

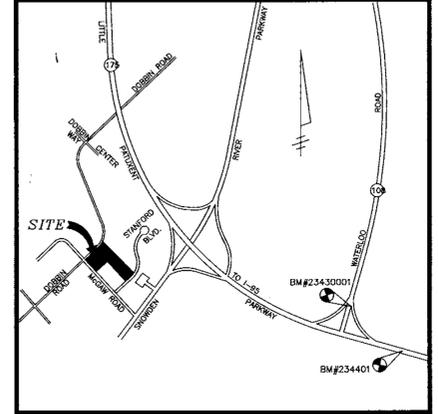
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 MISS UTILITY 1-800-257-7777
 C & P TELEPHONE COMPANY: 725-9976
 HOWARD COUNTY BUREAU OF UTILITIES: 313-2366
 AT&T CABLE LOCATION DIVISION: 393-3553
 B.G.&E. CO. CONTRACTOR SERVICES: 850-4620
 B.G.&E. CO. UNDERGROUND DAMAGE CONTROL: 787-4620
 STATE HIGHWAY ADMINISTRATION: 531-5533
- ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3,500 P.S.I.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11-4 VOLUME I OF HOWARD COUNTY DESIGN MANUAL.
- A RETENTION STORMWATER MANAGEMENT FACILITY IS PROVIDED FOR THIS DEVELOPMENT UNDER S.D.P.#87-193. 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.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- EACH PROPERTY OWNER FOR PARCELS A-31 & A-32 IS RESPONSIBLE FOR MAINTENANCE OF ALL BUILDINGS AND/OR STRUCTURES UP TO THEIR RESPECTFUL PROPERTY LINE.
- FOR PAVING SECTION DETAIL (SEE SHEET 4 OF 17).
- ALL CURB AND GUTTER TO BE HOWARD COUNTY STANDARD CONCRETE (SEE DETAIL SHEET 4 OF 17). LIMITS AS SHOWN ON PLAN.
- A WATER METER SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION ON THE INCOMING WATER LINE TO THE BUILDING.
- CONTRACTOR RESPONSIBLE TO CONSTRUCT ALL HANDICAP PARKING AND HANDICAP ACCESS ROUTES IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- WHERE DRAINAGE FLOWS AWAY FROM CURB, CONTRACTOR TO REVERSE THE GUTTER PAN (SEE DETAIL SHEET 4 OF 17).
- EXISTING TOPOGRAPHY IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY BARAKOS-LANDINO SURVEY DATED NOVEMBER 1998.
- THIS PROJECT IS SERVED BY PUBLIC WATER (CONTRACT #24-1667-D) AND PUBLIC SEWER (CONTRACT #483-D-W&S). THE CONTRACTOR WILL REMOVE EX. CURB & GUTTER AS NOTED ON THE SITE PLAN. THE CONTRACTOR WILL LEAVE A CLEAN EDGE OF EX. PAVING FOR TIE-IN OF PROPOSED PAVING.
- THE CONTRACTOR WILL CONSTRUCT ALL CONC. CURB & GUTTER NOTED ON THE SITE PLAN TO BE FULLY DEPRESSED SO THAT THERE IS NOT A LIP.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE 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 MEET HOWARD COUNTY STANDARDS FOR THE PROPOSED P-2 PAVING (SEE DETAIL SHEET 4 OF 17).
- THE PROPERTY OWNER FOR PARCELS A-32 IS RESPONSIBLE FOR MAINTENANCE OF STORMCEPTOR LOCATED WITHIN THEIR RESPECTFUL PARCEL.
- 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.
- 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 OPPOSITE ROADS, RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY BL COMPANIES OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM BL COMPANIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 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 3:1 SLOPE SHOWN HEREON, EXCEPTING THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY GEOTECHNICAL ENGINEER.
- MAXIMUM SLOPE SHALL BE 3 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 MAINTAIN TRAFFIC ON ADJACENT ROAD AT ALL TIMES 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.
- 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.
- THE CONTRACTOR SHALL PLACE PROPOSED SURFACE COURSE OVERLAY 5 FEET BEYOND LIMITS OF REPLACEMENT PAVING, UNLESS DIRECTED OTHERWISE BY THE ENGINEER IN THE FIELD. ALL OVERLAYS SHALL HAVE SMOOTH STRAIGHT EDGES. STRIP AND RESURFACE EXISTING PAVING AS NEEDED TO PROVIDE SMOOTH TRANSITION.
- ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- SIDEWALK SHALL CONFORM TO DETAIL R-505 OF THE AFOREMENTIONED HOWARD COUNTY STANDARDS. SLOPE, WIDTH, AND LOCATION AS SHOWN HEREON. SIDEWALK SHALL BE PLACED ON A 4" CRUSHEDSTONE BASE AND SHALL BE REINFORCED WITH WIRE MESH.
- PREFORMED ELASTOMERIC COMPRESSION JOINT MATERIAL SHALL BE INSTALLED AT ALL MEETINGS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.
- ALL EXTERIOR LIGHTING SHALL CONFORM TO SECTION 134 OF THE ZONING REGULATIONS.
- THE PUBLIC WATER & SEWER WILL BE CONSTRUCTED UNDER SEPERATE CONTRACT # 24-3761-D.

SITE DEVELOPMENT PLANS FOR COLUMBIA CORPORATE PARK PARCELS A-31 & A-32

BM#234401 ELEV. 309.49'
STANDARD CONCRETE MONUMENT SET FLUSH @ SURFACE
N-491333.018 E-858206.723

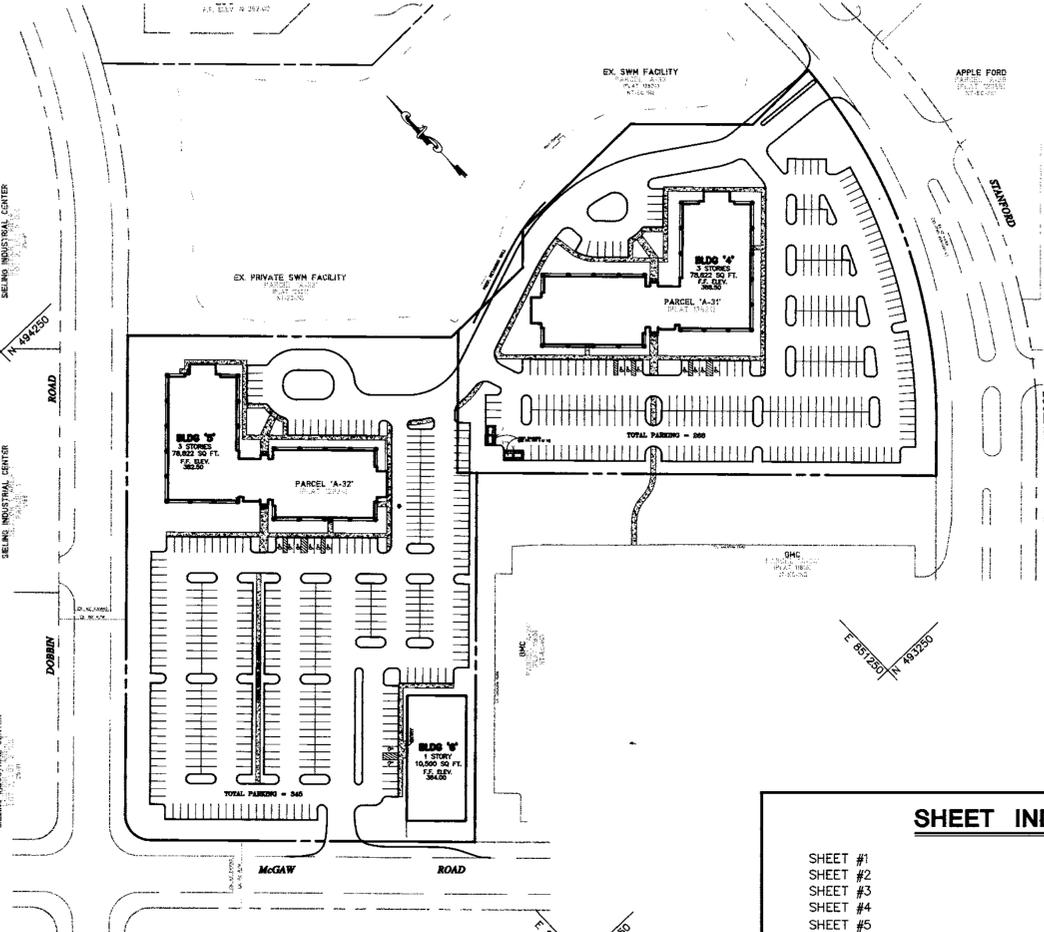
BM#23430001 ELEV. 288.24'
3/4" REBAR SET 0.3" BELOW THE SURFACE
N-492140.801 E-857226.671



PARKING TABULATIONS

REQUIRED	PROVIDED
PARCEL A-31 OFFICE- 78,822 SQ. FT. @ 2 P.S./1000 SF.= 158 SPACES PARCEL A-32 OFFICE- 89,322 SQ. FT. @ 2 P.S./1000 SF.= 179 SPACES TOTAL = 337 SPACES	PARCEL A-31 PARKING= 268 SPACES(INCLUDES 7 HANDICAP SPACES) PARCEL A-32 PARKING= 345 SPACES(INCLUDES 8 HANDICAP SPACES) TOTAL PARKING= 613 SPACES(INCLUDES 15 HANDICAP SPACES)

VICINITY MAP
SCALE: 1"=2000'



LOCATION MAP
SCALE: 1"=100'

- THE CONTRACTOR SHALL OPEN THE RELEASE VALVE ON THE EXISTING RELEASE STRUCTURE TO LOWER THE POND WATER ELEVATION. (SEE SEQUENCE OF OPERATION)
- WP 99-125 - A WAIVER TO SDP FOR MASS GRADING ONLY WAS APPROVED AS PER SECTION 16.155(a)(1) OF THE HOWARD COUNTY SUBDIVISION REGULATION ON JUNE 16, 1999.
- THE FOLLOWING STREET LIGHTS, 250-WATT HPS VAPOR PENDANT FIXTURE (CUT OFF) MOUNTED 30" ON A BRONZE FIBERGLASS POLE USING A 12" ARM AT PROPERTY ACCESS LOCATIONS:

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: June 3, 1999

SITE DATA

AREA OF PARCELS:	A-31	4.694 AC.±
	A-32	5.644 AC.±
TOTAL AREA OF SITE		10.338 AC.±
EXISTING ZONING		NT EC-IND
PROPERTY REFERENCE		3275/442
EXISTING USE		VACANT
PROPOSED USE		OFFICE
(USES PERMITTED SHALL BE IN ACCORDANCE WITH FDP-117-1)		
BUILDING COVERAGE:	A-31 (BLDG #4)	25,193 sq. ft. or 0.58 AC.±
	A-32 (BLDG #5)	25,193 sq. ft. or 0.58 AC.±
	(BLDG #6)	10,500 sq. ft. or 0.24 AC.±
% BUILDING COVERAGE:	A-31 (BLDG #4)	12%
	A-32 (BLDG #5 & #6)	15%
FLOOR AREA RATIO (FAR)	A-31 (BLDG #4)	-78,822 SQ. FT. OR 1.81 AC.±
	A-32 (BLDG #5 & #6)	-89,322 SQ. FT. OR 2.05 AC.±
AREA TO BE PAVED PLUS BUILDINGS:	A-31	145,055 sq. ft. or 3.33 AC.±
	A-32	169,448 sq. ft. or 3.89 AC.±
TOTAL AREA OF PARKING LOT:	A-31	111,639 sq. ft. or 2.56 AC.±
	A-32	124,327 sq. ft. or 2.85 AC.±
% PARKING LOT COVERAGE:	A-31	54.53%
	A-32	50.50%
AREA OF DISTURBANCE		499,160 sq. ft. or 11.460 AC.±
AREA TO BE VEGETATIVELY STABILIZED		189,050 sq. ft. or 4.34 AC.±
DPZ REFERENCES:		S-87-24, P-87-93, F-96-28

SHEET INDEX

SHEET #1	COVER SHEET
SHEET #2	SITE LAYOUT PLAN 1
SHEET #3	SITE LAYOUT PLAN 2
SHEET #4	SITE DETAILS
SHEET #5	SECTIONS 1
SHEET #6	SECTIONS 2
SHEET #7	PROFILES
SHEET #8	DRAINAGE AREA MAP
SHEET #9	STORM DRAIN PROFILES 1
SHEET #10	STORM DRAIN PROFILES 2
SHEET #11	SEDIMENT CONTROL PLAN 1
SHEET #12	SEDIMENT CONTROL PLAN 2
SHEET #13	SEDIMENT CONTROL NOTES
SHEET #14	SEDIMENT CONTROL DETAILS
SHEET #15	LANDSCAPE PLAN 1
SHEET #16	LANDSCAPE DETAILS
SHEET #17	CONSTRUCTION DETAILS

ADDRESS CHART					
PARCEL NO.	STREET ADDRESS				
A-31	BUILDING #4	8825 STANFORD BOULEVARD			
A-32	BUILDING #5	8890 MCGAW ROAD			
A-32	BUILDING #6	8880 MCGAW ROAD			
SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBER		
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32		
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#64754	24	N.T.	36	6	6067-03
13721		EC-IND			
WATER CODE E06		SEWER CODE 5333000			

COVER SHEET
FOR
**COLUMBIA
CORPORATE PARK**
PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 6TH ELECTION DISTRICT	PARCEL A-31 & A-32 HOWARD COUNTY, MARYLAND
DESIGN BY: R.A.M.	PROJECT # 98B055
DRAWN BY: J.E.T./D.T.A.	DRAWING: CVb05501.DWG
CHECKED BY: R.A.M.	XREFS: XRB05510 XRB05502
APPRD. BY: R.A.L.	
DATE: 06-04-99	
SCALE: AS SHOWN	1 SHEET OF 17



OWNER / DEVELOPER

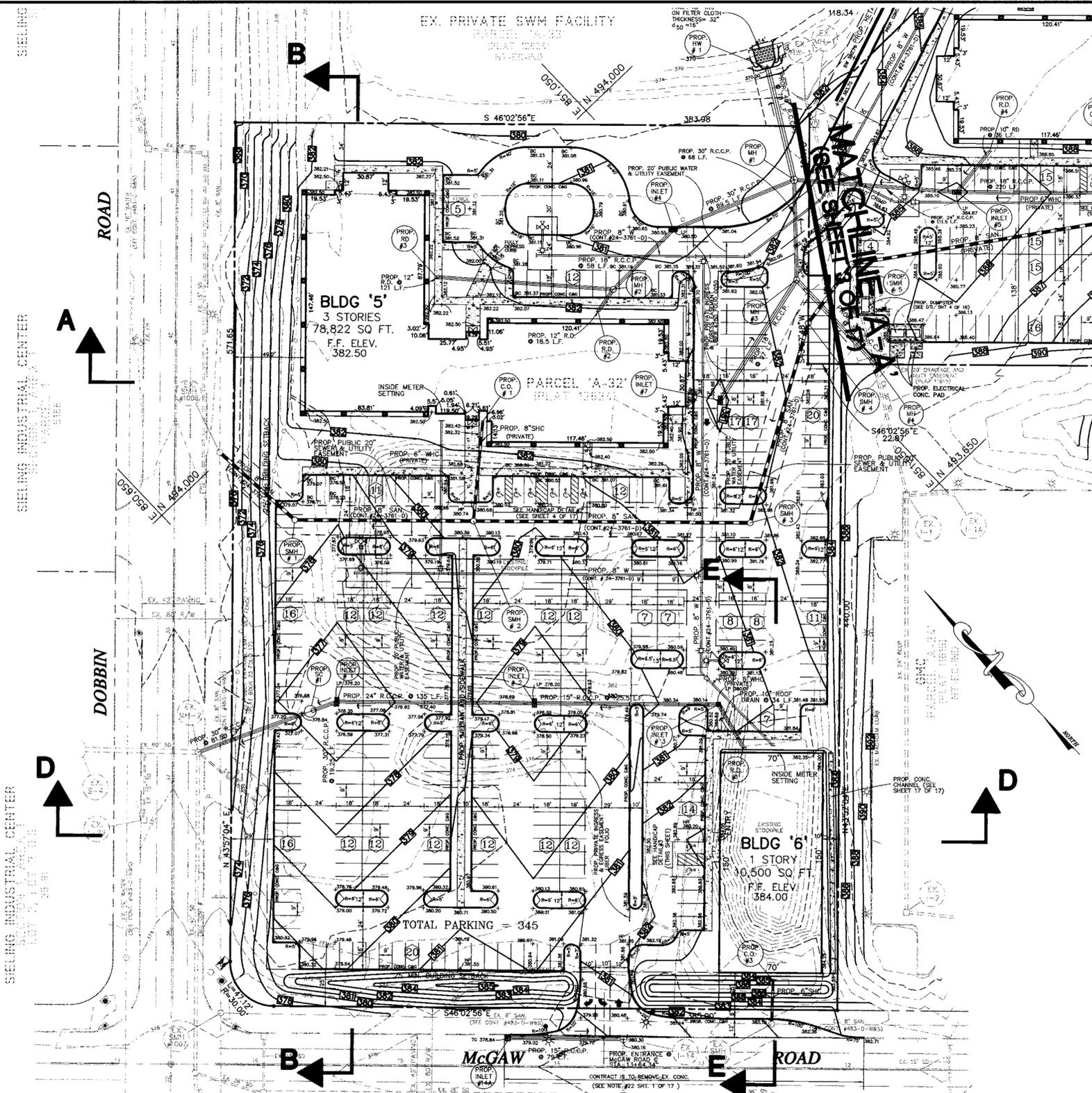
MERRITT - COP IV, LLC
MERRITT - COP V, LLC
SH ROBB IV LIMITED PARTNERSHIP C/O
MERRITT
2066 Lord Baltimore Drive
Baltimore, Maryland 21207
(410) 298-2600

