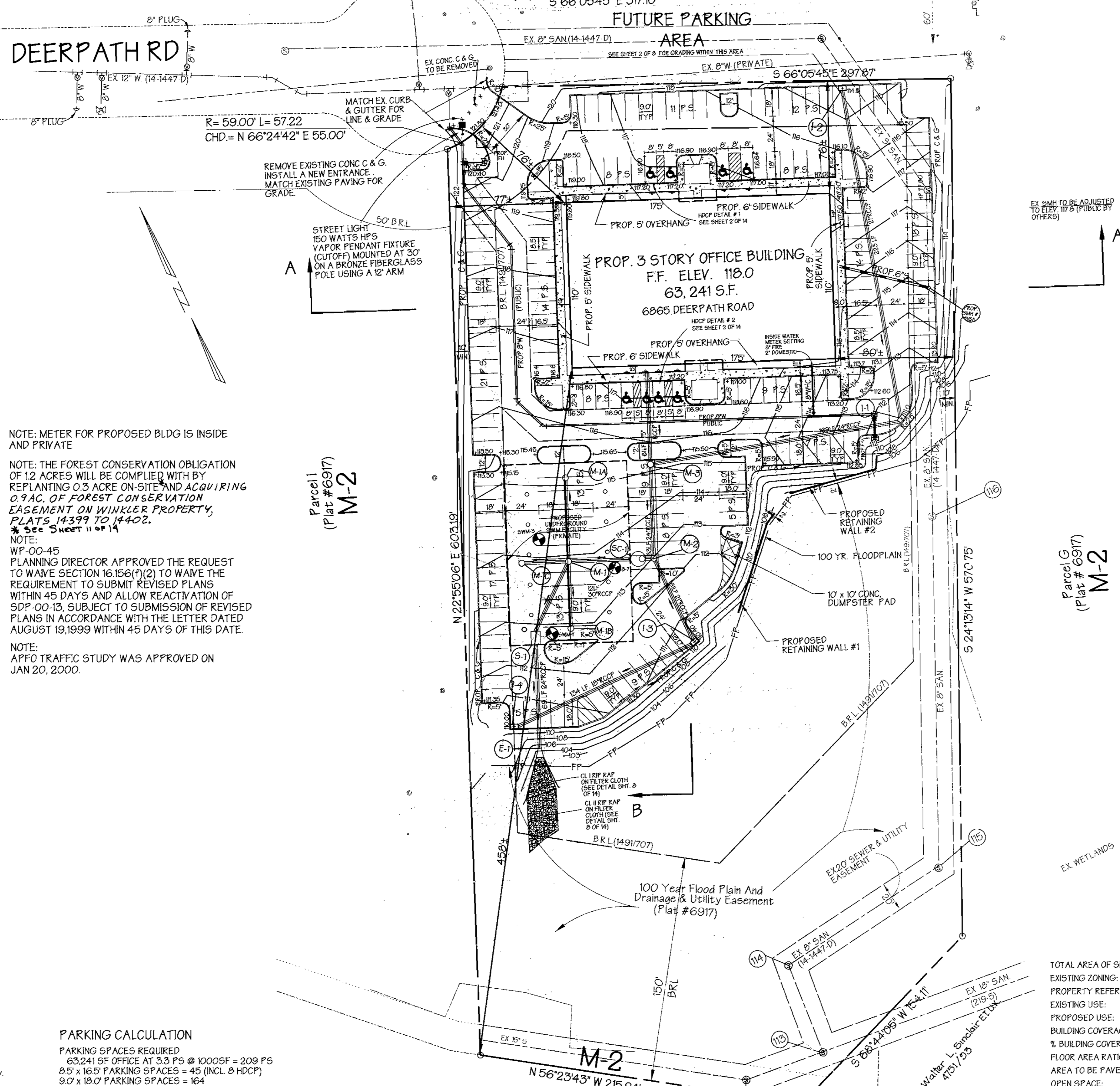


Construction Notes

- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-315 1890 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.
- ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE AND FINISH.
- ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE, UNLESS OTHERWISE NOTED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
- THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING, ETC. ARE TO BE REMOVED PRIOR TO PLACING A BID ON SUCH ITEMS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICT IS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT G. W. STEPHENS AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, IF NECESSARY, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE FACILITIES, IF NECESSARY.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES OUTSIDE THE LIMIT OF DISTURBANCE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION. COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NOT BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION. ANY DAMAGE TO OFFSITE ROADS, RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CLEAR THE PROJECT SITE OF ALL TREES, PAVING STRUCTURES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLAN.
- ONLY SUITABLE MATERIAL SHALL BE USED AS FILL AND ALL FILL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN THE SOILS REPORT PREPARED FOR THIS SITE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ALL 2.1 ACRES SHOWN HEREON, EXCEPT THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- MAXIMUM SLOPE SHALL BE 2 HORIZONTALLY TO 1 VERTICALLY.
- CONTRACTOR SHALL PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS.
- ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 FOOT OF PROTECTIVE FILL OVER STORM DRAIN PIPES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL PAVEMENT MARKINGS AND SIGNAGE FOR HANDICAP PARKING SPACES INDICATED HEREON IN ACCORDANCE WITH ALL APPLICABLE CODES. ALL PAVEMENT MARKINGS TO BE TRAFFIC WHITE.
- ALL HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED, LATEST EDITION.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". ALL STREET AND REGULATORY SIGNS SHALL BE INSTALLED PRIOR TO INSTALLATION OF FINISHED PAVING.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING BITUMINOUS PAVING OR SUB-BASE WHICH IS DAMAGED OR REMOVED DURING CONSTRUCTION. ALL EXCAVATED AREAS SHALL BE BACKFILLED AND IN ACCORDANCE WITH THE SOILS REPORT AND/OR AS DIRECTED BY GEOTECHNICAL ENGINEER. ANY AREAS TO BE PAVED WHICH EXHIBIT UNSTABLE SUBGRADE CONDITIONS SHALL BE EXCAVATED TO BEARING SOIL, REFILLED AND COMPACTED.
- ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- PERFORMED ELASTOMERIC COMPRESSION JOINT MATERIAL SHALL BE INSTALLED AT ALL MEETINGS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY PREPARED BY G. W. STEPHENS JR. & ASSOCIATES DATED MARCH 1998.
- OUTDOOR LIGHTING WILL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- 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 NO. 371A WAS USED FOR THIS PROJECT.
- WATER IS PUBLIC.
- SEWER IS PUBLIC.
- EXISTING UTILITIES ARE BASED ON SURVEY PREPARED BY GWS.
- PROPOSED SIDEWALK 15" 5" THICK CONCRETE (MIX NO. 2) ON 4" CRUSHER RUN BASE.

DEERPATH RD

Parcel F
(Plat #6917)
M-2



NOTE: METER FOR PROPOSED BLDG IS INSIDE AND PRIVATE

NOTE: THE FOREST CONSERVATION OBLIGATION OF 1.2 ACRES WILL BE COMPLIED WITH BY REPLANTING 0.3 ACRE ON-SITE AND ACQUIRING 0.9 AC. OF FOREST CONSERVATION EASEMENT ON WINKLER PROPERTY, PLATS 14399 TO 14402. * See Sheet 11 of 14

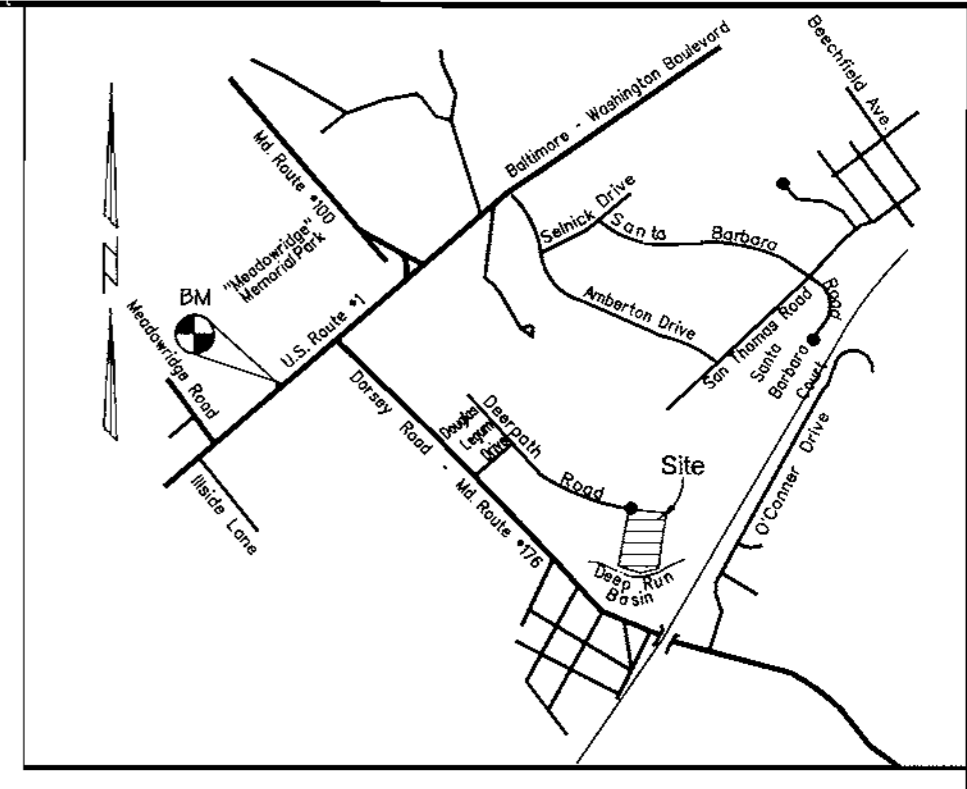
NOTE: WP-00-45 PLANNING DIRECTOR APPROVED THE REQUEST TO WAIVE SECTION 16.156(f)(2) TO WAIVE THE REQUIREMENT TO SUBMIT REVISED PLANS WITHIN 45 DAYS AND ALLOW REACTIVATION OF SDP-00-13, SUBJECT TO SUBMISSION OF REVISED PLANS IN ACCORDANCE WITH THE LETTER DATED AUGUST 19, 1999 WITHIN 45 DAYS OF THIS DATE.

NOTE: AFFO TRAFFIC STUDY WAS APPROVED ON JAN 20, 2000.

PARKING CALCULATION
 PARKING SPACES REQUIRED
 63,241 SF OFFICE AT 3.3 PS @ 1000SF = 209 PS
 8.5' x 16.5' PARKING SPACES = 45 (INCL. 8 HDPC)
 9.0' x 18.0' PARKING SPACES = 164
 PARKING SPACES PROVIDED = 209 P.S. (INCL. 8 HDPC)
 HDPC PARKING SPACES ARE 13' X 16.5' (min.)
 VAN ACCESSIBLE PARKING SPACES ARE 16' X 16.5' (min.)

Legend

Ex. 2' Contours	394
Ex. 10' Contours	395
Prop. 2' Contours	394
Prop. 10' Contours	395
Ex. Curb & Gutter	
Prop. Curb & Gutter	
Big. Restriction Line	
Ex. Sanitary	
Ex. Storm Drain	
Ex. Water	
Prop. Sanitary	
Prop. Storm Drain	
Prop. Water	
Concrete Paving	
Light Duty Paving (P-3)	
Wetlands	
Flood Plain	
Ex. Conc. C&G to be Removed	
Proposed Reverse Conc. Curb & Gutter	
Ex. Trees	
Street Light	



LOCATION MAP
SCALE: 1" = 2000'

BENCHMARK:
 HUB # 371A ELEV 59.6633
 DISC SET ON TOP OF CONCRETE (3' DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 15' FROM R/W LINE.

SHEET INDEX

SHEET 1 OF 14	SITE PLAN
SHEET 2 OF 14	SITE & HANDICAP DETAILS
SHEET 3 OF 14	STORM DRAIN & SEWER PROFILES
SHEET 4 OF 14	STORMCEPTOR PLAN
SHEET 5 OF 14	SEDIMENT CONTROL PLAN
SHEET 6 OF 14	SEDIMENT CONTROL NOTES AND DETAILS
SHEET 7 OF 14	STORMWATER MANAGEMENT AREA MAPS
SHEET 8 OF 14	STORMWATER MANAGEMENT PLANS & PROFILES
SHEET 9 OF 14	STORMWATER MANAGEMENT NOTES AND DETAILS
SHEET 10 OF 14	LANDSCAPE PLAN
SHEET 11 OF 14	FOREST CONSERVATION PLAN
SHEET 12 OF 14	FOREST CONSERVATION PLAN
SHEET 13 OF 14	RETAINING WALL PROFILES & DETAILS
SHEET 14 OF 14	RETAINING WALL NOTES & DETAILS

State Railroad Administration
of The Department of Transportation
(234-51662)

SITE DATA

TOTAL AREA OF SITE:	4.87297 AC
EXISTING ZONING:	M-2 (SEE AA-87-06)
PROPERTY REFERENCE:	L-1300, F-547
EXISTING USE:	VACANT
PROPOSED USE:	OFFICE
BUILDING COVERAGE:	19,250 SF OR 0.44 AC
% BUILDING COVERAGE:	9.0%
FLOOR AREA RATIO:	0.27
AREA TO BE PAVED PLUS BUILDING AREA:	2.35 AC
OPEN SPACE:	0.15 AC
% PARKING LOT COVERAGE:	3.9%
AREA TO BE DISTURBED:	3.25 AC OR 141,570 S.F.
AREA TO BE VEGETATIVELY STABILIZED:	0.75 AC

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT DATE: 7/25/00

PLAN NUMBER: [blank] DATE: [blank]

Reviewed For Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE: 7/25/00

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 8/7/00

CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 9/1/00

DIRECTOR DATE: 9/6/00

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6865

SUBDIVISION NAME	SECTION NAME	PARCEL #
DORSEY BUSINESS CENTER	1	H

PLAT #	BLOCK #	ZONE	7/ZONE MAP	ELECT. DIST.	CENSUS TRACT
14391	6			1	6069.01
WATER CODE	B-01	SEWER CODE	2220000		

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors

1020 Cromwell Bridge Road
 Towson, Maryland 21286
 (410) 825-8120



PLAN
SCALE: 1" = 40'

Emmanuel United Evangelical Church of Dorsey (727/381)

C.A. Carter, Sr. (776/233)

OWNER/DEVELOPER

WHALEN PROPERTIES, L.L.C.,
 DORSEY, SERIES XIV
 2 EAST ROLLING CROSSROADS
 SUITE 251
 CATONSVILLE, MD 21228
 (410) 747-2900

DESIGNED BY: K.U.
 DRAWN BY: H.C.
 CHECKED BY: T.H.

REVISIONS

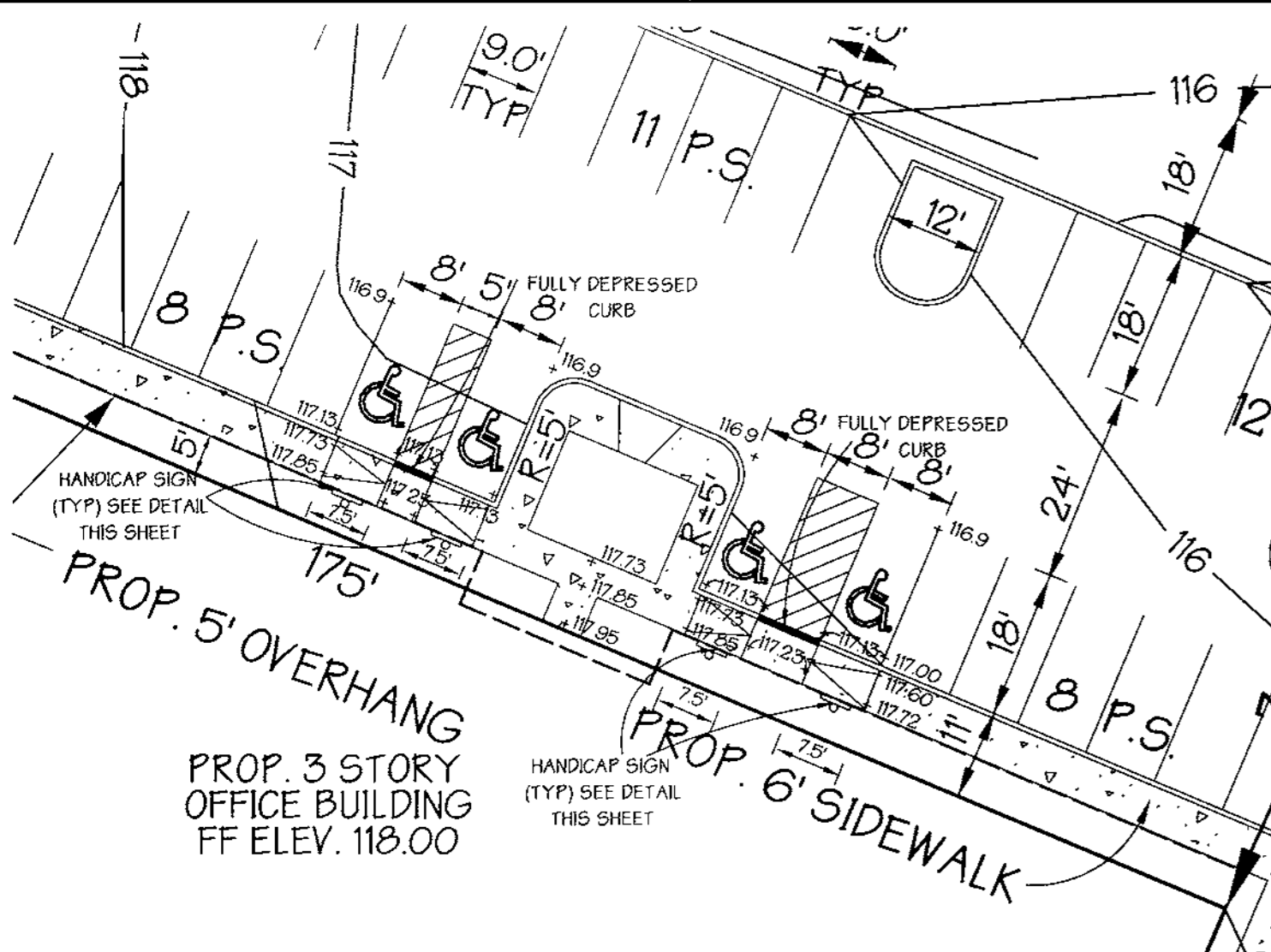
11/15/99 - REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS (Section 133, Zoning Regulations).

SITE PLAN
 FOR
 DORSEY BUSINESS CENTER
 PARCEL H-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD

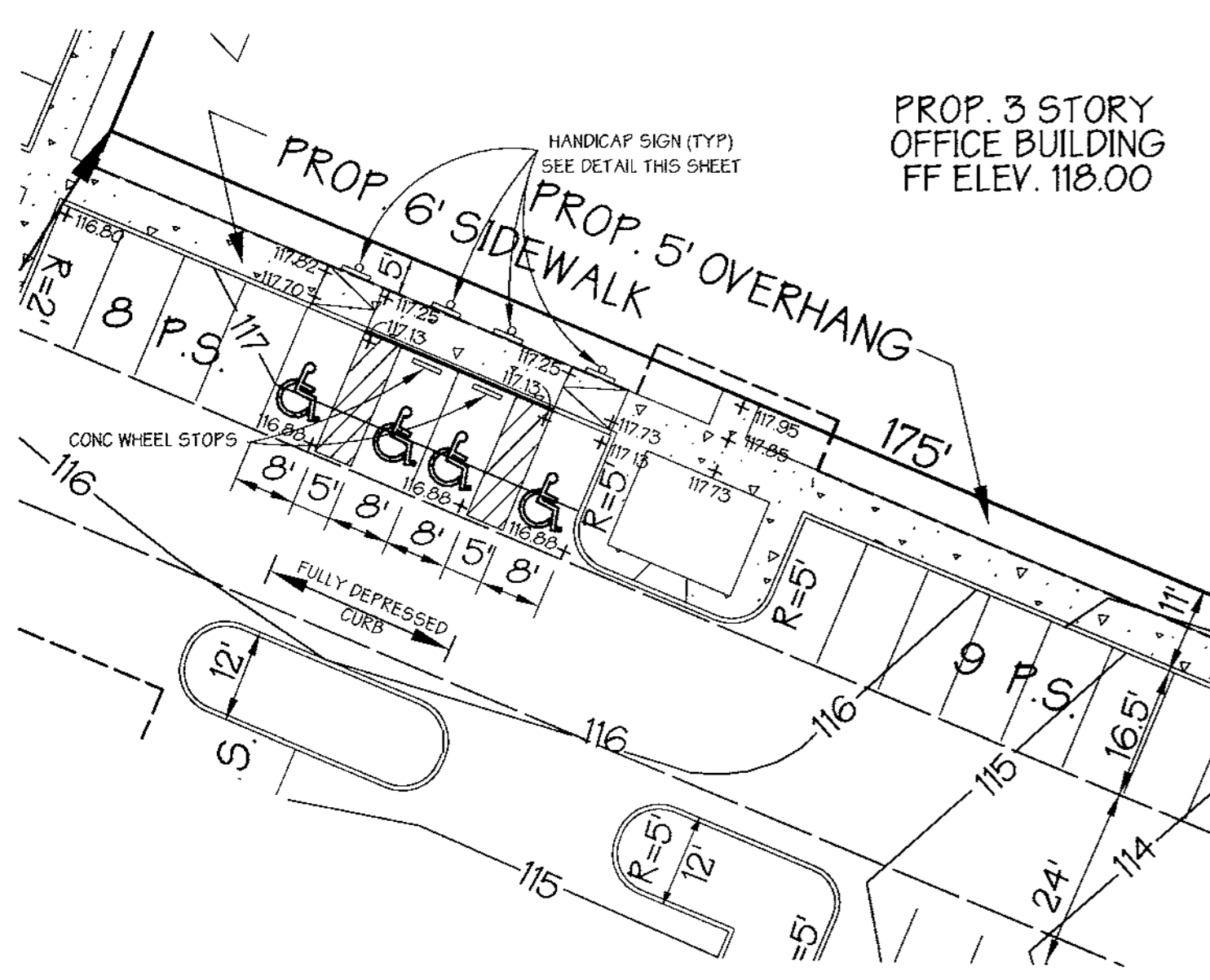
SHEET 1 OF 14

SDP-00-13
 SCALE: AS SHOWN
 FEBRUARY 17, 2000



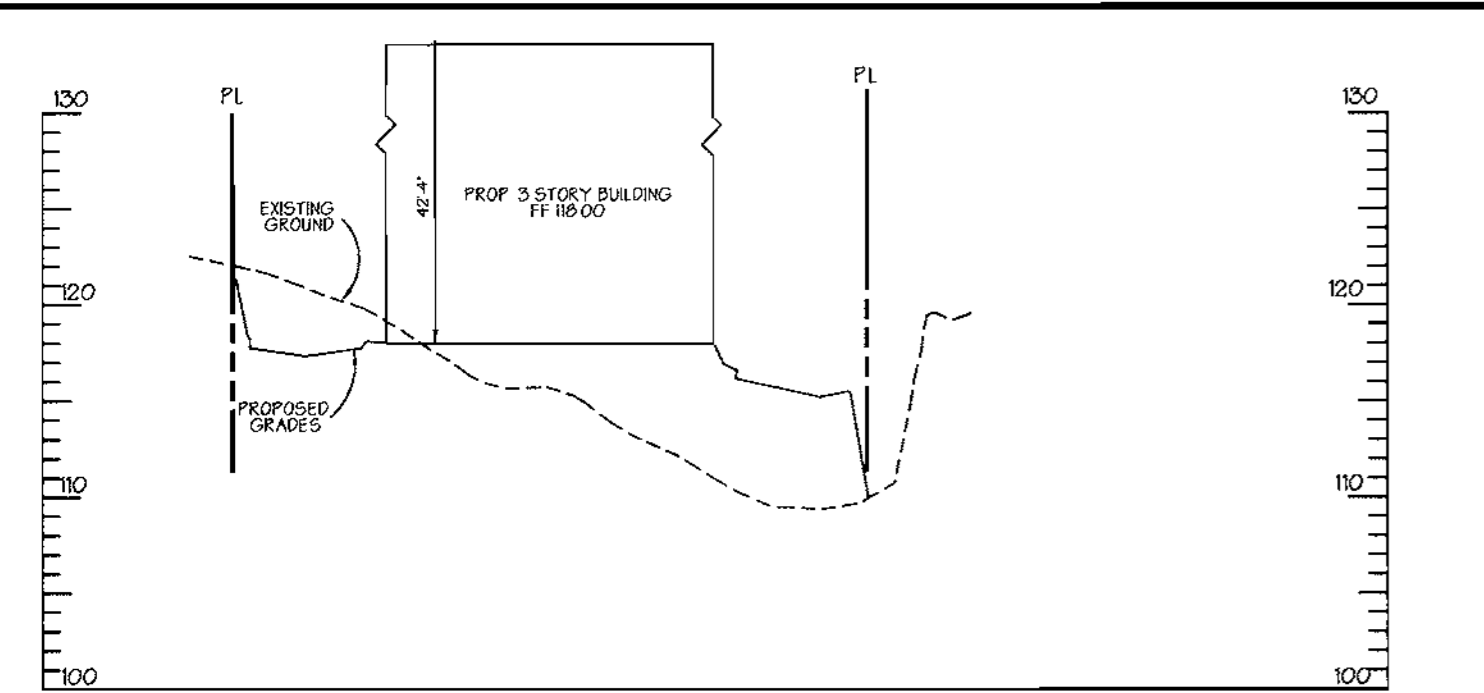
HANDICAP DETAIL # 1

SCALE: 1" = 20'



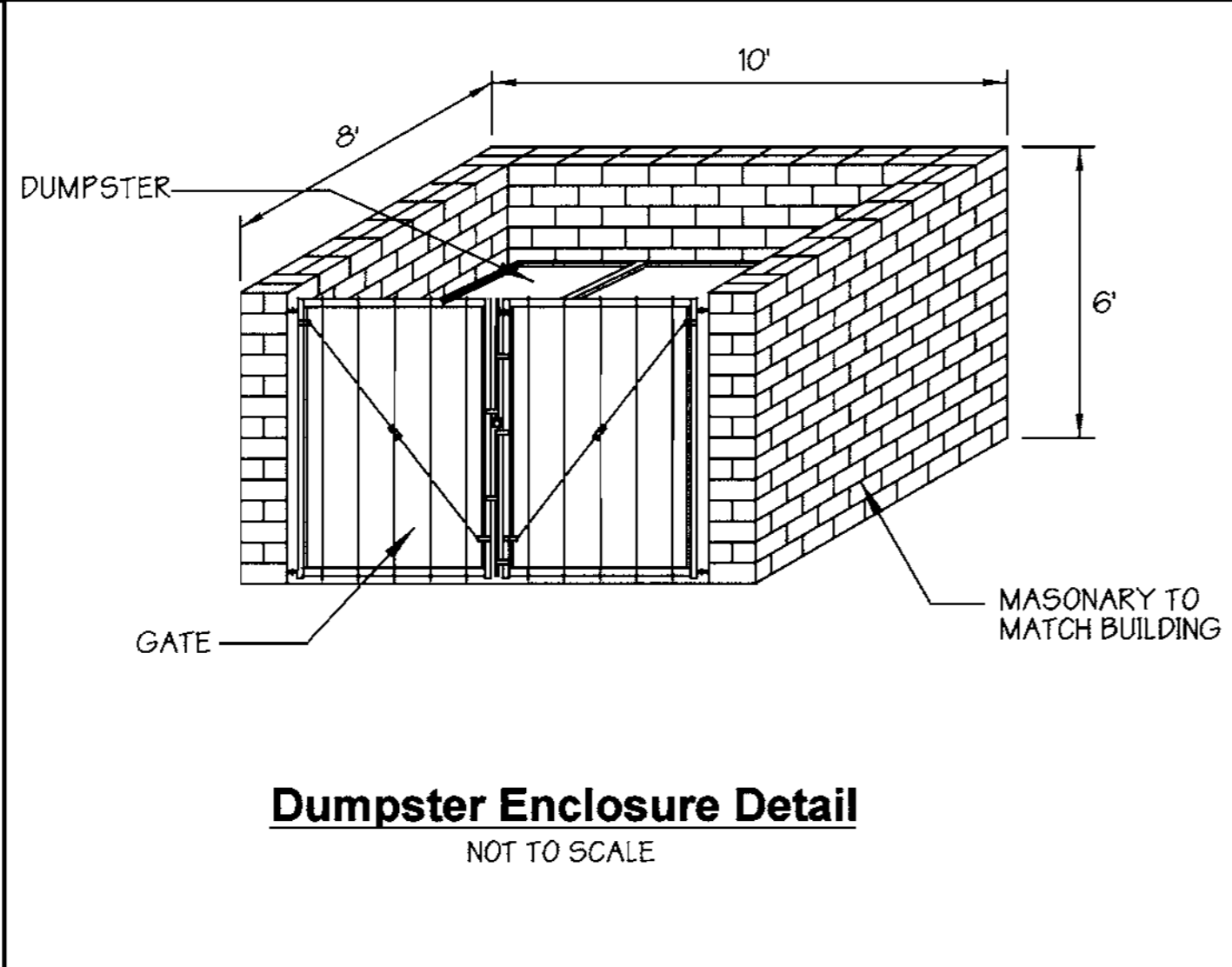
HANDICAP DETAIL # 2

SCALE: 1" = 20'



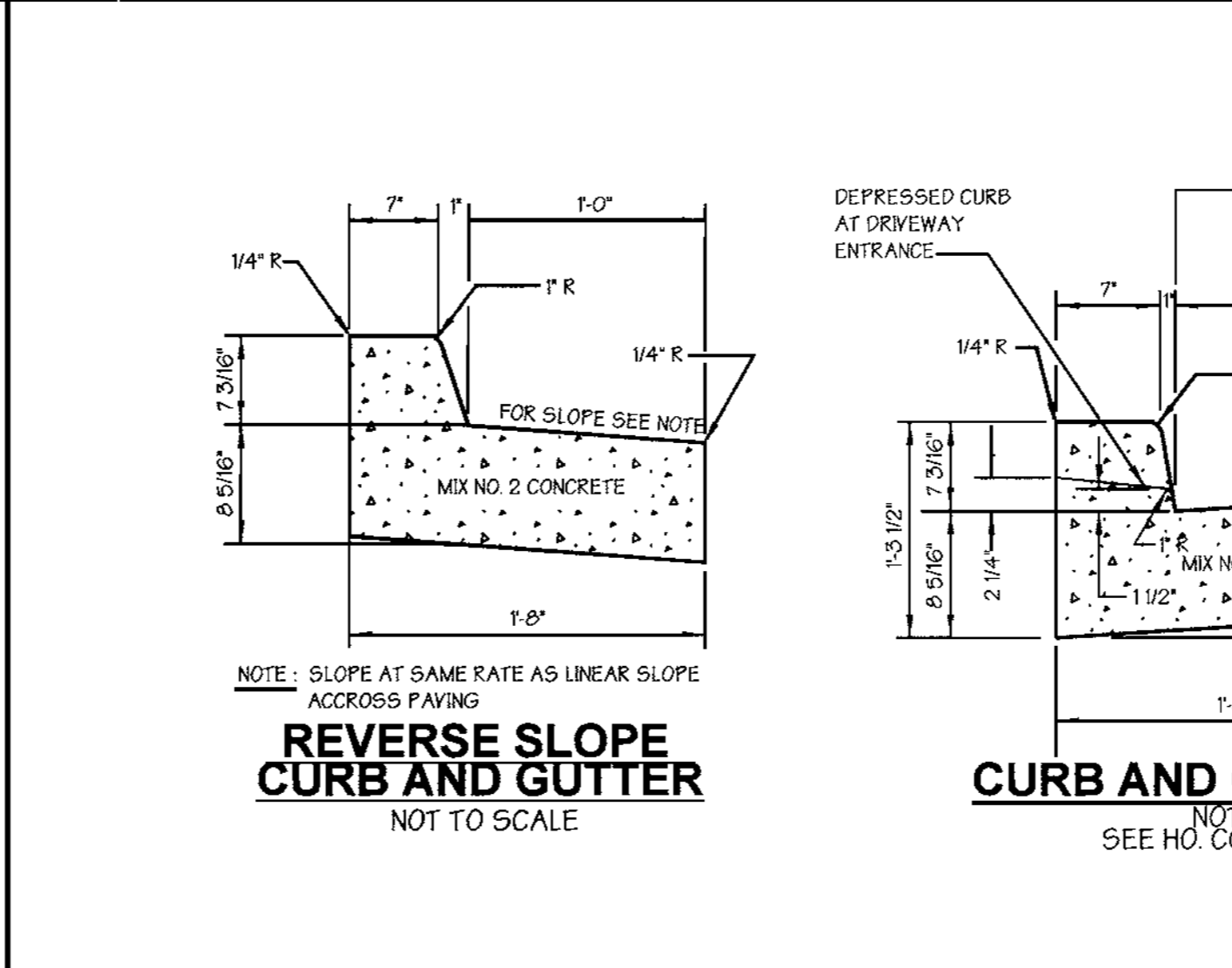
SECTION A-A

SCALE: HORZ.: 1" = 100'
VERT.: 1" = 10'



