CHK: V.L.D.

DATE: MAY, 2001 | BY

DATE

**REVISION** 

LAND PLANNING & SURVEYING CONSTRUCTION SERVICES

20 RIDGELY AVENUE

ANNAPOLIS, MARYLAND 21401

(410) 267-8621

ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY

PARCEL NUMBER

STREET ADDRESS

5001 MEADOWBROOK LANE

N 575575 80

E 1363163.50

ELEV.=370.70

VICINITY MAP

SCALE: 1"=2000'

ADC LIC.#21097504

DESCRIPTION

ELEV.=386.52

period November 1 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible

mulch immediately after application using mulch anchoring tool or

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR

AN	SEDIMENT CONTROL FOR RATE AND METHODS NOT	
	AREA OF PARCEL	_ 76.37 AC./3,326,677.20 S.F.
	FLOODPLAIN AREA	_ 34.80 AC./1,515,934.35 S.F.
	DISTURBED AREA	_ 33.80 AC./1,472,445.5 S.F.
	PRESENT ZONING	_ R-20
	EXISTING USE	_ PASSIVE PARK
	BUILDING COVERAGE (EX.)	_ 0.02 AC./955.43 S.F.
	STORAGE BUILDING (TO BE REMOVED)	_ 0.02 AC./830.66 S.F.
	PROPOSED USE	RECREATIONAL PARK

SITE DEVELOPMENT PLAN

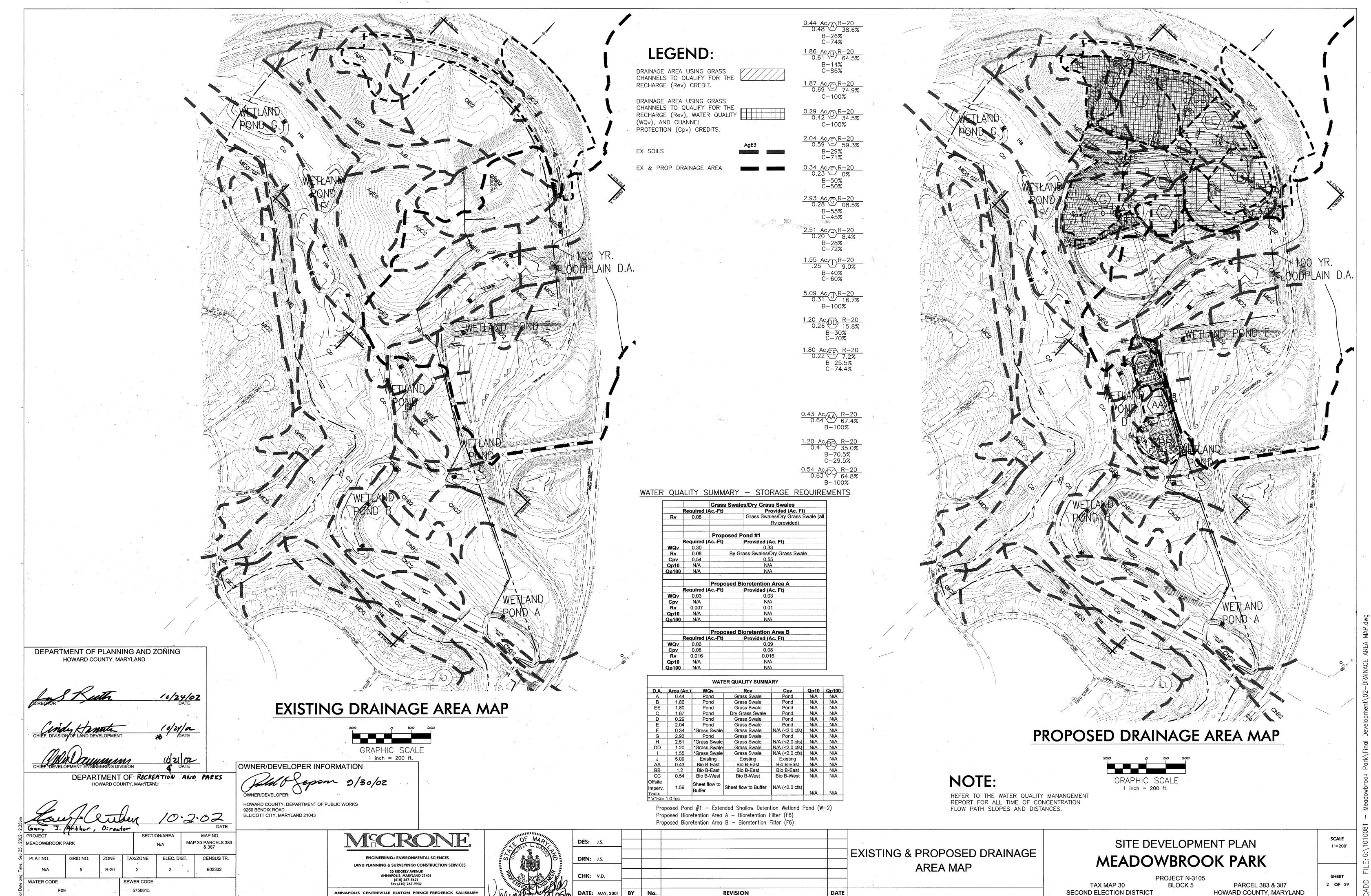
BLOCK 5

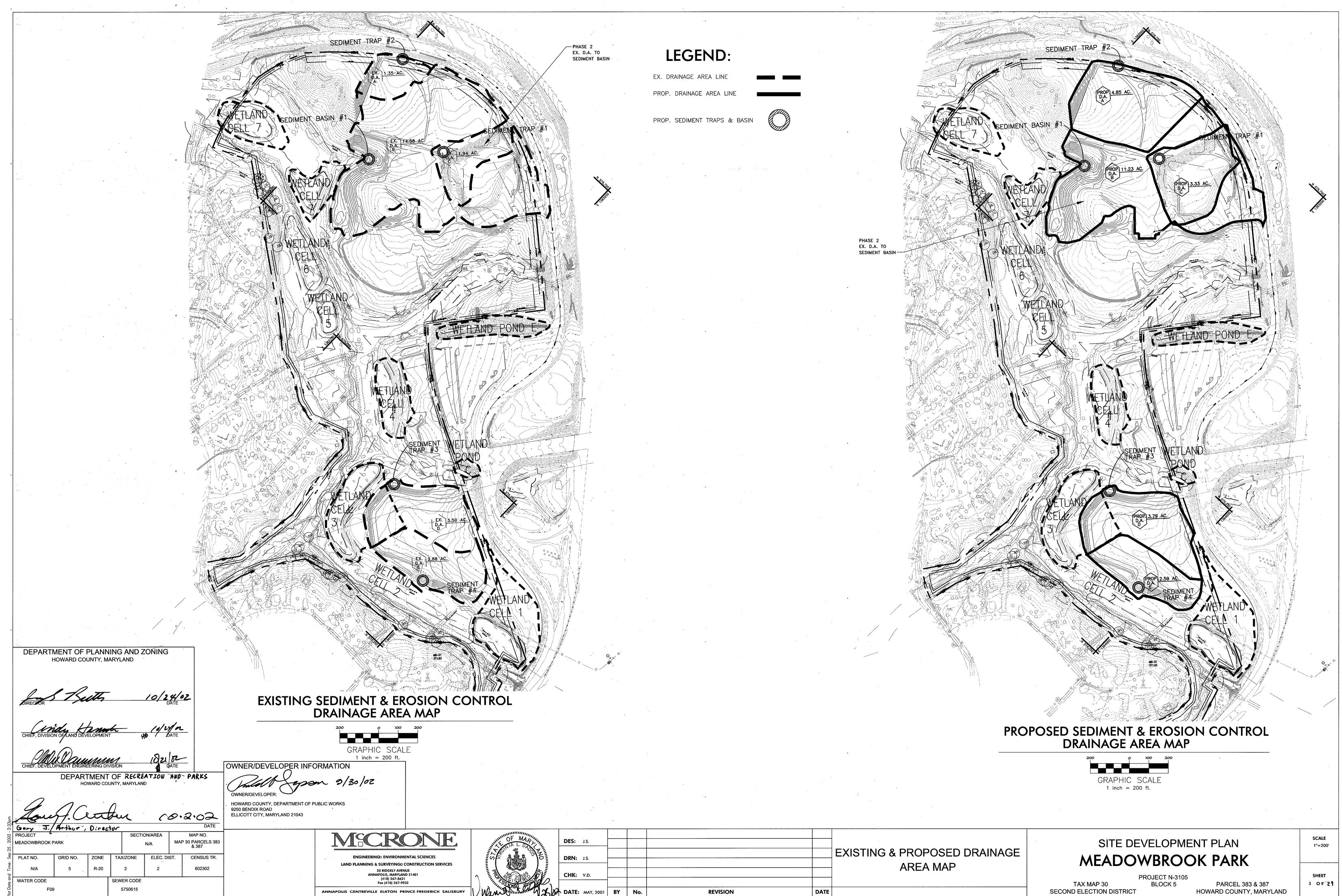
TAX MAP 30 SECOND ELECTION DISTRICT PROJECT # N-3105 PARCELS 383 & 387 HOWARD COUNTY, MARYLAND