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.	<i>Cheryl Simon / CS</i> USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE: 7/7/99
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.	<i>Yuhua Shu</i> HOWARD SOIL CONSERVATION DISTRICT DATE: 7/7/99

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
NO.	REVISION	DATE
	<i>James Butler</i> DIRECTOR	7/23/99
	<i>Richard Bloual</i> CHIEF, DIVISION OF LAND DEVELOPMENT	7/23/99
	<i>W.D. [Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	7/14/99

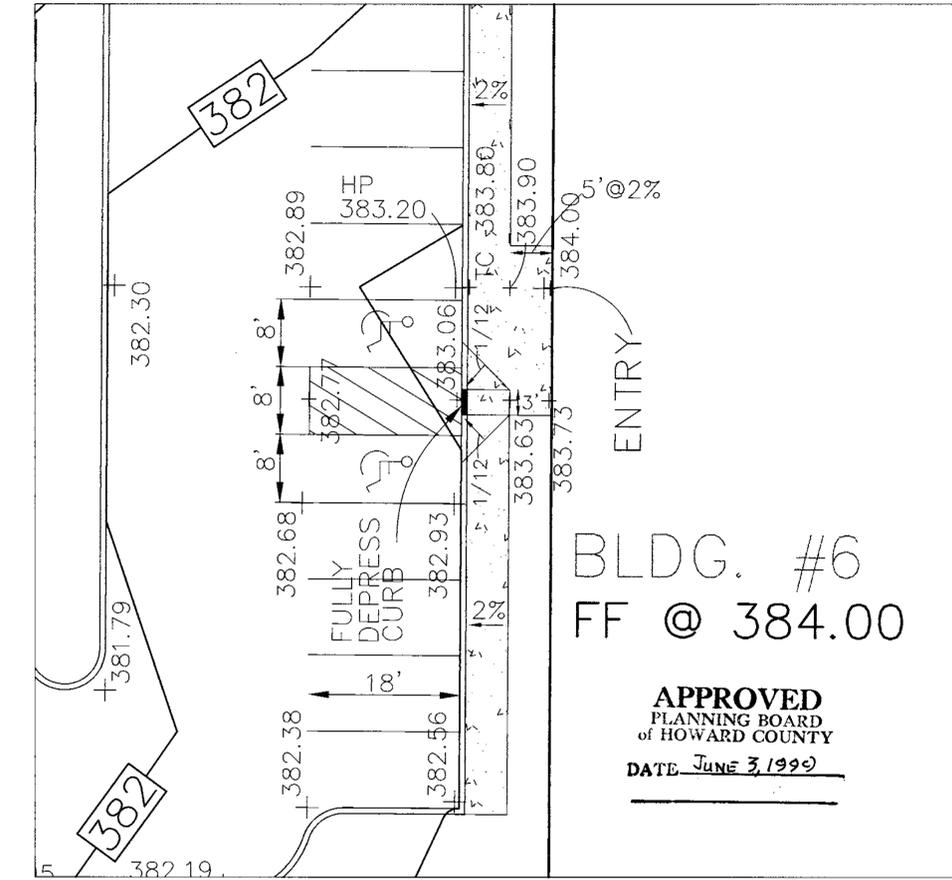


**Barakos-Landino
Design Group**
ENGINEERS / PLANNERS /
SURVEYORS / LANDSCAPE ARCHITECTS
355 Research Parkway
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(203) 630-2615 Fax
849 International Drive, Suite 215
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(410) 859-9100
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Harrisburg, PA 17110
(717) 221-9744
900 Parish Street, Suite 201
Pittsburgh, PA 15220
(412) 928-3060
80 Washington Street, Suite 310
Poughkeepsie, NY 12601
(888) 830-9272
3957 Westerre Parkway
Richmond, VA 23233
(800) 301-3077



LEGEND

EX. 2' CONTOURS	---	382
EX. 10' CONTOURS	---	380
PROP. 2' CONTOURS	---	382
PROP. 10' CONTOURS	---	380
EX. CURB & GUTTER	---	---
PROP. CURB & GUTTER	---	---
BLDG. RESTRICTION LINE	---	---
EX. SANITARY	---	---
EX. STORM DRAIN	---	---
EX. WATER	---	---
PROP. SANITARY	---	---
PROP. STORM DRAIN	---	---
PROP. WATER	---	---



HANDICAP DETAIL #3
SCALE: 1" = 10'

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
A-31	BUILDING #4 8825 STANFORD BOULEVARD
A-32	BUILDING #5 8890 MCGAW ROAD
A-32	BUILDING #6 8880 MCGAW ROAD

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBERS
COLUMBIA CORPORATE PARK	1/1	A-31 & A-32

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#6475	24	N.T. EC-IND	36	6	6067-03

WATER CODE E06 SEWER CODE 5333000

SITE PLAN FOR COLUMBIA CORPORATE PARK

PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-32 & A-31
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: R.A.M.
DRAWN BY: J.E.T.
CHECKED BY: R.A.M.
APPRD. BY: R.A.L.
DATE: 06-04-99
SCALE: 1"=40'

PROJECT # 98B055
DRAWING: SPb05501.DWG
XREFS: XRB05510 XRB05502

2 SHEET OF 17

4/20/99

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ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS

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Pittsburgh, PA 15220
(412) 928-3060

80 Washington Street, Suite 310
Poughkeepsie, NY 12601
(888) 830-9272

3957 Westerre Parkway
Richmond, VA 23233
(800) 301-3077

PLAN
SCALE: 1" = 40'

OWNER / DEVELOPER

MERRITT - CCP IV, LLC
MERRITT - CCP V, LLC
BH ROBB IV LIMITED PARTNERSHIP C/O

MERRITT
2066 Lord Baltimore Drive
Baltimore, Maryland 21207
(410) 298-2600

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

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

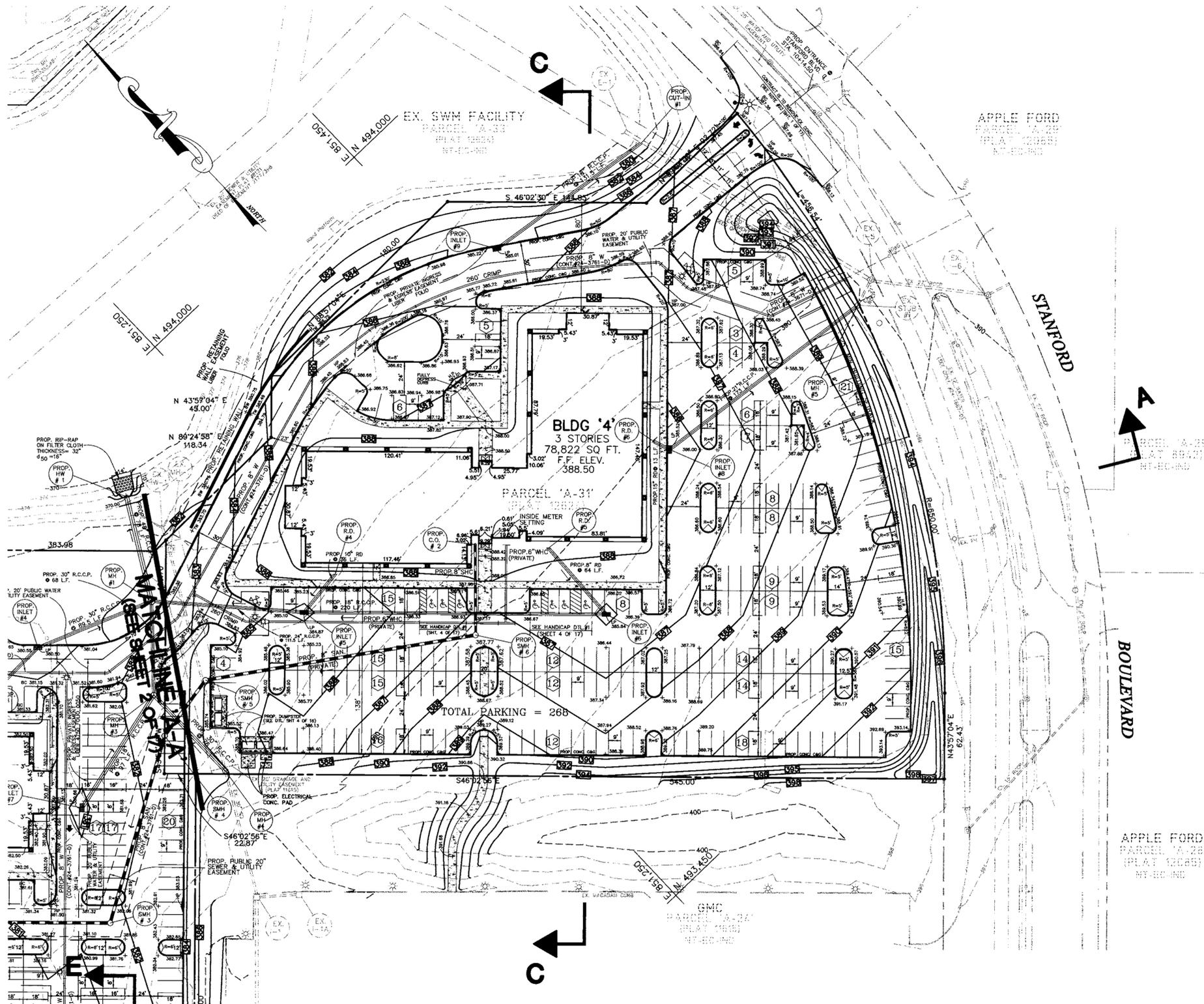
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

J. Robert Butler 7/23/95
DIRECTOR

Richard Blood 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT

Chris Danvers 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE



LEGEND

EX. 2' CONTOURS	---
EX. 10' CONTOURS	---
PROP. 2' CONTOURS	---
PROP. 10' CONTOURS	---
EX. CURB & GUTTER	---
PROP. CURB & GUTTER	---
BLDG. RESTRICTION LINE	---
EX. SANITARY	---
EX. STORM DRAIN	---
EX. WATER	---
PROP. SANITARY	---
PROP. STORM DRAIN	---
PROP. WATER	---

APPROVED
 PLANNING BOARD
 of HOWARD COUNTY
 DATE JUNE 3, 1999

PLAN
 SCALE: 1"=40'

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
A-31	BUILDING #4 8825 STANFORD BOULEVARD
A-32	BUILDING #5 8890 MCGAW ROAD
A-32	BUILDING #6 8880 MCGAW ROAD

SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBERS
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#6172	24	N.T. EC-IND	36	6	6067-03

WATER CODE E06 SEWER CODE 5333000

SITE PLAN
 FOR
COLUMBIA CORPORATE PARK
 PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



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OWNER / DEVELOPER

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

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/23/99
 DIRECTOR

[Signature] 7/23/99
 CHIEF, DIVISION OF LAND DEVELOPMENT

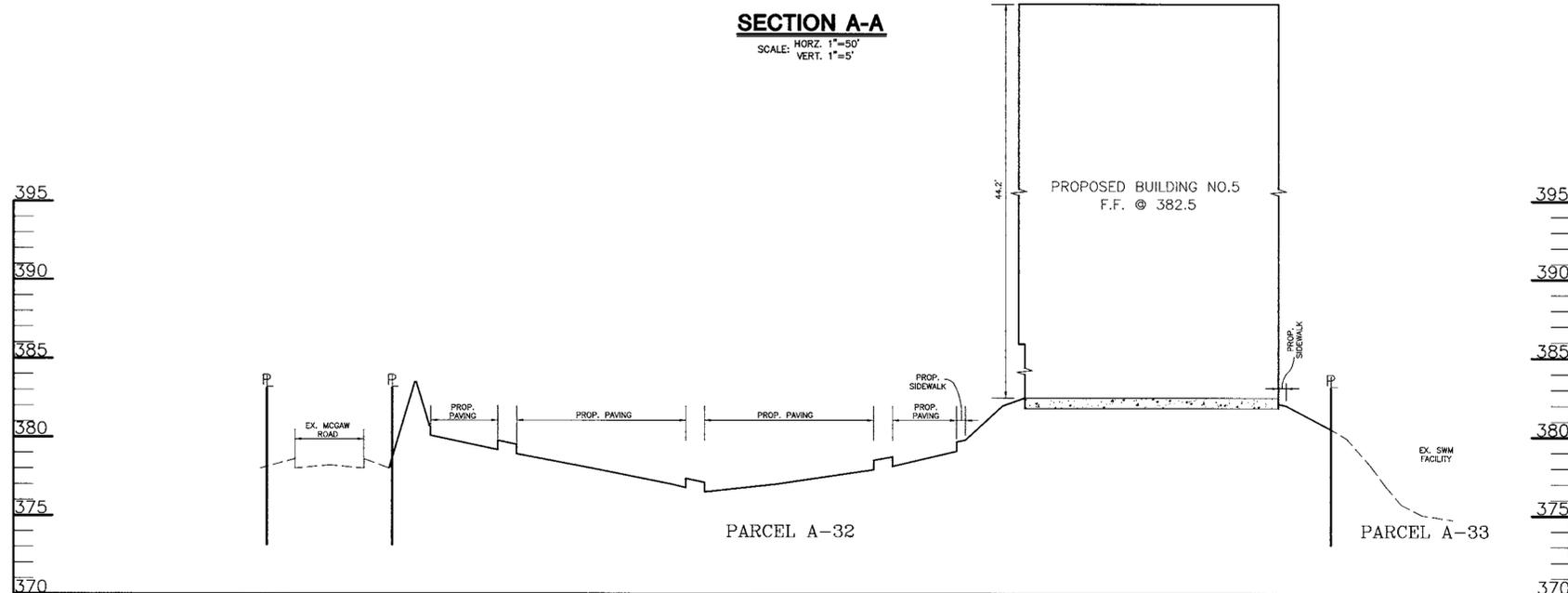
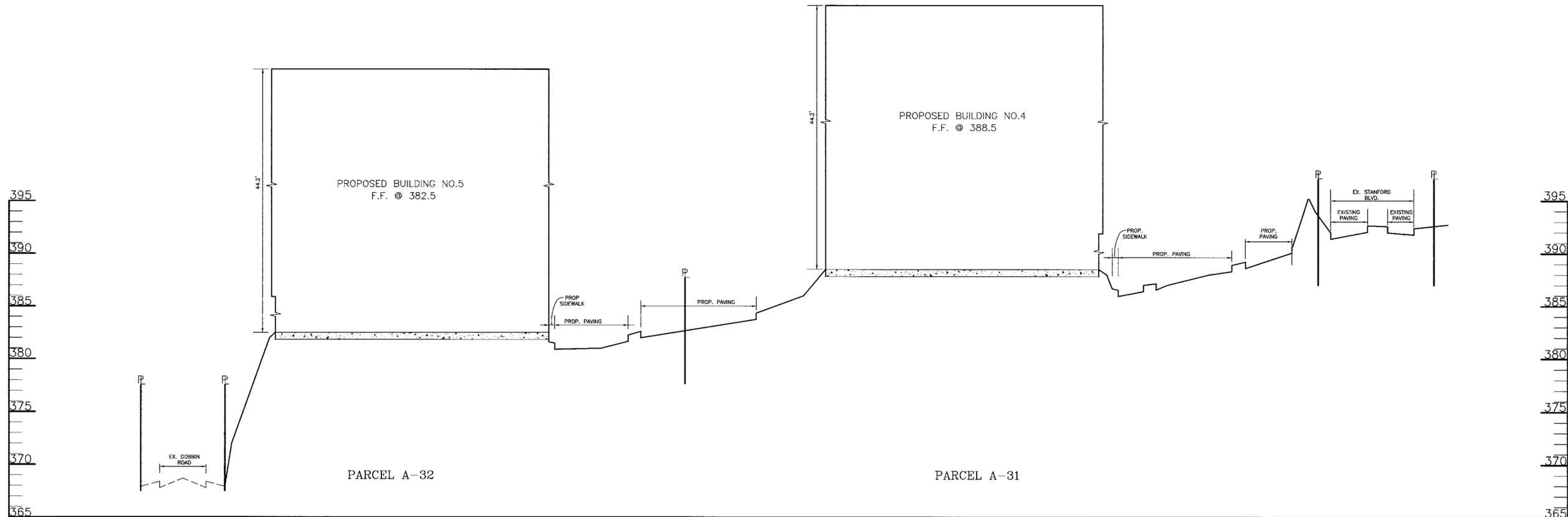
[Signature] 7/14/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE

DESIGN BY: R.A.M.
 DRAWN BY: J.E.T.
 CHECKED BY: R.A.M.
 APPRD. BY: R.A.L.
 DATE: 06-04-99
 SCALE: 1"=40'



PROJECT # 98B055
 DRAWING: SPb05502.DWG
 XREFS: XRB05510
 XRB05502
 3 SHEET OF 17



SECTION A-A
SCALE: HORZ. 1"=50'
VERT. 1"=5'

SECTION B-B
SCALE: HORZ. 1"=50'
VERT. 1"=5'

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE June 3, 1999

ADDRESS CHART					
PARCEL NO.	STREET ADDRESS				
A-31	BUILDING #4 8825 STANFORD BOULEVARD				
A-32	BUILDING #5 8890 MCGAW ROAD				
A-32	BUILDING #6 8880 MCGAW ROAD				
SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBERS		
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#8472	24	N.I. EC-IND	36	6	6067-03
WATER CODE E06		SEWER CODE 5333000			

SECTIONS
FOR
COLUMBIA CORPORATE PARK
PARCELS A-31 & A-32
O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130,
F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1
TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



Barakos-Landino
Design Group
ENGINEERS / PLANNERS /
SURVEYORS / LANDSCAPE ARCHITECTS
355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax
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(410) 859-9100

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80 Washington Street, Suite 310
Poughkeepsie, NY 12601
(888) 830-9272
3957 Westerline Parkway
Richmond, VA 23233
(800) 301-3077

OWNER / DEVELOPER

MERRITT - CCP IV, LLC
MERRITT - COP V, LLC
BH ROBB IV LIMITED PARTNERSHIP C/O
MERRITT
2066 Lord Baltimore Drive
Baltimore, Maryland 21207
(410) 298-2600