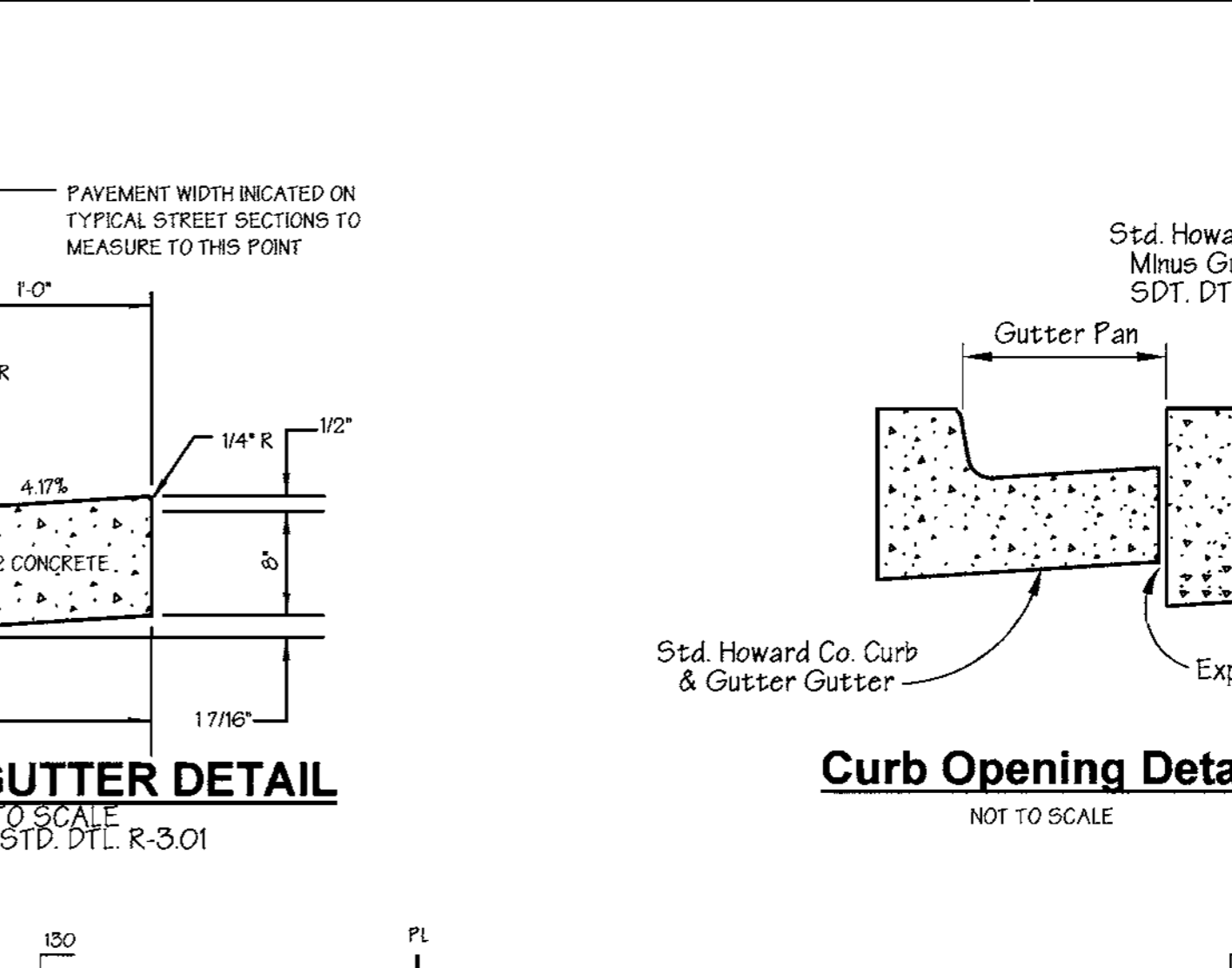
Dumpster Enclosure Detail

NOT TO SCALE



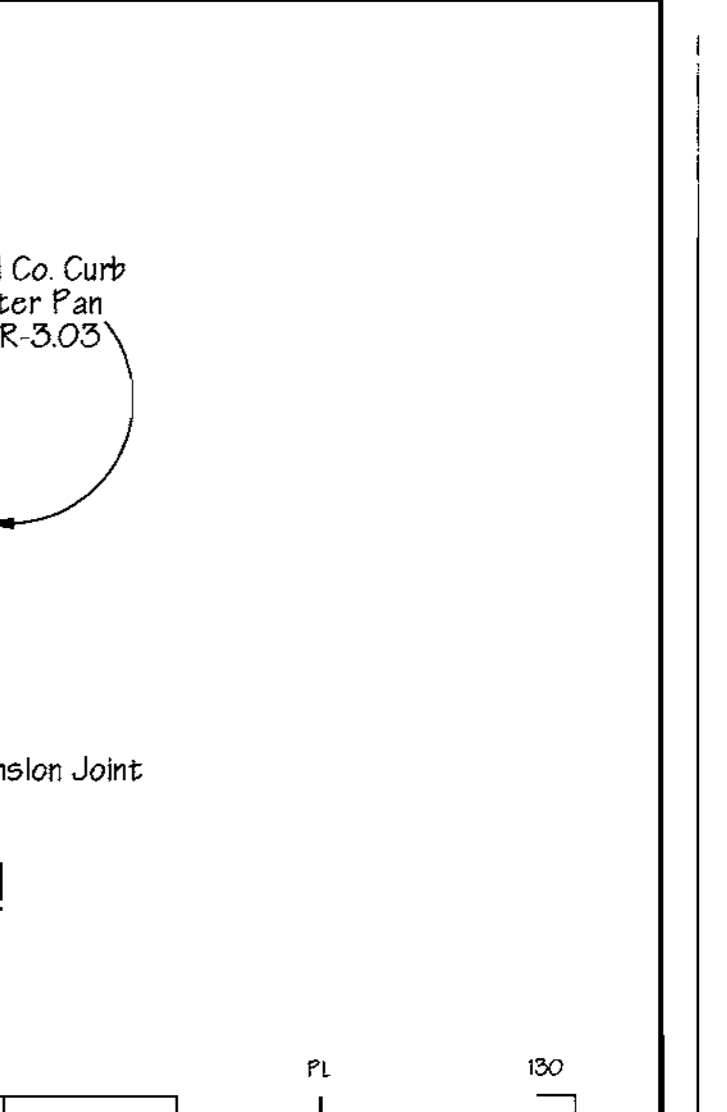
REVERSE SLOPE CURB AND GUTTER

NOT TO SCALE



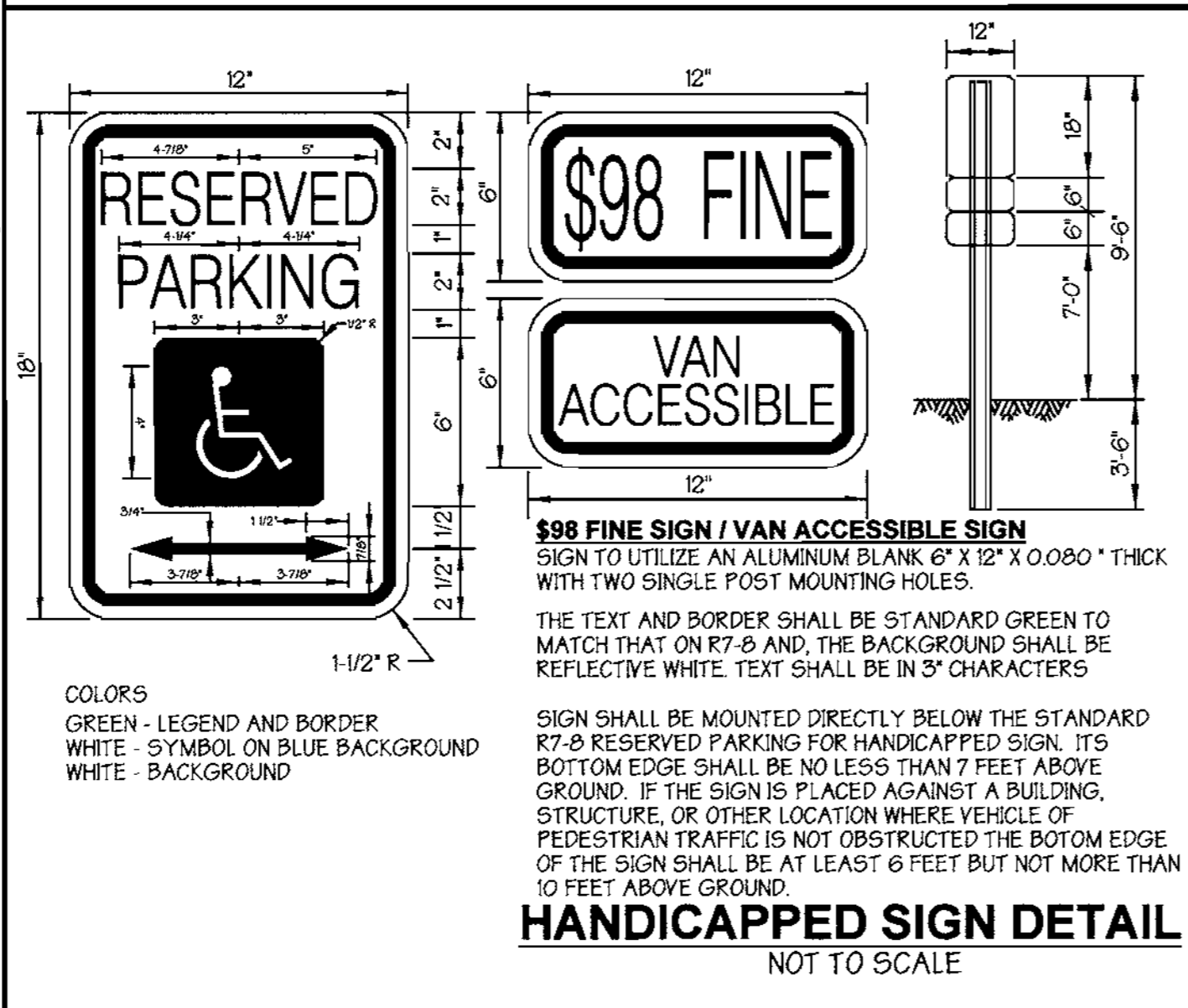
CURB AND GUTTER DETAIL

NOT TO SCALE
SEE HO. CO. STD. DTL. R-3.01



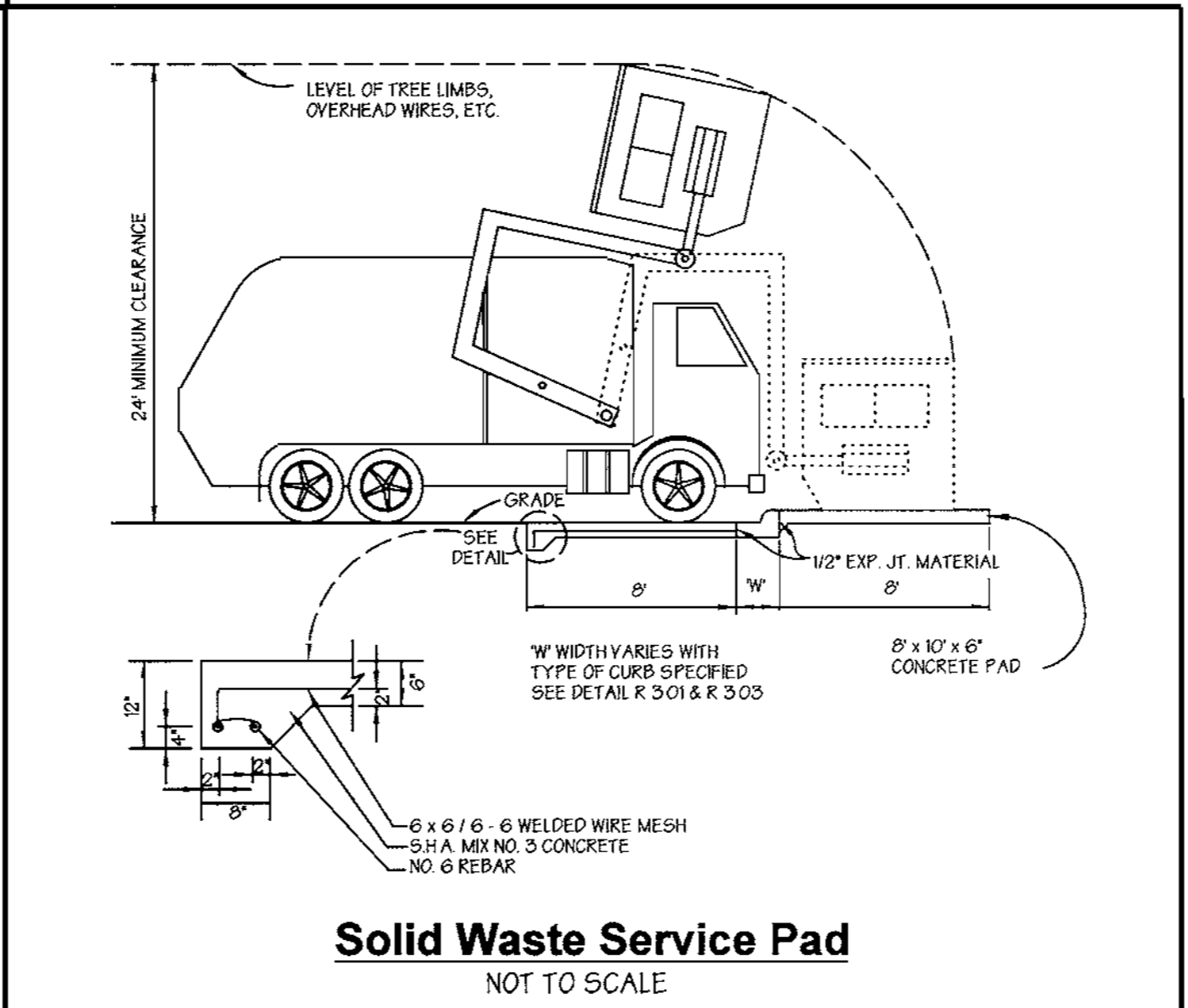
Curb Opening Detail

NOT TO SCALE



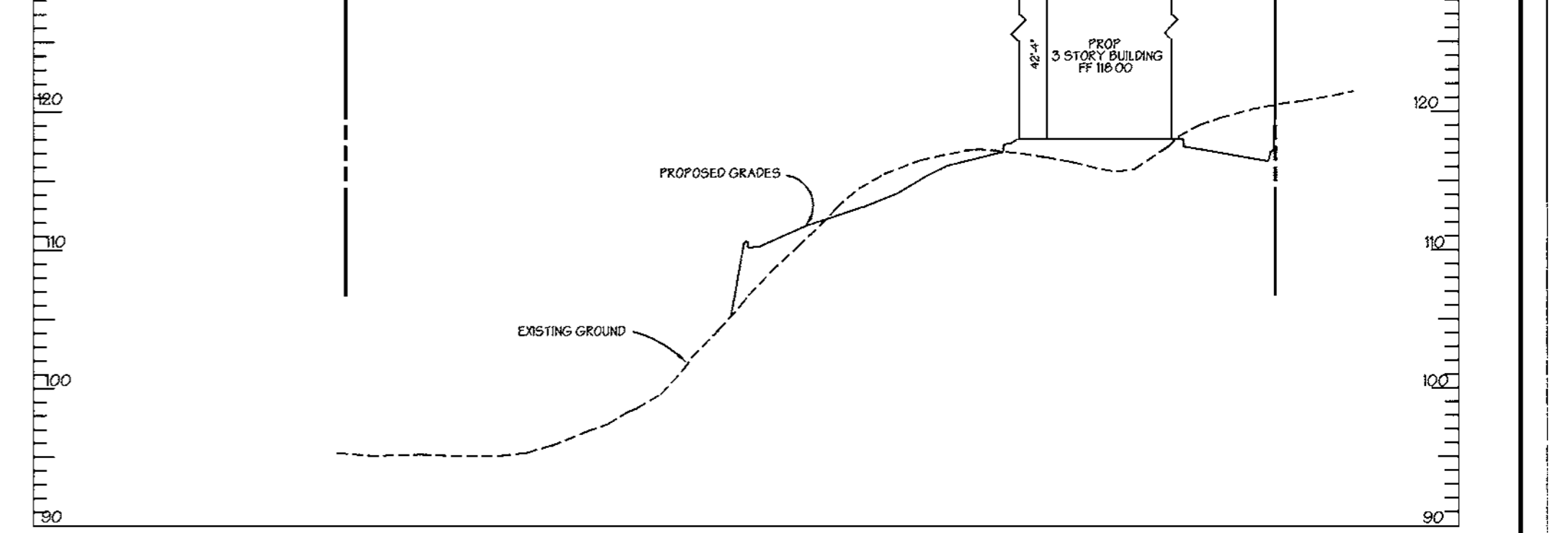
HANDICAPPED SIGN DETAIL

NOT TO SCALE



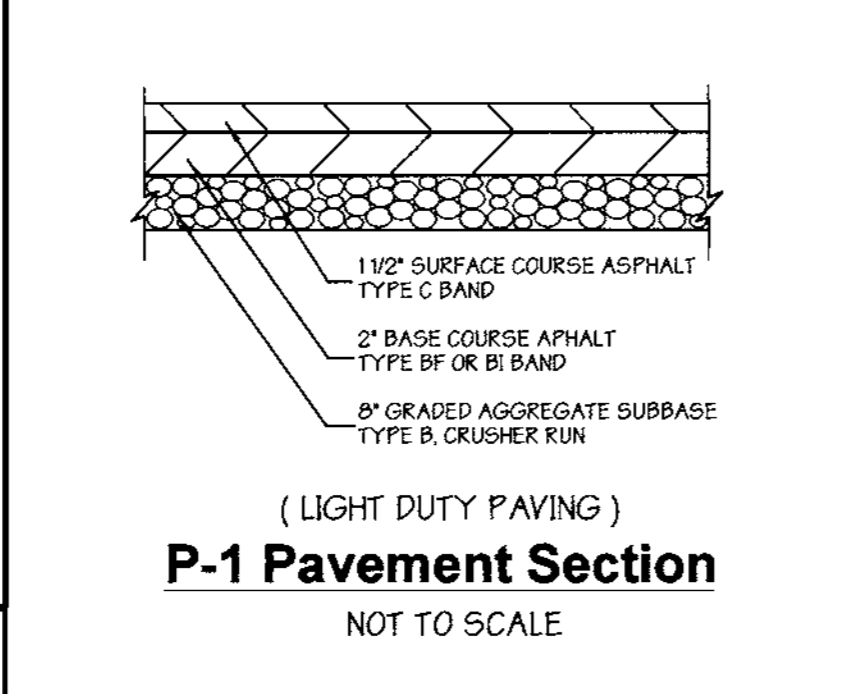
Solid Waste Service Pad

NOT TO SCALE



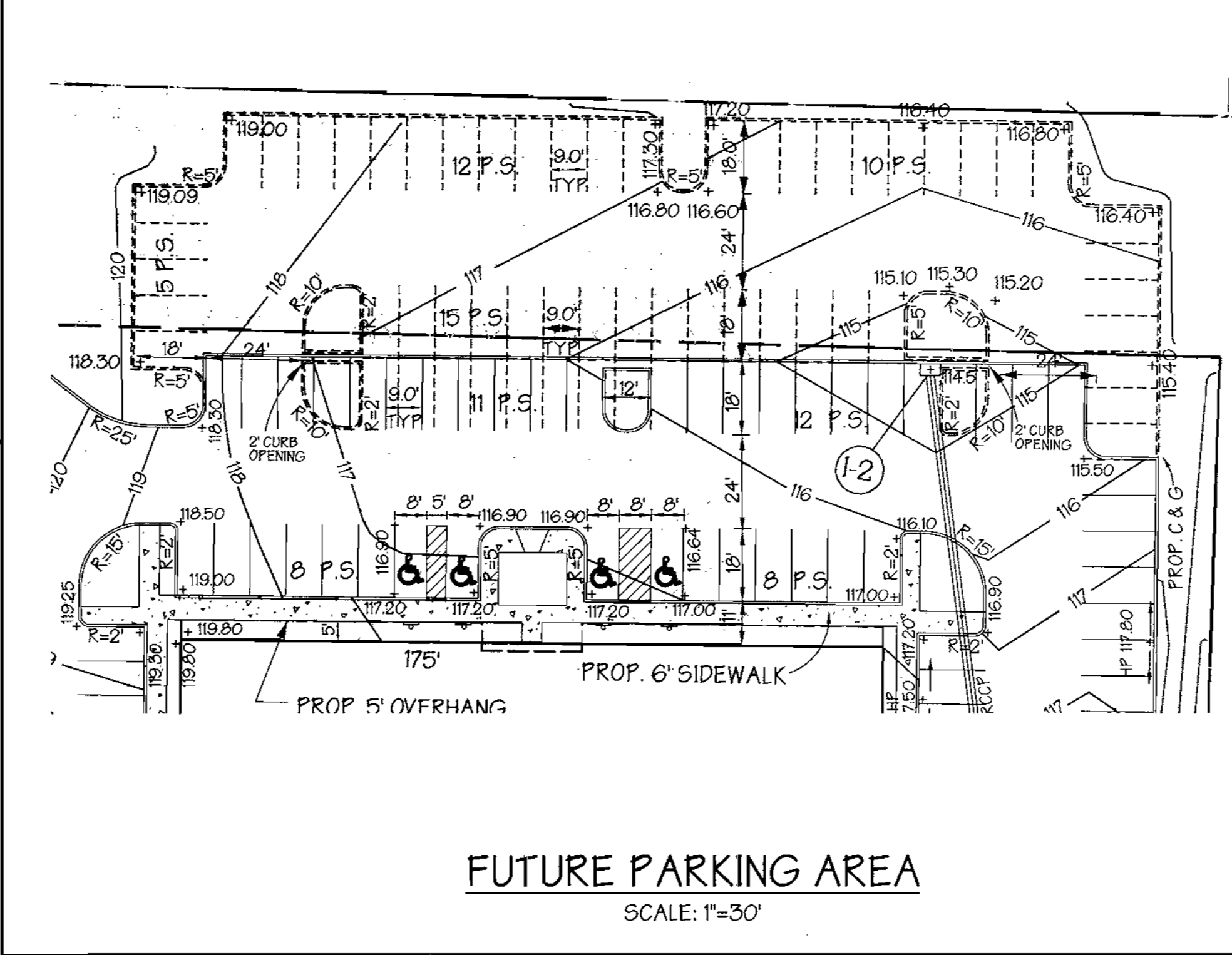
SECTION B-B

SCALE: HORZ.: 1" = 100'
VERT.: 1" = 10'



P-1 Pavement Section

NOT TO SCALE



FUTURE PARKING AREA

SCALE: 1" = 30'

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.		
APPROVED: HOWARD SOIL CONSERVATION DISTRICT		
PLAN NUMBER	DATE	
Reviewed for Howard SCD and meets Technical Requirements		
USDA-NATURAL RESOURCES CONSERVATION SERVICE	DATE	
APPROVED: Howard County Department of Planning and Zoning		
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE	TS
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE	e
DIRECTOR	DATE	9/6/00
ADDRESS CHART		
PARCEL NO.	STREET ADDRESS	
PARCEL #	DEERPATH ROAD 6865	
SUBDIVISION NAME		
DORSEY BUSINESS CENTER		
SECTION NAME	PARCEL #	
1	H	
PLAT #	BLOCK #	ZONE
14391	6	27.43
ELECT. DIST.		CENSUS TRACT
1		6069.01
WATER CODE		SEWER CODE
B-01		2220000

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors

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(410) 825-8120

OWNER/DEVELOPER

WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: K.U.
DRAWN BY: H.C.
CHECKED BY: T.H.
REVISIONS

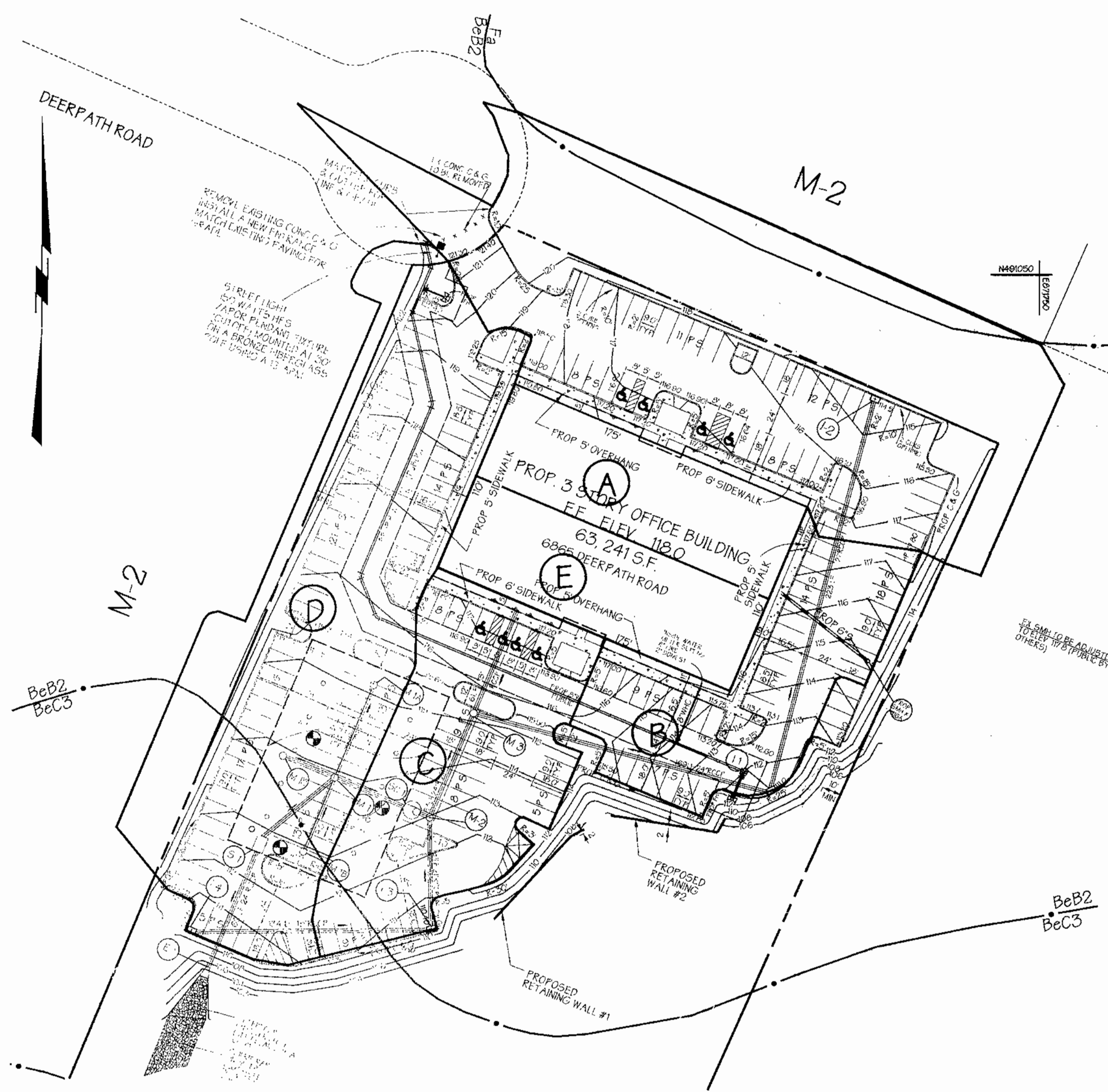
1/15/99 - REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS (Section 133, Zoning Regulations)

SITE & HANDICAP DETAILS
FOR
DORSEY BUSINESS CENTER
PARCEL 'H'-1

ELECTION DISTRICT: 1
HOWARD CO., MARYLAND

SDP-00-13
SCALE: As Shown
DATE: FEB. 17, 2000

SDP-00-13
SHT. 2 OF 14



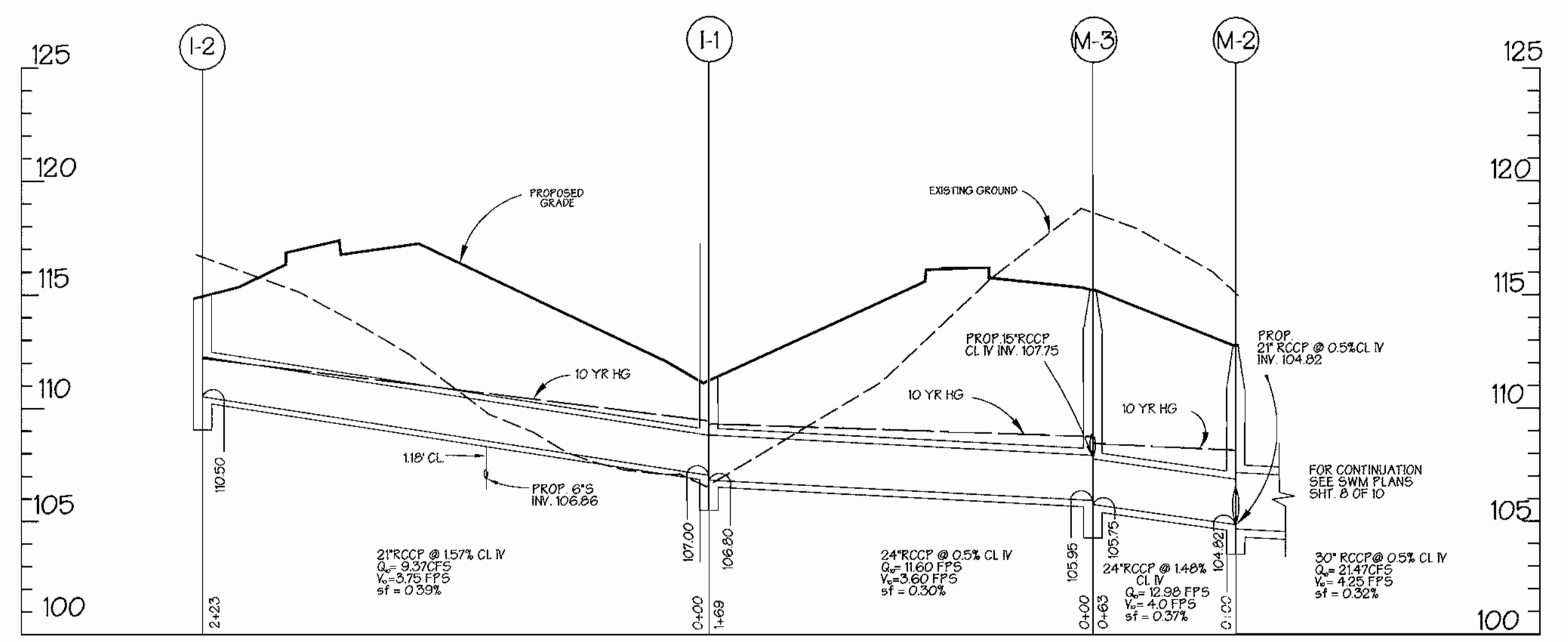
AREA	ACRAGE (AC)	C	% IMP
A	1.31	0.73	72.5
B	0.35	0.92	94.3
C	0.43	0.89	90.7
D	0.99	0.63	57.6
E	0.22	0.96	100.0

INLET SCHEDULE					
NO.	TYPE	INV. OUT	TOP ELEV	C (c.f.s.)	REMARKS
I-1	DR/S/COMP	106.80	110.0	116.0	SD 4.34
I-2	DR/S/COMP	110.50	114.5	9.37	SD 4.34
I-3	DR/S/COMP	105.13	110.40	9.32	SD 4.34
I-4	DR/S/COMP	106.00	110.00	6.05	SD 4.34

MANHOLE SCHEDULE					
NO.	TYPE	SIZE	INV. OUT	TOP ELEV	REMARKS
M-2	PRECAST	48"	104.62	113.0	G 5.13
M-3	PRECAST	48"	108.75	115.0	G 5.12
M-1	A-5	---	105.75	113.90	SD 4.01 MODIFIED*
M-1A	A-5	---	---	115.25	SD 4.01 MODIFIED*
M-1B	A-5	---	---	112.90	SD 4.01 MODIFIED*
M-1C	A-5	---	---	113.90	SD 4.01 MODIFIED*

STRUCTURE SCHEDULE					
NO.	TYPE	SIZE	INV. OUT	TOP ELEV	REMARKS
E-1	CONC. END SECTION	24"	102.00	---	G.D. 5.11
SC-1	STORMCEPTOR	---	104.46	113.25	STC 3600*
S-1	RELEASE STRUCTURE	---	102.75	112.60	---

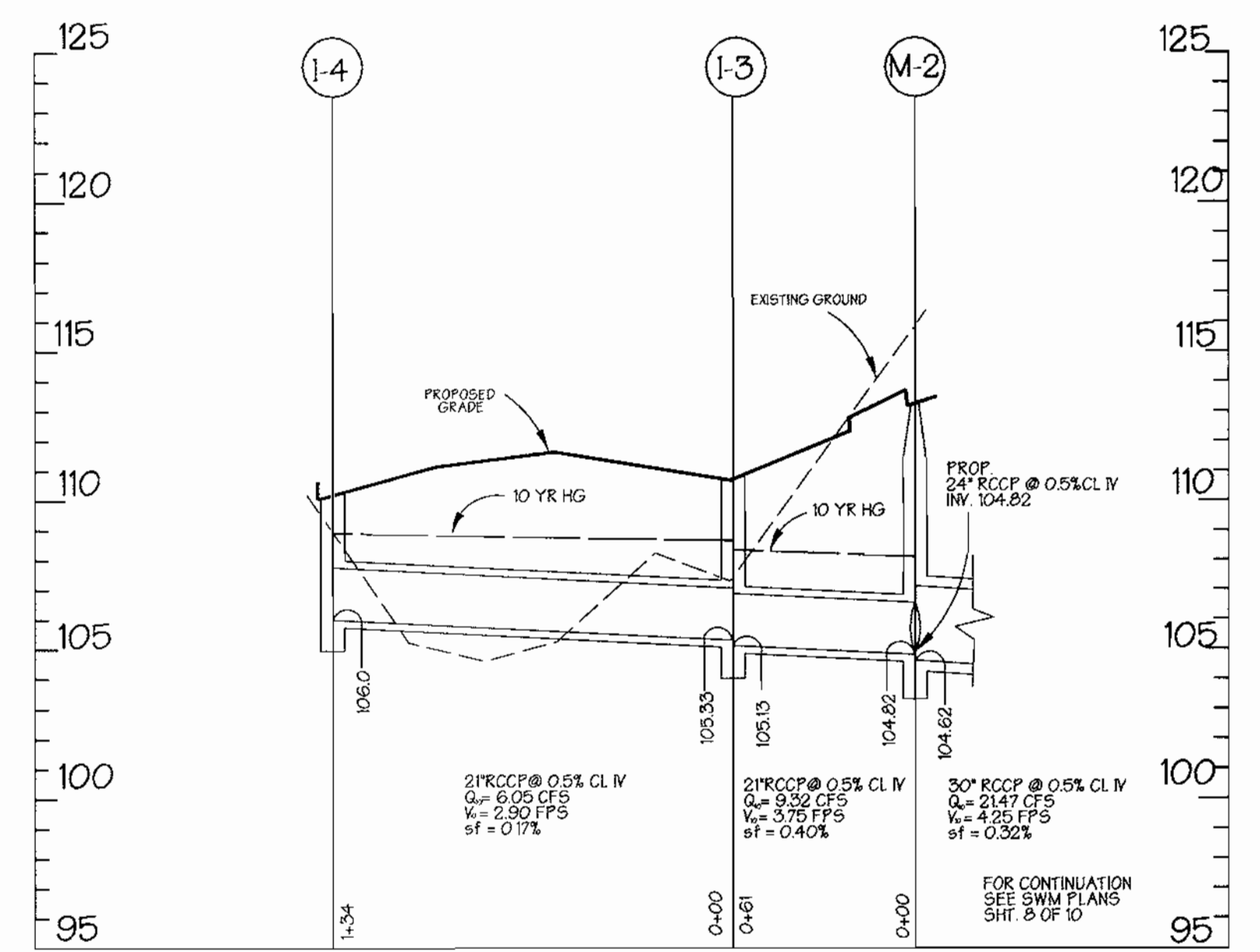
* SEE DETAIL SHEET 8 AND 9 OF 10



STORM DRAIN PROFILE

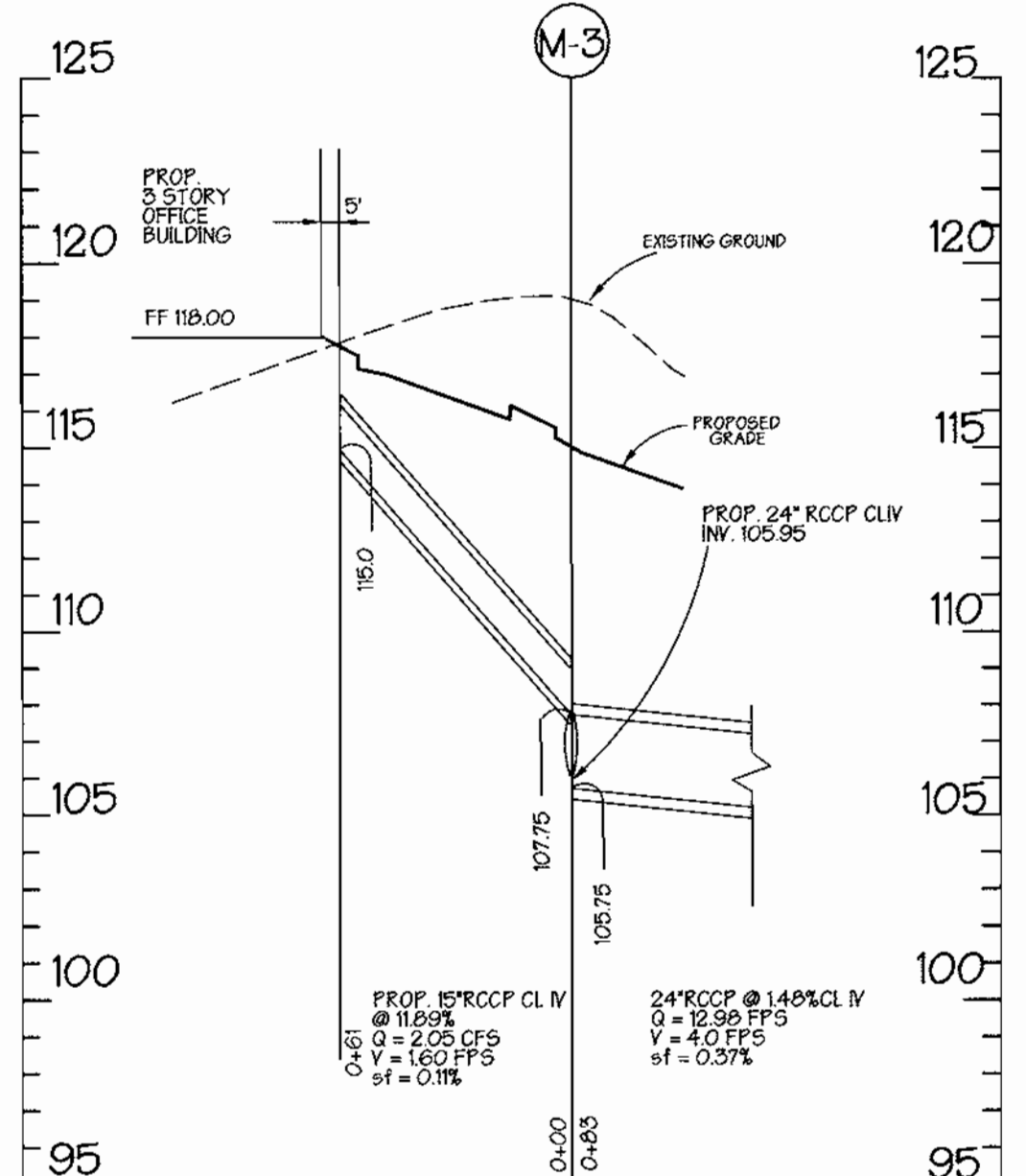
SCALE: HORZ: 1"=50'
VERT: 1"=5'

DRAINAGE AREA MAP
SCALE: 1"=50'



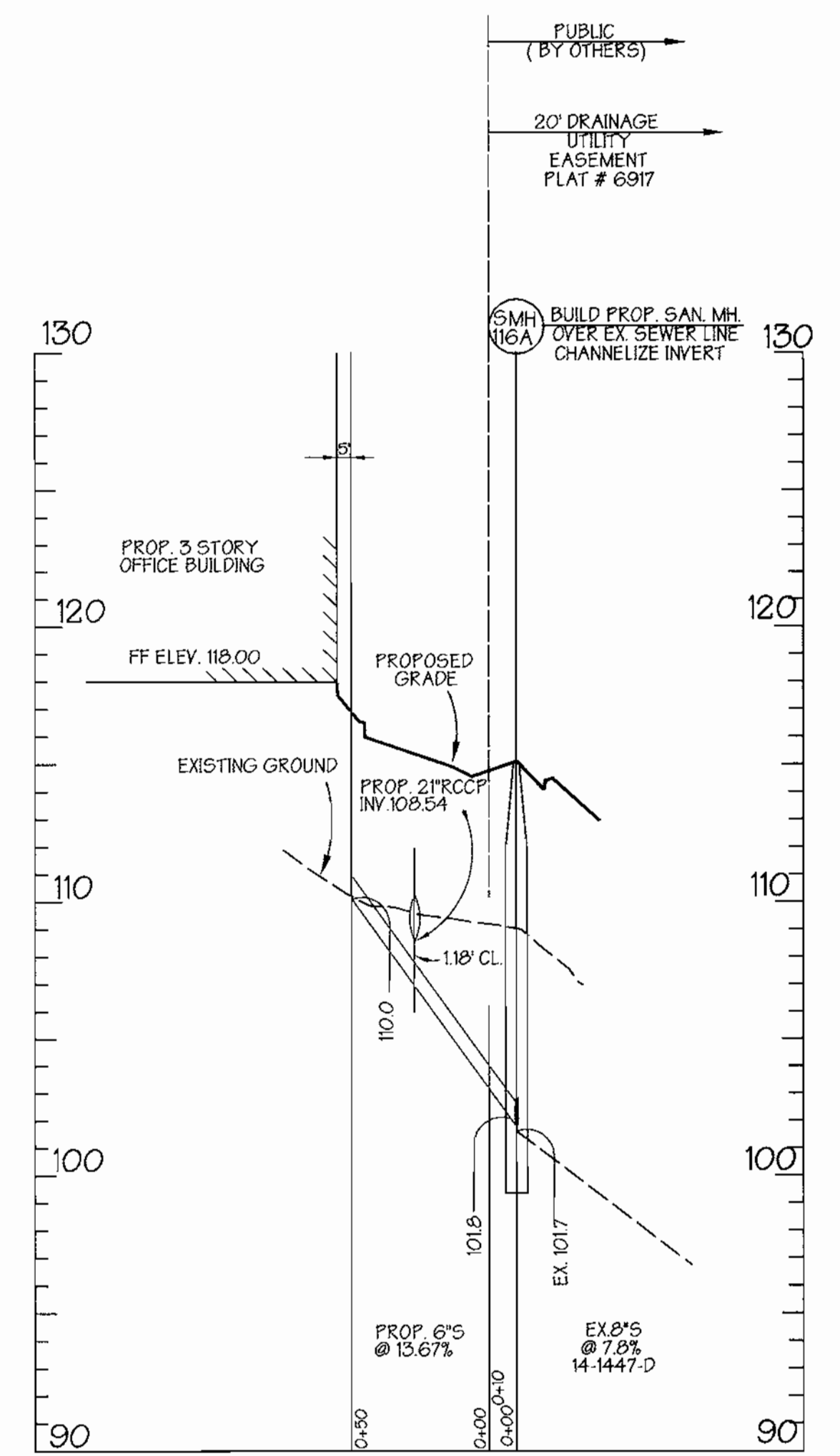
STORM DRAIN PROFILE

SCALE: HORZ: 1"=50'
VERT: 1"=5'



STORM DRAIN PROFILE

SCALE: HORZ: 1"=50'
VERT: 1"=5'



SANITARY SEWER PROFILE

SCALE: HORZ: 1"=50'
VERT: 1"=5'

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT

PLAN NUMBER _____ DATE _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/7/00

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/1/00

DIRECTOR DATE 9/6/00

ADDRESS CHART

PARCEL NO. _____ STREET ADDRESS _____

PARCEL # _____ DEERPATH ROAD 6865

SUBDIVISION NAME _____ SECTION NAME _____ PARCEL # _____

DORSEY BUSINESS CENTER 1 H

PLAT # 1991 BLOCK # 6 ZONE / ZONE MAP 1 ELECT. DIST. 6069.01

WATER CODE B-01 SEWER CODE 2220000

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.

Civil Engineers and Land Surveyors

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DESIGNED BY: K.U.
DRAWN BY: H.C.
CHECKED BY: T.H.

REVISIONS

11/15/99
REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS (Section 153, Zoning Regulations)

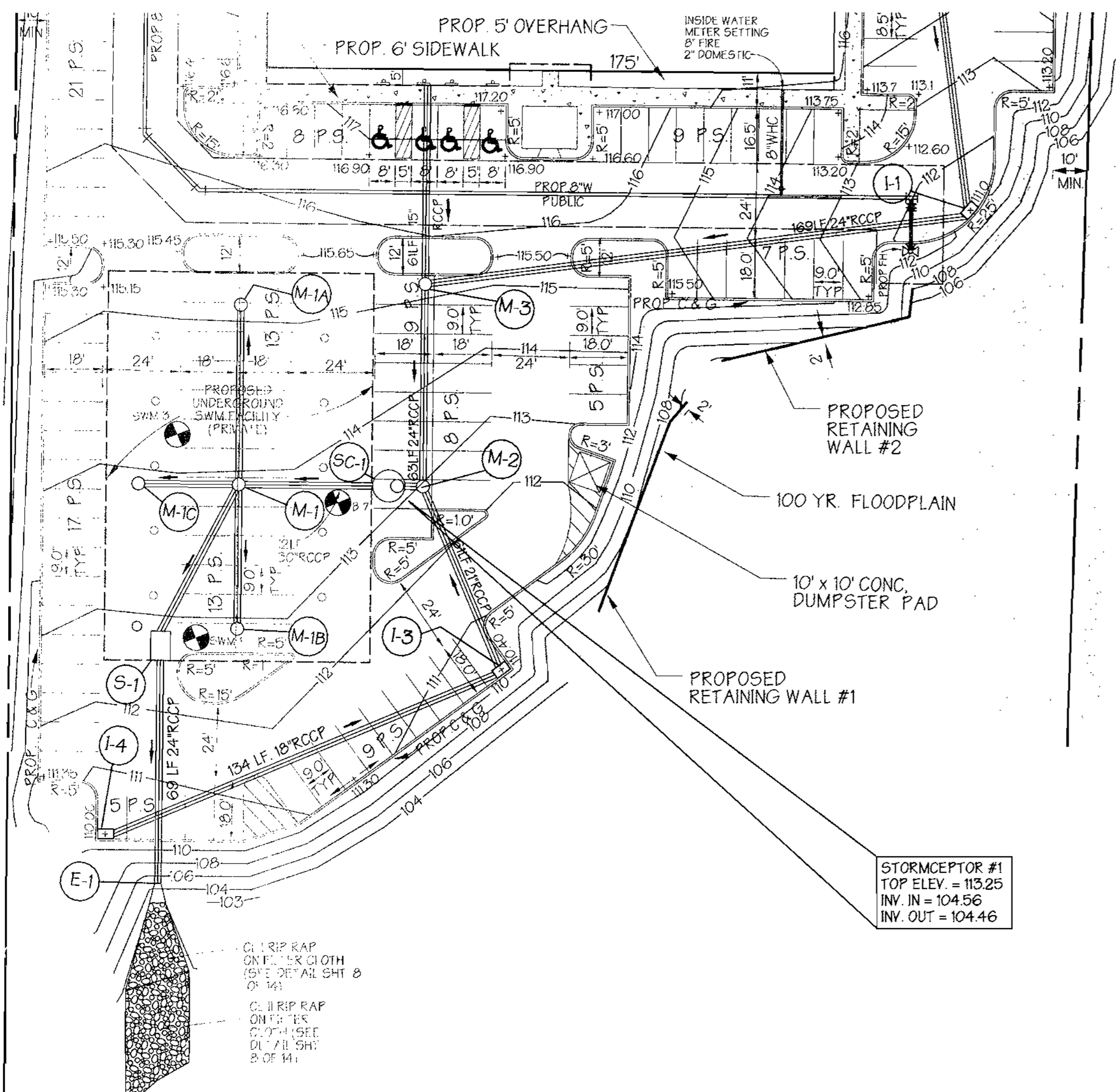
STORM DRAIN & SEWER PROFILES

FOR
DORSEY BUSINESS CENTER
PARCEL #1-1

ELECTION DISTRICT: 1
HOWARD COUNTY, MD

SHEET 3 OF 14

SDP-00-13
SCALE: AS SHOWN
FEB. 17, 2000



PLAN
SCALE: 1" = 30'

10 Installation Procedures

11 Concrete Stormceptor® Installation

The installation of the concrete Stormceptor® should conform in general to state highway or local specifications for the construction of manholes. Selected sections of a general specification that are applicable are summarized in the following sections:

Excavation

Excavation for the installation of the Stormceptor® should conform to state highway or local specifications. Topsoil that is removed during the excavation for the Stormceptor® should be stockpiled in designated areas and should not be mixed with subsoil or other materials. Topsoil stockpiles, and the general site preparation for the installation of the Stormceptor® should conform to state highway or local specifications.

The Stormceptor® should not be installed on frozen ground. Excavation should extend a minimum of 12 inches from the precast concrete surfaces plus an allowance for shoring and bracing where required. If the bottom of the excavation provides an unsuitable foundation additional excavation may be required.

In areas with a high water table, continuous dewatering should be provided to ensure that the excavation is stable and free of water.

Leveling

A 6 to 12 inch layer of granular material (conforming to local or state highway backfill specifications) should be installed, compacted, and leveled at the bottom of the excavation to the proper elevation for the installation of the Interceptor base.

Backfilling

Backfill material should conform to state highway or local specifications. Generally, backfill material should be placed in uniform layers not exceeding 12 inches in depth. Each layer should be compacted to 95% of the maximum dry density. Backfill is not to contain topsoil.

Stormceptor® Construction Sequence

The concrete Stormceptor® is installed in sections in the following sequence:

1. aggregate base
2. base slab
3. treatment chamber section(s)
4. transition slab (if required)
5. by-pass section
6. connect inlet and outlet pipes
7. transition slab
8. maintenance access way
9. frame and access cover

The precast base should be placed level at the specified grade. The entire base should be in contact with the underlying compacted granular material. Subsequent sections, complete with joint seals, should be installed in accordance with the precast concrete manufacturer's recommendations.

Adjustment of the Stormceptor® can be performed by lifting the upper sections free of the excavated area, re-leveling the base, and re-installing the sections. Damaged sections and gaskets should be replaced. Once the Stormceptor® has been constructed, the lift holes should be plugged with mortar.

Down Pipe and Riser Pipe

Once the by-pass section has been attached to the treatment chamber the down pipe and riser pipe can be attached. To install these pipes a worker enters the treatment chamber through the central access way in the by-pass section.

STC 900, STC 1200, STC 1800

The inlet pipe (pipe with the tee at the end) is installed by coating the outside of the end of the pipe with quick dry PVC cement and pushing the pipe into the coupling provided on the underside of the by-pass section. The tee must be oriented such that water which enters the treatment chamber is directed tangentially around the inside walls of the chamber.

The outlet riser pipe (straight pipe without the tee) is installed in a similar fashion using the quick dry PVC cement and coupling provided underneath the by-pass section near the downstream pipe.

STC 2400, STC 3600, STC 4800, STC 6000, STC 7200

The inlet pipe (pipe with the tee at the end) is installed by coating the outside of the end of the pipe with lubricant and pushing the pipe into the pressure coupling provided on the underside of the by-pass section. The tee must be oriented such that water which enters the treatment chamber is directed tangentially around the inside walls of the chamber.

The outlet riser pipe (straight pipe without the tee) is installed in a similar fashion using pipe lubricant and a pressure coupling provided underneath the by-pass section near the downstream pipe.

Inlet and Outlet Pipes

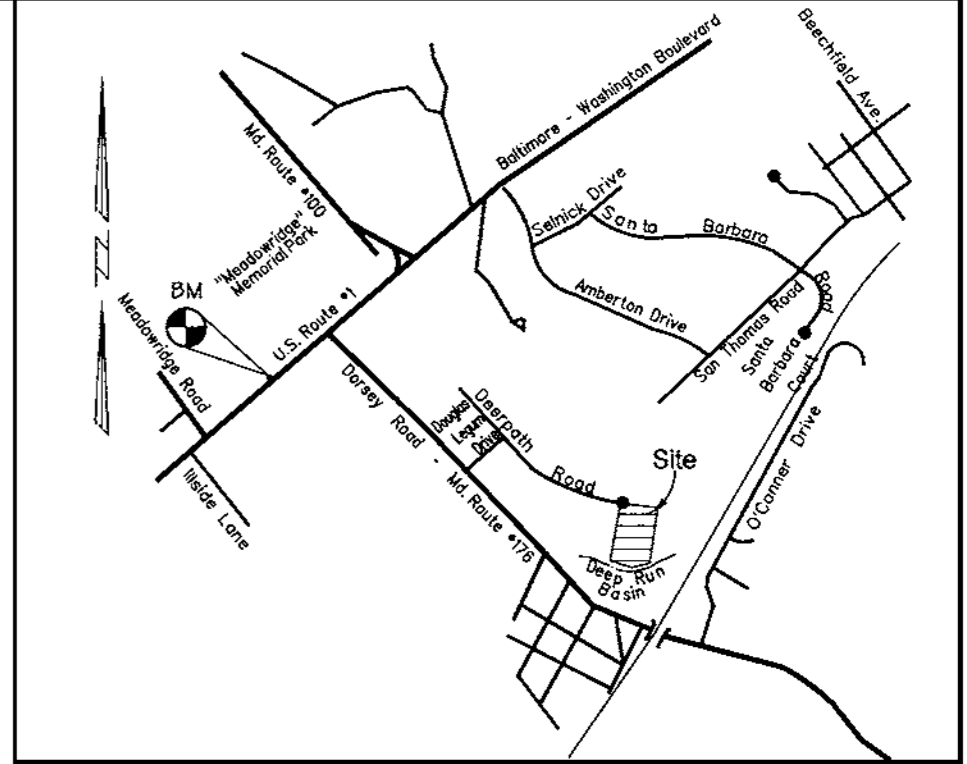
Inlet and outlet pipes should be securely set into the by-pass chamber using grout or approved pipe seals so that the structure is watertight. Kor-N-Seal® boots are normally used and installed at the precast concrete plant prior to shipping. The Kor-N-Seal® boots are applicable for pipes with an outside diameter up to 46 inches. Stormceptor Corporation should be notified if the pipe is to be grouted in the field at the time of ordering (i.e. Kor-N-Seal® boots will not be used) since the boots are generally included in the price quotations.

Installation of the Kor-N-Seal® boots should follow the manufacturer's recommendations. As previously mentioned, the boots will already be attached to the Stormceptor® at the concrete plant. Accordingly, the following procedure should be followed to attach the inlet and outlet pipes to the Stormceptor® in the field:

1. Center the pipe in the boot opening
2. Lubricate the outside of the pipe and/or inside of the boot if the pipe outside diameter is the same as the inside diameter of the boot
3. Position the pipe clamp in the groove of the boot with the screw at the top
4. Tighten the pipe clamp screw to 60 inch pounds
5. On minimum outside diameter installations lift the boot such that it contacts the bottom of the pipe while tightening the pipe clamp to ensure even contraction of the rubber.
6. Move the pipe horizontally and/or vertically to bring it to grade

Frame and Cover Installation

Precast concrete adjustment units should be installed to set the frame and cover at the required elevation. The adjustment units should be laid in a full bed of mortar with successive units being joined using sealant recommended by the manufacturer. Frames for the cover should be set in a full bed of mortar at the elevation specified.

