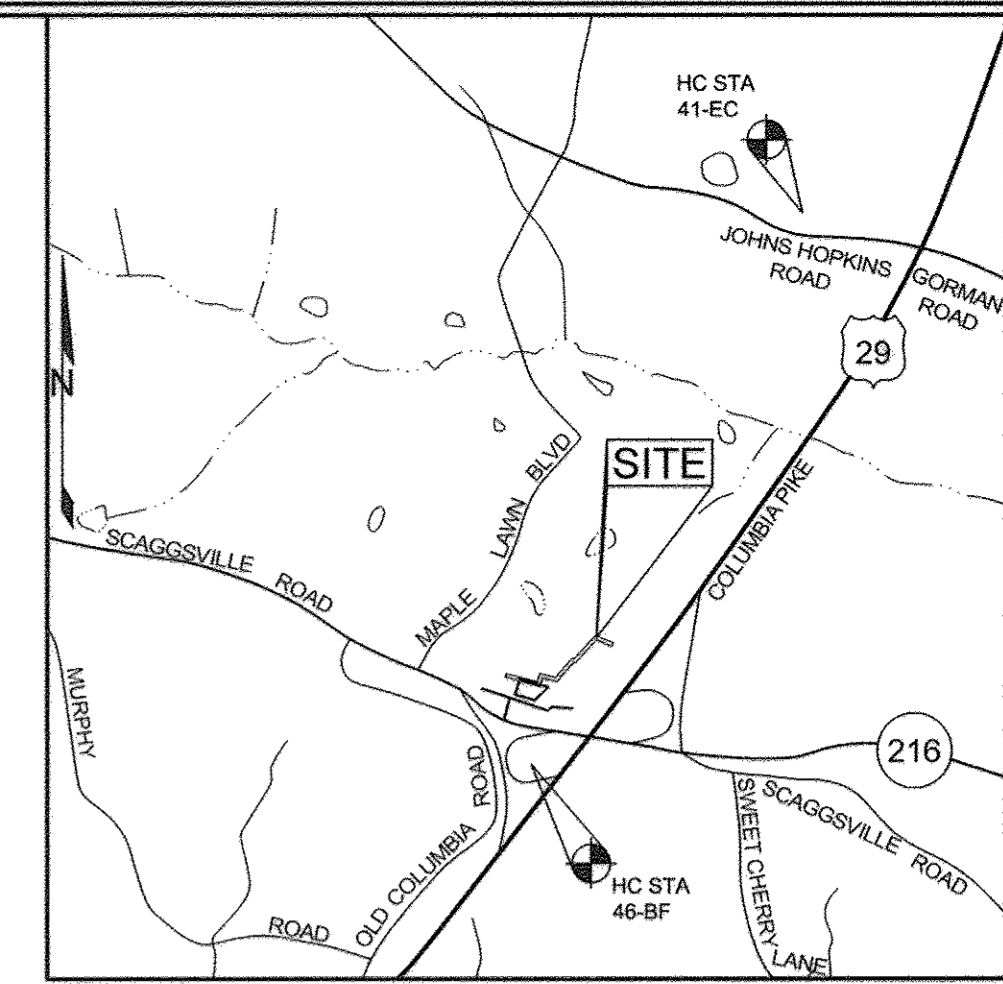


FINAL PUBLIC SEWER PLAN

FULTON CENTRE

PARCELS 176 AND 177

CONTRACT NO. #20-5003-D

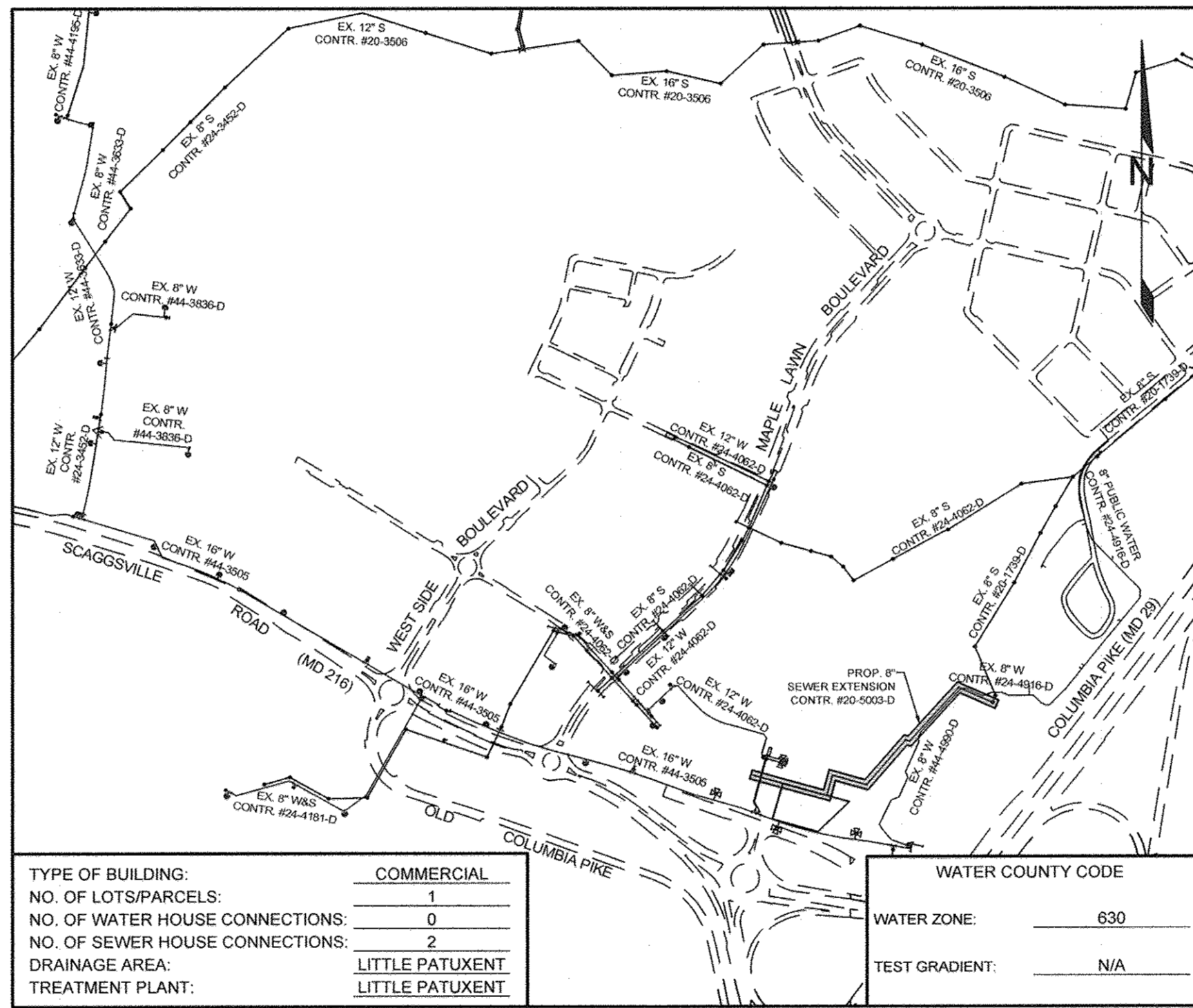


HOWARD COUNTY, MARYLAND ADC MAP 5052 GRID F7
VICINITY MAP
SCALE: 1"=200'

GENERAL NOTES

1. STANDARD GENERAL NOTES
 - a. APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - b. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED FEBRUARY 2016 BY NJR & ASSOCIATES.
 - c. THE COORDINATES ON THE DRAWINGS ARE BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 161B AND NO. 174B.
 - d. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE CONCRETE MONUMENTS.
 - e. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - f. FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
 - g. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - h. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON PLANS:

A.T. & T.	800-252-1133
BGE (CONSTRUCTION SERVICES)	410-637-5713
BGE (EMERGENCY)	410-686-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE COMPANY	410-795-1390
MISS UTILITY	800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	800-742-0933
 - i. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - j. THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - k. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST 5 WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
 - l. THE CONTRACTOR SHALL CONTACT THE BUREAU OF FACILITIES AND THE STATION CHIEF A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF PROPOSED START OF CONSTRUCTION.
 - m. THE CONTRACTOR SHALL HAVE THE CONSTRUCTION PATH STAKED FOR EXISTING UTILITIES BY AN INDEPENDENT UTILITY LOCATOR.
 - n. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO/THROUGH THE FACILITY AT ALL TIMES.
2. SEWER GENERAL NOTES
 - a. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
 - b. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - c. FORCE MAINS SHALL BE D.I.P. ONLY.
 - d. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - e. MANHOLES DESIGNATED W.T. IN PLAN IN PROFILE SHALL HAVE WATER TIGHT FRAME AND COVER. STANDARD DETAIL GS-52. WHERE WATER TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - f. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.



TYPE OF BUILDING:	COMMERCIAL	WATER COUNTY CODE	
NO. OF LOTS/PARCELS:	1	WATER ZONE:	630
NO. OF WATER HOUSE CONNECTIONS:	0	TEST GRADIENT:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	2		
DRAINAGE AREA:	LITTLE PATUXENT		
TREATMENT PLANT:	LITTLE PATUXENT		

LOCATION PLAN
SCALE: 1"=600'

LEGEND

- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING ROAD SIGN
- DIRECTION OF FLOW
- FIRE HYDRANT
- HOUSE CONNECTIONS
- SEWER MANHOLES: TERMINAL, STANDARD, OFFSET
- STORM DRAIN STRUCTURES: INLETS, MANHOLE
- EXISTING SANITARY CLEANOUT
- EXISTING SATELLITE DISH
- EXISTING WELL
- EXISTING TREES
- POST TOP

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
41EC	543588.80	1342628.81	430.19	23' NE OF TRAFFIC SIGNAL POLE, 5' SW OF PC OF JOHN HOPKINS ROAD
46BF	538448.15	1340010.49	446.61	95.7' E OF STORM DRAIN ON RT. 29 S ON RAMP, 19.4' W OF LIGHT POLE #10, 4' S OF SIDEWALK

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	FINAL PUBLIC SEWER PLAN
3	FINAL PUBLIC SEWER PROFILE

PARCEL	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
PARCEL 176	FUTURE OFFICE BUILDING	4' TO SWMH SE CORNER OF METAL BUILDING	11' TO SMH-106
PARCEL 288	11226 Rte. 216	8' TO SMH-106	10' TO SMH-105

ITEMS	QUANTITIES ESTIMATED	QUANTITIES		AS-BUILT	
		QUANTITIES	TYPE	TYPE	MANUFACTURER/SUPPLIER
8" PVC SDR 35 (SEWER)	596 LF	592 LF	SDR-35	NORTH AMERICAN	CORE & MAIN
8" DIP CLASS 52 (SEWER)	775 LF	775 LF	CLASS 52 DIO	TYTON JOINT	CORE & MAIN
8" SDC		24 LF	SDR-35	NORTH AMERICAN	CORE & MAIN
SEWER MANHOLE	6 EA	6 EA	PRECAST	CP&P	
OFFSET SEWER MANHOLE	1 EA	1 EA	PRECAST	CP&P	

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS AND WITH GRADING PLAN GP-18-024.