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
USDA-NATURAL RESOURCES CONSERVATION SERVICE
DATE _____
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
G.S.
HOWARD SOIL CONSERVATION DISTRICT
DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

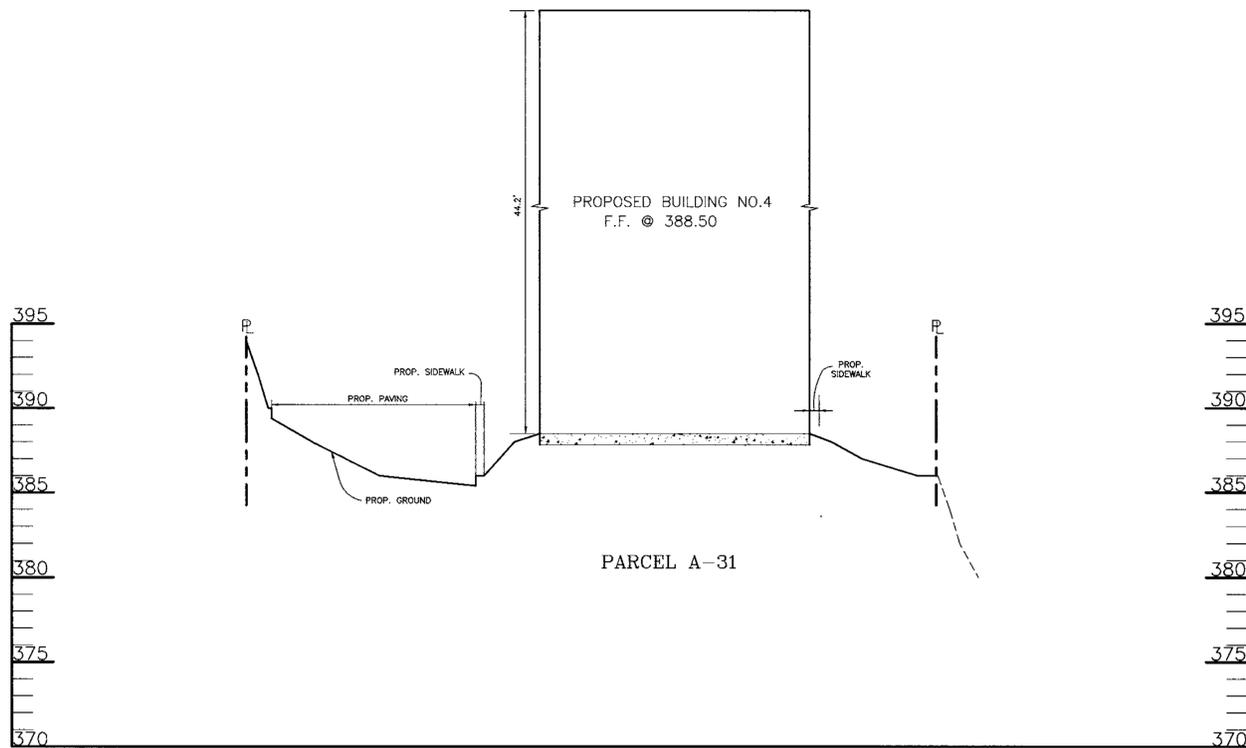
Joseph Scatena 7/23/99
DIRECTOR
Richard Blood 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT
Chris Williams 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE

DESIGNED BY: M.A.D.
DRAWN BY: D.T.A./J.E.T.
CHECKED BY: R.A.M.
APPRD. BY: R.A.L.
DATE: 06-04-99
SCALE: AS SHOWN

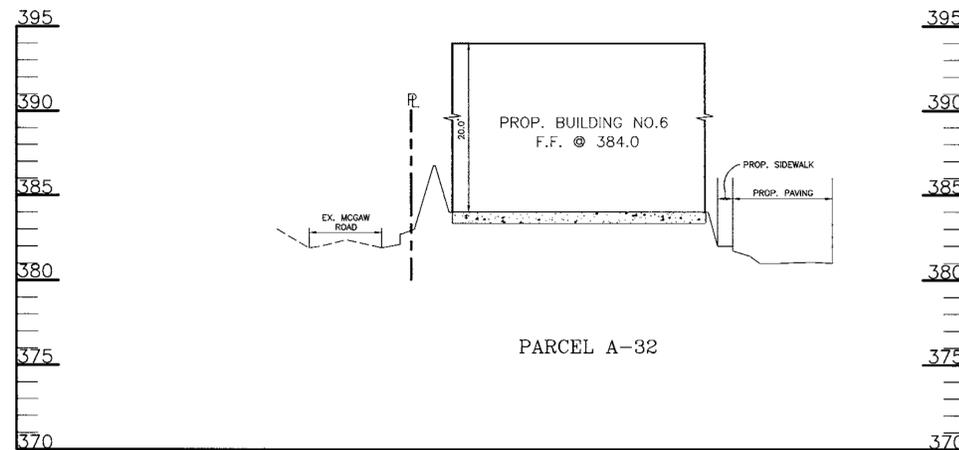


PROJECT # 98B055
DRAWING: Dsb05502
XREFS:
5 SHEET OF 17



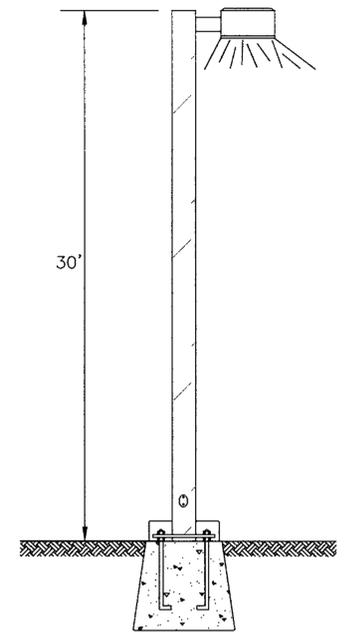
SECTION C-C

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



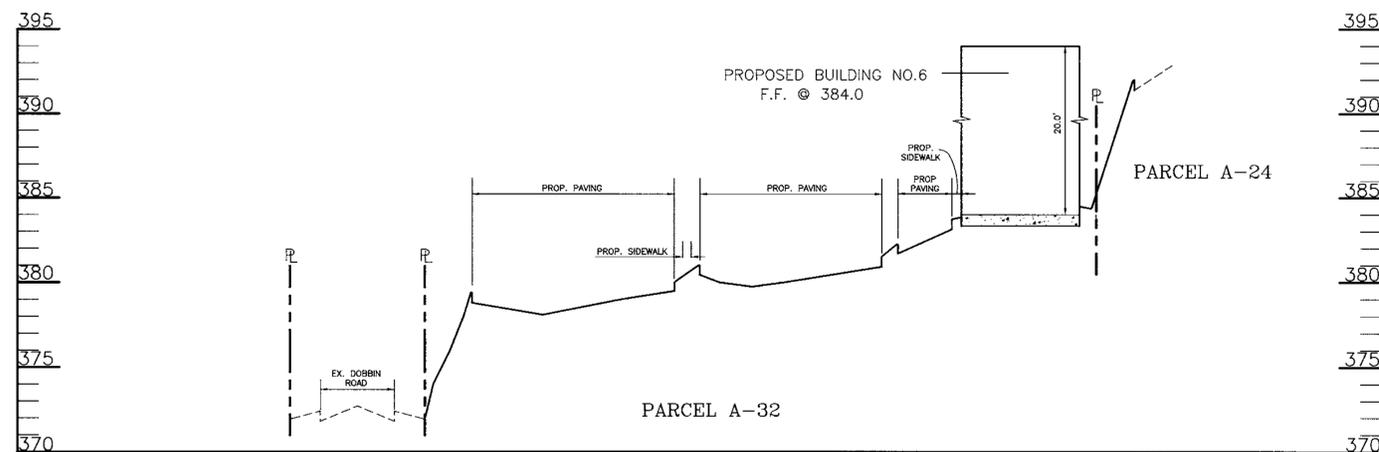
SECTION E-E

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



STD. LIGHT POLE

SEE ELECTRICAL ENGINEER'S LIGHTING PLANS FOR LIGHT LOCATION & SPEC. N.T.S.



SECTION D-D

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

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: June 3, 1999

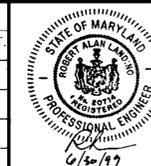
ADDRESS CHART					
PARCEL NO.	STREET ADDRESS				
A-31	BUILDING #4 8825 STANFORD BOULEVARD				
A-32	BUILDING #5 8890 MCGAW ROAD				
A-32	BUILDING #6 8890 MCGAW ROAD				
SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBERS		
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#6475	24	N.T. EC-IND	36	6	6067-03
WATER CODE E06		SEWER CODE 5333000			

SECTIONS
FOR
COLUMBIA CORPORATE PARK
PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGNED BY: <u>M.A.D.</u>	PROJECT # <u>98B055</u>
DRAWN BY: <u>D.T.A./J.E.T.</u>	DRAWING: <u>DSb05503</u>
CHECKED BY: <u>R.A.M.</u>	XREFS:
APPRD. BY: <u>R.A.L.</u>	
DATE: <u>06-04-99</u>	
SCALE: <u>AS SHOWN</u>	6 SHEET OF 17



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MERRITT - CCP V, LLC
BY ROBB IV LIMITED PARTNERSHIP C/O
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(410) 298-2600

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USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

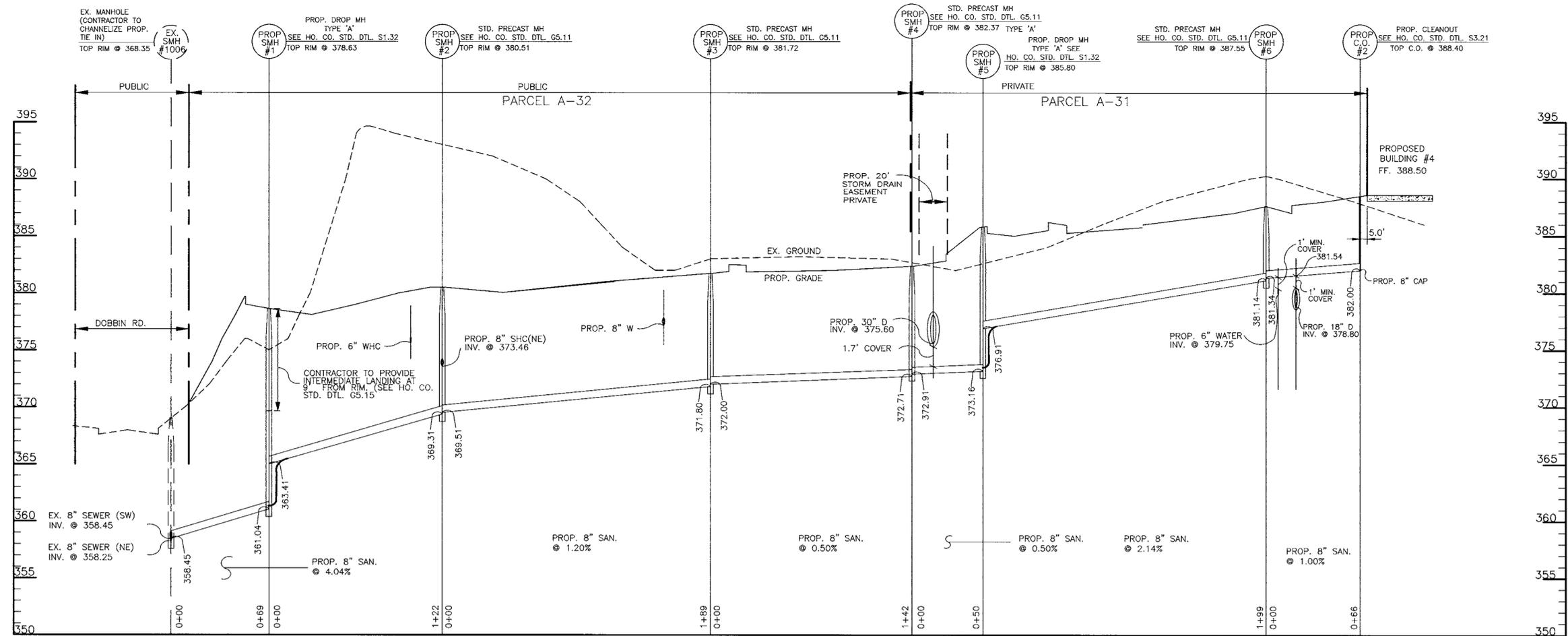
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

David Smith 7/23/99
DIRECTOR

Richard Blawie 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT

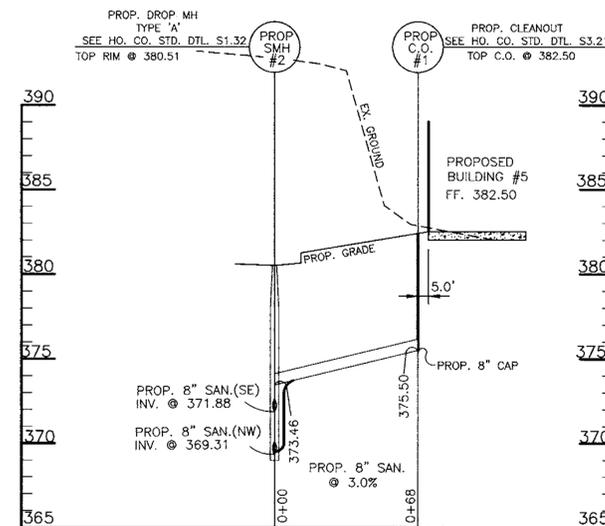
Michael... 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE



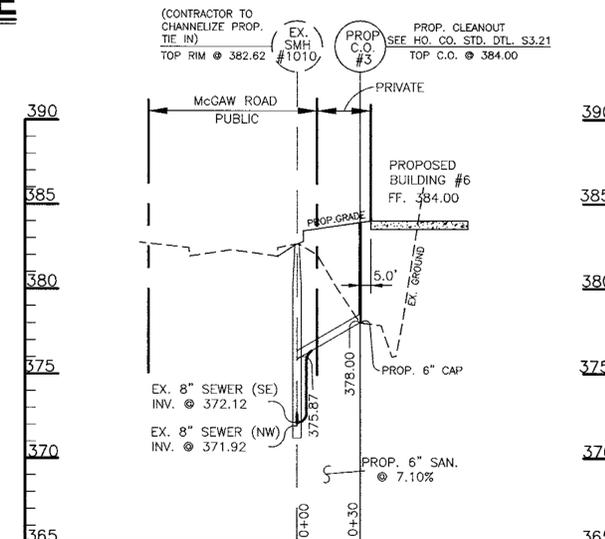
SANITARY SEWER PROFILE

SCALE: HORIZ. 1"=40'
VERT. 1"=5'



SANITARY SEWER PROFILE

SCALE: HORIZ. 1"=40'
VERT. 1"=5'



SANITARY SEWER PROFILE

SCALE: HORIZ. 1"=40'
VERT. 1"=5'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE JUNE 3, 1999

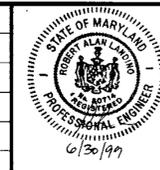
ADDRESS CHART					
PARCEL NO.	STREET ADDRESS				
A-31	BUILDING #4 8825 STANFORD BOULEVARD				
A-32	BUILDING #5 8890 MCGAW ROAD				
A-32	BUILDING #6 8880 MCGAW ROAD				
SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBERS		
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
8975 F	24	N.T. EC-IND	36	6	6067-03
WATER CODE E06		SEWER CODE 5333000			

PROFILES
FOR
COLUMBIA CORPORATE PARK

PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1
TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: R.A.M.
DRAWN BY: RFS/MAD
CHECKED BY: R.A.M.
APPRD. BY: R.A.L.
DATE: 06-04-99
SCALE: AS SHOWN



PROJECT # 98B055
DRAWING: PFB05501.DWG
XREFS:
7 SHEET OF 17



Barakos-Landino
Design Group
ENGINEERS / PLANNERS /
SURVEYORS / LANDSCAPE ARCHITECTS

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email: bladgo@aerols.com

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USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