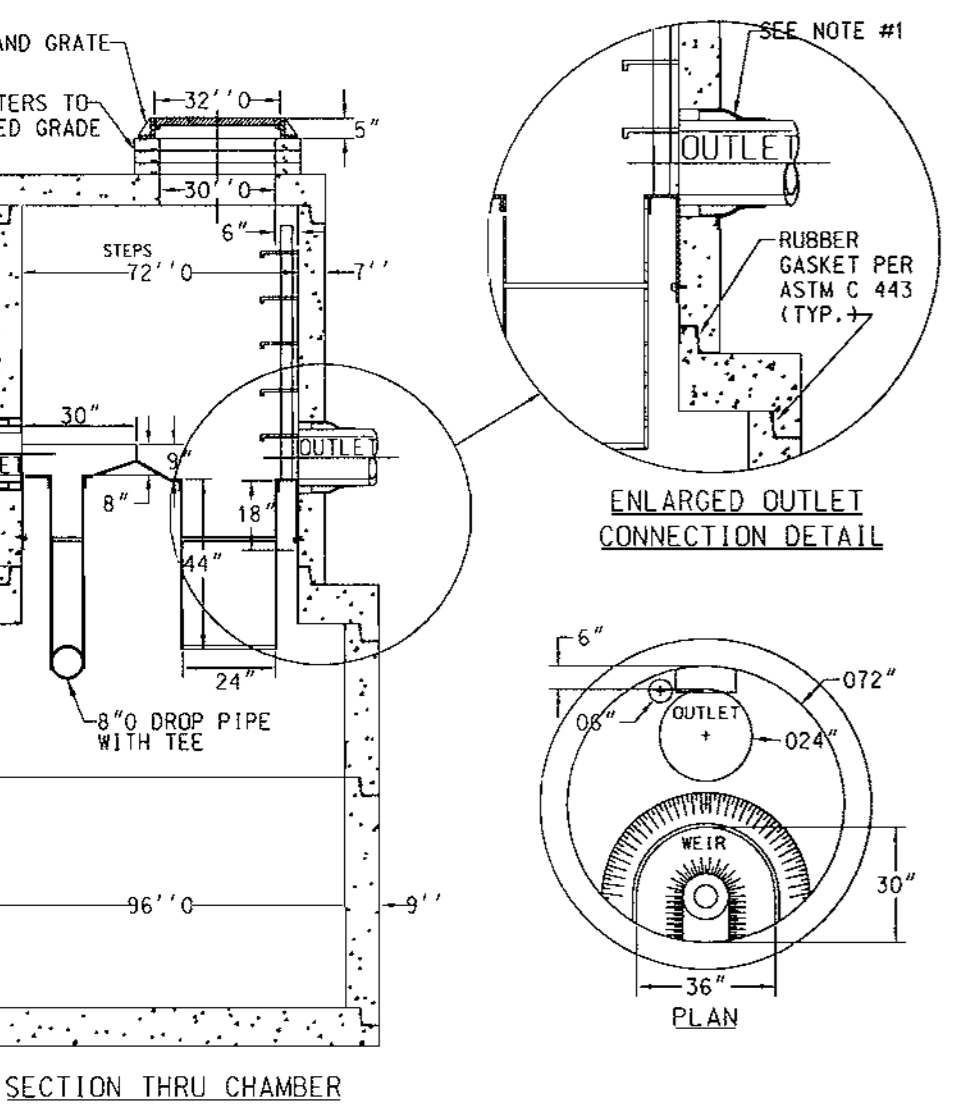


LOCATION MAP
SCALE: 1" = 2000'

BENCHMARK:

HUB # 371A ELEV 59.6633
DISC SET ON TOP OF CONCRETE (3" DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 1.15' FROM R/W LINE.

STC 3600 Precast Concrete Stormceptor®
(3600 US Gallon Capacity)
(Disc Design)
IMPERVIOUS AREA = 2.35 Ac ±



NOTE:

1. FLEXIBLE CONNECTIONS ARE RECOMMENDED AT THE INLET AND OUTLET FROM APPLICATIONS.
2. COVER TO BE POSITIONED OVER OUTLET AND VENT PIPE REPRESENTATIVE FOR SPECIAL CONDITIONS.
3. THIS IS A GENERAL ARRANGEMENT DRAWING. CONSULT LOCAL REPRESENTATIVE FOR SPECIAL CONDITIONS.
4. INLET DROP PIPE SHALL BE EITHER 8" TO 12" WITH A 90° DRIFTED FLANGE.
5. ALL CONCRETE JOINTS HAVE RUBBER GASKETS THAT CONFORM TO ASTM C 443.
6. U.S. PATENT NO. 4,362,144

REVISIONS:

1	ADD C 443	REVISED 10/98
2	BASE WEIGHT = 11,28 LBS	REVISED 10/98

Concrete Stormceptor® Order Request Form

Contractor Information

Name: _____
Address: _____
City: _____
State: _____
Zip Code: _____
Contract: _____
Phone: _____
Fax: _____

Office Use Only

Order # _____
Date _____
Internal Sale _____

Owner Information

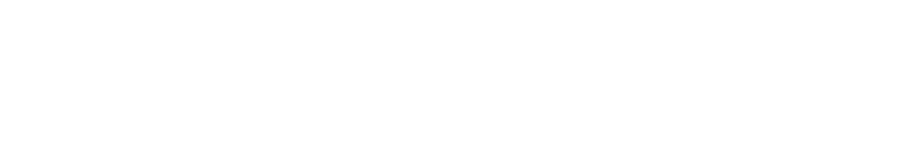
Name: WHALEN PROPERTIES, L.L.C.
Phone: (410) 747-2900
Fax: (410) 747-2902

Stormceptor® Model	Insert Size	Manhole Number	Top Elevation (ft)	Inlet Pipe Invert (ft)	Outlet Pipe Invert (ft)	Pipe Type	Pipe Inside Diameter (in) [ID]	Pipe Outside Diameter (in) [OD]
900	22"	SC-1	113.25			RCCP/ALCMP	30.0	37.05
1200	32"		104.56					
1800	44"		104.46					
2400	Custom							

Project Name: DORSEY BUSINESS CENTER
Approximate Time (days until required delivery) (week): _____
Delivery Address: Street _____ State _____ Zip Code _____
City _____
Designer Company _____
Designer Contact _____ Phone _____ Fax _____

Please fax this order to stormceptor at (301) 762-4190
For Technical Assistance Please Call Stormceptor Corporation at (301) 762-8361 or toll free at 1 (800) 762-4703

ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR



OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY DEVICE

1. The Stormceptor water quality structure shall be periodically inspected and cleaned to maintain operation and function. The owner shall inspect the Stormceptor unit yearly at a minimum, utilizing the Stormceptor Inspection Monitoring Form. Inspections shall be done by using a clear Plexiglass tube ("sludge judge") to extract a water column sample. When the sediment depths exceed the level specified in Table 6 of the Stormceptor Technical Manual, the unit must be cleaned.
2. The Stormceptor water quality structure shall be checked and cleaned immediately after petroleum spills. The owner shall contract the appropriate regulatory agencies.
3. The maintenance of the Stormceptor unit shall be done using a vacuum truck which will remove the water, sediment, debris, floating hydrocarbons and other materials in the unit. Proper cleaning and disposal of the removed materials and liquid must be followed by the owner.
4. The inlet and outlet pipes shall be checked for any obstructions at least once every six months. If obstructions are found the owner shall have them removed. Structural parts of the Stormceptor unit shall be repaired as needed.
5. The owner shall retain and make the Stormceptor Inspection/Monitoring Forms available to the Howard County Officials upon their request.

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120

ENGINEER CERTIFICATION:

I 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 that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Engineer: *James A. Markle, Jr.* Date: 7/13/00
Name: JAMES A. MARKLE, JR. PE # 11005

DEVELOPER CERTIFICATION:

I/We certify that all development and construction will be done according to this plan, and that any 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.

Developer: *Stephen W. Whalen, Jr.* Date: 07/13/00
Name: STEPHEN W. WHALEN, JR.

OWNER/DEVELOPER

WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: K.U.
DRAWN BY: H.C.
CHECKED BY: T.H.
REVISIONS

W/15/99 - REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 133, Zoning Regulations)

STORMCEPTOR PLAN FOR DORSEY BUSINESS CENTER PARCEL H-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD
SHEET 4 OF 14
SDP-00-13 SCALE: AS SHOWN FEB. 17, 2000

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
PLAN NUMBER _____ DATE _____
Reviewed for Howard SED and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/7/00
Richard Blomel CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/1/00
DATE 9/6/00

ADDRESS CHART

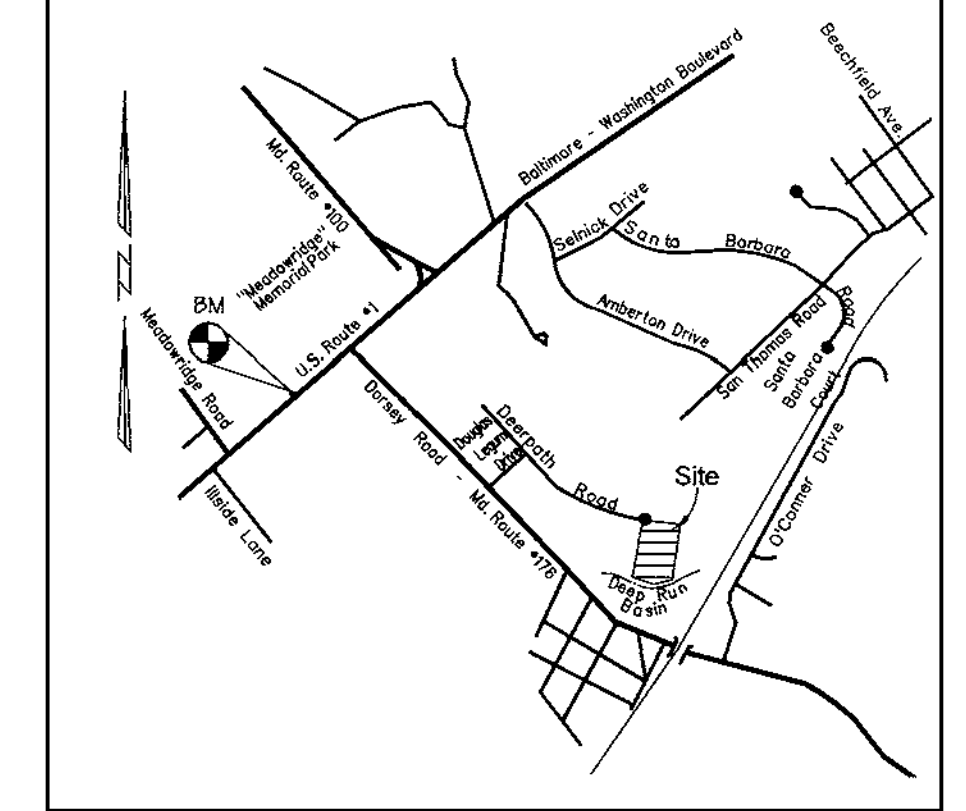
PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6865

SUBDIVISION NAME: DORSEY BUSINESS CENTER
SECTION NAME: 1
PARCEL #: H

PLAT # 14391 BLOCK # 6 ZONE / ZONE MAP 30.43 ELECT. DIST. 1 CENSUS TRACT 6069.01
WATER CODE B-01 SEWER CODE 2220000

Legend

- Ex. 2' Contours --- 394
- Ex. 10' Contours --- 395
- Prop. 2' Contours --- 394
- Prop. 10' Contours --- 395
- Ex. Curb & Gutter ---
- Prop. Curb & Gutter ---
- Prop. Curb & Gutter ---
- Ex. Sanitary ---
- Ex. Storm Drain ---
- Ex. Water ---
- Prop. Sanitary ---
- Prop. Storm Drain ---
- Prop. Water ---
- Concrete Paving ---
- Light Duty Paving (P-3) ---
- Wetlands ---
- Flood Plain ---
- Ex. Conc. C&G to be Removed ---
- Proposed Reverse Conc. c & g ---
- Ex. Trees ---
- Limit of Disturbance --- LOD ---
- Silt Fence --- SF ---
- Stabilized Construction Entrance --- SCE ---
- Gabion Slope Protection ---
- Earth Dike --- A-2 ---
- Removable Pumping Station (RPS) ---



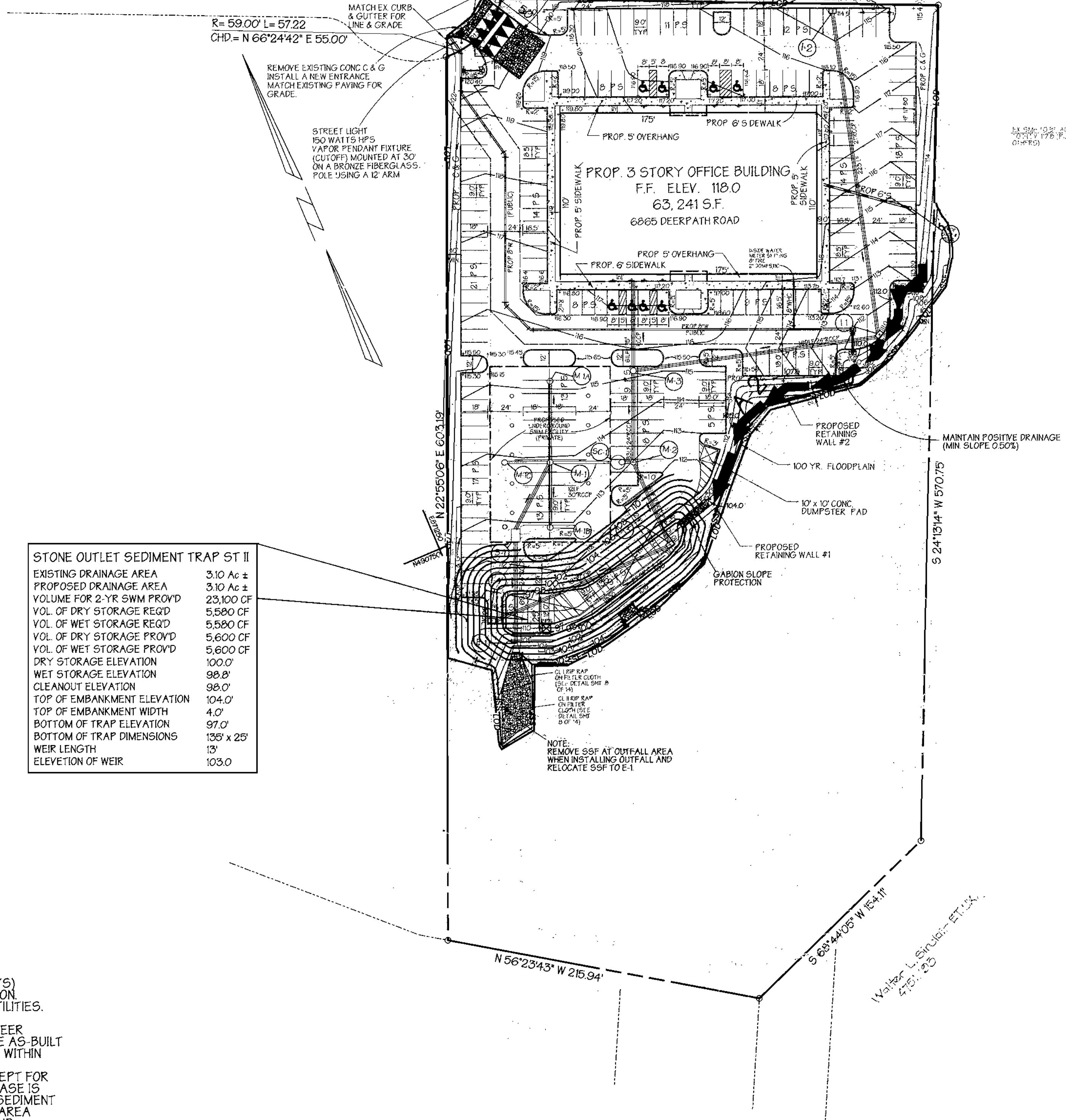
VICINITY MAP
SCALE: 1" = 2000'

BENCHMARK:

HUB # 371A ELEV 59.6633
DISC SET ON TOP OF CONCRETE (3 DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 15' FROM R/W LINE.

NOTE:
APPLICATION TRACKING NUMBER: 199964884
N.T.W. DIVISION NUMBER: 99-NI-0306
PROJECT: PROPOSED CONSTRUCTION OF STORMWATER OUTFALL IN THE 100-YR FLOODPLAIN OF THE DEEP RUN LOCATED AT DEERPATH ROAD IN HALETHORPE, HOWARD COUNTY, MARYLAND

DEERPATH RD
(PUBLIC INTERNAL)



STONE OUTLET SEDIMENT TRAP ST II

EXISTING DRAINAGE AREA	3.10 Ac ±
PROPOSED DRAINAGE AREA	3.10 Ac ±
VOLUME FOR 2-YR SWM PROVID	23,100 CF
VOL OF DRY STORAGE REQ'D	5,580 CF
VOL OF WET STORAGE REQ'D	5,580 CF
VOL OF DRY STORAGE PROVID	5,600 CF
VOL OF WET STORAGE PROVID	5,600 CF
DRY STORAGE ELEVATION	100.0'
WET STORAGE ELEVATION	98.8'
CLEANOUT ELEVATION	96.0'
TOP OF EMBANKMENT ELEVATION	104.0'
TOP OF EMBANKMENT WIDTH	4.0'
BOTTOM OF TRAP ELEVATION	97.0'
BOTTOM OF TRAP DIMENSIONS	135' x 25'
WEIR LENGTH	13'
ELEVATION OF WEIR	103.0'

SEQUENCE OF OPERATIONS

- OBTAIN GRADING PERMIT.
- NOTIFY THE HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES 48 HOURS BEFORE BEGINNING WORK. (1 DAY)
- INSTALL STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)
- INSTALL ALL SEDIMENT CONTROL DEVICES. (3 DAYS)
- WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, BEGIN GRADING OPERATIONS. MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL DEVICES. (10 DAYS)
- BEGIN BUILDING FOOTINGS AND BUILDING CONSTRUCTION. (4 DAYS)
- BEGIN UNDERGROUND STORM WATER MANAGEMENT CONSTRUCTION (SEE APPROVED STORM WATER MANAGEMENT PLANS). INSTALL UTILITIES IN TRAP AREA TO BE INSTALLED WHEN TRAP IS REMOVED. PROVIDE INLET PROTECTION WHERE NECESSARY. NOTIFY THE ENGINEER IN CHARGE (410) 825-8120, SO THAT HE OR SHE MAY COMPLETE THE AS-BUILT SURVEY AND STUDY AND, SUBMIT TO THE APPROPRIATE AGENCIES WITHIN 30 DAYS. (14 DAYS)
- FINE GRADE AND INSTALL CURB & GUTTER AND STONE BASE EXCEPT FOR TRAP AREA. INSTALL RETAINING WALLS #1 AND #2. WHEN STONE BASE IS INSTALLED AND SITE IS STABILIZED, WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE TRAP AND EARTH DIKE. GRADE THIS AREA. INSTALL REMAINING UTILITIES, CURB & GUTTER AND STONE BASE AND STABILIZE. (24 DAYS)
- PAVE ALL AREAS, COMPLETE LANDSCAPING AND STABILIZE. (10 DAYS)
- AFTER ALL AREAS ARE PERMANENTLY STABILIZED, AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES. STABILIZE ANY AREA AFFECTED BY THIS PROCESS. (5 DAYS)

PLAN
SCALE: 1" = 50'

LIMIT OF DISTURBANCE = 3.25 Ac ± OR 141,570 SF

INLET PROTECTION

THE CONTRACTOR IS REQUIRED TO INSTALL INLET PROTECTION ON ALL STORM DRAIN INLETS WITH THE EXCEPTION OF THE FOLLOWING:

- ANY INLET OUTFALLING DIRECTLY INTO A SEDIMENT TRAPPING DEVICE.
- INLETS ON PRIVATE OR PUBLIC PAVED ROADWAYS OPEN TO THE PUBLIC.

ALL INLET PROTECTION WILL BE INSTALLED AS DIRECTED BY THE INSPECTOR IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PAGE E-16-1 (OR AS MAY BE AMENDED).

STORM DRAINS TO BE FLUSHED PRIOR TO TRAPPING DEVICE REMOVAL.

NOTE:
THIS PLAN IS TO BE USED FOR THE INSTALLATION AND MAINTENANCE OF THE SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES ONLY. SEE SITE PLAN FOR MORE SPECIFIC DETAILS.

NOTE:
EARTH QUANTITIES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR IS ADVISED TO PERFORM HIS OWN ANALYSIS PRIOR TO PLACING A BID ON THIS ITEM.

NOTE:
FOR SEDIMENT CONTROL NOTES AND DETAILS, SEE SHEET 6 OF 10.

NOTE:
ANY AREA NEEDED FOR TEMPORARY STOCKPILE WILL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE AND UPSTREAM FROM A SEDIMENT CONTROL MEASURE, BUT LOCATED SUCH AS NOT TO IMPEDE UPON THE MEASURE.

NOTE:
SPOT ELEVATIONS ALONG A-2 DIKE ARE FOR PROPOSED CONDITIONS.

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120

ENGINEER CERTIFICATION:
"I 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."

Signature of Engineer: *James A. Markle, Sr.* Date: 7/13/00
Print Name: JAMES A. MARKLE, SR. PE # 11005

DEVELOPER CERTIFICATION:
"I certify that all developments 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 a Department of 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."

Signature of Developer: *Stephen W. Whalen, Jr.* Date: 6/13/00
Print Name: STEPHEN W. WHALEN, JR.

OWNER/DEVELOPER

WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: B.F./K.U.
DRAWN BY: H.C.
CHECKED BY: B.F.
REVISIONS:
1/15/99
REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (SECTION 123, ZONING REGULATIONS)

SEDIMENT & EROSION CONTROL PLAN FOR DORSEY BUSINESS CENTER PARCEL H-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD
SHEET 5 OF 14
SDP-00-13
SCALE: AS SHOWN
FEB. 17, 2000

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED HOWARD SOIL CONSERVATION DISTRICT: *Richard Blood* DATE: 7/25/00

PLAN NUMBER: [blank] DATE: [blank]

Reviewed for Howard SCD and meets Technical Requirements
USDA-NATURAL RESOURCES CONSERVATION SERVICE: *Cheryl Smith/63* DATE: 7/25/00

APPROVED: Howard County Department of Planning and Zoning
CHIEF, DEVELOPMENT ENGINEERING DIVISION: *Richard Blood* DATE: 8/1/00
CHIEF, DIVISION OF LAND DEVELOPMENT: *Richard Blood* DATE: 8/1/00
DIRECTOR: *Richard Blood* DATE: 9/6/00

ADDRESS CHART
PARCEL NO. [blank] STREET ADDRESS [blank]
PARCEL # DEERPATH ROAD 6865

SUBDIVISION NAME	SECTION NAME	PARCEL #
DORSEY BUSINESS CENTER	1	H
PLAT # 14391	BLOCK # 6	ZONE # 3743
WATER CODE B-01	ELECT. DIST. 1	CENSUS TRACT 6069.01
	SEWER CODE 2220000	

Stabilization Specifications

Section I - Vegetative Stabilization Methods and Materials

A. Site Preparation

- Install erosion and sediment control structures (either temporary or permanent) such as berms, grade stabilization structures, berms, waterways, or sediment control basins.
- Perform all grading operations at right angles to the final grading and slope to be not easily necessary for temporary seeding.

B. Soil Amendments (Fertilizer and Lime Specifications)

- Soil tests must be performed to determine the exact analysis and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Test samples may be taken for engineering purposes may also be used for chemical analysis.
- Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall be applied to the soil fully according to the application rate fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
- Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contain at least 90% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #200 mesh sieve and 80% will pass through a #100 mesh sieve.
- Incorporate lime and fertilizer into the top 3" of soil by tilling or other suitable means.

C. Seeded Preparation

- Temporary Seeding
 - Seeds preparation shall consist of loosening soil to a depth of suitable agricultural or construction equipment, such as disc harrows or chisel plows or ripper mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth but left in the required condition. Sloped areas (greater than 3%) should not be tilled leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
- Permanent Seeding
 - Minimum soil conditions required for permanent vegetative establishment
 - Soil pH shall be between 6.0 and 7.0
 - Soil salinity shall be less than 500 parts per million (ppm)
 - The soil salinity conditions for permanent seeding shall be as follows: (a) salinity (ppm) plus dry to provide the capacity to hold a moderate amount of moisture. An exception is (b) overgrazed or serious salinization to be treated, then a sandy soil (< 20% silt plus clay) will be acceptable.
 - Soil shall contain 10% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by soil amendments, adding topsoil to required in accordance with Section 21.0 Standards and Specifications for Topsoil.
 - Areas previously graded in accordance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3" to 5" to permit tending of the soil on the surface area and to create horizontal erosion check slots to prevent runoff from taking down a slope.
 - Apply soil amendments as per soil test or as indicated on the plans.
 - Mix soil amendments into the top 3" of soil by tilling or other suitable means. Lawn areas should be rolled to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seeded preparation, loose surface soil or debris with a heavy chain or other equipment to roughen the surface. Sloop slopes (steeper than 3%) should be tracked to a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

D. Seed Specifications

- All seed must meet the requirements of the Maryland State Seed Law. All seeds shall be subject to re testing by a recognized seed laboratory. All seed used shall have been tested within the 12 months immediately preceding the date of sowing such material in the job.
- Incubant - The incubant for treating legume seed in the seed mixture shall be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Incubants shall not be used later than the date indicated on the container. Add fresh incubant as directed on package. Use four times the recommended rate when hydroseeding. NOTE: It is very important to keep incubant as cool as possible until use. Temperatures above 75 - 80 degrees F can weaken bacteria and make inoculant less effective.
- NOTE: SEED TAGS SHALL BE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.
- Methods of Seeding
 - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeder, or a outdragger seeder.
 - Fertilizer to be applied at the time of seeding. The application rates amounts will not exceed the following: nitrogen maximum of 100 lbs per acre total available nitrogen (P2O5 (phosphorus) 200 lbs/acre; K2O (potassium) 200 lbs/acre.
 - Lime - use only ground agricultural limestone (80% to 90% pure) may be applied by hydroseeding. Normally, no more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding: This includes use of conventional drop or broadcast spreaders.
 - Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 25 or 26. The seed rate shall be rolled with a weighted roller to provide good seed to soil contact.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seed rate in each direction.
 - Drill or Outdragger Seeding: Mechanical seeders that apply and seed with soil.
 - Outdragger seeders are required to bury the seed in such a fashion as to provide at least 1/4" inch of soil covering. Seeded areas shall be firm and free of ruts.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seed rate in each direction.
- Mulch Specifications (in order of preference)
 - Straw shall consist of thoroughly threshed wheat, rice or oat straw, reasonably bright in color, and shall be evenly, evenly cut, clean, dry, and free of any dirt or other foreign matter. It shall be applied in accordance with the application rates specified in the Maryland Seed Law.
 - Wood Cellulose Fiber Mulch (WCFM)
 - WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous plastic state.
 - WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniform spread slurry.
 - WCFM including dye, shall contain no germination or growth inhibiting factors.
 - WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fibers which remain in uniform suspension in water under agitation and will blend with soil, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a mat on the ground cover, on application, having moisture absorbing and penetration properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCFM material shall contain no elements or compounds at concentration levels that will phytotoxic to the grass seedlings.
 - WCFM must conform to the following physical requirements: fiber length to approximately 10 mm, diameter approximately 1 mm, pH range of 4.0 to 9.5, ash content of 16% maximum and water holding capacity of 30% minimum.
 - NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
 - Matching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.

E. Seeding Rates

- Preferred: Apply 1.0 tons per acre dolomitic limestone (82% to 100%+) and 600 lbs. per acre 10-10-10 fertilizer (4 lbs / 1000 ft²) before seeding, harrow or disc into upper three inches of soil. At time of seeding apply 400 lbs per acre 30-0-0 uniform fertilizer (8 lbs / 1000 ft²).
- Acceptable: Apply 1.0 tons per acre dolomitic limestone (82% to 100%+) and 1000 lbs. per acre 10-10-10 fertilizer (20 lbs / 1000 ft²) before seeding, harrow or disc upper three inches of soil.

F. Seeding Rates

- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.
- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

G. Seeding Rates

- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.
- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

H. Seeding Rates

- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.
- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

I. Seeding Rates

- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.
- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

J. Seeding Rates

- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.
- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

K. Seeding Rates

- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.
- For areas receiving low maintenance, apply uniform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq. ft. (50 lbs/acre) in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

L. Seeding Rates

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Section II - Turfgrass Establishment

- Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high quality, heavily managed turf area. Recommended minimum certified Kentucky Bluegrass Cultivars must be 100%, certified Kentucky Bluegrass Cultivars 0-10% and 100% Kentucky Bluegrass Cultivars 10-100% of the mixture by weight.
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Section IV - Turfgrass Establishment

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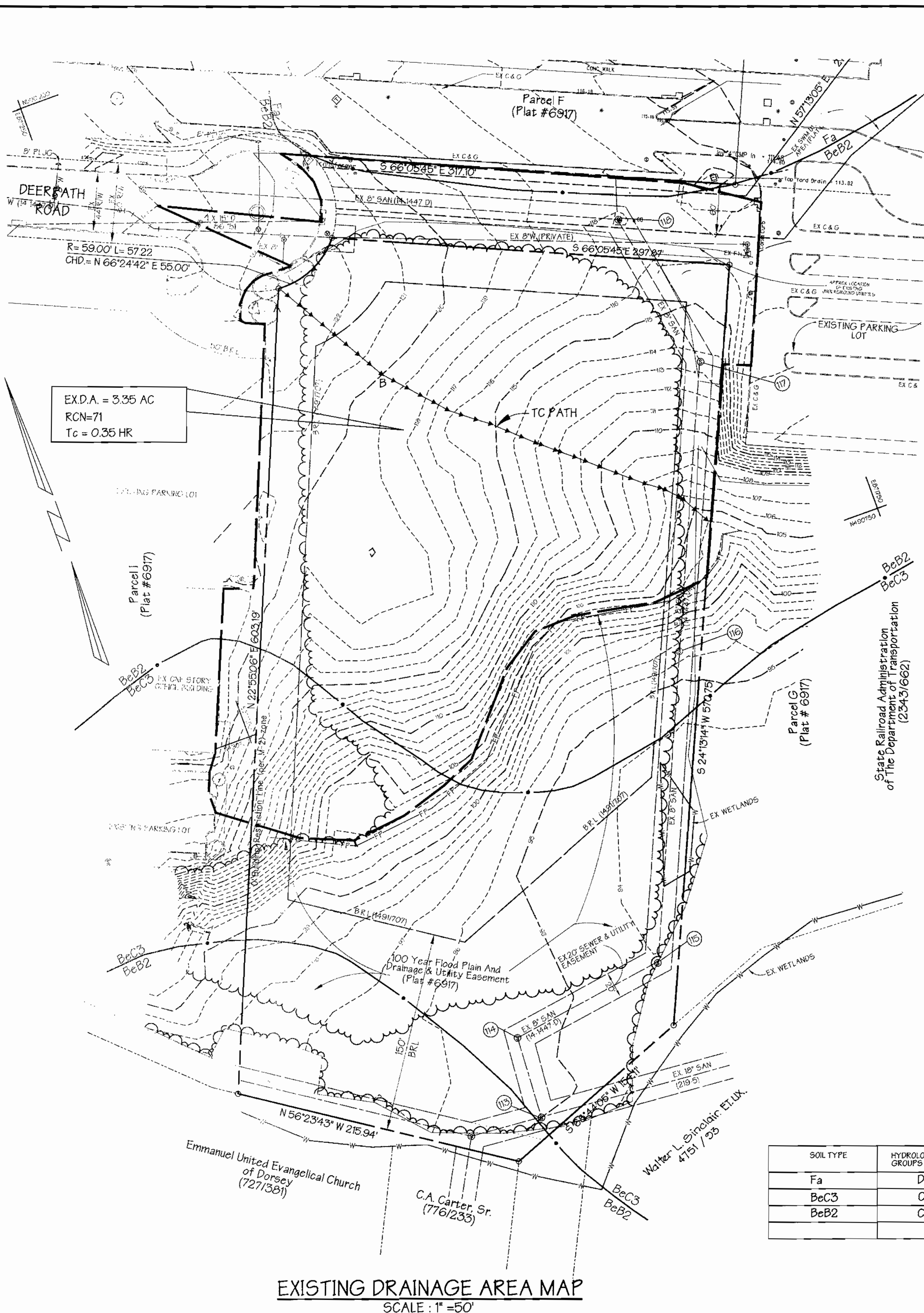
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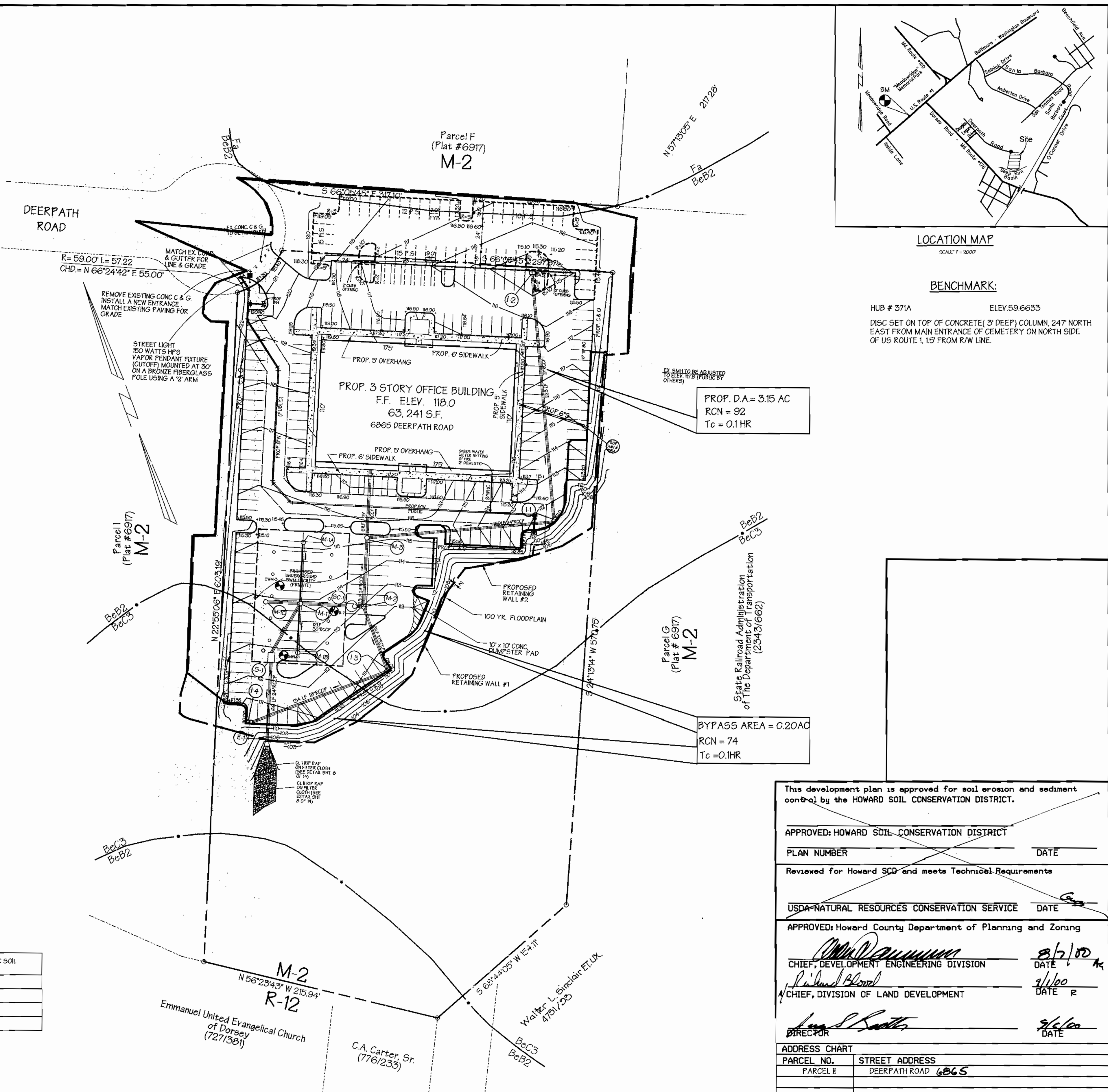
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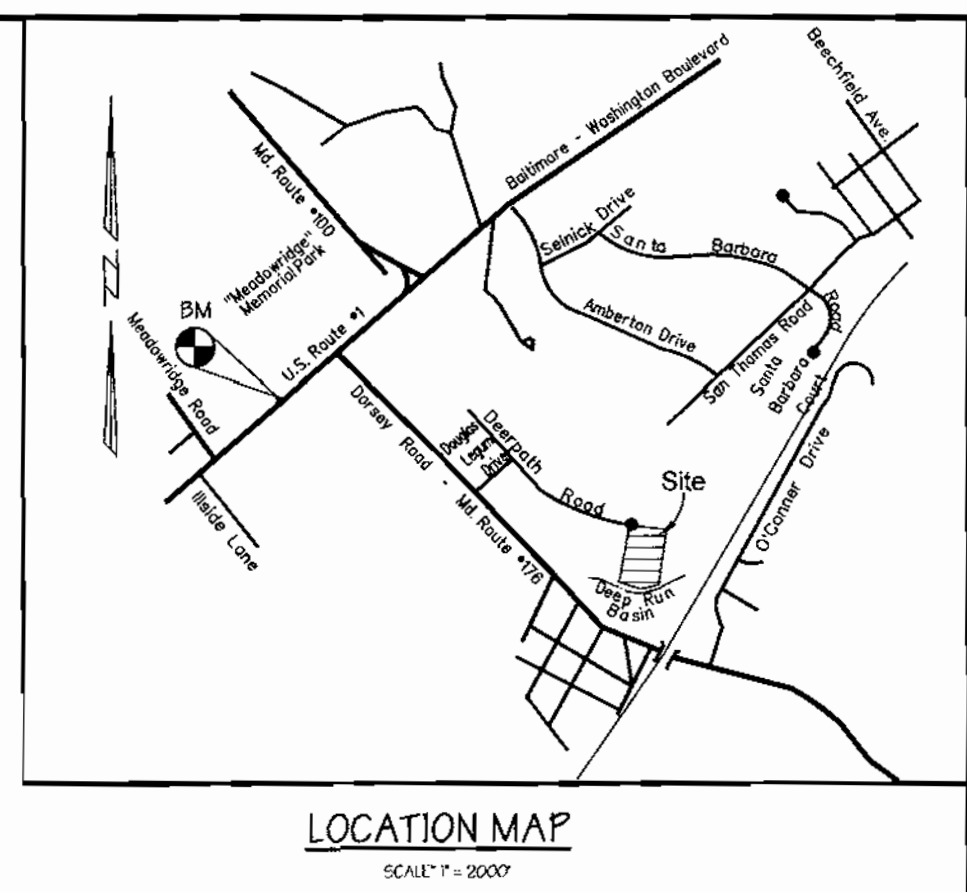


SOIL TYPE	HYDROLOGIC SOIL GROUPS
Fa	D
BeC3	C
BeB2	C

- LEGEND:
- - - - - TIME OF CONCENTRATION PATHS
 - EXISTING DRAINAGE AREA
 - SOIL LINES
 - PROPOSED DRAINAGE AREA



PROPOSED DRAINAGE AREA MAP
SCALE: 1" = 50'



BENCHMARK:
HUB # 371A ELEV 59.6633
DISC SET ON TOP OF CONCRETE (3' DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 15' FROM R/W LINE.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
PLAN NUMBER _____ DATE _____
Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/2/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/1/00
DIRECTOR DATE 9/6/00