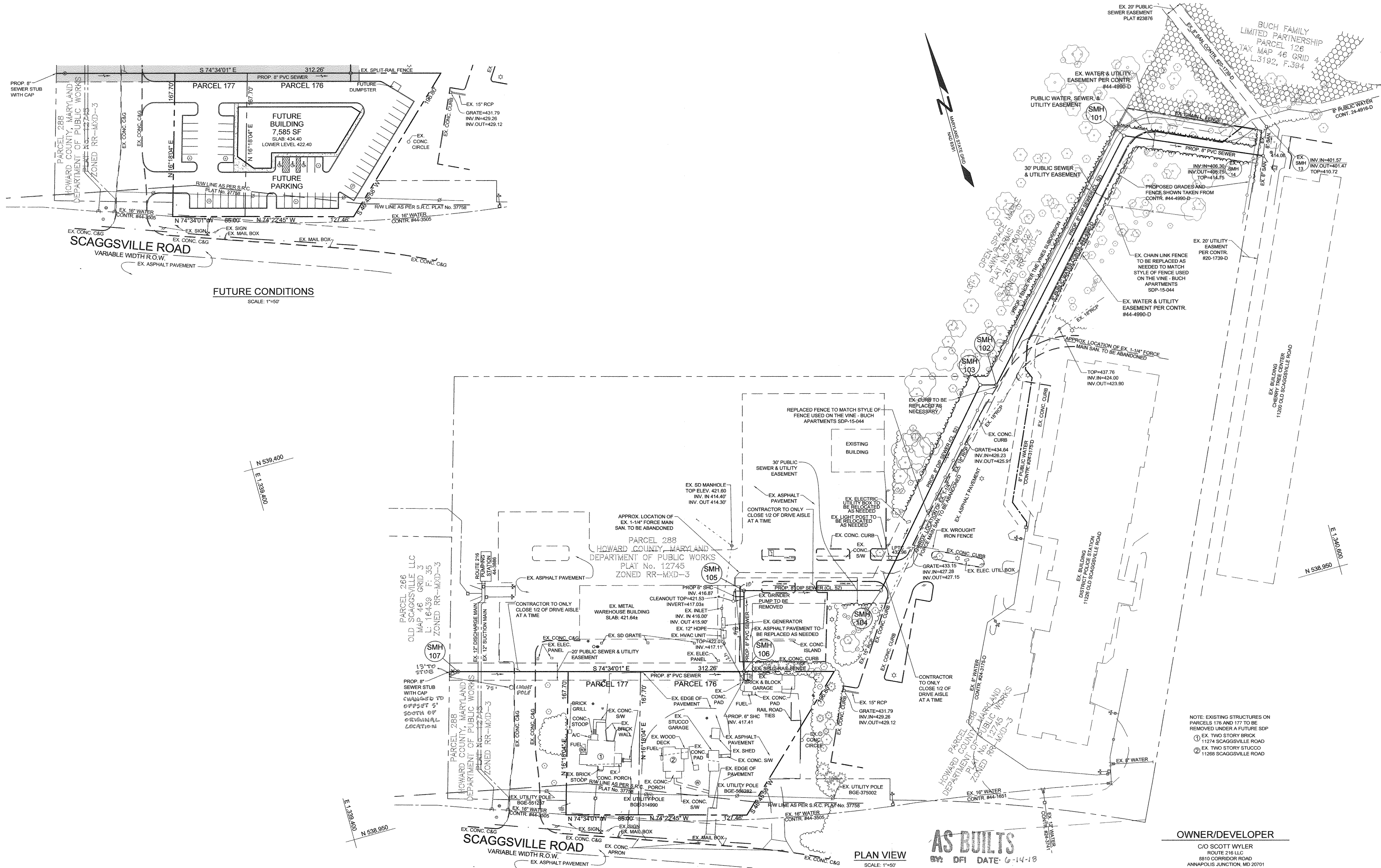
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

 DATE: 11/14/17

AS BUILTS
 0% DFI DATE: 6-14-18

OWNER/DEVELOPER
 C/O SCOTT WYLER
 ROUTE 216 LLC
 8810 CORRIDOR ROAD
 ANNAPOLIS JUNCTION, MD 20701

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 11/13/17	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DATE: 12/12/17	SILL ENGINEERING GROUP, LLC 11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104 Phone: 413.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGNED BY: PS DRAWN BY: MPO CHECKED BY: PS DATE: OCTOBER 30, 2017	NO. _____ DESCRIPTION _____ DATE _____ NO. _____ DESCRIPTION _____ DATE _____ NO. _____ DESCRIPTION _____ DATE _____	FINAL COVER SHEET 600' SCALE MAP NO. 46 BLOCK NO. 04	FULTON CENTRE 11274 & 11268 SCAGGSVILLE ROAD TAX MAP 46 GRID 4 PARCELS 176 AND 177 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 20-5003-D	SCALE: AS SHOWN SHEET NO. 1 OF 5
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FUTURE CONDITIONS
SCALE: 1"=50'