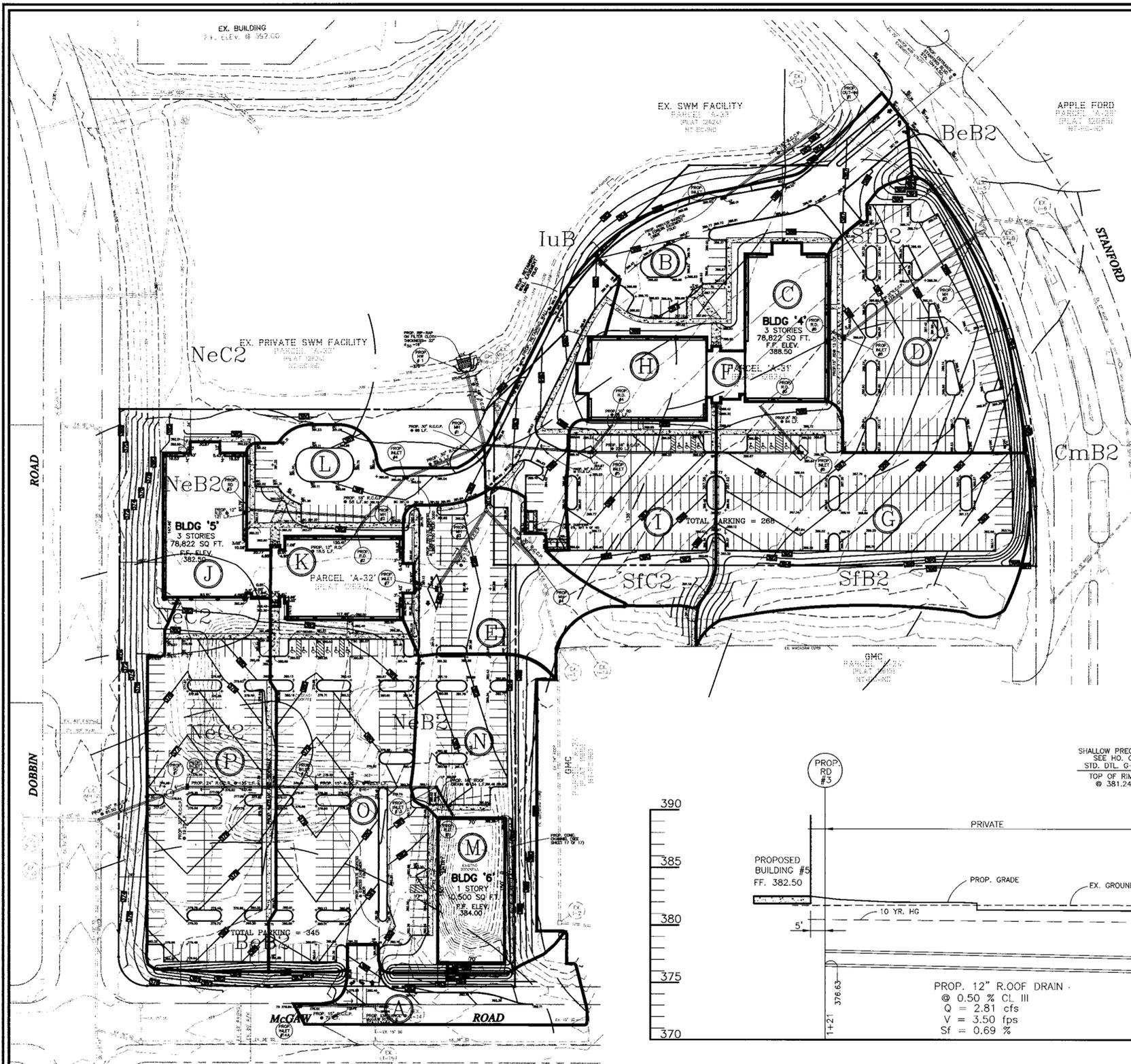
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Frank R. Miller 7/23/99
DIRECTOR

Richard Blood 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT

William J. ... 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO. REVISION DATE



DRAINAGE AREA			
AREA	ACREAGE	'C'	IMPERV.
A	0.39	0.56	0.23 AC
B	0.81	0.62	0.46 AC
C	0.32	0.86	0.32 AC
D	1.04	0.72	0.81 AC
E	0.61	0.63	0.39 AC
F	0.05	0.86	0.05 AC
G	1.40	0.59	0.72 AC
H	0.26	0.86	0.26 AC
I	0.67	0.62	0.40 AC
J	0.34	0.86	0.34 AC
K	0.28	0.86	0.29 AC
L	0.90	0.67	0.62 AC
M	0.24	0.86	0.24 AC
N	0.64	0.56	0.31 AC
O	1.32	0.77	1.06 AC
P	1.15	0.78	0.97 AC

INLET SCHEDULE						
NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	Q _s cfs	HO. CO. STD. PLATE
I-1	DBL TYPE "S"	* 376.20	369.78	366.99	21.65	SD-4.23
I-2	DBL TYPE "S"	* 378.20	373.38	371.13	14.11	SD-4.23
I-3	TYPE "S"	* 380.07	375.88	374.63	5.19	SD-4.22
I-4	DBL TYPE "S" COMB.	* 380.50	375.22	374.22	9.67	SD-4.34
I-5	DBL TYPE "S"	* 384.87	377.57 (SE) 379.09 (E)	377.07	12.54	SD-4.23
I-6	DBL TYPE "S"	* 385.84	380.60	379.77	7.56	SD-4.23
I-7	DBL TYPE "S"	* 380.98	-	375.60	3.91	SD-4.23
I-8	DBL TYPE "S" COMB.	* 385.52	380.63	380.38	9.71	SD-4.34
I-9	DBL TYPE "S" COMB.	* 385.01	-	376.29	4.68	SD-4.34
I-14A	TYPE A-5	**379.89	-	376.57	2.55	SD-4.40

* = TOP OF GRATE ELEVATION
** = TOP OF CURB

STRUCTURE SCHEDULE					
NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	HO. CO. STD. PLATE
MH-1	BRICK MH	* 382.67	24'(SE) 376.27 30'(SW) 375.77	372.27	G-5.03
MH-2	SHALLOW PRECAST	* 381.24	12'(SW) 378.02 12'(SW) 376.02	375.51	G-5.12
MH-3	STD PRECAST	* 382.40	18'(SW) 375.11 30'(SW) 374.21	374.11	G-5.11
MH-4	STD PRECAST	* 385.90	378.72	378.68	G-5.11
HW-1	TYPE 'A'	**375.50	370.00	-	SD-5.11

* = TOP OF RIM ELEVATION
** = TOP OF WALL

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE JUNE 3, 1999

SOIL CHART		
SOIL	NAME/DESCRIPTION	GROUP
NeB2	NESHAMINY SILT LOAM- SLIGHT	B
NeC2	NESHAMINY SILT LOAM- MODERATE:SLOPES	B
BeB2	BELTSVILLE SILT LOAM-SLIGHT	C
IuB	IUKA LOAM-SLIGHT	C
Sfc2	SASSAFRAS GRAVELLY SANDY LOAM-SLIGHT	B
Sfb2	SASSAFRAS GRAVELLY SANDY LOAM-SLIGHT	B
CmB2	CHILLUM SILT LOAM-SLIGHT	B

DRAINAGE AREA MAP
SCALE: 1" = 60'

STORM DRAIN PROFILE
HORIZ. 1"=20'
SCALE: VERT. 1"=5'

ADDRESS CHART					
PARCEL NO.	STREET ADDRESS				
A-31	BUILDING #4 8825 STANFORD BOULEVARD				
A-32	BUILDING #5 8890 MCGAW ROAD				
A-32	BUILDING #6 8880 MCGAW ROAD				
SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBERS		
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#6479	24	N.T. EC-IND	36	6	6067-03
WATER CODE E06		SEWER CODE 5333000			

DRAINAGE AREA MAP
FOR
COLUMBIA CORPORATE PARK
PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: N.W./R.A.M.
DRAWN BY: J.E.T./D.T.A.
CHECKED BY: R.A.M.
APPRD. BY: R.A.L.
DATE: 06-04-99
SCALE: AS SHOWN



PROJECT # 98B055
DRAWING: DAb05501
XREFS: XRB05510
XRB05502
8 SHEET 17



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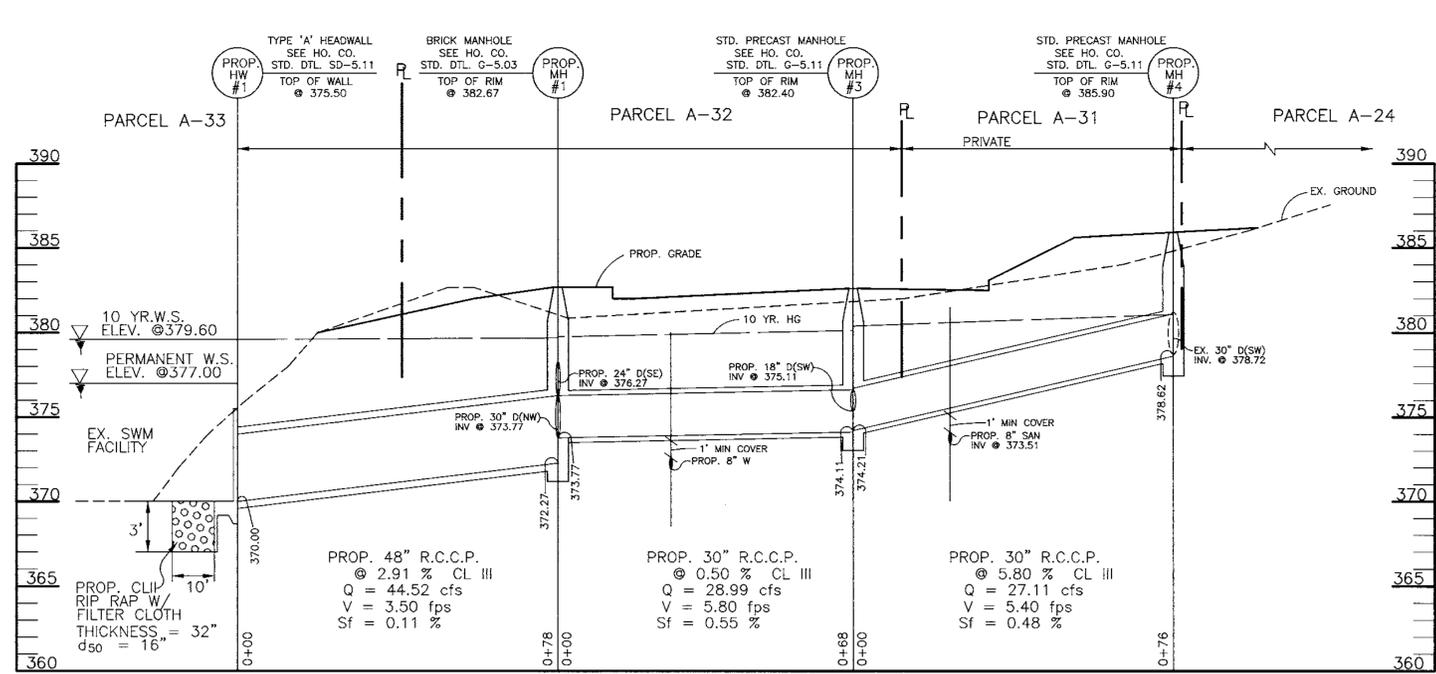
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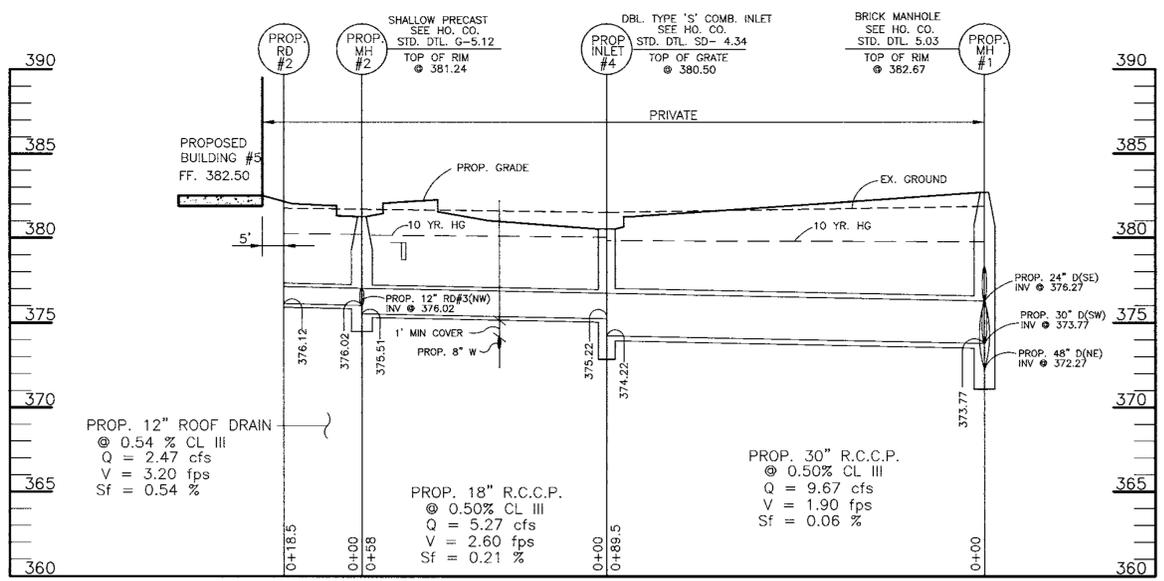
THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
USDA-NATURAL RESOURCES CONSERVATION SERVICE
DATE: _____
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD SOIL CONSERVATION DISTRICT
DATE: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR: *[Signature]* 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* 7/23/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* 7/14/99

NO.	REVISION	DATE

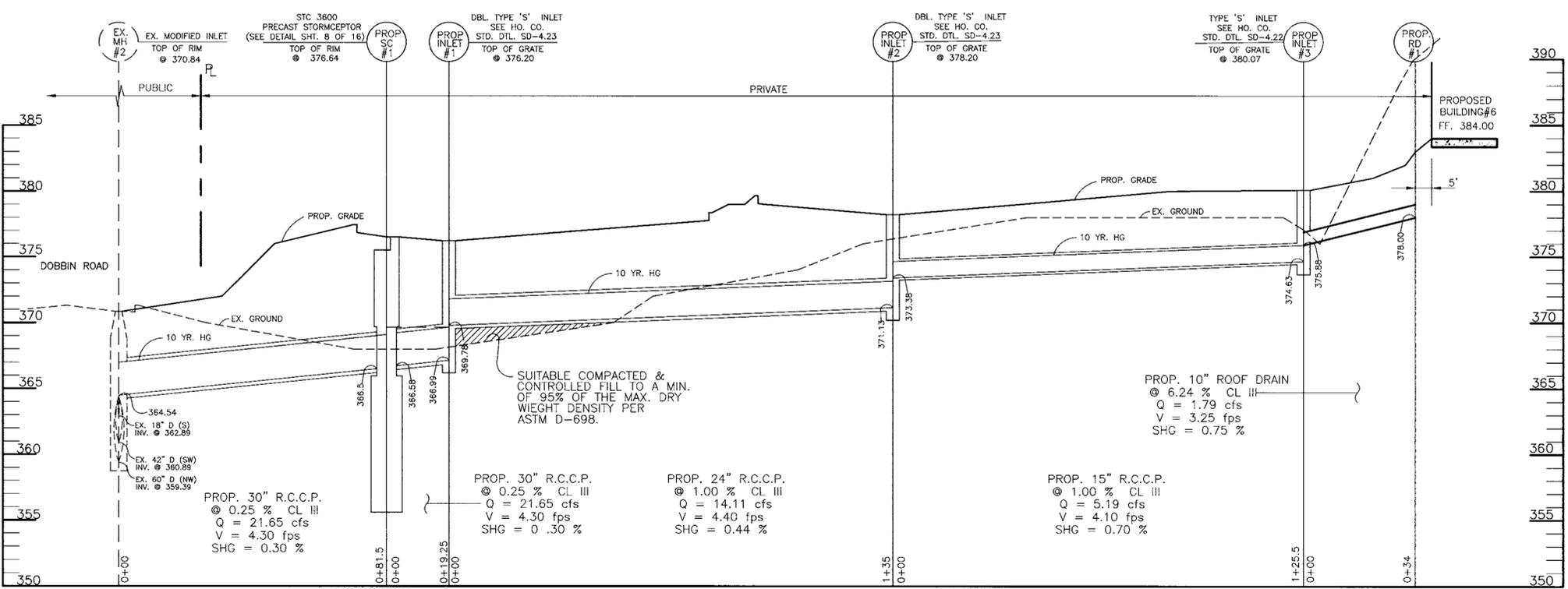


STORM DRAIN PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

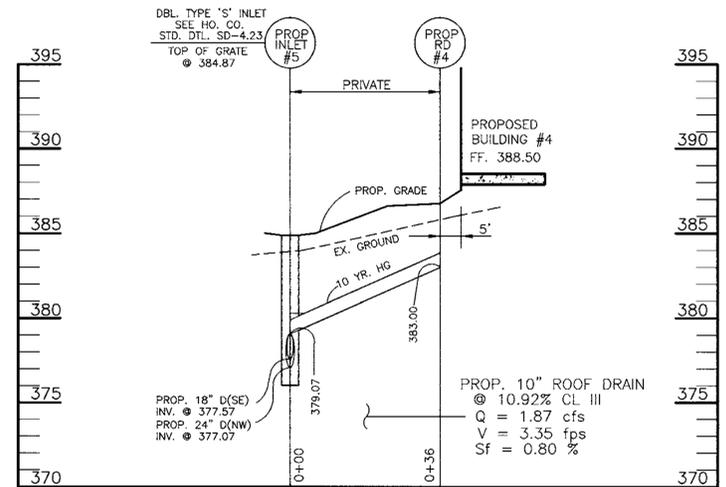


STORM DRAIN PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE JUNE 3, 1999



STORM DRAIN PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'



STORM DRAIN PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

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PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#6475 & #6476	24	N.T. EC-IND	36	6	6067-03
WATER CODE E06		SEWER CODE 5333000			

STORM DRAIN PROFILES
FOR
COLUMBIA CORPORATE PARK
PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1
TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: N.W.
DRAWN BY: J.E.T.
CHECKED BY: R.A.M.
APPRD. BY: RAL
DATE: 06-04-99
SCALE: AS SHOWN

PROJECT # 98B055
DRAWING: Sdb05501.DWG
XREFS:

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Cheryl Simon / *AS* 7/2/99
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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Goffy Sol / *AS* 7/7/99
HOWARD SOIL CONSERVATION DISTRICT DATE