ADDRESS CHART
PARCEL NO. _____ STREET ADDRESS _____
PARCEL # DEERPATH ROAD 6865

SUBDIVISION NAME SECTION NAME PARCEL #
DORSEY BUSINESS CENTER 1 H

PLAT # 14391 BLOCK # 6 ZONE /ZONE MAP ELECT. DIST. CENSUS TRACT
WATER CODE B-01 SEWER CODE 2220000 37143 1 6069.01

PREPARED BY:
GWS
GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

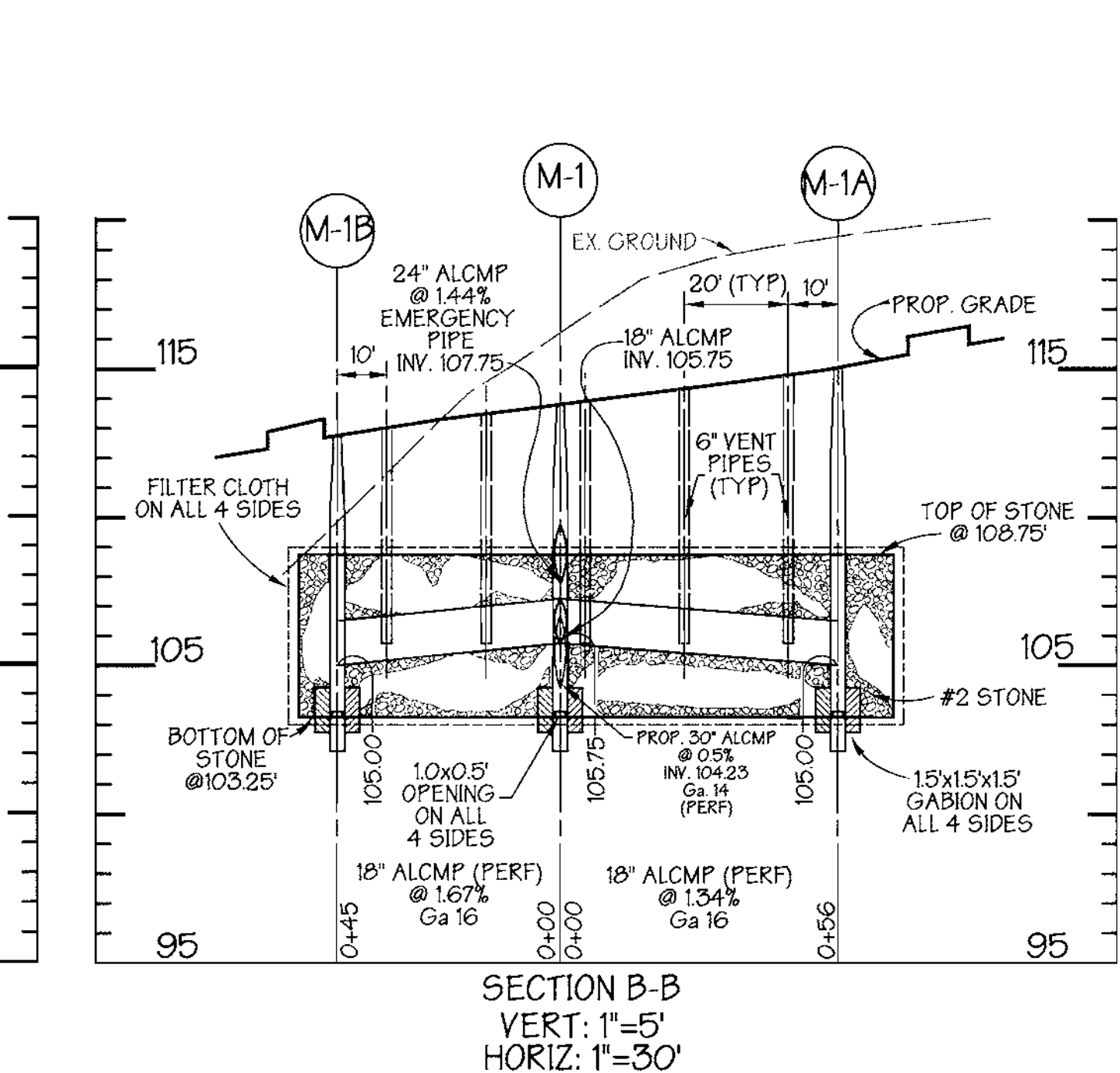
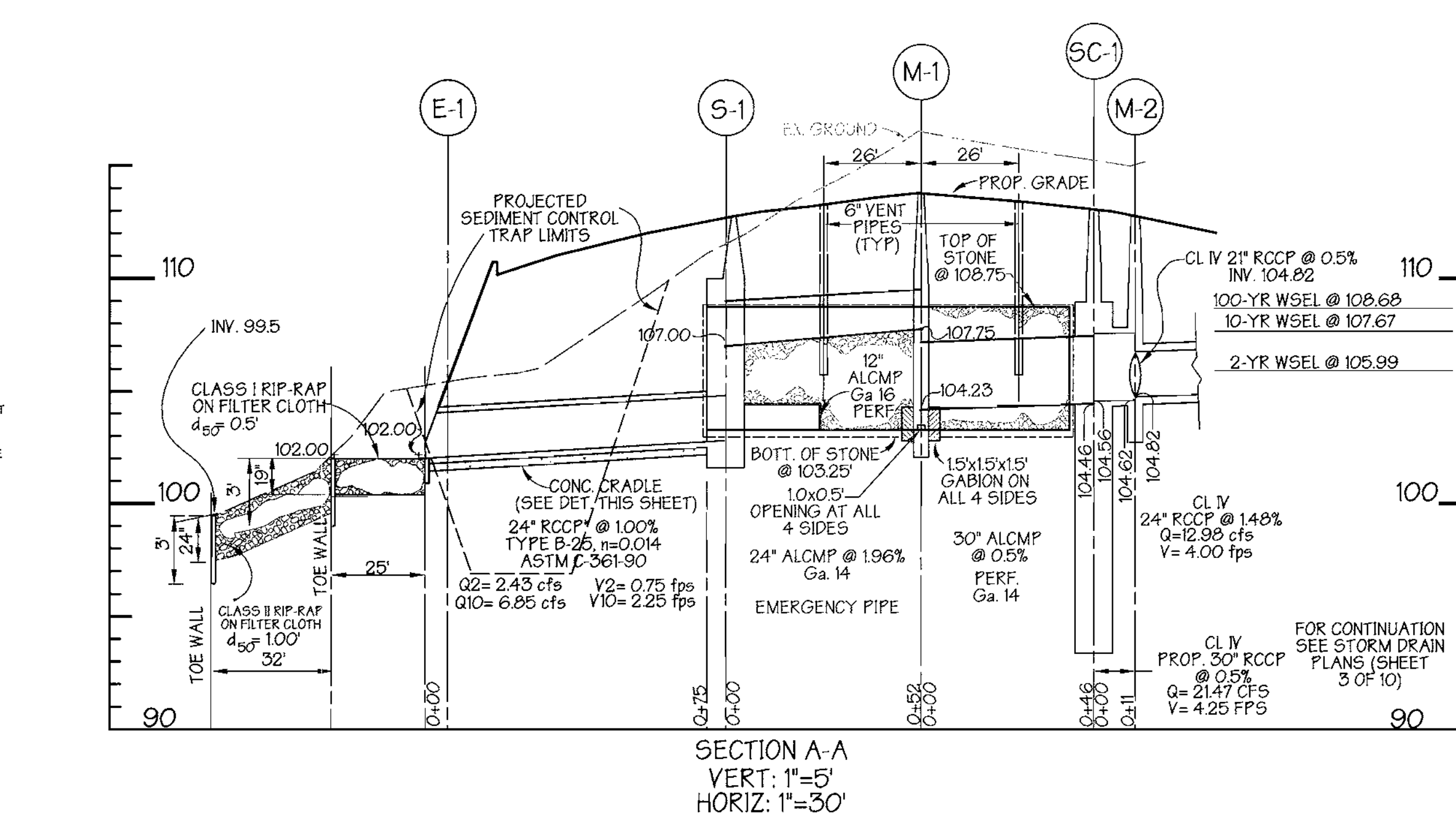
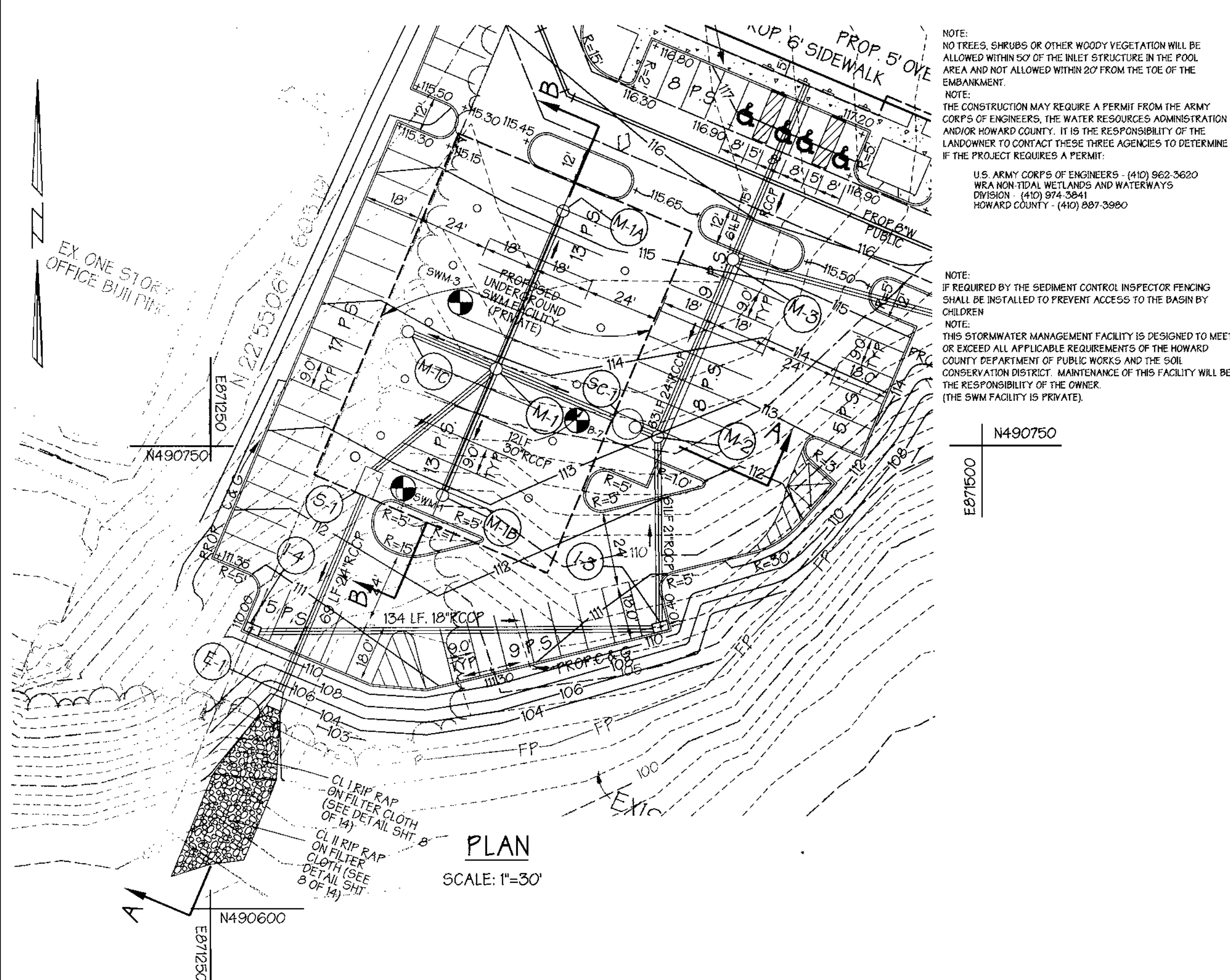
DESIGNED BY: K.U.
DRAWN BY: H.C.
CHECKED BY: T.H.
REVISIONS
1/15/99
REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 130, Zoning Regulations)

STORMWATER MANAGEMENT
DRAINAGE AREA MAP
FOR
DORSEY BUSINESS CENTER
PARCEL H-1

ELECTION DISTRICT: 1
HOWARD COUNTY, MD

SHEET 7 OF 14

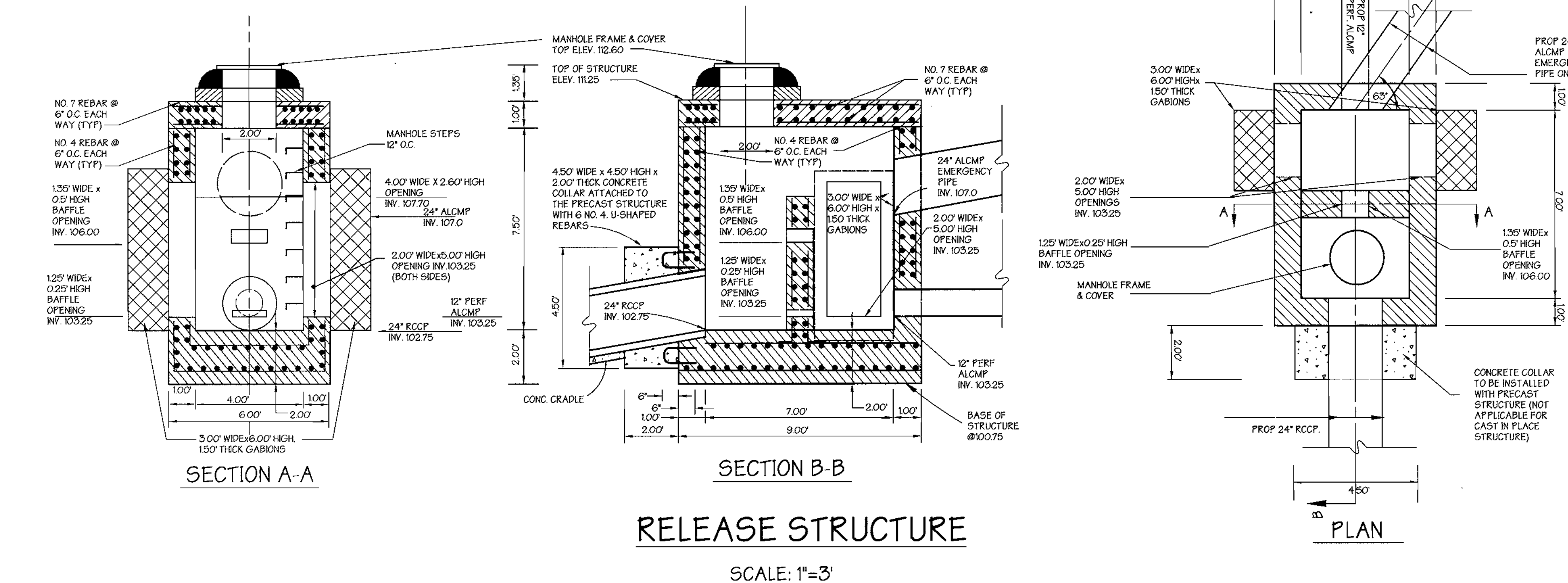
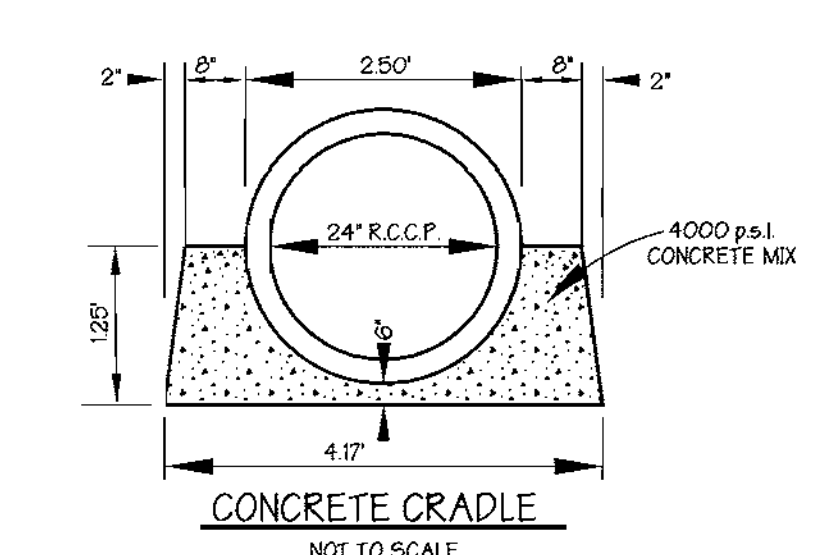
SDP-00-13
SCALE: AS SHOWN
FEB. 17, 2000



*NOTE: STORMWATER MANAGEMENT OUTLET PIPE WILL BE THE SAME MATERIAL AS CONTROL STRUCTURE.

POND SPECIFICATIONS FOR STORMWATER MANAGEMENT	
DESCRIPTION	DATA
STRUCTURE CLASSIFICATION	A (PRIVATE)
STORAGE X HEIGHT PRODUCT	(1035 AC. FT.) (55 FT.) = 5.68AC. FT. ²
WATERSHED AREA TO THE POND	3.15 AC.
POND TYPE	UNDERGROUND STONE STORAGE
FREEBOARD	N/A
IMPERVIOUS AREA	2.35 AC.
TOP OF STONES	108.75

POND SUMMARY						
DESIGN STORM	FACILITY INFLOW (CFS)	FACILITY DISCHARGE (CFS)	BYPASS DISCHARGE (CFS)	TOTAL DISCHARGE (CFS)	TOTAL ALLOWABLE DISCHARGE (CFS)	STORAGE VOLUME PROVIDED (AC. FT.)
2 YR	10.54	2.43	0.30	2.59	2.73	105.99
10 YR	77.55	6.85	0.70	7.15	7.33	0.400



- RELEASE STRUCTURE NOTES
- STRUCTURE TO BE CAST-IN-PLACE REINFORCED CONCRETE WITH 3500 P.S.I. (MIN.) COMPRESSIVE STRENGTH @ 28 DAYS. DESIGN OF PRECAST CONC. STRUCTURE SHALL BE PROVIDED BY MANUFACTURER.
 - ALL REINFORCING TO BE CONTINUOUS THROUGHOUT STRUCTURE.
 - ALL REINFORCING TO HAVE 1/8" MIN. OVERLAPS.
 - TWO (2) INCH COVER MINIMUM FOR ALL REBAR IN WALLS AND THREE (3) INCHES FOR THE BASE.
 - PROVIDE ADDITIONAL #4 REBARS ALONG THE PERIMETER OF ALL OPENINGS WITH THE AREA OF STEEL EQUAL TO OR GREATER THAN THE AREA OF STEEL 'REMOVED' DUE TO OPENING.
 - SHOP DRAWINGS FOR PRECAST CONCRETE RISERS WITH SUPPORTING STRUCTURAL COMPUTATIONS (SIGNED AND SEALED BY A MD REGISTERED ENGINEER) MEETING A.S.T.M. REQUIREMENTS FOR PRECAST STRUCTURES MUST BE SUBMITTED TO THE ENGINEER, AND THE APPROVING AGENCY FOR APPROVAL PRIOR TO FABRICATION. IF ANY STRUCTURE DIMENSIONS VARY FROM WHAT WAS ORIGINALLY REVIEWED/ APPROVED THEN THE HYDRAULICS, FLOTATION AND STRUCTURAL INTEGRITY OF THE STRUCTURE WILL HAVE TO BE RE-ANALYZED.
 - ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" X 3/4" MILLED CHAMFER STRIPS.

AS-BUILT CERTIFICATION:
I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meet the approved plans and specifications.

Signature: _____ P.E. # _____
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 sufficient and 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.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
DATE: 7/25/00

PLAN NUMBER: _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE
DATE: 7/25/00

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/7/00

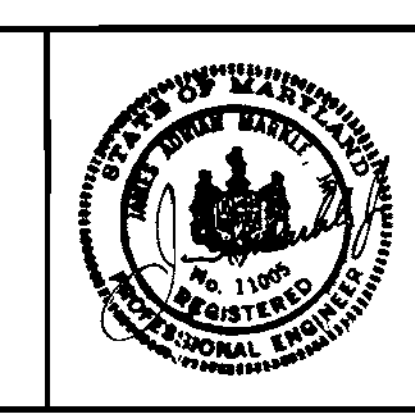
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 9/1/00

DIRECTOR
DATE: 7/6/00

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6845

SUBDIVISION NAME	SECTION NAME	PARCEL #
DORSEY BUSINESS CENTER	1	H
PLAT # 14391	BLOCK # 6	ZONE # 18
WATER CODE B-01	SEWER CODE 2220000	ELECT. DIST. 1
		CENSUS TRACT 6069.01

PREPARED BY:
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120



ENGINEER CERTIFICATION:
I 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. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature of Engineer: *James A. Markle, Jr.* Date: 7/13/00
Print Name: JAMES A. MARKLE, JR. PE # 11005

DEVELOPER CERTIFICATION:
I 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 as a Department of 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.

Signature of Developer: *Stephen W. Whalen, Sr.* Date: 07/13/00
Print Name: STEPHEN W. WHALEN, SR.

CONSULTANT'S HAZARD CLASS CERTIFICATION:
I certify that this pond meets all requirements for hazard class (B) or (C). (requirements as stated in the soil conservation service - Maryland standards and specifications for pond, code 37D, November 1992). All necessary investigations and computations have been performed to verify this finding. A copy of said information has been supplied to Howard County soil conservation district.

Engineer: *James A. Markle, Jr.* Date: 7/13/00
Name: JAMES A. MARKLE, JR.

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: K.U.
DRAWN BY: H.C./P.T.
CHECKED BY: J.H.
REVISIONS:
11/15/99 REVISD PARKING LAYOUT TO COMPLY WITH PARKING REGS (Section 193, Zoning Regulations)

STORM WATER MANAGEMENT PLAN AND PROFILES FOR DORSEY BUSINESS CENTER PARCEL H-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD
SHEET 8 OF 14
SDP-00-13 SCALE: AS SHOWN FEB 17, 2000

POND CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard Practice MD-576. 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 of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channelbanks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish, 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 stormwater management ponds, a minimum of a 50 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. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" frozen or other objectionable materials. Fill material for the center of the embankment and cut-off trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

PLACEMENT - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in a maximum 8" 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 spillways 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 lift shall be traversed by not less than one track tread of the 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 formed into a ball it will not crumble yet not be so wet that the water can be squeezed out.

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 to be certified by the Engineer at the time of construction. All compaction to be determined by AASHTO Method T-99.

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 compaction 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. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure.

PIPE CONDUITS All pipes shall be circular in cross section.

REINFORCED CONCRETE PIPE - All pipe to be circular in cross section.

All 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 Designation C-361.
2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and on the sides of the pipe as shown on the drawings with a minimum thickness of 3 inches, or as shown on the drawings.
3. Laying Pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with the 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 2 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.

PERFORATED PIPE

Bituminous coated corrugated metal pipe (BCCMP) shall conform to the requirements of AASHTO M36. Pipe should be specified to be fully bituminous coated in accordance with AASHTO M36. Perforated pipe to TYPE III. Pipe shall have CLASS 2 perforations 3/8" in diameter.

CONCRETE

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 910 (Portland Cement Concrete Mixture), Mix No. 3.

REINFORCING STEEL IN CONCRETE STRUCTURES

Reinforcing steel shall be ASTM A 615, Grade 60. Steel angles and anchor bars shall be ASTM A-36.

ROCK RIP-RAP

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 905.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth 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 912.

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 the 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, all 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 of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to pumps from which 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, and other borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Stormwater management facility will be stabilized with permanent slope seeding as follows:

1. Seedbed Preparation - loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.
2. Soil Amendments - apply 2 tons per acre Dolomitic Limestone (92 lbs/1000 sq. ft.), 600 lbs. per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.), and 400 lbs. per acre of 30-0-0 Ureaform Fertilizer (92 lbs/1000 sq. ft.). Harrow or disc lime and fertilizer into upper 3 inches of soil. At time of seeding, apply 400 lbs. (92 lbs/1000 sq. ft.) of 30-0-0 Ureaform Fertilizer and 500 lbs. per acre (115 lbs/1000 sq. ft.) of 10-0-0 Fertilizer.
3. Seeding - for the period March 1 through April 30 seed with 40 lbs. per acre Kentucky 31 Tall Fescue, and 15 lbs. per acre inoculated Crown Vetch. For the period May 1 through July 31 seed with 60 lbs. per acre Kentucky 31 Tall Fescue and 2 lbs. per acre inoculated Weeping Lovegrass. For the period August 1 through October 15 seed with 40 lbs. per acre Kentucky 31 Tall Fescue, and 20 lbs. per acre inoculated Intermediate Sericea Lespedeza. For the period October 16 through February 29 protect the site by Option (1); 2 tons per acre of well anchored straw. For the period May 1 through February 29 inoculated Crown Vetch shall be applied during the subsequent period of March 1 through April 30 at the rate of 15 lbs. per acre.
4. Mulching - apply 15 to 2 tons per acre of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 210 gallons per acre of emulsified asphalt. On flat areas of slope 6 feet or higher, use 340 gallons per acre of anchoring.
5. Maintenance - inspect all seeded areas and make needed repairs, replacements and re-seeding.

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 to be employed during the construction process.

PERMANENT SLOPE SEEDING

After spreading 4" topsoil, seed with a mixture of 30% inoculated Crown Vetch and 70% Kentucky 31 Tall Fescue applied at a rate of 60 lbs/acre; 10-20-20 fertilizer shall be applied at a rate of 25 lbs/1000 sq. ft.; lime at a rate of 92 lbs/1000 sq. ft.; mulch area with unweathered small grain straw at a rate of 15 tons/acre; anchor with a rapid curing asphalt (RC-70, R-250 or RC-800 at a rate of 0.1 gal/5.0).

FILTER CLOTH

Filter cloth shall meet or exceed the requirements in Section 20-25.5 of the Baltimore County Standard Specifications and Details for Construction. Durable filter fabrics for drainage purposes are not limited to Miraf HOS, DuPont TYPAC No. 3341 or 3401.

Filter cloth shall be protected from punching or tearing. Any damage other than an occasional small hole shall be repaired by placing another small piece of filter cloth over the damaged area or by replacing the cloth section. All overlaps shall be a minimum of one foot.

GABIONS

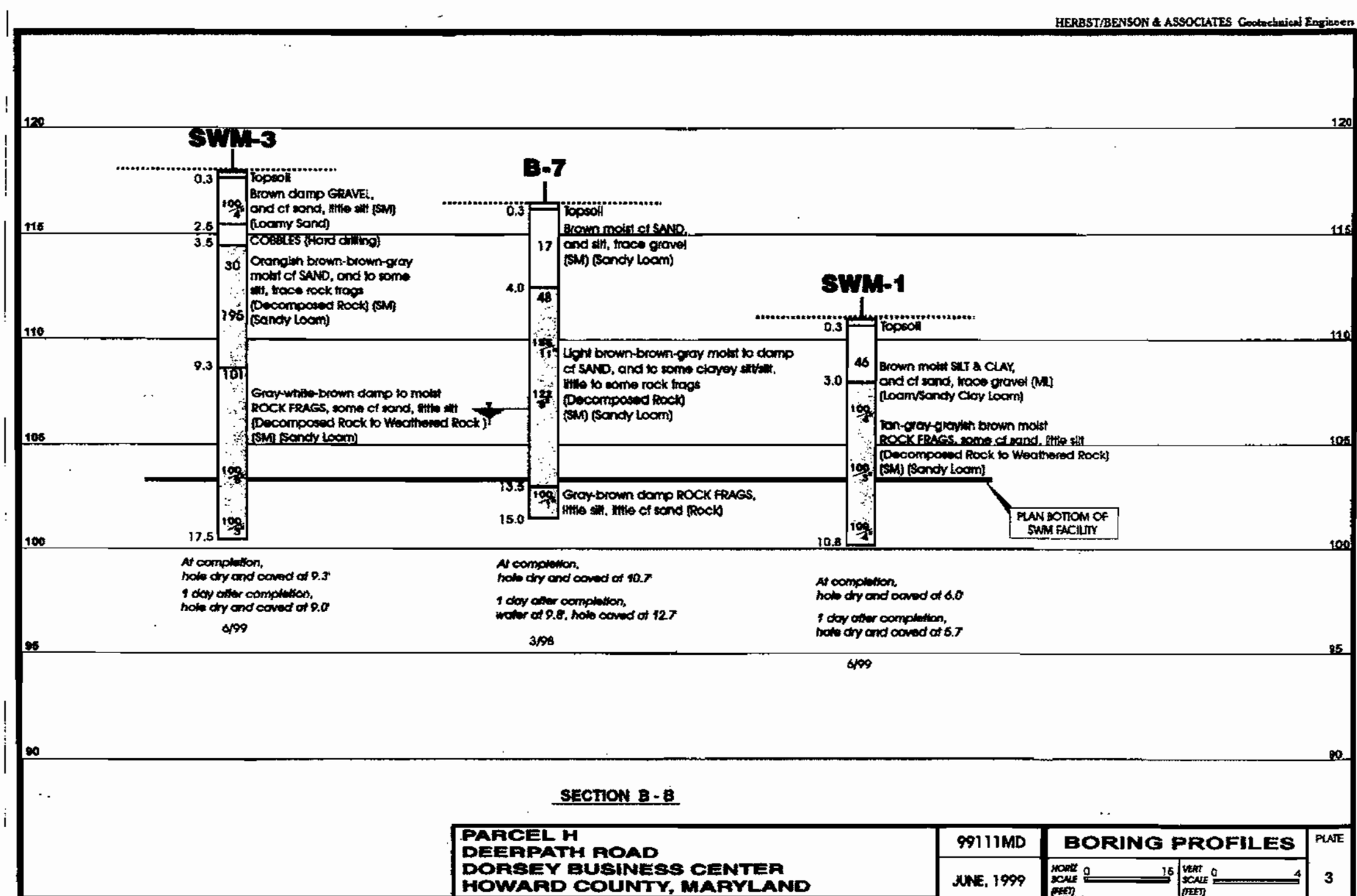
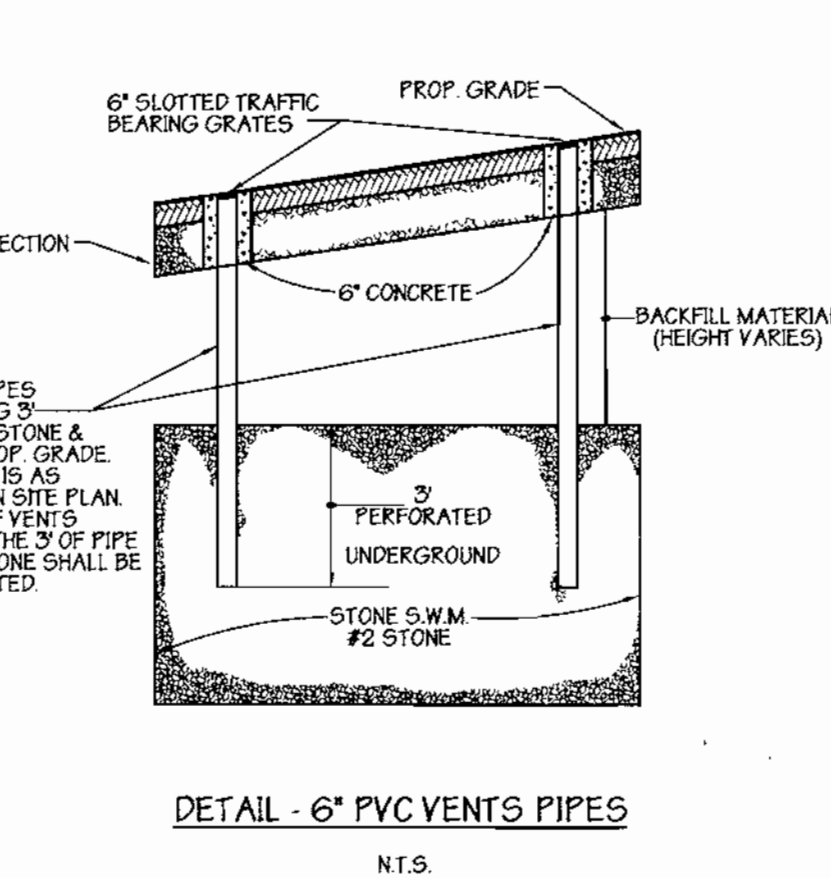
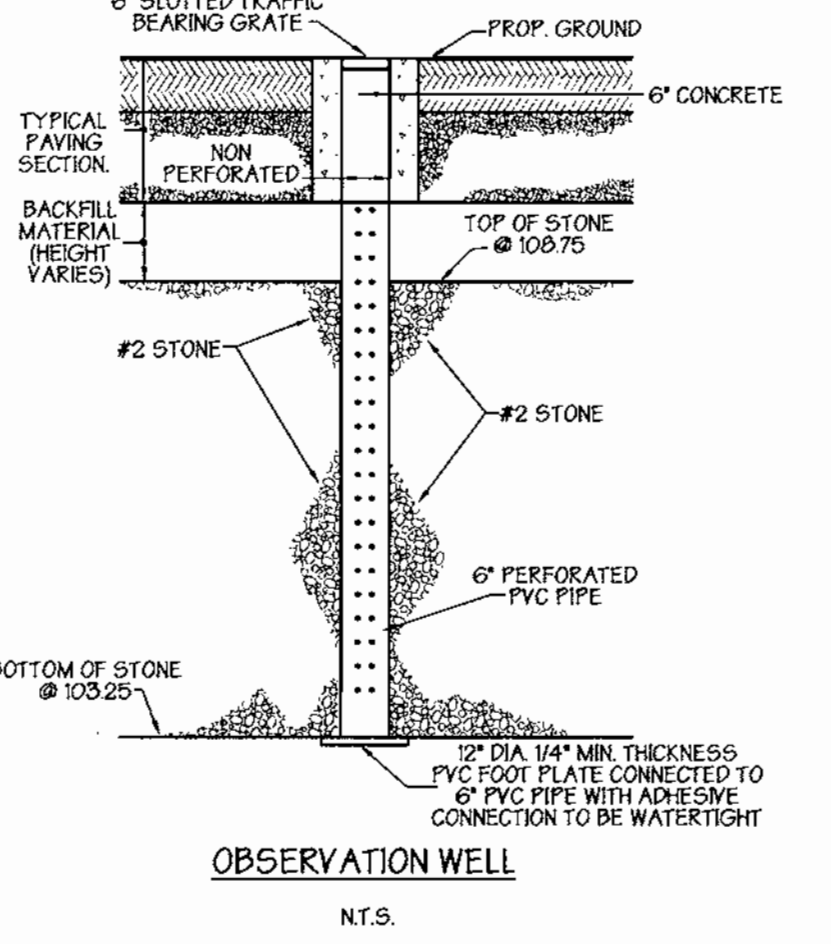
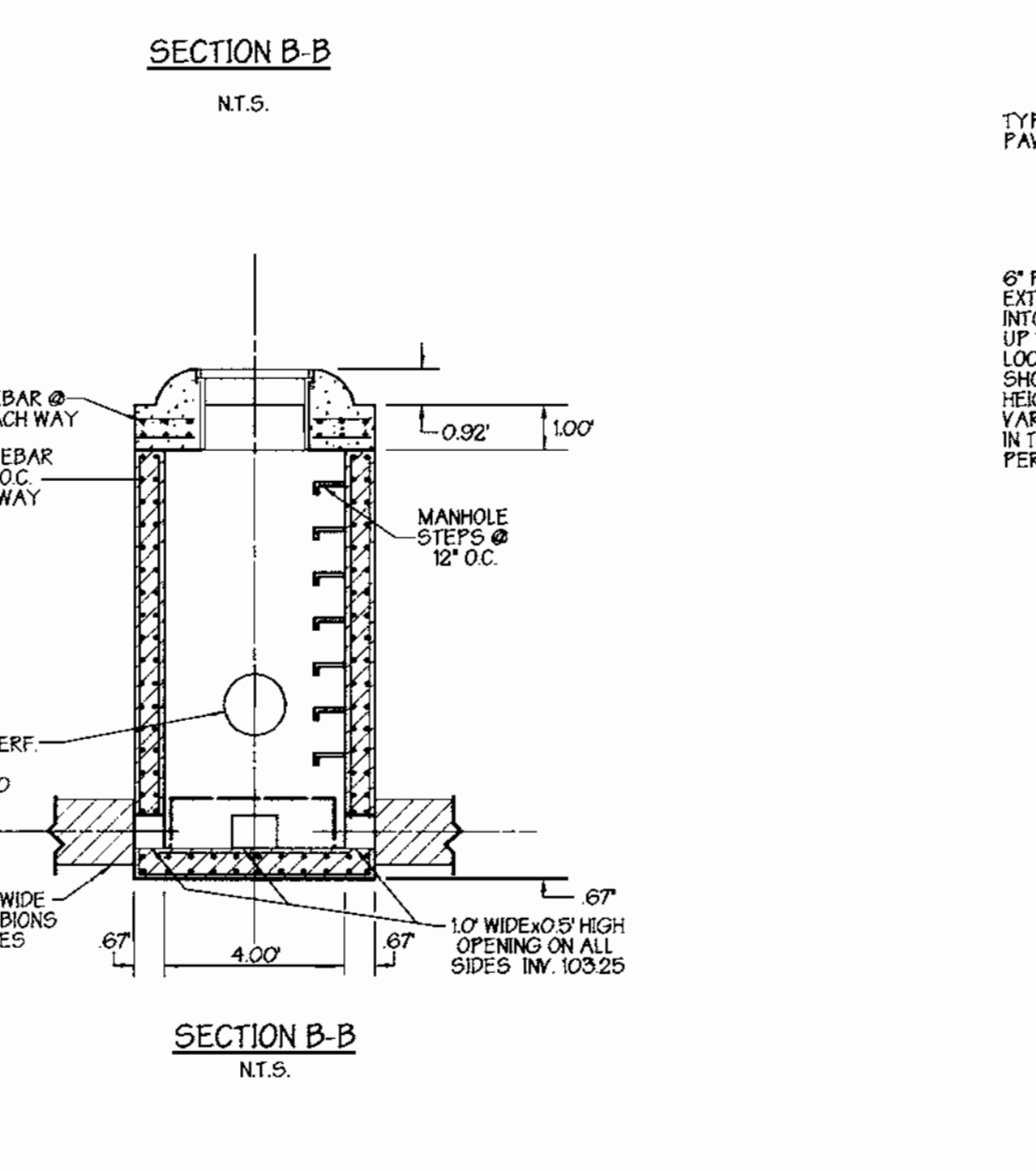
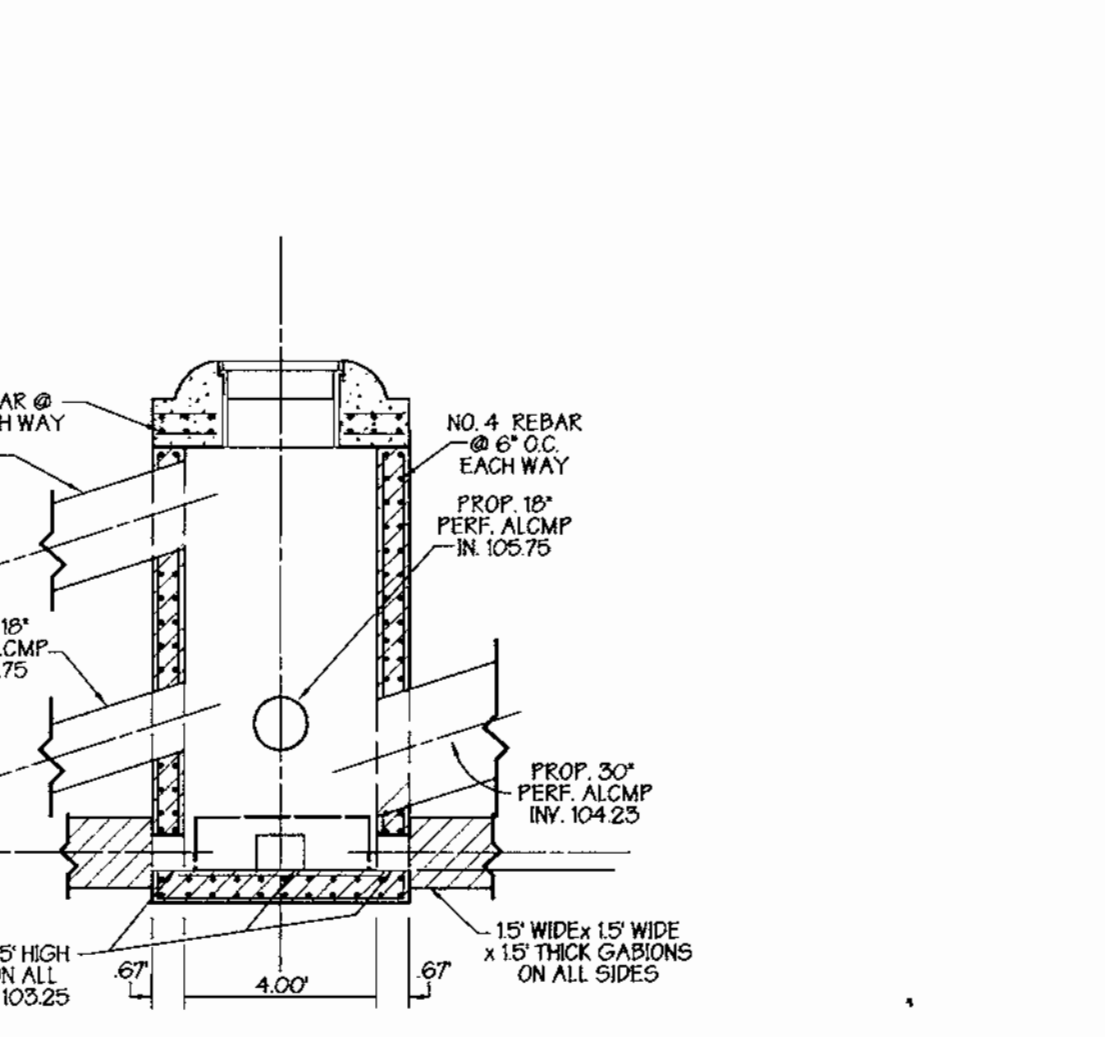
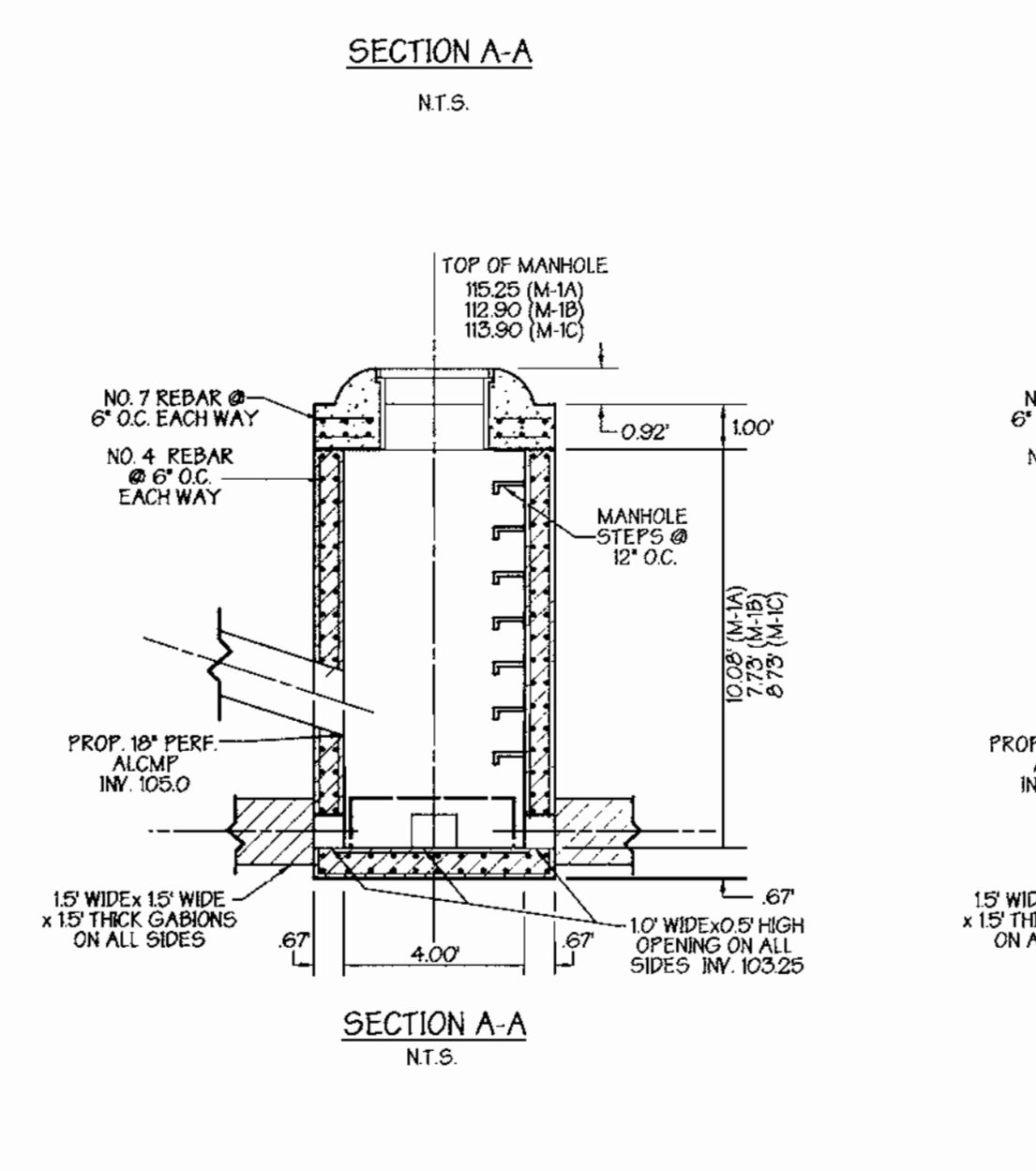
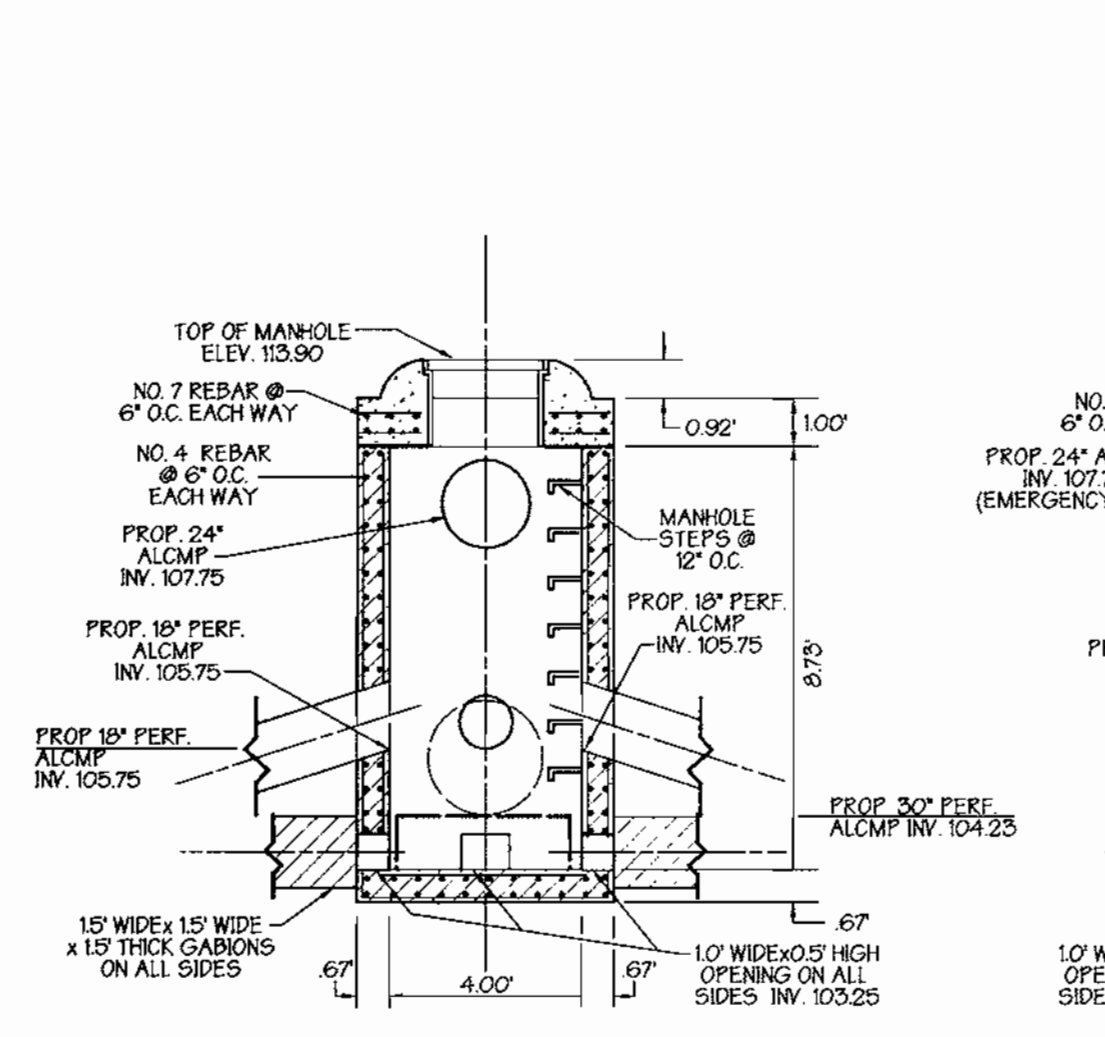
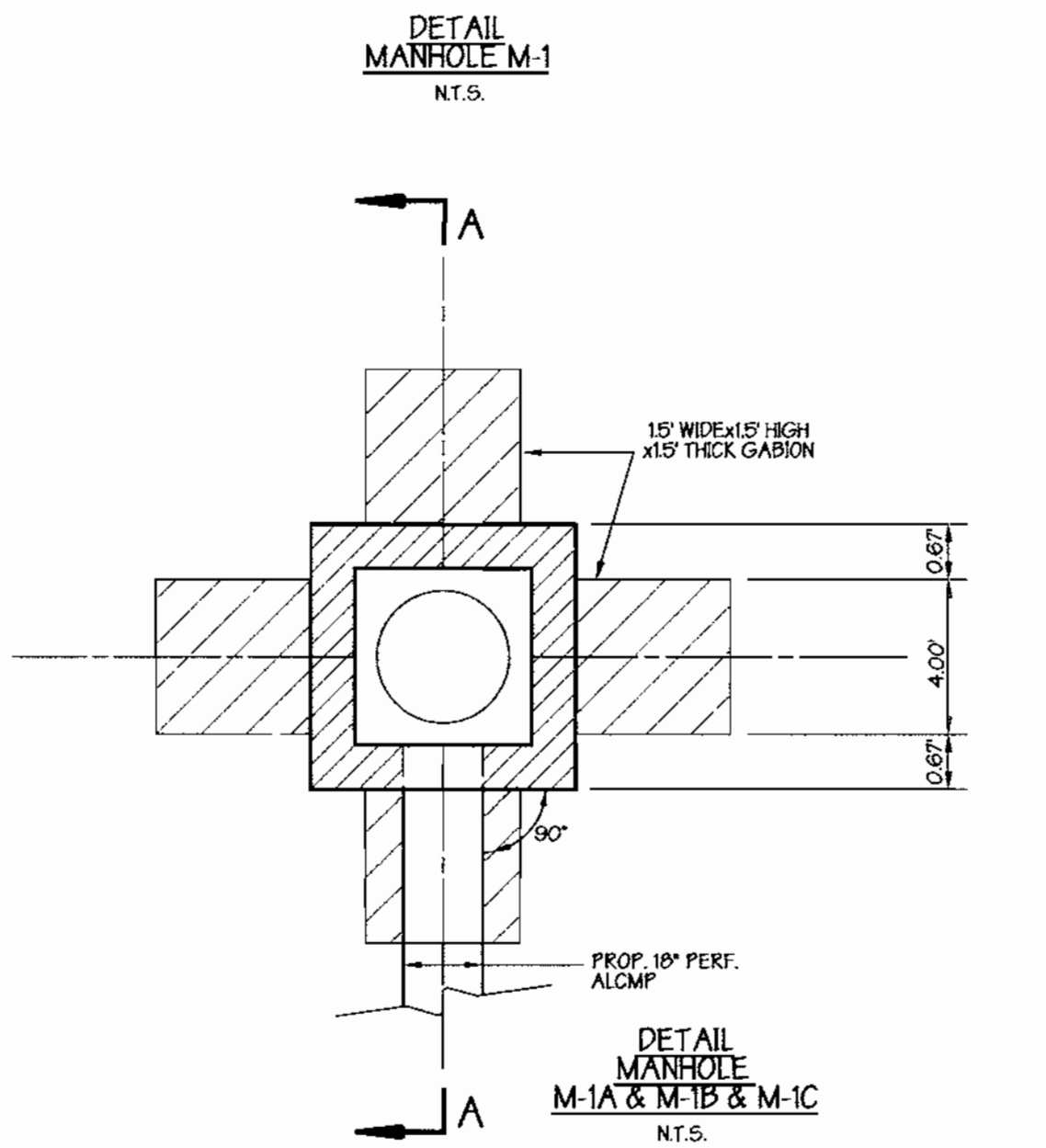
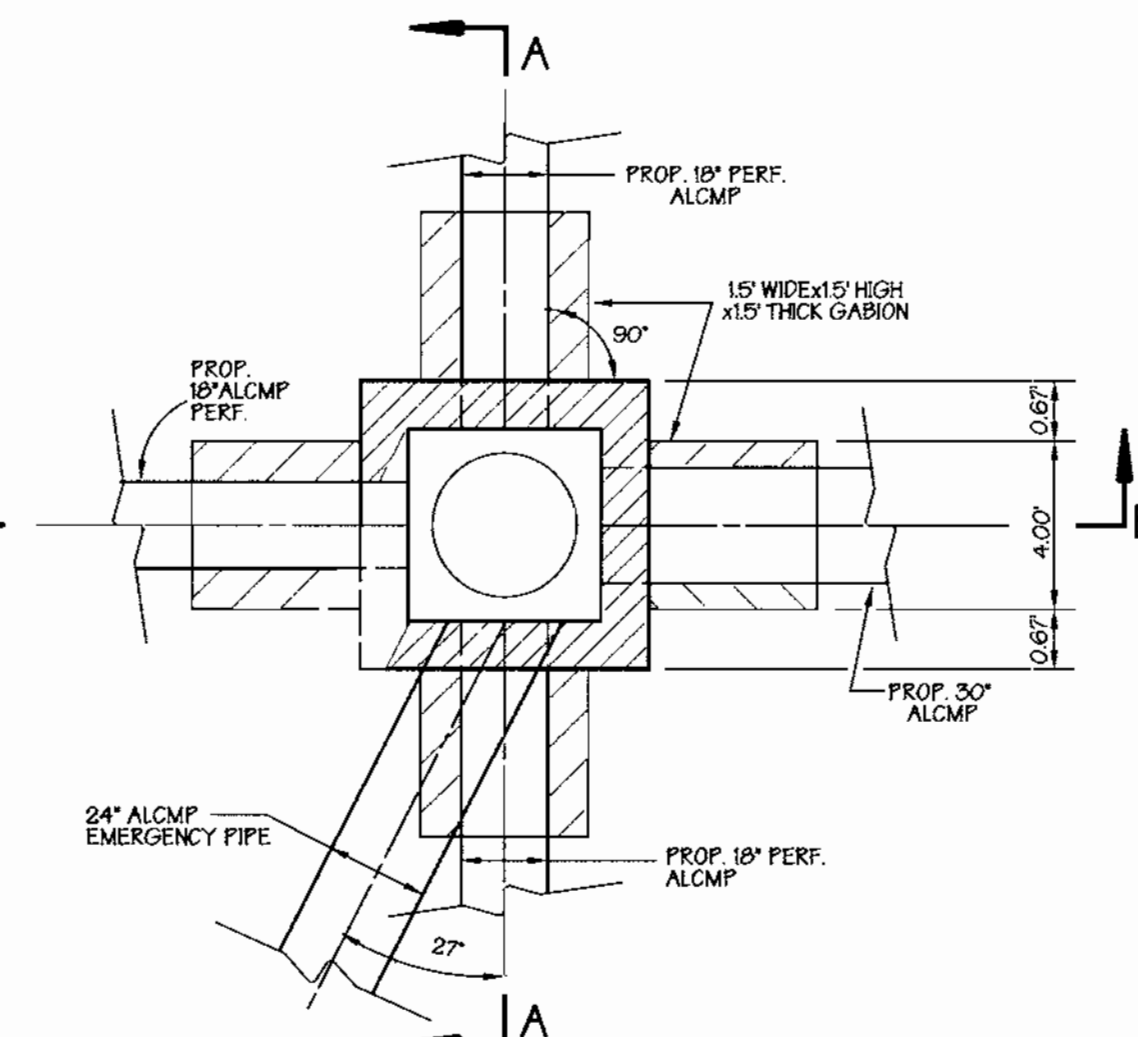
Gabions shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 312 and must be CL IV, PVC coated.

