

GENERAL NOTES

- 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.
- THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT (410) 313-1880.
- 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:
 - VERIZON TELEPHONE COMPANY 1-800-257-7777
 - HOWARD COUNTY BUREAU OF UTILITIES 1-410-954-6281
 - AT&T CABLE LOCATION DIVISION 410-313-3366
 - B.G.&C. CO. CONTRACTOR SERVICES 1-800-393-3553
 - B.G.&C. CO. UNDERGROUND DAMAGE CONTROL 410-890-4620
 - STATE HIGHWAY ADMINISTRATION 410-387-4620
 - STATE HIGHWAY ADMINISTRATION 410-531-5533
- ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- THIS SDP PLAN IS SUBJECT TO THE FOLLOWING DPZ FILES: ECP-15-034, & F-16-011.
- A PRE-SUBMISSION MEETING WAS HELD ON DECEMBER 10, 2014 AT 7:00 PM AT THE EAST COLUMBIA BRANCH LIBRARY MEETING ROOM.
- AN ENVIRONMENTAL CONCEPT PLAN (ECP-15-034) WAS APPROVED ON MARCH 12, 2015.
- THE SUBJECT PROPERTY IS ZONED R-12 IN ACCORDANCE WITH THE 10/19/2013 COMPREHENSIVE ZONING PLAN AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/2/03 PER COUNCIL BILL 75-2003.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC. DATED AUGUST 15, 2014. EXISTING GRADES INSIDE THE F16-011 LIMITS OF DISTURBANCE ARE PROPOSED F16-011 GRADES - OFFSITE TOPOGRAPHY FROM HOWARD COUNTY GIS.
- THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC. DATED JULY 6, 2015.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 421A AND 0080 WERE USED FOR THIS PROJECT.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PERMITTING OF BUILDING AND GRADING PERMITS, STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF MICRO-SCALE AND NON STRUCTURAL PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. MICRO-SCALE PRACTICES INCLUDE RAIN GARDENS AND RAIN BARRELS (M-1) AS WELL AS NON STRUCTURAL PRACTICES; DISCONNECTION OF ROOFTOP RUNOFF (N-1) AND SHEET FLOW TO CONSERVATION AREA (R-3). THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
- CERTIFIED TEST PITS HAVE BEEN PROVIDED TO VERIFY THE LOCATIONS OF GROUNDWATER AND/OR ROCK. OPEN TEST PITS WERE OBSERVED BY ROBERT H. VOGEL ENGINEERING ON APRIL 23, 2015.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES FOR THE CONTRACTORS 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 TO THE COUNTY'S RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- SHC ELEVATIONS ARE LOCATED AT THE PROPERTY LINE/EDGE OF EASEMENT.
- THERE ARE NO EXISTING DWELLING STRUCTURES LOCATED ON THIS SITE.
- IN ACCORDANCE WITH SECTION 128.0 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT FRONT OR REAR YARD SETBACK. REFER TO SHEET 3.
- THE PROPOSED UNITS SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - a) WIDTH - 12 FEET (16 FEET FOR MORE THAN ONE RESIDENCE)
 - b) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. (1-1 1/2" MIN.)
 - c) GEOMETRY - MAXIMUM 1.5% GRADE, MAXIMUM 10% CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.
 - d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
 - e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOODS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
 - f) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
 - g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- LOTS 1-4 WILL UTILIZE A USE-IN-COMMON DRIVEWAY.