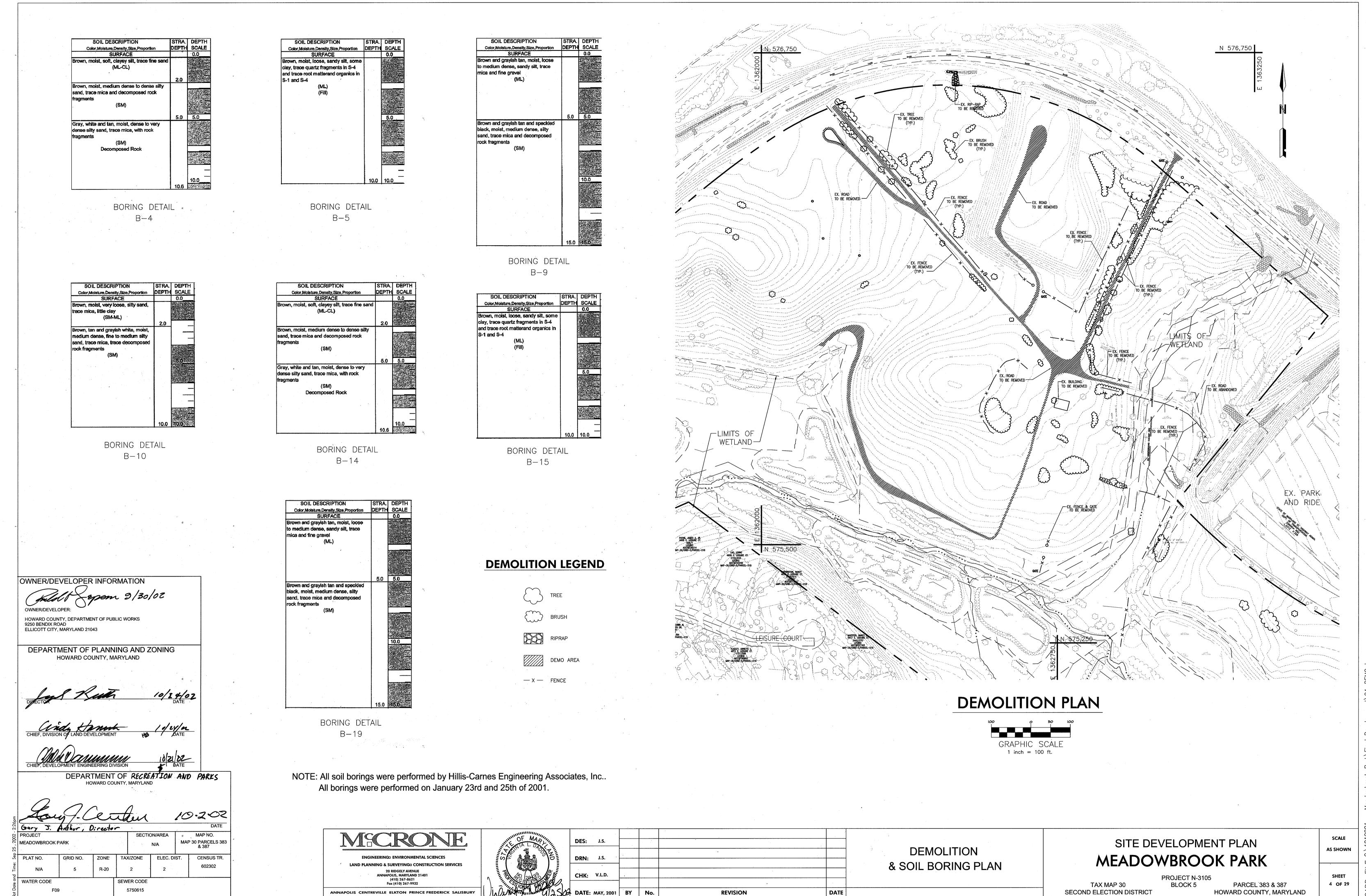
SDP-01-145

**AS SHOWN** 

1 OF 29







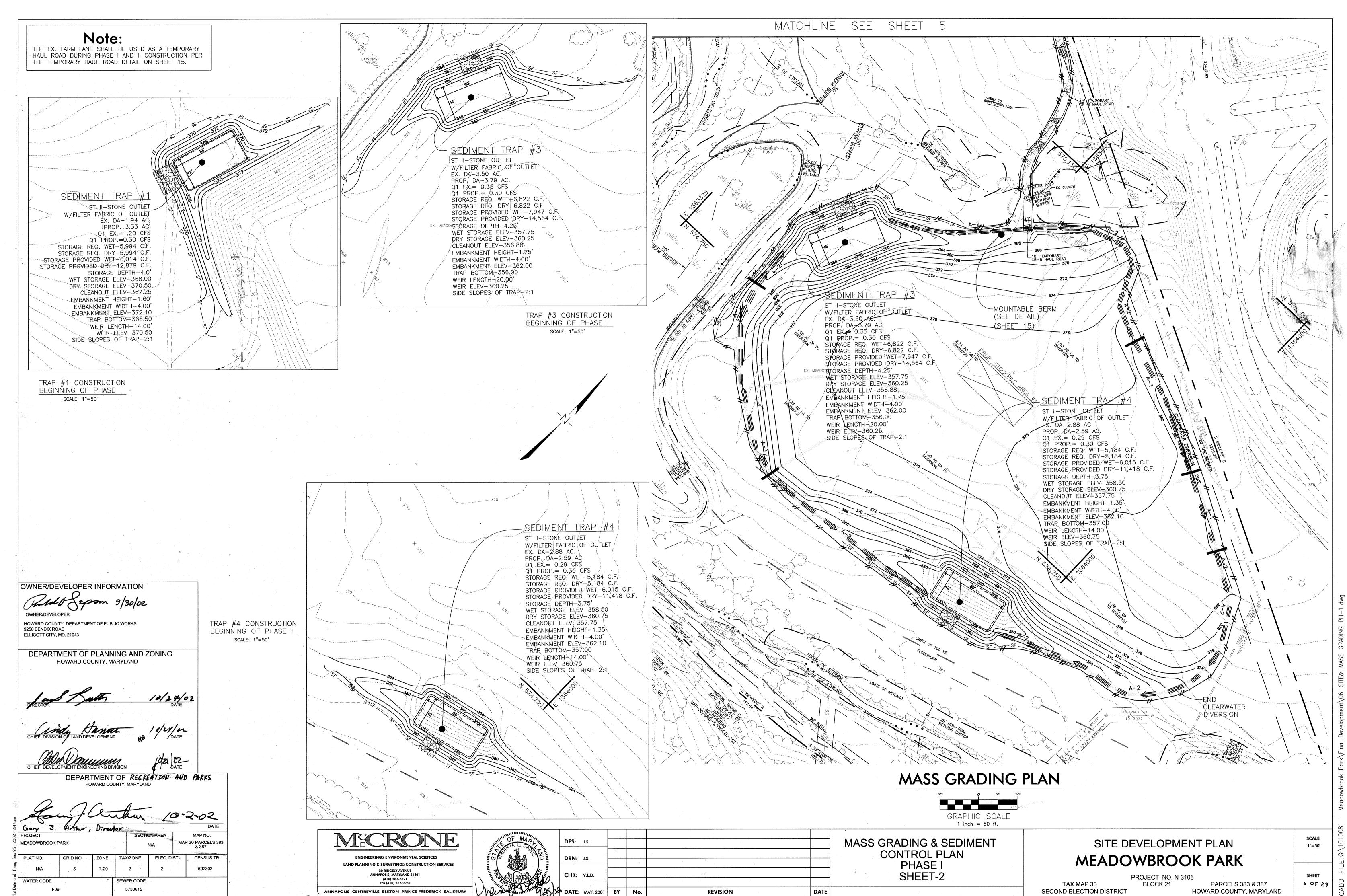
DATE

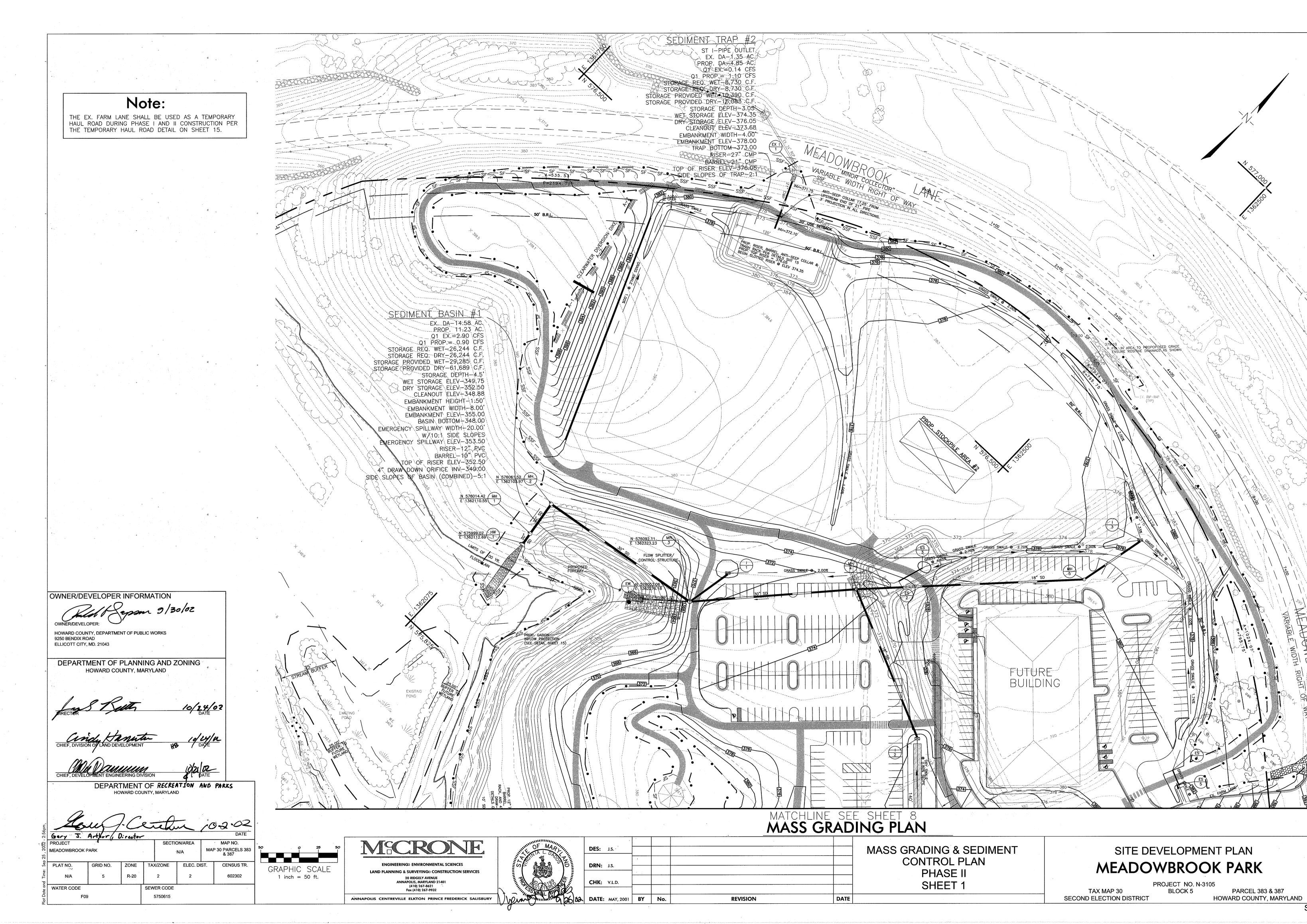
**REVISION** 

SDP- 01-145

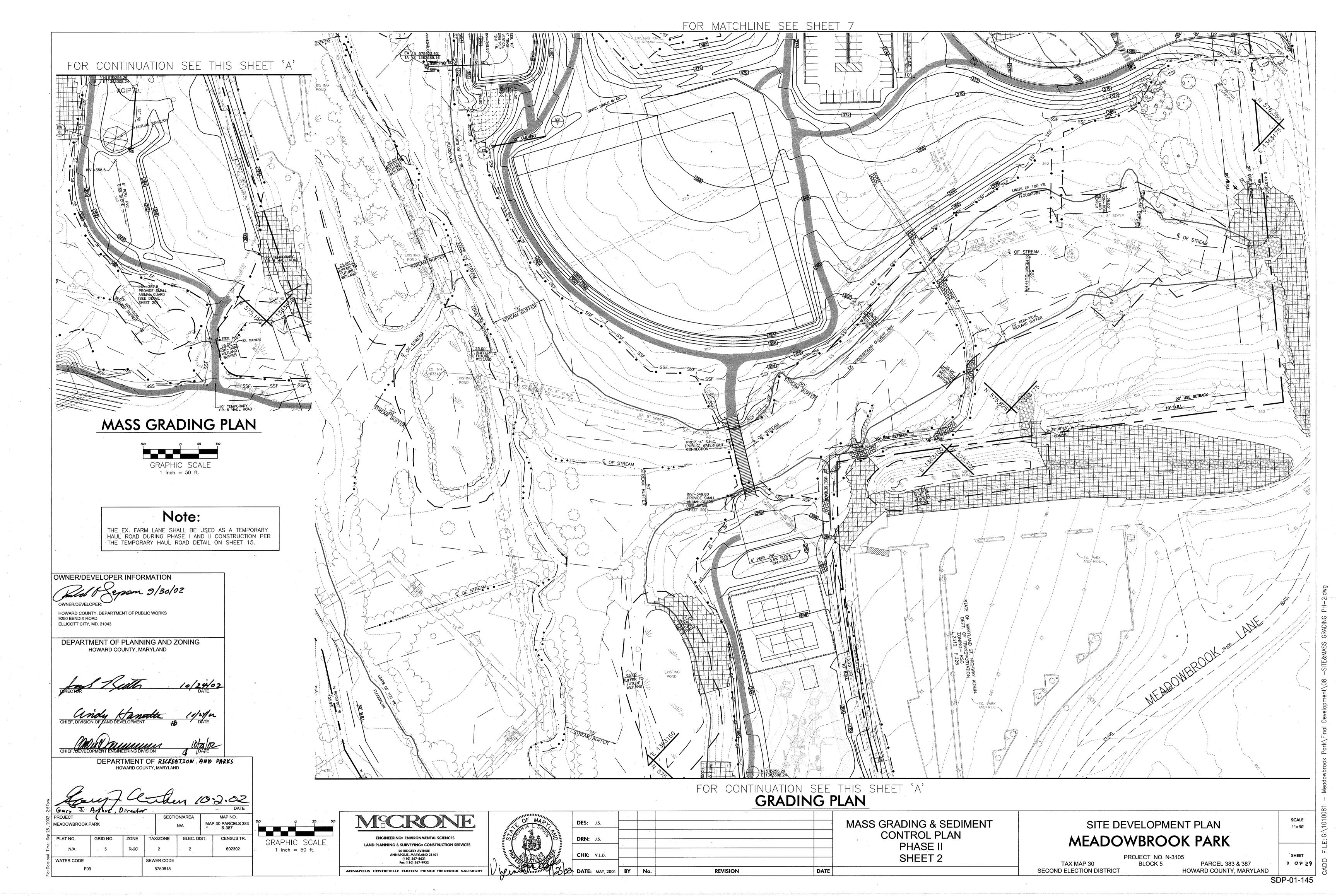
SECOND ELECTION DISTRICT





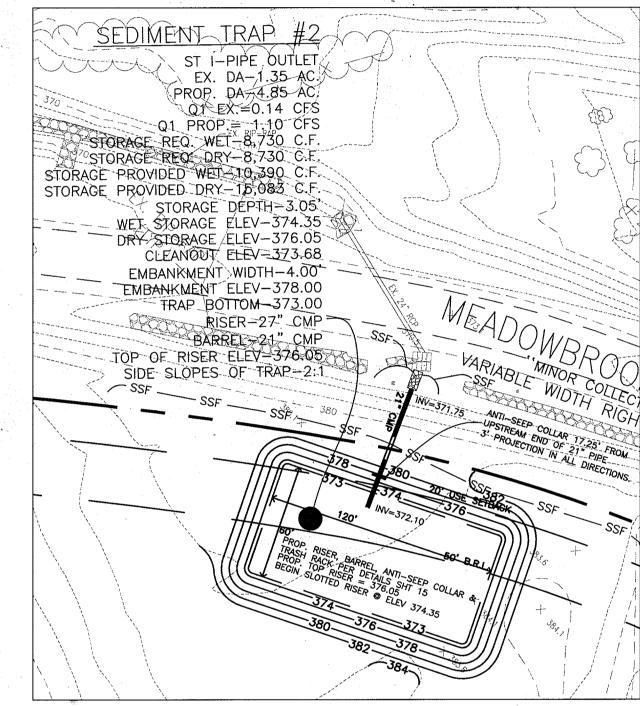


::G:\1010081 - Meadov



## Note:

THE EX. FARM LANE SHALL BE USED AS A TEMPORARY HAUL ROAD DURING PHASE I AND II CONSTRUCTION PER THE TEMPORARY HAUL ROAD DETAIL ON SHEET 15.



TRAP #2 CONSTRUCTION BEGINNING OF PHASE II

OWNER/DEVELOPER INFORMATION

HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS 9250 BENDIX ROAD ELLICOTT CITY, MD. 21043

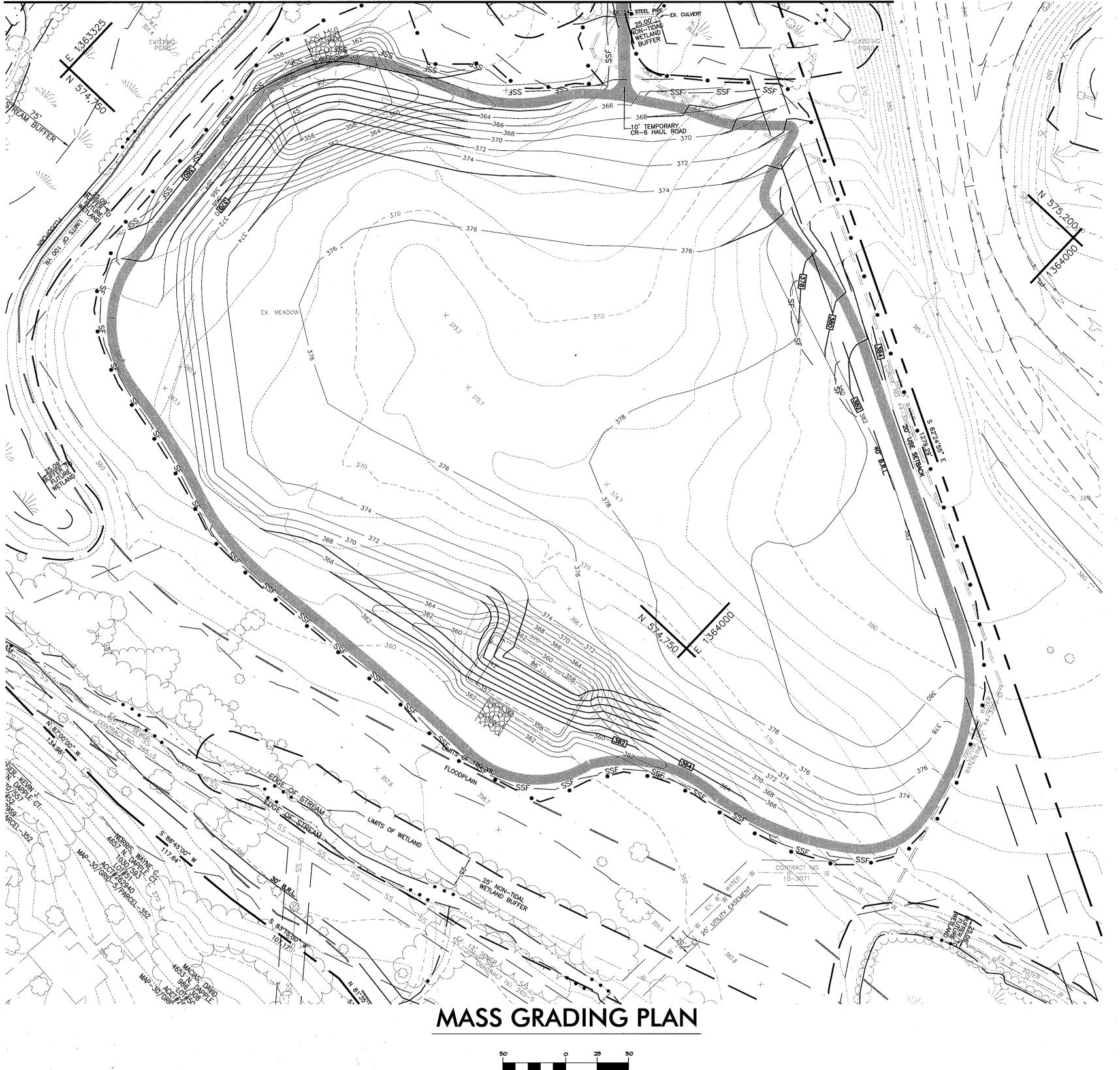
DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

DEPARTMENT OF RECREATION AND PARKS

MAP 30 PARCELS 383 & 387 MEADOWBROOK PARK ZONE TAX/ZONE ELEC. DIST. WATER CODE SEWER CODE

5750615

SEDIMENT BASIN # EX. DA-14.58 AC. PROP. 11.23 AC. Q1 EX.=2.90 CFS Q1 PROP.= 0.90 CFS STORAGE REQ. WET-26,244 C.F. STORAGE REQ. DRY-26,244 C.F. STORAGE PROVIDED WET-29,285 C.F. STORAGE PROVIDED DRY-61,689 C.F. STORAGE DEPTH-4.5' WET STORAGE ELEV-349,75 DRY STORAGE ELEV-352.50 CLEANOUT ELEV-348.88 EMBANKMENT HEIGHT-1150" EMBANKMÈNT WIDTH-8.00' EMBANKMENT ELEV-355.00 BASIN BOSTOM-348.00 EMERGENCY SPILLWAY WIDTH 20.00 WX10:1 SIDE SLOPES EMERGENCY SPILLWAY ELEV-353.50 RISER-12" RVC BARREL-10" PVC TOP OF RISER ELEV-352.50 4" DRAW DOWN ORIFICE INV-349:00 SIDE SLOPES OF BASIN (COMBINED)-5:1



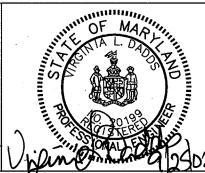
MATCHLINE SEE SHEET 8

BASIN #1 CONSTRUCTION BEGINNING OF PHASE II

MSCRONE

LAND PLANNING & SURVEYING CONSTRUCTION SERVICES

20 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 267-8621 Fax (410) 267-9932



2	DATE:	MAY. 2001	BY	No.	REVISION	DATE	Γ
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	СНК:	V.L.D.			:		
	DKIN;	1.3.					
	DRN:	16					
	DES:	J.S.					
ĺ							

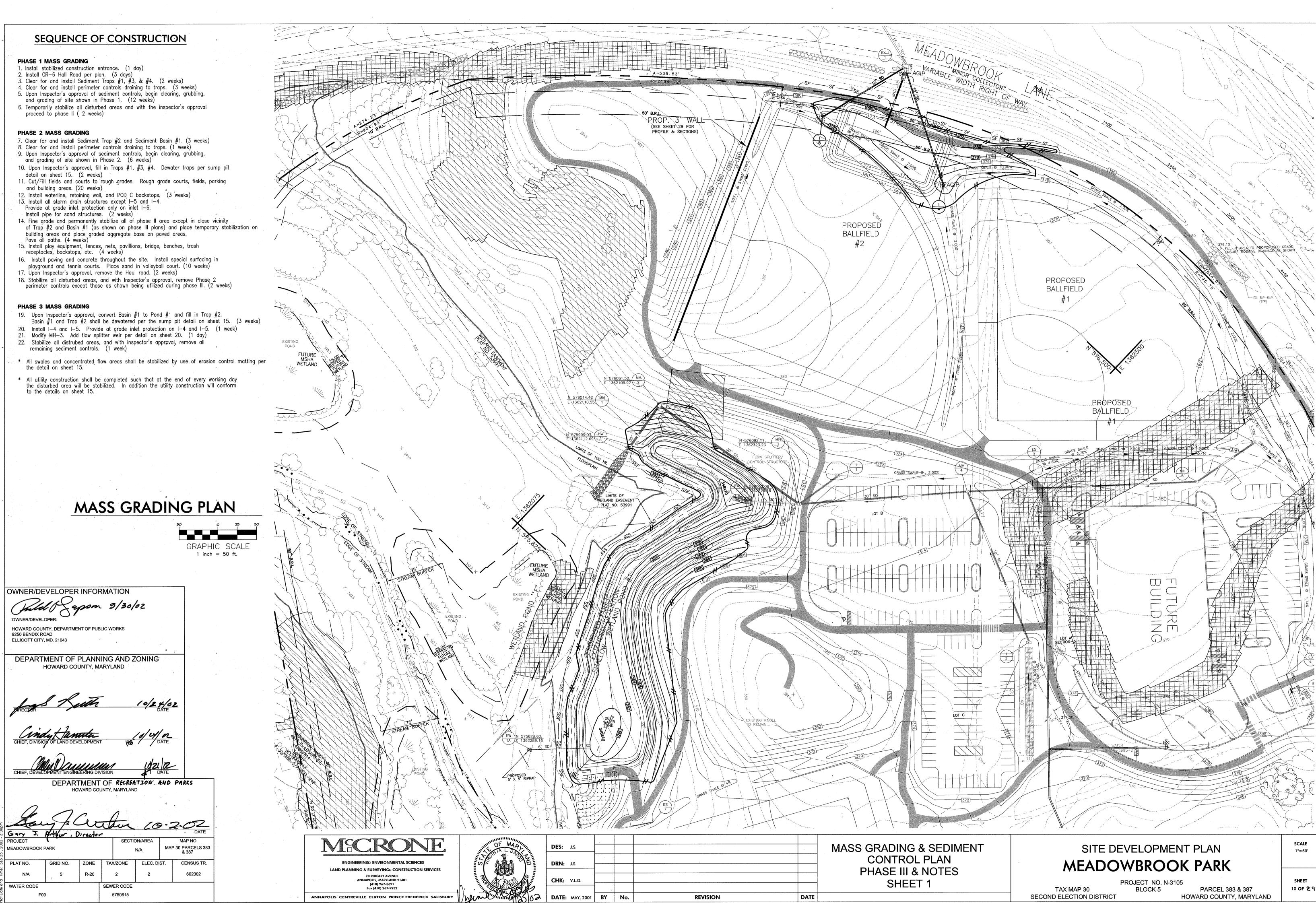
MASS GRADING & SEDIMENT **CONTROL PLAN** PHASE II SHEET-3

SITE DEVELOPMENT PLAN MEADOWBROOK PARK

TAX MAP 30

SECOND ELECTION DISTRICT

PROJECT NO. N-3105 PARCELS 383 & 387 HOWARD COUNTY, MARYLAND



2. ALL DIMENSIONS ARE TO FACE OF CURB.

3. ALL CURB RADII ARE 6.0' UNLESS OTHERWISE SPECIFIED.

4. STANDARD CURB AND GUTTER SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R 3.01.

5. HANDICAP RAMPS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R 4.03 & HANDICAP RAMP DETAIL AS SPECIFIED ON SHEET 20 OF 29.

6. ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-3.05

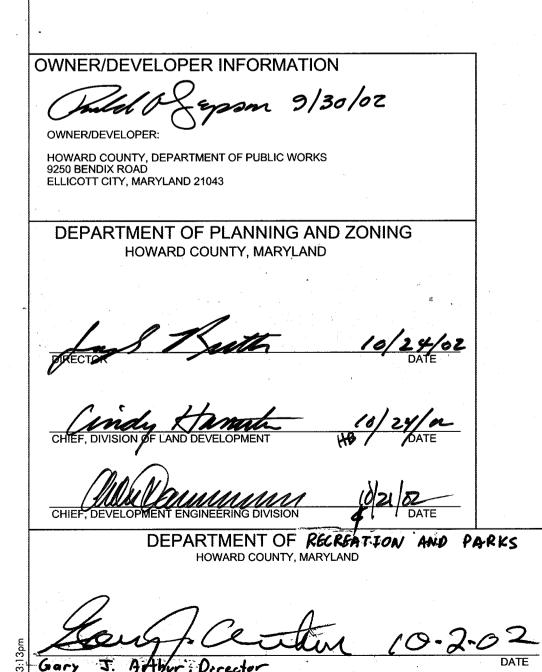
7. ALL EXTERIOR LIGHTING SHALL BE INSTALLED IN

COMPLIANCE WITH SECTION 134 OF THE ZONING REGULATIONS.

8. BACKSTOPS, PLAYERS BENCHES, WARNING TRACKS AND ALL OTHER BALLFIELD APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS ON SHEET 20.

9. ALL PATH INTERSECTIONS (TURN AROUND AREAS) SHALL BE GRADED AT 2.0% MAX.

ALL GRASS SWALES ARE MIN. OF 5' WIDTH UNLESS OTHERWISE SPECIFIED SEE SHEET 20 OF 29 FOR DETAILS.



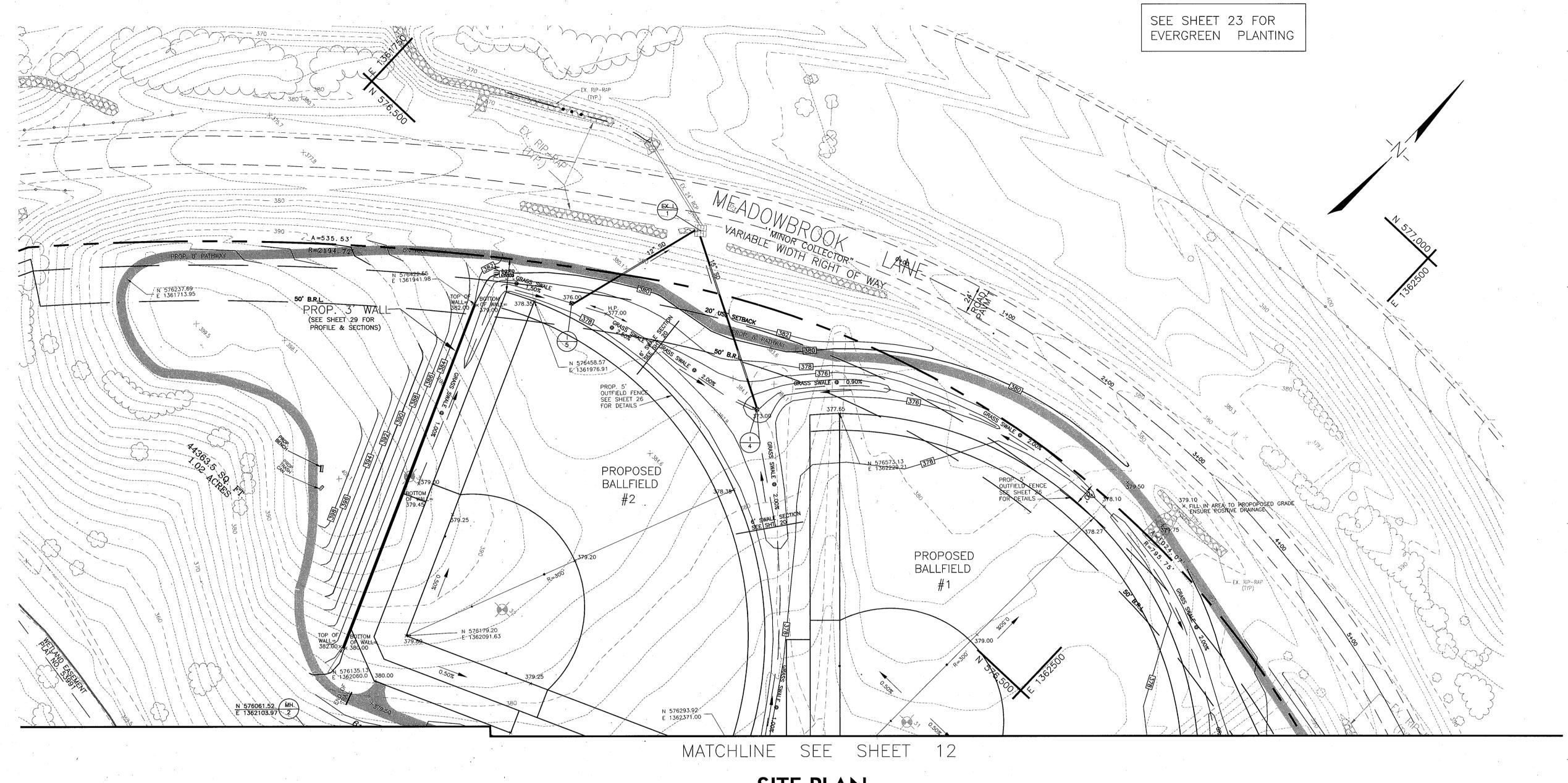
ZONE TAX/ZONE ELEC. DIST.

SEWER CODE

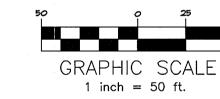
MEADOWBROOK PARK

WATER CODE

MAP 30 PARCELS 383 & 387



# SITE PLAN





amminute.				
DES: J.S.				
Z Z				
DRN: J.S.				
CHK: V.L.D.	4			
TO THE STATE OF TH				·
DATE: MAY, 20	001 <b>BY</b>	No.	REVISION	DATE

SITE & FINAL GRADING PLAN SHEET 1 SITE DEVELOPMENT PLAN

MEADOWBROOK PARK

PROJECT #N-3105
TAX MAP 30 BLOCK 5 PARCEL 383 & 387
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

1. SEE SHEET 11 FOR GENERAL SITE NOTES.

REFER TO SHEETS 21, 22 & 23 FOR ADDITIONAL PLANTING INFORMATION.

		WAT	ER QUALITY SUMMA	\RY		
D.A.	Area (Ac.)	WQv	Rev *	Cpv 4	Qp10	Qp100
Α	0.44	Pond	Grass Swale	Pond	N/A	N/A
В	1.86	Pond	Grass Swale	Pond	N/A	N/A
EE	1.80	Pond	Grass Swale	Pond	N/A	N/A
С	1.87	Pond	Dry Grass Swale	Pond	N/A	N/A
D	0.29	Pond	Grass Swale	Pond	N/A	N/A
Ε	2.04	Pond	Grass Swale	Pond	N/A	N/A
F	0.34	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
G	2.93	Pond	Grass Swale	Pond	N/A	N/A
Н	2.51	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
DD	1.20	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
1	1.55	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
J	5.09	Existing	Existing	Existing	N/A	N/A
AA	0.43	Bio B-East	Bio B-East	Bio B-East	N/A	N/A
BB	1.2	Bio B-East	Bio B-East	Bio B-East	N/A	N/A
CC	0.54	Bio B-West	Bio B-West	Bio B-West	N/A	N/A
Offsite Imperv.	1.59	Sheet flow to Buffer	Sheet flow to Buffer	N/A (<2.0 cfs)	N/A	N/A
* V1 = '</td <td>1.0 fps</td> <td>7</td> <td></td> <td></td> <td></td> <td></td>	1.0 fps	7				

		Grass Sv	vales/Dry Grass Swales			
R	Required (A		Provided (Ac. Ft)			
Rv	0.08	-	Grass Swales/Dry Gras	s Swale (al		
			Rv provided)			
		Propose	d Pond #1	i		
R	Required (A	AcFt)	Provided (Ac. Ft)			
WQv	0.30		0.33			
Rv	0.08	B	Grass Swales/Dry Grass Sw	vale		
Сру	0.54		0.55			
Qp10	N/A		N/A			
Qp100	N/A		N/A			
		Propose	Bioretention Area A			
R	Required (A	AcFt)	Provided (Ac. Ft)			
WQv	0.03		0.03			
Сру	N/A		N/A			
Rv	0.007		0.01			
Qp10	N/A		N/A			
Qp100	N/A		N/A			
		Propose	Bioretention Area B	· · · · · · · · · · · · · · · · · · ·		
R	Required (A		Provided (Ac. Ft)			
WQv	0.06		0.09			
Сру	0.08		0.08			
Rv	0.016		0.016			
Qp10	N/A		N/A			
Qp100	N/A		N/A			

Proposed Pond #1 — Extended Shallow Detention Wetland Pond (W-2)
Proposed Bioretention Area A — Bioretention Filter (F6)
Proposed Bioretention Area B — Bioretention Filter (F6)

Proposed pond #1 was selected based on its suitability to provide Cpv and WQv, space available, ease of maintenance, cost, community acceptance, and a high quality for the wetland habitat.

Both of the proposed bioretention areas were selected based on the small drainage areas being conveyed, space available, suitability to provide Rev, WQv, and Cpv, ease of maintenance, cost, and community acceptance.

	OWNER/DEVELOPER INFORMATION	
*	Milet Sepson 9/30/02	
	OWNER/DEVELOPER:	
	HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS 9250 BENDIX ROAD ELLICOTT CITY, MARYLAND 21043	

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

PRECTOR SALES	10/24/07 DATE
CHIEF, DIVISION OF AND DEVELOPMENT	19/24/a
MAD (V)	MB / DAIL

DEPARTMENT OF RECREATION AND PARKS
HOWARD COUNTY, MARYLAND

GRAPHIC SCALE
1 inch = 50 ft.

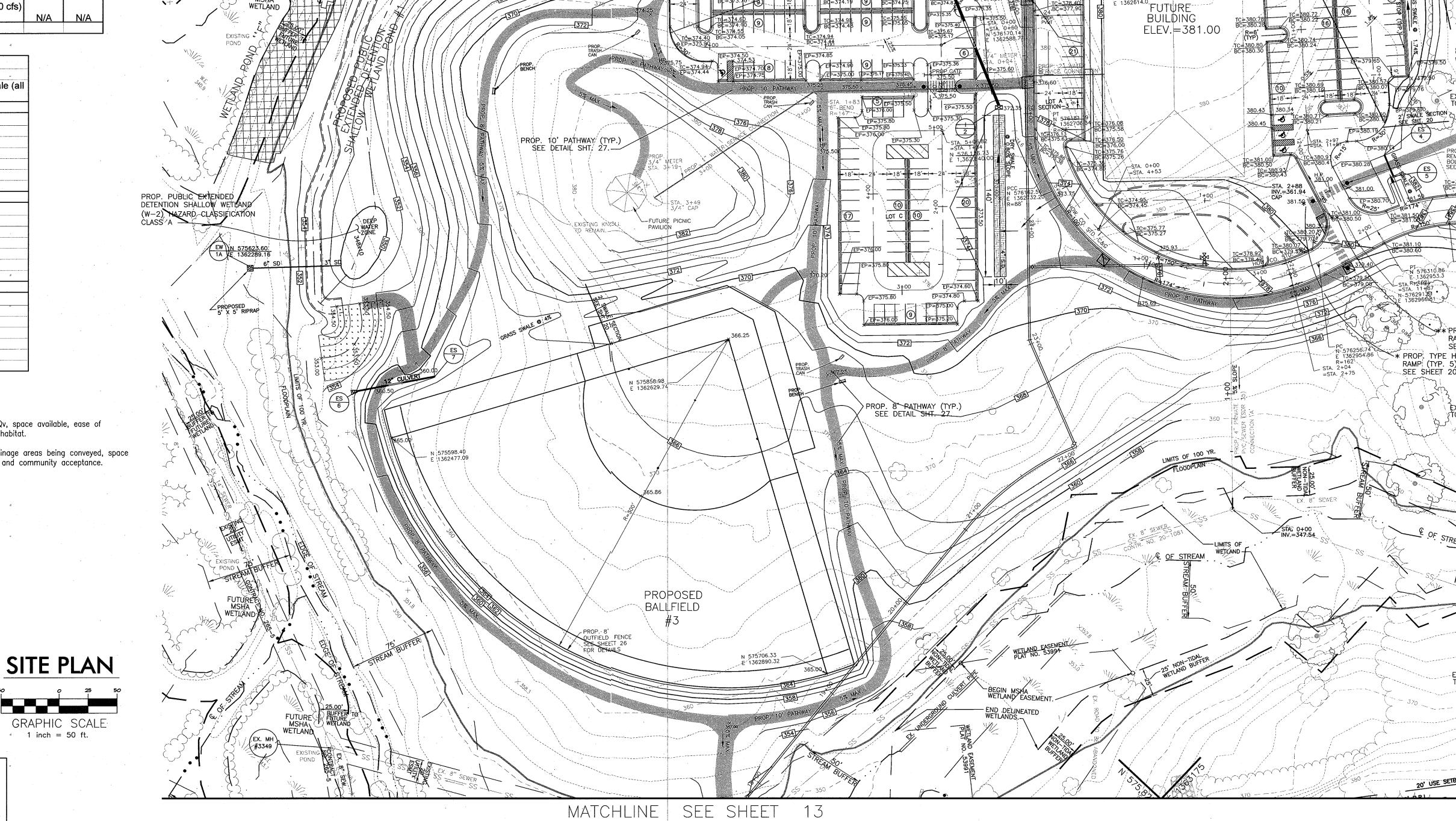
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES

20 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 267-8621 Fax (410) 267-9932

ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY

_	Ro				2	. <i> </i>	<u> </u>	202
3:1/pm	Gary J.	Arthori,	Direct	~~	The			DATE
7007	PROJECT	7			SECTIO	ON/AREA		MAP NO.
3	MEADOWBROOK F	PARK				N/A	MA	2 30 PARCELS 383 & 387
Şeb	PLAT NO.	GRID NO.	ZONE	TA)	(/ZONE	ELEC. DI	ST.	CENSUS TR.
ime:	N/A	5	R-20		2	2	,	602302
e and	WATER CODE			SEW	ER CODE	,		

5750615



**REVISION** 

DATE

FLOW SPLITTER/ CONTROL STRUCTURE

DES: J.S.

DRN: J.S.

CHK: V.L.D.

MATCHLINE SEE SHEET

PROP. STANDARD 6" CURB IN ACCORDANCE

SITE DEVELOPMENT PLAN

MEADOWBROOK PARK

PROJECT #N-3105 BLOCK 5

TAX MAP 30

SECOND ELECTION DISTRICT

PARCELS 383 & 382

HOWARD COUNTY, MARYLAND

SDP- 01-145

WITH DETAIL ON SHEET 20 (TYP.)

BALLFIELD )

SITE & FINAL GRADING PLAN

SHEET 2

REFER TO SHEETS 21, 22 & 23 FOR ADDITIONAL PLANTING INFORMATION.