OUTFALL PROTECTION

Subgrade for riprap or gabion outfalls shall be prepared to the required line and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material. All rock or gravel shall conform to the specified grading limits when installed in the riprap or gabion. All stones shall be delivered and placed in a manner that will insure the stone in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another, with the smaller rocks filling the voids between the larger rocks. Stones for outfalls may be placed by equipment. Riprap or gabion outlets shall be constructed to full course thickness in one operation and in such a manner as to avoid any displacement of underlying materials. The contractor shall avoid damage to the filter blankets or cloth during placement of riprap. Hand placement shall be required as needed to prevent damage to the permanent works. Filter cloth shall be placed under all riprap and gabions.

OPERATION AND MAINTENANCE SCHEDULE FOR STORMWATER MANAGEMENT UNDERGROUND FACILITY.

1. REMOVAL OF ACCUMULATED PAPER, TRASH, AND DEBRIS AS NECESSARY.
2. ANNUAL INSPECTIONS AND REPAIR OF THE STRUCTURE.



Concerning the proposed SWM facility, and referring to PLATE 3, BORING PROFILES, an examination of the boring logs discloses the presence of decomposed to weathered rock at the planned base of the facility, the very dense disintegrated to weathered rock has low permeability as confirmed by the presence of perched water several feet above the plan pond bottom during the spring season of 1998. Given the presence of very dense disintegrated to weathered rock at and below the planned base of the facility, storm water disposal by infiltration practice is not recommended for the storm water management facility.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT

PLAN NUMBER _____ DATE _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/17/00

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/1/00

DIRECTOR DATE 9/1/00

ADDRESS CHART		SECTION NAME	PARCEL #
PARCEL NO.	STREET ADDRESS		
PARCEL #	6865 DEERPATH ROAD		
SUBDIVISION NAME	DORSEY BUSINESS CENTER	SECTION 1	PARCEL #
PLAT #	14391	BLOCK #	6
WATER CODE	B-01	ELECT. DIST.	1
		SEWER CODE	2220000

STORMWATER MANAGEMENT NOTES & DETAILS

FOR

DORSEY BUSINESS CENTER

PARCEL M-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD SHEET 9 OF 14

SDP-00-13 SCALE: NONE FEB. 17, 2000

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.

Civil Engineers and Land Surveyors

1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120

ENGINEER CERTIFICATION:

I 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.

Signature of Engineer: *James A. Miamer, Jr.* Date: 7/13/00
Print Name: JAMES A. MIAMER, JR. PE # 11005

DEVELOPER CERTIFICATION:

I 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 a Department of 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.

Signature of Developer: *Stephen W. Nihnen, Jr.* Date: 8/12/00
Print Name: STEPHEN W. NIHNEN, JR.

OWNER/DEVELOPER

WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: K.U.

DRAWN BY: P.T.

CHECKED BY: K.L.I.

REVISIONS

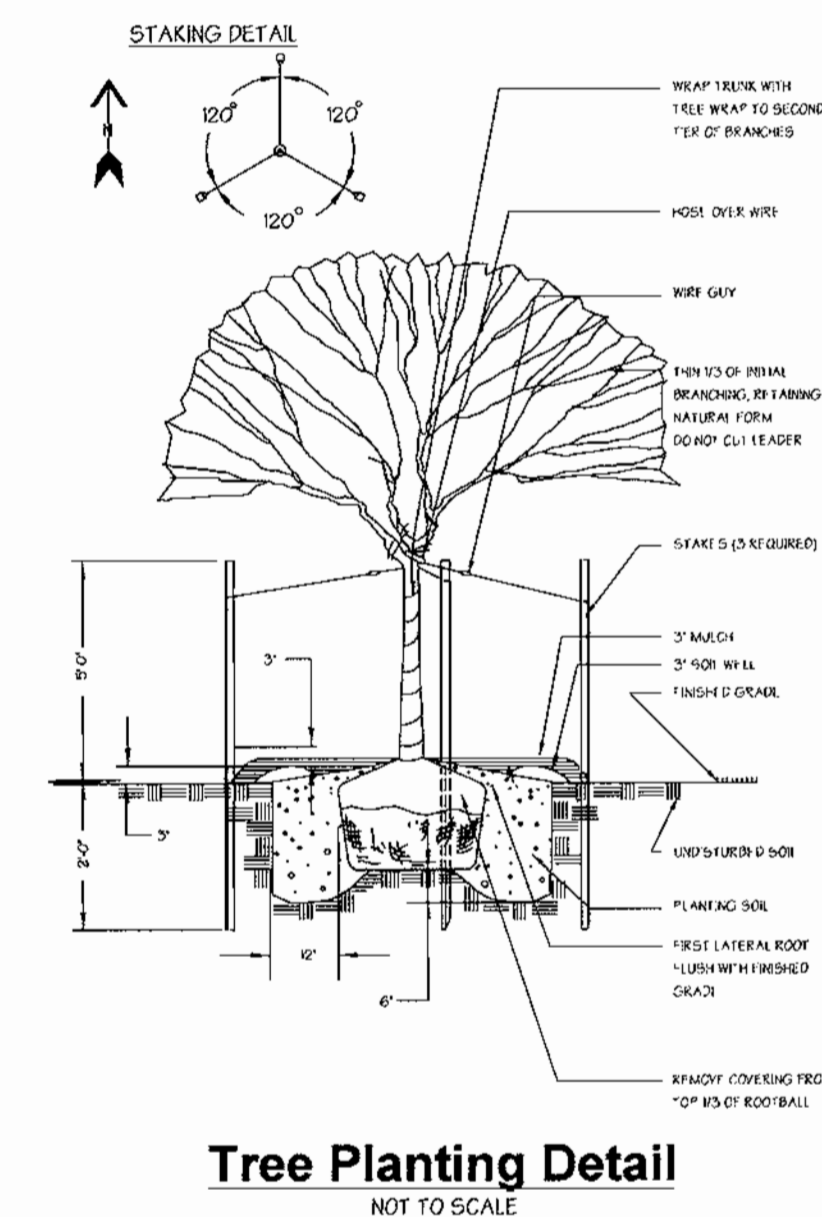
11/15/99 - REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 133, Zoning Regulations)

SDP-00-13

NOTE:
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DFW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$4,200.00.

NOTE:
THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.



PLANTING NOTES
PLANT LOCATIONS SHALL BE FIELD ADJUSTED TO AVOID UTILITIES. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO START OF WORK. ALL TREES AND SHRUBS SHALL BE MOVED TO A MINIMUM OF 18\"/>

PLANT STANDARDS
ALL NURSERY STOCK SHALL BE TOP QUALITY AND IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. "AMERICAN STANDARDS FOR NURSERY STOCK", LATEST EDITION. INFERIOR NURSERY STOCK WILL BE SUBJECT TO REJECTION BY THE LANDSCAPE ARCHITECT. BARE ROOT SHALL NOT BE ALLOWED FOR ANY TREE DEFINED AS MAJOR DECIDUOUS, MINOR DECIDUOUS OR EVERGREEN.

CHANGES MAY IMPACT REQUIRED CERTIFICATION
PLANT TYPES (DECIDUOUS TREES, EVERGREEN, ETC.), QUANTITIES, SPACING, LOCATION, AND SPECIES SHOWN ON THE APPROVED LANDSCAPE PLAN ARE BASED ON REQUIREMENTS STATED IN THE LATEST HOWARD COUNTY LANDSCAPE MANUAL. ANY CHANGE IN THESE ITEMS MAY AFFECT THE REQUIRED APPROVAL AND CERTIFICATION OF THE INSTALLED PLANTING. OWNER IS REQUIRED TO ARRANGE AND PAY FOR CERTIFICATION BY LANDSCAPE ARCHITECT.

LANDSCAPE SPECIFICATIONS
LANDSCAPE SPECIFICATION SHALL CONFORM TO LCA LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE WASHINGTON METROPOLITAN AREA, INCLUDING PLANTING PROCEDURES AND SOIL PREPARATION FOR SHRUBS AND PERENNIAL BEDS. A ONE-YEAR WARRANTY PERIOD SHALL BE REQUIRED. MAINTENANCE REQUIRED TO HONOR THE ONE-YEAR WARRANTY SHALL BE PERFORMED AS PART OF THIS CONTRACT.

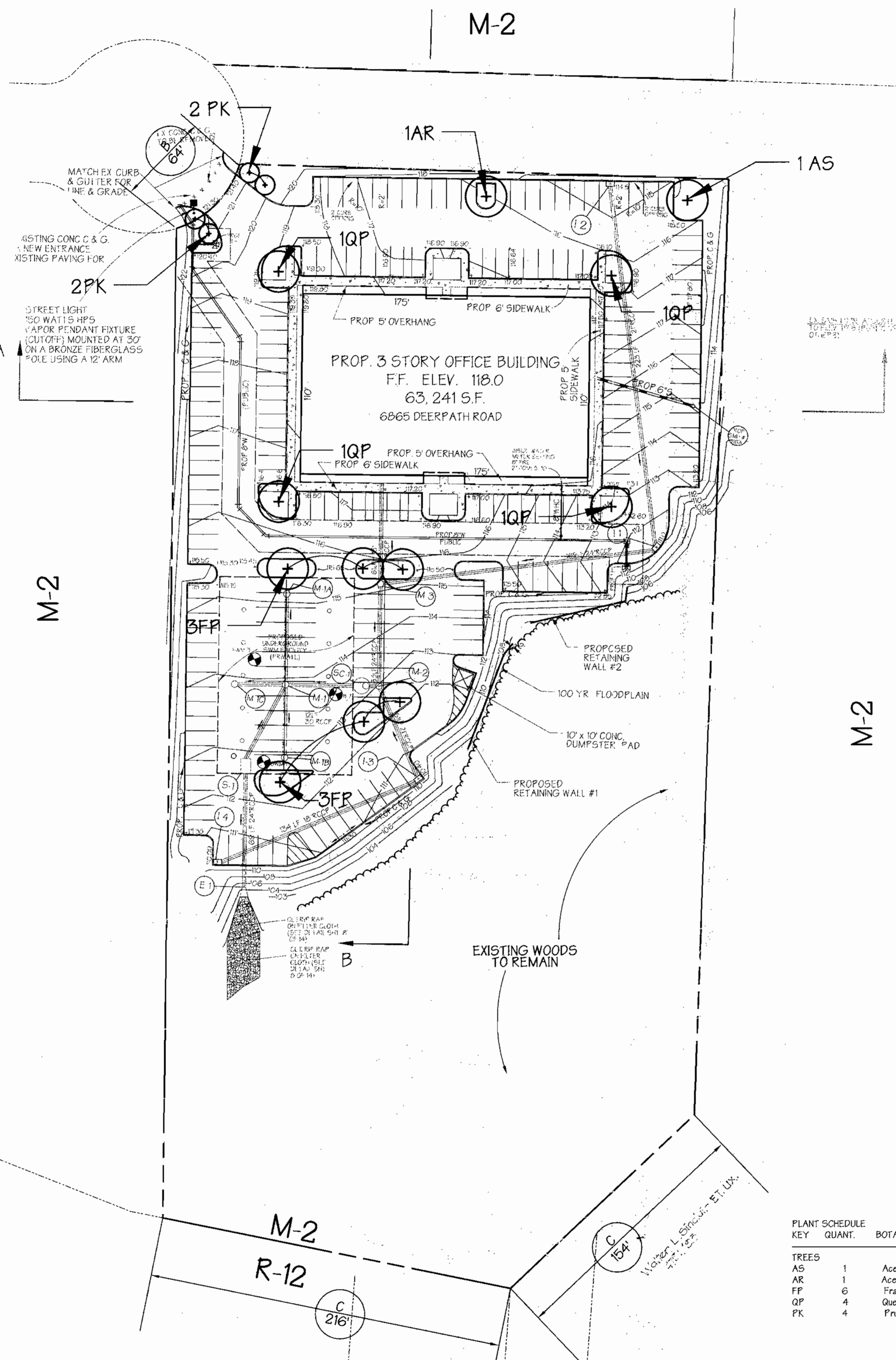
SPECIAL PROVISIONS TO LCA STANDARD SPECIFICATIONS
CONTRACTOR IS ENCOURAGED TO PERFORM SOIL TESTING. TEST RESULTS SHALL BE SUBMITTED 30 DAYS BEFORE PLANTING. FAILURE TO PERFORM TESTING WILL NOT VOID GUARANTEE PROVISIONS.

CONTRACTOR SHALL REVIEW AND TEST SUBSOIL DRAINAGE CHARACTERISTICS 30 DAYS PRIOR TO PLANTING AND NOTIFY OWNER UNACCEPTABLE CONDITIONS.

NO EXCEPTIONS TO THE GUARANTEE PROVISIONS ARE ALLOWED UNLESS AGREED TO IN WRITING PRIOR TO PLANTING.

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE TREES, IN THE AMOUNT OF \$4200.00, IS PART OF THE DEVELOPER'S AGREEMENT.

PREPARED BY:
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120

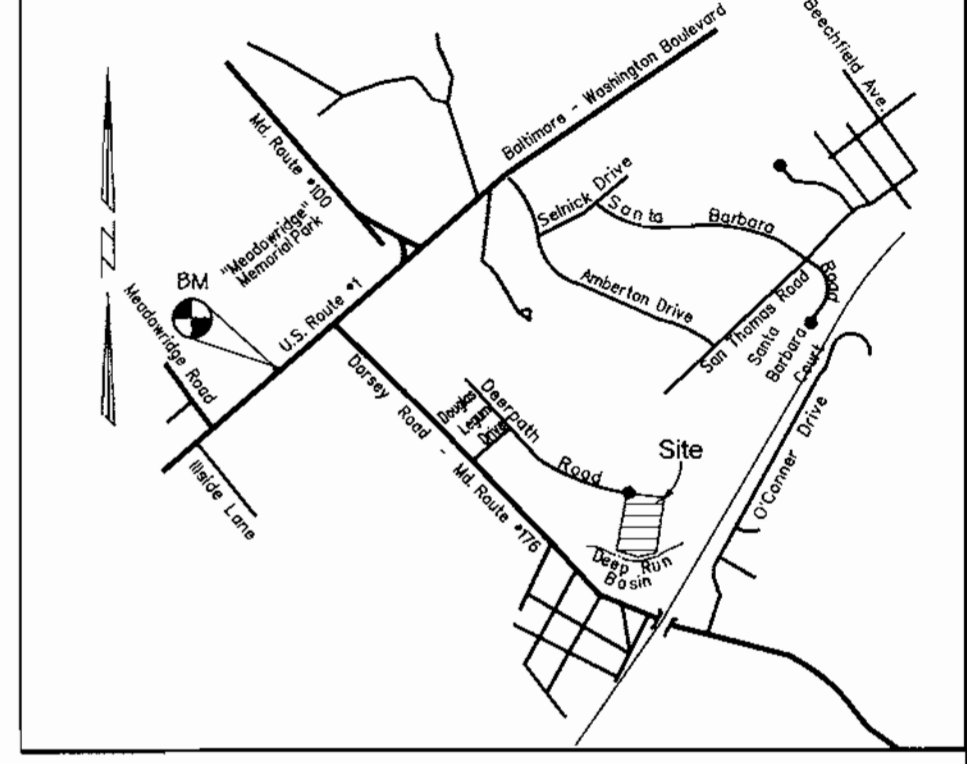


PLANT SCHEDULE

KEY	QUANT.	BOTANICAL NAME / COMMON NAME	SIZE / COND.	SPACING	REMARKS
TREES					
AS	1	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	2-2 1/2" cal / B&B	25' o.c. as shown	full crown
AR	1	Acer rubrum 'October Glory' / October Glory Red Maple	2-2 1/2" cal / B&B	25' o.c. as shown	full crown
FF	6	Fraxinus pennsylvanica 'Fatmora' / Fatmora Green Ash	2-2 1/2" cal / B&B	25' o.c. as shown	full crown
QP	4	Quercus phellos / Willow Oak	2-2 1/2" cal / B&B	25' o.c. as shown	full crown
PK	4	Prunus serotina 'Kwanzan' / Kwanzan Cherry	1 1/2" 2" cal / B&B	15' o.c. as shown	matched

Legend

- Ex. 2' Contours: --- 394
- Ex. 10' Contours: --- 395
- Prop. 2' Contours: --- 394
- Prop. 10' Contours: --- 395
- Ex. Curb & Gutter: ---
- Prop. Curb & Gutter: ---
- Bldg. Restriction Line: ---
- Ex. Sanitary: ---
- Ex. Storm Drain: ---
- Ex. Water: ---
- Prop. Sanitary: ---
- Prop. Storm Drain: ---
- Prop. Water: ---
- Concrete Paving: ---
- Light Duty Paving (P-3): ---
- Wetlands: ---
- Flood Plain: ---
- Ex. Conc. C&G to be Removed: ---
- Proposed Reverse Conc. Curb & Gutter: ---
- Ex. Trees: ---



LOCATION MAP
SCALE: 1" = 200'

BENCHMARK:
HUB # 371A ELEV. 59.6633
DISC. SET ON TOP OF CONCRETE (3' DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 15' FROM R/W LINE.

SCHEDULE A PERIMETER LANDSCAPE EDGE

	ROADWAYS	PERIMETER PROPERTIES
Landscape Type	B	C
Linear Feet of Roadway Frontage	64'	370'
Credit for existing Vegetation (Yes, No, Linear Feet)	NO	370'
Credit for Wall, Fence, or Berm (Yes, No, Linear Feet)	NO	NO
Number of Plants Required		
Shade Trees	1	0
Evergreen Trees (1:1)	2	
Shrubs (10:1)		
Number of Plants Provided		
Shade Trees	1	
Evergreen Trees (1:1)	0	
Other Trees (2:1 sub.)	4	
Shrubs (10:1 sub.)		
Comments:		

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	209
Number of Trees Required	11
Number of Trees Provided	11
Shade Trees	11
Other Trees (2:1 sub.)	
Number of landscaped islands req.	11
Number of landscaped islands provided	11

LANDSCAPING COST ESTIMATE

SHADE TREES - 12 X \$300.00 = \$3600.00
FLOWERING TREES - 4 X \$150.00 = \$600.00
TOTAL = \$4200.00

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT

PLAN NUMBER _____ DATE _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/7/00

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/1/00

DIRECTOR DATE 9/6/00

ADDRESS CHART

PARCEL NO. _____ STREET ADDRESS _____
PARCEL # DEERPATH ROAD 6865

SUBDIVISION NAME _____ SECTION NAME _____ PARCEL # _____

DORSEY BUSINESS CENTER 1 H

PLAT # 4391 BLOCK # 6 ZONE 37.43 MAP 1 ELECT. DIST. 1 CENSUS TRACT 6069.01

WATER CODE B-01 SEWER CODE 2220000

LANDSCAPE PLAN
FOR
DORSEY BUSINESS CENTER
PARCEL H-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD SHEET 10 OF 14

SOP-00-13 SCALE: AS SHOWN FEB. 17, 2000

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 Certification of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.
Name: Stephen J. ... Date: 07/13/00

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: B.P.
DRAWN BY: H.C.
CHECKED BY: B.P.
REVISIONS
11/15/99 REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 133, Zoning Regulations)

PLAN
SCALE: 1" = 40'

SDP-00-13

Construction Notes

- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-315-1800 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.
- ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE AND FINISH.
- ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE, UNLESS OTHERWISE NOTED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
- THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING, ETC. ARE TO BE REMOVED PRIOR TO PLACING A BID ON SUCH ITEMS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICT IS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT G. W. STEPHENS AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, IF NECESSARY, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE FACILITIES, IF NECESSARY.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES OUTSIDE THE LIMIT OF DISTURBANCE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION. COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NOT BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION. ANY DAMAGE TO OFFSITE ROADS, RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CLEAR THE PROJECT SITE OF ALL TREES, PAVING, STRUCTURES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLAN.
- ONLY SUITABLE MATERIAL SHALL BE USED AS FILL AND ALL FILL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN THE SOILS REPORT PREPARED FOR THIS SITE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ALL SLOPES SHOWN HEREON, EXCEPTING THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- MAXIMUM SLOPE SHALL BE 2 HORIZONTALLY TO 1 VERTICALLY.
- CONTRACTOR SHALL PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS.
- ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 FOOT OF PROTECTIVE FILL OVER STORM DRAIN PIPES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL PAVEMENT MARKINGS AND SIGNAGE FOR HANDICAP PARKING SPACES INDICATED HEREON IN ACCORDANCE WITH ALL APPLICABLE CODES. ALL PAVEMENT MARKINGS TO BE TRAFFIC WHITE.
- ALL HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED, LATEST EDITION.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". ALL STREET AND REGULATORY SIGNS SHALL BE INSTALLED PRIOR TO INSTALLATION OF FINISHED PAVING.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING BITUMINOUS PAVING OR SUB-BASE WHICH IS DAMAGED OR REMOVED DURING CONSTRUCTION. ALL EXCAVATED AREAS SHALL BE BACKFILLED AND IN ACCORDANCE WITH THE SOILS REPORT AND/OR AS DIRECTED BY GEOTECHNICAL ENGINEER. ANY AREAS TO BE PAVED WHICH EXHIBIT UNSTABLE SUBGRADE CONDITIONS SHALL BE EXCAVATED TO BEARING SOIL, REFILLED AND COMPACTED.
- ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- PREFORMED ELASTOMERIC COMPRESSION JOINT MATERIAL SHALL BE INSTALLED AT ALL JOINTS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.
- A SEPARATE PERMIT IS REQUIRED FOR THE PROPOSED RETAINING WALL.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY PREPARED BY G. W. STEPHENS JR. & ASSOCIATES DATED MARCH 1998.
- OUTDOOR LIGHTING WILL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- 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 NO. 271A WAS USED FOR THIS PROJECT.
- WATER IS PUBLIC.
- SEWER IS PUBLIC.
- EXISTING UTILITIES ARE BASED ON SURVEY PREPARED BY GWS.
- PROPOSED SIDEWALK IS 5" THICK CONCRETE (MIX NO. 2) ON 4" CRUSHER RUN BASE.

NOTE: METER FOR PROPOSED BLDG IS INSIDE AND PRIVATE

FCP LEGEND

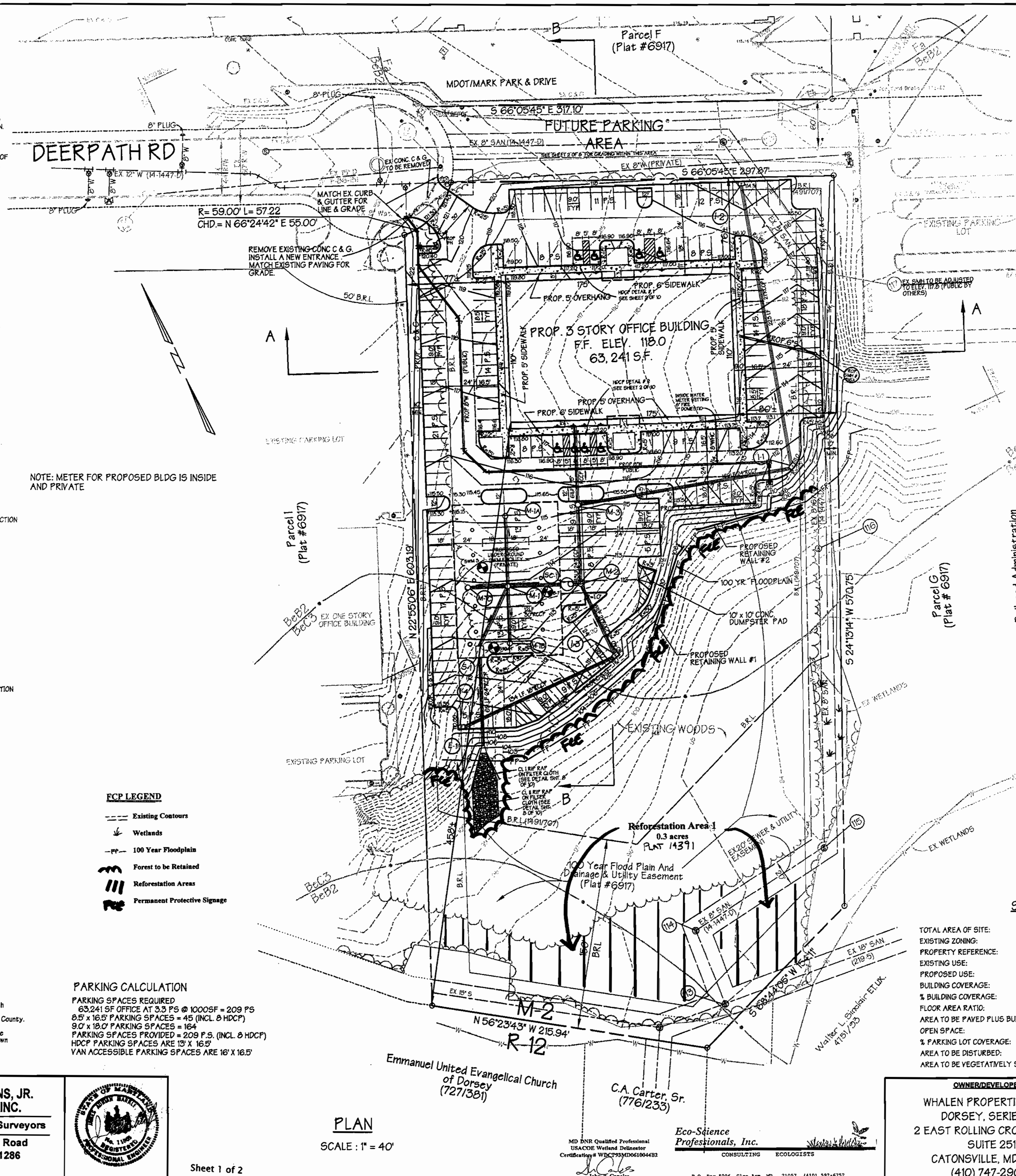
- Existing Contours
- Wetlands
- 100 Year Floodplain
- Forest to be Retained
- Reforestation Areas
- Permanent Protective Signage

PARKING CALCULATION

PARKING SPACES REQUIRED
63,241 SF OFFICE AT 3.3 PS @ 1000SF = 209 PS
8.5' x 16.5' PARKING SPACES = 45 (INCL. 8 HDCCP)
9.0' x 16.0' PARKING SPACES = 164
PARKING SPACES PROVIDED = 209 P.S. (INCL. 8 HDCCP)
HDCCP PARKING SPACES ARE 13' X 16.5'
VAN ACCESSIBLE PARKING SPACES ARE 16' X 16.5'

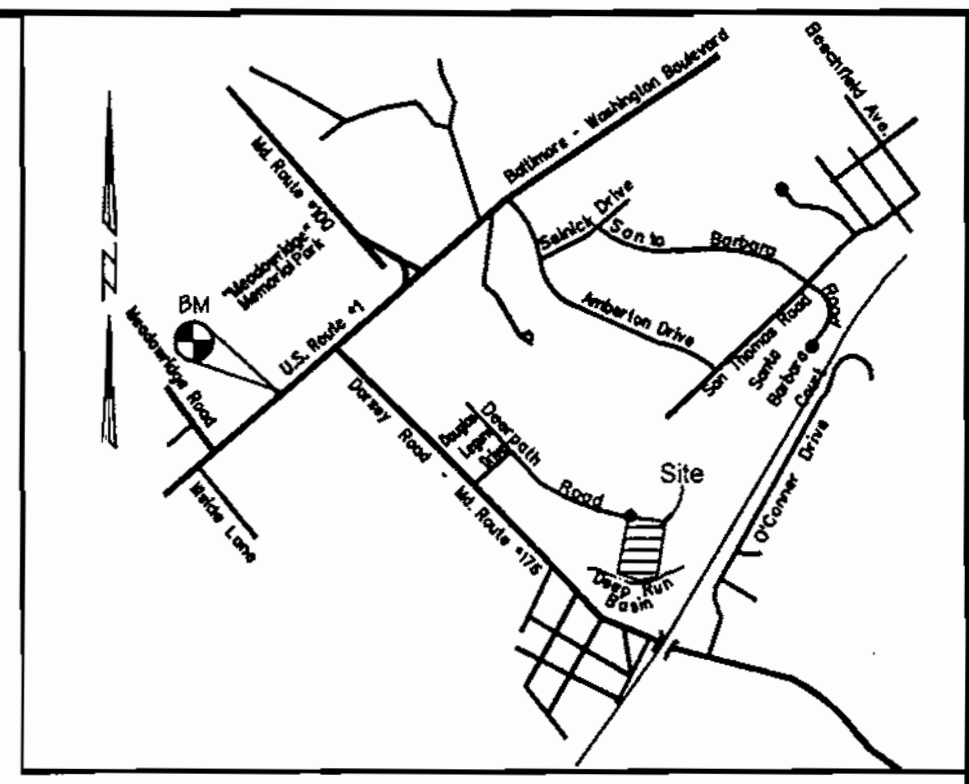
NOTE:
The owner shall provide a separate and independent sewer connection for each tenant or occupant of any building shown on this site development plan who will discharge non-domestic waste to the public sewerage system. Each separate and independent sewer connection shall include a standard manhole and other waste pretreatment devices as required and approved by Howard County. Waste lines on the interior of the building shall be designed, constructed or modified such that non-domestic waste will be discharged to the separate and independent sewer connection. No tenant or occupant of any building shown on this site development plan shall discharge regulated non-domestic waste to the public sewerage system prior to installation of the separate and independent sewer connection and related interior waste lines. The above statement shall apply to all initial and future occupants or tenants.

PREPARED BY:
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120



Legend

- Ex. 2' Contours
- Ex. 10' Contours
- Prop. 2' Contours
- Prop. 10' Contours
- Ex. Curb & Gutter
- Prop. Curb & Gutter
- Blgd. Restriction Line
- Ex. Sanitary
- Ex. Storm Drain
- Ex. Water
- Prop. Sanitary
- Prop. Storm Drain
- Prop. Water
- Concrete Paving
- Light Duty Paving (P-3)
- Wetlands
- Flood Plain
- Ex. Conc. C&G to be Removed
- Proposed Reverse Conc. Curb & Gutter
- Ex. Trees



LOCATION MAP
SCALE: 1" = 2000'

BENCHMARK:

HUB # 371A ELEV. 59.6633
DISC SET ON TOP OF CONCRETE (3" DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 115 FROM R/W LINE.

See Sheet 2 for FCP Notes, Planting Specifications and Details

SITE DATA

TOTAL AREA OF SITE:	4.87297 AC
EXISTING ZONING:	M-2 (SEE AA-87-06)
PROPERTY REFERENCE:	L-1300, F-547
EXISTING USE:	VACANT
PROPOSED USE:	
BUILDING COVERAGE:	19,250 SF OR 0.44 AC
% BUILDING COVERAGE:	9.0%
FLOOR AREA RATIO:	0.27
AREA TO BE PAVED PLUS BUILDING AREA:	2.35 AC
OPEN SPACE:	0.15 AC
% PARKING LOT COVERAGE:	39%
AREA TO BE DISTURBED:	3.25 AC OR 141,570 S.F.
AREA TO BE VEGETATIVELY STABILIZED:	0.75 AC

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONVILLE, MD 21228
(410) 747-2900

DESIGNED BY: V.Z./K.U.
DRAWN BY: H.C.
CHECKED BY: V.Z.
REVISIONS
11/15/99
REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 133, Zoning Regulations)

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.			
APPROVED: HOWARD SOIL CONSERVATION DISTRICT			
PLAN NUMBER	DATE		
Reviewed for Howard SCD and meets Technical Requirements			
USDA-NATURAL RESOURCES CONSERVATION SERVICE	DATE		
APPROVED: Howard County Department of Planning and Zoning			
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE		INITIALS
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE		INITIALS
DIRECTOR	DATE		
ADDRESS CHART			
PARCEL NO.	STREET ADDRESS		
PARCEL #	DEERPATH ROAD 6865		
SUBDIVISION NAME			
DORSEY BUSINESS CENTER			
PLAT #	BLOCK #	ZONE	SECTION NAME
1431	6	M-2	1
WATER CODE		SEWER CODE	PARCEL #
B-01		2220000	H
ELECTION DISTRICT: 1 HOWARD COUNTY, MD			
SHEET 11 OF 14			
SCALE: AS SHOWN			
FEBRUARY 14, 2000			

PLAN

SCALE: 1" = 40'

Eco-Science Professionals, Inc.
CONSULTING ECOLOGISTS
P.O. Box 5306 Glen Arm, MD 21057 (410) 592-6752

Planting Schedule

Afforestation Area (0.3 acres)

Qty.	Species	Size	Spacing
25	Acer rubrum - Red maple	2-3 whip	**
25	Fraxinus pennsylvanica - Green ash	2-3' whip	**
15	Platanus occidentalis - Sycamore	2-3' whip	**
15	Quercus palustris - Pin oak	2-3' whip	**
15	Cornus amomum - Silky dogwood	2-3' b.t.	**
10	Viburnum dentatum - Arrowwood	2-3' b.t.	**

Key: ** Plantings to be spaced on 11 foot centers, no shelters required - plantings should be installed in rows to facilitate future maintenance. Where possible rows should be made along contour.

b.t. - branched transplant

Planting Notes:

- Multiflora rose control must be performed as part of this planting plan.
- Bareroot plant material may be used to offset the cost of multiflora rose removal and maintenance. If bareroot material is used it must be planted in March-April and an anti-desiccant gel should be utilized to protect root systems. Container grown stock may be used.
- Plants should be flagged to aid on location during maintenance. Plantings should also be planted in grid pattern to facilitate maintenance and removal of invasive and exotic species.

Multiflora Rose Control Note

Multiflora rose is prevalent in certain areas to be afforested. Prior to planting all multiflora rose shall be removed. Removal of the rose may be performed with mowing and herbicide treatments. Physical removal of all top growth following by a periodic herbicide treatment of stump sprouts is recommended. Native tree and shrub species occurring within the rose thickets should be retained wherever possible. Herbicide treatments shall occur on 2 month intervals during the first growing season and once each in the spring and fall for subsequent years. Herbicide used shall be made specifically to address woody plant material and shall be applied as per manufacturers specifications. Care should be taken not to spray planted trees or naturally occurring native tree/shrub seedlings. It is recommended that initiation of rose removal begin at least six months prior to planting.

Planting/Soil Specifications

- Planting of nursery stock shall take place between March 15th and April 30th. Container stock may be planted September 1-October 30.
- A twelve (12) inch layer of topsoil shall be spread over all afforestation areas impacted by site grading to ensure a suitable planting area. Disturbed areas shall be seeded and stabilized as per general construction plan for project. Planting areas not impacted by site grading shall have no additional topsoil treated.
- All bareroot planting stock shall have their root systems dipped into an anti-desiccant gel prior to planting.
- Plants shall be installed so that the top of root mass is level with the top of existing grade. Backfill in the planting pits shall consist of 3 parts existing soil to 1 part pine fines or equivalent. Fertilizer shall consist of Agriform 22-8-2, or equivalent, applied as per manufacturer's specifications.
- A two (2) inch layer of hardwood mulch shall be placed over the root area of all plantings. Plant material shall be transported to the site in a tarp or covered truck. Plants shall be kept moist prior to planting.
- All non-organic debris associated with the planting operation shall be removed from the site by the contractor.

Sequence of Construction

- Plants shall be installed as per Plant Schedule and the Planting/Soil Specifications for the project.
- Upon completion of the planting, signage shall be installed as per the Forest Restoration Area Protection Drawings shown on Sheet 2 of the Forest Conservation Plan.
- Plantings shall be maintained and guaranteed in accordance with the Maintenance and Guarantee requirements for project.

Maintenance of Plantings

- Maintenance of plantings shall last for a period of 24 months.
- All plant material shall be watered twice a month during the 1st growing season. Watering may be more or less frequent depending on weather conditions. During second growing season, once a month watering May-September, if needed.
- Invasive species and noxious weeds will be removed from reforestation areas. Old field successional species will be retained.
- Plants will be examined a minimum two times during the growing season for serious plant pests and diseases. Serious problems will be treated with the appropriate agent.
- Dead branches will be pruned from plantings.

Guarantee Requirements

- After one growing season, plant material shall be maintained at 90% survival threshold. A 75 percent survival rate of reforestation plantings will be required at the end of the 24 month maintenance period. All plant material below the 75 percent threshold will be replaced at the beginning of the next growing season.
- The contractor will not be liable for plant loss due to theft or vandalism.