- A USE-IN-COMMON MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAY WAS PREVIOUSLY RECORDED AS L17354 F.484
- A PRIVATE ROAD STREET NAME SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5751 FOR DETAILS AND COST ESTIMATES.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREA.
- FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE FOR LOTS 1-4 ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- TRASH AND RECYCLING COLLECTION WILL BE AT GUILFORD ROAD WITHIN 5' OF THE EDGE OF THE COUNTY ROADWAY. THE MAINTENANCE AND THE LANDSCAPING IS THE RESPONSIBILITY OF THE HOA.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- WATER AND SEWER FOR THIS PROJECT WILL BE VIA CONTRACT 24-4946-D
- WATER AND SEWER SERVICE WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.122.8 OF THE HOWARD COUNTY CODE. ALLOCATIONS WILL BE GRANTED AT TIME OF ISSUANCE OF BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- ALL WATER HOUSE CONNECTIONS SHALL BE OUTSIDE METER SETTING UNLESS OTHERWISE NOTED ON THE PLANS OR IN SPECIFICATIONS.
- TO THE BEST OF THE OWNERS KNOWLEDGE OR THE HOWARD COUNTY CEMETERY INVENTORY MAP, THERE ARE NO BURIAL GROUNDS, CEMETERIES LOCATED ON THE SUBJECT PROPERTY.
- THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
- TO THE BEST OF THE OWNERS KNOWLEDGE OR THE HOWARD COUNTY HISTORIC SITES MAP, THERE ARE NO HISTORIC STRUCTURES LOCATED ON THE SUBJECT PROPERTY.
- GUILFORD ROAD COLLECTOR AS A MAJOR COLLECTOR, SITE ACCESS SHALL BE VIA A USE-IN-COMMON DRIVEWAY
- LANDSCAPE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$5,140 FOR THE REQUIRED 6 SHADE TREES (\$1,800), 2 ORNAMENTAL TREES (\$300), 7 DECIDUOUS TREES (\$1,050), 27 SHRUBS (22 PERIMETER, 5 TRASH PAD) \$810, AND 118 LINEAR FEET OF FENCING (\$1,180) WAS POSTED UNDER THE F-16-011 DEVELOPERS AGREEMENT.
- FOREST STAND DELINEATION PLAN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN CANOLES, ON NOVEMBER 13, 2014 AND FEBRUARY 17, 2015.
- FIVE (5) SPECIMEN TREES ARE PRESENT ON THE PROJECT SITE. THIS PLAN PROPOSAL IS TO SAVE ALL SPECIMEN TREES.
- THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- FOREST CONSERVATION OBLIGATIONS FOR THIS PLAN WAS MET UNDER F-16-011:
 - 1. ONSITE RETENTION = 0.82 ACRES - NO SURETY REQUIRED.
 - CREATED = 0.14 ACRES
 - NON-CREDITED = 0.68 ACRES
 - FINANCIAL SURETY FOR THE REQUIRED REFORESTATION = \$ 7,810.
 - (0.36 AC OR 15,619 SF @ \$0.50/SF) WAS POSTED WITH THE F-16-011 DEVELOPERS AGREEMENT.
 - 3. FEE-IN-LIEU PAYMENT OF \$ 1,961 (0.06 AC OR 2,614 @ 0.75/SF) SHALL BE POSTED WITH THE FINAL PLAT ORIGINALS.
- IN ACCORDANCE WITH SECTION 16.127 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THE DESIGN OF THIS DEVELOPMENT IS COMPATIBLE WITH THE ADJOINING SINGLE FAMILY HOMES, PROVIDES ENHANCED LANDSCAPING FOR SCREENING AND PRIVACY AND PROVIDES PROTECTION OF ENVIRONMENTAL LANDS AND SPECIMEN TREES.
- DEPARTMENT OF PLANNING AND ZONING CONSIDERS THE PROPOSED DISTURBANCE TO THE STREAM BUFFER AND FLOODPLAIN TO BE NECESSARY DISTURBANCE PER SECTION 16.116(C) IN ORDER TO REMOVE THE EXISTING DRIVEWAY.
- DRIVEWAYS SHALL UTILIZE HOWARD COUNTY STANDARD DETAIL NO. R-6-06.
