

SHEET INDEX	
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1	TITLE SHEET
2	SITE DEVELOPMENT PLAN AND GRADING PLAN
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7	STORMWATER MANAGEMENT DETAILS AND NOTES
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SITE DEVELOPMENT PLAN

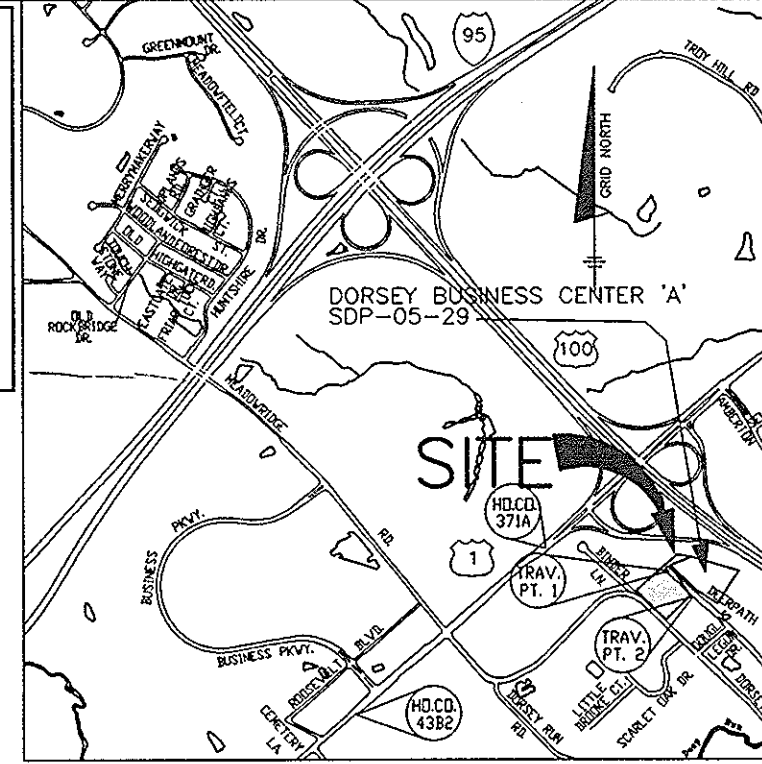
DORSEY BUSINESS CENTER, PARCEL 'A' AND DORSEY CENTER

PARCEL 'R', OVERFLOW PARKING LOT AND SWM FACILITY

1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

BENCH MARKS--(NAD'83)	
TRAV. PT. 1	EL: 157.73
TRV. MAG: 18.0' NORTHEAST OF CONC. CURVE OF SOUTHEASTBOUND LANE OF DEERPATH ROAD; 20.3' NORTH OF EX. INLET N 553,149.12	E 1,381,844.44
TRAV. PT. 2	EL: 154.64
TRV. MAG: 3.1' NORTHEAST OF CONC. CURVE OF SOUTHEASTBOUND LANE OF DEERPATH ROAD; 20.3' NORTH OF EX. INLET N 553,037.81	E 1,381,953.45



STORMWATER MANAGEMENT SUMMARY
 Stormwater Management for this site can be provided by use of a combination of a bio-retention facility to provide water quality volume and a dry detention pond to provide channel protection. Groundwater Recharge is being provided by use of a stone chamber under the bio-retention facility.

Water Quality Facility Summary

Facility	Type	Req.	Storage Volume	
			WQv	Rev
WQv #1	Bio-Retention and Stone Chamber	0.1676 AC-FT	0.022 AC-FT	
		0.1685 AC-FT	0.022 AC-FT	

Note: The water quality control and groundwater recharge is fully addressed with the bio-retention facility. The stone diaphragm and 20' grass filter strip have been used for pretreatment.

Channel Protection Facility Summary

Facility	Type	Req.	Storage Volume/Elevations
			Cpv
SWM #1	Dry Detention	0.2503 AC-FT	
		0.2613 AC-FT / @ 150.00'	

SWM #1	Water Surface Elevation in Facility	Pre-developed Discharge (cfs)	Post-developed Discharge (cfs)
1 - Year Storm	149.63'	1.32	1.14
10 - Year Storm	150.74'	6.35	9.72
100 - Year Storm	151.01'	11.65	17.45

Note: The stormwater management for this site has been designed to maintain the 1 year storms and safely pass the 10 and 100 year storms. As indicated above the post-developed discharge from the site is less than the existing for the 1 year storm.

Summary of General Storage Requirement Drainage Area # 1 - Subarea A

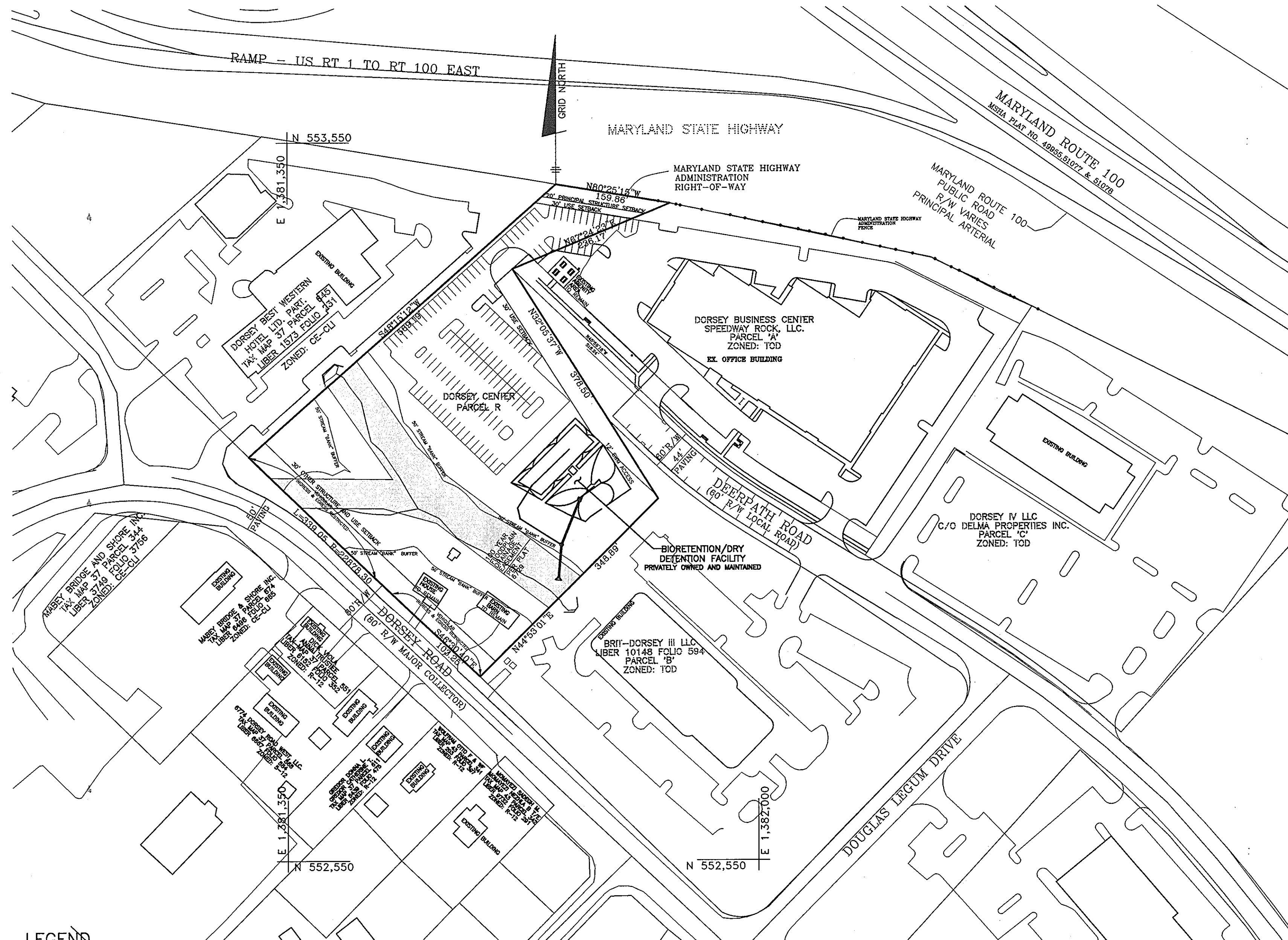
Step	Requirement	Volume Required (ac-ft)	Notes
1.	Water Quality Volume (WQv)	0.1386 ac-ft (or 6035.24cf)	Provided within a bioretention facility
2.	Recharge Volume (Rev)	0.0180 ac-ft (or 0.2254 acres)	Provided within a stone chamber located below the bioretention facility.
3.	Channel Protection Volume (Cpv)	0.2503 ac-ft (or 10901.78cf)	Provided within a dry detention facility
4.	Overbank Flood Protection Volume (Op)	N/A	Not required
5.	Extreme Flood Volume (Qf)	N/A	Not required

Summary of General Storage Requirement Drainage Area # 1 - Subarea B

Step	Requirement	Volume Required (ac-ft)	Notes
1.	Water Quality Volume (WQv)	0.0290 ac-ft (or 1266.87cf)	Provided within a bioretention facility within Subarea A
2.	Recharge Volume (Rev)	0.0037 ac-ft (or 0.0430 acres)	Provided within a stone chamber located below the bioretention facility within Subarea A
3.	Channel Protection Volume (Cpv)	N/A	Provided within a dry detention facility.
4.	Overbank Flood Protection Volume (Op)	N/A	Not required
5.	Extreme Flood Volume (Qf)	N/A	Extreme Flood volume control provided with dry detention facility.

Summary of General Storage Requirement Drainage Area # 2

Step	Requirement	Volume Required (ac-ft)	Notes
1.	Water Quality Volume (WQv)	N/A	No new impervious areas. Area remains undisturbed under this site development plan.
2.	Recharge Volume (Rev)	N/A	No new impervious areas. Area remains undisturbed under this site development plan.
3.	Channel Protection Volume (Cpv)	N/A	No new impervious areas. Area remains undisturbed under this site development plan.
4.	Overbank Flood Protection Volume (Op)	N/A	Not required.
5.	Extreme Flood Volume (Qf)	N/A	Not required.



- LEGEND**
- SOILS CLASSIFICATION: AbC1
 - SOILS DELINEATION: [Symbol]
 - EXISTING CONTOURS: [Symbol]
 - PROPOSED CONTOURS: [Symbol]
 - EXISTING WOODS LINE: [Symbol]
 - PROPOSED WOODS LINE: [Symbol]
 - EXISTING STRUCTURE: [Symbol]
 - PROPOSED STRUCTURE: [Symbol]
 - DRAINAGE AREA: [Symbol]
 - DRAINAGE DIVIDE: [Symbol]
 - LIMIT OF DISTURBANCE: [Symbol]
 - STABILIZED CONSTRUCTION ENTRANCE: [Symbol]
 - SUPER SILT FENCE: [Symbol]
 - INLET PROTECTION: [Symbol]

PLAN VIEW
SCALE: 1" = 100'

SITE ANALYSIS DATA/TABULATION

A) TOTAL PROJECT AREA TO INDICATE:	CONSTRUCTION ON PARCEL 'R' OF THE DORSEY CENTER AND ON A PORTION OF THE DORSEY BUSINESS CENTER, OVERFLOW PARKING LOT AND STORM WATER MANAGEMENT FACILITY
PARCEL R/ DORSEY CENTER:	4.26±AC.
PARCEL A/ DORSEY BUS. CENTER:	4.31±AC.
TOTAL:	8.57±AC.
B) AREA OF 100-YR. FLOODPLAIN:	0.75±AC.
C) AREA OF STEEP SLOPES:	N/A
D) NET AREA OF SITE(S):	3.51±AC.
E) NUMBER OF UNITS ALLOWED:	N/A
F) NUMBER OF RESIDENTIAL UNITS PROPOSED:	N/A
G) AREA OF PLAN SUBMISSION:	4.26±AC.
H) LIMIT OF DISTURBED AREA:	2.30±AC.
I) AMENITY AREA REQUIRED:	N/A
K) PRESENT ZONING DESIGNATION:	TOD
L) PROPOSED USES FOR THE SITE AND STRUCTURES:	
M) FLOOR SPACE ON EACH LEVEL OF BUILDING:	N/A
N) MINIMUM LOT SIZE REQUIRED:	N/A
O) NUMBER OF PARKING SPACES REQUIRED BY ZONING REGULATIONS AND/OR FDP CRITERIA:	188
P) TOTAL NUMBER OF PARKING SPACES PROVIDED: PARCEL R/DORSEY CENTER-OVERFLOW: 128	
PARCEL A/DORSEY BUS. CENTER/EXISTING: 188(INCLUDED HANDICAPPED)	
SPACES LOST DUE TO CONNECTION: 4	
TOTAL:	314
R) BUILDING COVERAGE AREA(PAR. R/DORSEY CENTER): 1.06 AC. ±25% (PAVING COVERAGE)	

GENERAL NOTES CONTINUED

29. A DESIGN MANUAL WAIVER REQUEST TO DMV I, CHAPTER 5, SECTION 5.2.7.8.2 TO ALLOW FOR THE USE OF 1-1/8" DIAMETER LOW FLOW ORIFICE IN LIEU OF THE 1-1/2" DIAMETER MINIMUM WAS APPROVED ON OCTOBER 4, 2006.