Survey for Reforestation

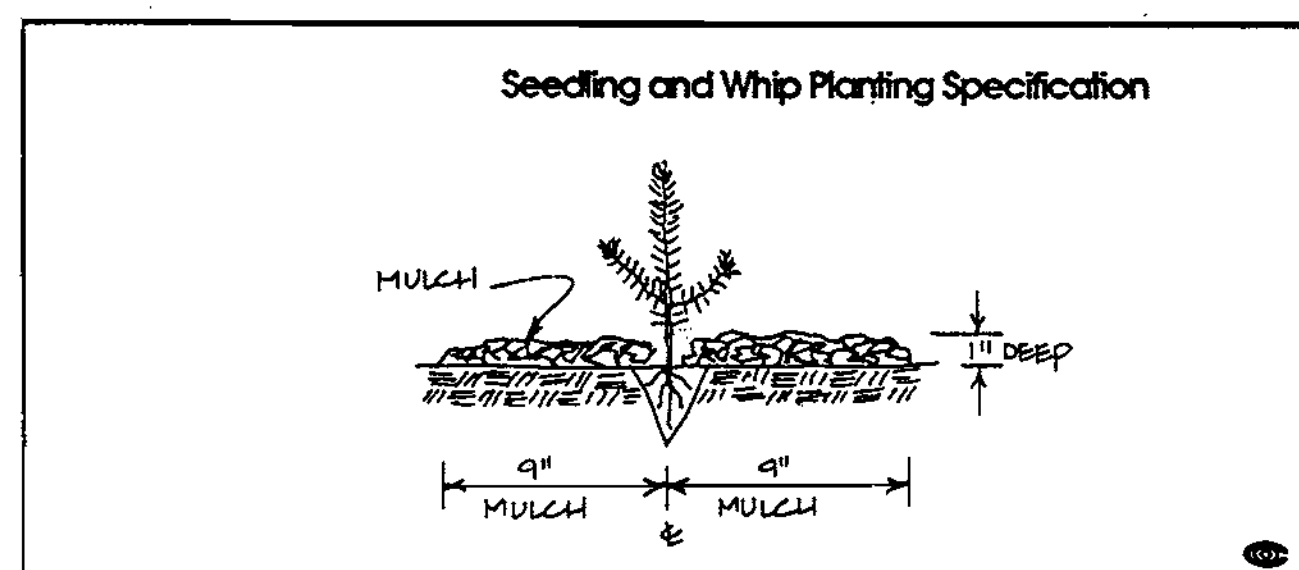
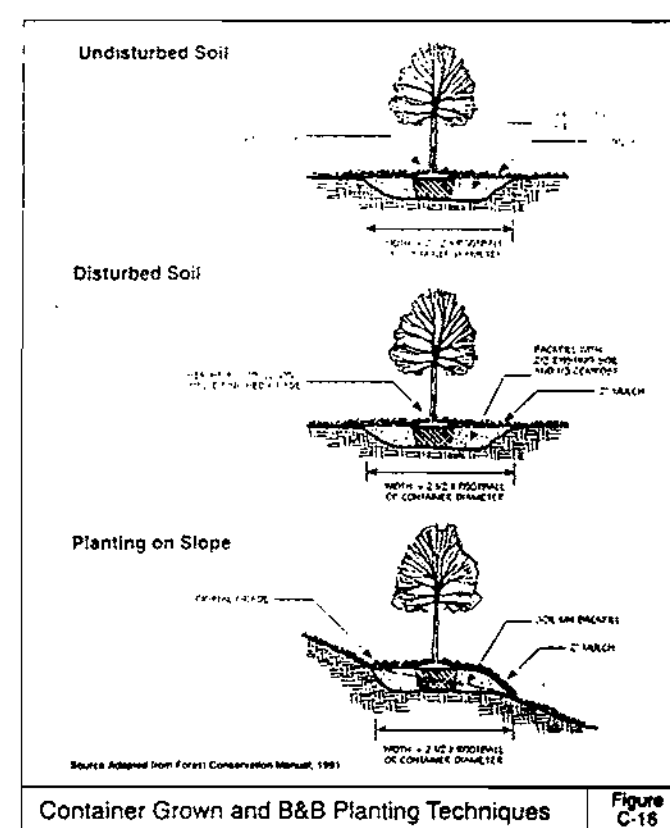
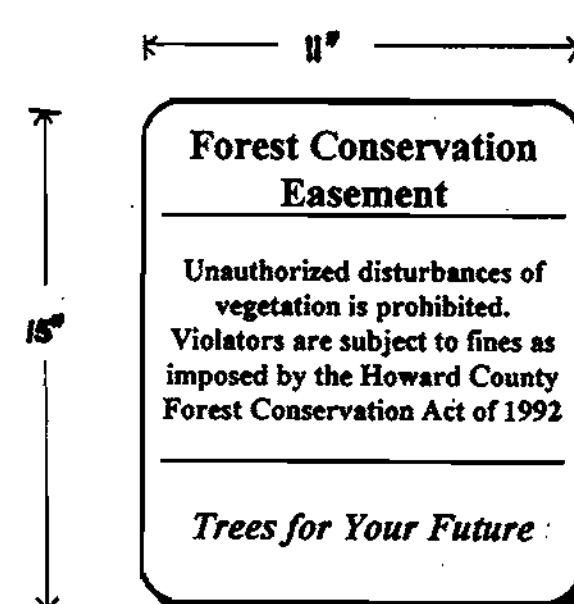
- The developer shall post a surety (bond, letter of credit) to ensure that reforestation plantings are completed. Upon acceptance of the plantings by the County, the bond shall be released.

RCP NOTES

- Any Forest Conservation Easement (FCE) area shown hereon is subject to protective covenants which may be found in the Land Records of Howard County which restrict the disturbance and use of these areas.
- Forested areas 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 FCE boundary, whichever is greater.
- There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Easement, except as permitted by Howard County DPZ.
- No stockpiles, parking areas, equipment cleaning areas, 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 FCE boundaries which occur within 15 feet of the proposed limits of disturbance.
- Permanent signage shall be placed 50-100' apart along the boundaries of all areas included in Forest Conservation Easements.
- The reforestation obligation of 1.2 acres will be met by a combination of onsite planting and fee-in-lieu payment. Onsite planting will consist of 0.3 acres of planting within the 100 year floodplain.

FOREST DATA	
Gross Area:	4.9 Acres
Net Tract Area (NTA):	2.8
Existing Forest (NTA):	2.1
Reforestation Threshold:	0.4
Forest to be Cleared (NTA):	2.1
Forest to be Retained in FCE:	0.0
Reforestation Required:	1.2
Onsite Reforestation Proposed:	0.3
Outstanding Reforestation Obligation:	0.9
Fee-in-lieu Cost:	\$11,761.20

Permanent Protective Signage



Sheet 2 of 2

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
 PLAN NUMBER _____ DATE _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/7/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/6/00
 DIRECTOR DATE 8/6/00

ADDRESS CHART

PARCEL NO. _____ STREET ADDRESS _____
 PARCEL # DEERPATH ROAD 6865

SUBDIVISION NAME DORSEY BUSINESS CENTER SECTION NAME 1 PARCEL # H

PLAT # 139 BLOCK # 6 ZONE 3743 ELEC. DIST. 1 CENSUS TRACT 6069.01
 WATER CODE B-01 SEWER CODE 2220000

PREPARED BY:

GWS

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 1020 Cromwell Bridge Road
 Towson, Maryland 21286
 (410) 825-8120



Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS
 P.O. Box 5006 Glen Arw, MD 21057 (410) 392-4732

MD DNR Qualified Professional
 USACE Wetland Deliberator
 Certification # WD003MD061004428
 John P. Casades

OWNER/DEVELOPER

WHALEN PROPERTIES, L.L.C.,
 DORSEY, SERIES XIV
 2 EAST ROLLING CROSSROADS
 SUITE 251
 CATONSVILLE, MD 21228
 (410) 747-2900

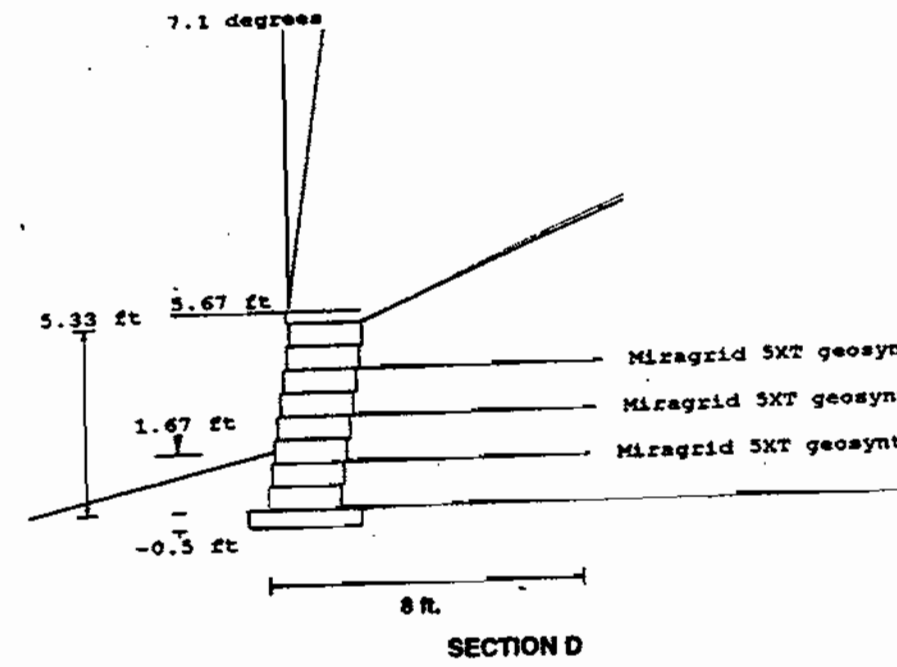
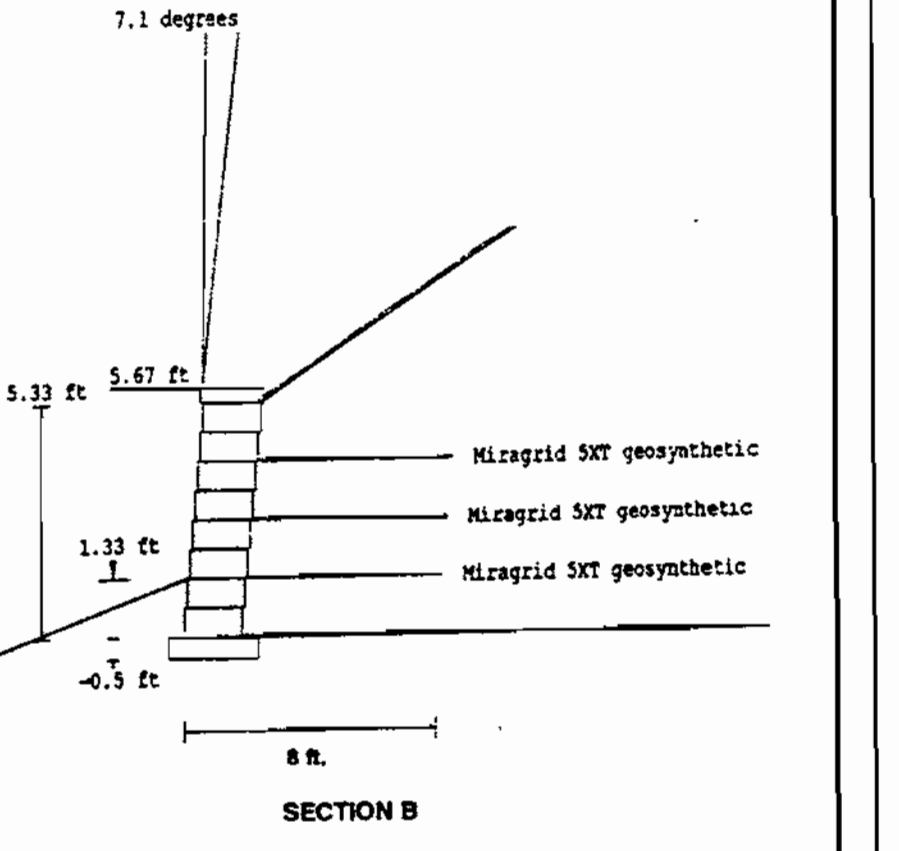
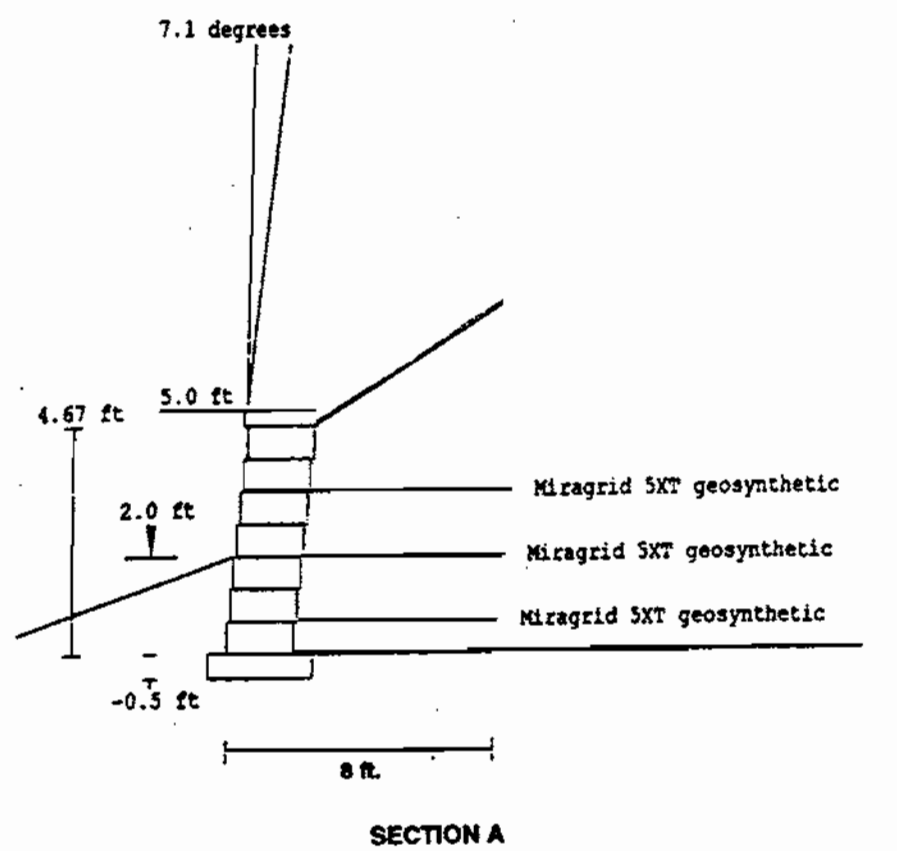
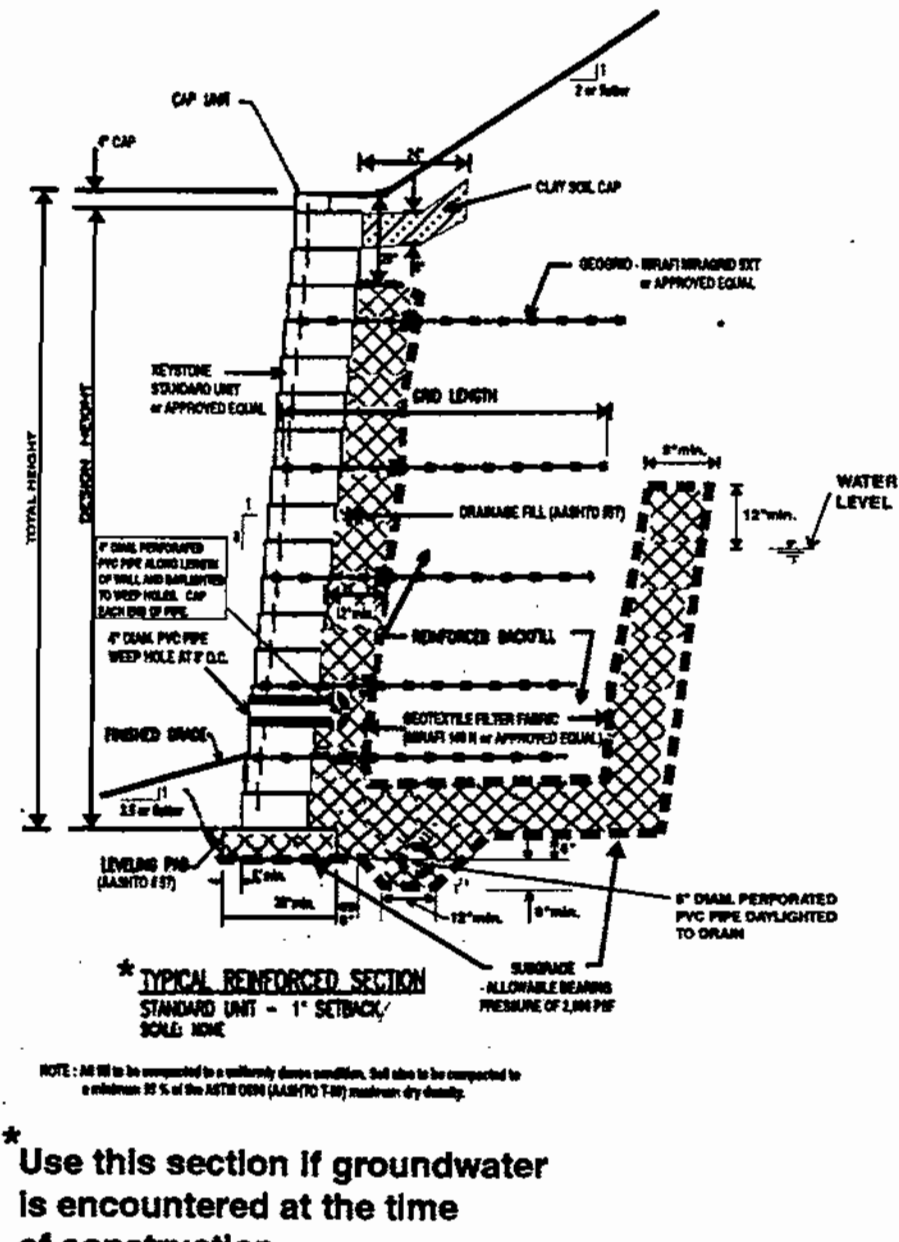
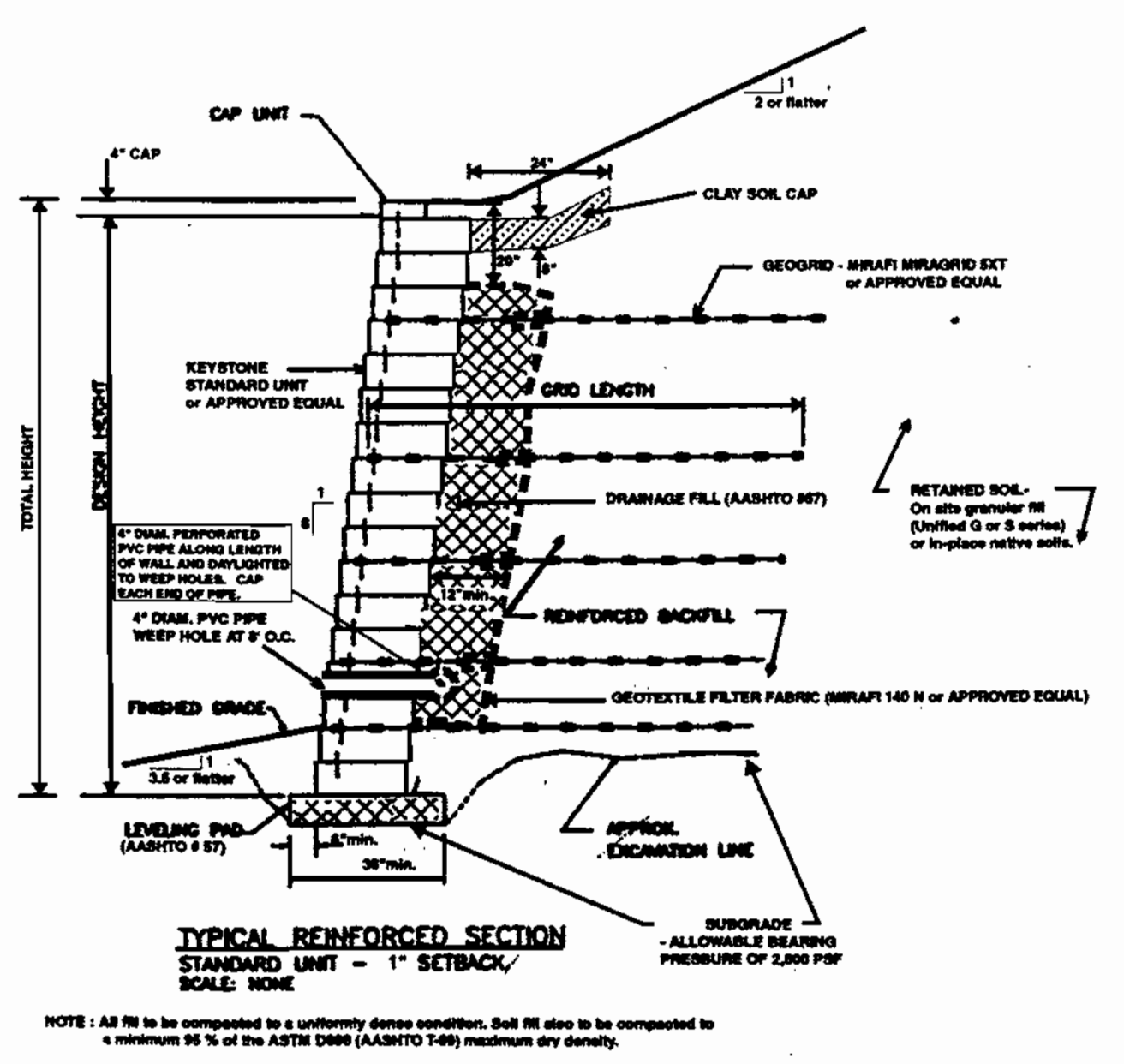
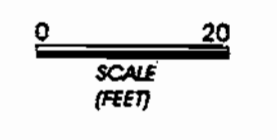
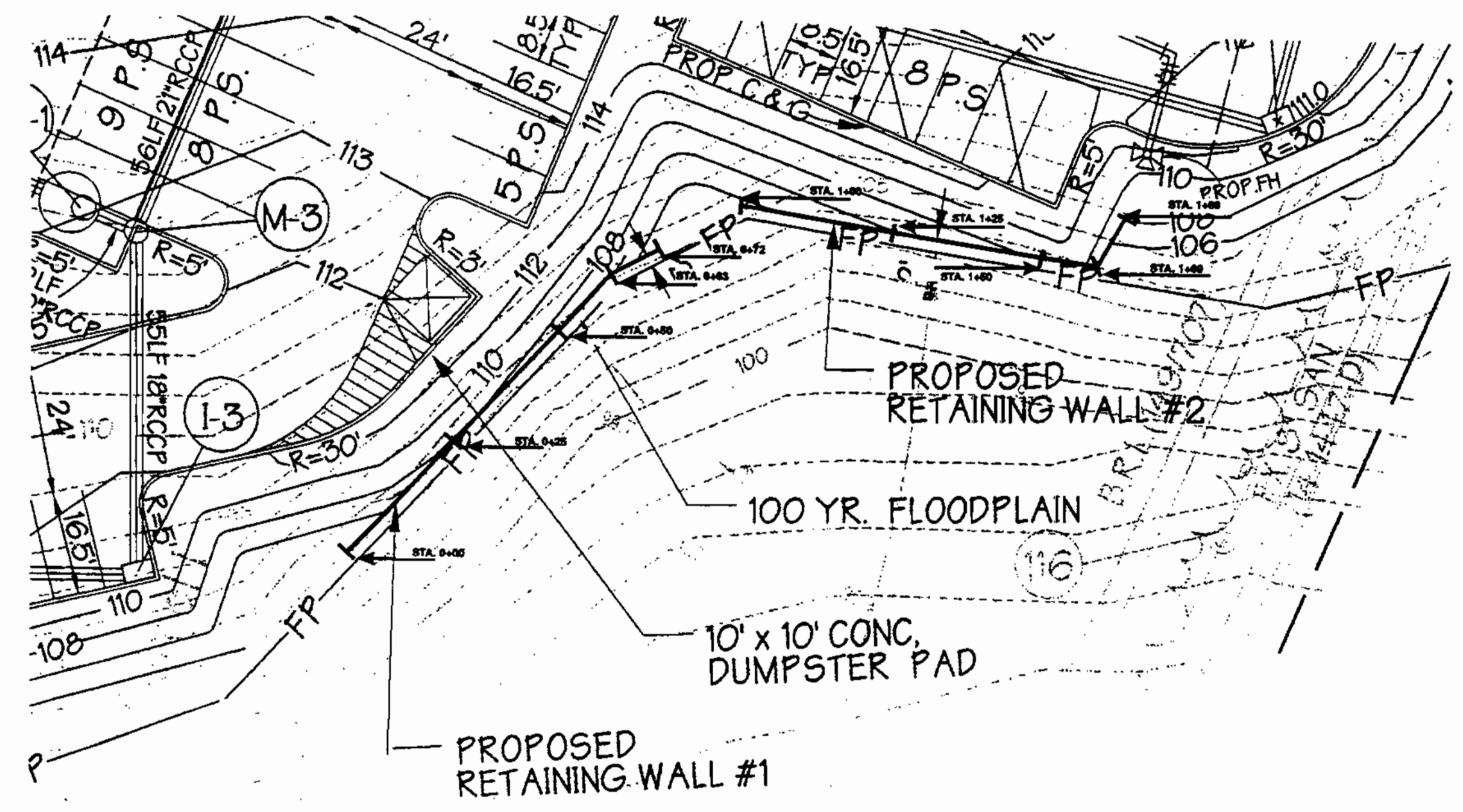
REVISIONS

FOREST CONSERVATION PLAN
 FOR
 DORSEY BUSINESS CENTER
 PARCEL H-1

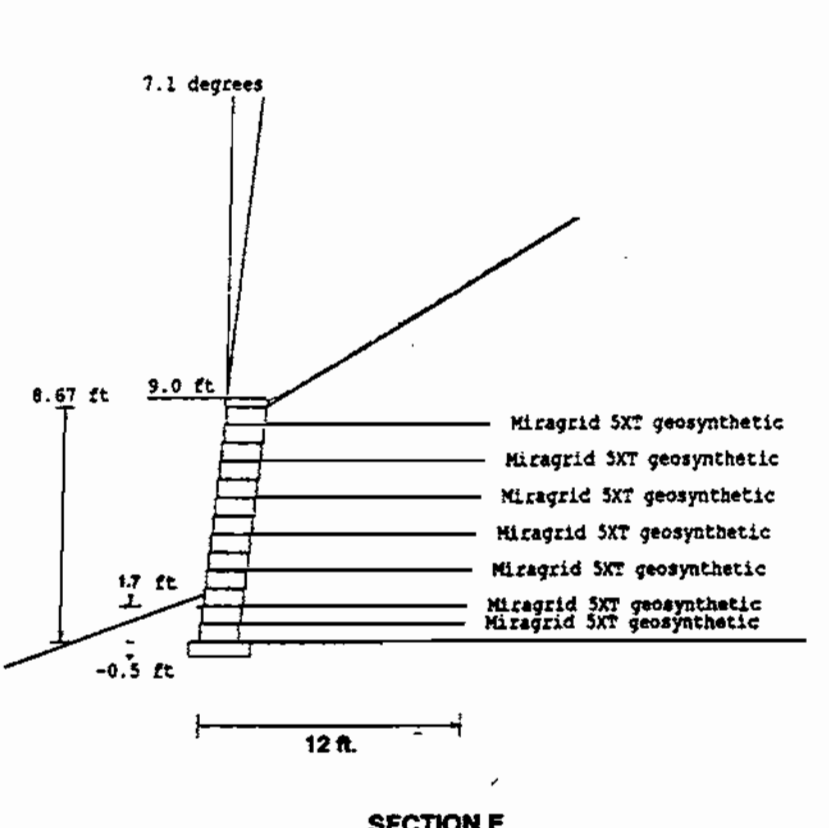
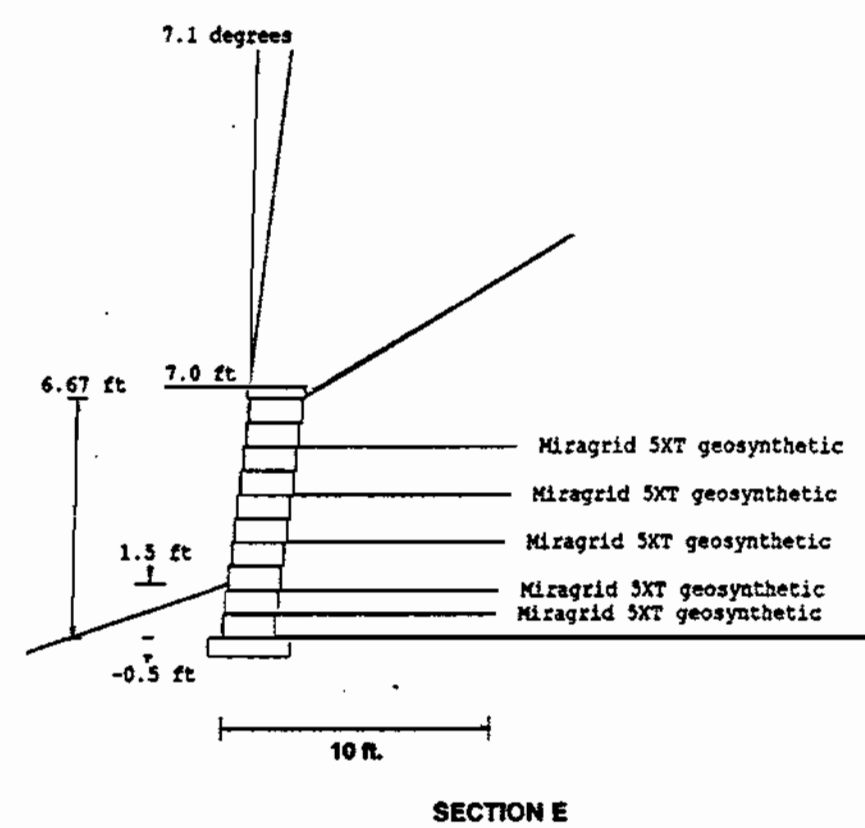
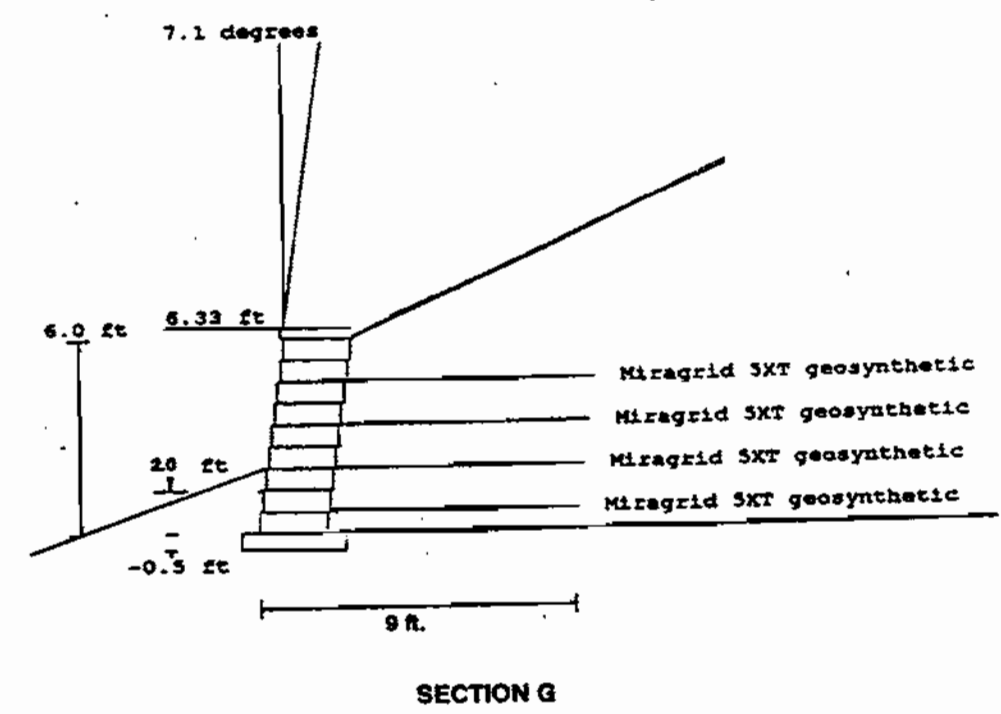
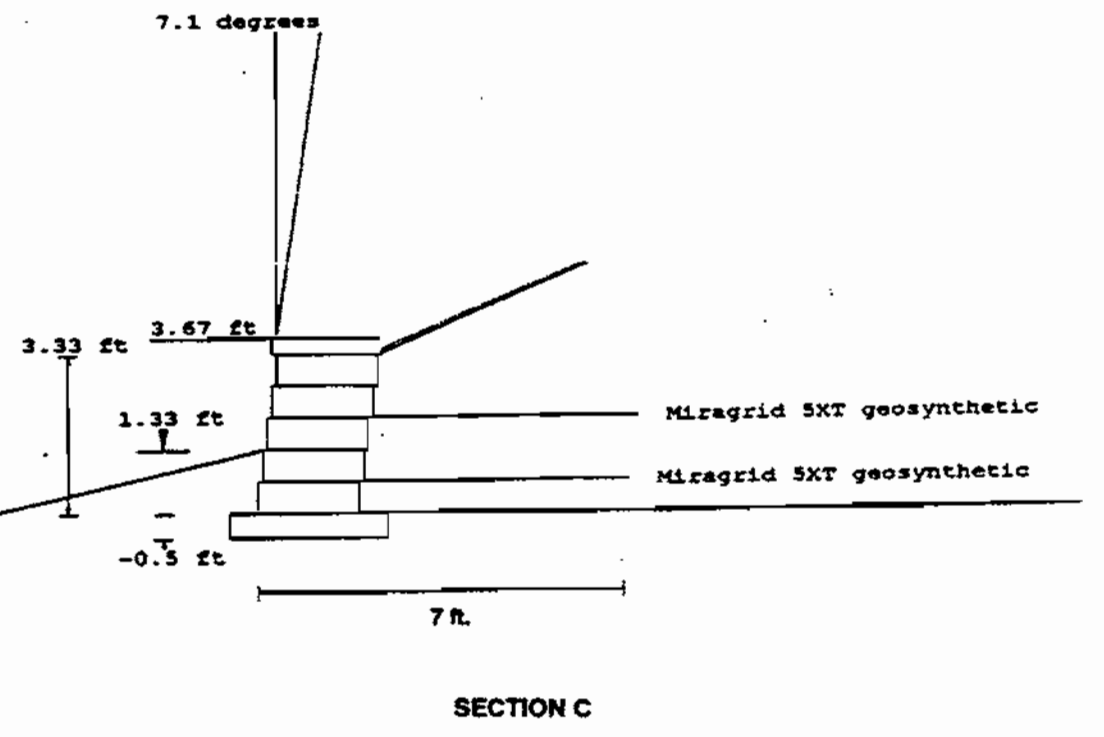
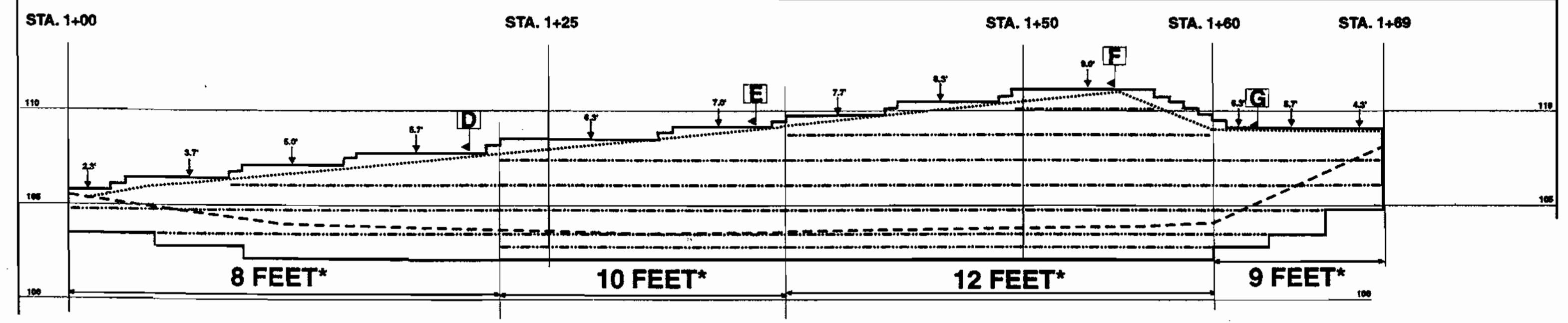
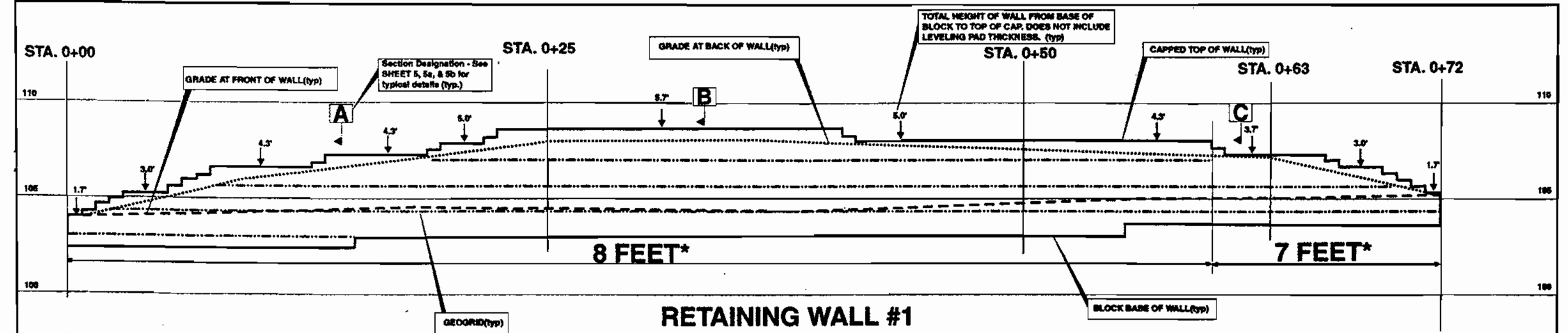
ELECTION DISTRICT: 1
 HOWARD COUNTY, MD

SHEET 12 OF 14

SDP-00-13
 SCALE: AS SHOWN
 FEB. 17, 2000

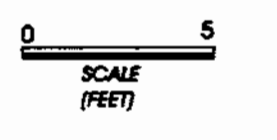


NOTE: Basic details taken from KEYSTONE Retaining Wall Systems Design Manual dated 1994. Details modified by the Geotechnical Engineer as deemed appropriate for this project.



NO SCALE

* "X" FEET - LENGTH OF GEOGRID BACK FROM FACE OF WALL



PREPARED BY:
GWS
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 1020 Cromwell Bridge Road
 Towson, Maryland 21286
 (410) 825-8120

HERBST/BENSON & ASSOCIATES Geotechnical Engineers
 414 Main Street Reisterstown, Maryland 21136
 Tel #1-800-800-0275, Fax #410-526-7268



OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
 DORSEY, SERIES XIV
 2 EAST ROLLING CROSSROADS
 SUITE 251
 CATONSVILLE, MD 21228
 (410) 747-2900

DESIGNED BY: G.R.S.
 DRAWN BY: H.C.
 CHECKED BY: G.R.S.

APPROVED: Howard County Department of Planning and Zoning

Richard Blood
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/10/00

James P. Smith
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 8/10/00

James P. Smith
 DIRECTOR
 DATE: 9/6/00

ADDRESS CHART
 PARCEL NO. DEERPATH ROAD 6B65

SUBDIVISION NAME DORSEY BUSSINESS CENTER		SECTION NAME 1	PARCEL # H
PLAT # 14391	BLOCK # 6	ZONE B-01	ELECT. DIST. 1
CENSUS TRACT 606901	SEWER CODE 2220000		

RETAINING WALL PROFILES AND DETAILS
 FOR
 DORSEY BUSINESS CENTER
 PARCEL H-1

ELECTION DISTRICT: 1
 HOWARD CO., MARYLAND

SHT. 13 OF 14

SDP-00-13
 SCALE: As Shown
 DATE: FEB. 17, 2000

PART 1: GENERAL

- 1.01 Description
- A. This work shall consist of furnishing and construction of a KEYSTONE Retaining Wall System or approved EQUAL in accordance with these specifications and in reasonably close conformity with these specifications and with the lines, grades, design, and dimensions shown on the plans.
- 1.02 Certification
- A. Contractor shall submit a Manufacturer's certification, prior to start of work, that the retaining wall system components meet the requirements of this specification.
- B. The contractor's submittal package shall include but not be limited to actual test results for tension/crawl, durability/aging, construction damage, geogrid/facing connection, pullout, and quality control.
- C. The engineering designs, techniques, and material evaluations shall be in accordance with the KEYSTONE Design Manual 1994, NCHM Design Guidelines for Segmental Retaining Walls, 1997 or the AASHTO Standard Specifications for Highway Bridges, 1993, whichever is applicable.

PART 2: PRODUCTS

- 2.01 Definitions
- A. Structural Geogrid - a structural element formed by a regular network of integrally connected tensile elements with apertures of sufficient size to allow interlocking with surrounding soil, rock or earth and function primarily as reinforcement.
- B. Modular Unit - a concrete retaining wall element machine made from portland cement, water, and aggregates.
- C. Unit Fill - drainage aggregate which is placed within and immediately behind the modular concrete units.
- D. Reinforced Backfill - compacted soil which is placed within the reinforced soil volume as outlined on the plans.

2.02 Modular Concrete Retaining Wall Units

- A. Modular concrete units shall conform to the following architectural requirements:
- face color - standard manufacturer's color or custom color as specified by the Owner.
 - face finish - sculptured rock face in angular multipaner configuration. Other face finishes will not be allowed without written approval of owner.
 - bond configuration - running with bonds normally located at midpoint vertically adjacent units, in both straight and curved alignments.
 - exposed surfaces of units shall be free of chips, cracks or other imperfections when viewed from a distance of 10 feet under diffused lighting.
- B. Modular concrete units shall conform to the following material requirements:
- Cement - Materials shall conform to the following applicable specifications:
 - Portland Cement - ASTM C 150
 - Modified Portland Cement - Portland cement conforming to ASTM C 150, modified as follows: Limestone - calcium carbonate, with a minimum 85% content, may be added to the cement, provided these requirements of C 150 as modified are met: (1) Limitation on insoluble residue 1.5%; (2) Limitation on air content of mortar - volume percent, 22% maximum; and (3) Limitations of loss of ignition - 7%
 - Blended Cements - ASTM C 818
 - Pozzolans - ASTM C 818
 - Blast Furnace Slag Cement - ASTM C 989
 - Aggregates - aggregates shall conform to the following specifications, as applicable:
 - Normal Weight Aggregates - ASTM C 33
 - Lightweight Aggregates - ASTM C 331
 - Other Constituents - Air entraining agents, coloring pigments, integral water repellents, finely ground silica, and other constituents shall be previously established as suitable for use in modular concrete retaining wall units and shall conform to applicable ASTM standards or shall be shown by test or experience to be not detrimental to the durability of the modular concrete units or any material customarily used in retaining wall construction.
- C. Modular concrete units shall conform to the following structural and geometric requirements:
- compressive strength = 3000 psi minimum;
 - absorption = 8% maximum (6% in northern states) for standard weight aggregates;
 - unit depth - 20 inches minimum;
 - unit width to height ratio = 2.25:1;
 - unit weight - 90 lbs/unit minimum for standard weight aggregates
 - inter-unit shear strength - 1500 pcf minimum at 2 psi normal pressure;
 - geogrid/unit peak connection strength - 1000 pcf minimum at 2 psi normal force
 - maximum horizontal gap between erected units shall be - 1/2 inch.
- D. Modular concrete units shall conform to the following constructability requirements:
- vertical setback = 1/8" per course (near vertical) or 1" per course per the design drawings;
 - alignment and grid positioning mechanism - fiberglass pins, two per unit minimum.

- 2.03 Shear Connectors
- A. Strength of shear connectors between vertical adjacent units shall be applicable over a design temperature of 10 degrees F to +100 degrees F. Shear connectors shall be 1/2 inch diameter thermal isophthalic polyester resin-impregnated fiberglass reinforcement rods. Connectors shall have a minimum flexural strength of 128,000 psi and short beam shear of 6,400 psi.
- B. Shear connectors shall be capable of holding the geogrid in the proper design position during grid pre-tensioning and backfilling.

- 2.04 Base Leveling Pad Material
- A. Material shall consist of a compacted crushed stone base as shown on the construction drawings. The leveling pad shall be a minimum of 8 inches thick.

- 2.05 Unit Fill
- A. Unit fill shall consist of clean crushed stone conforming to the gradation of AASHTO #57 aggregate.
- B. One cubic foot, minimum, of drain fill shall be used for each square foot of wall face. Drain fill shall be placed within cores of, between, and behind units to meet this requirement.

- 2.06 Reinforced Backfill
- A. Reinforced backfill shall be free of debris and meet the following gradation requirements:
- | Sieve Size | Percent Passing |
|------------|-----------------|
| 3/4 inch | 100 |
| No. 4 | 100-20 |
| No. 40 | 0-60 |
| No. 200 | 0-35 |
- Plasticity Index (PI) <5 and Liquid Limit <36.
- B. Material can be site excavated soils where the above requirements can be met. Unsuitable soils for backfill (high plastic clays or organic soils) shall not be used in the backfill or in the reinforced soil mass.
- C. Contractor shall submit reinforced fill sample and laboratory test results to the Engineer for approval prior to the use of any proposed reinforced fill material.

- 2.07 Geogrid
- A. Geogrid to consist of Miraf MIRAQRD 5XT or approved equal or stronger geogrid. Geogrid properties to be determined as follow:

Ta, Allowable Tensile Design Load, shall be determined as follow:
 $Ta = Tcr / (FD \cdot FC \cdot FS)$
 Ta shall be evaluated based on a 75 year design life.

Tcr, Creep Limited Tensile Load
 Tcr shall be determined from 10,000 hour creep testing performed in accordance with ASTM D5262.

FD, Factor for Durability/Aging
 FD shall be determined from polymer specific durability testing covering the range of expected soil environments.

FC, Factor for Construction Damage
 FC shall be determined from product specific construction damage testing performed in accordance with GRI-G04. Test results shall be provided for each product to be used with project specific or more severe soil type.

FS, Overall Factor of Safety
 FS shall be 1.5 unless otherwise noted.