### WATER QUALITY SUMMARY - STORAGE REQUIREMENTS

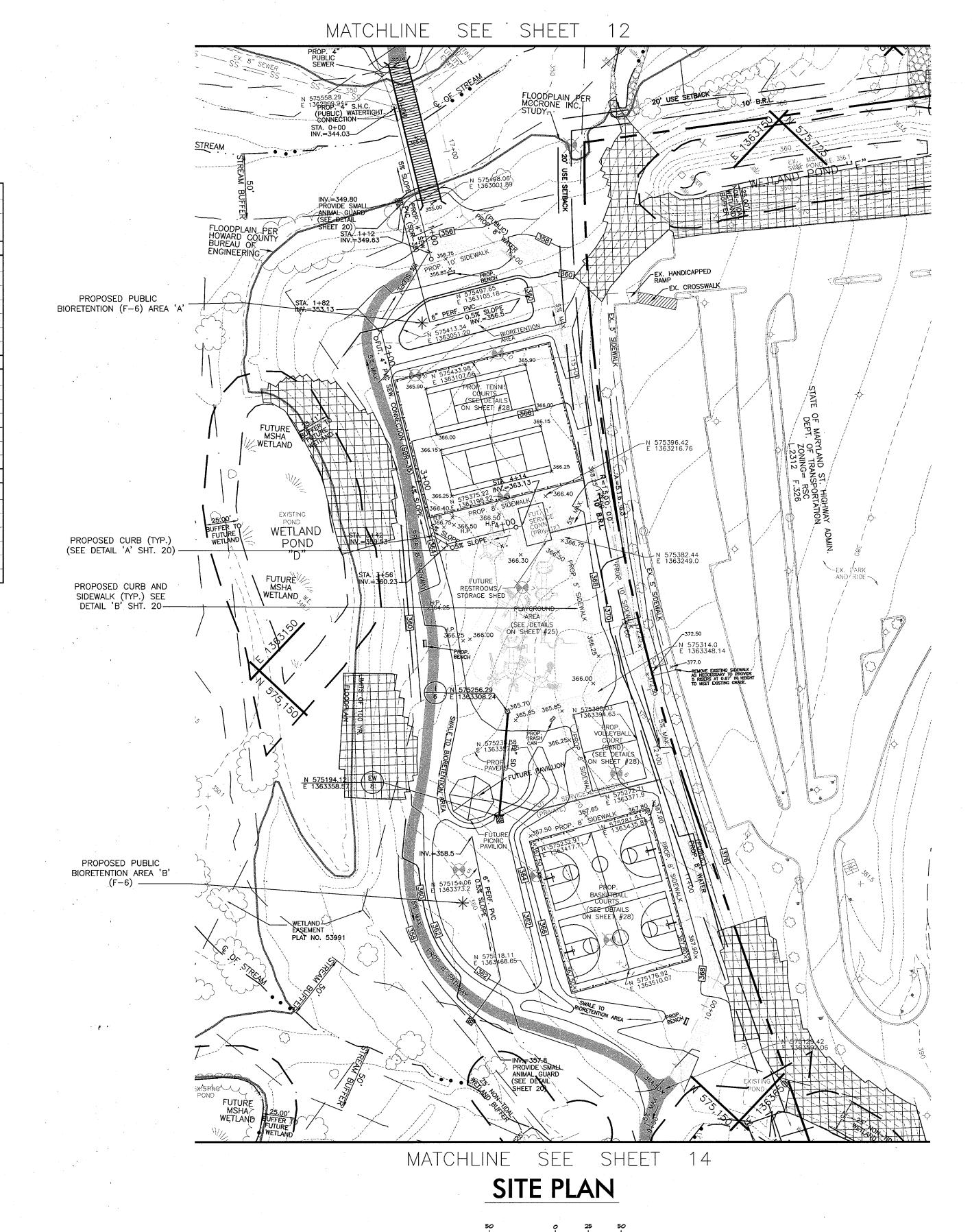
		WAT	ER QUALITY SUMMA	ARY		
D.A.	Area (Ac.)	WQv	Rev	Cpv	Qp10	Qp100
Α	0.44	Pond	Grass Swale	Pond	N/A	N/A
В	1.86	Pond	Grass Swale	Pond	N/A	N/A
EE	1.80	Pond	Grass Swale	Pond	N/A	N/A
С	1.87	Pond	Dry Grass Swale	Pond	N/A	N/A
D	0.29	Pond	Grass Swale	Pond	N/A	N/A
Е	2.04	Pond	Grass Swale	Pond	N/A	N/A
F	0.34	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
G	2.93	Pond	Grass Swale	Pond	N/A	N/A
Н	2.51	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
DD	1.20	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A
	1.55	*Grass Swale		N/A (<2.0 cfs)	N/A	N/A
J	5.09	Existing	Existing	Existing	N/A	N/A
AA	0.43	Bio B-East	Bio B-East	Bio B-East	N/A	N/A
BB	1.2	Bio B-East	Bio B-East	Bio B-East	N/A	N/A
СС	0.54	Bio B-West	Bio B-West	Bio B-West	N/A	N/A
Offsite Imperv.	1.59	Sheet flow to Buffer	Sheet flow to Buffer	N/A (<2.0 cfs)	N/A	N/A
* V1 = 1</td <td>1.0 fps</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.0 fps					

Proposed Pond #1 - Extended Shallow Detention Wetland Pond (W-2) Proposed Bioretention Area A — Bioretention Filter (F6)
Proposed Bioretention Area B — Bioretention Filter (F6)

Proposed pond #1 was selected based on its suitability to provide Cpv and WQv, space available, ease of maintenance, cost, community acceptance, and a high quality for the wetland habitat.

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		Grass Sv	vales/Dry Grass Swales	
R	Reguired (A		Provided (Ad	
Rv 0.08			Grass Swales/Dry Gra	ass Swale (al
			Rv provide	d)
		Propose	ed Pond #1	
R	Required (A			
WQv	0.30		0.33	
Rv	0.08	В	y Grass Swales/Dry Grass	Swale
Сру	0.54		0.55	
Qp10	N/A		N/A	
Qp100	N/A		N/A	
,		Propose	d Bioretention Area A	
R	Required (A	cFt)	Provided (Ac. Ft)	
WQv	0.03		0.03	
Cpv	N/A		N/A	
Rv	0.007		0.01	
Qp10	N/A	. " .	N/A	
Qp100	N/A		N/A	
		Propose	d Bioretention Area B	<del> </del>
R	Required (A	cFt)	Provided (Ac. Ft)	
WQv	0.06		0.09	
Сру	0.08		0.08	
Rv	0.016		0.016	
Qp10	N/A		N/A	
Qp100	N/A		N/A	



HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS 9250 BENDIX ROAD ELLICOTT CITY, MD. 21043 DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER INFORMATION

DEPARTMENT OF RECEGATION AND PARKS
HOWARD COUNTY, MARYLAND

MAP 30 PARCELS 383 & 387 ZONE TAX/ZONE ELEC. DIST. CENSUS TR.

SEWER CODE

WATER CODE

DES: J.s. DRN: J.S. DATE **REVISION** 

SITE & FINAL GRADING PLAN SHEET 3

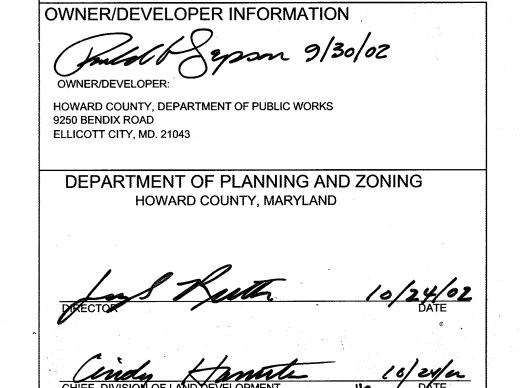
1 inch = 50 ft.

SITE DEVELOPMENT PLAN MEADOWBROOK PARK

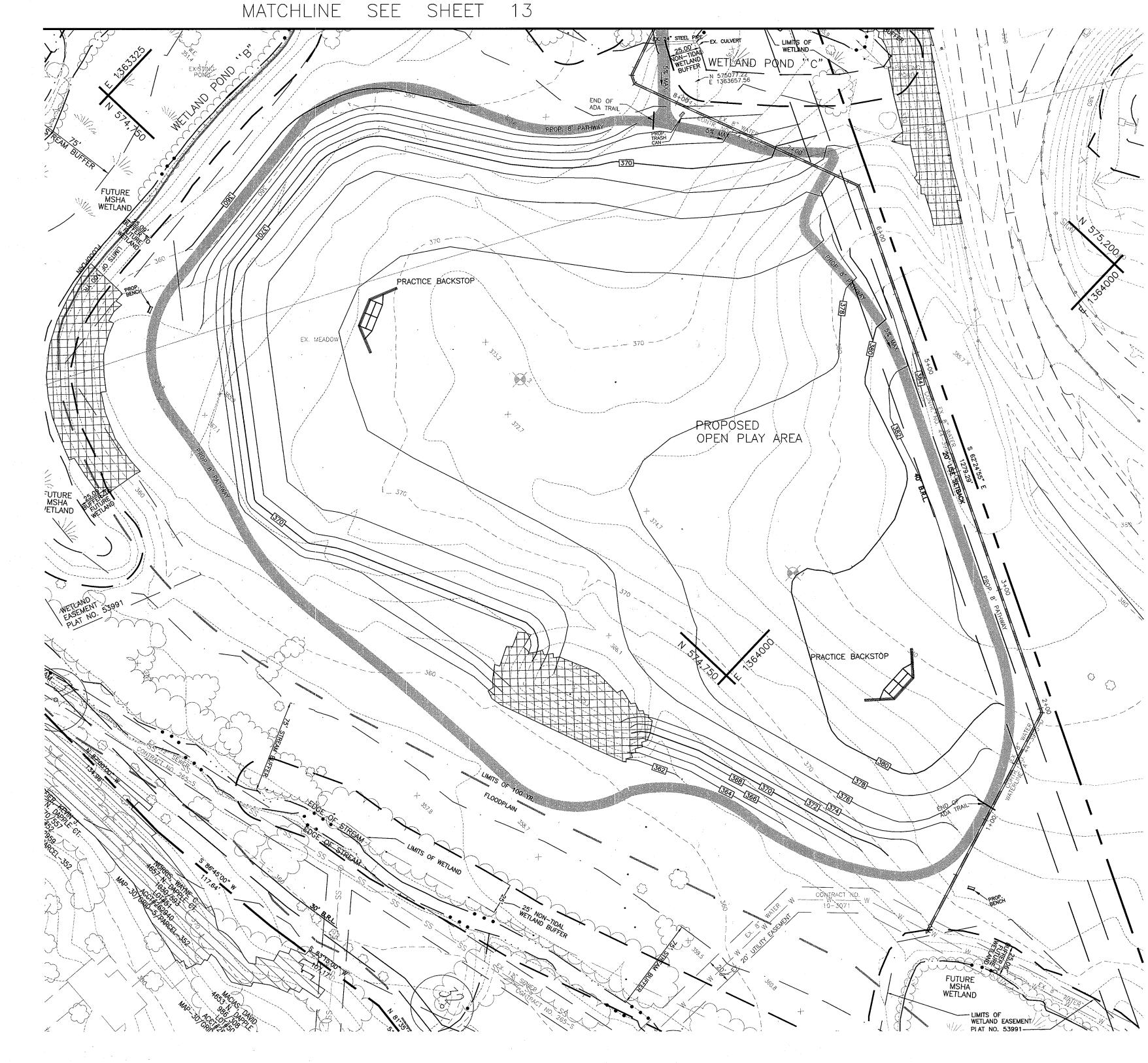
PROJECT NO. N-3105 BLOCK 5 PARCEL 383 & 387 HOWARD COUNTY, MARYLAND

TAX MAP 30 SECOND ELECTION DISTRICT

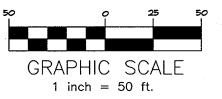
REFER TO SHEETS 21, 22 & 23 FOR ADDITIONAL PLANTING INFORMATION.



MAP 30 PARCELS 383 & 387 ZONE TAX/ZONE ELEC. DIST. SEWER CODE WATER CODE



SITE PLAN



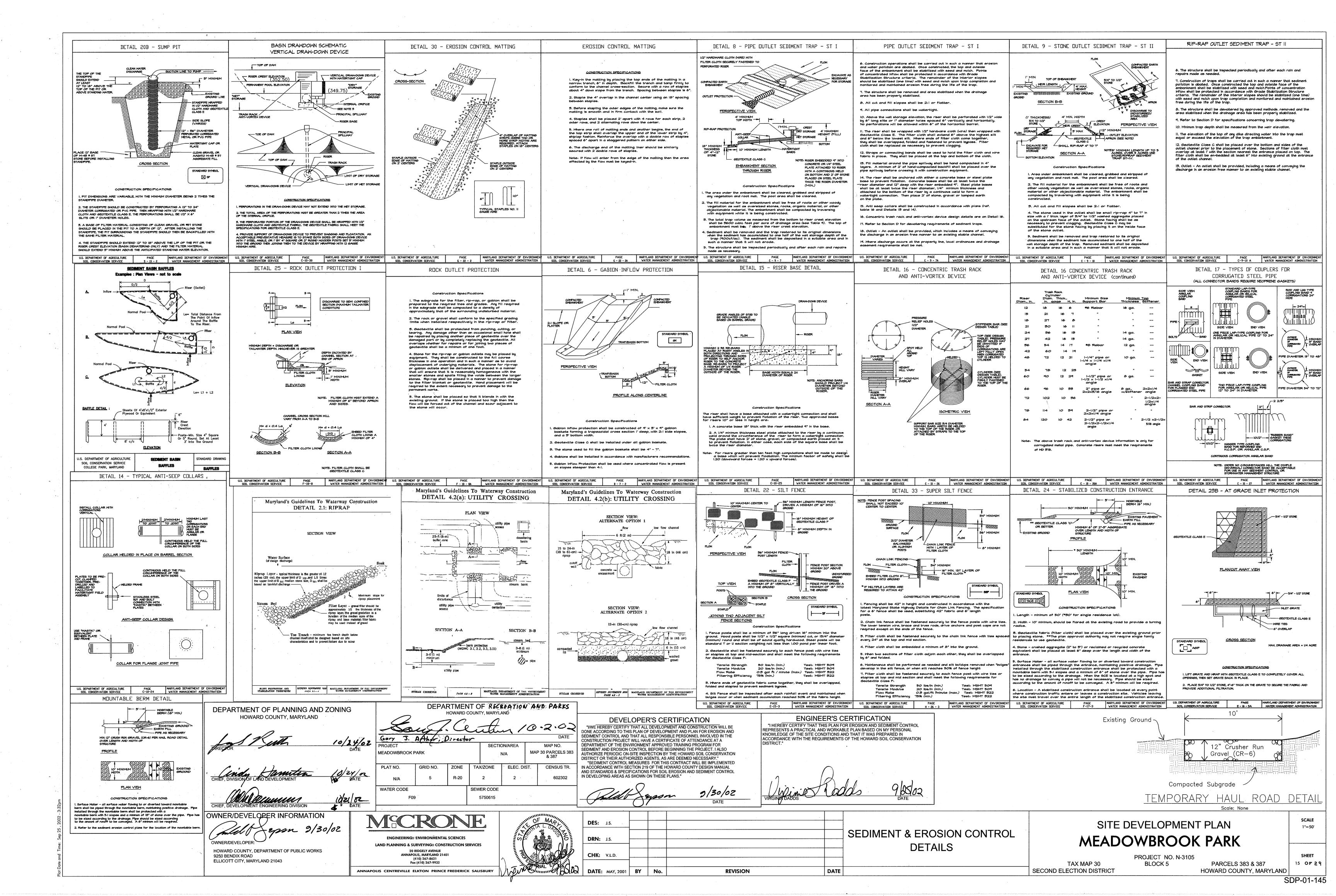
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CH	IK: V.L.D.				
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	.iq. J.S.				
	l <b>N:</b> J.S.				
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OF MANY	_				