- GENERAL NOTES**
- THE SUBJECT PROPERTY IS ZONED TOD PER THE 2/02/04 COMPREHENSIVE ZONING PLAN AND COMP LITE ZONING AMENDMENTS EFFECTIVE JULY 28, 2006.
 - THERE IS A FLOODPLAIN ON THIS SITE AND IS SHOWN AS RECORDED PER PLAT 6729.
 - THERE ARE NO WETLANDS ON THIS SITE. THIS IS BASED ON THE WETLAND STUDY PROVIDED BY HILLS-CARNES ENGINEERING ASSOCIATES, INC. DATED JULY 12, 2004.
 - ALL LANDSCAPING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL AND SECTION 16.124 OF THE SUBDIVISION REGULATIONS.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$15,900 SHALL BE POSTED AS PART OF THE DEVELOPERS AGREEMENT UNDER THIS SDP FOR THE REQUIRED LANDSCAPING FOR 35 SHADE TREES, 26 PINE TREES AND 50 SHRUBS PER THE COUNTY FEE.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" @ 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - THE CONTOURS SHOWN HEREON HAVE BEEN TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEYS AT 2' INTERVALS PREPARED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JUNE, 2006.
 - VERTICAL CONTROL AND HORIZONTAL CONTROL BASED UPON HOWARD COUNTY NAD '83 CONTROL.
 - THIS PROPERTY IS WITHIN THE METROPOLITAN WATER AND SEWER DISTRICT.
 - WATER AND SEWER SERVICE FOR THIS SUBDIVISION IS PUBLIC. THE PUBLIC SEWER IS PROVIDED BY CONTRACT 14-1521-D. THE PUBLIC WATER IS PROVIDED BY CONTRACT 14-1447-D. THIS SUBDIVISION FALLS WITHIN THE PATAPSCO DRAINAGE AREA.
 - STORMWATER MANAGEMENT QUANTITY CONTROL FOR THIS SITE IS PROVIDED BY A DRY DETENTION FACILITY. STORMWATER MANAGEMENT QUALITY CONTROL IS BEING PROVIDED BY BIORETENTION FACILITY WITH STONE CHAMBER AND 20' GRASS FILTER STRIP. GROUNDWATER RECHARGE IS BEING PROVIDED WITHIN A STONE CHAMBER LOCATED BELOW THE BIORETENTION FACILITY. THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED. REFER TO THE SWM REPORT PROVIDED BY BENCHMARK ENGINEERING, INC DATED AUGUST 2006 SUBMITTED HERewith.
 - NO ADDITIONAL ADEQUATE FACILITIES WILL BE REQUIRED FOR THIS PROJECT BASED ON THIS DEVELOPMENT BEING A PARKING LOT NOT PRODUCING ADDITIONAL TRIPS OTHER THAN THOSE DETERMINED FOR THE DEVELOPMENT OF DORSEY BUSINESS CENTER PARCEL 'A' (SDP-05-29).
 - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ALL PROPOSED EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ALL ADJACENT PUBLIC ROADS AND RESIDENTIAL ZONING DISTRICTS IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 - EXISTING UTILITIES SHOWN WERE LOCATED BY RECORD DRAWINGS AND FIELD LOCATIONS.
 - UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
 - CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL ADJUST ALL UTILITIES AND RIM ELEVATIONS AS NEEDED TO MATCH THIS PLAN.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE.
 - TO THE BEST OF OUR KNOWLEDGE THERE ARE NO CEMETERY LOCATIONS ON-SITE.
 - ALL EXISTING STRUCTURES ARE TO REMAIN AT THIS TIME. THE EXISTING STRUCTURES WERE BUILT IN THE 1960'S AND ARE LISTED ON THE HOWARD COUNTY HISTORIC REGISTRY AS THE BINDER FARM.
 - THIS PLAN CONFORMS TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION REGULATIONS. PER COUNCIL BILL NO. 45-2003 EFFECTIVE 10/2/03. DEVELOPMENT OR CONSTRUCTION ON THIS PARCEL MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN WAIVER PETITION APPLICATION, OR BUILDING PERMIT.
 - THE BOUNDARY SHOWN HEREON IS TAKEN FROM THE BOUNDARY SURVEY PREPARED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JUNE, 2006.
 - PREVIOUS DEPARTMENT OF PLANNING AND ZONING REFERENCE NUMBERS INCLUDE: SDP-05-29, F-86-109 & F-07-80.
 - THE FOREST CONSERVATION ACT REQUIREMENTS FOR 1.09 ACRES OF REQUIRED REFORESTATION WILL BE MET THROUGH THE PAYMENT OF A FEE-IN-LIEU. THE COST OF THIS FEE WILL BE \$35,610.30(\$4,400 X 75%).
 - THERE SHALL BE NO DISTURBANCE WITHIN THE 100-YR FLOODPLAIN, WETLANDS, STREAMS, OR THEIR BUFFERS EXCEPT FOR THE DISTURBANCES TO THE FLOODPLAIN, STREAM AND STREAM BUFFER IN THE AREA OF THE OUTFALL OF SWM FACILITY. THESE AREAS HAVE BEEN DEEMED AS NECESSARY DISTURBANCES BY DPZ AND HSCD IN ACCORDANCE WITH SECTION 16.116(C) OF THE SUBDIVISION REGULATIONS IN ORDER TO DISCHARGE INTO SLOPES LESS THAN 10%. AN MDE PERMIT REQUEST HAS BEEN SUBMITTED AND RESPONDED TO UNDER MDE PERMIT NO. 200667271/06-NT-3378.
 - BASED ON SDP-05-29 THE SUBJECT PARCEL UNDER THE SITE DEVELOPMENT PLAN IS LOCATED OUTSIDE THE BOUNDARIES OF THE 1998 BALTIMORE/WASHINGTON INTERNATIONAL AIRPORT (BW), AIRPORT NOISE ZONE AS WELL AS THE FOUR-MILE RADIUS OF BW AIRPORT. THEREFORE NO APPROVAL FROM THE MARYLAND AVIATION ADMINISTRATION IS REQUIRED.
 - THE DISTURBANCE TO THE 100-YEAR FLOODPLAIN, STREAM AND STREAM BUFFER ON THE SOUTHEASTERN PORTION OF THE SITE IS NECESSARY TO PROVIDE A NON-EROSIVE OUTFALL FOR THE STORMWATER MANAGEMENT FACILITY. THE SITE IS TRISected BY A STREAM THAT PRESENTS NO POSSIBLE DISCHARGE POINT THAT IS ON A 10% SLOPE C° LESS. A JOINT FEDERAL/STATE APPLICATION FOR THE ALTERATION OF ANY FLOODPLAIN, WATERWAY, TIDAL OR NONTIDAL WETLAND IN MARYLAND HAS BEEN SUBMITTED (TRACKING NO 200667271-NT-3378)
 - A CROSS-EASEMENT AGREEMENT FOR VEHICULAR INGRESS/EGRESS FROM PARCEL 'R' DORSEY CENTER THROUGH PARCEL 'A' DORSEY BUSINESS CENTER HAS BEEN RECORDED AS LIBER12445 FOLIO 683 ON 01-01-07.
 - THE PROPOSED STORMWATER MANAGEMENT FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED.
 - THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 317A AND 4382 WERE USED FOR THIS PROJECT.
 - THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP, INC., DATED JULY 2004 AND WAS APPROVED ON APRIL 4, 2005.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cindy H. Hume 9/19/07
 CHIEF, DIVISION OF LAND DEVELOPMENT

Mark A. Lepp 10/25/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Mark A. Lepp 10/25/07
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING

BENCHMARK
 ENGINEERS & LAND SURVEYORS & PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644
 www.bei-civilengineering.com

OWNER: MARK LEVY BINDER ROCK, LLC 7111 DORSEY RY ROAD SUITE 101 ELKRDGE, MARYLAND 21075 410.526.4030

DEVELOPER: MARK LEVY H & H ROCK COMPANIES 8800 DEERPATH ROAD SUITE 100 ELKRDGE, MARYLAND 21075 410.579.2242

PROJECT: DORSEY BUSINESS CENTER, PARCEL 'A' AND DORSEY CENTER PARCEL 'R', OVERFLOW PARKING LOT AND SWM FACILITY

LOCATION: TAX MAP 37 PARCEL 375 - GRID 24 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

DATE: AUGUST 2006 AUGUST 2007 PROJECT NO. 1959

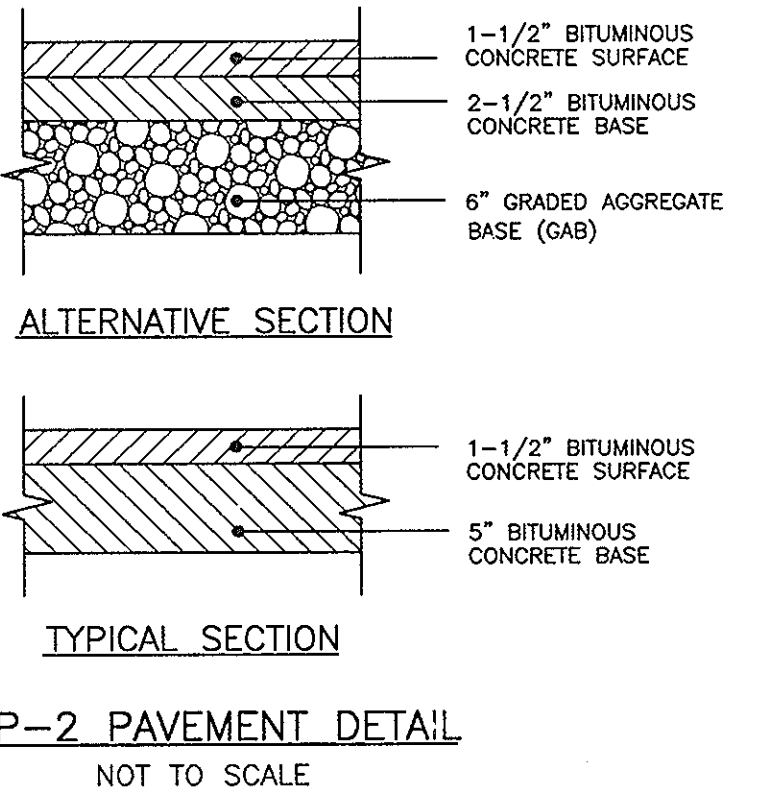
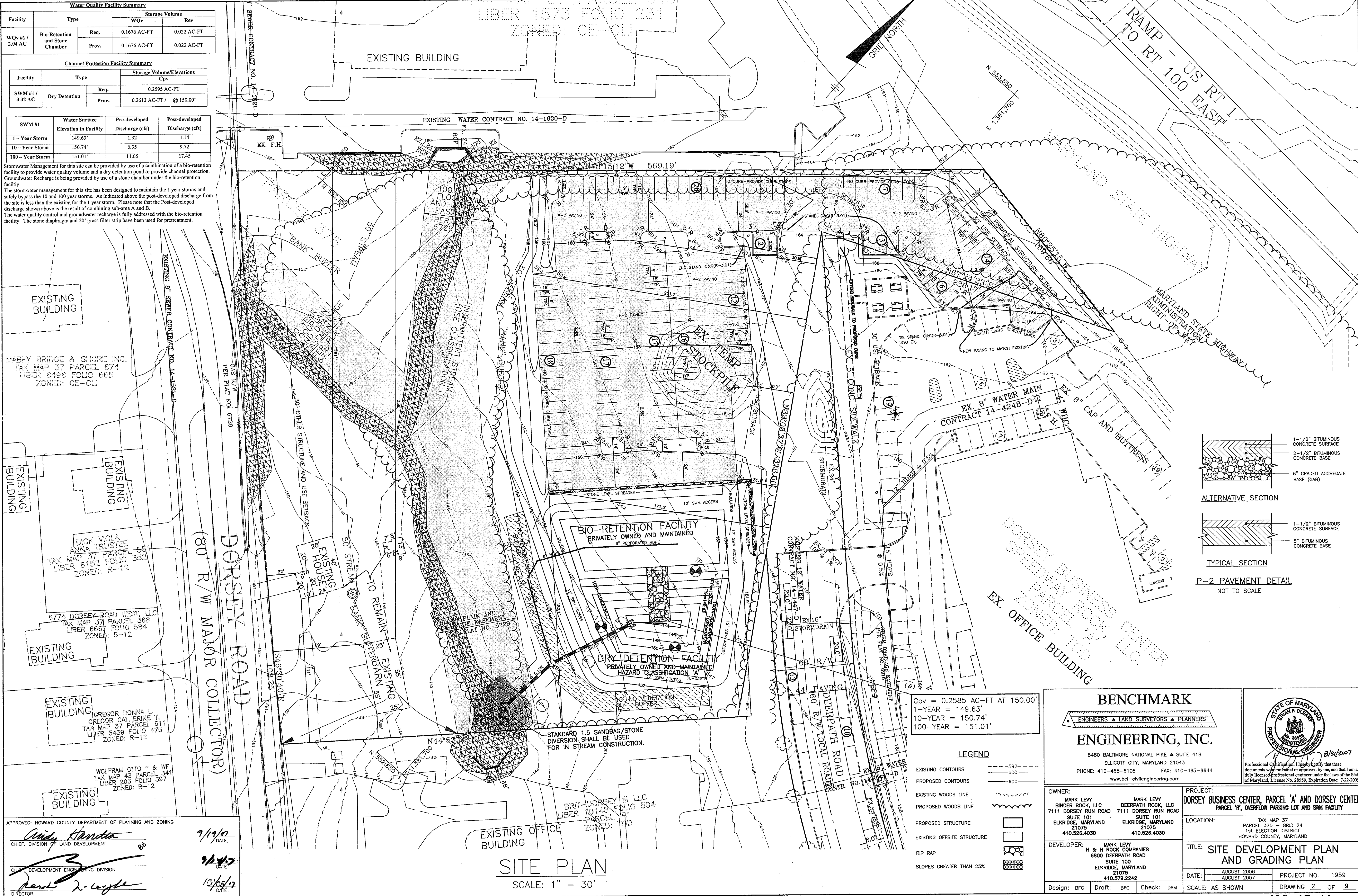
Design: BFC Draft: BFC Check: DAM SCALE: AS SHOWN DRAWING 1 OF 9