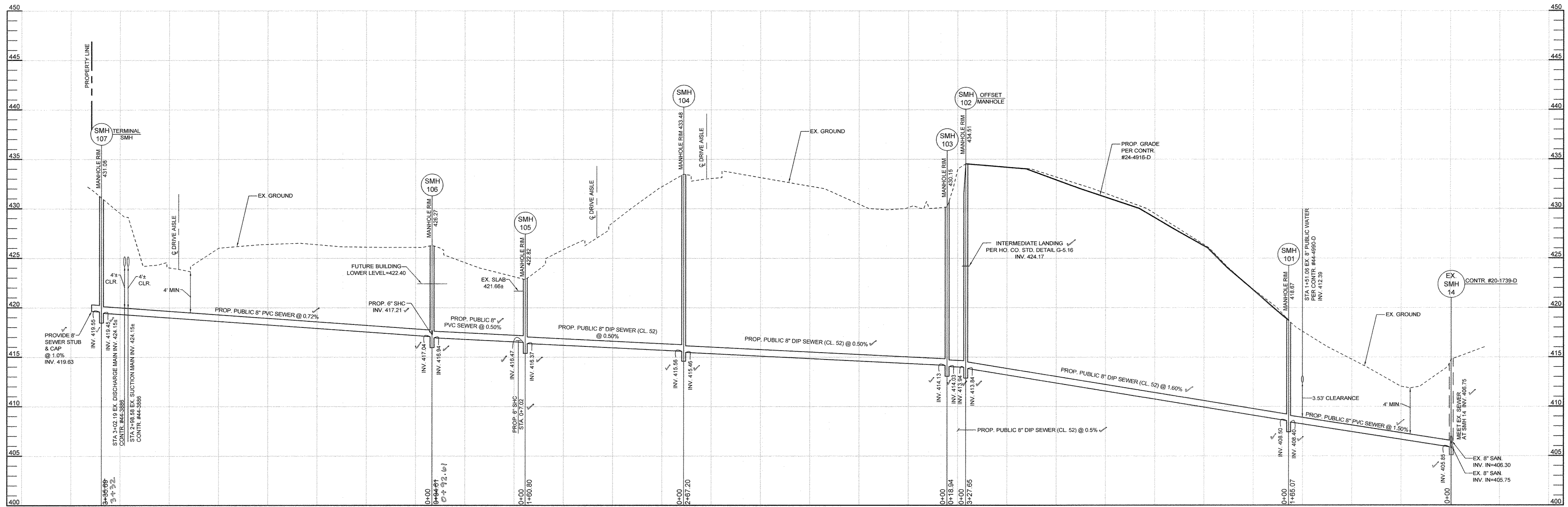
PLAN VIEW
SCALE: 1"=50'

AS BUILT
BY: DFI DATE: 6-14-18

OWNER/DEVELOPER
C/O SCOTT WYLER
ROUTE 216 LLC
5810 CORRIDOR ROAD
ANNAPOLIS JUNCTION, MD 20701

NOTE: EXISTING STRUCTURES ON PARCELS 176 AND 177 TO BE REMOVED UNDER A FUTURE SDP
 ① EX. TWO STORY BRICK 11274 SCAGGSVILLE ROAD
 ② EX. TWO STORY STUCCO 11268 SCAGGSVILLE ROAD

