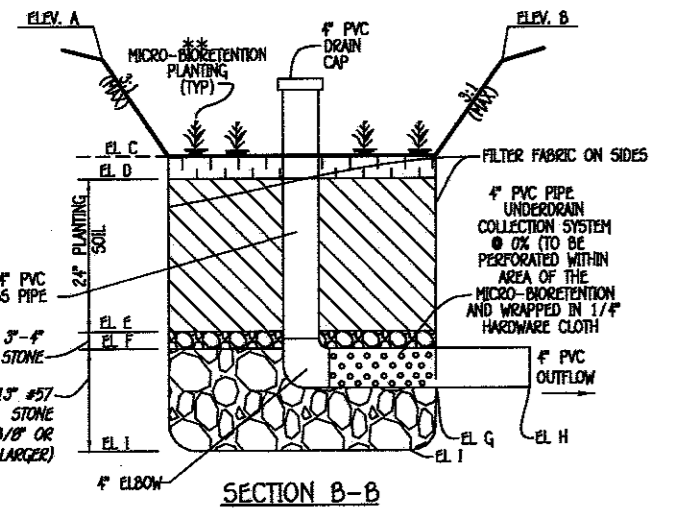
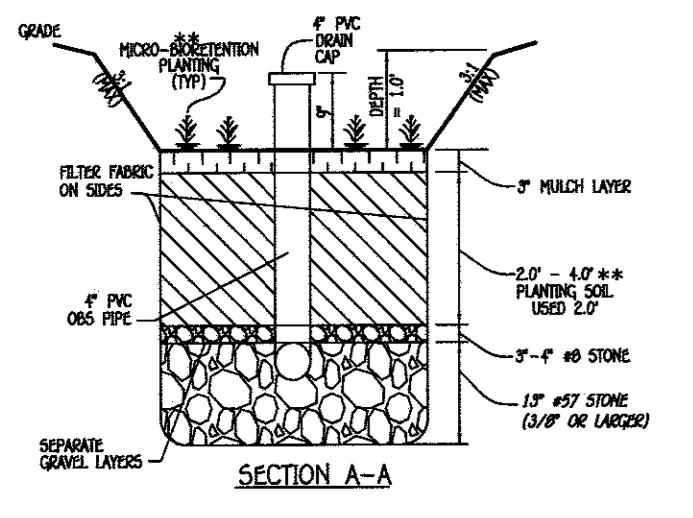
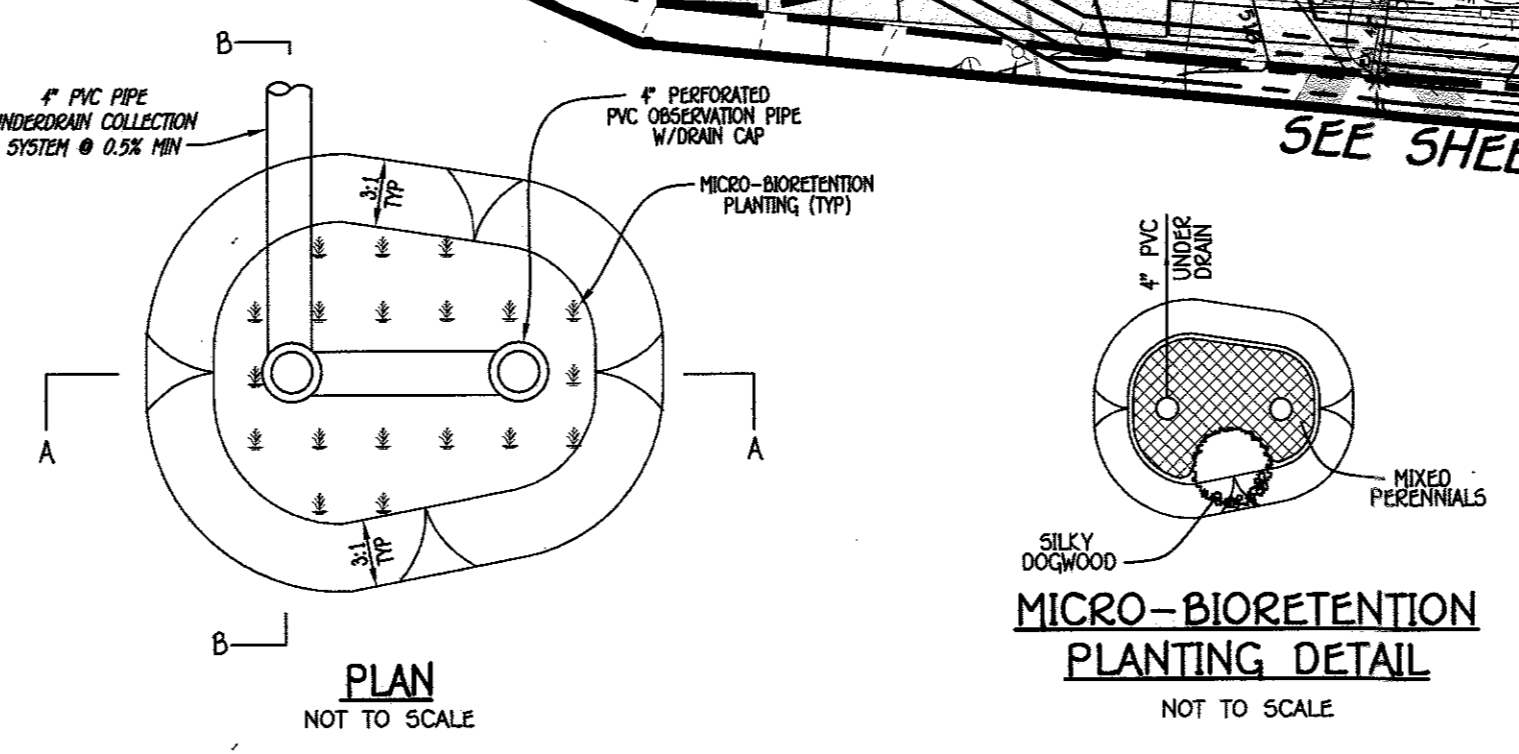


**OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)**

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A-4.1 AND 2. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT. REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL. TREAT DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.



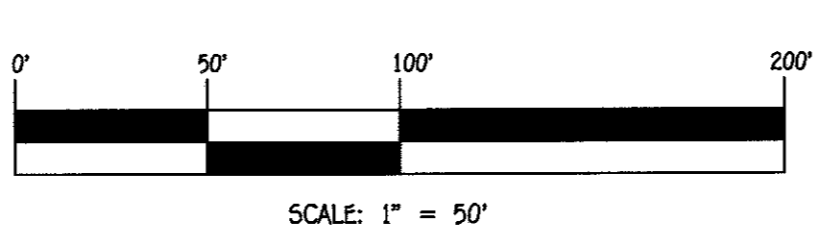
BIORETENTION & MICRO-BIORETENTION PLANT MATERIAL						
QUANTITY MICRO-BIO	QUANTITY MICRO-BIO 2	QUANTITY MICRO-BIO 3	QUANTITY BIO 4	QUANTITY BIO 5	NAME	MAXIMUM SPACING (FT.)
55	70	50	80	70	MIXED PERENNIALS	1.5 TO 3.0 FT.
1	1	1	1	1	SILEY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION



MICRO-BIORETENTION									
BIORETENTION FILTER	A	B	C	D	E	F	G	H	I
1 (LOT 1)	512.00	512.00	511.00	510.75	508.75	508.50	508.25	507.50	507.50
2 (LOT 2)	516.00	516.00	515.00	514.75	512.75	512.50	512.25	511.00	511.50
3 (LOT 4)	533.00	533.00	532.00	532.50	530.50	530.30	530.00	527.00	529.50
4 (LOT 5)	521.00	521.00	520.00	519.75	517.75	517.50	517.25	515.00	516.50
5 (LOT 6)	522.50	522.50	521.50	521.25	519.25	519.00	518.75	518.50	518.00