Water Quality Facility Summary				
Facility	Type	Storage Volume		
		WQv	Rev	
WQv #1 / 2.04 AC	Bio-Retention and Stone Chamber	Req. 0.1676 AC-FT	0.1676 AC-FT	0.022 AC-FT
		Prov. 0.1676 AC-FT	0.022 AC-FT	

Channel Protection Facility Summary			
Facility	Type	Storage Volume/Elevations	
		Req.	Cpv
SWM #1 / 3.32 AC	Dry Detention	0.2595 AC-FT	
		0.2613 AC-FT / @ 150.00'	

SWM #1	Water Surface Elevation in Facility	Pre-developed Discharge (cfs)	Post-developed Discharge (cfs)
1-Year Storm	149.63'	1.32	1.14
10-Year Storm	150.74'	6.35	9.72
100-Year Storm	151.01'	11.65	17.45

Stormwater Management for this site can be provided by use of a combination of a bio-retention facility to provide water quality volume and a dry detention pond to provide channel protection. Groundwater recharge is being provided by use of a stone chamber under the bio-retention facility. The stormwater management for this site has been designed to maintain the 1 year storms and safely bypass the 10 and 100 year storms. As indicated above the post-developed discharge from the site is less than the existing for the 1 year storm. Please note that the Post-developed discharge shown above is the result of combining sub-area A and B. The water quality control and groundwater recharge is fully addressed with the bio-retention facility. The stone diaphragm and 20' grass filter strip have been used for pretreatment.



Cpv = 0.2585 AC-FT AT 150.00'
 1-YEAR = 149.63'
 10-YEAR = 150.74'
 100-YEAR = 151.01'

LEGEND	
EXISTING CONTOURS	---582---
PROPOSED CONTOURS	---600---
EXISTING WOODS LINE	~~~~~
PROPOSED WOODS LINE	~~~~~
PROPOSED STRUCTURE	[Solid Box]
EXISTING OFFSITE STRUCTURE	[Dashed Box]
RIP RAP	[Cross-hatch]
SLOPES GREATER THAN 25%	[Diagonal Lines]

BENCHMARK
 ENGINEERS • LAND SURVEYORS • PLANNERS

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8480 BALTIMORE NATIONAL PIKE • SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-8644
 www.bel-civilengineering.com

OWNER:
 MARK LEVY
 BINDER ROCK, LLC
 7111 DORSEY RUN ROAD
 SUITE 101
 ELKRDGE, MARYLAND 21075
 410.526.4030

DEVELOPER:
 MARK LEVY
 H & H ROCK COMPANIES
 6800 DEERPATH ROAD
 SUITE 100
 ELKRDGE, MARYLAND 21075
 410.579.2242

PROJECT:
 DORSEY BUSINESS CENTER, PARCEL 'A' AND DORSEY CENTER PARCEL 'R', OVERFLOW PARKING LOT AND SWIM FACILITY

LOCATION:
 TAX MAP 37
 PARCEL 375 - GRID 24
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE:
 SITE DEVELOPMENT PLAN
 AND GRADING PLAN

DATE:
 AUGUST 2006
 AUGUST 2007

PROJECT NO.: 1959

SCALE: AS SHOWN

DRAWING: 2 OF 9

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Andy Hamilton
 CHIEF, DIVISION OF LAND DEVELOPMENT

David D. Wolfe
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 9/19/06
 DATE: 9/19/06
 DATE: 10/25/07

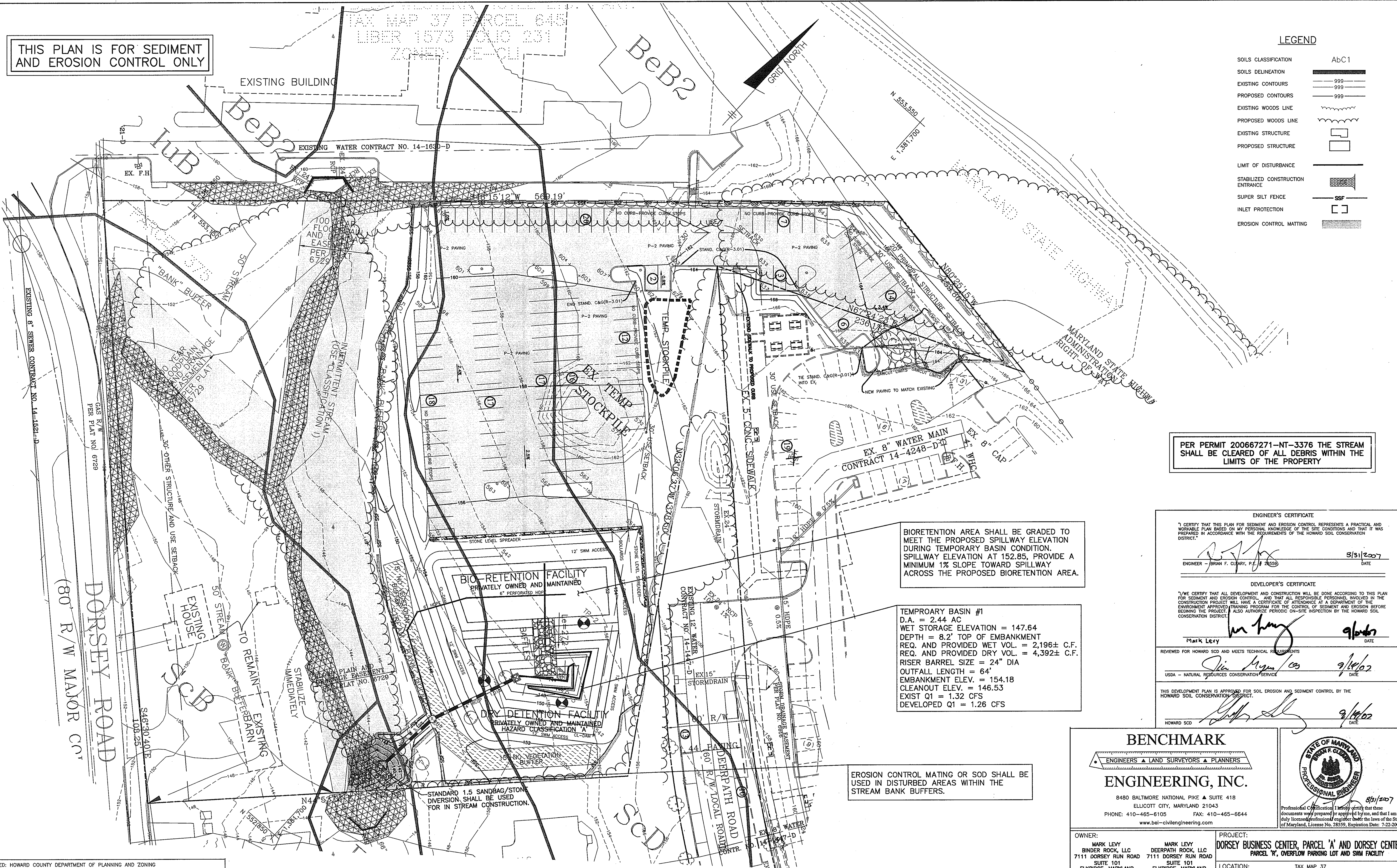
SITE PLAN
 SCALE: 1" = 30'

THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL ONLY

TAX MAP 37 PARCEL 645
LIBER 1573 PLAT 231
ZONED BeB2

LEGEND

- SOILS CLASSIFICATION AbC1
- SOILS DELINEATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- INLET PROTECTION
- EROSION CONTROL MATING



PER PERMIT 200667271-NT-3376 THE STREAM SHALL BE CLEARED OF ALL DEBRIS WITHIN THE LIMITS OF THE PROPERTY

BIORETENTION AREA SHALL BE GRADED TO MEET THE PROPOSED SPILLWAY ELEVATION DURING TEMPORARY BASIN CONDITION. SPILLWAY ELEVATION AT 152.85, PROVIDE A MINIMUM 1% SLOPE TOWARD SPILLWAY ACROSS THE PROPOSED BIORETENTION AREA.

TEMPORARY BASIN #1
D.A. = 2.44 AC
WET STORAGE ELEVATION = 147.64
DEPTH = 8.2' TOP OF EMBANKMENT
REQ. AND PROVIDED WET VOL. = 2,196± C.F.
REQ. AND PROVIDED DRY VOL. = 4,392± C.F.
RISER BARREL SIZE = 24" DIA
OUTFALL LENGTH = 64'
EMBANKMENT ELEV. = 154.18
CLEANOUT ELEV. = 146.53
EXIST Q1 = 1.32 CFS
DEVELOPED Q1 = 1.26 CFS

EROSION CONTROL MATING OR SOD SHALL BE USED IN DISTURBED AREAS WITHIN THE STREAM BANK BUFFERS.

ENGINEER'S CERTIFICATE

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

ENGINEER - BRIAN F. CLARY, P.E. 8/31/2007 DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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."

Mark Levy 9/14/07 DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USA - NATURAL RESOURCES CONSERVATION SERVICE 9/14/07 DATE

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

HOWARD SCD 9/14/07 DATE

BENCHMARK ENGINEERING, INC.

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ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644
www.bei-civilengineering.com

Professional Certification: I hereby certify that these documents were prepared by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2009

OWNER: MARK LEVY, BINDER ROCK, LLC, 7111 DORSEY RUN ROAD, SUITE 101, ELKRIDGE, MARYLAND 21075, 410.526.4030

MARK LEVY, DEERPATH ROCK, LLC, 7111 DORSEY RUN ROAD, SUITE 101, ELKRIDGE, MARYLAND 21075, 410.526.4030

PROJECT: DORSEY BUSINESS CENTER, PARCEL 'A' AND DORSEY CENTER PARCEL 'R', OVERFLOW PARKING LOT AND SWM FACILITY

LOCATION: TAX MAP 37, PARCEL 375 - GRID 24, 1st ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