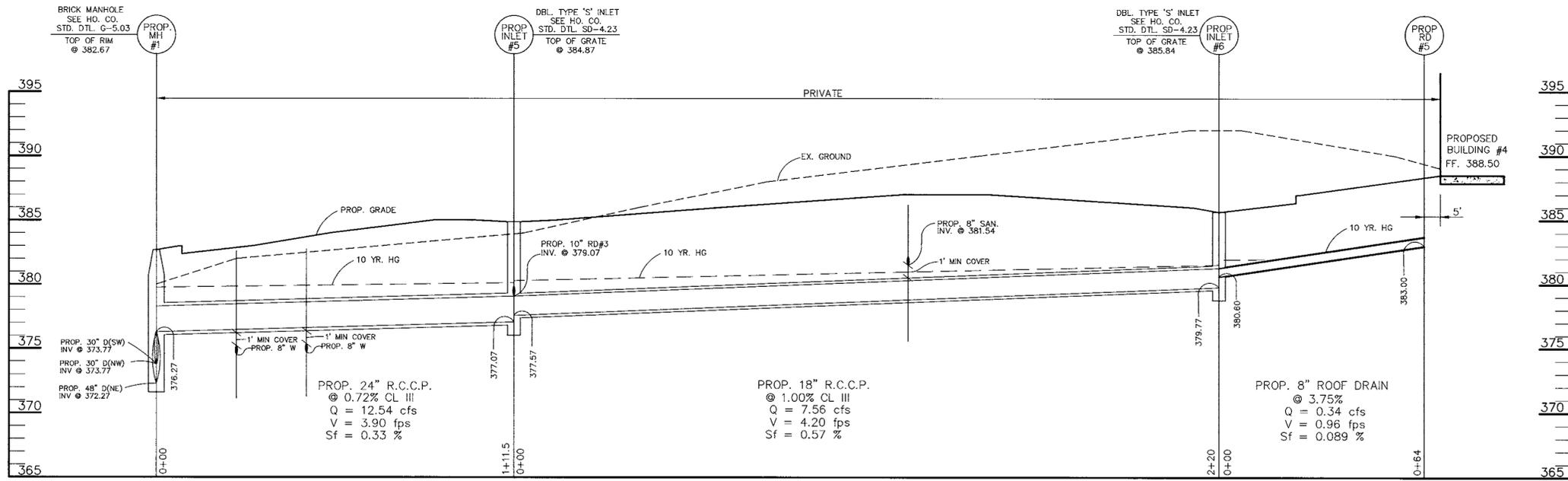
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

David K. Miller / *AS* 7/23/99
DIRECTOR

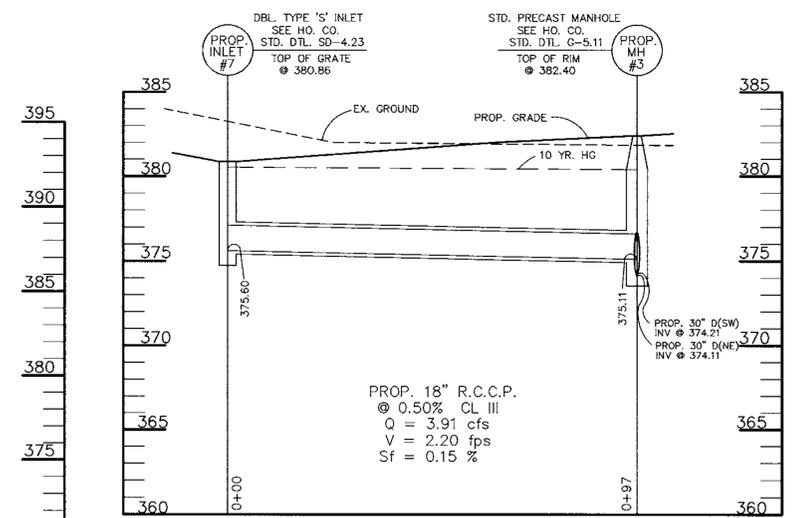
Richard Blawie / *AS* 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT

William D. ... / *AS* 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE

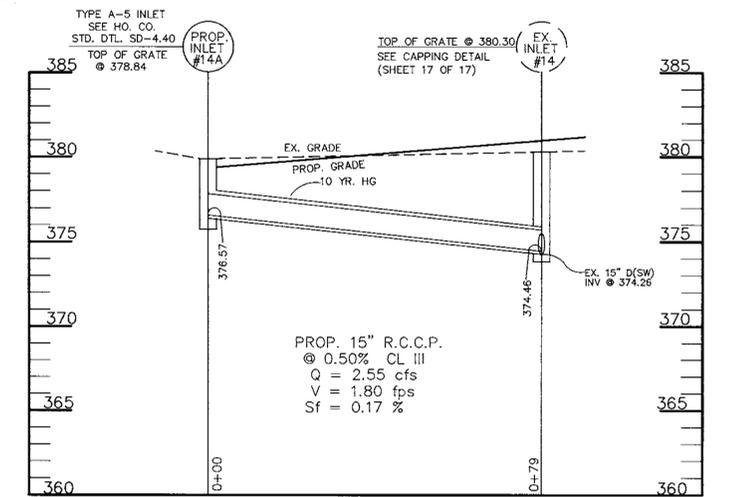


STORM DRAIN PROFILE
SCALE: HORZ. 1"=20'
VERT. 1"=5'

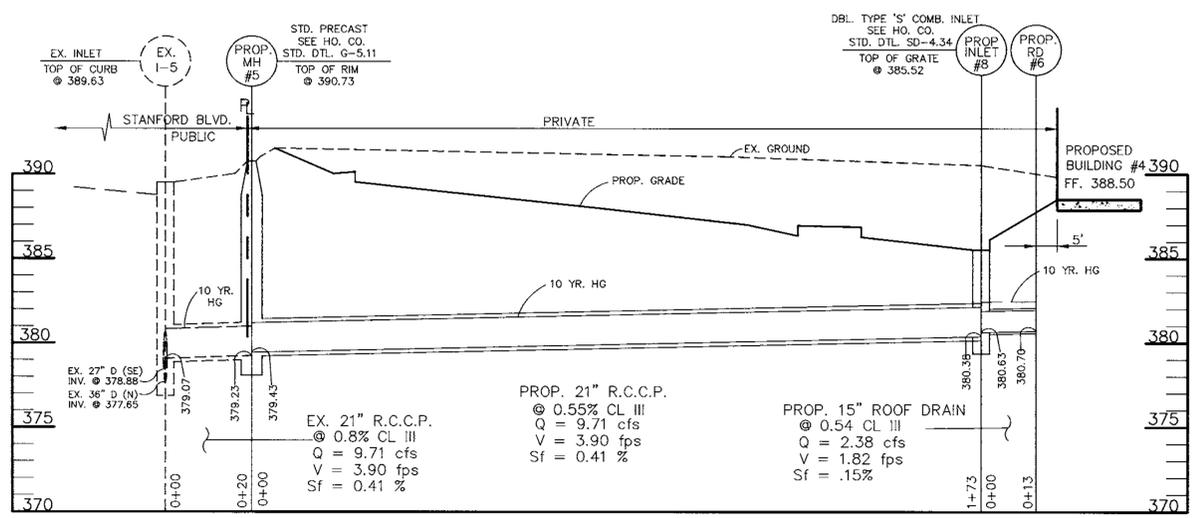


STORM DRAIN PROFILE
SCALE: HORZ. 1"=20'
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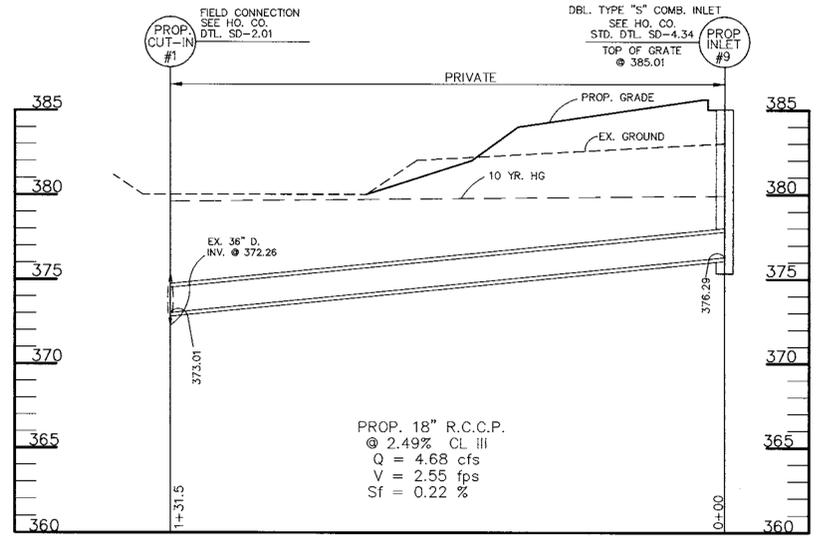
APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE June 3, 1999



STORM DRAIN PROFILE
SCALE: HORZ. 1"=20'
VERT. 1"=5'



STORM DRAIN PROFILE
SCALE: HORZ. 1"=20'
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STORM DRAIN PROFILE
SCALE: HORZ. 1"=20'
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ADDRESS CHART					
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A-32	BUILDING #5 8890 MCGAW ROAD				
A-32	BUILDING #6 8880 MCGAW ROAD				
SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBERS		
COLUMBIA CORPORATE PARK		1/1	A-31 & A-32		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
#6438 F	24	N.T.	36	6	6067-03
WATER CODE E06		SEWER CODE 5333000			

STORM DRAIN PROFILES
FOR
COLUMBIA CORPORATE PARK
PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32 HOWARD COUNTY, MARYLAND

DESIGN BY: N.W.
DRAWN BY: J.E.T.
CHECKED BY: R.A.M.
APPRD. BY: R.A.L.
DATE: 06-04-99
SCALE: AS SHOWN

PROJECT # 98B055
DRAWING: SDB05502.DWG
XREFS:

10 SHEET OF 17

Barokos-Landino Design Group
ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS

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(203) 630-2615 Fax

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(410) 859-9100

210 West 70th Street, Suite 604
New York, NY 10023

2933 North Front Street, Suite 1
Poughkeepsie, NY 12601
(888) 830-9272

3957 Weststar Parkway
Richmond, VA 23233
(800) 301-3077

OWNER / DEVELOPER

MERRITT - COP IV, LLC
MERRITT - COP V, LLC
BH ROBB IV LIMITED PARTNERSHIP C/O

2066 Lord Baltimore Drive
Baltimore, Maryland 21207
(410) 298-2600

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

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

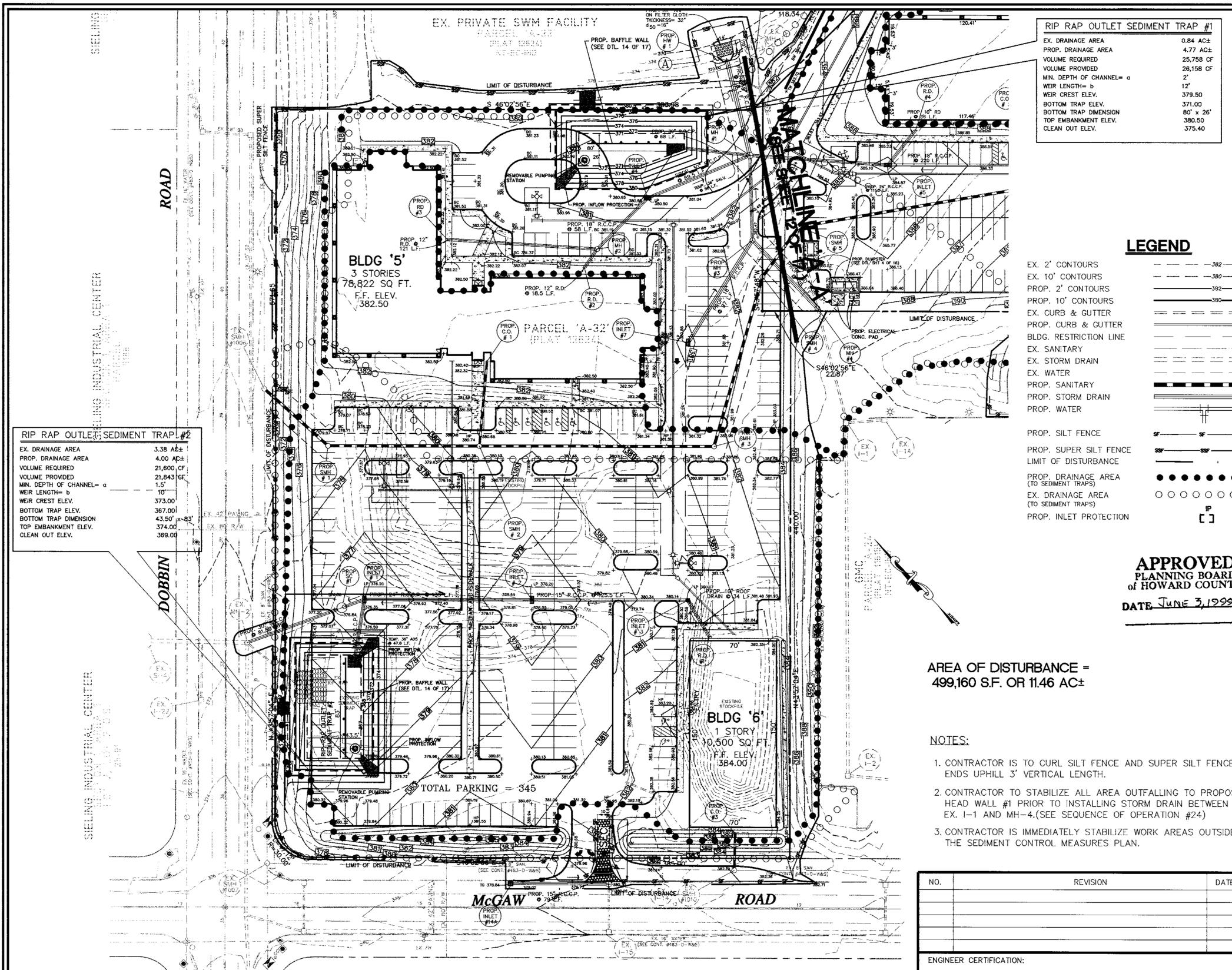
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Richard Blouel 7/23/99
DIRECTOR

Richard Blouel 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT

William Dammann 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE



RIP RAP OUTLET SEDIMENT TRAP #1

EX. DRAINAGE AREA	0.84 AC±
PROP. DRAINAGE AREA	4.77 AC±
VOLUME REQUIRED	25,758 CF
VOLUME PROVIDED	26,158 CF
MIN. DEPTH OF CHANNEL= a	2'
WEIR LENGTH= b	12'
WEIR CREST ELEV.	379.50
BOTTOM TRAP ELEV.	371.00
BOTTOM TRAP DIMENSION	80' x 26'
TOP EMBANKMENT ELEV.	380.50
CLEAN OUT ELEV.	375.40

RIP RAP OUTLET SEDIMENT TRAP #2

EX. DRAINAGE AREA	3.38 AC±
PROP. DRAINAGE AREA	4.00 AC±
VOLUME REQUIRED	21,600 CF
VOLUME PROVIDED	21,843 CF
MIN. DEPTH OF CHANNEL= a	1.5'
WEIR LENGTH= b	10'
WEIR CREST ELEV.	373.00
BOTTOM TRAP ELEV.	367.00
BOTTOM TRAP DIMENSION	43.50' x 23'
TOP EMBANKMENT ELEV.	374.00
CLEAN OUT ELEV.	369.00

LEGEND

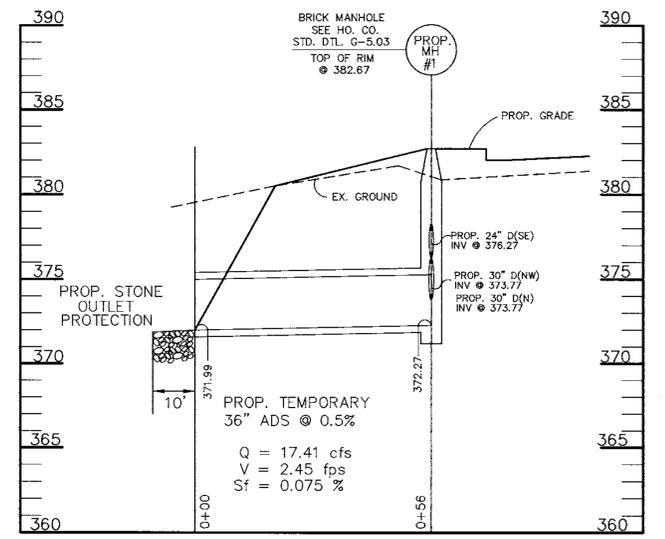
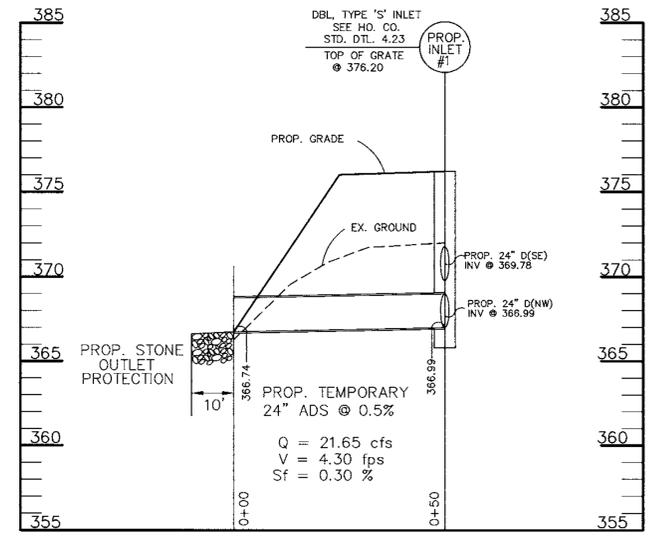
- EX. 2' CONTOURS
- EX. 10' CONTOURS
- PROP. 2' CONTOURS
- PROP. 10' CONTOURS
- EX. CURB & GUTTER
- PROP. CURB & GUTTER
- BLDG. RESTRICTION LINE
- EX. SANITARY
- EX. STORM DRAIN
- EX. WATER
- PROP. SANITARY
- PROP. STORM DRAIN
- PROP. WATER
- PROP. SILT FENCE
- PROP. SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- PROP. DRAINAGE AREA (TO SEDIMENT TRAPS)
- EX. DRAINAGE AREA (TO SEDIMENT TRAPS)
- PROP. INLET PROTECTION

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
 DATE JUNE 3, 1999

AREA OF DISTURBANCE =
 499,160 S.F. OR 11.46 AC±

NOTES:

- CONTRACTOR IS TO CURL SILT FENCE AND SUPER SILT FENCE ENDS UPHILL 3' VERTICAL LENGTH.
- CONTRACTOR TO STABILIZE ALL AREA OUTFALLING TO PROPOSED HEAD WALL #1 PRIOR TO INSTALLING STORM DRAIN BETWEEN EX. I-1 AND MH-4. (SEE SEQUENCE OF OPERATION #24)
- CONTRACTOR IS IMMEDIATELY STABILIZE WORK AREAS OUTSIDE THE SEDIMENT CONTROL MEASURES PLAN.