SPECIMEN TREE TABLE					
KEY	SPECIES	SIZE (DBH)	CRZ (FT RADIUS)	COMMENTS	STATUS
1	SILVER MAPLE	79"	118.5	MULTI-STEMMED ABOVE BH. POOR CONDITION, TRUNK ROT	TO REMAIN
2	ENGLISH WALNUT	40.5"	60.75	POOR CONDITION, TRUNK, ROT, NOT NATIVE	TO REMAIN
3	NORWAY MAPLE	35"	52.5	GOOD CONDITION, NOT NATIVE	TO REMAIN
4	NORWAY MAPLE	39"	58.5	FAIR CONDITION, NOT NATIVE	TO REMAIN
5	NORWAY MAPLE	31"	46.5	GOOD CONDITION, NOT NATIVE	TO REMAIN
6	MULBERRY	35"	52.5	POOR CONDITION, TRUNK, ROT & BROKEN LIMBS	TO REMAIN
7	MULBERRY	37"	55.5	POOR CONDITION, TRUNK, ROT & BROKEN LIMBS	TO REMAIN
8	MULBERRY	42"	63	POOR CONDITION, BROKEN TRUNK & LIMB FAILURE	TO REMAIN
9	BOX ELDER	53.5"	80.25	POOR CONDITION, BROKEN TRUNK & ROT	TO REMAIN

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21114  
 (410) 461-2999



**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38396, EXPIRATION DATE: 01/12/2018.  
 Signature: *Stephanie J. Jurek* 8/16/16  
 Signature of Professional Engineer DATE

**OWNER**  
 ORVILLE E. & PATRICIA L. SHEPHERD  
 (ESTATE OF)  
 5020 TEN OAKS ROAD  
 CLARKSVILLE, MARYLAND 21029  
 C/O JAMES GREENFIELD 443-324-4732

**DEVELOPER**  
 MG LAND HOLDINGS 1, LLC  
 6420 AUTUMN SKY WAY  
 COLUMBIA, MARYLAND 21044  
 443-324-4732

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Ken Shelton* Chief, Division of Land Development **8-16-16** Date  
*Cheryl Smith* Chief, Development Engineering Division **8-16-16** Date

PROJECT	TEN OAKS FARM	SECTION	-	PARCEL NO.	140
DEED	474/263	BLOCK NO.	14	ZONE	RR-DEO
TAX/ZONE	2B	ELEC. DIST.	FIFTH	CENSUS TR.	605103