DEVELOPER: H & H ROCK COMPANIES, 6800 DEERPATH ROAD, SUITE 100, ELKRIDGE, MARYLAND 21075, 410.579.2242

TITLE: SEDIMENT AND EROSION CONTROL PLAN AND SOILS MAP

DATE: AUGUST 2006, AUGUST 2007

PROJECT NO. 1959

Design: BFC Draft: BFC Check: DAM SCALE: AS SHOWN DRAWING 3 OF 9

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

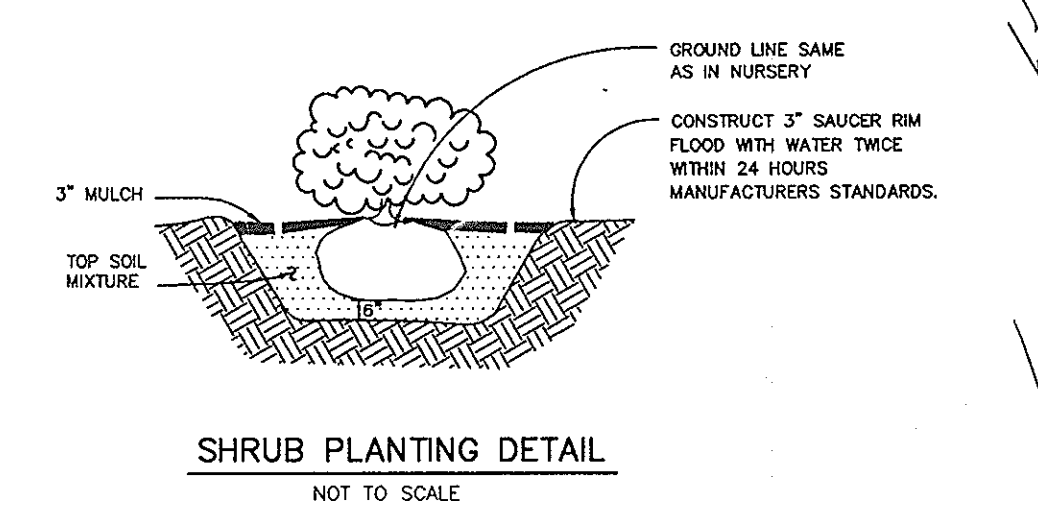
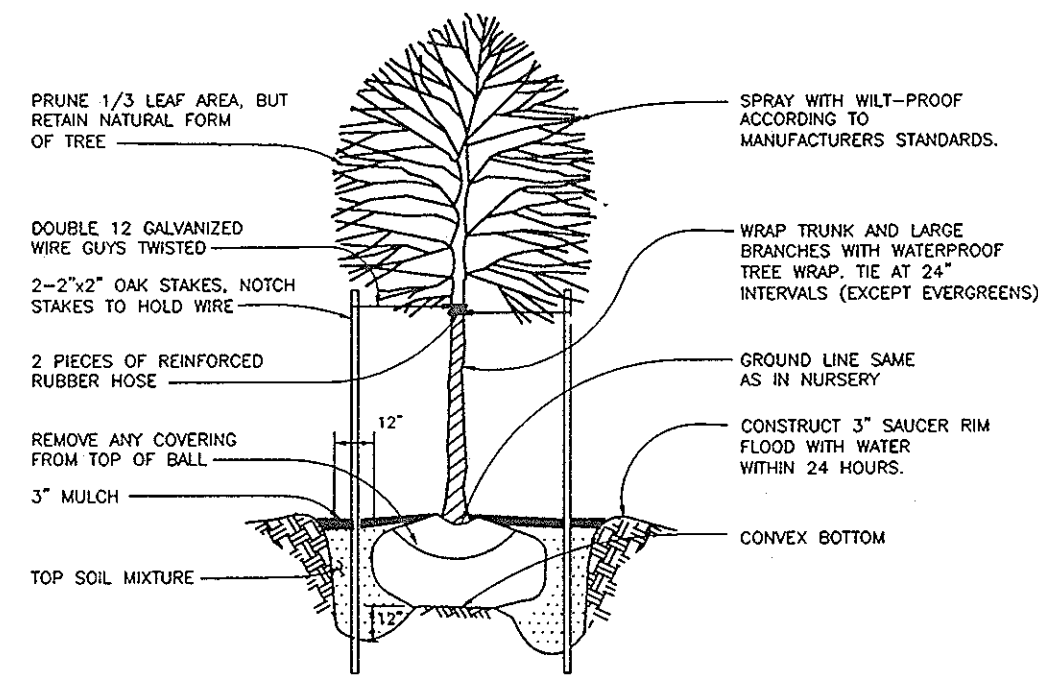
9/14/07 DATE

9/14/07 DATE

10/05/07 DATE

SITE PLAN
SCALE: 1" = 30'

SYMBOL	HYDRIC	HYDROLOGIC GROUP	SOILS CHART NAME
BeB2	YES	C	BELTSVILLE SILT LOAM, 1 TO 5 PERCENT SLOPES, MODERATELY ERODED
Em	YES	D	ELKTON SILT LOAM
tlB	YES	C	ILKA LOAM, LOCAL ALLUVIUM, 1 TO 5 PERCENT SLOPES
ScB		C	SANDY AND CLAYEY LAND, GENTLY SLOPING
ScD		C	SANDY AND CLAYEY LAND, MODERATELY ERODED



LANDSCAPING NOTES:

- TREES MUST BE A MINIMUM OF FOUR(4) FEET FROM THE CURB OR SIDEWALK AND MUST BE A MINIMUM OF FIVE(5) FEET FROM ANY STORM DRAIN.
- A MINIMUM DISTANCE OF TWENTY(20) FEET MUST BE MAINTAINED BETWEEN ANY TREES LOCATED ALONG THE CURB LINE AND ANY STREET LIGHTS.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$15,000 SHALL BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT UNDER THIS SPP FOR THE REQUIRED LANDSCAPING FOR 35 SHADE TREES, 26 PINE TREES AND 50 SHRUBS PER THE COUNTY FEE.
- AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.

SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING

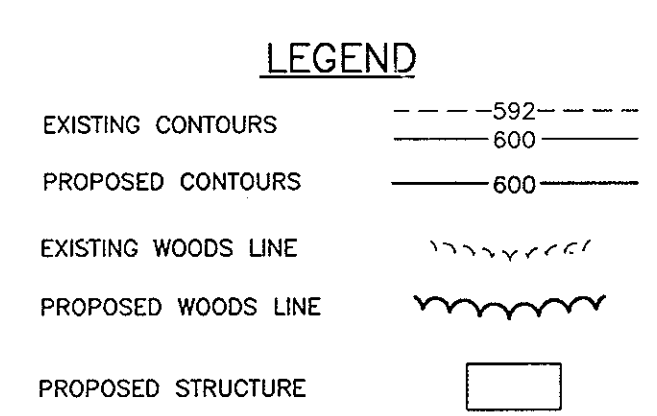
NUMBER OF PARKING SPACES:	133
NUMBER OF TREES/LS-ISLES REQUIRED:	7
NUMBER OF TREES PROVIDED:	7
SHADE TREES	-
OTHER TREES (2:1 SUBSTITUTION)	-
SHRUBS (10:1 SUBSTITUTION)	-

PARKING LOT INTERNAL PLANTING LIST

SYMBOL	QUANTITY	NAME	REMARKS
	7	Tilia cordata 'GreenSpire' (GREENSPIRE LITTLELEAF LINDEN)	2-1/2" TO 3" CALIPER B & B FULL HEAD

SCHEDULE D SWM AREA LANDSCAPING

LINEAR FEET OF PERIMETER	FACILITY
597	597
0	0
597	597
19	19
12/12	12/12
15/15	15/15
NO	NO
NO	NO



DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

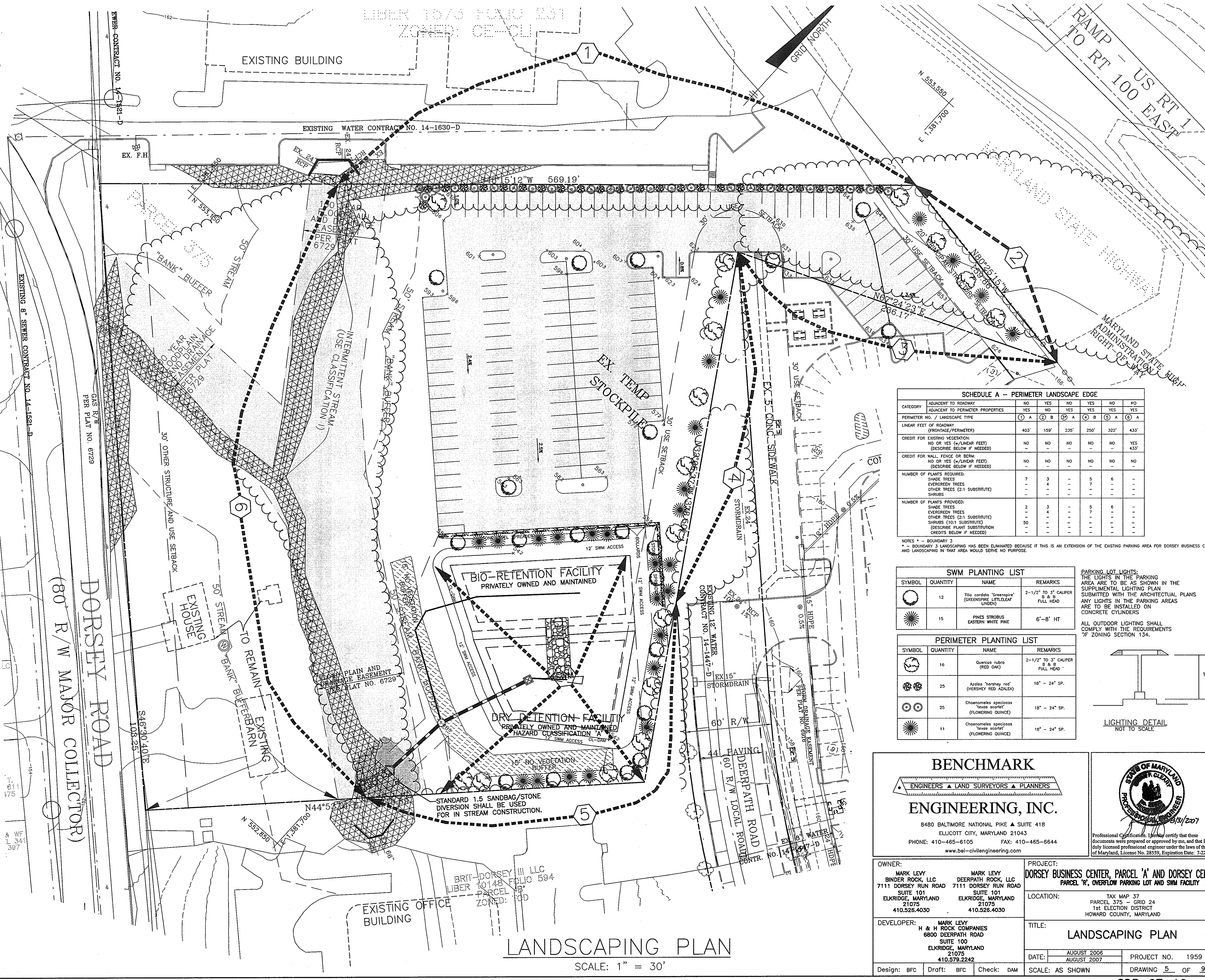
DEVELOPER: *Mark Levy* DATE: *7/16/07*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT: *Candy Hand* DATE: *7/17/07*

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *Mark P. Wynn* DATE: *10/25/07*

DIRECTOR: _____ DATE: _____



SCHEDULE A - PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAY		ADJACENT TO PERMETER PROPERTIES		ADJACENT TO PERMETER PROPERTIES	
	NO	YES	NO	YES	NO	YES
PERIMETER NO. / LANDSCAPE TYPE	1 A	2 B	3 A	4 B	5 A	6 A
LINEAR FEET OF ROADWAY (FRONTAGE/PERIMETER)	403'	159'	235'	250'	322'	433'
CREDIT FOR EXISTING VEGETATION (NO OR YES (4-LINEAR FEET) (DESCRIBE BELOW IF NEEDED))	NO	NO	NO	NO	NO	YES
CREDIT FOR WALL, FENCE OR BERM (NO OR YES (4-LINEAR FEET) (DESCRIBE BELOW IF NEEDED))	NO	NO	NO	NO	NO	NO
NUMBER OF PLANTS PROVIDED:						
SHADE TREES	7	4	-	5	6	-
EVERGREEN TREES	-	4	-	-	-	-
OTHER TREES (2:1 SUBSTITUTION)	-	4	-	-	-	-
SHRUBS	-	-	-	-	-	-
NUMBER OF PLANTS PROVIDED:						
SHADE TREES	2	3	-	5	6	-
EVERGREEN TREES	-	4	-	-	-	-
OTHER TREES (2:1 SUBSTITUTION)	-	-	-	-	-	-
SHRUBS (10:1 SUBSTITUTION)	50	-	-	-	-	-

NOTES: - BOUNDARY 3
* - BOUNDARY 3 LANDSCAPING HAS BEEN ELIMINATED BECAUSE IT IS AN EXTENSION OF THE EXISTING PARKING AREA FOR DORSEY BUSINESS CENTER AND LANDSCAPING IN THAT AREA WOULD SERVE NO PURPOSE.