ADDRESS CHART

PARCEL NO.	STREET ADDRESS
A-31	BUILDING #4 8825 STANFORD BOULEVARD
A-32	BUILDING #5 8890 MCGAW ROAD
A-32	BUILDING #6 8880 MCGAW ROAD
SUBDIVISION NAME: COLUMBIA CORPORATE PARK SECTION/AREA: 1/1 PARCEL NUMBERS: A-31 & A-32	
PLAT NO. BLOCK NO. ZONE TAX/ZONE ELECT. DIST. CENSUS TR.	
#6475 24 N.I. EC-IND 36 6 6067-03	
WATER CODE E06 SEWER CODE 5333000	

SEDIMENT CONTROL PLAN
 FOR
COLUMBIA CORPORATE PARK
 PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: M.A.D.
 DRAWN BY: RFS/MAD
 CHECKED BY: R.A.M.
 APPRD. BY: RAL
 DATE: 06-04-99
 SCALE: 1"=40'

PROJECT # 98B055
 DRAWING: Ec05501
 XREFS: XRB05510, XRB05502, XRB05512
 11 SHEET OF 17

Barakos-Landino Design Group
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 (800) 301-3077

OWNER / DEVELOPER

BH ROBB IV LIMITED PARTNERSHIP C/O
MERRITT
 2066 Lord Baltimore Drive
 Baltimore, Maryland 21207
 (410) 298-2600

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR **SMALL ROAD CONSTRUCTION - GS** SOIL EROSION AND SEDIMENT CONTROL.

Cheryl Stinner 7/7/99
 USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Yosh Ak 7/7/99
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Robert A. Casanova 7/23/99
 DIRECTOR

Richard Blood 7/23/99
 CHIEF, DIVISION OF LAND DEVELOPMENT

Walter J. Swartz 7/14/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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 *Robert A. Casanova* DATE *6/6/99*
 NAME *Robert A. Casanova* PE# *20714*

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 *Walter J. Swartz* DATE *6/24/99*
 NAME *Gary Swartz Merritt Corp*

STABILIZATION SPECIFICATION

SECTION I - Vegetative Stabilization Methods and Materials

A. Site Preparation

- Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
- Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
- Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.

B. Soil Amendments

- Soil tests must be performed to determine the exact ratios 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. Soil samples taken for engineering purposes may also be used for chemical analyses.
- 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 all be delivered to the site fully labeled according to the applicable state 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 contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98 - 100% will pass through a #20 mesh sieve.

C. Seedbed Preparation

- Temporary Seeding.**
 - Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked 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.
 - Incorporate lime and fertilizer into the top 3-5" of the soil by disking or the other suitable means.

ii. Permanent Seeding

- Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40 % clay but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lowgrass or sericea lespedeza is to be planted, then a sandy soil (< 30% silt plus clay) would be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with section 21 Standard and Specification for Topsoil.
- Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
- Apply soil amendments as per soil test or as included on the plans.

- Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Low areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the areas for seed application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridged running parallel to the contour of the slope. The top 1-3" of the soil should be loose and friable. Seedbed 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 seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing material on this job.

Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
- Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 - 80 F. can weaken bacteria and make the inoculant less effective.

E. Methods of Seeding

- Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeder, or a cultipacker seeder.
 - If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen; maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorus): 200 lbs/acre; K2O (potassium): 200 lbs/acre.
 - Lime - use only ground agricultural limestone, (up to 3 tons per acre may be 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.

ii. 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 seeded area shall then 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 seeding rate in each direction.
- Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
- Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
- Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

F. Mulch Specifications (In order of preference)

- Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonably bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
- Wood Cellulose Fiber Mulch (WCFM)
 - WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical 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 uniformly 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 fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation 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 be phytotoxic.
 - WCFM must conform to the following physical requirements: fiber length to approximately 10 mm, diameter approximately 1mm, pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.

- Only sterile straw mulch should be used in areas where one species of grass is desired.
- Mulching Seeded Areas: Mulch shall be applied to all seeded areas immediately after seeding.
- If grading is completed outside of the seeding season, mulch alone shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with specifications.
- When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be to 2.5 tons/acre.
- Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

- Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:
 - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
 - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

- Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. The remainder of area should be applied uniform after binder application. Synthetic binders - such as Acrylic DLR (Ago-Tack), DCA-70, Petroset, Terra Tex II, Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
- Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.

I. Incremental Stabilization - Cut Slopes

- All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
- Construction sequence (Refer to Figure 3 below)
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform phase 1 excavation, dress, and stabilize.
 - Perform phase 2 excavation, dress, and stabilize. Overseed phase 1 areas as necessary.
 - Perform final phase excavation, dress, and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

J. Incremental Stabilization of Embankments - Fill Slopes

- Embankments shall be constructed in lifts as prescribed on the plans.
- Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15', or when the grading operation ceases as prescribed on the plans.
- At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping device.
- Construction sequence: Refer to figure 4 (below)
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct Slope Silt Fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.
 - Place phase 1 embankment, dress and stabilize.

c. Place phase 2 embankment, dress and stabilize.

- Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.
- Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation out of the seeding season will necessitate the application of temporary stabilization.

SECTION II - Temporary Seeding

Vegetation - annual grass or grain used to provide cover on disturbed areas for up to 12 months. Duration of vegetative cover, Permanent Seeding is required.

A. Seed mixtures - Temporary Seeding

- Select one or more of the species or mixtures listed in Table 26 for the appropriate Plant Hardiness Zone (from Figure 5) and enter them in the Temporary Seeding Summary below, along with application rates, seeding dates and seeding depths. If this summary is not put on the plans and completed, then Table 26 must be put on plans.
- For sites having soil tests performed, the rates shown on this table shall be deleted and the Rates recommended by the testing agency shall be written in. Soil tests are not required for Temporary Seeding.

SECTION III - Permanent Seeding

Seeding and legumes to establish ground cover for a minimum period of one year on disturbed areas generally receiving low maintenance.

A. Seed Mixtures - Permanent Seeding

- Select one or more of the species or mixtures listed in Table 25 for the appropriate Plant Hardiness Zone (from Figure 5) and enter them in the Permanent Seeding Summary below, along with application rates and seeding dates. Seeding depths can be estimated using Table 26. If this summary is not put on the construction plans and completed, then Table 25 must be put on the plans. Additional planting specifications for exceptional sites such as shoreline, streambanks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA - SCS Technical Field Office Guide, Section 342 - Critical Area Planting. For special lawn maintenance areas, see Sections IV SD and V Turfgrass.
- For sites having disturbed area over 5 acres, the rates shown on this table shall be deleted and the rates recommended by the soil testing agency shall be written in.
- For areas receiving low maintenance, apply ureamform fertilizer (46-0-0) at 3 1/2 lbs/1000 sq. ft. (150 lbs/acre), in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

SECTION IV - Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

A. General Specifications

- Class of turfgrass sod shall be Maryland or Virginia State Certified or Approved. Sod labels shall be made available to the job foreman and inspector.
- Sod shall be machine cut to a uniform soil thickness of 1", plus or minus 1/8", at the time of cutting. Measurement for thickness shall exclude top growth and thatch. Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pads and torn or uneven ends will not be acceptable.
- Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
- Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
- Sod shall be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period shall be approved by an agronomist or soil scientist prior to its installation.

B. Sod Installation

- During periods of excessively high temperature or in areas having dry subsoil, the subsoil shall be lightly irrigated immediately prior to laying the sod.
- The first row of sod shall be laid in a straight line with subsequent rows placed parallel and lightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
- Wherever possible, sod shall be laid with the long edges parallel to the contour and with staggering joints. Sod shall be rolled and tamped, pegged or otherwise secured to prevent slippage on slopes and to ensure solid contact between sod roots and the underlying soil surface.
- Sod shall be watered immediately following rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight hours.

C. Sod Maintenance

- In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4". Watering should be done during the heat of the day to prevent wilting.
- After the first week, sod watering is required as necessary to maintain adequate moisture content.
- The first mowing of sod should not be attempted until the sod is firmly rooted. No more than 1/3 of the grass leaf should be removed by the initial cutting or subsequent cutting or subsequent cuttings. Grass height shall be maintained between 2" and 3" unless otherwise specified.

SECTION IV - Turfgrass Establishment

Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance. Areas to receive seed shall be filled by disking or other approved methods to a depth of 2 to 4 inches, leveled and raked to prepare a proper seedbed. Stones and debris over 1/2 inches in diameter shall be removed. The resulting seedbed shall be in such condition that future mowing of grasses will pose no difficulty.

Note: Choose certified material is the best guarantee of cultivar purity. The certifications program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.

A. Turfgrass Mixtures

- Kentucky Bluegrass - Full sun mixture - For use in areas that receive intensive management irrigation required in the areas of central Maryland and eastern shore. Recommended certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds /100 square feet. A minimum of three bluegrass cultivars should be chosen ranging from a minimum of 10% to a maximum of 35% of the mixture by weight.

STANDARD SEDIMENT CONTROL NOTES

- All Grading Permits shall be obtained prior to the starting of any Grading work.
- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes steeper than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, and mulching (Sec. C). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis

Total area of site R/W and easements:	Parcel A-31	4,694 AC.±
	Parcel A-32	5,644 AC.±
	Total=	10,338 AC.±
Area disturbed.....		11,460 AC.±
Area to be roofed and paved:	Parcel A-31	3,330 AC.±
	Parcel A-32	3,890 AC.±
	Total=	7,220 AC.±
Area to be vegetatively stabilized.....		4,340 AC.±
Total cut.....		22,450 cu. yds.
Total fill.....		22,450 cu. yds.
Offsite waste/borrow area location.....		0 cu. yds.

Excess cut/spoil to be placed on a site with an approved sediment control plan and active grading permit.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.

Table 26 Temporary Seeding Rates, Depths, and Dates

SPECIES	MINIMUM SEEDING RATES	PLANTING DEPTH*	HARDINESS ZONES** AND SEEDING DATES*														
			6a and 7a						6a and 7b								
			2/1-4/30	5/1-8/14	8/15-11/30	3/1-4/30	5/1-8/14	8/15-11/30	3/1-5/31	5/1-7/31	8/1-10/31	3/1-5/31	5/1-7/31	8/1-10/31			
CHOICE ONE:																	
BARLEY	2.5 BU. (122 lbs)	2.80	1-2	X	-	10/15	X	-	10/15	X	-	X	-	X	-	X	-
RYE	3 BU. (94 lbs)	2.21	1-2	X	-	10/15	X	-	10/15	X	-	X	-	X	-	X	-
RYE GRASS	2.5 BU. (140 lbs)	3.22	1-2	X	-	10/15	X	-	10/15	X	-	X	-	X	-	X	-
BARLEY OR RYE GRASS	150 lbs	3.45	1	X	X	10/15	X	X	10/15	X	X	X	X	X	X	10/15	X
FOXTAIL MILLET*																	
KEEPING LOVEGRASS	4 lbs	.09	1/4-1/2	-	X	-	-	-	X	-	-	-	-	X	-	-	-
ANNUAL RYEGRASS	50 lbs	1.15	1/4-1/2	X	-	11/1	X	-	11/1	X	-	-	-	-	-	8/15	-
MILLET*	50 lbs	1.15	1/2	-	X	-	-	-	X	-	-	-	-	X	-	-	-

Temporary Seeding Summary

Fertilizer Rate (10-20-20)	Lime rate
800 lb/acre (15 lb/1000 sq ft)	2 tons/acre (100 lb/1000 sq ft)

Permanent Seeding Summary

Fertilizer Rate (10-20-20)	Lime rate
90 lb/acre (2.0 lb/1000 sq ft)	175 lb/acre (46 lb/1000 sq ft)
175 lb/acre (46 lb/1000 sq ft)	175 lb/acre (46 lb/1000 sq ft)
2 tons/acre (100 lb/1000 sq ft)	

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: June 3, 1999

ADDRESS CHART

PARCEL NO. 1 STREET ADDRESS	
A-31	BUILDING #4 8825 STANFORD BOULEVARD
A-32	BUILDING #5 8890 MCGAW ROAD
A-32	BUILDING #6 8880 MCGAW ROAD
SUBDIVISION NAME	SECTION/AREA
COLUMBIA CORPORATE PARK	1/1
PARCEL NUMBERS	A-31 & A-32
PLAT NO. BLOCK NO. ZONE TAX/ZONE ELECT. DIST. CENSUS TR.	
8787 24 EC-IND 36 6 6067-03	
WATER CODE E06	SEWER CODE 5333000

SEDIMENT CONTROL NOTES

FOR

COLUMBIA CORPORATE PARK

PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: R.A.M.
DRAWN BY: D.T.A.
CHECKED BY: R.A.M.
APPRD. BY: RAL
DATE: 06-04-99
SCALE: AS SHOWN

PROJECT # 98B055
DRAWING: ECb05503
XREFS: XRB05510 XRB05502

13 SHEET OF 17

Barakos-Landino Design Group

ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS

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(203) 630-2615 Fax

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Linthicum, MD 21090
(410) 859-9100

210 West 70th Street, Suite 604
New York, NY 10023

2933 North Front Street, Suite 1
Harrisburg, PA 17110
(717) 221-9744

900 Parish Street, Suite 201
Pittsburgh, PA 15220
(412) 928-3060

80 Washington Street, Suite 310
Poughkeepsie, NY 12601
(888) 830-9272

3957 Westerre Parkway
Richmond, VA 23233
(800) 301-3077

OWNER / DEVELOPER

MERRITT - OSP IV, LLC
MERRITT - OSP V, LLC
BH ROBB IV LIMITED PARTNERSHIP C/O

MERRITT

2066 Lord Baltimore Drive
Baltimore, Maryland 21207
(410) 298-2600

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

APPROVED: *Cheryl Simon* / *7/7/99*
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED: *Yvette Al* / *7/7/99*
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James A. White / *7/23/99*
DIRECTOR

Richard Blood / *7/23/99*
CHIEF, DIVISION OF LAND DEVELOPMENT

Mike Danvers / *7/14/99*
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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: *Robert A. Landino* DATE: *6/30/99*
NAME: *Robert A. Landino* PE# *28714*

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: *Gay J. Smith* DATE: *4/30/99*
NAME: *GARY JOHN SMITH - Merritt Corp.*

Table 25 Permanent Seeding for Low Maintenance Areas

MIX	SEED MIX (USE CERTIFIED MATERIAL IF AVAILABLE)	PLANTING LBS/AC	LBS/1000 SQ FT	SITE CONDITIONS	USDA HARDINESS ZONES		RECOMMENDED PLANTING DATES*					NOTES
					3/15	5/15	5/15-8/14	6/2-7/31	8/1-10/1	10/15-11/15	11/15	
1	TALL FESCUE (75%), CANADIAN BLUEGRASS (10%), KENTUCKY BLUEGRASS (10%), REDTOP (5%)	150	3.4	MOIST TO DRY	5b	X			X			A
					6a	X	X		X			
					7b	X				X		
2	KENTUCKY BLUEGRASS (50%), CREEPING RED FESCUE OR A HARD FESCUE (40%), REDTOP (10%)	150	3.4	MOIST TO MODERATELY DRY TO DRY	5b	X	X		X			B
					6a	X	X		X			
					7b	X				X		
3	TALL FESCUE (60%), PERENNIAL RYEGRASS (10%), KENTUCKY BLUEGRASS (30%)	125	2.8	MOIST TO DRY	5b	X	X		X			C
					6a	X	X		X			
					7b	X				X		
4	RED FESCUE OR CHEWINGS FESCUE (80%), PERENNIAL RYEGRASS (20%)	60	92	MOIST TO DRY	5b	X	X		X			D
					6a	X	X		X			
					7b	X				X		
5	TALL FESCUE (65%), PERENNIAL RYEGRASS (50%), PLUS CROWNVETCH OR FLATPEA	110	2.5	MOIST TO DRY	5b	X	X		X			E
					6a	X	X		X			
					7b	X				X		
6	NEEPING LOVEGRASS (17%), SERICIA LESPEDEZA (83%)	4	0.9	DRY TO VERY DRY	5b	X	X		X			F
					6a	X	X		X			
					7b	X				X		
7	TALL FESCUE (83%), NEEPING LOVEGRASS (2%) PLUS SERICIA LESPEDEZA (15%)	110	3	DRY TO VERY DRY	5b	X	X		X			G
					6a	X	X		X			
					7b	X				X		
8	NEEPING LOVEGRASS (70%), REDTOP (30%) PLUS BIRDFOOT TRIFOLIUM (10%)	40	82	WET TO MODERATELY DRY	5b	X	X		X			H
					6a	X	X		X			
					7b	X				X		
9	TALL FESCUE (85%), BIRDFOOT TRIFOLIUM (15%), BIRDFOOT TRIFOLIUM (15%)	125	2.8	WET TO MODERATELY DRY	5b	X	X		X			I
					6a	X	X		X			
					7b	X				X		
10	TALL FESCUE (60%), HARD FESCUE (20%)	120	30	WET TO DRY	5b	X	X		X			J
					6a	X	X		X			
					7b	X				X		
11	HARD FESCUE (100%)	75	1.7	MOIST TO DRY	5b	X	X		X			K
					6a	X	X		X			
					7b	X				X		

A. USED BY SHA ON SLOPE AREAS. ADD A LEAGUE FOR SLOPES > THAN 3:1.
 B. USED IN MEDIAN AREAS BY SHA. SHADE TOLERANT.
 C. POPULAR MIX - PRODUCES PERMANENT GROUNDCOVER QUICKLY. BLUEGRASS THICKENS STAND.
 D. BEST USE ON ROADSIDES. NOT ON TOBACCO PLANTS.
 E. USE ON LOW MAINTENANCE, STEEP SLOPES. USE TALL FESCUE IN DRAUGHTY COND. CROWN VETCH BEST FOR 5b, 6a, 6b.
 F. BEST FOR SEEDING IN MID-SUMMER.
 G. NEEPING LOVEGRASS MAY BE SEEDING WITH TALL FESCUE IN MID-SUMMER. SERICIA LESPEDEZA IS BEST SITED FOR ZONES 7b AND 7c.
 H. USE OF COOLY DRAINED SOILS - DITCHES OR WATERWAYS. BIRDFOOT TRIFOLIUM BEST FOR ZONES 5b, 6a, above 2000 FT.
 I. USE IN AREAS OF MOST SHADE. POA TRIVIALIS THRIVES IN WET SHADE AREAS.
 J. TALL FESCUE MAY BE SEEDING ALONG THE HARD FESCUE PROVIDED BETTER SHADE TOLERANCE AND PRODUCES A BETTER STAND.
 K. LOW FERTILITY GRASS. REQUIRES INFREQUENT MOWING, GOOD COMPANION FOR WILDFLOWERS.