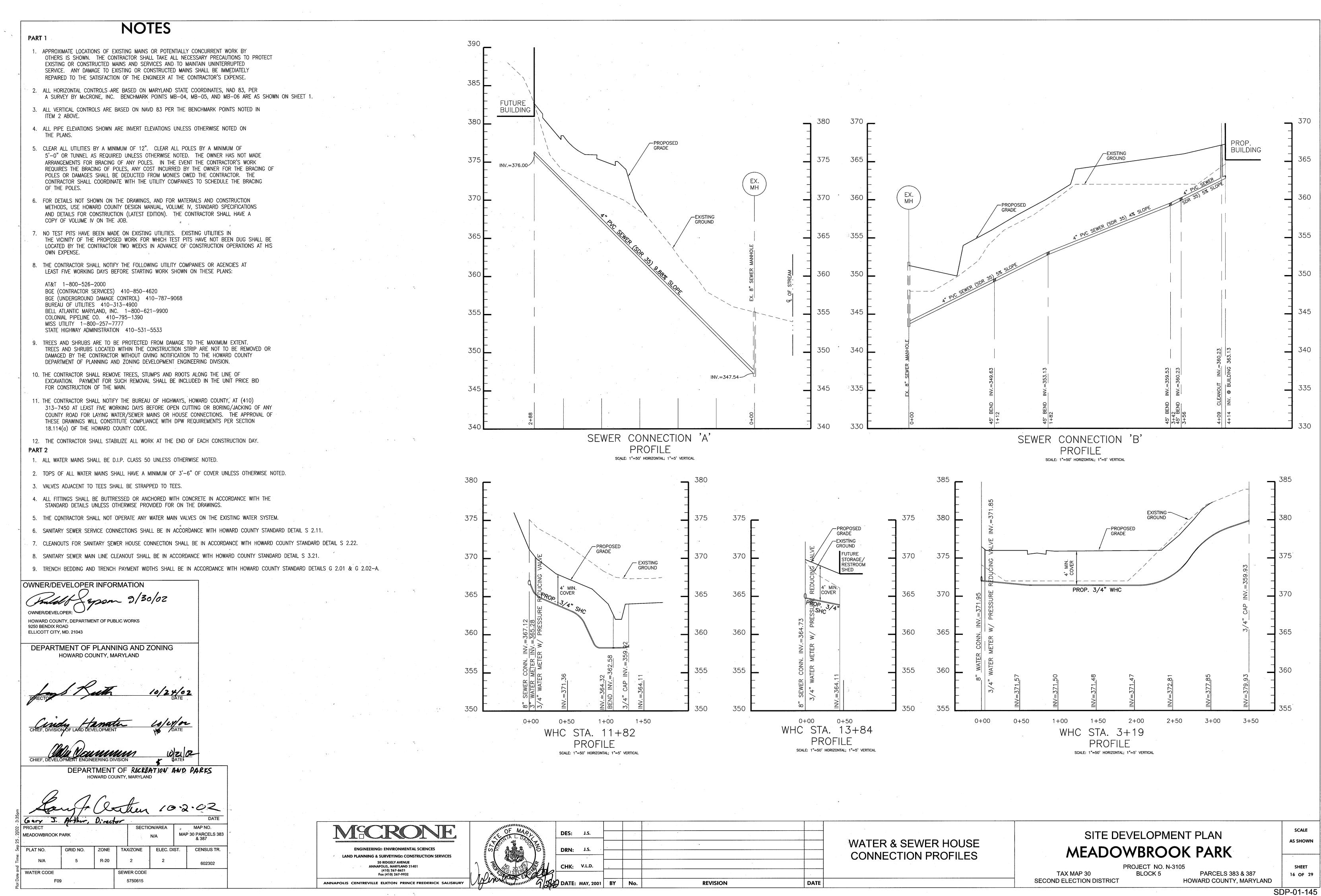
SITE & FINAL GRADING PLAN SHEET 4

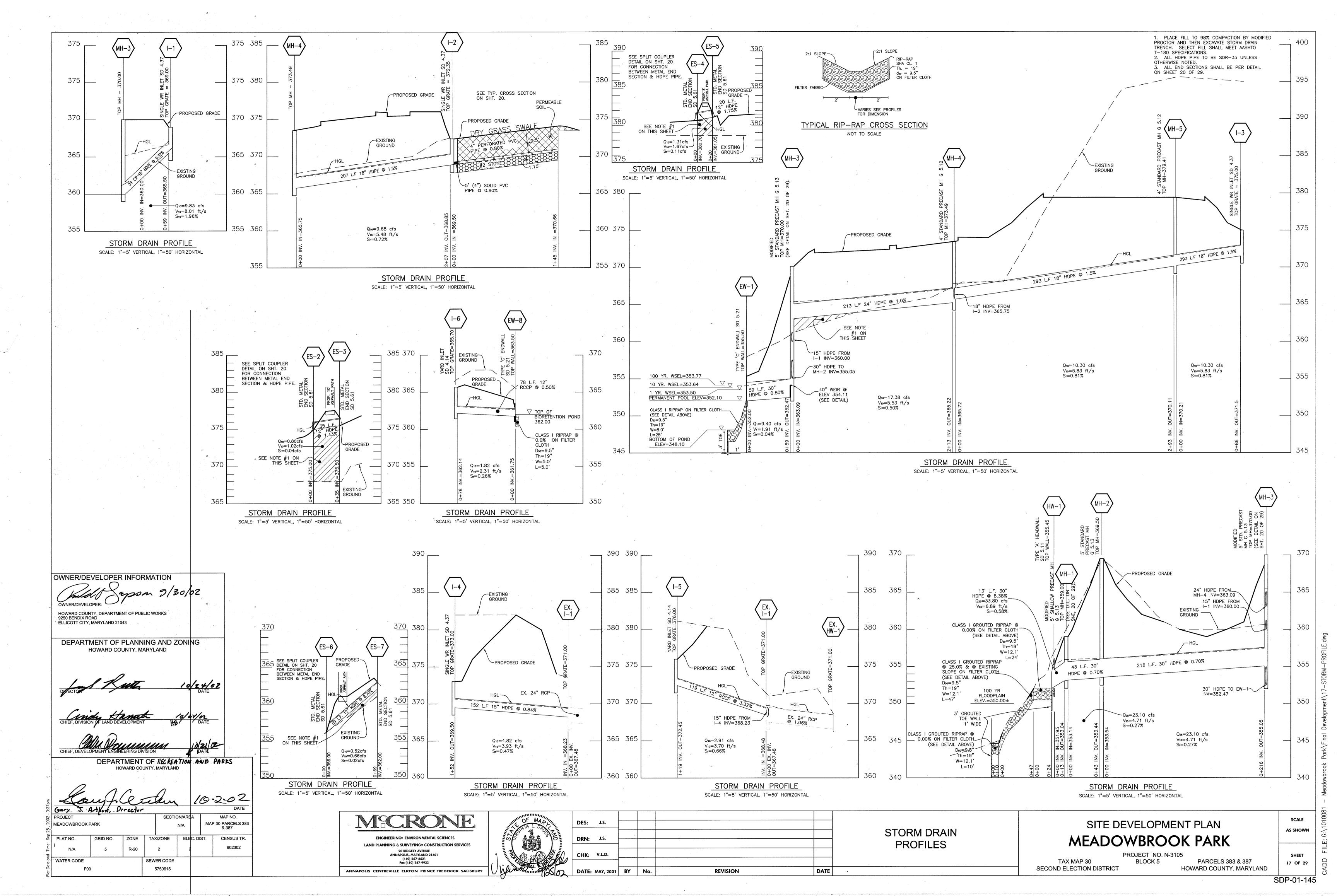
SITE DEVELOPMENT PLAN MEADOWBROOK PARK

PROJECT NO. N-3105 BLOCK 21 TAX MAP 30 SECOND ELECTION DISTRICT

PARCELS 383 & 387 HOWARD COUNTY, MARYLAND







· .	WATER QUALITY SUMMARY											
D.A.	Area (Ac.)	WQv.	Rev	Сру	Qp10	Qp100						
Α			Grass Swale	Pond	N/A	N/A						
В	1.86	Pond	Grass Swale	Pond	N/A	N/A						
EE	1.80	Pond	Grass Swale	Pond	N/A	N/A						
С	1.87	Pond	Dry Grass Swale	Pond	N/A	N/A						
D	0.29	Pond	Grass Swale	Pond	N/A	N/A						
E	2.04	Pond	Grass Swale	Pond	N/A	N/A						
F	0.34	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A						
G	2.93	Pond	Grass Swale	Pond	N/A	N/A						
Н	2.51	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A						
DD	1.20	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A						
ļ	1.55	*Grass Swale	Grass Swale	N/A (<2.0 cfs)	N/A	N/A						
J	5.09	Existing	Existing	Existing	N/A	N/A						
AA	0.43	Bio B-East	Bio B-East	Bio B-East	N/A	N/A						
BB	1.2	Bio B-East	Bio B-East	Bio B-East	N/A	N/A						
CC	0.54	Bio B-West	Bio B-West	Bio B-West	N/A	N/A						
Offsite Imperv. Trails	1.59	Sheet flow to Buffer	Sheet flow to Buffer	N/A (<2.0 cfs)	N/A	N/A						
* V1 = 1</td <td>1.0 fps</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.0 fps											

1.0 103				
		<b>Grass Sw</b>	ales/Dry Grass Swales	
	Required (	AcFt)	Provided (Ac. Ft)	
Rv	0.08		Grass Swales/Dry Grass Sv	vale (all
			Rv provided)	,
,		Propose	d Pond #1	
F	Required (	AcFt)	Provided (Ac. Ft)	
WQv	0.30		0.33	
Rv	0.08	Ву	Grass Swales/Dry Grass Swale	
Сру	0.54		0.55	
Qp10	N/A		N/A	
Qp100	N/A	:	N/A	
		Proposed	I Bioretention Area A	
F	Required (	• • • • • • • • • • • • • • • • • • • •	Provided (Ac. Ft)	
WQv	0.03	v .	0.03	
Сру	N/A		N/A	
Rv	0.007		° 0.01	
Qp10	N/A		N/A	
Qp100	N/A		N/A	
		Proposed	I Bioretention Area B	
F	Required (		Provided (Ac. Ft)	
WQv	0.06		0.09	
Сру	0.08		0.08	
Rv	0.016		0.016	
Qp10	N/A		N/A	
Qp100	N/A		N/A	

Proposed Pond #1 - Extended Shallow Detention Wetland Pond (W-2) Proposed Bioretention Area A - Bioretention Filter (F6) Proposed Bioretention Area B — Bioretention Filter (F6)

Proposed pond #1 was selected based on its suitability to provide Cpv and WQv, space available, ease of maintenance, cost, community acceptance, and a high quality for the wetland habitat.

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### OWNER/DEVELOPER INFORMATION

HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS 9250 BENDIX ROAD

ENGINEER'S CERTIFICATION

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

DEPARTMENT OF RECREATION AND PARKS HOWARD COUNTY, MARYLAND

5750615

MAP 30 PARCELS 383 & 387 MEADOWBROOK PARK GRID NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. 602302 R-20 WATER CODE SEWER CODE

DEPARTMENT OF PLANNING ANDZONING HOWARD COUNTY, MARYLAND

LAND PLANNING & SURVEYINGO CONSTRUCTION SERVICES

20 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 267-8621 Fax (410) 267-9932

ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS

- (F-6)
  Annual maintenance of plant material, mulch layer and soil is required. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the material shall be checked for disease and insect infestation
- and maintenance will address dead material and pruning. 2. Schedule of plant inspection will be twice a year in spring and fall. This inspection will include removal of dead and diseased vegetation considered beyond treatment, treatment of all diseased trees and shrubs and replacement of all deficient stakes and wires.
- 3. Mulch shall be inspected each spring. Remove previous mulch layer before applying new layer once every 2 to 3
- 4. Soil erosion to be addressed on an as needed basis, with a minimum of once per month and after heavy storm events.

#### OPERATION AND MAINTENANCE SCHEDULE FOR STORMWATER WETLANDS (W-1 THROUGH W-4)

The stormwater wetland facility shall be inspected annually after major storms. Inspection shall be performed during wet weather to determine if the facility is functioning

DES: J.S.

DRN: J.S.

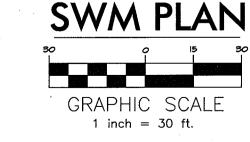
CHK: V.D.

DATE: MAY, 2001 BY

- 2. The top and side slopes of the embankment shall be moved a minimum of once per year, when vegetation reaches 18"
- in height or as needed. 3. Debris and litter shall be removed during regular mowing operations and as needed.
- 4. Visible signs of erosion in the facility shall be repaired as soon as it is noticed.
- 5. Remove silt when in exceeds four (4) inches deep in the
- 6. If a minimum coverage of 50% is not achieved in the planted wetland zones after the second growing season, reinforcement planting shall be provided.

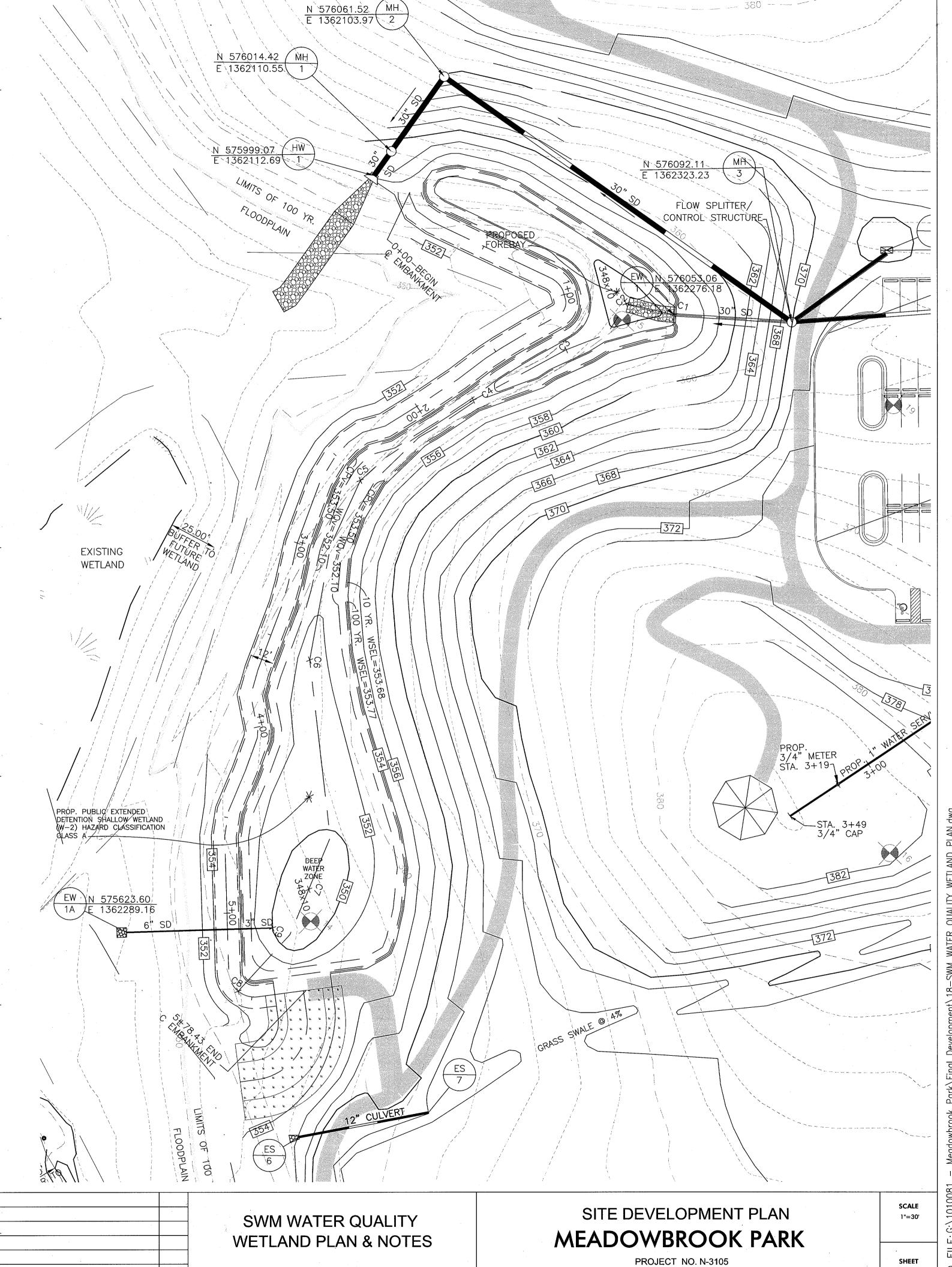
### COORDINATE TABLE

POINT	NORTHING	EASTING
C1	576053.06	1362276.18
C2	576040.09	1362253.84
C3	576001.24	1362247.60
C4	575949.06	1362230.38
C5	575878.44	1362216.34
C6	575792.15	1362261.33
C7	575704.86	1362342.82
C8	575641.12	1362352.42
C9	575677.34	1362342.97



REVISION

DATE



BLOCK 5

PARCELS 383 & 387

HOWARD COUNTY, MARYLAND

18 **OF** 29

SDP- 01-145

TAX MAP 30

SECOND ELECTION DISTRICT

# 24.0 Materials **Specifications Table 27 Geotextile Fabrics**

CLASS	APPARENT OPENING SIZE MM. MAX.	GRAB TENSILE STRENGTH LB. MIN.	BURST STRENGTH PSI. MIN.
A	0.30	250	500
В	0.60	200	320
С	0.30	200	320
D	0.60	90	145
E	0.30	90	145
F (SILT FENCE)	0.40-0.80*	90	190

- \* US STD SIEVE CW-02215
- THE PROPERTIES SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
- APPARENT OPENING SIZE MSMT 323
- GRAB TENSILE STRENGTH ASTM D 1682: 4x8" SPECIMEN, 1x2" CLAMPS, 12"/MIN. STRAIN RATE IN BOTH PRINCIPAL DIRECTIONS OF GEOTEXTILE

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 85% BY WEIGHT OF POLYOLEPHINS, 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

### 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 MODULES WHEN TESTED IN ACCORDANCE WITH msmt 509. THE MATERIAL SHALL ALSO HAVE A 0.3 GAL./FT.2/MIN. FLOW RATE AND SEVENTY-FIVE PERCENT (75%) MINIMUM FILTERING EFFICIENCY WHEN TESTED IN ACCORDANCE WITH

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.

# **Table 28 Stone Size**

	SIZE RANGE	D <sub>50</sub>	D <sub>50</sub>	AASHTO	WEIGHT
NUMBER 57	3/8"-1 1/2"	1/2"	1 1/2"	M-43	N/A
NUMBER 1	2"-3"	2 1/2"	3"	M-43	N/A
RIPRAP **	4"-7"	5 1/2"	7"	N/A	N/A
CLASS I	N/A	9.5"	15"	N/A	150 LB MAX
CLASS II	N/A	16"	24"	N/A	700 LB MAX
CLASS III	N/A	23"	34"	N/A	2000 LB MAX

- \* THIS CLASSIFICATION IS TO BE USED ON THE INSIDE FACE OF STONE OUTLETS AND CHECK DAMS.
- \*\* THIS CLASSIFICATION IS TO BE USED WHENEVER SMALL RIP-RAP IS REQUIRED. The STATE HIGHWAY ADMINISTRATION DESIGNATION FOR THIS STONE IS STONE FOR GABIONS (905.01.04).

NOTE: RECYCLED CONCRETE EQUIVALENT MAY BE SUBSTITUTED FOR ALL STONE CLASSIFICATIONS. RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE SIZES MEETING THE APPROPRIATE CLASSIFICATION, SHALL CONTAIN NO STEEL REINFORCEMENT, AND SHALL HAVE A DENSITY OF 150 POUNDS PER CUBIC FOOT.