SWM PLANTING LIST

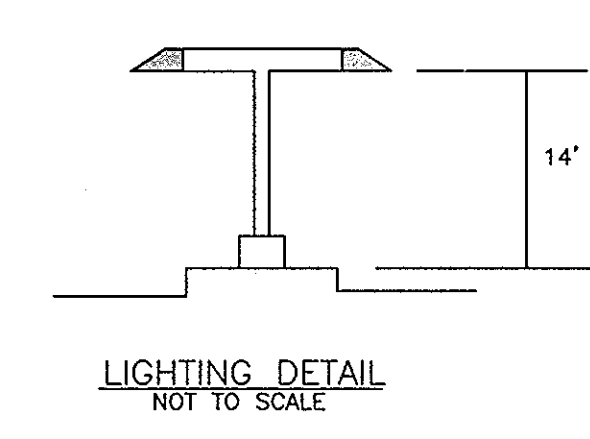
SYMBOL	QUANTITY	NAME	REMARKS
	12	Tilia cordata 'GreenSpire' (GREENSPIRE LITTLELEAF LINDEN)	2-1/2" TO 3" CALIPER B & B FULL HEAD
	15	Pinus strobus (PINES)	6'-8" HT

PERIMETER PLANTING LIST

SYMBOL	QUANTITY	NAME	REMARKS
	16	Quercus rubra (RED OAK)	2-1/2" TO 3" CALIPER B & B FULL HEAD
	25	Azalea 'hershey red' (HERSHEY RED AZALEA)	18" - 24" SP.
	25	Chochoemalis speciosus 'lewis scottii' (FLOWERING QUINCE)	18" - 24" SP.
	11	Chochoemalis speciosus 'lewis scottii' (FLOWERING QUINCE)	18" - 24" SP.

PARKING LOT LIGHTS:
THE LIGHTS IN THE PARKING AREA ARE TO BE AS SHOWN IN THE SUPPLEMENTAL LIGHTING PLAN SUBMITTED WITH THE ARCHITECTURAL PLANS. ANY LIGHTS IN THE PARKING AREAS ARE TO BE INSTALLED ON CONCRETE COLUMNS.

ALL OUTDOOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.



BENCHMARK ENGINEERS, LAND SURVEYORS, PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644
www.bei-civilengineering.com

OWNER: MARK LEVY BINDER ROCK, LLC 7111 DORSEY RUN ROAD SUITE 101 ELKRIDGE, MARYLAND 21075 410.528.4030

DEVELOPER: H & H ROCK COMPANIES 6800 DEERPATH ROAD SUITE 100 ELKRIDGE, MARYLAND 21075 410.579.2242

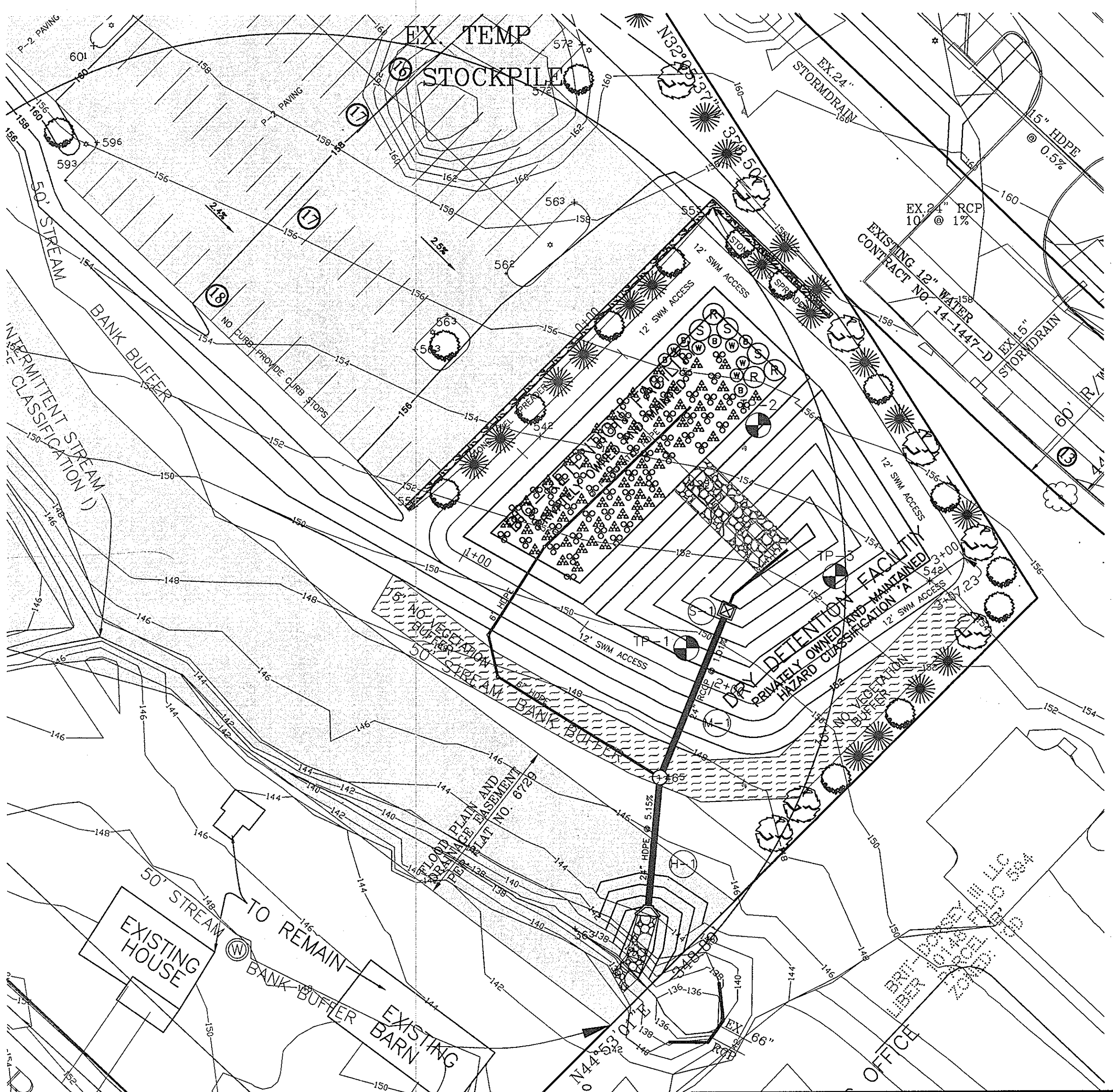
PROJECT: DORSEY BUSINESS CENTER, PARCEL 'A' AND DORSEY CENTER PARCEL 'R', OVERFLOW PARKING LOT AND SWM FACILITY

LOCATION: TAX MAP 37 PARCEL 375 - GRID 24 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: LANDSCAPING PLAN

DATE: AUGUST 2006 / AUGUST 2007 PROJECT NO. 1959

Design: BFC Draft: BFC Check: DAM SCALE: AS SHOWN DRAWING 5 OF 9



SWMF PLANTING LIST

SYMBOL	QUANTITY	NAME	REMARKS
(R)	3	ACER RUBRUM "RED MAPLE"	1-1/2" - 2" CAL
(S)	3	PLATANUS OCCIDENTALIS "SYCAMORE"	1-1/2" - 2" CAL
(B)	4	MYRICA PENNSYLVANICA "BAYBERRY"	2" - 2-1/2" HT.
(W)	5	VIBURNUM DENTATUM "BURNING BUSH"	2-1/2" - 3" HT.
(OO)	50	PANICUM VIRGATUM "SWITCHGRASS"	
(AA)	50	SCIRPUS PUNGENS "THREE SQUARE BULKRUSH"	

IN-SITU INFILTRATION

BORING NO.	DEPTH OF TEST (IN.)	MEASURED RATE (IN./HR.)
B-1	12.0'	0.375
B-2	12.0'	-
B-3	11.4'	-

SWMF - LANDSCAPE DATA

HYDROLOGIC ZONE 3 - REGULARLY INUNDATED SHORELINE FRINGE (HIGH MARSH)

HYDROLOGIC CONDITION - 0' TO 1'-0" DEEP HARDINESS - TEMPERATE ZONE 6b (-5' TO 0') SEE SHEET - FOR SEQUENCE OF CONSTRUCTION

NOTE: REFER TO MDE 2000 MD STORMWATER DESIGN MANUAL VOLUMES 1 & 2 FOR LANDSCAPE CONTRACTOR RESPONSIBILITIES, PRACTICES AND MAINTENANCE DUTIES

TOTAL Q_{WQ} AND Rev PROVIDED WITHIN BIORETENTION

STEP	REQUIREMENT	VOLUME REQUIRED (AC.-FT.)	NOTES
1	WATER QUALITY VOLUME (WQv)	0.1676 AC-FT	BIO-RETENTION FACILITY (F-6)
2	RECHARGE VOLUME (Rev)	0.022 AC-FT	PROVIDED WITHIN STONE CHAMBER UNDER BIORETENTION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature]
 DATE: 9/14/07

CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature]
 DATE: 10/05/07

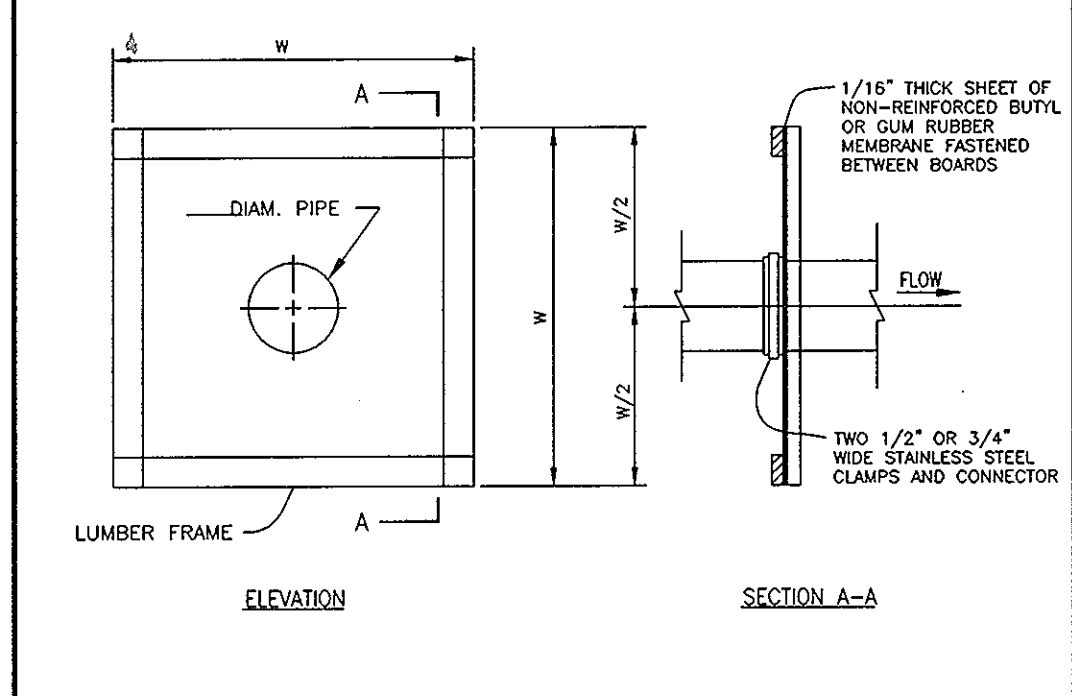


TABLE OF QUANTITIES (PER COLLAR)

W/ FEET	RUBBER SQ. FT.	STAINLESS STEEL CLAMPS	LUMBER LIN. FT.
3	4	2	12
4	16	2	16
5	25	2	20
6	36	2	24

NUMBER OF ANTISEEP COLLARS REQUIRED =

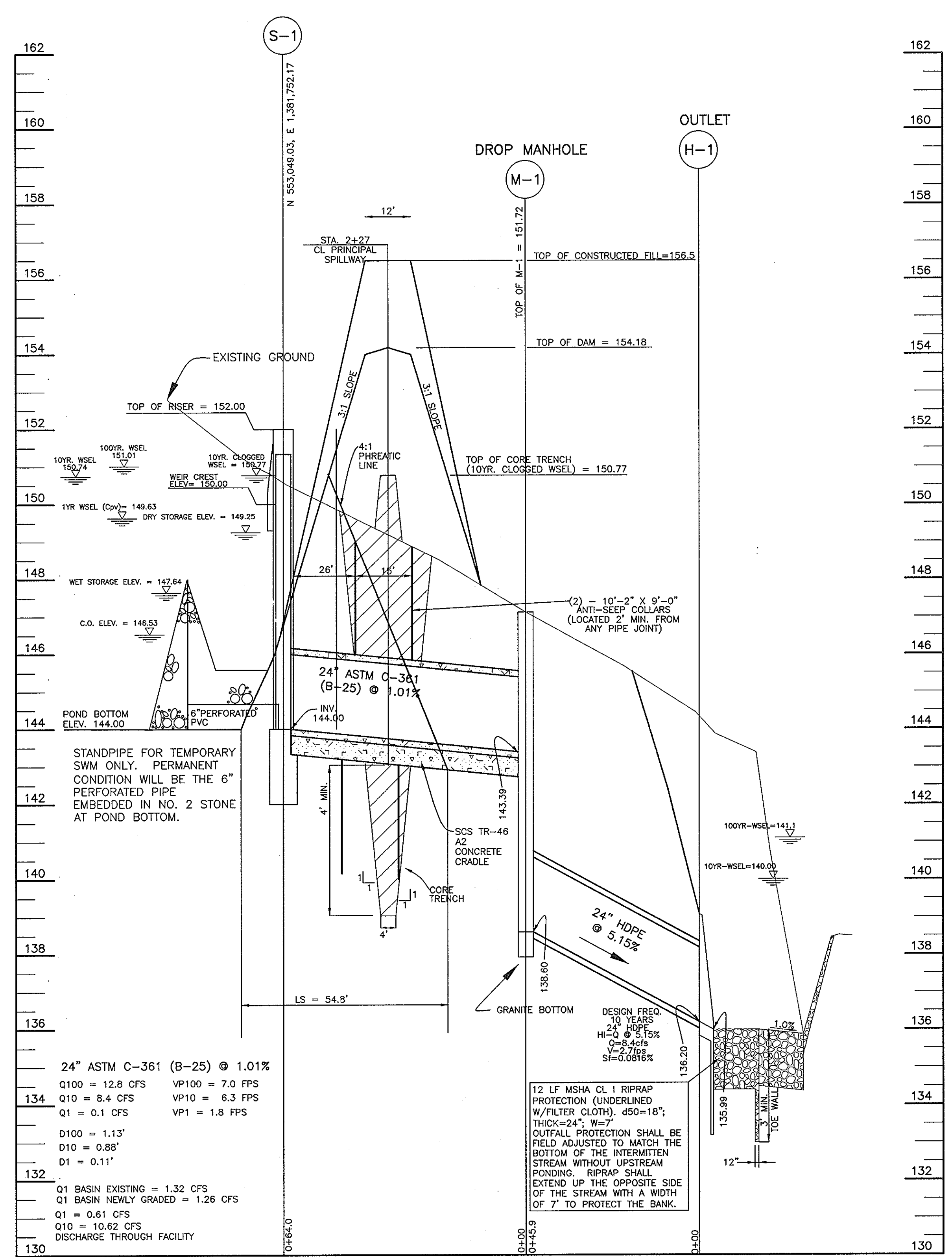
NOTES:

- CUT A HOLE (CENTERED) IN THE RUBBER MEMBRANE APPROXIMATELY 1/2 THE DIAMETER OF THE PIPE.
- FORCE THE RUBBER MEMBRANE OVER THE UPSTREAM END OF THE PIPE.
- INSTALL THE STAINLESS STEEL CLAMPS AROUND THE PIPE, OVER THE RUBBER MEMBRANE, AND TIGHTEN. THE COMPLETED INSTALLATION MUST BE WATER-TIGHT.
- STAPLE THE RUBBER MEMBRANE TO THE LUMBER FRAME.
- THE WOOD FRAME SHALL BE CONSTRUCTED FROM EITHER 1" x 4" OR 2" x 2" LUMBER AND SHALL BE RIGID ENOUGH TO WITHSTAND BACKFILL OPERATIONS.

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	HO. CO. STD.
H-1	TYPE 'A'	N 552,943.91, E 1,381,724.32	136.08	135.87	138.92	SD-5.01 W/GRANITE BOTTOM
M-1	4"	N 552,989.61, E 1,381,728.39	143.39, 139.32	139.12	139.38	SD-5.11

1) STRUCTURE ELEVATION AND LOCATION FOR MANHOLES IS AT THE TOP AND CENTER OF RIM.
 2) STRUCTURE ELEVATION AND LOCATION FOR HEADWALLS IS AT THE INVERT WHERE PIPE JOINS WALL.



SECTION THRU PRINCIPAL SPILLWAY
 SCALE: 1"=20' HORIZ., 1"=2' VERT.

OPERATION & MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS

- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH-OUT. ANY REPLACEMENT OF MULCH SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE & INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL & PRUNING.
- SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN THE SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD & DISEASED VEGETATION CONSIDERED BEYOND TREATMENT; TREATMENT OF ALL DISEASED TREES & SHRUBS; AND REPLACEMENT OF ALL DEFICIENT STAKES & WIRES.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE THE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS-NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

TABLE B.3.2 MATERIALS AND SPECIFICATIONS FOR BIO-RETENTION

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS (IF REQUIRED)	SEE APPENDIX A, TABLE A.4	N/A	PLANTINGS ARE SITE SPECIFIC
PLANTING SOIL (2.0' TO 4.0' DEEP)	SAND: 35-40% SILT: 30-35% CLAY: 10-25%	N/A	USDA SOIL TYPES: LOAMY SAND, SANDY LOAM OR LOAM
MULCH	SHREDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM
PEA GRAVEL DIAPHRAGM AND CURTAIN DRAIN	PEA GRAVEL: ASTM D-448 ORNAMENTAL STONE: WASHED CORNICES: 2" TO 5"	N/A	
GEOTECHILE (CLASS "C")	APPARENT OPENING SIZE: (ASTM D-4751) PLUCTURE RESISTANCE: (ASTM D-4833) ASHTO M-43	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY
UNDERDRAIN GRAVEL UNDERDRAIN PIPING	75% TYPE PS28 OR ASHTO M-278	0.375" TO 0.750" 4" TO 6" RIGID SCK40 PVC OR SORBE	3/8" PERFOR. @ 4" O.C. 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES, NOT NECESSARY UNDERNEATH PIPES
POURED-IN-PLACE CONC. (IF REQUIRED)	MSHA MIX NO. 3, F-450008 @ 28 DAYS. NORMAL WEIGHT, AIR ENTRAINED; REINFORCING TO MEET ASTM 615-60	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONC. REQUIRED: 28 DAY STRENGTH TEST AND SLUMP TEST; ALL CONC. DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS; DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND. DESIGN TO INCLUDE ALLOWABLE HORIZONTAL LOADINGS (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING.
SAND (1'0" DEEP)	ASHTO M-6 OR ASTM C-33	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DABASE AND GRANITESTONE ARE NOT ACCEPTABLE; NO CALCIUM CARBONATE OR SOLIMIC SAND SUBSTITUTIONS ARE ACCEPTABLE; NO "ROCK DUST" CAN BE USED FOR SAND.

GEOTECHNICAL ENGINEER RECOMMENDATIONS:

EMBANKMENT AND CUT-OFF TRENCH CONSTRUCTION

THE AREAS OF THE PROPOSED SWM FACILITIES SHOULD BE STRIPPED OF TOPSOIL AND ANY OTHER UNSUITABLE MATERIALS FROM THE EMBANKMENT OR STRUCTURE AREAS IN ACCORDANCE WITH SOIL CONSERVATION GUIDELINES. AFTER STRIPPING OPERATIONS HAVE BEEN COMPLETED, THE EXPOSED SUBGRADE MATERIALS SHOULD BE PROFFROLLED WITH A LOADED DUMP TRUCK OR SIMILAR EQUIPMENT IN THE PRESENCE OF A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FOR AREAS THAT ARE NOT ACCESSIBLE TO A DUMP TRUCK, THE EXPOSED MATERIALS SHOULD BE OBSERVED AND TESTED BY A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE UTILIZING A DYNAMIC CONE PENETROMETER. ANY EXCESSIVELY SOFT OR LOOSE MATERIALS IDENTIFIED BY PROFFROLLING OR PENETROMETER TESTING SHOULD BE EXCAVATED TO SUITABLE FIRM SOIL, AND THEN GRADES RE-ESTABLISHED BY BACKFILLING WITH SUITABLE SOIL.

A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO MONITOR PLACEMENT AND COMPACTION OF FILL FOR THE EMBANKMENT AND CUT-OFF TRENCH. IN ACCORDANCE WITH NRCS-MD CODE NO. 378 POND STANDARDS/SPECIFICATIONS, SOILS CONSIDERED SUITABLE FOR THE CENTER OF EMBANKMENT AND CUTOFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE.

IT IS OUR PROFESSIONAL OPINION THAT IN ADDITION TO THE SOIL MATERIALS DESCRIBED ABOVE, A FINE-GRAINED SOIL, INCLUDING SILT(ML) WITH A PLASTICITY INDEX OF 10 OR MORE CAN BE UTILIZED FOR THE CENTER OF THE EMBANKMENT AND CORE TRENCH. ALL FILL MATERIALS MUST BE PLACED AND COMPACTED IN ACCORDANCE WITH NRCS-MD CODE NO. 378 SPECIFICATIONS.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

PE NO. _____
 DATE _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER: *Mark Levy* DATE: _____

BY THE ENGINEER:

"I/WE CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

ENGINEER: *Brian F. Cleary, P.E.* # 28599 DATE: 8/31/2007

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION, AND SEDIMENT CONTROL.

USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE: 9/14/07

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION, AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT DATE: 9/14/07

APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS DATE: _____

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: _____

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: _____

BENCHMARK ENGINEERS, LAND SURVEYORS & PLANNERS, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644
 www.bei-civilengineering.com

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2009

OWNER: MARK LEVY BINDER ROCK, LLC 7111 DORSEY RUN ROAD SUITE 101 ELK RIDGE, MARYLAND 21075 410.526.4030

DEVELOPER: MARK LEVY H & H ROCK COMPANIES 6800 DEERPATH ROAD SUITE 100 ELK RIDGE, MARYLAND 21075 410.579.2242

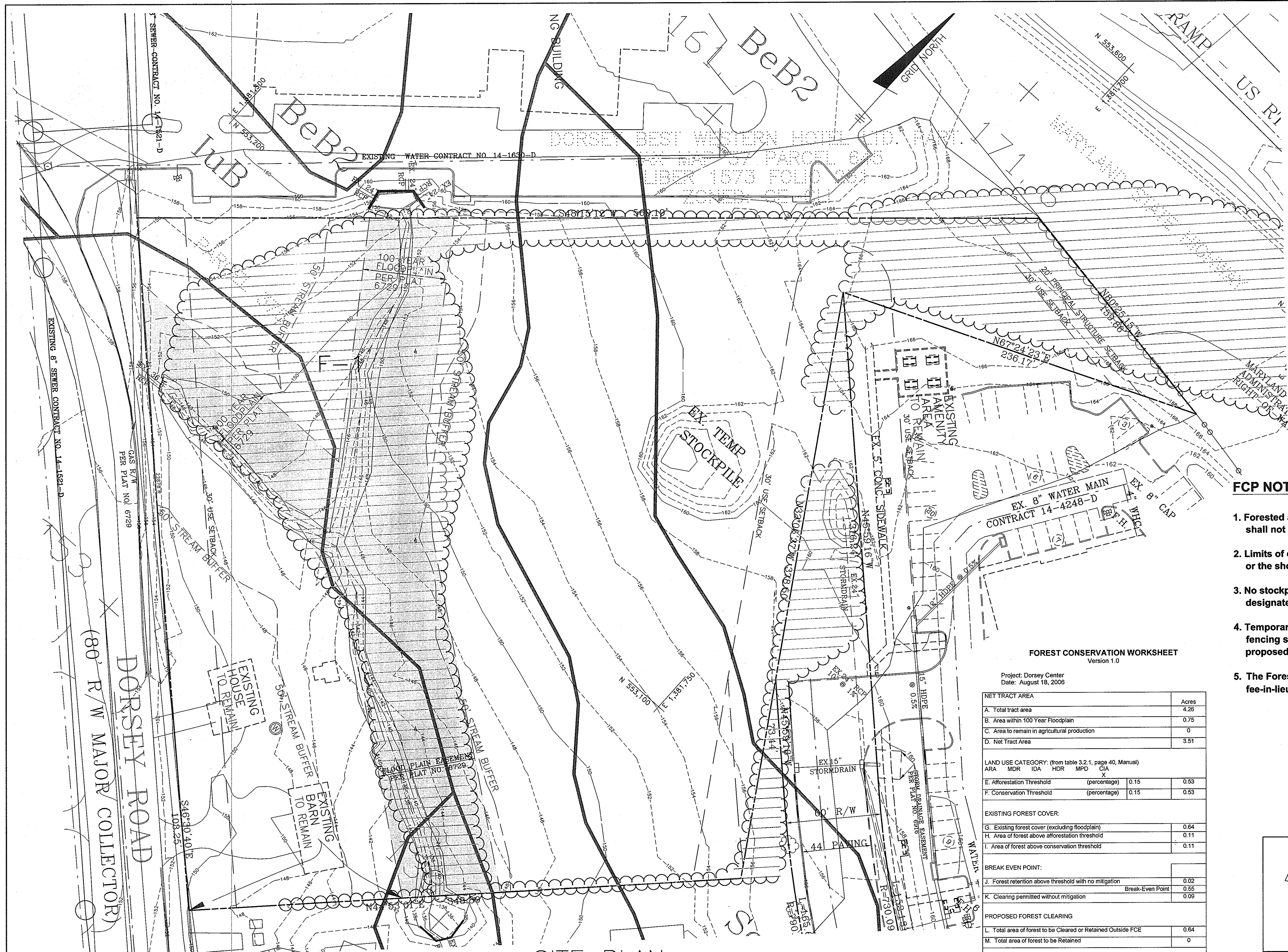
PROJECT: DORSEY BUSINESS CENTER, PARCEL 'A' AND BINDER PROPERTY PARCEL 'A', OVERFLOW PARKING LOT AND SWM FACILITY