Table 27 Geotextile Fabrics

CLASS	APPROXIMATE OPENING SIZE, MAX.	GRAB TENSILE STRENGTH, LB. MIN.	BURST STRENGTH, PSI. MIN.
A	0.30**	250	500
B	0.60	200	320
C	0.30	200	320
D	0.60	90	145
E	0.30	90	145
F (SILT FENCE)	0.40-0.80*	90	

* US Std sieve CW-2215 ** .50 mm. max. for Super Silt Fence

The properties shall be determined in accordance with the following procedures:
 -Apparent opening size MSMT 322
 -Grab tensile strength ASTM D 1682; 4x8" specimen, 1/2" clamps, 12"/min. strain rate in both principal directions of geotextile fabric.
 -Burst strength ASTM D 3786

The fabric shall be inert to commonly encountered chemicals and hydrocarbons, and will be rot and mildew resistant. It shall be manufactured from fibers consisting of long chain synthetic polymers, and composed of a minimum of 80% by weight of polyolefins, polyesters, or polyamides. The geotextile fabric shall resist deterioration from ultraviolet exposure. In addition, Classes A through E shall have a 0.01 cm/sec. minimum permeability when tested in accordance with MSMT 507, and an apparent minimum elongation of 20 percent (20%) when tested in accordance with the grab tensile strength requirements listed above.

SILT FENCE
 Class F Geotextile Fabrics for silt fence shall have a 50 lb./in. minimum tensile strength and a 20 lb./in. minimum tensile modulus when tested in accordance with MSMT 509. The material shall have a 0.3 gal./ft./min. flow rate and seventy-five percent (75%) minimum filtering efficiency when tested in accordance with MSMT 322.

Geotextile fabrics used in the construction of silt fence shall resist deterioration from ultraviolet exposure. The fabric shall contain sufficient amounts of ultraviolet ray inhibitors and stabilizers to provide a minimum of 12 months of expected usable construction life at a temperature range of 0 to 120 degrees F.

NO.	REVISION	DATE

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: *Robert A. Lanning* DATE: 6/29/99
 NAME: Robert A. Lanning PE# 26714

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: *Gay S. Swisher, J. Merritt, Inc.* DATE: 6/29/99
 NAME: Gay S. Swisher, J. Merritt, Inc.

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
A-31	BUILDING #4 8825 STANFORD BOULEVARD
A-32	BUILDING #5 8890 MCGAW ROAD
A-32	BUILDING #6 8880 MCGAW ROAD

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBERS
COLUMBIA CORPORATE PARK	1/1	A-31 & A-32

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
6475	24	N.T.	36	6	6067-03

WATER CODE E06 SEWER CODE 5333000

SEDIMENT CONTROL DETAILS
 FOR
COLUMBIA CORPORATE PARK
 PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: R.A.M.
 DRAWN BY: D.T.A.
 CHECKED BY: R.A.M.
 APPRD. BY: R.A.L.
 DATE: 06-04-99
 SCALE: AS SHOWN

PROJECT # 98B055
 DRAWING: EcB05504
 XREFS: XRB05510 XRB05502
 14 SHEET OF 17

Barokos-Landino Design Group
 ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS

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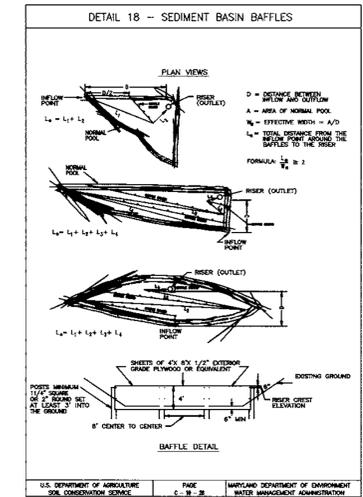
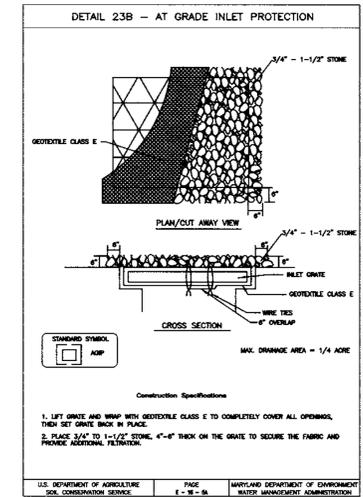
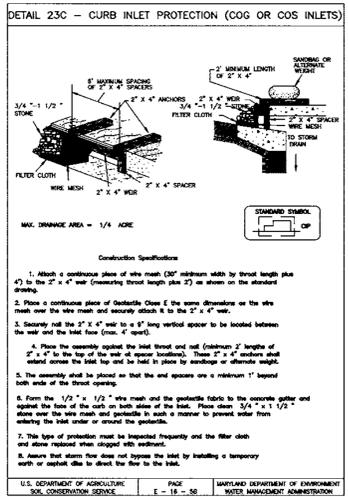
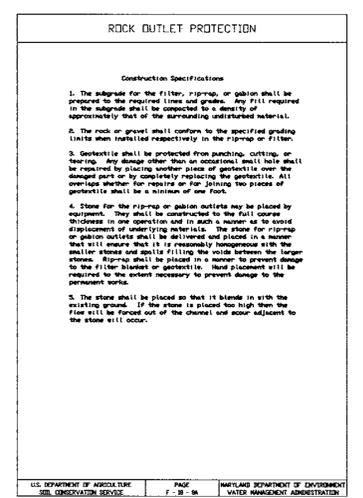
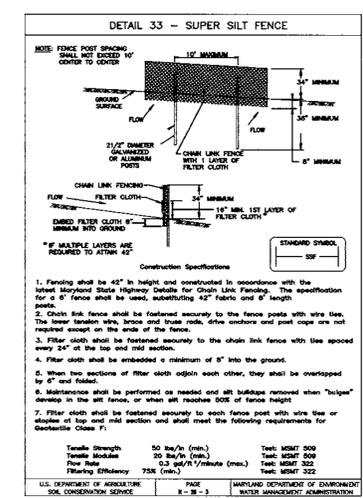
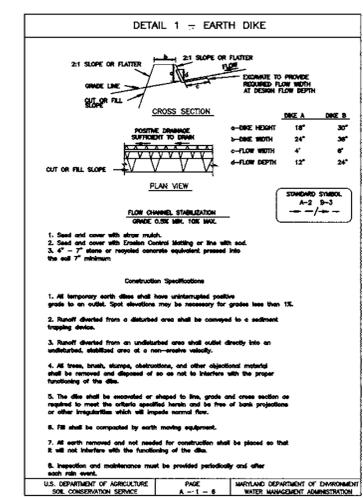
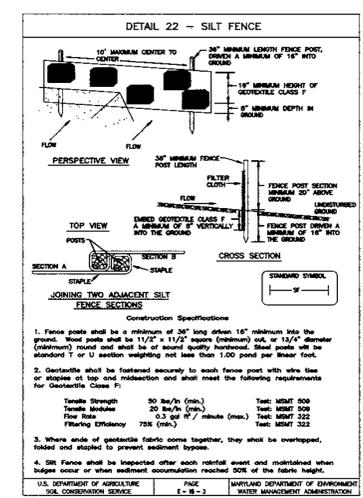
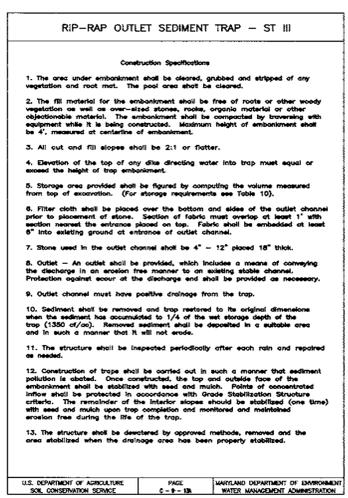
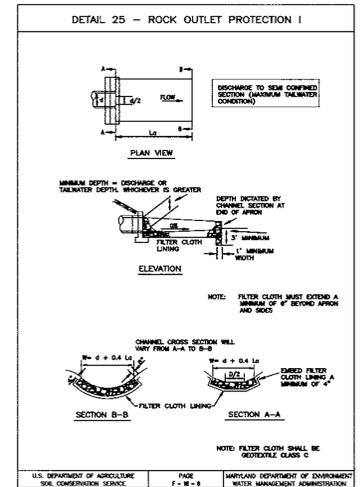
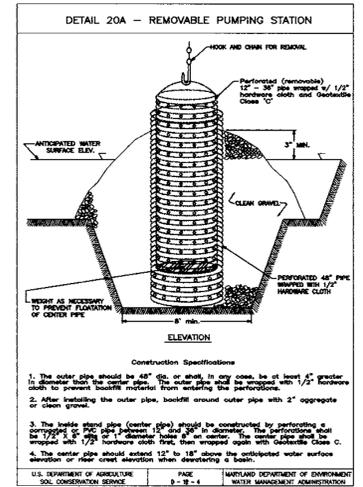
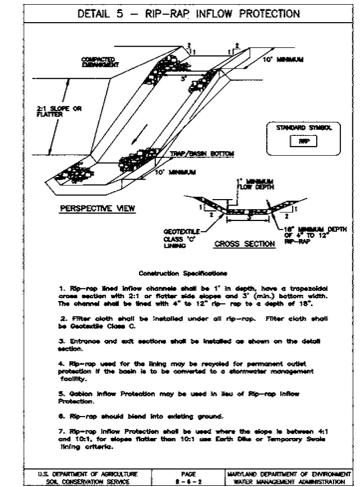
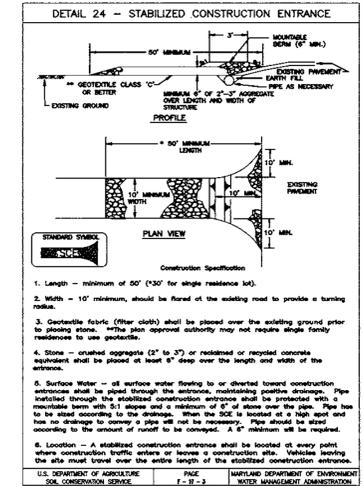
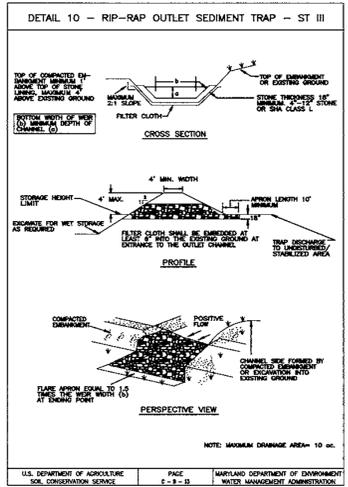
210 West 70th Street, Suite 604
 New York, NY 10023

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 Harrisburg, PA 17110
 (717) 221-9744

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 (888) 830-9272

3957 Westerre Parkway
 Richmond, VA 23233
 (800) 301-3077



OWNER / DEVELOPER
 MERRITT - CCP IV, LLC
 MERRITT - CCP IV, LLC
 2066 Lord Baltimore Drive
 Baltimore, Maryland 21207
 (410) 298-2600

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

Carol Simms 7/2/99
 USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

Mark A. Lanning 7/7/99
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

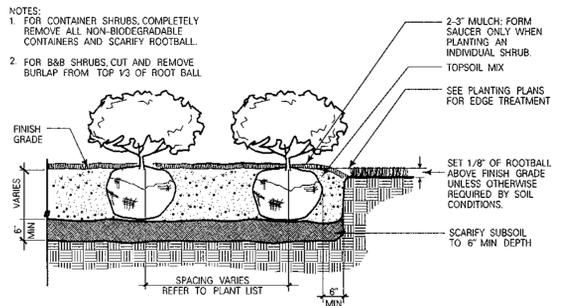
Robert A. Lanning 7/23/99
 DIRECTOR

Richard Blood 7/23/99
 CHIEF, DIVISION OF LAND DEVELOPMENT

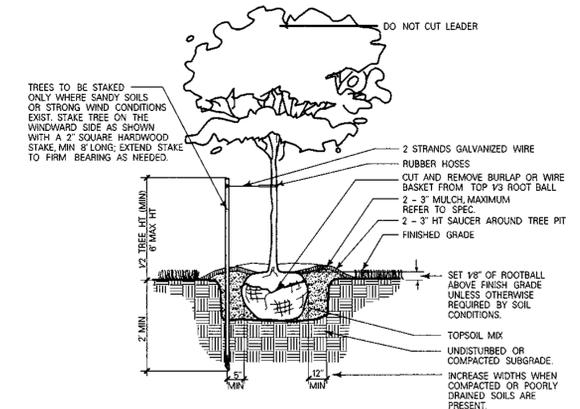
Mark A. Lanning 7/14/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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Fax 301 . 498 . 5070

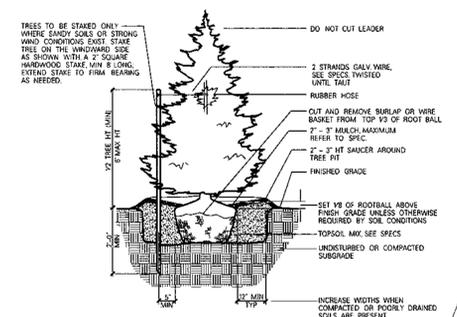
Urban Design
Landscape Architecture
Graphic Design
Environmental Sciences



1 SHRUB BED PLANTING
NOT TO SCALE



2 DECIDUOUS TREE PLANTING
NOT TO SCALE



3 EVERGREEN TREE PLANTING
NOT TO SCALE

QTY	SYM	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
48	A	Acer rubrum 'October Glory' October Glory Red Maple	2-1/2" - 3" cal. 12" - 14" ht.	B & P
32	F	Fraxinus pennsylvanica 'Marshall's Seedless' Marshall's Seedless Green Ash	2-1/2" - 3" cal. 12" - 14" ht.	B & P
20	G	Gleditsia triacanthos 'Imperial' Imperial Thornless Honeylocust	2-1/2" - 3" cal. 12" - 14" ht.	B & P
31	F	Prunus yedoensis Yoshino Cherry	2" - 2-1/2 cal. 6" - 10" ht.	B & P
6	C	Caryinus caroliniana American Hornbeam	2" - 2-1/2 cal. 6" - 10" ht.	B & P
26	N	Pinus nigra var. austriaca Austrian Pine	2" - 2-1/2 cal. 6" - 8" ht.	B & P

CCP Building 4 - Schedule A
Perimeter Landscape Edge

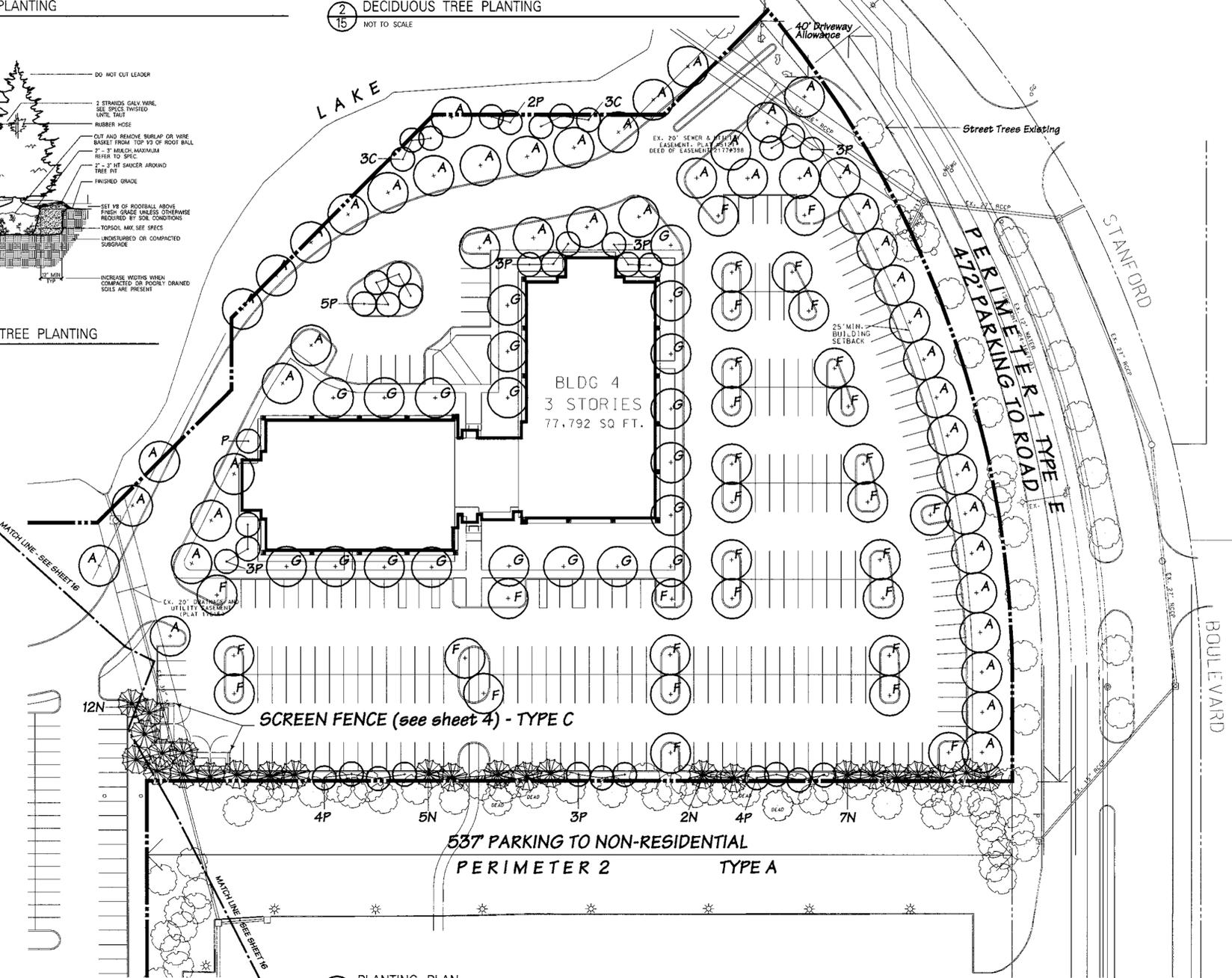
Category	Adjacent to Roadway	Adjacent to Property	Loading
Landscape Type	Type E Parking	Type A Non - Res.	Type C Non - Res.
Linear Feet of Roadway Frontage/Perimeter	472'	537'	86'
Credits for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	NO	NO	NO
Credits for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	YES (472' L.F.)	NO	YES 36' L.F. screen fence
Number of Plants Required			
Shade Tree	12 (140)	9 (160)	2 (140)
Evergreen Tree	0	0	6 (120)
Shrub	110 (14)	0	0
Number of Plants Provided			
Shade Tree	17	0	0
Evergreen Tree	0	16	10
Other Trees (2:1 substitution)	0	11	0
Shrub (10:1 substitution or berm)	0 (Berm)	0	0