**ENVIRONMENTAL CONCEPT PLAN**

**TEN OAKS FARM**  
 LOTS 1 THRU 6

ZONED RR-DEO

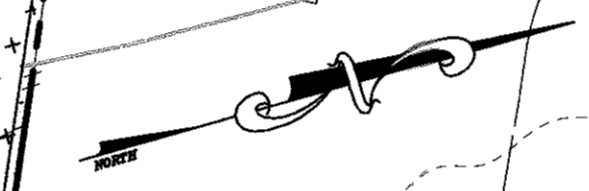
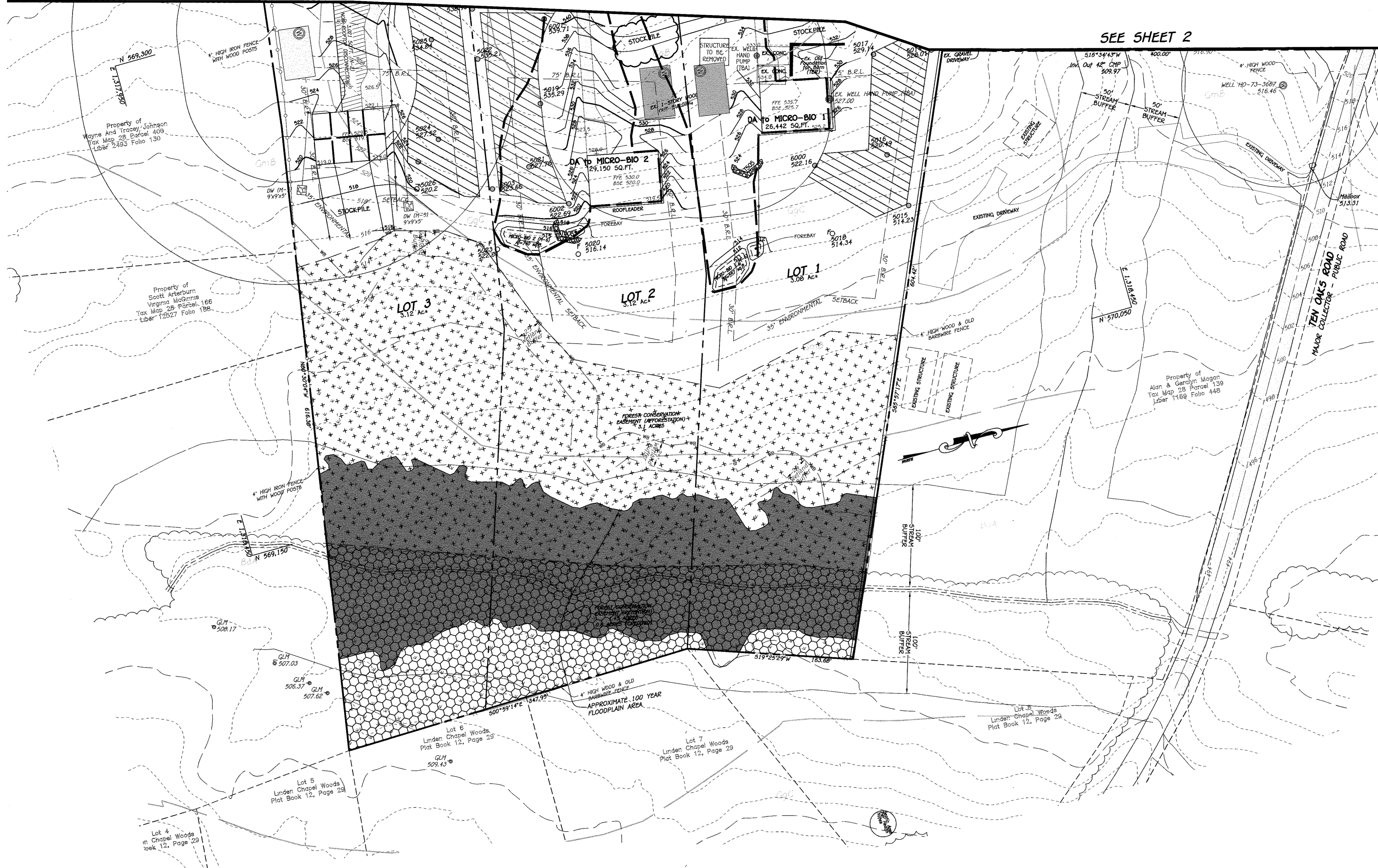
TAX MAP No. 2B GRID No. 14 PARCEL No. 140

FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUGUST, 2016  
 SHEET 2 OF 5 **ECF-16-013**

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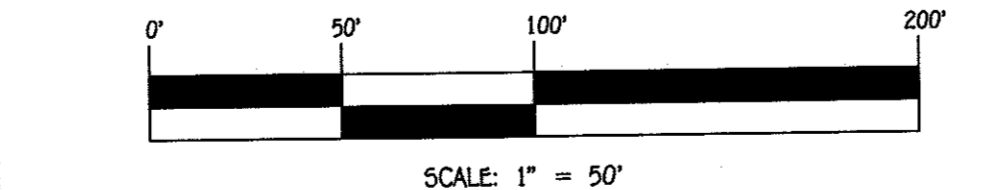
SEE SHEET 2




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 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21032  
 (410) 461 - 2255

NO.	REVISION	DATE	X



**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38396, EXPIRATION DATE: 01/12/2018.  
*Stephanie Lantz* 8/16/16  
 Signature of Professional Engineer      DATE



**OWNER**  
 ORVILLE E. & PATRICIA L. SHEPHERD  
 (ESTATE OF)  
 5020 TEN OAKS ROAD  
 CLARKSVILLE, MARYLAND 21029  
 C/O JAMES GREENFIELD 443-324-4732