The maximum design tensile load of the geogrid shall not exceed the laboratory tested ultimate strength of the geogrid/facing unit connection as limited by the "Hinge Height" divided by a factor of safety of 1.5. The connection strength testing and computation procedures shall be in accordance with NCHM test methods.

Soil Interaction Coefficient, Ci
 Ci values shall be determined per GRI-G05 at a maximum 0.75 inch displacement.

Manufacturing Quality Control
 The geogrid manufacturer shall have a manufacturing quality control program that includes QC testing for each 40,000 SF of production, each lot, or each production day. The QC testing shall include:
 Tensile Modulus
 Specific Gravity
 Moist Flow Index (PFI-MFI)
 Molecular Weight (PETP)

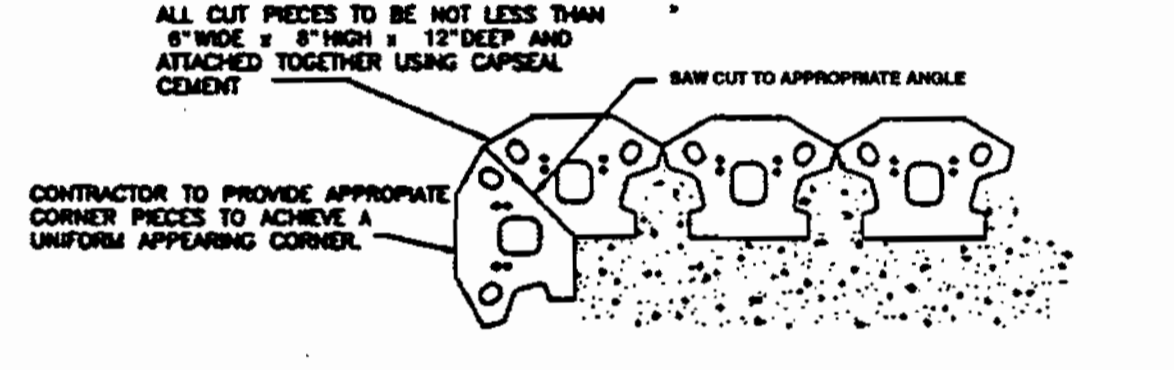
PART 3: EXECUTION

- 3.01 Excavation
- A. Contractor shall excavate to the lines and grades shown on the construction drawings. Engineer or his designated representative shall inspect the excavation and approve prior to placement of leveling material or fill soil.
- B. Over-excavation of deleterious soils and replacement with suitable fill will be paid at unit cost rates.

- 3.02 Base Leveling Pad
- A. Leveling pad material(s) shall be placed to the lines and grades shown on the construction drawings, to a minimum thickness of 8 inches.
- B. Soil leveling pad materials shall be compacted to a minimum of 95% standard or 90% modified Proctor.
- C. Leveling pad shall be prepared to insure full contact to the base surface of the concrete units.

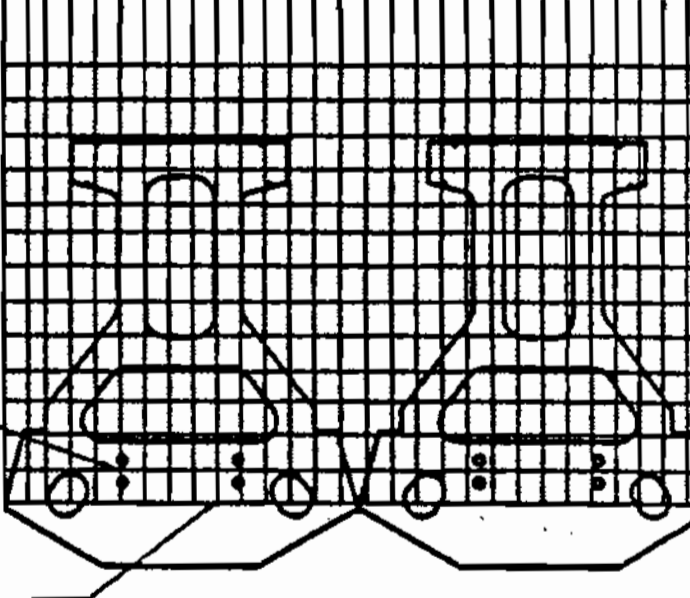
- 3.03 KEYSTONE Unit Installation
- A. First course of units shall be placed on the leveling pad, and alignment and level checked. Pins or marked surfaces of modular concrete units shall be used for alignment control.
- B. Position vertically adjacent modular concrete units as recommended by the Manufacturer.
- C. Maximum stacked vertical height of wall units, prior to wall drain fill and backfill placement and compaction, shall not exceed two courses.
- D. Whole, or cut, units on curves and corners to shall be erected with running bond approximately centered on units above and below.
- E. Cap units shall be glued to underlying units with an adhesive recommended by the manufacturer.
- 3.04 Structural Geogrid Installation
- A. Geogrid shall be oriented with the highest strength axis perpendicular to the wall alignment.
- B. Geogrid reinforcement shall be placed at the elevations and to the extent shown on the construction drawings or as directed by the Engineer.
- C. The geogrid shall be laid horizontally on compacted backfill. Place the next course of modular concrete units over geogrid. The geogrid shall be pulled taut, and anchored prior to backfill placement on the geogrid.
- D. Geogrid reinforcements shall be continuous throughout their embedment lengths. Spliced connections between shorter pieces of geogrid is not allowed unless pre-approved by the Architect/Engineer prior to construction.
- 3.05 Reinforced Backfill Placement
- A. Reinforced backfill shall be placed, spread, and compacted in such a manner that minimizes the development of slack in the geogrid.
- B. Reinforced backfill shall be placed and compacted in lifts not to exceed 8 inches where hand compaction is used, or 12 inches where heavy compaction equipment is used.
- C. Reinforced backfill shall be compacted to 95% of the maximum density as determined by ASTM D695. The moisture content of the backfill material prior to and during compaction shall be uniformly distributed throughout each layer and shall be within 2 percentage points dry of optimum.
- D. Only light weight hand-operated equipment shall be allowed within 3 feet from the tail of the modular concrete unit.
- E. Tracked construction equipment shall not be operated directly upon the geogrid reinforcement. A minimum clearance of 8 inches is required prior to operation of tracked vehicles over the geogrid. Tracked vehicle turning should be kept to a minimum to prevent tracks from displacing the fill and damaging the geogrid.
- F. Rubber lined equipment may pass over geogrid reinforcement at slow speeds, less than 10 MPH. Sudden braking and sharp turning shall be avoided.
- G. At the end of each day's operation, the Contractor shall slope the last lift of reinforced backfill away from the wall units to direct runoff away from wall faces. The Contractor shall not allow surface runoff from adjacent areas to enter the wall construction site.

End of Specification

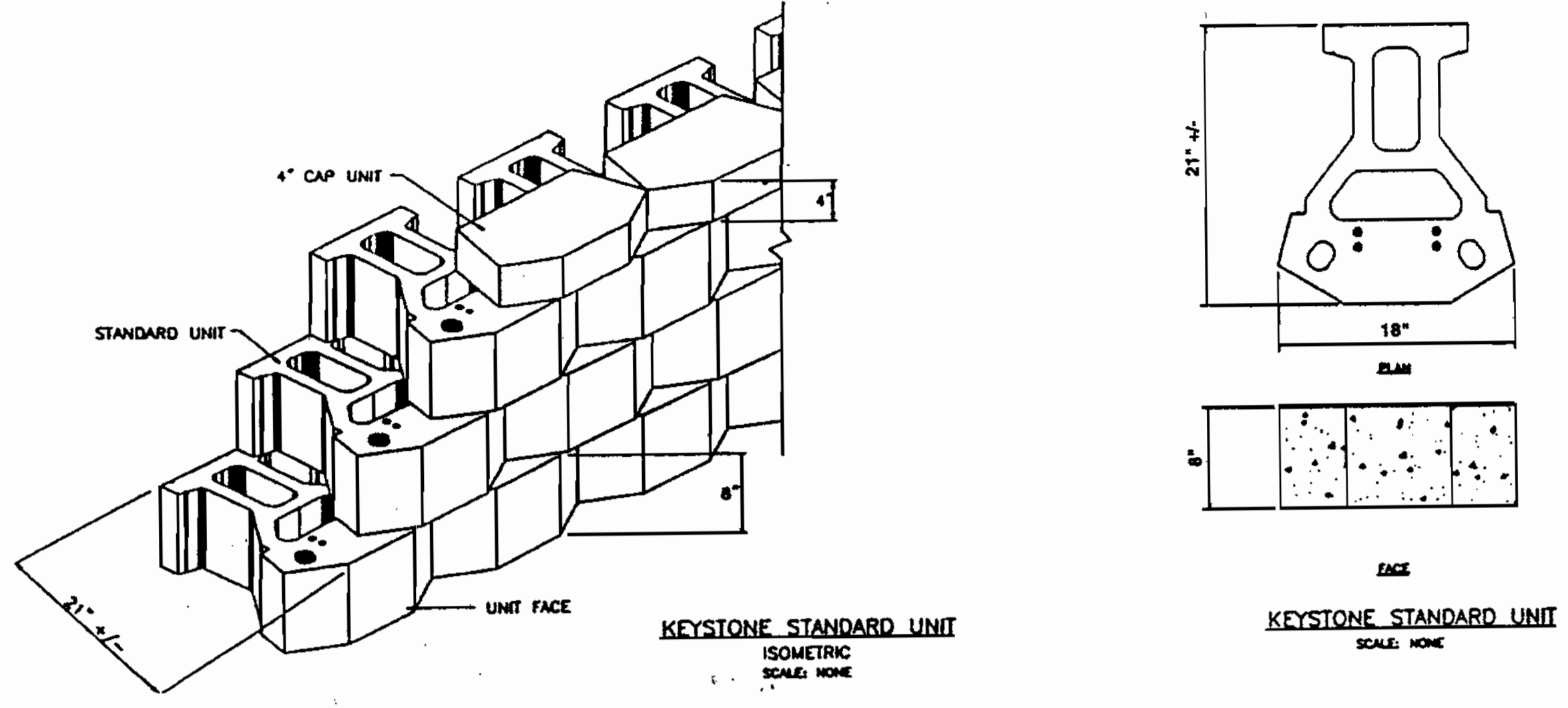


TYPICAL CORNER DETAIL

PLAN SCALE: NONE

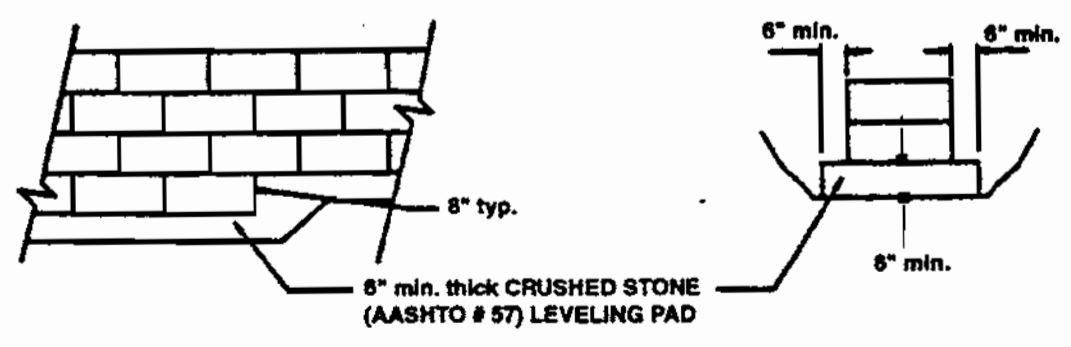


KEYSTONE STANDARD UNIT GRID/PIN CONNECTION SCALE: NONE

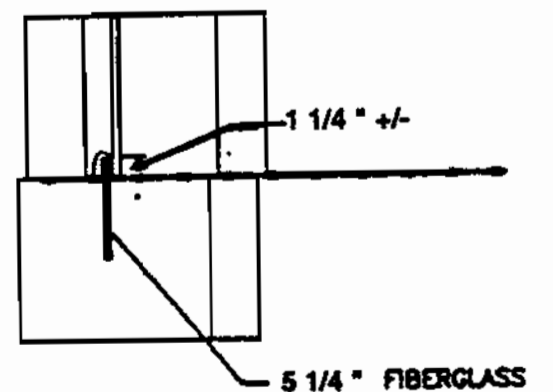


KEYSTONE STANDARD UNIT ISOMETRIC SCALE: NONE

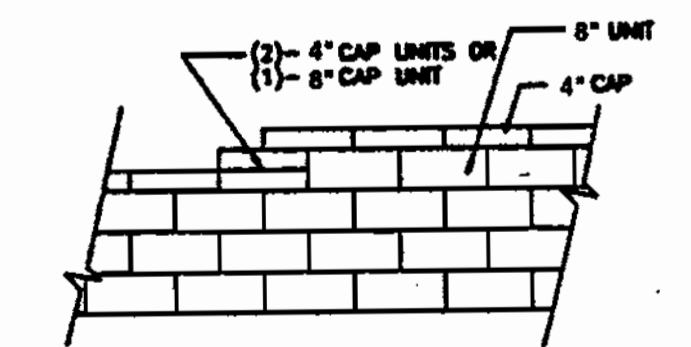
KEYSTONE STANDARD UNIT SCALE: NONE



LEVELING PAD AND STEP DETAILS SCALE: NONE



KEYSTONE STANDARD UNIT GRID CONNECTION SCALE: NONE



TOP OF WALL STEPS SCALE: NONE

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 1020 Cromwell Bridge Road
 Towson, Maryland 21286
 (410) 825-8120

HERBST/BENSON & ASSOCIATES Geotechnical Engineers
 414 Main Street Reisterstown, Maryland 21136
 Tel #1-800-800-0275, Fax #410-526-7268



OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C., DORSEY, SERIES XIV
 2 EAST ROLLING CROSSROADS SUITE 251
 CATONVILLE, MD 21228
 (410) 747-2900

DESIGNED BY: G.R.S.
 DRAWN BY: H.C.
 CHECKED BY: G.R.S.

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION *[Signature]* 8/2/00
 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* 8/1/00
 DATE

DIRECTOR *[Signature]* 8/6/00
 DATE

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
PARCEL H	DEERPATH ROAD #6265

SUBDIVISION NAME	SECTION NAME	PARCEL #
DORSEY BUSINESS CENTER	1	H

PLAT #	BLOCK #	ZONE	TAX MAP	ELECT. DIST.	CENSUS TRACT
14391	6	3743	1	606901	

WATER CODE: B-01 SEWER CODE: 2220000

RETAINING WALL NOTES AND DETAILS
 FOR
 DORSEY BUSINESS CENTER
 PARCEL H-1

ELECTION DISTRICT: 1
 HOWARD CO., MARYLAND

SHT. 14 OF 14 SDP-00-13


SDP-00-13
 SCALE: As Shown
 DATE: FEB. 17, 2000

Construction Notes

1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-918-1890 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.
2. ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
3. THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
4. CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE AND FINISH.
5. ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE, UNLESS OTHERWISE NOTED.
6. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
7. THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING, ETC. ARE TO BE REMOVED PRIOR TO PLACING A BID ON SUCH ITEMS.
8. THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD-VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICTS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT G. W. STEPHENS AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, IF NECESSARY, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE FACILITIES, IF NECESSARY.
9. CONTRACTOR SHALL PROTECT ALL EXISTING TREES OUTSIDE THE LIMIT OF DISTURBANCE AT ALL TIMES DURING CONSTRUCTION.
10. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION. COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NOT BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE LOCATION. ANY DAMAGE TO OFFSITE ROADS, RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL CLEAR THE PROJECT SITE OF ALL TREES, PAVING STRUCTURES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLAN.
12. ONLY SUITABLE MATERIAL SHALL BE USED AS FILL AND ALL FILL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN THE SOILS REPORT PREPARED FOR THIS SITE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ALL 2:1 SLOPES SHOWN HEREON, EXCEPTING THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
13. MAXIMUM SLOPE SHALL BE 2 HORIZONTALLY TO 1 VERTICALLY.
14. CONTRACTOR SHALL PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS.
15. ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
16. CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 FOOT OF PROTECTIVE FILL OVER STORM DRAIN PIPES DURING CONSTRUCTION.
17. CONTRACTOR SHALL PROVIDE ALL PAVEMENT MARKINGS AND SIGNAGE FOR HANDICAPPED PARKING SPACES INDICATED HEREON IN ACCORDANCE WITH ALL APPLICABLE CODES. ALL PAVEMENT MARKINGS TO BE TRAFFIC WHITE.
18. ALL HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED, LATEST EDITION.
19. ALL TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES." ALL STREET AND REGULATORY SIGNS SHALL BE INSTALLED PRIOR TO INSTALLATION OF FINISHED PAVING.
20. THE CONTRACTOR SHALL REPLACE ANY EXISTING BITUMINOUS PAVING OR SUB-BASE WHICH IS DAMAGED OR REMOVED DURING CONSTRUCTION. ALL EXCAVATED AREAS SHALL BE BACKFILLED AND IN ACCORDANCE WITH THE SOILS REPORT AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ANY AREAS TO BE PAVED WHICH EXHIBIT UNSTABLE SUBGRADE CONDITIONS SHALL BE EXCAVATED TO BEARING SOIL, REFILLED AND COMPACTED.
21. ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
22. PREFORMED ELASTOMERIC COMPRESSION JOINT MATERIAL SHALL BE INSTALLED AT ALL MEETINGS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.
23. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY PREPARED BY G. W. STEPHENS JR. & ASSOCIATES DATED MARCH 1999.
24. OUTDOOR LIGHTING WILL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
25. 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 NO. 371A WAS USED FOR THIS PROJECT.
26. WATER IS PUBLIC.
27. SEWER IS PUBLIC.
28. EXISTING UTILITIES ARE BASED ON SURVEY PREPARED BY GWS.
29. PROPOSED SIDEWALK IS 5" THICK CONCRETE (MIX NO. 2) ON 4" CRUSHER RUN BASE.

NOTE:
The owner shall provide a separate and independent sewer connection for each tenant or occupant of any building shown on this site development plan who will discharge non-domestic waste to the public sewerage system if each separate and independent sewer connection shall include a standard manhole and other waste pretreatment devices as required and approved by Howard County. Waste lines on the interior of the building shall be designed, constructed or modified such that non-domestic waste will be discharged to the separate and independent sewer connection. No tenant or occupant of any building shown on this site development plan shall discharge regulated non-domestic waste to the public sewerage system prior to installation of the separate and independent sewer connection and related interior waste lines. The above statement shall apply to all initial and future occupants or tenants.

PREPARED BY:
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120



PARKING CALCULATION
PARKING SPACES REQUIRED
63,241 SF OFFICE AT 3.3 PS @ 1000SF = 209 PS
8.5' x 16.5' PARKING SPACES = 45 (INCL. 8 HDCCP)
9'0" x 18'0" PARKING SPACES = 206
PARKING SPACES PROVIDED = 251 P.S. (INCL. 8 HDCCP)
VAN ACCESSIBLE PARKING SPACES ARE 16' x 16.5' (min.)

HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION INSPECTION DIVISION

PLAN
SCALE: 1" = 40'

NOTE: METER FOR PROPOSED BLDG IS INSIDE AND PRIVATE

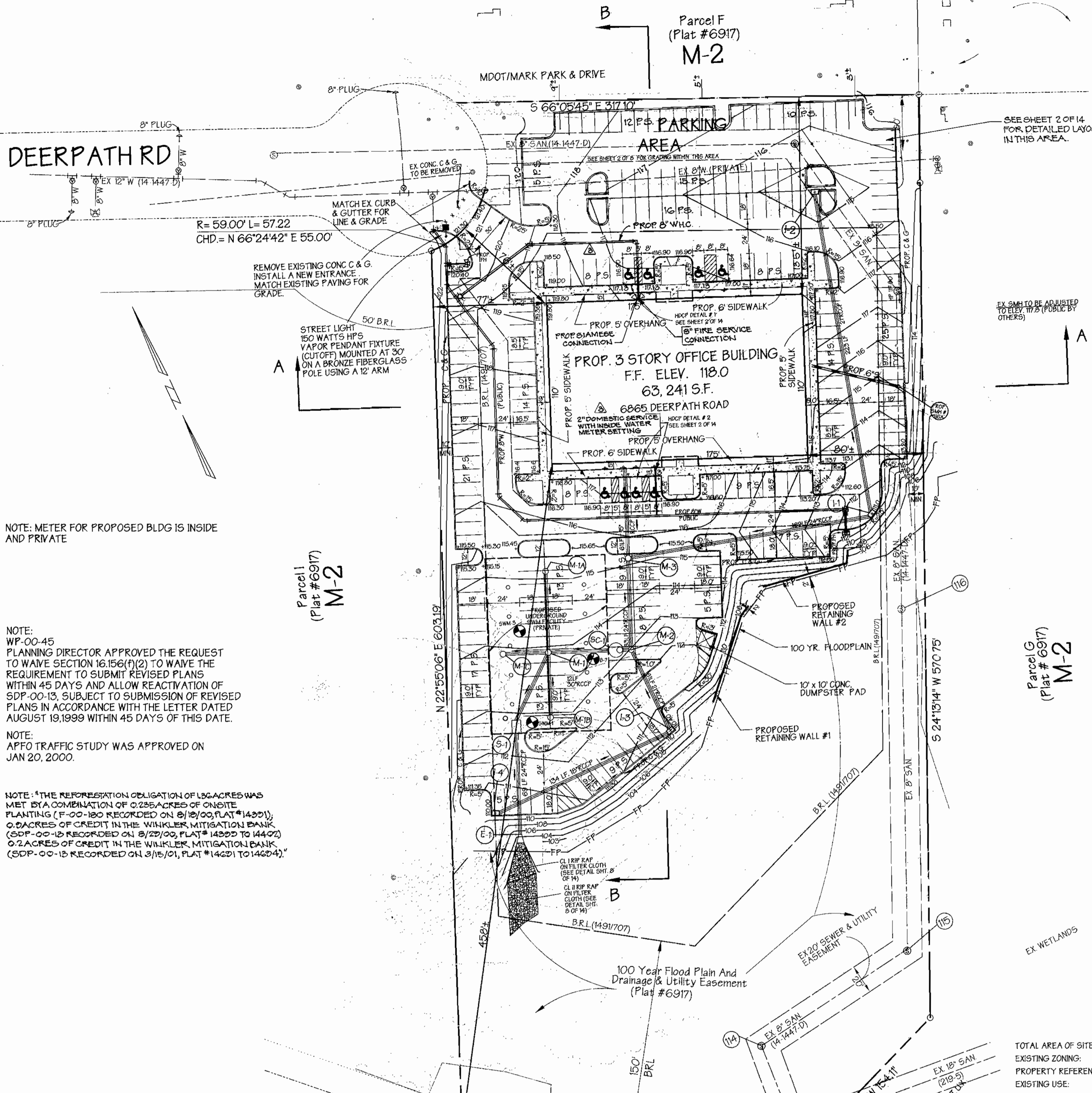
NOTE:
WP-00-45 PLANNING DIRECTOR APPROVED THE REQUEST TO WAIVE SECTION 16.156(P)(2) TO WAIVE THE REQUIREMENT TO SUBMIT REVISED PLANS WITHIN 45 DAYS AND ALLOW REACTIVATION OF SDP-00-13, SUBJECT TO SUBMISSION OF REVISED PLANS IN ACCORDANCE WITH THE LETTER DATED AUGUST 19, 1999 WITHIN 45 DAYS OF THIS DATE.

NOTE:
APFO TRAFFIC STUDY WAS APPROVED ON JAN 20, 2000.

NOTE: "THE REFORESTATION OBLIGATION OF 0.23 ACRES WAS MET BY A COMBINATION OF 0.23 ACRES OF ONSITE PLANTING (17-00-180 RECORDED ON 8/18/03, PLAT #14821), 0.2 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK (SDP-00-13 RECORDED ON 8/23/03, PLAT #14820 TO 14420), 0.2 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK (SDP-00-13 RECORDED ON 3/15/01, PLAT #14621 TO 14624)."

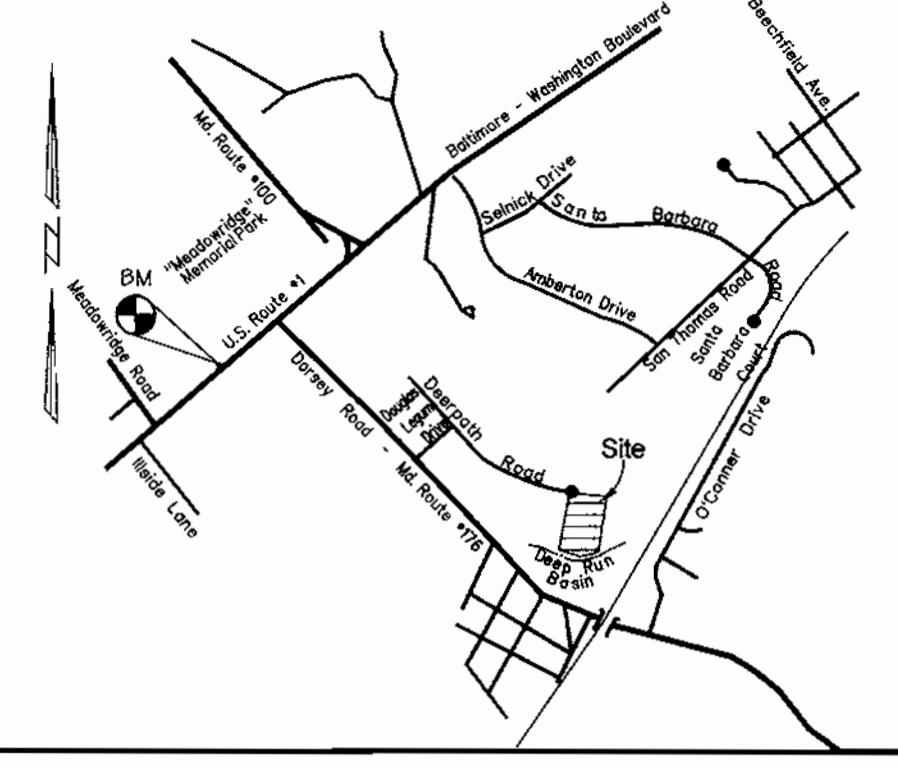
Emmanuel United Evangelical Church of Dorsey (727/1381)

C.A. Carter, Sr. (776/233)



Legend

- Ex. 2' Contours --- 394
- Ex. 10' Contours --- 395
- Prop. 2' Contours --- 394
- Prop. 10' Contours --- 395
- Ex. Curb & Gutter ---
- Prop. Curb & Gutter ---
- Bldg. Restriction Line ---
- Ex. Sanitary ---
- Ex. Storm Drain ---
- Ex. Water ---
- Prop. Sanitary ---
- Prop. Storm Drain ---
- Prop. Water ---
- Concrete Paving ---
- Light Duty Paving (P-3) ---
- Wetlands ---
- Flood Plain ---
- Ex. Conc. C&G to be Removed ---
- Proposed Reverse Conc. ---
- Curb & Gutter ---
- Ex. Trees ---
- Street Light ---



LOCATION MAP
SCALE: 1" = 2000'

BENCHMARK:
HUB # 371A ELEV. 59.6653
DISC SET ON TOP OF CONCRETE (3' DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 15' FROM R/W LINE.

SHEET INDEX

SHEET 1 OF 14	SITE PLAN
SHEET 2 OF 14	SITE & HANDICAP DETAILS
SHEET 3 OF 14	STORM DRAIN & SEWER PROFILES
SHEET 4 OF 14	STORMCEPTOR PLAN
SHEET 5 OF 14	SEDIMENT CONTROL PLAN
SHEET 6 OF 14	SEDIMENT CONTROL NOTES AND DETAILS
SHEET 7 OF 14	STORMWATER MANAGEMENT DRAINAGE AREA MAPS
SHEET 8 OF 14	STORMWATER MANAGEMENT PLANS & PROFILES
SHEET 9 OF 14	STORMWATER MANAGEMENT NOTES AND DETAILS
SHEET 10 OF 14	LANDSCAPE PLAN
SHEET 11 OF 14	FOREST CONSERVATION PLAN
SHEET 12 OF 14	RETAINING WALL PROFILES & DETAILS
SHEET 13 OF 14	RETAINING WALL NOTES & DETAILS
SHEET 14 OF 14	RETAINING WALL NOTES & DETAILS

State Railroad Administration
of The Department of Transportation
(234-51662)

SITE DATA

TOTAL AREA OF SITE: 4.87297 AC
EXISTING ZONING: M-2 (SEE AA-87-06)
PROPERTY REFERENCE: L-1300, F-547
EXISTING USE: VACANT
PROPOSED USE: OFFICE
BUILDING COVERAGE: 19,250 SF OR 0.44 AC
% BUILDING COVERAGE: 9.0%
FLOOR AREA RATIO: 0.27
AREA TO BE PAVED PLUS BUILDING AREA: 2.36 AC
OPEN SPACE: 0.15 AC
% PARKING LOT COVERAGE: 3.9%
AREA TO BE DISTURBED: 3.25 AC OR 141,570 S.F.
0.75 AC
AREA TO BE VEGETATIVELY STABILIZED: 0.75 AC
RECORD PLAT #14821 RECORDED ON 05/18/00 (F-00-180)

DATE	REVISIONS
04.22.03	RELOCATED 8" FIRE SERVICE & ADDED RELOCATED 2" DOMESTIC SERVICE

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: K.J.
DRAWN BY: H.C.
CHECKED BY: T.H.
REVISIONS
11/15/99 - REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS (Section 133, Zoning Regulations)
11/01/00 - ADDED ADDITIONAL PARKING AREA

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.	
APPROVED: HOWARD SOIL CONSERVATION DISTRICT	7/25/00 DATE
Reviewed for Howard SCD and meets Technical Requirements	
USDA-NATURAL RESOURCES CONSERVATION SERVICE	2/25/00 DATE
APPROVED: Howard County Department of Planning and Zoning	
CHIEF, DEVELOPMENT ENGINEERING DIVISION	8/7/00 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	9/1/00 DATE
DIRECTOR	9/6/00 DATE
ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6665
SUBDIVISION NAME	
DORSEY BUSINESS CENTER	SECTION NAME 1
PLAT # 14391	BLOCK # 6
WATER CODE B-01	SEWER CODE 2220000

SITE PLAN
FOR
DORSEY BUSINESS CENTER
PARCEL H-1

ELECTION DISTRICT: 1
HOWARD COUNTY, MD

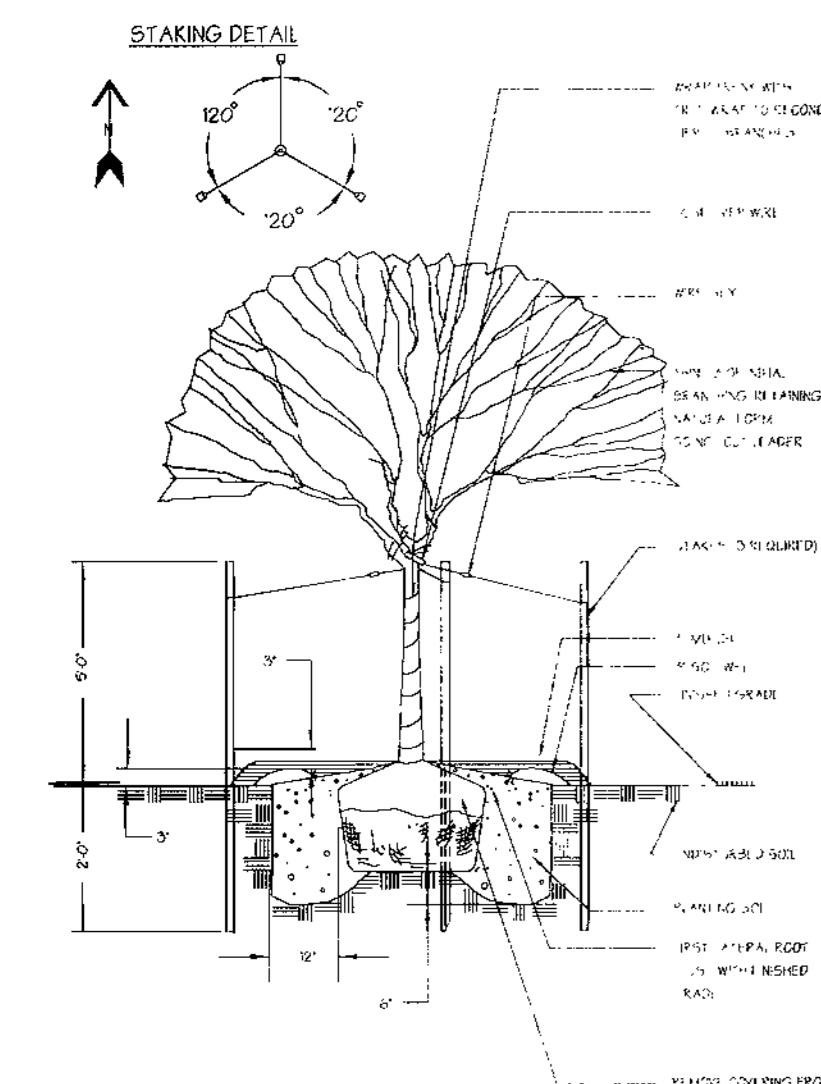
SHEET 1 OF 14

SDP-00-13
SCALE: AS SHOWN
FEBRUARY 17, 2000

NOTE:
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$4,200.00.

NOTE:
THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED



Tree Planting Detail
NOT TO SCALE

PLANTING NOTES
PLANT LOCATIONS SHALL BE FIELD ADJUSTED TO AVOID UTILITIES. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO START OF WORK. ALL TREES AND SHRUBS SHALL BE MULCHED TO A MINIMUM OF 3\"/>

PLANT STANDARDS
ALL NURSERY STOCK SHALL BE TOP QUALITY AND IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN INC. AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION. INFERIOR NURSERY STOCK WILL BE SUBJECT TO REJECTION BY THE LANDSCAPE ARCHITECT. BARE ROOT SHALL NOT BE ALLOWED FOR ANY TREE DEFINED AS MAJOR DECIDUOUS, MINOR DECIDUOUS OR EVERGREEN.

CHANGES MAY IMPACT REQUIRED CERTIFICATION
PLANT TYPES (DECIDUOUS TREES, EVERGREEN, ETC.), QUANTITIES, SPACING, LOCATION, AND SPECIES SHOWN ON THE APPROVED LANDSCAPE PLAN ARE BASED ON REQUIREMENTS STATED IN THE LATEST HOWARD COUNTY LANDSCAPE MANUAL. ANY CHANGE IN THESE ITEMS MAY AFFECT THE REQUIRED APPROVAL AND CERTIFICATION OF THE INSTALLED PLANTING. OWNER IS REQUIRED TO ARRANGE AND PAY FOR CERTIFICATION BY LANDSCAPE ARCHITECT.

LANDSCAPE SPECIFICATIONS
LANDSCAPE SPECIFICATION SHALL CONFORM TO LCA LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE WASHINGTON METROPOLITAN AREA INC. USING PLANTING PROCEDURES AND SOIL PREPARATION FOR SHRUBS AND PERENNIAL BEDS. A ONE YEAR WARRANTY PERIOD SHALL BE REQUIRED. MAINTENANCE REQUIRED TO HONOR THE ONE YEAR WARRANTY SHALL BE PERFORMED AS PART OF THIS CONTRACT.

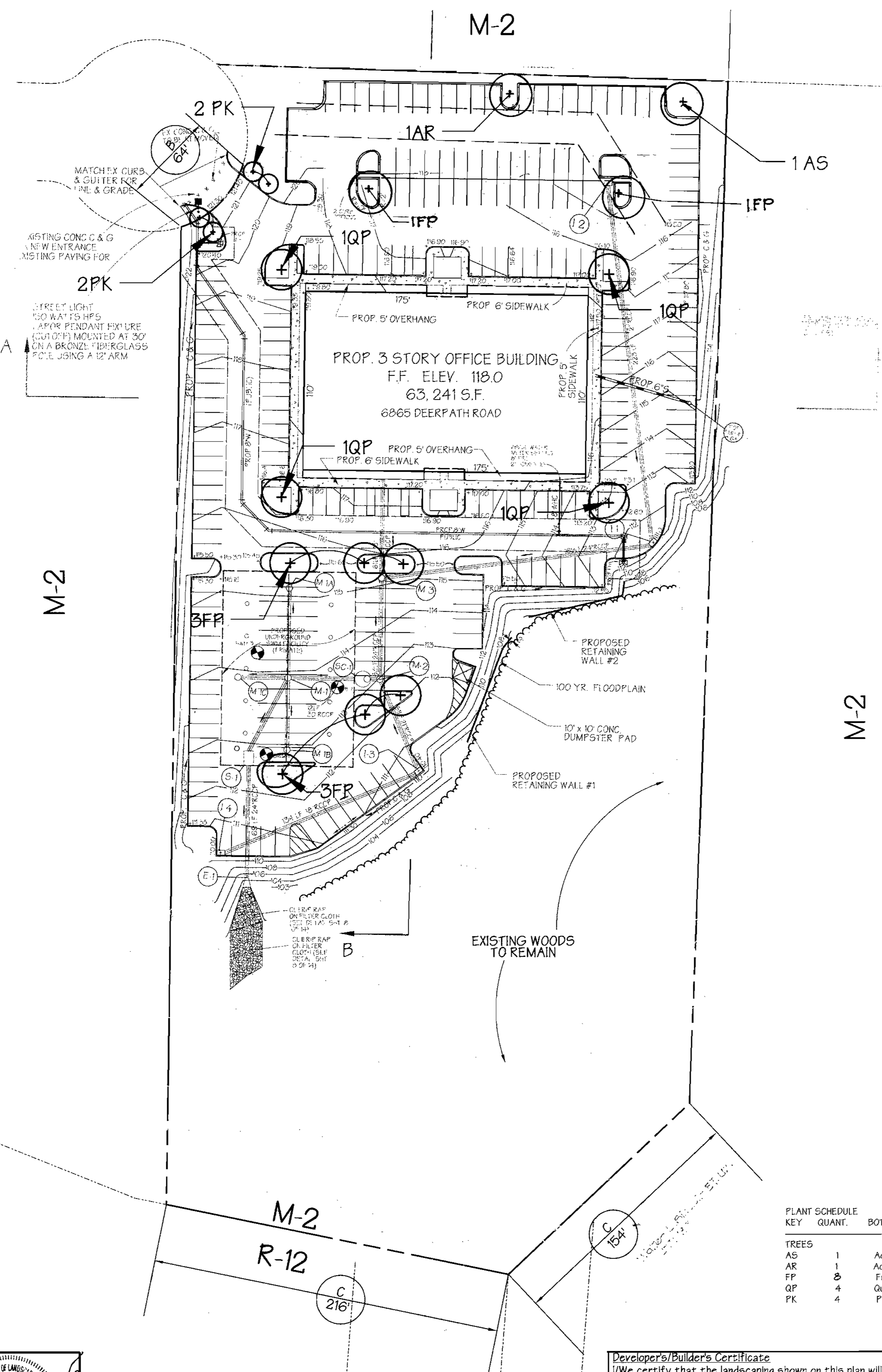
SPECIAL PROVISIONS TO LCA STANDARD SPECIFICATIONS
CONTRACTOR IS ENCOURAGED TO PERFORM SOIL TESTING. TEST RESULTS SHALL BE SUBMITTED 30 DAYS BEFORE PLANTING. FAILURE TO PERFORM TESTING WILL NOT VOID GUARANTEE PROVISIONS.

CONTRACTOR SHALL REVIEW AND TEST SUBSOIL DRAINAGE CHARACTERISTICS 30 DAYS PRIOR TO PLANTING AND NOTIFY OWNER UNLESS PLANTING CONDITIONS.

NO EXCEPTIONS TO THE GUARANTEE PROVISIONS ARE ALLOWED UNLESS AGREED TO IN WRITING PRIOR TO PLANTING.

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE TREES, IN THE AMOUNT OF \$4200.00, IS PART OF THE DEVELOPER'S AGREEMENT.

PREPARED BY:
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120



PLAN
SCALE: 1" = 40'

Developer/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 Certification of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.
Name: *Stephen J. [Signature]* Date: 07/13/00

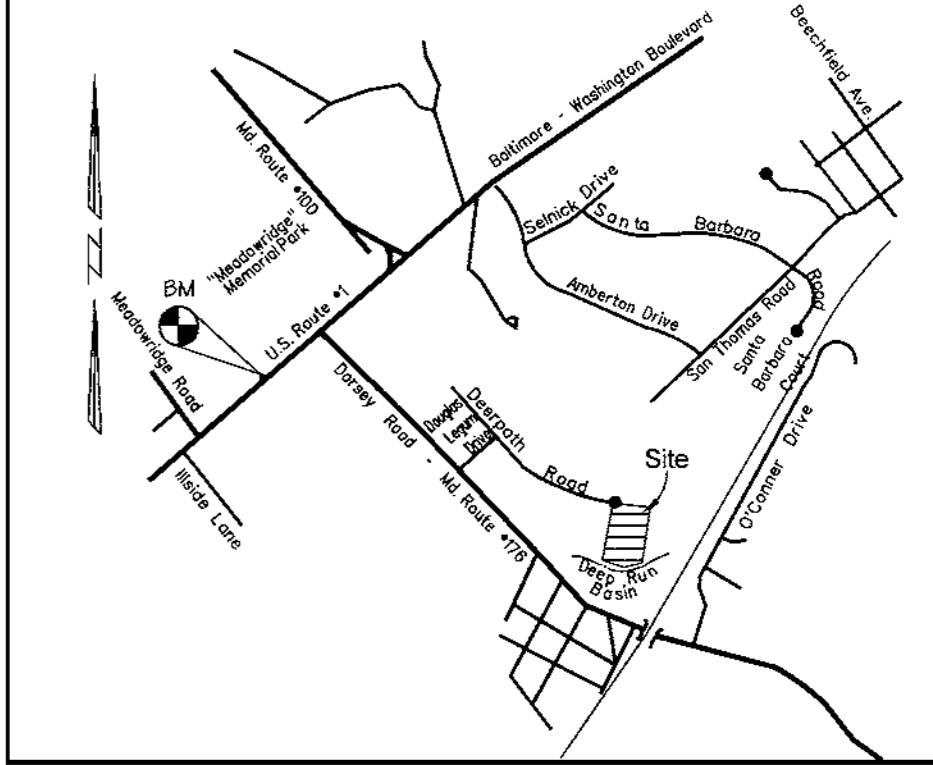
OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: B.P.
DRAWN BY: H.C.
CHECKED BY: B.P.
REVISIONS:
1/15/00
REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 133, Zoning Regulations)

LANDSCAPE PLAN
FOR
DORSEY BUSINESS CENTER
PARCEL H-1
ELECTION DISTRICT: 1
HOWARD COUNTY, MD
SHEET 10 OF 14
SDP-00-13
SCALE: AS SHOWN
FEB. 17, 2000

Legend

Ex. 2' Contours	394
Ex. 10' Contours	395
Prop. 2' Contours	394
Prop. 10' Contours	395
Ex. Curb & Gutter	
Prop. Curb & Gutter	
Bldg. Restriction Line	
Ex. Sanitary	
Ex. Storm Drain	
Ex. Water	
Prop. Sanitary	
Prop. Storm Drain	
Prop. Water	
Concrete Paving	
Light Duty Paving (P-3)	
Wetlands	
Flood Plain	
Ex. Conc. C&G to be Removed	
Proposed Reverse Conc.	
Curb & Gutter	
Ex. Trees	



LOCATION MAP
SCALE: 1" = 2000'

BENCHMARK:

HUB # 371A ELEV 59.6633
DISC SET ON TOP OF CONCRETE (3\"/>

SCHEDULE A PERIMETER LANDSCAPE EDGE

LANDSCAPE TYPE	ROADWAYS	PERIMETER PROPERTIES
Linear Feet of Roadway Frontage	64'	370'
Perimeter		370'
Credit for existing Vegetation (Yes, No)	NO	NO
Credit for Wall, Fence, or Berm (Yes, No)	NO	NO
Number of Plants Required		
Shade Trees	1	0
Evergreen Trees (1:1)	2	
Shrubs (10:1)		
Number of Plants Provided		
Shade Trees	1	
Evergreen Trees (1:1)	0	
Other Trees (2:1 sub.)	4	
Shrubs (10:1 sub.)		

Comments:

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	251
Number of Trees Required	13
Number of Trees Provided	13
Shade Trees	13
Other Trees (2:1 sub.)	
Number of landscaped islands req.	13
Number of landscaped islands provided	13

LANDSCAPING COST ESTIMATE

SHADE TREES - 12 X \$300.00	= \$3600.00
FLOWERING TREES - 4 X \$150.00	= \$600.00
TOTAL	= \$4200.00

NOTE: "LANDSCAPING SURETY IN THE AMOUNT OF \$600.00 WILL BE POSTED AS PART OF THE BUILDER'S GRADING PERMIT."