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p>CHIEF, BUREAU OF UTILITIES DATE: 11/14/17</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p>CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 12/13/17</p>	<p>SILL ENGINEERING GROUP, LLC 11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104 Phone: 413.325.5976 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development</p>	<p>DESIGNED BY: PS DRAWN BY: MPO CHECKED BY: PS DATE: OCTOBER 30, 2017</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:5%;">NO.</th> <th style="width:80%;">DESCRIPTION</th> <th style="width:15%;">DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	DATE										<p style="text-align: center;">FINAL PUBLIC SEWER PLAN</p> <p>600' SCALE MAP NO. 46 BLOCK NO. 04</p>	<p style="text-align: center;">FULTON CENTRE 11274 & 11268 SCAGGSVILLE ROAD</p> <p>TAX MAP 46 GRID 4 5TH ELECTION DISTRICT</p> <p style="text-align: right;">PARCELS 176 AND 177 HOWARD COUNTY, MARYLAND</p> <p style="text-align: center;">CONTRACT NO. 20-5003-D</p>	<p>SCALE: AS SHOWN</p> <p>SHEET NO. 2 OF 5</p>
NO.	DESCRIPTION	DATE																	



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

SEWER MANHOLES						
NUMBER	NORTHING	EASTING	TOP ELEV.	INV. IN	INV. OUT	TYPE
101	539,503.85	1,340,489.68	418.67	408.50	408.40	STANDARD
102	539,262.45	1,340,267.91	434.51	413.94	413.84	OFFSET
103	539,267.49	1,340,249.66	430.15	414.13	414.03	STANDARD
104	539,066.57	1,340,073.51	433.48	415.56	415.46	STANDARD
105	539,109.18	1,339,918.46	422.82	416.47	416.37	STANDARD
106	539,017.95	1,339,893.39	428.27	417.04	416.94	STANDARD
107	539,107.28	1,339,569.80	431.93	419.55*	419.45	STANDARD

* INV. IN FROM 8" STUB CONNECTION

AS BUILTS
DATE: 6-14-18

OWNER/DEVELOPER
C/O SCOTT WYLER
ROUTE 216 LLC
8810 CORRIDOR ROAD
ANNAPOLIS JUNCTION, MD 20701

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION	 SILL ENGINEERING GROUP, LLC 11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGNED BY: PS DRAWN BY: MPO CHECKED BY: PS DATE: OCTOBER 30, 2017	NO. DESCRIPTION DATE	600' SCALE MAP NO. 46 BLOCK NO. 04	TAX MAP 46 GRID 4 5TH ELECTION DISTRICT	PARCELS 176 AND 177 HOWARD COUNTY, MARYLAND	SCALE: AS SHOWN SHEET NO. 3 OF 5
			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. 32025, EXPIRATION DATE: JUNE 30, 2019					

SEDIMENT CONTROL NOTES

- 1. PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS... CONSTRUCTION INSPECTION DIVISION (CID)... 2. PRIOR TO THE START OF EARTH DISTURBANCE... 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE... 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED... 7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING... 10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION... 11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT... 12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT APPROVED WASHOUT STRUCTURE... 13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ON FINAL GRADE... 14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON THE CONTOUR... 15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS... 16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL... * EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES... ** TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
a. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND;
b. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE, NOT UNDER ACTIVE GRADING.
DURING GRADING AND AFTER GRADING, THE CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

- DEFINITION: A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.
PURPOSE: TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.
CONDITIONS WHERE PRACTICE APPLIES: STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.
CRITERIA:
1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN...
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING...
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE...
4. ACCESS THE STOCKPILE AREA FROM THE UPSHADE SIDE...
5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE...
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE...
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION...
8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO PREVENT SOIL STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.
MAINTENANCE: THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4-2 VEGETATIVE STABILIZATION... SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO... THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION... IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

- TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.
PURPOSE: TO USE LONG-LEVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.
CONDITIONS WHERE PRACTICE APPLIES: EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.
CRITERIA:
A. SOIL PREPARATION
1. GENERAL USE
a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE...
b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES...
c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES...
d. FOR AREAS RECEIVING LOW MAINTENANCE...
e. TURFGRASS MIXTURES
2. TURFGRASS MIXTURES
a. AREAS WHERE TURFGRASS MAY BE DESIRED...
b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW...
c. PURPOSE: ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES...
i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE...
ii. KENTUCKY BLUEGRASS-PERENNIAL RYE...
iii. TALL FESCUE/KENTUCKY BLUEGRASS...
iv. KENTUCKY BLUEGRASS/FINE FESCUE...
d. IDEAL TIMES OF SEEDING FOR TURF GRASSES...
e. CENTRAL MD, MARCH 15 TO JUNE 15...
f. SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15...
g. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS...
h. WASH WATER FROM ANY EQUIPMENT...
i. TOPSOIL SHALL BE STOCKPILED...
j. ALL SILT FENCE AND SUPER SILT FENCE...
k. STREAM CHANNELS MUST NOT BE DISTURBED...
l. A COPY OF THIS PLAN...
* EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES...
** TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