**DEVELOPER**  
 HG LAND HOLDINGS 1, LLC  
 6420 AUTUMN SKY WAY  
 COLUMBIA, MARYLAND 21044  
 443-324-4732

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Vest Sealed* 8-16-16  
 Chief, Division of Land Development  
*J.P.* 8-18-16  
 Chief, Development Engineering Division JP

PROJECT		SECTION	PARCEL NO.		
TEN OAKS FARM		-	140		
DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
474/263	14	RR-DEO	2B	FIFTH	605103

ENVIRONMENTAL CONCEPT PLAN

TEN OAKS FARM  
LOTS 1 THRU 6

ZONED RR-DEO

TAX MAP No. 2B GRID No. 14 PARCEL No. 140

FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: AUGUST, 2016

SHEET 3 OF 5 ECP-16-013



**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10722 SALTICREEK NATIONAL PIKE  
 ELLEOTT CITY, MARYLAND 21042  
 (410) 461-2295

NO.	REVISION	DATE	X

SCALE: 1" = 50'

**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 203206, EXPIRATION DATE: 01/12/2018.

*Stephen J. Jure* 8/16/16  
 Signature of Professional Engineer DATE

**OWNER**  
 ORVILLE E. & PATRICIA L. SHEPHERD  
 (ESTATE OF)  
 5020 TEN OAKS ROAD  
 CLARKSVILLE, MARYLAND 21029  
 C/O JAMES GREENFIELD 443-324-4732

**DEVELOPER**  
 MG LAND HOLDINGS 1, LLC  
 6420 AUTUMN SKY WAY  
 COLUMBIA, MARYLAND 21044  
 443-324-4732

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*David J. ...* 8-16-16  
 Chief, Division of Land Development NW Date

*B. ...*  
 Chief, Development Engineering Division JP Date

PROJECT	SECTION	PARCEL NO.			
TEN OAKS FARM	-	140			
DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
474/263	14	RR-DEO	20	FIFTH	605103

PRELIMINARY GRADING & SEDIMENT CONTROL PLAN

**TEN OAKS FARM**  
 LOTS 1 THRU 6  
 ZONED RR-DEO  
 TAX MAP No. 20 GRID No. 14 PARCEL No. 140  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUGUST, 2016  
 SHEET 4 OF 5

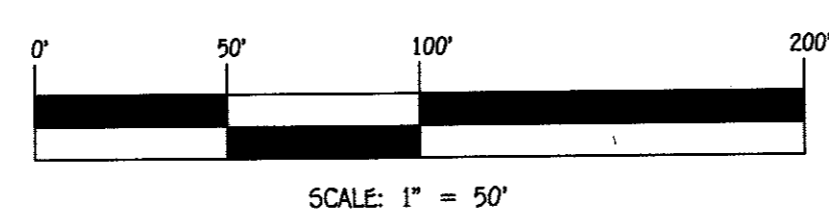
MATCH LINE

SEE SHEET 4



**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 12272 BALTIMORE NATIONAL PKWY.  
 ELLEOTT CITY, MARYLAND 21042  
 (410) 461-2895

NO.	REVISION	DATE	X



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*Stephanie Jantz* 8/16/16  
 Signature of Professional Engineer DATE



**OWNER**  
 ORVILLE E. & PATRICIA L. SHEPHERD  
 (ESTATE OF)  
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 C/O JAMES GREENFIELD 443-324-4732

**DEVELOPER**  
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 6420 AUTUMN SKY WAY  
 COLUMBIA, MARYLAND 21044  
 443-324-4732

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Wesley Schuch* 8-16-16  
 Chief, Division of Land Development Date  
*Wesley Schuch* 8-18-16  
 Chief, Development Engineering Division Date

PROJECT	SECTION	PARCEL NO.			
TEN OAKS FARM	-	140			
DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
474/263	14	RR-DEO	28	FIFTH	605103

PRELIMINARY GRADING & SEDIMENT CONTROL PLAN  
**TEN OAKS FARM**  
 LOTS 1 THRU 6  
 ZONED RR-DEO  
 TAX MAP No. 28 GRID No. 14 PARCEL No. 140  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: AUGUST, 2016  
 SHEET 5 OF 5 **ECP-16-013**

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