### OWNER/DEVELOPER INFORMATION

HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS 9250 BENDIX ROAD

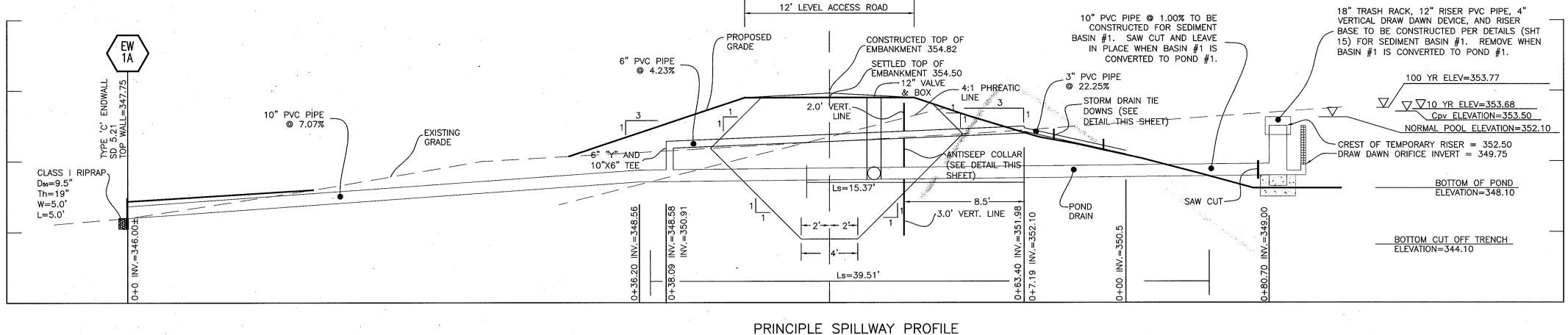
ELLICOTT CITY, MD. 21043

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

DEPARTMENT OF RECREATION AND PARKS

3:4	Gary J.	Arthur,	Direc	tor			12	DATE
2002 -	PROJECT		1		SECTION	ON/AREA	12	MAP NO.
25,	MEADOWBROOK	PARK				N/A	MAI	P 30 PARCELS 383 & 387
Sep	PLAT NO.	GRID NO.	ZONE	TAX	ZONE	ELEC. DI	ST.	CENSUS TR.
d Time:	N/A	5	R-20		2	2		602302
te and	WATER CODE			SEW	R CODE			
t Date	F0	9		5	750615			

10" PVC PIPE © 7.07% EXISTING GRADE Th=19" W=5.0' L=5.0'345

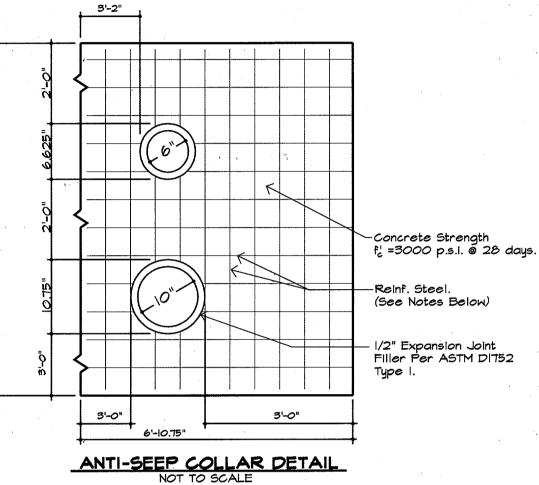


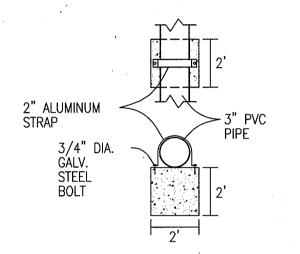
SCALE: 1"=5'

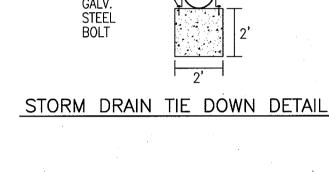
- IMPERVIOUS CLAY CORE

(CL OR CH MATERIAL

TOP OF IMPERVIOUS







- SEE PROFILE THIS SHEET FOR LOCATION OF COLLAR. 2. POSITION ANTI-SEEP COLLAR A MINIMUM OF 2'-O" FROM PIPE SEAM.
- 3. MINIMUM WALL THICKNESS IS 8" USING 3000 PSI CONCRETE 4. REINFORCING STEEL - GRADE 60 DEFORMED BARS (ASTM-A-615); #4 BARS AT 12" C/C EACH WAY CENTERED IN WALL; MAINTAIN A
- MINIMUM OF 3" CLEARANCE FROM ALL SURFACES. 5. POUR #1 - BOTTOM OF ANTI-SEEP COLLAR AND CONCRETE
- CRADLE AROUND PRINCIPAL SPILLWAY PIPE AND EXTEND VERTICAL STEEL A MINIMUM OF I'-O" ABOVE CONSTRUCTION JOINT FOR SPLICE.
- . PLACE EXPANSION JOINT AROUND PIPE AS SHOWN. 7. POUR #2 - UPPER PORTION OF ANTI-SEEP COLLAR.

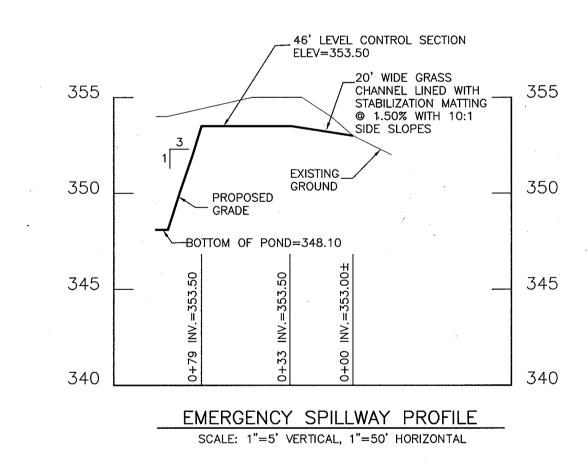
### WETLAND POND

### **ELEVATION STORAGE VOLUME WORKSHEET**

Water Quantity Volume from Deepwater							
Surface Area	Elevation	Surface Area	Average Surface area	Difference In Elevation	Incremental Storage	Sum Storag	
(Sq. Ft.)	(Ft.)	(Ac.)	(Ac.)	(Ft.)	(AcFt.)	(AcFt.)	
1015	348.10	0.02			0.000	0.000	
1015	349.00	0.02	0.02	0.90	0.021	0.021	
1015	350.00	0.02	0.02	1.00	0.023	0.044	
1015	351.00	0.02	0.02	1.00	0.023	0.068	
1015	352.00	0.02	0.02	1.00	0.023	0.091	
1015	352.10	0.02	0.02	0.10	0.002	0.093	

	Water (	<b>Quantity Sur</b>	face Area	<= to 6''	
	Surface Area	Elevation	Surface Area	Surface area <= 6"	
ı	(Sq. Ft.)	(Ft.)	(Ft.^2)	(Ft.^2)	
	7428	351.60	7428.00		
	14600	352.10	14600.00	7172.00	

Surface Area	Elevation	Surface Area	Surface area
(Sq. Ft.)	(Ft.)	(Ft.^2)	(Ft.^2)
3174	350.60	3174.00	
7428	351.60	7428.00	4254.00
14600	352.10	14600.00	7172.00
		SUM=	11426.00



BÉGIN TOP CUT-OFF

⊬TRENCH STA 0+04.20´

──BEGIN BOTTOM CUT-OFF

TRENCH STA 0+13.85

350

- 345

### Water Quality Volumes for WETLAND POND Extended Detention Shallow Wetland

ĺ	. '	Guidelines	for Facility	Provided l	y Facility
	Cimina Cuitania	Volume	Surface Area	Volume	Surface Area
	Sizing Criteria	Allocation	Allocation	Allocation	Allocation
. [		Percent	Percent	Percent	Percent
	Deepwater	25%	N/A	28.2%	<u>-</u>
L					
	6" Deep or less	N/A	35%	<u>-</u>	49.12%
l	18" Deep or less	N/A	65%	_	78.26%
	14				

DEEPWATER - A MINIMUM OF 4' DEEP

# EMBANKMENT CENTER LINE PROFILE

BOTTOM OF CUT-OFF TRENCH=344.10

CONSTRUCTION TOP OF

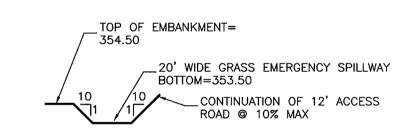
\_EXISŤINĞ∠

GROUND

EMBANKMENT=354.82

SCALE: 1"=5' VERTICAL, 1"=50' HORIZONTAL

∕BOTTOM OF POND=348.10



20' WIDE EMERGENCY SPILLWAY

100 YR ELEV=353.77

V NORMAL POOL ELVEVATION=352.10

ELEV=353.50 (SEE CROSS

SECTION AND PROFILE THIS

EMERGENCY SPILLWAY CROSS SECTION SCALE: 1"=5' VERTICAL, 1"=50' HORIZONTAL

### WETLAND POND - STORAGE REQUIREMENTS

SETTLED TOP OF EMBANKMENT=354.50

PROPOSED 6" SD

/PROPOSED/10"/SD/1NV=348.69

STA. /5+08:50 (SÉDIMENT/-ĆONTROŁ PRINCIPAL SPILŁWAY)/

INV=351.4

STA. 5+08.50

END TOP CUT-OFF -

TRENCH STA 5+78.43/

END BOTTOM CUT-OFF TRENCH STA 5+68.79

ELEV	SURFACE	AVG. SURFACE	DIFF IN	INTERVAL	SUM STORAGE	SUM STORAGE	SUM STORAGE
	AREA	AREA	ELEV.	STORAGE	INTERVAL		ABOVE 352.1
feet	square feet	square feet	feet	cubic feet	cubic feet	acre-feet	acre-feet
354.5	TOP OF I	EMBANKMENT					
354.0	21461				48574	1.115	0.786
		20553	0.5	10277			
353.5	19645				38298	0.879	0.550
		18739	0.5	9370			
353.0	17833				28928	0.664	0.335
		16934	0.5	8467			
352.5	16035				20461	0.470	0.141
		15318	0.4	6127			
352.1	14600				14334	0.329	0.000
		12266	0.1	1227	TA DESCRIPTION AND ARE AN ARE ARRANGED BY ARRANGED A TOTAL OF THE PROPERTY OF		
352.0	9931				13108	0.301	
		6802	1.0	6802			
351.0	3673				6306	0.145	
		3050	1.0	3050			
350.0	2426				3256	0.075	
		2017	1.0	2017			
349.0	1607				1240	0.028	
		1453	0.5	726			
348.5	1298				513	0.012	
		1157	0.4	463			
348.1	1015				51	0.001	

TAX MAP 30

SECOND ELECTION DISTRICT

AND PLANNING & SURVEYINGO CONSTRUCTION SERVICE

ANNAPOLIS, MARYLAND 21401 (410) 267-8621 Fax (410) 267-9932

Spa	DATE: MAY, 2001	BY	No.	REVISION		DATE
3						
	CHK: V.D.					
1111		,				
1111	DRN: J.S.				·	
	DES: J.S					
				·		

STORMWATER MANAGEMENT **PROFILES & DETAILS** 

# SITE DEVELOPMENT PLAN

MEADOWBROOK PARK PROJECT NO. N-3105

BLOCK 5

PARCELS 383 & 387 HOWARD COUNTY, MARYLAND

SDP-01-145

355

350

345

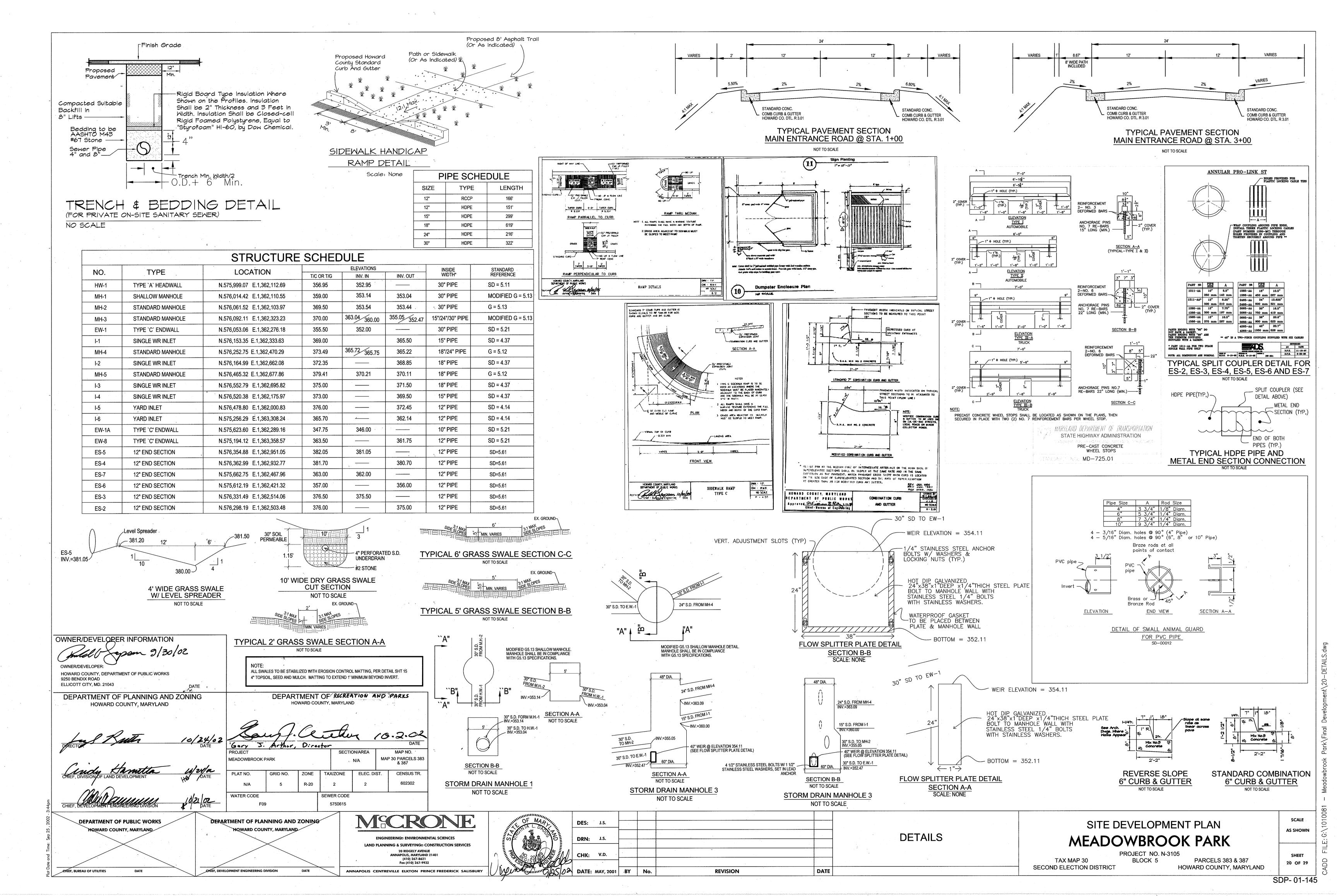
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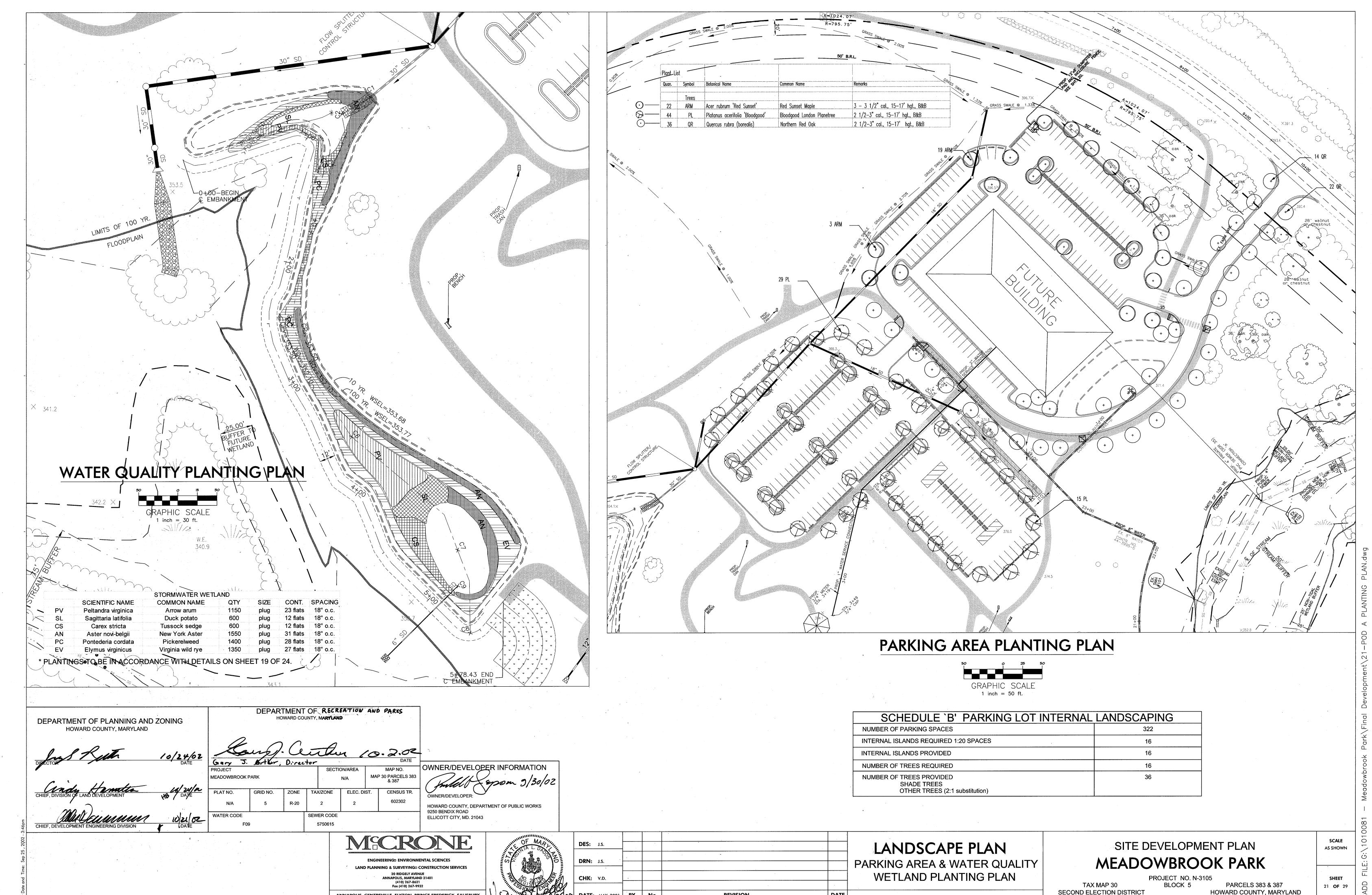
350