CCP Building 4 - Schedule B
Parking Lot Internal Landscaping

Number of Parking Spaces	266
Number of Trees Required	15
Number of Trees Provided	24
Shade Tree	0
Other Trees (2:1 substitution)	0

GENERAL PLANTING NOTES

- All plant material shall conform to the sizes given in the plant list and shall be nursery grown in accordance with the "American Standard for Nursery Stock", latest edition.
- All planting shall be in accordance with standard American Association of Nurserymen procedures and specifications.
- Contractor shall verify the correct location of all underground utilities in the field prior to installation of any plant material.
- Plant material location to be staked in the field and approved by the Landscape Architect prior to planting.
- All plants shall be mulched to a depth of 3" unless otherwise noted on drawing or specifications.
- All disturbed areas shall be fine graded and seeded or sodded as noted on Planting Plan.
- All plant beds shall be contained with a spaced edge unless otherwise noted on drawing.
- Obtain approval from Landscape Architect or Owner's Representative before making any substitutions or changes.
- Quantities shown on plant list are for the Contractor's convenience only and are not guaranteed to be accurate. In the event of a discrepancy between quantities shown on the plan and quantities shown on the plant list, the quantities on the plan shall apply.
- Prior to mulching and planting the pre-emergent Treflan shall be applied to the areas to be mulched as specified around trees and shrubs.
- The base information provided by Barakoo - Landino design and is assumed to be accurate.
- 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.



4 PLANTING PLAN
SCALE: 1" = 40'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: JUNE 3, 1999

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/2/99
7/2/99

[Signature] 7/2/99
7/2/99

[Signature] 7/14/99
7/14/99

Sheet Title

MINIMUM LANDSCAPE PLAN FOR
COLUMBIA CORPORATE
PARK BLDG. 4

Project Number 24120.06
Scale: 1" = 40' - 0" Date: 2/14/99
Drawn By: D.L. Checked By: C.B.

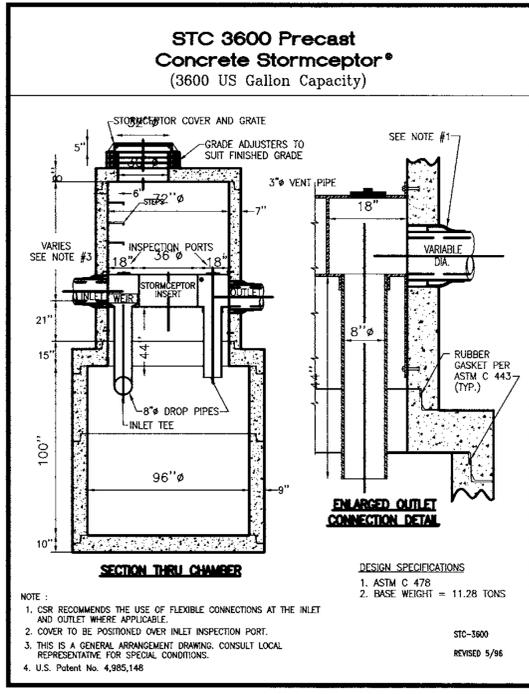
Sheet Number

HRD Landscape Requirements

Number of Acres in Parcel	4.7
Required 32 trees/Acre	150 trees
Substitution of 2 evergreen/ ornamental trees per 1 shade tree for 25% of shade trees	25 x 150 = 36 36 x 2 = 76
Ornamental/Evergreen Trees Required	76
Shade Trees Required	150
Shade Trees Provided	100

NOTE: The number of trees provided is less than the required number of trees to maintain minimum spacing for sound horticultural practice.





Concrete Stormceptor Order Request Form

Office Use Only
Order # _____
Date _____
Internal Scale _____

SC-1

Contractor Information
Name _____
Address _____
City _____
State _____
Zip Code _____
Contract _____
Phone _____
Fax _____

Owner Information
Name: MERRITT CORP.
Phone: (410) 298-2600
Fax: (410) 298-9644

Stormceptor Model
900 3600
1200 4800
1800 6000
2400 7200

Insert Size
22"
32"
44"
Custom _____

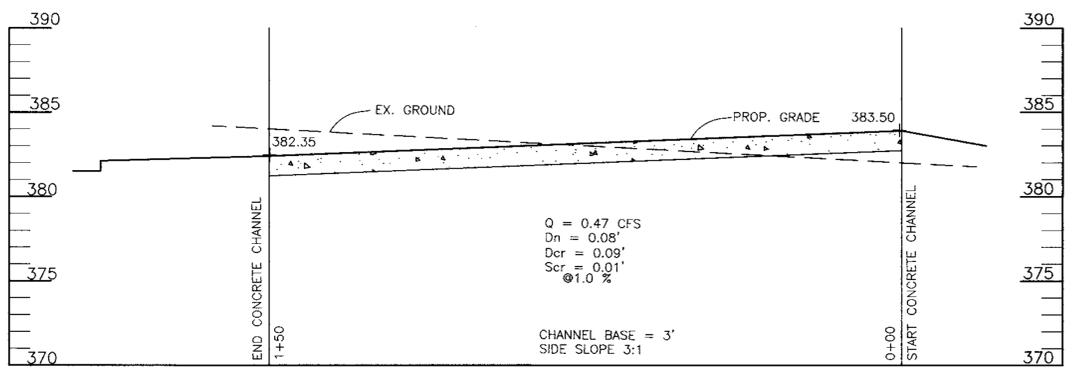
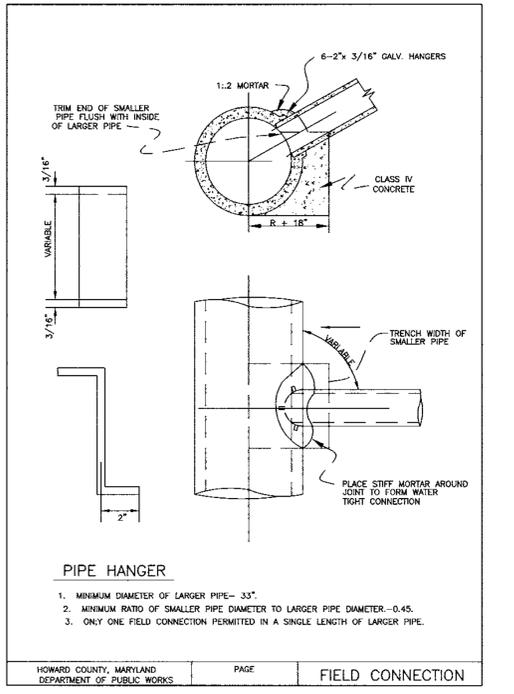
Manhole Number SC-1
Top Elevation (ft) 378.64
Inlet Pipe Invert (ft) 386.58
Outlet Pipe Invert (ft) 386.50
Pipe Type RCCP
Pipe Inside Diameter (in) [ID] 30"
Pipe Outside Diameter (in) [OD] 37"

Project Name COLUMBIA CORPORATE PARK
Approximate time frame until required delivery (weeks) xxx
Delivery Address: Street 8890 MCGAW ROAD
City COLUMBIA **State** MARYLAND **Zip Code** 21246
Designer Company BARAKOS-LANDINO DESIGN GROUP
Designer Contact RANDY MOHR **Phone** (410) 859-9100 **Fax** (410) 859-9958

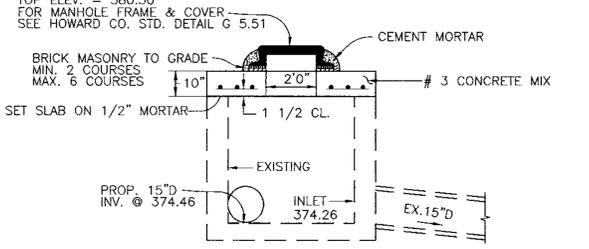
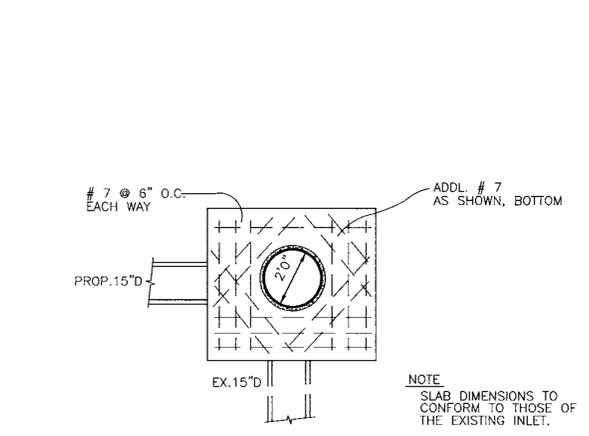
Please fax this sheet back to Hydro Conduit/Virginia Precast at (804) 798-3426
Attn: Dave Brinser / Ed O'Malley (Phone: 1-800-999-2278)

For credit information/applications contact Carole Broadus at (804) 798-8068
For Technical Assistance Please Call Stormceptor Corporation
at (301) 762-8361 or toll free at 1 (800) 762-4703

* TO BE INCLUDED ON SWM PLAN BY DESIGNER *

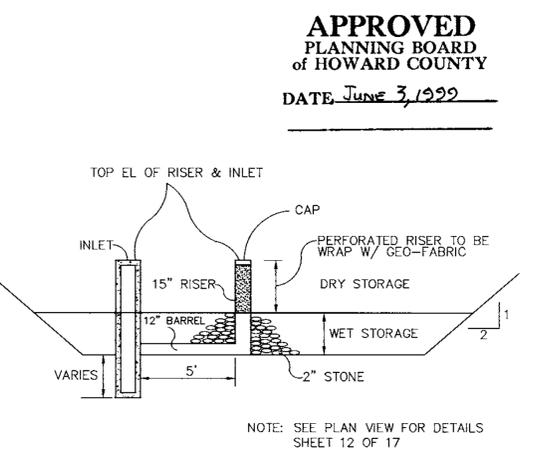


CONCRETE CHANNEL PROFILE
SCALE: HORZ. 1"=20'
VERT. 1"=5'



INLET CAPPING DETAIL FOR EX. I-14
NTS

TYPICAL CANTILEVERED RETAINING WALL
NOT TO SCALE



INLET SEDIMENT TRAP SECTION VIEW
N.T.S.

STORMCEPTOR ORDER INFORMATION

STORMCEPTOR MODEL:3600
INSERT SIZE - (DIAMETER/HEIGHT): 6"/22"
STRUCTURE:SC-1
TOP ELEVATION:378.64
INLET PIPE INVERT:386.58
OUTLET PIPE INVERT:386.50
PIPE SIZE:30" RCCP CL III

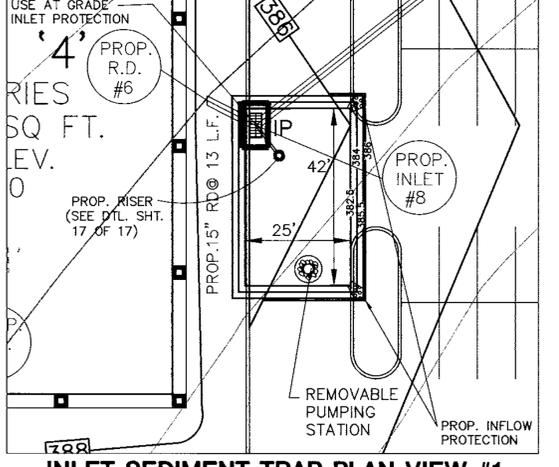
NOTE:
SEE DRAINAGE AREA MAP FOR CONTRIBUTING IMPERVIOUS AREA TO STORMCEPTOR.

AREAS: M.....=0.24 AC +/-
N.....=0.31 AC +/-
O.....=1.06 AC +/-
P.....=0.97 AC +/-
TOTAL IMPERVIOUS AREA.....=2.58 AC +/-

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

NO.	REVISION	DATE

7/23/99
7/23/99
7/14/99



INLET SEDIMENT TRAP PLAN VIEW #1
SCALE: 1"= 20'

OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY STRUCTURE

THE STORMCEPTOR WILL BE VISUALLY INSPECTED ANNUALLY FOR THE PRESENCE OF OIL AND FUEL AND SEDIMENT BY REMOVING THE MANHOLE COVER. ANY OBSTRUCTIONS WILL BE CLEARED. THE SEDIMENT IS TO BE REMOVED WHEN THE SEDIMENT DEPTH REACHES 2.0 FEET (FOR STC 3600).

REMOVAL OF THE MATERIALS IS TO BE PERFORMED BY A LICENSED WASTE MANAGEMENT COMPANY AND DISPOSAL IN ACCORDANCE WITH CURRENT REGULATIONS.

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.

THE OWNER SHALL RETAIN AND MAKE THE STORMCEPTOR INSPECTION/ MONITORING FORMS AVAILABLE TO HOWARD COUNTY OFFICIALS UPON THEIR REQUEST.

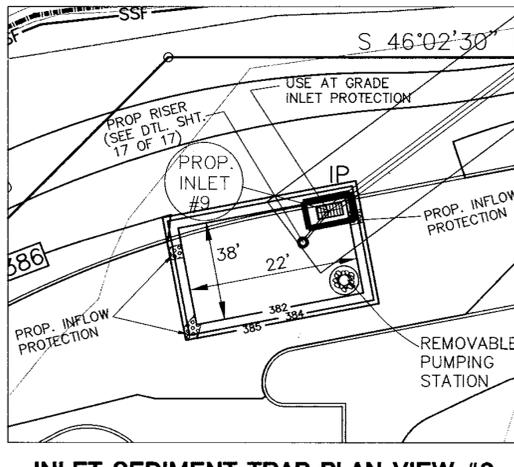
ADDRESS CHART

PARCEL NO.	STREET ADDRESS
A-31	BUILDING #4 8825 STANFORD BOULEVARD
A-32	BUILDING #5 8890 MCGAW ROAD
A-32	BUILDING #6 8880 MCGAW ROAD

SUBDIVISION NAME: COLUMBIA CORPORATE PARK SECTION/AREA: 1/1 PARCEL NUMBERS: A-31 & A-32

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
13781	24	N.T.	36	6	6067-03

WATER CODE E06 SEWER CODE 5333000



INLET SEDIMENT TRAP PLAN VIEW #2
SCALE: 1"= 20'

PROFILES FOR COLUMBIA CORPORATE PARK

PARCELS A-31 & A-32

O.P.Z. FILE NOS.: S-87-24, P-87-43, F-72-90C, F-91-130, F-89-248, F-88-109, F-93-90, F-95-52, FDP 117A-1

TAX MAP #36 PARCELS A-31 & A-32
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: R.A.M.
DRAWN BY: J.E.T.
CHECKED BY: R.A.M.
APPRD. BY: R.A.L.
DATE: 06-04-99
SCALE: AS SHOWN

PROJECT # 98B055
DRAWING: DSB05504.DWG
XREFS: XRB05510
XRB05502
17 SHEET OF 17

Barakos-Landino Design Group
ENGINEERS/PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS
355 Research Parkway Meriden, CT 06450 (203) 630-1406 (203) 630-2615 Fax
849 International Drive, Suite 215 Linthicum, MD 21090 (410) 859-9100
210 West 70th Street, Suite 604 New York, NY 10023
2933 North Front Street, Suite 1 Harrisburg, PA 17110 (717) 221-9744
900 Parish Street, Suite 201 Pittsburgh, PA 15220 (412) 928-3060
80 Washington Street, Suite 310 Poughkeepsie, NY 12601 (888) 830-9272
3957 Westester Parkway Richmond, VA 23233 (800) 301-3077

OWNER / DEVELOPER

MERRITT - COP IV, LLC
MERRITT - COP V, LLC
84 ROBB IV LIMITED PARTNERSHIP C/O

MERRITT
2066 Lord Baltimore Drive
Baltimore, Maryland 21207
(410) 298-2600

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

Cheryl Simon 7/1/99
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Yuh Ali 7/1/99
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Richard Blood 7/23/99
DIRECTOR

Richard Blood 7/23/99
CHIEF, DIVISION OF LAND DEVELOPMENT 2

Cheryl Simon 7/14/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

STATE OF MARYLAND
ROBERT W. MANN
PROFESSIONAL ENGINEER
6/30/99