LOCATION: TAX MAP 37 PARCEL 375 - GRID 24 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: STORMWATER MANAGEMENT NOTES AND DETAILS

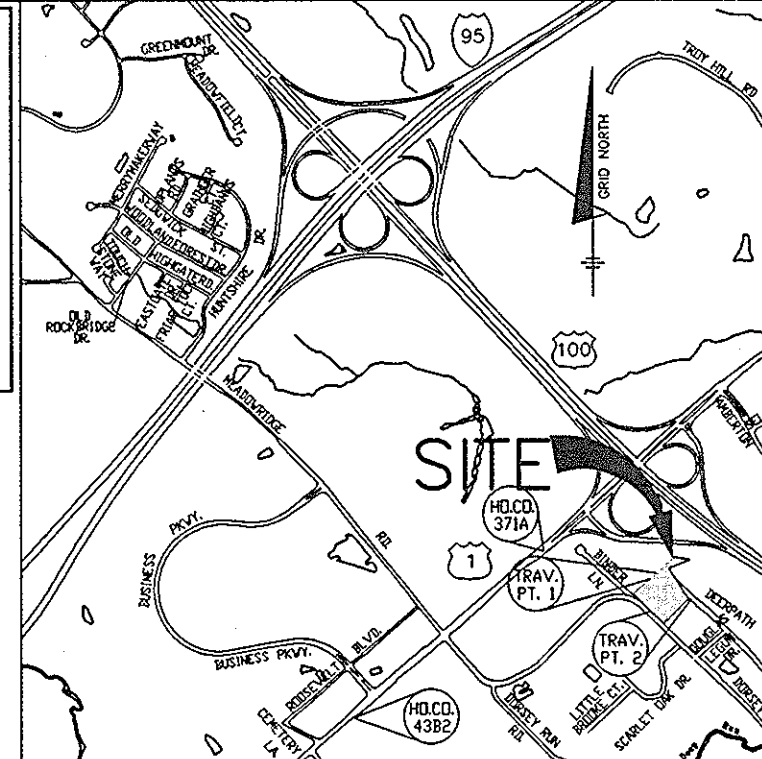
DATE: AUGUST 2006 AUGUST 2007 PROJECT NO. 1959

Design: BFC Draft: BFC Check: DAM SCALE: AS SHOWN DRAWING NO. OF 9



BENCH MARKS--(NAD'83)

TRAV. PT. 1	EL. 157.73
TRV. MAG: 18.0' NORTHEAST OF CONC. CURVE OF SOUTHEASTBOUND LANE OF DEERPATH ROAD; 20.3' NORTH OF EX. INLET	N 553.149.12 E 1,381,844.44
TRAV. PT. 2	EL. 154.64
TRV. MAG: 3.1' NORTHEAST OF CONC. CURVE OF SOUTHEASTBOUND LANE OF DEERPATH ROAD; 20.3' NORTH OF EX. INLET	N 553,037.81 E 1,381,953.46



KEY	COMMUNITY TYPE	ACREAGE (NTA)	DOMINANT VEGETATION	GENERAL CONDITION	PRIORITY ACREAGE
F-1	Successional	0.64 (NTA)	Prunus serotina, Acer rubrum, Acer saccharinum, Sassafras albidum, Nyssa sylvatica, Cornus florida	Good	0.44 +/- buffers

- FSD NOTES:**
- NO RARE THREATENED, OR ENDANGERED SPECIES WERE OBSERVED ON THE PROPERTY.
 - SURROUNDING LAND USE COMMERCIAL BUSINESS PARK.
 - ALL FOREST ON THE SITE IS IN STAND F-1
 - THE NETLAND/STREAM DELINEATION ON THE PROPERTY WAS PREPARED BY HILLIS-GARNES ENGINEERING ASSOCIATES.

- FCP NOTES:**
- Forested area occurring outside of the FCE shall not be considered part of the FCE and shall not be subject to protective land covenants.
 - Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the shown LOD, whichever is greater.
 - No stockpiles, parking areas, equipment cleaning area, etc. shall occur within areas designated as Forest Conservation Easements.
 - Temporary fencing shall be used to protect forest resources during construction. The fencing shall be placed along all LOD boundaries which occur within 15 feet of the proposed forest retention limits.
 - The Forest Conservation Act requirements will be met through the payment of a fee-in-lieu for 1.09 acres. The cost of this fee will be \$35,610.30.

FOREST CONSERVATION WORKSHEET
Version 1.0

Project: Dorsey Center
Date: August 18, 2006

NET TRACT AREA	Acres
A. Total tract area	4.26
B. Area within 100 Year Floodplain	0.75
C. Area to remain in agricultural production	0
D. Net Tract Area	3.51

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)	ARA	MDR	IDA	HDR	MPD	CIA
						X

E. Afforestation Threshold (percentage)	0.15	0.53
F. Conservation Threshold (percentage)	0.15	0.53

EXISTING FOREST COVER:	
G. Existing forest cover (excluding floodplain)	0.64
H. Area of forest above afforestation threshold	0.11
I. Area of forest above conservation threshold	0.11

BREAK EVEN POINT:	
J. Forest retention above threshold with no mitigation	0.02
K. Clearing permitted without mitigation	Break-Even Point 0.09

PROPOSED FOREST CLEARING	
L. Total area of forest to be Cleared or Retained Outside FCE	0.64
M. Total area of forest to be Retained	0

PLANTING REQUIREMENTS	
N. Reforestation for clearing above Conservation Threshold	0.03
P. Reforestation for clearing below Conservation Threshold	1.06
Q. Credit for retention above conservation threshold	0
R. Total reforestation required	1.09

NOTE:
PARCEL 'A' WAS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS DUE TO PREVIOUSLY MASS GRADING.

SITE PLAN
SCALE: 1" = 30'

LEGEND

EXISTING CONTOURS	--- 592 ---
PROPOSED CONTOURS	--- 600 ---
EXISTING WOODS LINE	--- 600 ---
PROPOSED WOODS LINE	--- 600 ---
PROPOSED STRUCTURE	□

Eco-Science Professionals, Inc.
CONSULTING ECOLOGISTS

MD DNR Qualified Professional
USACOE Wetland Delineator
Certification #W7000999MD0610044B3

P.O. Box 5006 Glen Arm, MD 21057 (410) 592-6752

John P. Caylor

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cindy Rame
CHIEF, DIVISION OF LAND DEVELOPMENT

7/19/02 DATE

Frank P. Caylor
CHIEF, DEVELOPMENT ENGINEERING DIVISION

9/14/02 DATE

10/05/02 DATE

DIRECTOR

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS

8480 BALTIMORE NATIONAL PIKE • SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644
www.bei-civilengineering.com

STATE OF MARYLAND
BRYAN F. CLERY
PROFESSIONAL ENGINEER
8/31/2007

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2009.

OWNER: MARK LEVY BINDER ROCK, LLC 7111 DORSEY RUN ROAD SUITE 101 ELKRIDGE, MARYLAND 21075 410.526.4030	MARK LEVY DEERPATH ROCK, LLC 7111 DORSEY RUN ROAD SUITE 101 ELKRIDGE, MARYLAND 21075 410.526.4030	PROJECT: DORSEY BUSINESS CENTER, PARCEL 'A' AND BINDER PROPERTY PARCEL 'R', OVERFLOW PARKING LOT AND SWM FACILITY
DEVELOPER: MARK LEVY H & H ROCK COMPANIES 6800 DEERPATH ROAD SUITE 100 ELKRIDGE, MARYLAND 21075 410.579.2242	TAX MAP 37 PARCEL 375 - GRID 24 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN
Design: BFC Draft: BFC Check: DAM	DATE: AUGUST 2006 AUGUST 2007	PROJECT NO. 1959 SCALE: AS SHOWN DRAWING 8 OF 9

CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped topsoil. All trees, brush, logs, stumps, roots and other objectionable material shall be removed. Borrow banks and sharp breaks shall be sloped to no steeper than 1:1. All trees shall be cleared and grubbed within 15 feet of the toe of the embankment.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, stumps, roots and other objectionable material unless otherwise designated on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry storm water management ponds, a minimum of a 25-foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill
Material - The fill material shall be taken from approved designated borrow areas. If soil shall be free of roots, stumps, wood, rubbish, stones greater than 6" frozen or other objectionable material. Fill material for the center of the embankment, and cut off trench shall conform to Unified Soil Classification G2, G3, CH, or CL and must have at least 30% passing the #200 sieve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised by a geotechnical engineer.

Materials used in the outer shell of the embankment must have the capability to support vegetation of the quality required to prevent erosion of the embankment.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal roadway must be installed concurrently with fill placement and not excavated into the embankment.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each fill shall be traversed by not less than one tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if worked into a ball it will not crumble, yet not be so wet that water can be squeezed out.

When required by the reviewing agency the minimum required density shall not be less than 95% of maximum dry density with a moisture content within ± 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and it to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor).

Cut Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be a least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10 year water elevation or as shown on the plans. The side slopes shall be 1 to 1 or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure or pipe unless there is a compacted fill of 24" or greater over the structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 313 as modified. The mixture shall have a 100-200 psi; 28 day unconfined compressive strength. The flowable fill shall have a minimum pH of 4.0 and a minimum resistivity of 2,000 ohm-cm. Material shall be placed such that a minimum of 6" (measured perpendicular to the outside of the pipe) of flowable fill shall be under (bedding), over and, on the slope of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill shall be 7" to assure flowability of the material. Adequate measures shall be taken (sand bags, etc.) to prevent flooding the pipe. When using flowable fill, all metal pipe shall be bituminous coated. Any adjoining soil fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material shall completely fill all voids adjacent to the flowable fill zone. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a structure or pipe unless there is a compacted fill of 24" or greater over the structure of pipe. Backfill material outside the structural backfill (flowable fill) zone shall be of the type and quality conforming to that specified for the core of the embankment or other embankment materials.

Pipe Conduits

All pipes shall be circular in cross section

Corrugated Metal Pipe - all of the following criteria shall apply for corrugated metal pipe:

1. Materials - (Polymer Coated Steel Pipe) - Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-245 & M-246 with watertight coupling bands or flanges.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Aluminum Coated Steel Pipe, when used with flowable fill or when soil and/or water conditions warrant for increased durability, shall be fully bituminous coated per requirements of AASHTO Specification M-190 Type A. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Aluminum surfaces that are to be in contact with concrete shall be pointed with one coat of zinc chromate primer or two coats of asphalt.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Aluminum Pipe, when used with flowable fill or when soil and/or water conditions warrant for increased durability, shall be fully bituminous coated per requirements of AASHTO Specification M-190 Type A. Aluminum surfaces that are to be in contact with concrete shall be pointed with one coat of zinc chromate primer or two coats of asphalt. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

2. Coupling bands, anti-seep collars, end sections, etc., must be composed of the same material and coatings as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

3. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connection shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled on adequate number of corrugations to accommodate the bandwidth. The following pipe connections are acceptable for pipes less than 24 inches in diameter: flanges on both ends of the pipe with a circular 3/8 inch closed cell neoprene gasket; pre-punched to the flange bolt circle sandwiched between adjacent flanges; a 12-inch wide standard lap type band with 12-inch wide by 3/8-inch thick closed cell circular neoprene gasket; and a 12-inch wide hugger type band with 3/8-inch thick closed cell circular neoprene gasket; and a 24-inch long annular corrugated band using a minimum of 4 (four) rods and lugs, 2 on each side of the pipe end. A 24-inch wide by 3/8-inch thick closed cell circular neoprene gasket will be installed with 12 inches on the end of each pipe. Flanged joints with 3/8 inch closed cell gaskets the full width of the flange is also acceptable.

Helicly corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking or a neoprene bead.

4. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

5. Backfilling shall conform to "Structure Backfill".

6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM C-361.

2. Bedding - Reinforced concrete pipe conduits shall be laid in a concrete bedding/cradle for their entire length. This bedding/cradle shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 50% of its outside diameter with a minimum thickness of 6 inches. Where a concrete cradle is not needed for structural reasons, flowable fill may be used as described in the "Structure Backfill" section of this standard. Grovel bedding is not permitted.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 4 feet from the riser.

4. Backfilling shall conform to "Structure Backfill".

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Plastic Pipe - The following criteria shall apply for plastic pipe:

1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4" - 10" inch pipe shall meet the requirements of AASHTO M252 Type 5, and 12" through 24" inch shall meet the requirements of AASHTO M294 Type 5.

2. Joints and connections to anti-seep collars shall be completely watertight.

3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Backfilling shall conform to "Structure Backfill".

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Drainage Diaphragms - When a drainage diaphragm is used, a registered professional engineer will supervise the design and construction inspection.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

Rock Riprap

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311. Geotextile shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 921.09, Class C.