- DEFINITION: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.
CONDITIONS WHERE PRACTICE APPLIES: WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.
CRITERIA:
A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL...
b. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL...
c. OTHER SUITABLE MEANS
2. PERMANENT STABILIZATION
a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE...
b. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE...
c. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL...
d. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE...
e. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH...
f. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION...
g. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA...
h. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND...
i. TOPSOIL MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS...
j. APPLICATIONS
1. Apply mulch to all seeded areas immediately after seeding...
2. Wood cellulose fiber mulch as much as possible...
3. Anchoring
a. Perform mulch anchoring immediately following application...
b. A mulch anchoring tool is a tractor drawn implement...
c. Synthetic binders such as Acrylic DLR (Agro-Tack)...
3. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS...
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION...
3. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED...
4. LIME MATERIALS MUST BE GROUND LIMESTONE...
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS...
B. SOD TO PROVIDE QUICK COVER ON DISTURBED AREAS
1. GENERAL SPECIFICATIONS
a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED...
b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS...
c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH...
2. SOD INSTALLATION
a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE...
b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE...
c. WEDGE AGAINST EACH OTHER...
d. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL...
e. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...
3. SOD MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL...
b. AFTER THE FIRST WEEK...
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...
4. SOD INSTALLATION
a. IN THE ABSENCE OF ADEQUATE RAINFALL...
b. AFTER THE FIRST WEEK...
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...
4. SOIL MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL...
b. AFTER THE FIRST WEEK...
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

- TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.
PURPOSE: TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.
CONDITIONS WHERE PRACTICE APPLIES: EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS.
CRITERIA:
1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE...
2. LIME RATES MUST BE PUT ON THE PLAN...
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON...
4. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS...
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION...
3. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED...
4. LIME MATERIALS MUST BE GROUND LIMESTONE...
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS...
B. SOD TO PROVIDE QUICK COVER ON DISTURBED AREAS
1. GENERAL SPECIFICATIONS
a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED...
b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS...
c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH...
2. SOD INSTALLATION
a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE...
b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE...
c. WEDGE AGAINST EACH OTHER...
d. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL...
e. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...
3. SOD MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL...
b. AFTER THE FIRST WEEK...
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

- DEFINITION: THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.
PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.
CONDITIONS WHERE PRACTICE APPLIES: WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.
CRITERIA:
A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL...
b. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL...
c. OTHER SUITABLE MEANS
2. PERMANENT STABILIZATION
a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE...
b. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE...
c. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL...
d. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE...
e. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH...
f. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION...
g. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA...
h. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND...
i. TOPSOIL MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS...
j. APPLICATIONS
1. Apply mulch to all seeded areas immediately after seeding...
2. Wood cellulose fiber mulch as much as possible...
3. Anchoring
a. Perform mulch anchoring immediately following application...
b. A mulch anchoring tool is a tractor drawn implement...
c. Synthetic binders such as Acrylic DLR (Agro-Tack)...
3. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS...
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION...
3. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED...
4. LIME MATERIALS MUST BE GROUND LIMESTONE...
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS...
B. SOD TO PROVIDE QUICK COVER ON DISTURBED AREAS
1. GENERAL SPECIFICATIONS
a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED...
b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS...
c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH...
2. SOD INSTALLATION
a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE...
b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE...
c. WEDGE AGAINST EACH OTHER...
d. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL...
e. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...
3. SOD MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL...
b. AFTER THE FIRST WEEK...
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING...