345

AS SHOWN

19 OF 29



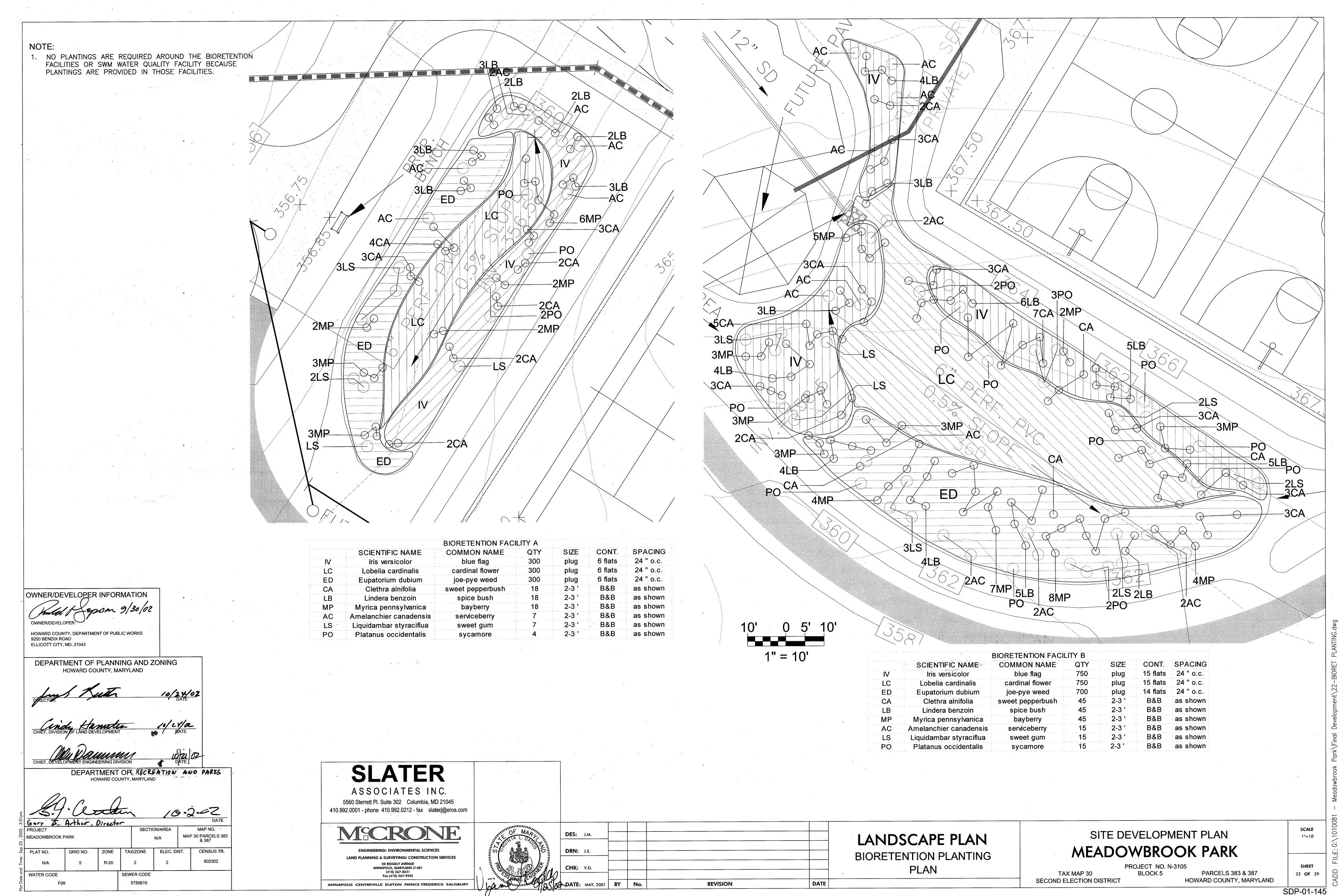


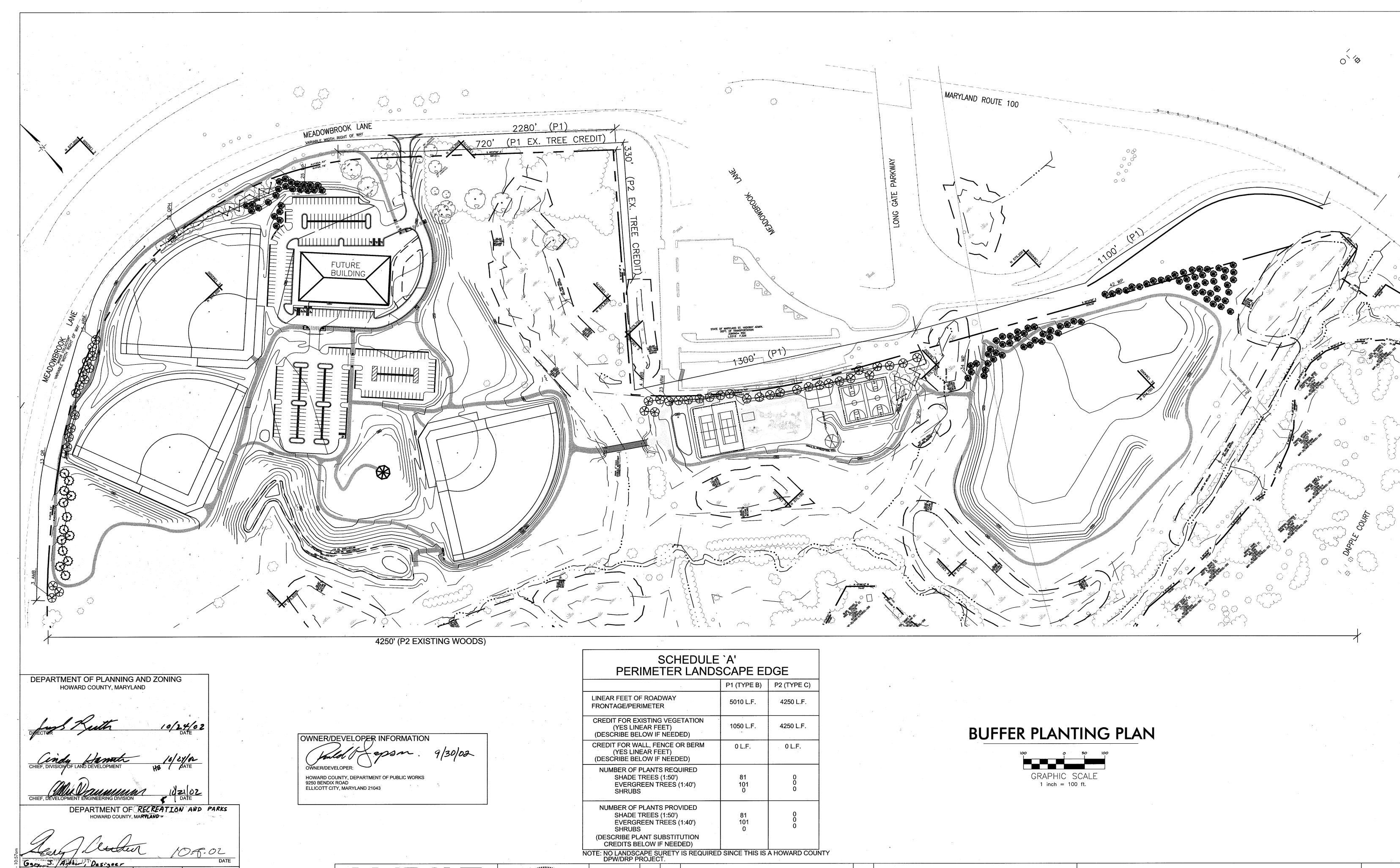
DATE

REVISION

SDP-01-145

SECOND ELECTION DISTRICT





DES: J.S.

DRN: J.S.

CHK: V.D.

DATE: MAY, 2001 BY No.

MAP 30 PARCELS 383 & 387

ZONE TAX/ZONE ELEC. DIST.