PLANT SCHEDULE KEY

QUANT.	BOTANICAL NAME / COMMON NAME	SIZE / COND.	SPACING	REMARKS
AS	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	2-2 1/2" cal. / B&B	25' o.c. as shown	full crown
AR	Acer rubrum 'October Glory' / October Glory Red Maple	2-2 1/2" cal. / B&B	25' o.c. as shown	full crown
FP	Fraxinus pennsylvanica 'Patmore' / Patmore Green Ash	2-2 1/2" cal. / B&B	25' o.c. as shown	full crown
QP	Quercus phellos / Willow Oak	2-2 1/2" cal. / B&B	25' o.c. as shown	full crown
PK	Prunus serrulata 'Kwanzan' / Kwanzan Cherry	1 1/2" - 2" cal. / B&B	15' o.c. as shown	matched

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
PLAN NUMBER _____ DATE _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE
DATE _____

APPROVED: Howard County Department of Planning and Zoning

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 8/7/00

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 9/1/00

DIRECTOR
DATE 9/6/00

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6865

SUBDIVISION NAME	SECTION NAME	PARCEL #
DORSEY BUSINESS CENTER	1	H

PLAT #	BLOCK #	ZONE	ELECT. DIST.	CENSUS TRACT
14391	6	B-01	1	6069.01

WATER CODE B-01 SEWER CODE 22220000

FILENAME: 0779LANDSCAPEPLAN.S01
PR: 6179

Planting Schedule

Afforestation Area (0.3 acres)

Qty.	Species	Size	Spacing
25	Acer rubrum - Red maple	2-3 whip	**
25	Fraxinus pennsylvanica - Green ash	2-3' whip	**
15	Platanus occidentalis - Sycamore	2-3' whip	**
15	Quercus palustris - Pin oak	2-3' whip	**
15	Cornus amomum - Silky dogwood	2-3' b.t.	**
10	Viburnum dentatum - Arrowwood	2-3'b.t.	**

Key: ** Plantings to be spaced on 11 foot centers, no shelters required - plantings should be installed in rows to facilitate future maintenance. Where possible rows should be made along contour.

b.t. - branched transplant

Planting Notes:

- Multiflora rose control must be performed as part of this planting plan.
- Bareroot plant material may be used to offset the cost of multiflora rose removal and maintenance. If bareroot material is used it must be planted in March-April and an anti-desiccant gel should be utilized to protect root systems. Container grown stock may be used.
- Plants should be flagged to aid on location during maintenance. Plantings should also be planted in grid pattern to facilitate maintenance and removal of invasive and exotic species.

Multiflora Rose Control Note

Multiflora rose is prevalent in certain areas to be afforested. Prior to planting all multiflora rose shall be removed. Removal of the rose may be performed with mowing and herbicide treatments. Physical removal of all top growth following by a periodic herbicide treatment of stump sprouts is recommended. Native tree and shrub species occurring within the rose thickets should be retained wherever possible. Herbicides treatments shall occur on 2 month intervals during the first growing season and once each in the spring and fall for subsequent years. Herbicide used shall be made specifically to address woody plant material and shall be applied as per manufacturer's specifications. Care should be taken not to spray planted trees or naturally occurring native tree/shrub seedlings. It is recommended that initiation of rose removal begin at least six months prior to planting.

Planting/Soil Specifications

- Planting of nursery stock shall take place between March 15th and April 30th. Container stock may be planted September 1-October 30.
- A 2" (12) inch layer of topsoil shall be spread over all afforestation areas impacted by site grading to ensure a suitable planting area. Disturbed areas shall be seeded and stabilized as per general construction plan for project. Planting areas not impacted by site grading shall have no additional topsoil applied.
- All bareroot planting stock shall have their root systems dipped into an anti-desiccant gel prior to planting.
- Plants shall be installed so that the top of root mass is level with the top of existing grade. Backfill in the planting pits shall consist of 3 parts existing soil to 1 part pine fines or equivalent. Fertilizer shall consist of Agriform 23-8-2, or equivalent, applied as per manufacturer's specifications.
- A two (2) inch layer of hardwood mulch shall be placed over the root area of all plantings.
- Plant material shall be transported to the site in a tarped or covered truck. Plants shall be kept moist prior to planting.
- All non-organic debris associated with the planting operation shall be removed from the site by the contractor.

Sequence of Construction

- Plants shall be installed as per Plant Schedule and the Planting/Soil Specifications for the project.
- Upon completion of the planting, signage shall be installed as per the Forest Retention Area Protection Devices shown on Sheet 2 of the Forest Conservation Plan.
- Plantings shall be maintained and guaranteed in accordance with the Maintenance and Guarantees requirements for project.

Maintenance of Plantings

- Maintenance of plantings shall last for a period of 24 months.
- All plant material shall be watered twice a month during the 1st growing season. Watering may be more or less frequent depending on weather conditions. During second growing season, once a month during May-September, if needed.
- Invasive exotic and noxious weeds will be removed from reforestation areas. Old field successional species will be retained.
- Plants will be examined a minimum two times during the growing season for serious plant pests and diseases. Serious problems will be treated with the appropriate agent.
- Dead branches will be pruned from plantings.

Guarantee Requirements

- After one growing season, plant material shall be maintained at 90% survival threshold. A 75 percent survival rate of reforestation plantings will be required at the end of the 24 month maintenance period. All plant material below the 75 percent threshold will be replaced at the beginning of the next growing season.
- The contractor will not be liable for plant loss due to theft or vandalism.

Surety for Reforestation

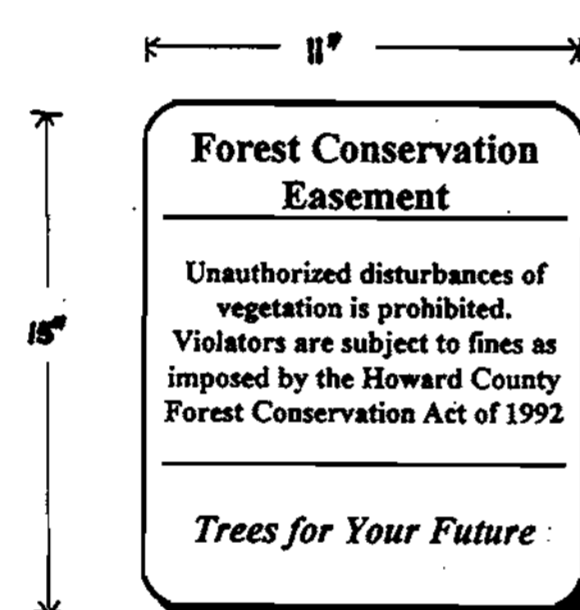
- The developer shall post a surety (bond, letter of credit) to ensure that reforestation plantings are completed. Upon acceptance of the plantings by the County, the bond shall be released.

FCEP NOTES

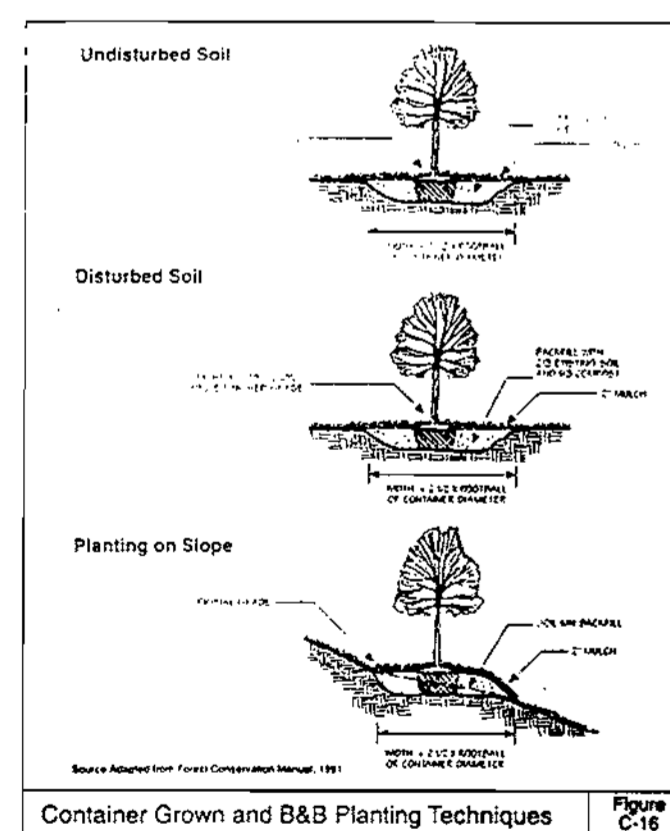
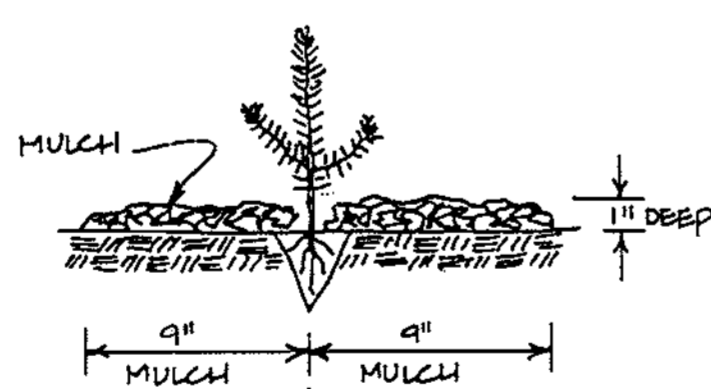
- Any Forest Conservation Easement (FCE) area shown hereon is subject to protective covenants which may be found in the Land Records of Howard County which restrict the disturbance and use of these areas.
- Forested areas occurring outside of the FCE shall not be considered part of the FCE and shall not be subject to protective land covenants.
- Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the FCE boundary, whichever is greater.
- There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Easement, except as permitted by Howard County DPZ.
- No stockpiles, parking areas, equipment cleaning areas, 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 FCE boundaries which occur within 15 feet of the proposed limits of disturbance.
- Permanent signage shall be placed 50-100' apart along the boundaries of all areas included in Forest Conservation Easements.
- THE REFORESTATION OBLIGATION OF 1.36 ACRES WAS MET BY A COMBINATION OF 0.235 ACRES OF ON-SITE PLANTING (F-00-160 RECORDED ON 8/18/00, PLAT #14281), 0.2 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK (SDP-00-15 RECORDED ON 8/22/00, PLAT #14282 TO 14283) AND 0.2 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK (SDP-00-15 RECORDED ON 8/15/01, PLAT #14281 TO 14284).

FOREST DATA	
Gross Area:	5.3 Acres
Net Tract Area (NTA):	3.2
Existing Forest (NTA):	2.1
Reforestation Threshold:	0.48
Forest to be Cleared (NTA):	2.1
Forest to be Retained in FCE:	0.0
Reforestation Required:	1.36
Onsite Reforestation Proposed:	0.235
Outstanding Reforestation Obligation:	1.1
OUTSTANDING REFORESTATION OBLIGATION MET THROUGH 1.1 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK.	

Permanent Protective Signage



Seeding and Whip Planting Specification



Container Grown and B&B Planting Techniques Figure C16

Sheet 2 of 2

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
 PLAN NUMBER _____ DATE _____

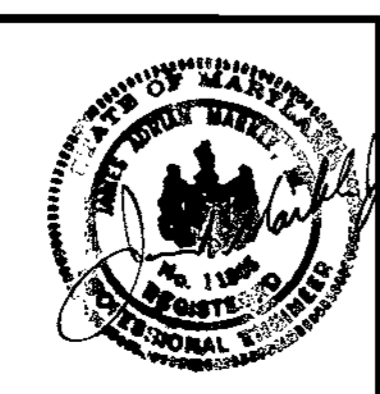
Reviewed for Howard SCD and meets Technical Requirements
 USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE _____

APPROVED: Howard County Department of Planning and Zoning
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/7/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 9/1/00
 DIRECTOR DATE 9/6/00

ADDRESS CHART
 PARCEL NO. _____ STREET ADDRESS _____
 PARCEL # DEERPATH ROAD 6865

SUBDIVISION NAME DORSEY BUSINESS CENTER SECTION NAME 1 PARCEL # H
 PLAT # 1939 BLOCK # 6 ZONE /ZONE MAP 18X 37.43 ELECT. DIST. 1 CENSUS TRACT 6069.01
 WATER CODE B-01 SEWER CODE 2220000

PREPARED BY:
GWS
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 1020 Cromwell Bridge Road
 Towson, Maryland 21286
 (410) 825-8120



Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS
 P.O. Box 5006 Glen Arm, MD 21057 (410) 592-8752

MD DNR Qualified Professional
 USACOE Wetland Deliberator
 Certificate # WDCP010061004482
 John P. Caserio

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.
 DORSEY, SERIES XIV
 2 EAST ROLLING CROSSROADS
 SUITE 251
 CATONSVILLE, MD 21228
 (410) 747-2900

REVISIONS
 2/22/01
 REVISED FOREST DATA

FOREST CONSERVATION PLAN
 FOR
 DORSEY BUSINESS CENTER
 PARCEL H-1
 ELECTION DISTRICT: 1 HOWARD COUNTY, MD
 SHEET 12 OF 14
 SDP-00-13
 SCALE: AS SHOWN
 FEB. 17, 2000

SDP-00-13

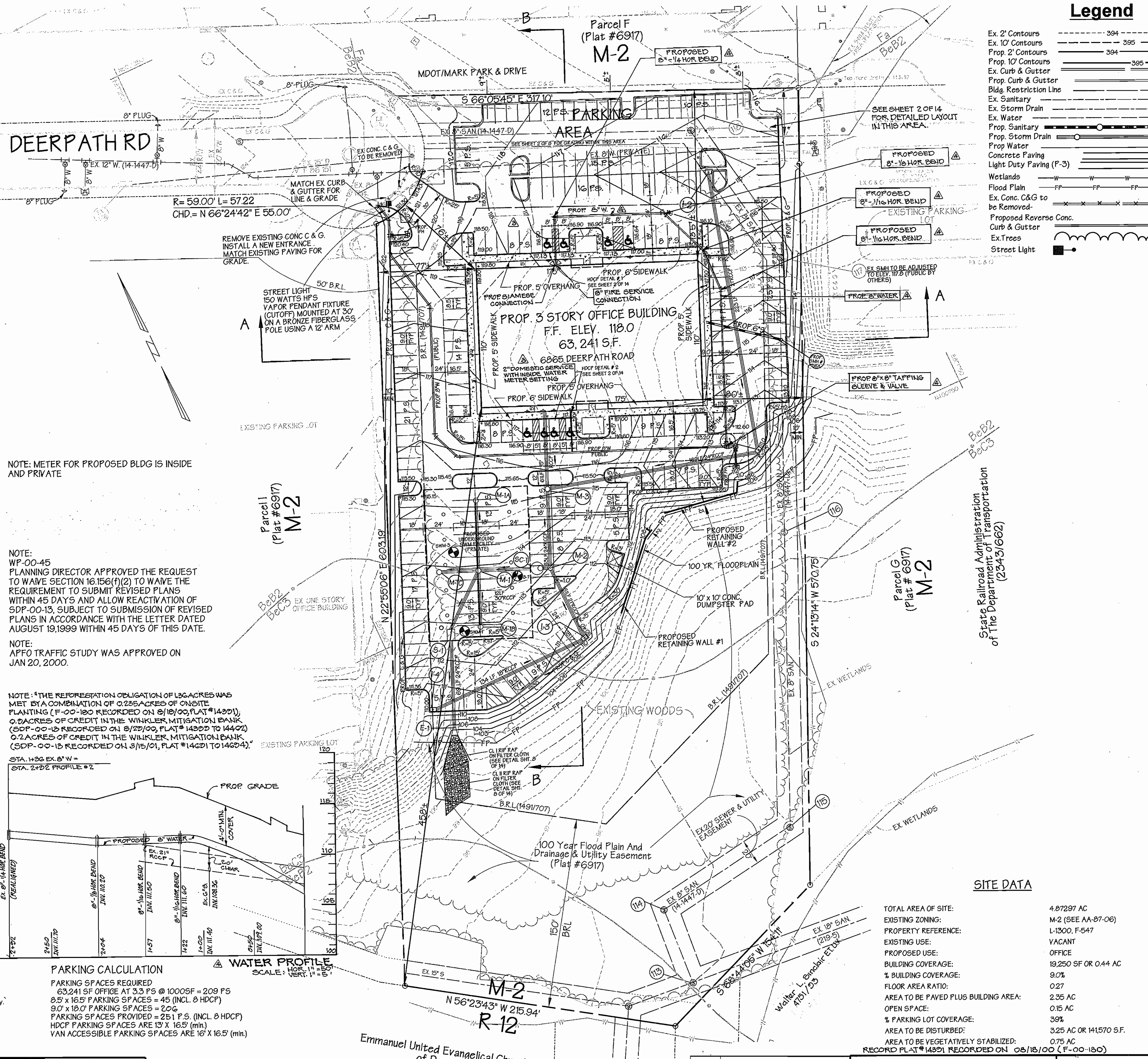
Construction Notes

- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-315-1800 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.
- ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE AND FINISH.
- ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE, UNLESS OTHERWISE NOTED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
- THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING, ETC. ARE TO BE REMOVED PRIOR TO PLACING A BID ON SUCH ITEMS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD-VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7771 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICTS ARE FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT G. W. STEPHENS AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, IF NECESSARY, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE FACILITIES, IF NECESSARY.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES OUTSIDE THE LIMIT OF DISTURBANCE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION. COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NOT BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE LOCATION. ANY DAMAGE TO OFFSITE ROADS, RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CLEAR THE PROJECT SITE OF ALL TREES, PAVING, STRUCTURES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLAN.
- ONLY SUITABLE MATERIAL SHALL BE USED AS FILL AND ALL FILL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN THE SOILS REPORT PREPARED FOR THIS SITE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ALL 2:1 SLOPES SHOWN HEREON, EXCEPTING THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- MAXIMUM SLOPE SHALL BE 2 HORIZONTALLY TO 1 VERTICALLY.
- CONTRACTOR SHALL PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS.
- ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 FOOT OF PROTECTIVE FILL OVER STORM DRAIN PIPES DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL PAVEMENT MARKINGS AND SIGNAGE FOR HANDICAPPED PARKING SPACES INDICATED HEREON IN ACCORDANCE WITH ALL APPLICABLE CODES. ALL PAVEMENT MARKINGS TO BE TRAFFIC WHITE.
- ALL HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE MARYLAND BUILDING CODE FOR THE HANDICAPPED" AND AGED, LATEST EDITION.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES." ALL STREET AND REGULATORY SIGNS SHALL BE INSTALLED PRIOR TO INSTALLATION OF FINISHED PAVING.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING BITUMINOUS PAVING OR SUB-BASE WHICH IS DAMAGED OR REMOVED DURING CONSTRUCTION. ALL EXCAVATED AREAS SHALL BE BACKFILLED AND IN ACCORDANCE WITH THE SOILS REPORT AND/OR AS DIRECTED BY GEOTECHNICAL ENGINEER. ANY AREAS TO BE PAVED WHICH EXHIBIT UNSTABLE SUBGRADE CONDITIONS SHALL BE EXCAVATED TO BEARING SOIL, REFILLED AND COMPACTED.
- ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- PERFORMED ELASTOMERIC COMPRESSION JOINT MATERIAL SHALL BE INSTALLED AT ALL MEETINGS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY PREPARED BY G. W. STEPHENS JR. & ASSOCIATES DATED MARCH 1998.
- OUTDOOR LIGHTING WILL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- 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 NO. 371A WAS USED FOR THIS PROJECT.
- WATER IS PUBLIC.
- SEWER IS PUBLIC.
- EXISTING UTILITIES ARE BASED ON SURVEY PREPARED BY GWS.
- PROPOSED SIDEWALK IS 5" THICK CONCRETE (MK NO. 2) ON 4" CRUSHER RUN BASE.

NOTE: The owner shall provide a separate and independent sewer connection for each tenant or occupant of any building shown on this site development plan who will discharge non-domestic waste to the public sewerage system. If each separate and independent sewer connection shall include a standard manhole and other waste pretreatment devices as required and approved by Howard County. Waste lines on the interior of the building shall be designed, constructed or modified such that non-domestic waste will be discharged to the separate and independent sewer connection. No tenant or occupant of any building shown on this site development plan shall discharge regulated non-domestic waste to the public sewerage system prior to installation of the separate and independent sewer connection and related interior waste lines. The above statement shall apply to all initial and future occupants or tenants.

PREPARED BY:

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120



PARKING CALCULATION

PARKING SPACES REQUIRED
63,241 SF OFFICE AT 3.5 PS @ 1000SF = 209 PS
8.5' x 16.5' PARKING SPACES = 45 (INCL. 8 HDPC)
9.0' x 18.0' PARKING SPACES = 206
PARKING SPACES PROVIDED = 251 P.S. (INCL. 8 HDPC)
HDPC PARKING SPACES ARE 13' X 16.5' (min.)
VAN ACCESSIBLE PARKING SPACES ARE 16' X 16.5' (min.)

WATER PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

NOTE: THE REFORESTATION OBLIGATION OF 1.66 ACRES WAS MET BY A COMBINATION OF 0.225 ACRES OF ON-SITE PLANTINGS (F-00-1800 RECORDED ON 8/18/00, PLAT #14201), 0.2 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK (SDP-00-12 RECORDED ON 8/22/00, PLAT #14202 TO 14402) 0.2 ACRES OF CREDIT IN THE WINKLER MITIGATION BANK (SDP-00-13 RECORDED ON 3/15/01, PLAT #14621 TO 14624).

Emmanuel United Evangelical Church of Dorsey (727/1381)
C.A. Carter, Sr. (776/233)

REVISIONS

DATE	REVISIONS
04/22/08	RELOCATED 2" FIRE SERVICE & ADDED RELOCATED 2" DOMESTIC SERVICE
05/10/00	ADDED 2" FIRE SERVICE S.E. SIDE OF BUILDING, ABANDONED 2" BRANCH

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONVILLE, MD 21228
(410) 747-2900

DESIGNED BY: K.U.
DRAWN BY: H.C.
CHECKED BY: T.H.

REVISIONS
11/05/98 - REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS (Section 133, Zoning Regulations).
11/01/00 - ADDED ADDITIONAL PARKING AREA.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
Shelley L. St... 7/25/00
PLAN NUMBER: _____ DATE: _____

Reviewed for Howard SCD and meets Technical Requirements
Cheryl A. Sumner, Esq. 7/25/00
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE: _____

APPROVED: Howard County Department of Planning and Zoning
Richard Blumel 8/7/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: _____
Richard Blumel 9/1/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: _____

James R. B... 9/6/00
DIRECTOR DATE: _____

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6865

SUBDIVISION NAME	SECTION NAME	PARCEL #
DORSEY BUSINESS CENTER	1	H

PLAT #	BLOCK #	ZONE	TAX MAP	ELECT. DIST.	CENSUS TRACT
14391	6		3743	1	6069.01

WATER CODE: B-01 SEWER CODE: 2220000

SITE PLAN
FOR
DORSEY BUSINESS CENTER
PARCEL #1

ELECTION DISTRICT: 1
HOWARD COUNTY, MD

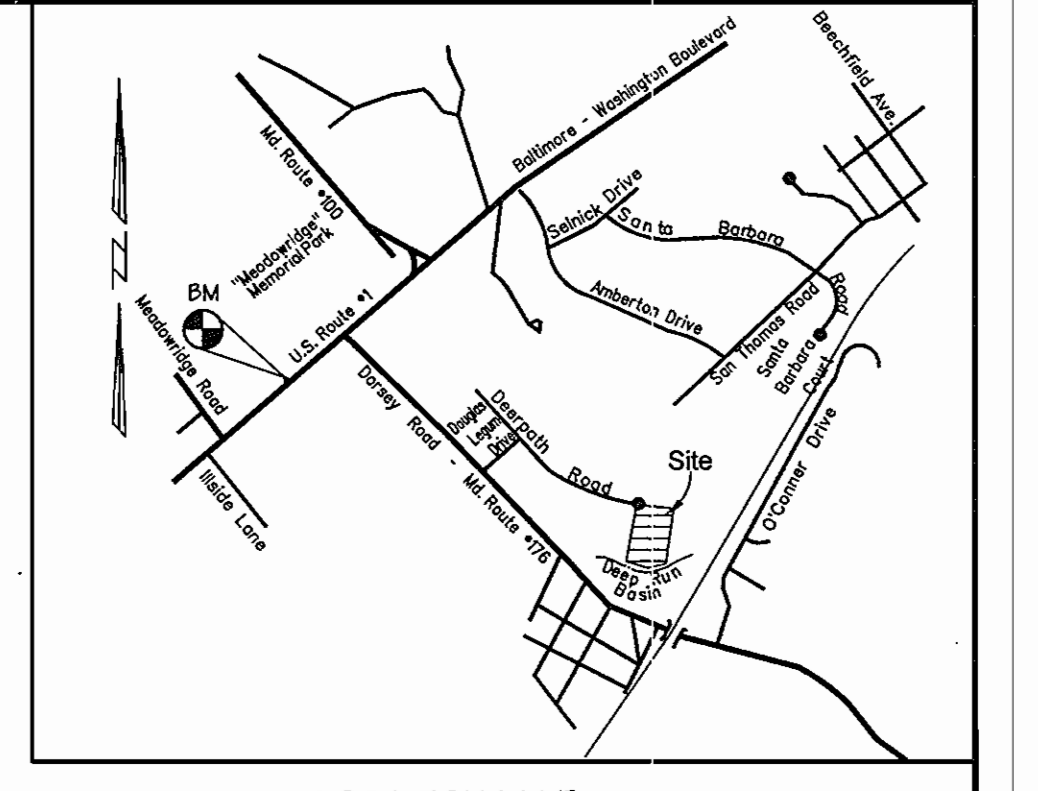
SHEET 1 OF 14

SDP-00-13
SCALE: AS SHOWN
FEBRUARY 17, 2000

PH: 8778

Legend

- Ex. 2' Contours: 394
- Ex. 10' Contours: 395
- Prop. 2' Contours: 394
- Prop. 10' Contours: 395
- Ex. Curb & Gutter
- Prop. Curb & Gutter
- Bldg. Restriction Line
- Ex. Sanitary
- Ex. Storm Drain
- Ex. Water
- Prop. Sanitary
- Prop. Storm Drain
- Prop. Water
- Concrete Paving
- Light Duty Paving (P-3)
- Wetlands
- Flood Plain
- Ex. Conc. C&G to be Removed
- Proposed Reverse Conc.
- Curb & Gutter
- Ex. Trees
- Street Light



LOCATION MAP
SCALE: 1" = 200'

BENCHMARK:
HUB # 371A ELEV 59.6633
DISC SET ON TOP OF CONCRETE (3" DEEP) COLUMN, 247' NORTH EAST FROM MAIN ENTRANCE OF CEMETERY ON NORTH SIDE OF US ROUTE 1, 15' FROM R/W LINE.

SHEET INDEX

SHEET	DESCRIPTION
SHEET 1 OF 14	SITE PLAN
SHEET 2 OF 14	SITE & HANDICAP DETAILS
SHEET 3 OF 14	STORM DRAIN & SEWER PROFILES
SHEET 4 OF 14	STORMCEPTOR PLAN
SHEET 5 OF 14	SEDIMENT CONTROL PLAN
SHEET 6 OF 14	SEDIMENT CONTROL NOTES AND DETAILS
SHEET 7 OF 14	STORMWATER MANAGEMENT DRAINAGE AREA MAPS
SHEET 8 OF 14	STORMWATER MANAGEMENT PLANS & PROFILES
SHEET 9 OF 14	STORMWATER MANAGEMENT NOTES AND DETAILS
SHEET 10 OF 14	LANDSCAPE PLAN
SHEET 11 OF 14	FOREST CONSERVATION PLAN
SHEET 12 OF 14	FOREST CONSERVATION PLAN
SHEET 13 OF 14	RETAINING WALL PROFILES & DETAILS
SHEET 14 OF 14	RETAINING WALL NOTES & DETAILS

SITE DATA

TOTAL AREA OF SITE: 4.87291 AC
M-2 (SEE AA-87-06)
L-1300, F-547

PROPERTY REFERENCE:
VACANT

EXISTING USE:
VACANT

PROPOSED USE:
OFFICE

BUILDING COVERAGE:
19,250 SF OR 0.44 AC

% BUILDING COVERAGE:
90%

FLOOR AREA RATIO:
0.27

AREA TO BE PAVED PLUS BUILDING AREA:
2.35 AC

OPEN SPACE:
0.15 AC

% PARKING LOT COVERAGE:
39%

AREA TO BE DISTURBED:
3.25 AC OR 141,570 S.F.

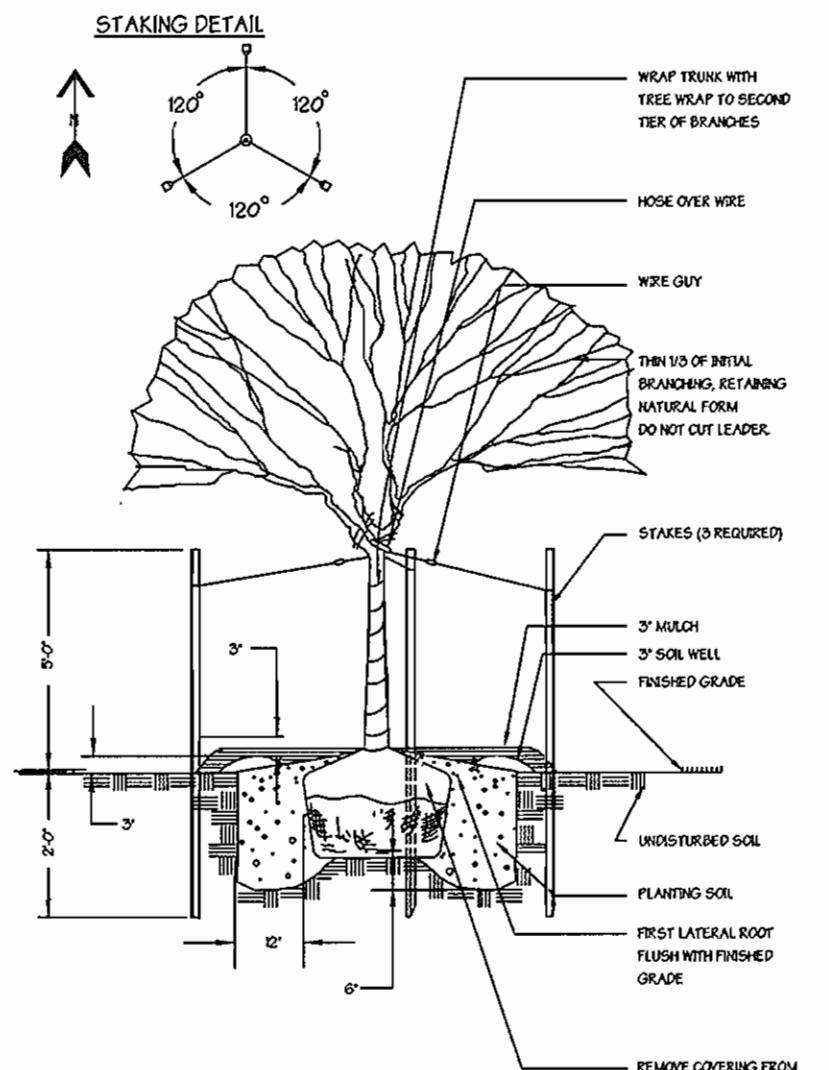
AREA TO BE VEGETATIVELY STABILIZED:
0.75 AC

RECORD PLAT #14391 RECORDED ON 08/18/00 (F-00-180)

NOTE:
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$4,200.00.

NOTE:
THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.



Tree Planting Detail
NOT TO SCALE

PLANTING NOTES
PLANT LOCATIONS SHALL BE FIELD ADJUSTED TO AVOID UTILITIES. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO START OF WORK. ALL TREES AND SHRUBS SHALL BE MULCHED TO A MINIMUM OF 18\"/>

PLANT STANDARDS
ALL NURSERY STOCK SHALL BE TOP QUALITY AND IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., "AMERICAN STANDARDS FOR NURSERY STOCK", LATEST EDITION. INFERIOR NURSERY STOCK WILL BE SUBJECT TO REJECTION BY THE LANDSCAPE ARCHITECT. BARE-ROOT SHALL NOT BE ALLOWED FOR ANY TREE DEFINED AS MAJOR DECIDUOUS, MINOR DECIDUOUS OR EVERGREEN.

CHANGES MAY IMPACT REQUIRED CERTIFICATION
PLANT TYPES (DECIDUOUS TREES, EVERGREEN, ETC.), QUANTITIES, SPACING, LOCATION, AND SPECIES SHOWN ON THE APPROVED LANDSCAPE PLAN ARE BASED ON REQUIREMENTS STATED IN THE LATEST HOWARD COUNTY LANDSCAPE MANUAL. ANY CHANGE IN THESE ITEMS MAY AFFECT THE REQUIRED APPROVAL AND CERTIFICATION OF THE INSTALLED PLANTING. OWNER IS REQUIRED TO ARRANGE AND PAY FOR CERTIFICATION BY LANDSCAPE ARCHITECT.

LANDSCAPE SPECIFICATIONS
LANDSCAPE SPECIFICATION SHALL CONFORM TO LCA LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREA, INCLUDING PLANTING PROCEDURES AND SOIL PREPARATION FOR SHRUBS AND PERENNIAL BEDS. A ONE-YEAR WARRANTY PERIOD SHALL BE REQUIRED. MAINTENANCE REQUIRED TO HONOR THE ONE YEAR WARRANTY SHALL BE PERFORMED AS PART OF THIS CONTRACT.

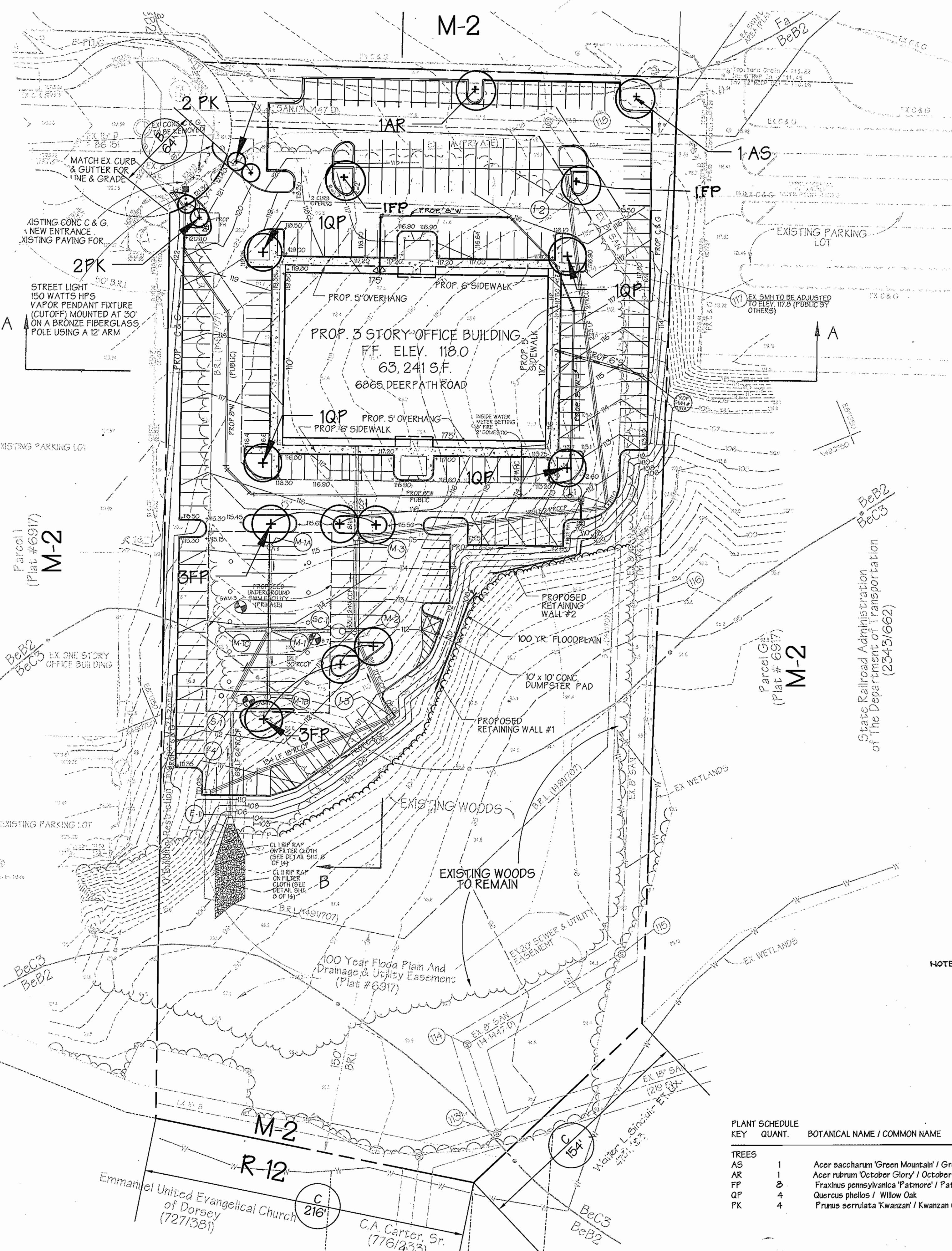
SPECIAL PROVISIONS TO LCA STANDARD SPECIFICATIONS
CONTRACTOR IS ENCOURAGED TO PERFORM SOIL TESTING. TEST RESULTS SHALL BE SUBMITTED 30 DAYS BEFORE PLANTING. FAILURE TO PERFORM TESTING WILL NOT VOID GUARANTEE PROVISIONS.

CONTRACTOR SHALL REVIEW AND TEST SUBSOIL DRAINAGE CHARACTERISTICS 30 DAYS PRIOR TO PLANTING AND NOTIFY OWNER UNACCEPTABLE CONDITIONS.

NO EXCEPTIONS TO THE GUARANTEE PROVISIONS ARE ALLOWED UNLESS AGREED TO IN WRITING PRIOR TO PLANTING.

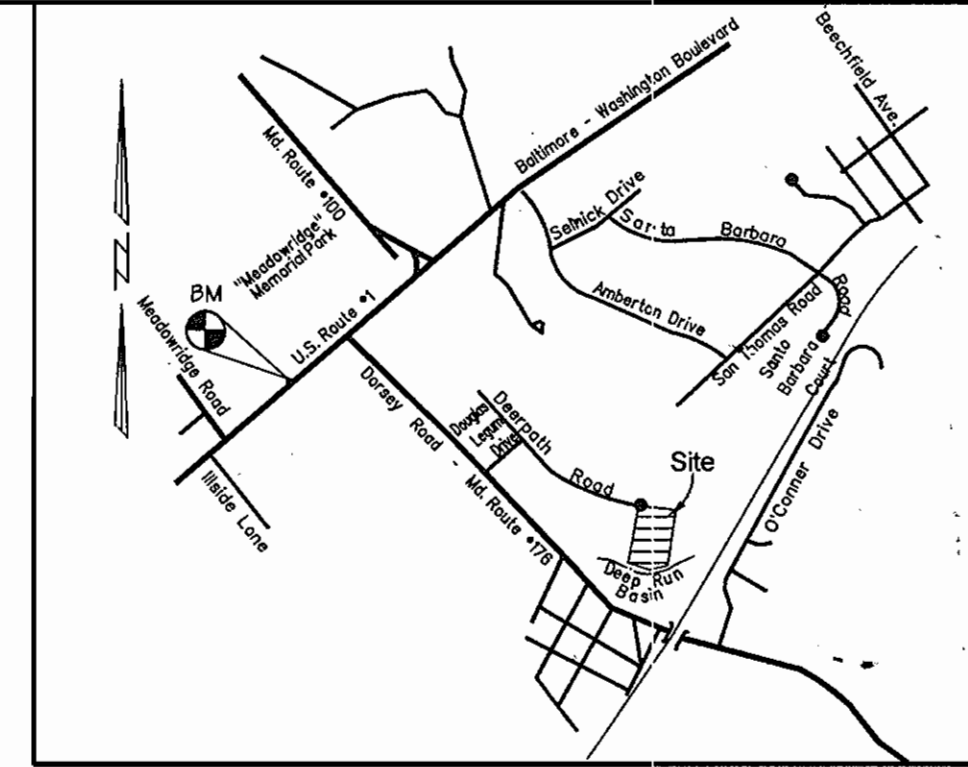
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 14 LANDSCAPE TREES, IN THE AMOUNT OF \$4200.00, IS PART OF THE DEVELOPER'S AGREEMENT.

PREPARED BY:
GWS
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
1020 Cromwell Bridge Road
Towson, Maryland 21286
(410) 825-8120



Legend

- Ex. 2' Contours ——— 394
- Ex. 10' Contours ——— 395
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- Ex. Curb & Gutter ———
- Prop. Curb & Gutter ———
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- Wetlands ———
- Flood Plain ———
- Ex. Conc. C&G to be Removed ———
- Proposed Reverse Conc. ———
- Curb & Gutter ———
- Ex. Trees ———



LOCATION MAP
SCALE: 1" = 2000'

BENCHMARK:

HUB # 371A ELEV. 59.6633
DISC SET ON TOP OF CONCRETE (3\"/>

SCHEDULE A PERIMETER LANDSCAPE EDGE

	ROADWAYS	PERIMETER PROPERTIES
Landscape Type	B	C
Linear Feet of Roadway Frontage Perimeter	64'	370'
Credit for existing Vegetation (Yes, No Linear Feet)	NO	370'
Credit for Wall, Fence, or Berm (Yes, No Linear Feet)	NO	NO
Number of Plants Required		
Shade Trees	1	0
Evergreen Trees (1:1)	2	
Shrubs (2:1)		
Number of Plants Provided		
Shade Trees	1	
Evergreen Trees (1:1)	0	
Other Trees (2:1 sub.)	4	
Shrubs (10:1 sub.)		
Comments:		

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	251
Number of Trees Required	13
Number of Trees Provided	13
Shade Trees	13
Other Trees (2:1 sub.)	
Number of landscaped islands req.	13
Number of landscaped islands provided	13

LANDSCAPING COST ESTIMATE
SHADE TREES - 12 X \$300.00 = \$3600.00
FLOWERING TREES - 4 X \$150.00 = \$600.00
TOTAL = \$4200.00

NOTE: LANDSCAPING SURETY IN THE AMOUNT OF \$200.00 WILL BE POSTED AS PART OF THE BUILDER'S GRADING PERMIT.

PLANT SCHEDULE

KEY	QUANT.	BOTANICAL NAME / COMMON NAME	SIZE / COND.	SPACING	REMARKS
TREES					
AS	1	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	2-2 1/2' cal / B&B	25' o.c. as shown	full crown
AR	1	Acer rubrum 'October Glory' / October Glory Red Maple	2-2 1/2' cal / B&B	25' o.c. as shown	full crown
FP	3	Fraxinus pennsylvanica 'Patmore' / Patmore Green Ash	2-2 1/2' cal / B&B	25' o.c. as shown	full crown
Q	2	Quercus phellos / Willow Oak	2-2 1/2' cal / B&B	25' o.c. as shown	full crown
PK	4	Prunus serrulata 'Kwanzan' / Kwanzan Cherry	1 1/2' 2' cal / B&B	15' o.c. as shown	matched

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 Certification of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.
Stephen J. Walker Jr. 07/13/00
Name: _____ Date: _____

OWNER/DEVELOPER
WHALEN PROPERTIES, L.L.C.,
DORSEY, SERIES XIV
2 EAST ROLLING CROSSROADS
SUITE 251
CATONSVILLE, MD 21228
(410) 747-2900

DESIGNED BY: B.P.
DRAWN BY: H.C.
CHECKED BY: B.P.
REVISIONS:
8/10/00 APPROVED BY THE DISTRICT ENGINEER, STATE OF MARYLAND
11/15/99 REVISED PARKING LAYOUT TO COMPLY WITH PARKING REGS. (Section 153, Zoning Regulations)

LANDSCAPE PLAN
FOR
DORSEY BUSINESS CENTER
PARCEL H-1

ELECTION DISTRICT: 1 HOWARD COUNTY, MD
SHEET 10 OF 14
SDP-00-13
SCALE: AS SHOWN
FEB. 17, 2000
FN 8779

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
PLAN NUMBER _____ DATE _____

Reviewed for Howard SCD and meets Technical Requirements

USDA-NATURAL RESOURCES CONSERVATION SERVICE: _____ DATE _____

APPROVED: Howard County Department of Planning and Zoning
Chad Dammann 8/7/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: _____
Richard Blawie 2/1/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: _____
James S. Rantz 2/6/00
DIRECTOR DATE: _____

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
PARCEL #	DEERPATH ROAD 6865

SUBDIVISION NAME SECTION NAME PARCEL #
DORSEY BUSINESS CENTER 1 H

PLAT # 14391 BLOCK # 6 ZONE / ZONE MAP 37.45 ELECT. DIST. 6069.01 CENSUS TRACT
WATER CODE B-01 SEWER CODE 2220000