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

- DEFINITION: THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.
PURPOSE: TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.
CONDITIONS WHERE PRACTICE APPLIES: TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.
CRITERIA:
A. SEEDING
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law...
b. Multiple seeds may be applied...
c. Inoculants: The inoculant for treating legume seed...
d. Application
i. Dry Seeding: This includes use of conventional drop or broadcast spreaders...
ii. Mulch Seeding: Mechanical seeders...
iii. Hydroseeding: Apply seed uniformly with hydroseeder...
2. Mulching
1. Materials (in order of preference)
a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley...
b. Wood Cellulose Fiber Mulch (WCFFM) consisting of specially prepared wood mulch processed into a uniform fibrous physical state...
2. Application
a. Apply mulch to all seeded areas immediately after seeding...
b. When straw mulch is used...
c. Wood cellulose fiber mulch...
3. Anchoring
a. Perform mulch anchoring immediately following application...
b. A mulch anchoring tool is a tractor drawn implement...
c. Synthetic binders such as Acrylic DLR (Agro-Tack)...
3. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
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2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION...
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4. LIME MATERIALS MUST BE GROUND LIMESTONE...
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TABLE B.1: TEMPORARY SEEDING FOR SITE STABILIZATION

Table with 7 columns: PLANT SPECIES, SEEDING RATE (LB/AC, LB/1000 FT^2), SEEDING DEPTH (INCHES), RECOMMENDED SEEDING DATES BY PLANT HARDINESS ZONE (5b & 6a, 6b, 7a & 7b). Rows include Annual Ryegrass, Barley, Oats, Wheat, Cereal Rye, Pearl Millet, Foxtail Millet, and Turfgrass Mixtures.

NOTES:
1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS)...
2. SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS...
3. SEEDING RATES LISTED ABOVE ARE AVERAGES FOR EACH ZONE...

TABLE B.5: RECOMMENDED PLANTING DATES FOR PERMANENT COVER IN MARYLAND

Table with 4 columns: TYPE OF PLANT MATERIAL, PLANT HARDINESS ZONES (5b & 6a, 6b, 7a & 7b). Rows include Cool-Season Grasses, Warm-Season Grasses, Sod, and Unrooted Woody Materials.

NOTES:
1. THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE...
2. THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE...
3. WARM-SEASON GRASSES NEED A SOIL TEMPERATURE OF AT LEAST 50 DEGREES F IN ORDER TO GERMINATE...
4. ADDITIONAL PLANTING DATES FOR THE LOWER COSTAL PLAIN...
5. ADDITIONAL PLANTING DATES DURING WHICH SUPPLEMENTAL WATERING MAY BE NEEDED TO ENSURE PLANT ESTABLISHMENT...

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT (410) 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
3. INSTALL SILT FENCE AND SILT FENCE ON PAVEMENT (1 WEEK).
4. CLEAR AND GRUB SITE (1 WEEK).
5. CONSTRUCT SEWER, PLACING SPOLLS ON UPHILL SIDE OF TRENCH (1 MONTH).
6. FOR SEWER MAINS LOCATED WITHIN EXISTING PAVING, WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SILT FENCE ON PAVEMENT ONCE ASPHALT PATCH IS IN PLACE.
7. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREA (1 WEEK).

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
12/19/17

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
12-19-17

SILL ENGINEERING GROUP, LLC
11130 Dovedale Court, Suite 200
Marriottsville, Maryland 21104
Phone: 443.325.5076
Fax: 410.694.3023
Email: info@sillengineering.com
Civil Engineering for Land Development

STATE OF MARYLAND
PROFESSIONAL ENGINEER
DESIGNED BY: PS
DRAWN BY: MPO
CHECKED BY: PS
DATE: OCTOBER 30, 2017

SEDIMENT AND EROSION CONTROL NOTES
600' SCALE MAP NO. 46
BLOCK NO. 04

AS BUILT
DATE: 6-14-18

FULTON CENTRE
11274 & 11268 SCAGGSVILLE ROAD
PARCELS 176 AND 177
HOWARD COUNTY, MARYLAND
CONTRACT NO. 20-5003-D
SHEET NO. 5 OF 5