SEWER CODE

MEADOWBROOK PARK

WATER CODE

- Meadowbrook Park\Final Development\23-BUFFER PLANTING F

23 OF 29

SDP-01-145

PARCEL 383 & 387 HOWARD COUNTY, MARYLAND

SITE DEVELOPMENT PLAN

MEADOWBROOK PARK

TAX MAP 30

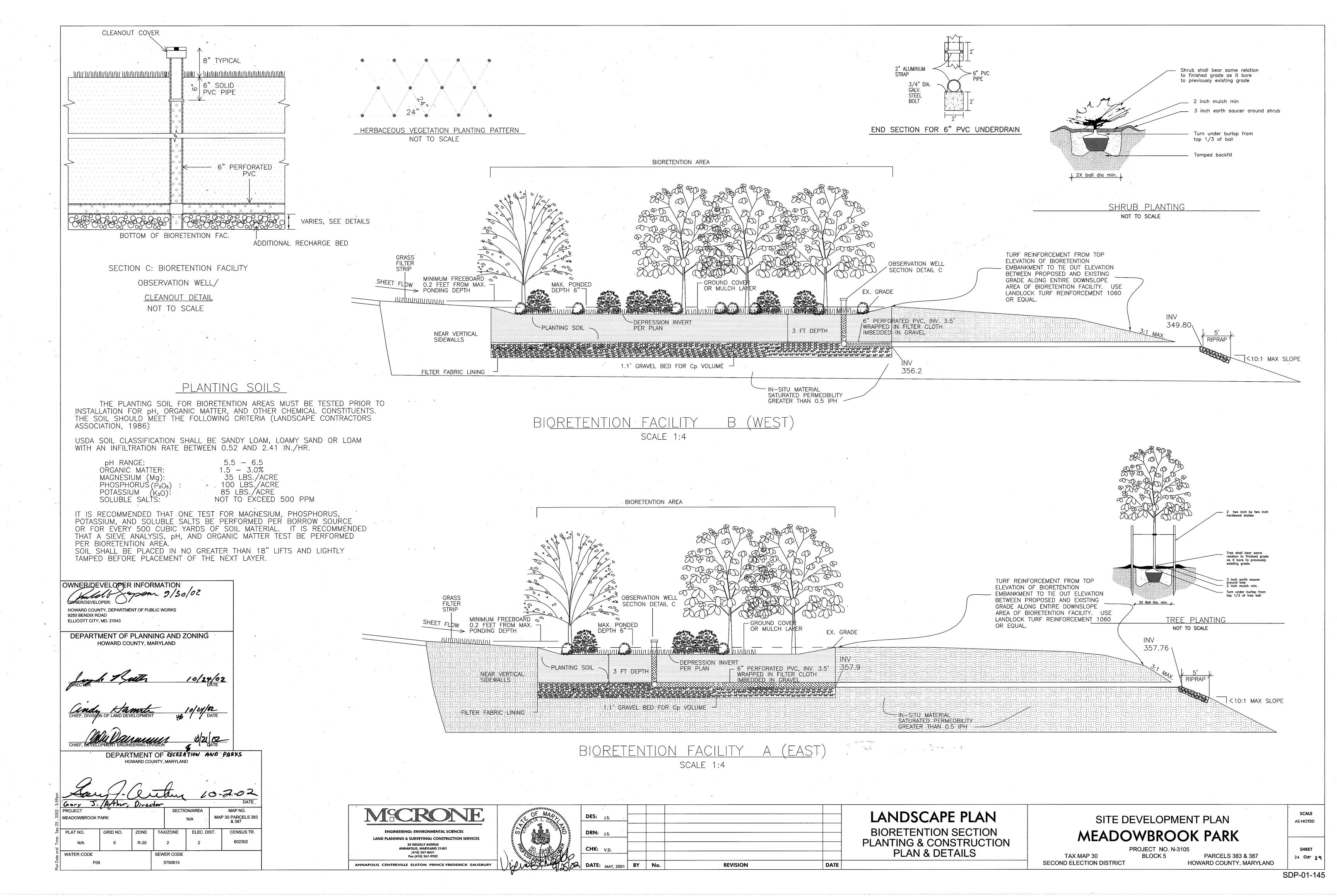
SECOND ELECTION DISTRICT

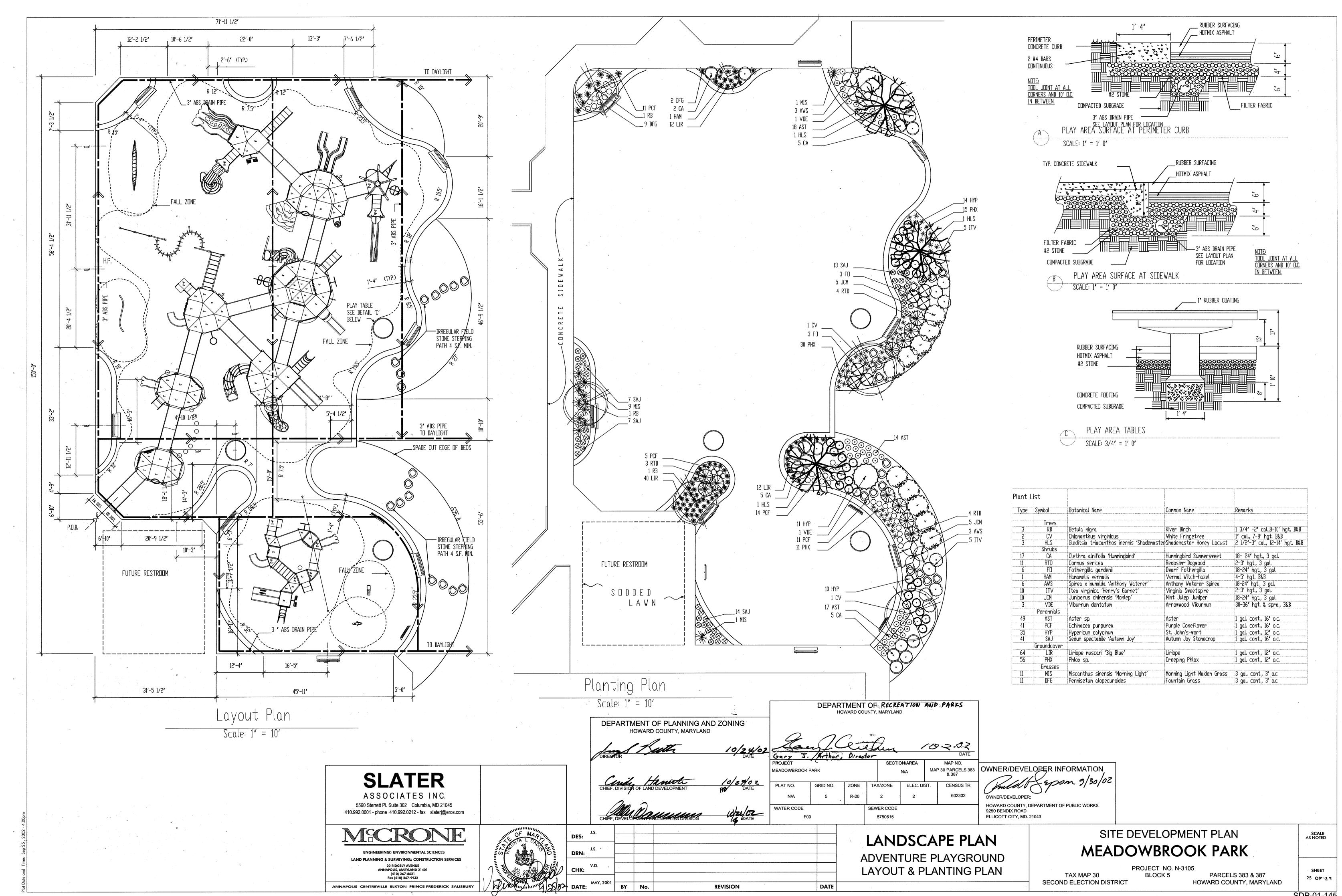
LANDSCAPE PLAN

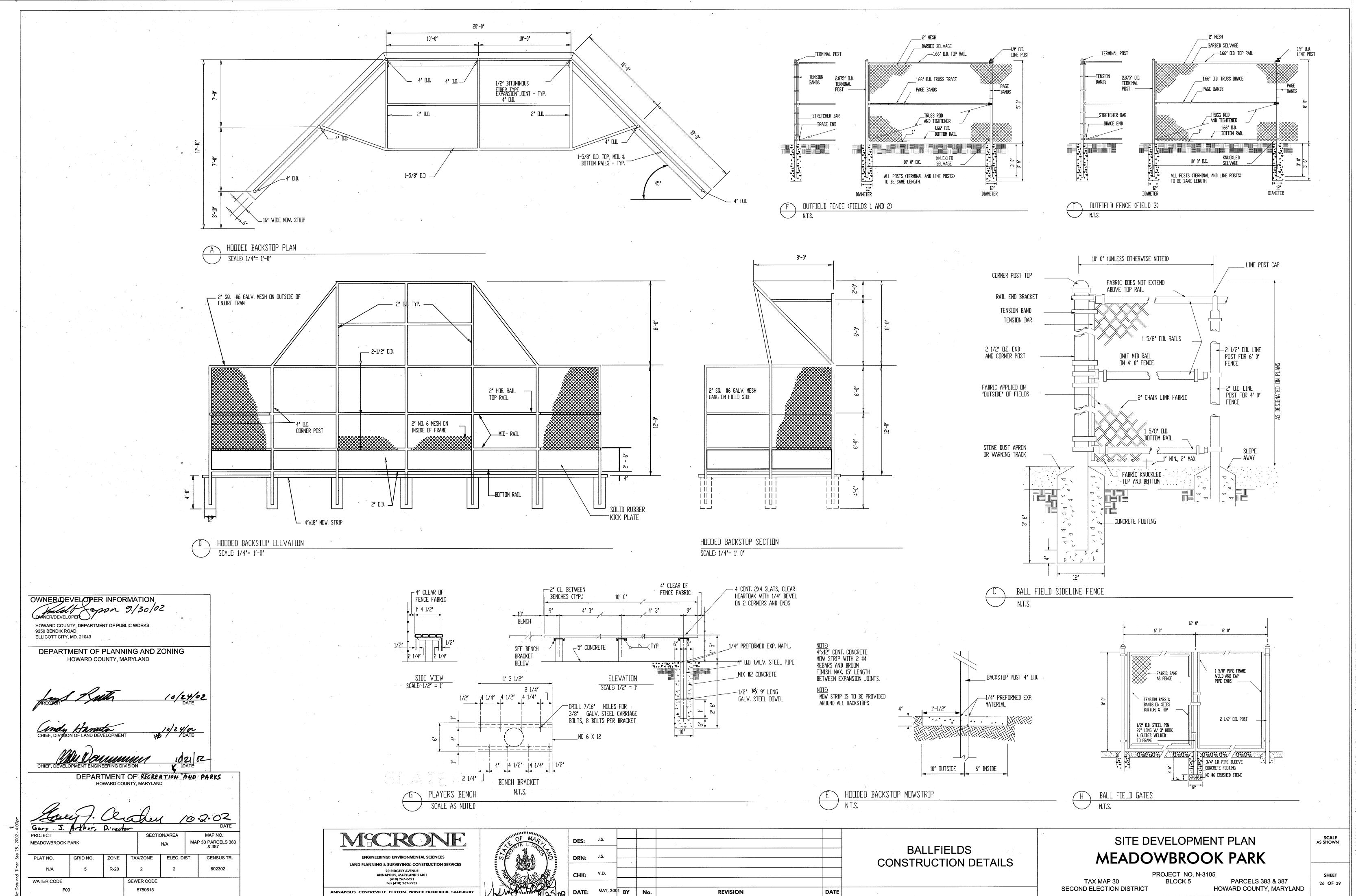
**BUFFER PLANTING PLAN** 

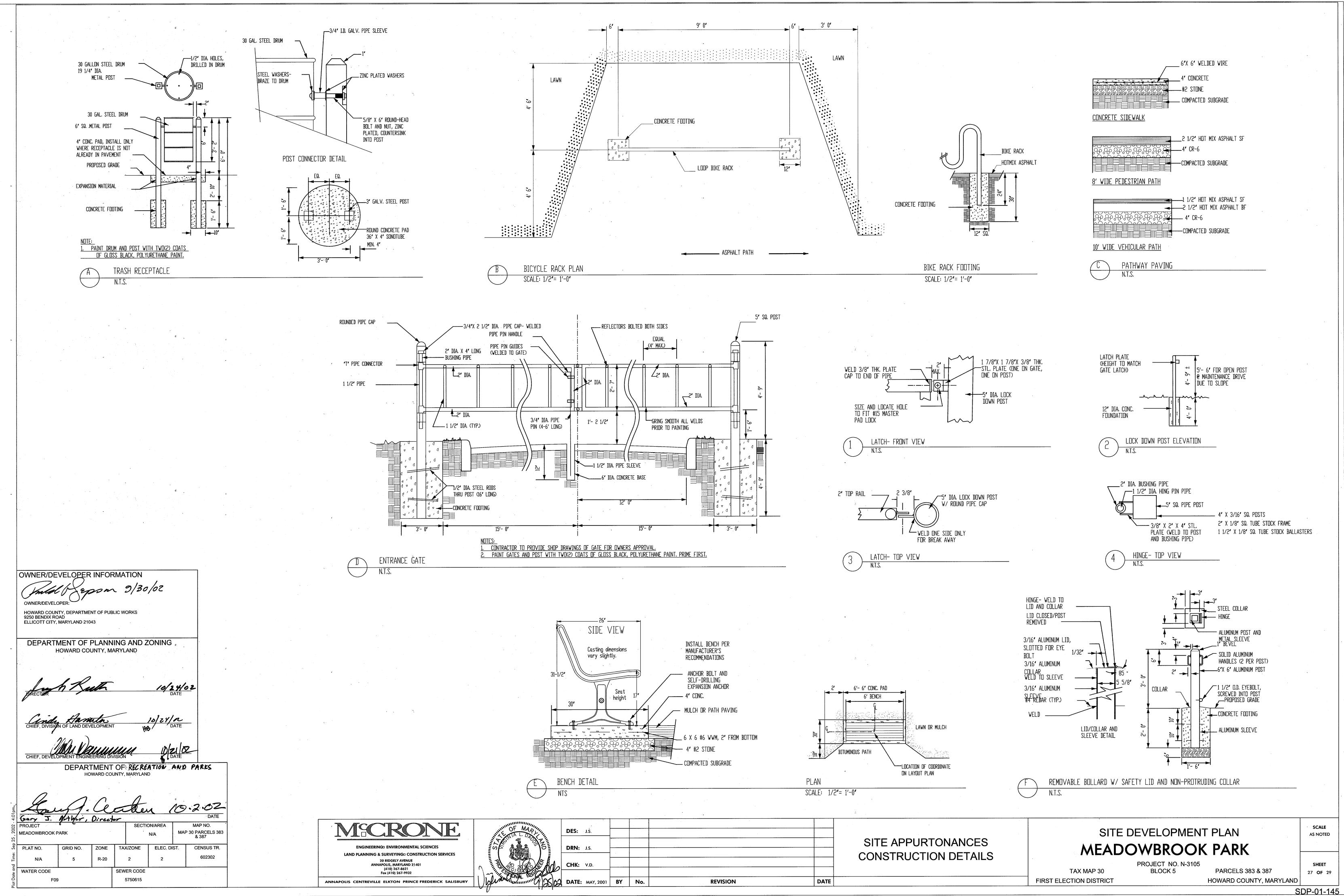
DATE

**REVISION** 

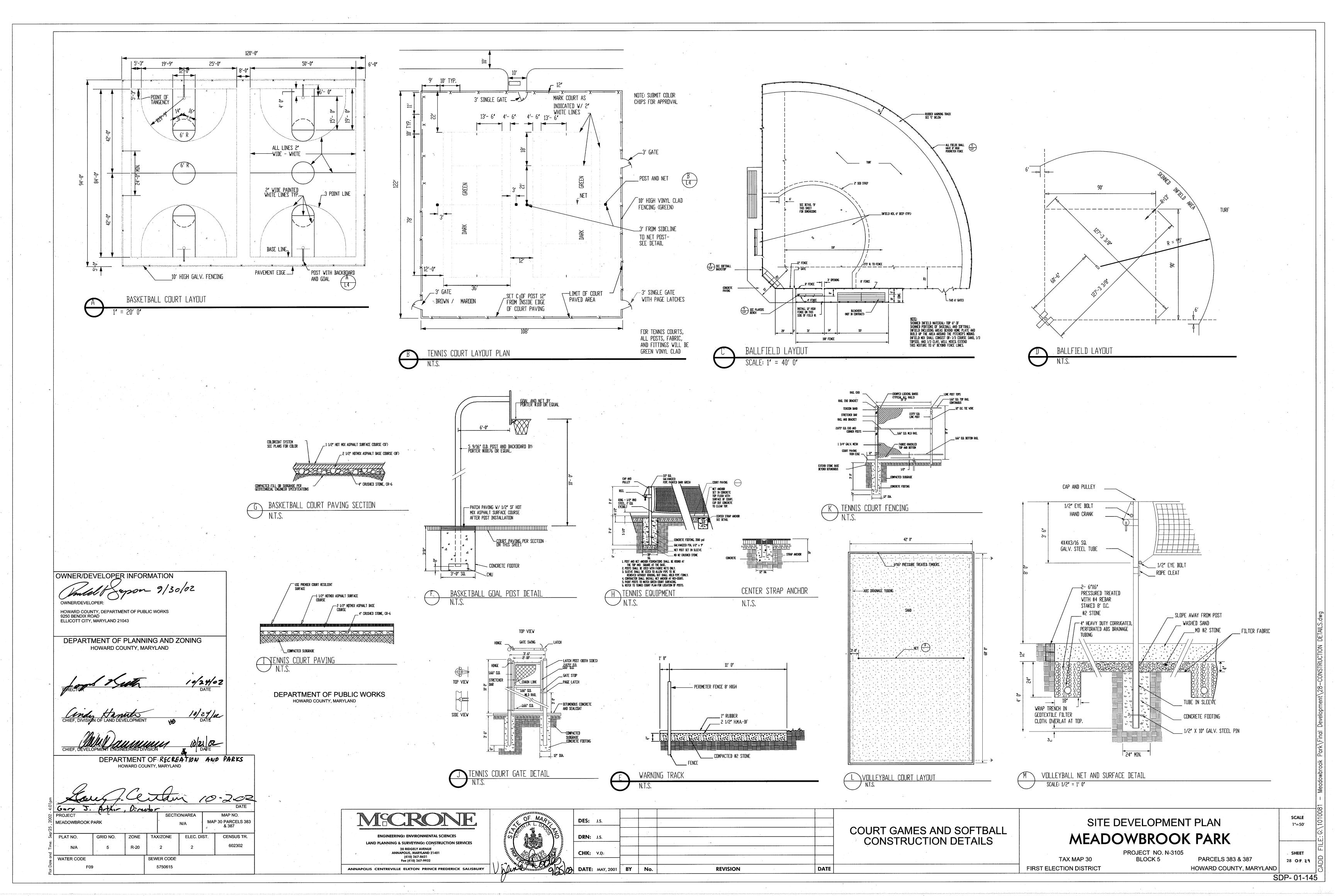


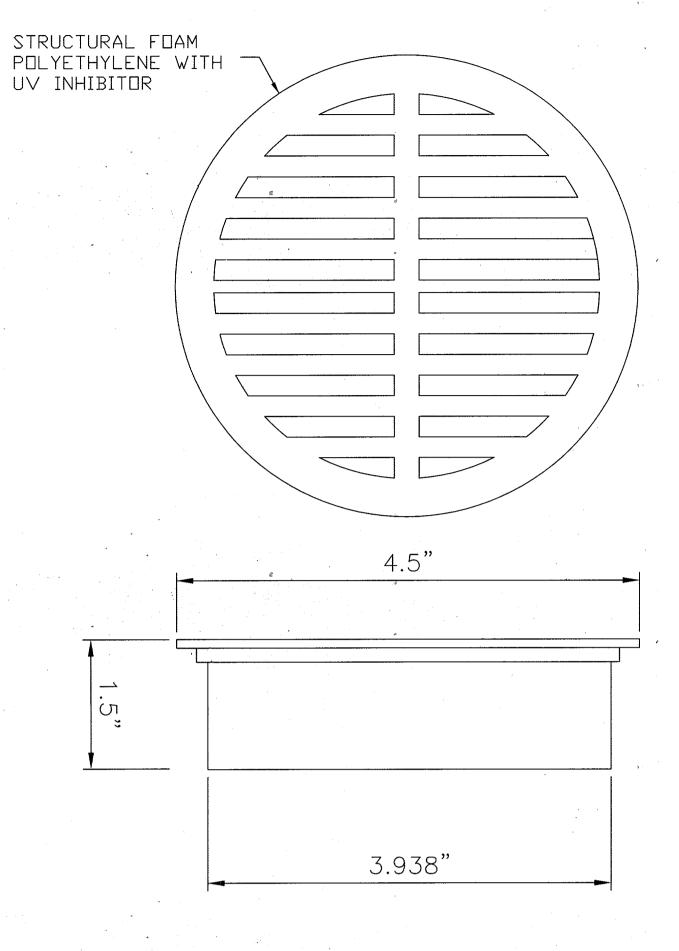






**OF** 29

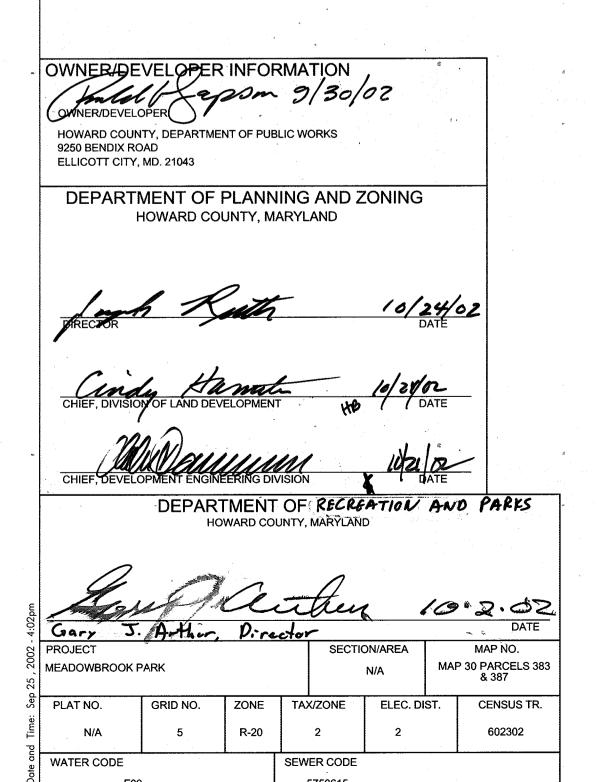


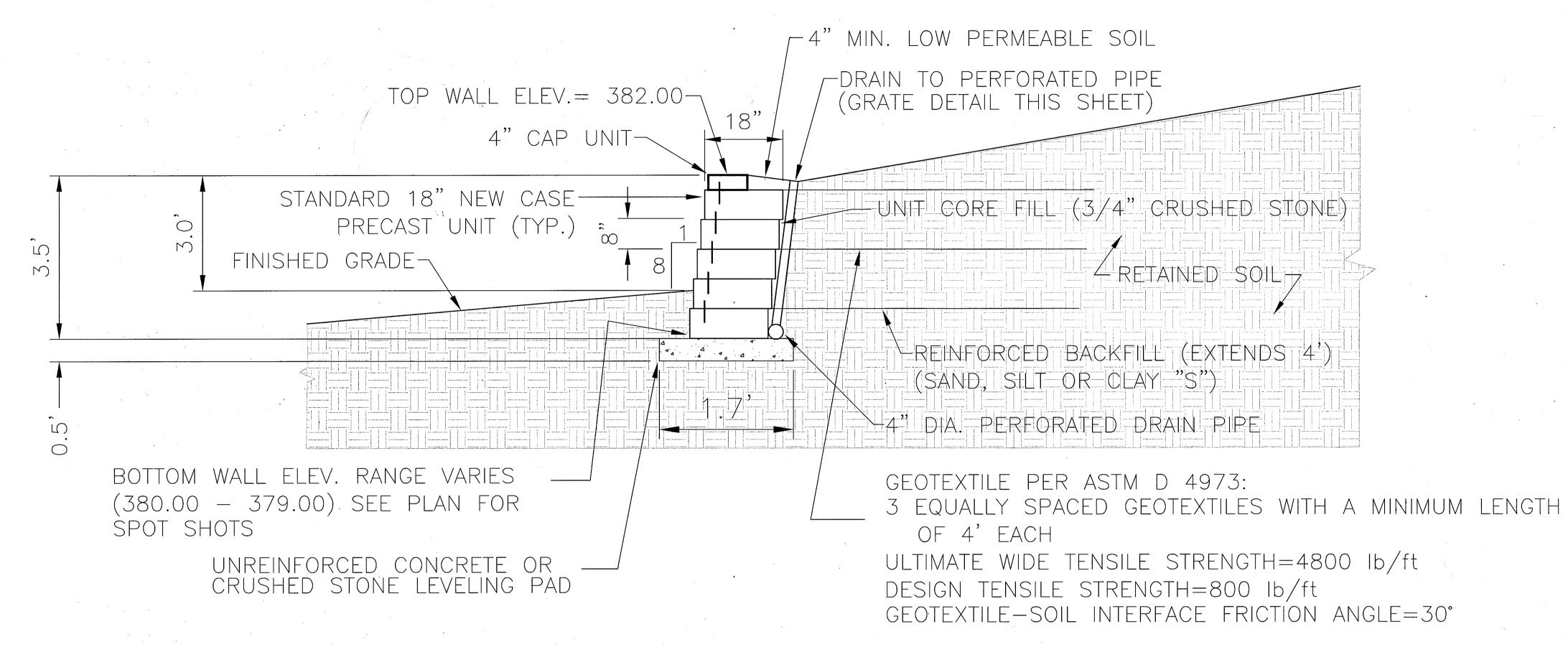


4" ROUND GRATE NOT TO SCALE

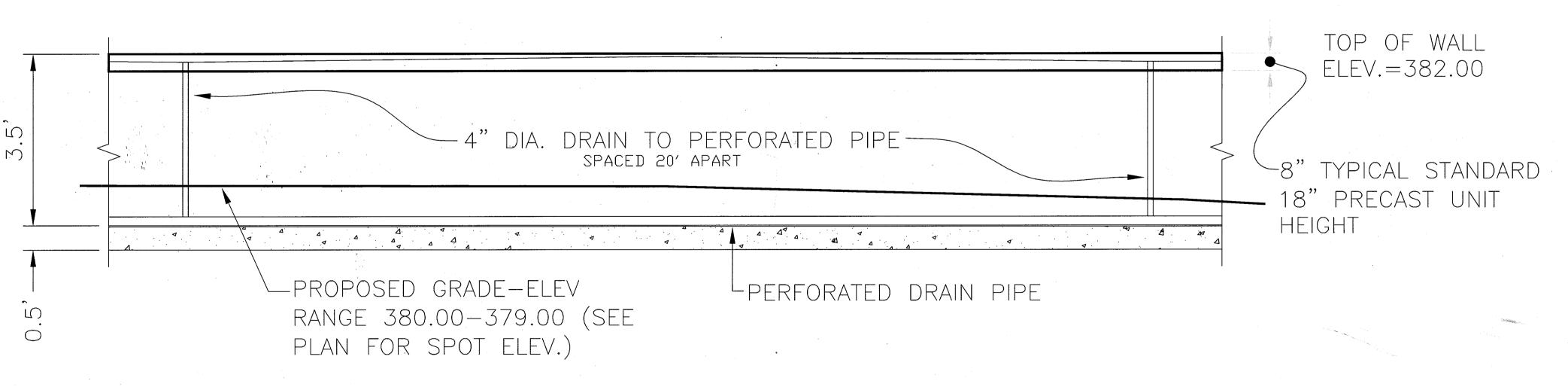
### NOTES

1. THE PROPOSED WALL CONSTRUCTION SHALL BE PERFORMED UNDER THE OBSERVATION OF A MARYLAND REGISTERED PROFESSIONAL ENGINEER. 2. THE FOUNDATION SOIL MUST BE EXAMINED BY THE ENGINEER TO ASSURE THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THE ASSUMED DESIGN

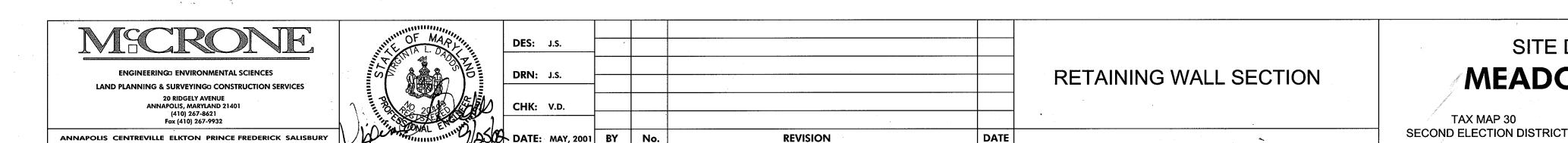




# typical reinforced wall section NOT TO SCALE



TYPICAL REINFORCED WALL ELEVATION NOT TO SCALE



SITE DEVELOPMENT PLAN

MEADOWBROOK PARK

TAX MAP 30

BLOCK 5 PARCEL 383 & 387

HOWARD COUNTY, MARYLAND

29 OF29 SDP-01 - 145