Care of Water during Construction

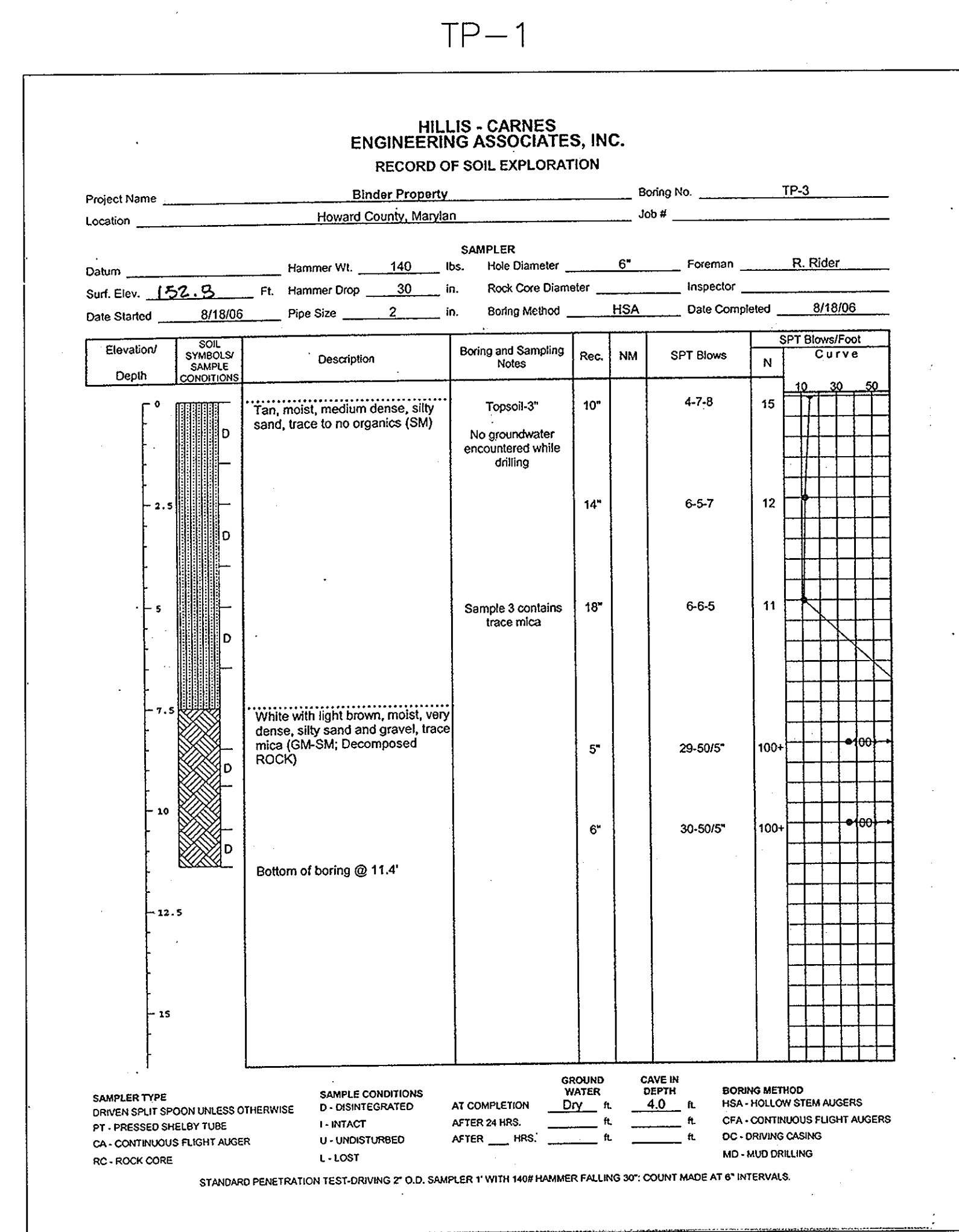
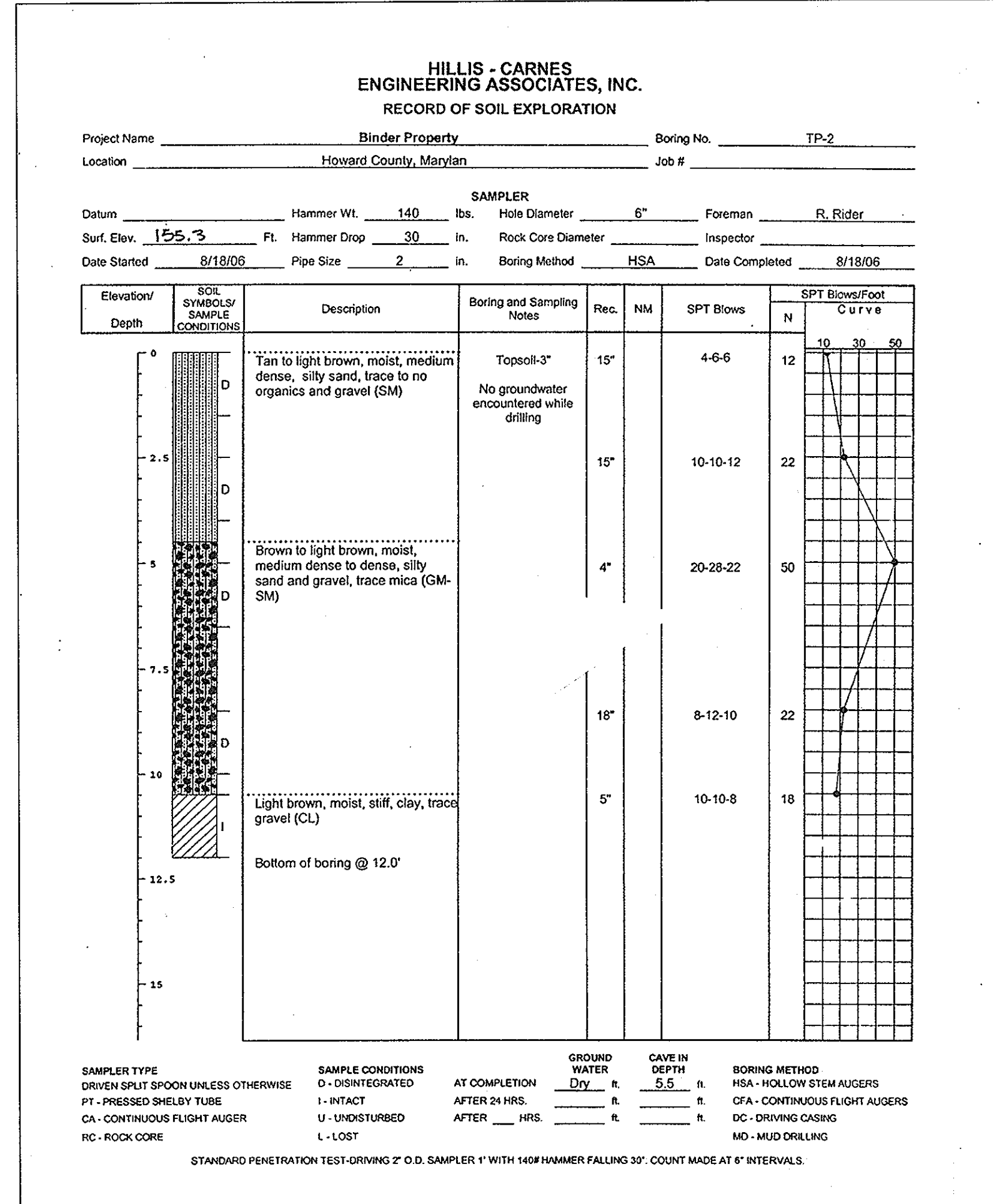
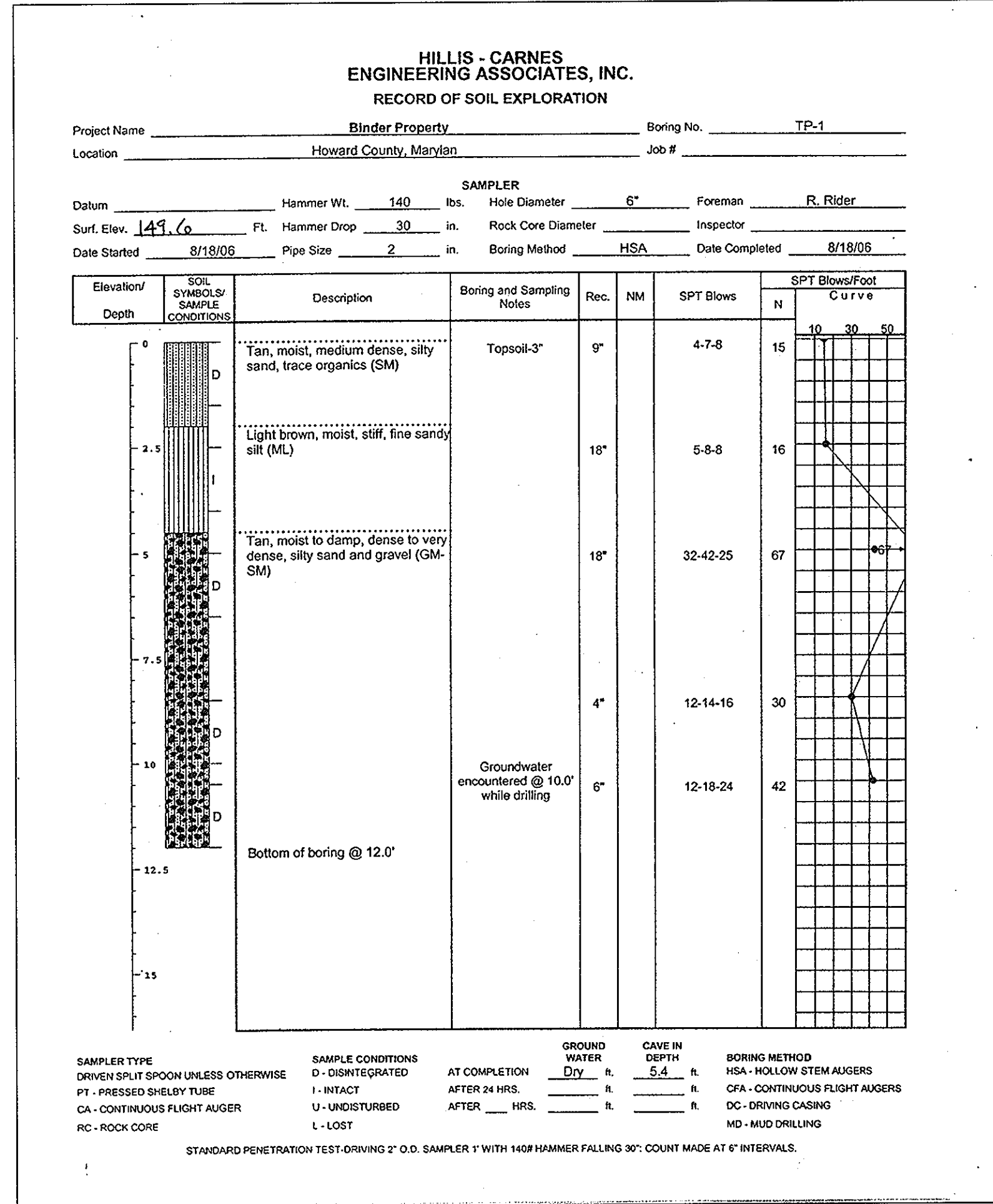
All work on permanent structures shall be carried out in areas free from water. The contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom required excavations and will allow satisfactory performance of all construction operations. During the piling and compaction of material in required excavations, the water level at the location being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water pumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures.



BENCHMARK ENGINEERS, LAND SURVEYORS & PLANNERS ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644
 www.bei-civilengineering.com

STATE OF MARYLAND
 BENCHMARK CIVIL ENGINEERS
 PROFESSIONAL ENGINEER
 REGISTERED
 3/1/2007

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28259, Expiration Date: 7-23-2009.

OWNER: MARK LEVY BINDER ROCK, LLC 7111 DORSEY RUN ROAD SUITE 101 ELKRDGE, MARYLAND 21075 410.526.4030	MARK LEVY DEERPATH ROCK, LLC 7111 DORSEY RUN ROAD SUITE 101 ELKRDGE, MARYLAND 21075 410.526.4030	PROJECT: DORSEY BUSINESS CENTER, PARCEL 'A' AND DORSEY CENTER PARCEL 'R', OVERFLOW PARKING LOT AND SWM FACILITY
DEVELOPER: MARK LEVY H & H ROCK COMPANIES 6800 DEERPATH ROAD SUITE 100 ELKRDGE, MARYLAND 21075 410.579.2242	LOCATION: TAX MAP 37 PARCEL 375 - GRID 24 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: SWM BORINGS AND SPECIFICATIONS
DATE: AUGUST 2006 AUGUST 2007	PROJECT NO. 1959	SCALE: AS SHOWN
Design: BFC	Draft: BFC	Check: DAM

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

David A. Stambaugh 9/19/07 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT

Mark A. Uylea 10/05/07 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DIRECTOR

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