- A NOISE STUDY IS NOT REQUIRED FOR THIS SITE.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THIS PROJECT IS EXEMPT FROM AN ADEQUATE ROADS FACILITIES TEST STUDY, AS IT IS A MINOR SUBDIVISION.
- PER ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN CANOLES, NO RARE, THREATENED OR ENDANGERED SPECIES OR THEIR HABITATS WERE OBSERVED DURING THE FIELD REVIEW OF THE PROPERTY.
- NO WETLANDS ARE PRESENT ONSITE PER ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN CANOLES, NOV. 13, 2014.
- A "FLOODPLAIN" IS LOCATED ONSITE.
- REFER TO THE GATEWAY VILLAGE DAM - DANGER REACH STUDY PREPARED BY KCI TECHNOLOGIES, INC. FOR MARYLAND DEPARTMENT OF THE ENVIRONMENT - MOE / DAM SAFETY DIVISION DATED JULY 2012.
- THIS REPORT DETAILS AN ANALYSIS WHICH CONCLUDED THE "PMF" (PROBABLE MAXIMUM FLOOD) ELEVATION AS PRODUCED BY A BREACH OF THE UPSTREAM POND FACILITY PRODUCED A HIGHER FLOOD ELEVATION THAN THE 100 YEAR STORM EVENT.
- THE PLAN UTILIZES THE "PMF" ELEVATIONS, AT THE STUDIES CROSS SECTIONS, TO PLOT A "100 YEAR FLOODPLAIN" BASED UPON FIELD TOPOGRAPHY.
- THIS DELINEATION IS DESCRIBED AS "PUBLIC 100 YEAR FLOODPLAIN DRAINAGE AND UTILITY EASEMENT" FOR THE PROJECT.
- THERE ARE NO STEEP SLOPES IN EXCESS OF 20.00% SF LOCATED ONSITE.
- SOIL TYPES SHOWN HEREON ARE IN ACCORDANCE WITH THE SOIL SURVEY - HOWARD COUNTY, MARYLAND.
- THE HOMEOWNERS ASSOCIATION DOCUMENTS HAVE BEEN RECORDED WITH THE MARYLAND STATE DEPARTMENT OF ASSESSMENTS AND TAXATION AS RECORDING NUMBER D17073887 ON FEB 25, 2016.
- COTTAGE GROVE HOMEOWNERS ASSOCIATION INC. HOMEOWNERS ASSOCIATION COVENANTS AND RESTRICTIONS WERE RECORDED SIMULTANEOUSLY WITH F-16-011 AS USER 17354 FOLIO 489, ON DEC. 29, 2016.
- IN ACCORDANCE WITH SECTION 109.0 OF THE 10/19/2013 COMPREHENSIVE ZONING REGULATIONS, THIS SUBDIVISION IS SUBJECT TO MODERATE INCOME HOUSING UNITS. THE MIHU OBLIGATION FOR THIS PROJECT WILL BE MET BY A FEE IN LIEU PAYMENT TO THE HOWARD COUNTY HOUSING DEPARTMENT FOR EACH UNIT OR PORTION OF THE UNIT.
- THIS PROJECT IS SUBJECT TO A DESIGN WAIVER THAT HAS BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY SIMULTANEOUSLY WITH THE RECORDING OF THE FINAL PLAT.
- THIS PROJECT IS SUBJECT TO A DESIGN WAIVER ON OCTOBER 4, 2016, THE DEPUTY DIRECTOR OF THE DEPARTMENT OF PUBLIC WORKS APPROVED THE REQUEST TO WAIVE SECTION 5.4 CROSSINGS AND CLEARANCES, PARAGRAPH B.5 OF THE HOWARD COUNTY WATER AND SEWER DESIGN MANUAL, VOLUME II, WHICH REQUIRES A MINIMUM 10 FOOT HORIZONTAL CLEARANCE BETWEEN ANY PERMANENT STRUCTURE AND THE EDGE OF A PUBLIC UTILITY EASEMENT. THE APPROVAL IS BASED UPON THE REVISED DESIGN OF OCTOBER 3, 2016 WHICH SHOWS:
 - 1. THE WATER AND SEWER MAINS ARE CENTERED ON THE 30' EASEMENT.
 - 2. THE HORIZONTAL CLEARANCE BETWEEN THE 8" SEWER MAIN TO THE 4" WATER MAIN IS THE REQUIRED 10'.
 - 3. THE SEPARATION BETWEEN THE HOUSE ON LOT 1 AND 4" WATER MAIN IS 15.3'.

COORDINATE TABLE

NO.	NORTH	EAST
201	541269.1100	1363688.8256
202	541107.8816	1363771.7120
203	541053.9460	1363527.5950
204	540955.9788	1363308.2469
205	541335.2211	1363574.0993
206	541329.8714	1363452.2722
207	541254.8667	1363662.4640
208	541101.0472	1363740.8580
209	541183.8882	1363537.0992
210	541009.4729	1363550.4554

**SITE DEVELOPMENT PLAN
COTTAGE GROVE
LOTS 1 - 4
HOWARD COUNTY, MARYLAND**

SWM PRACTICE CHART

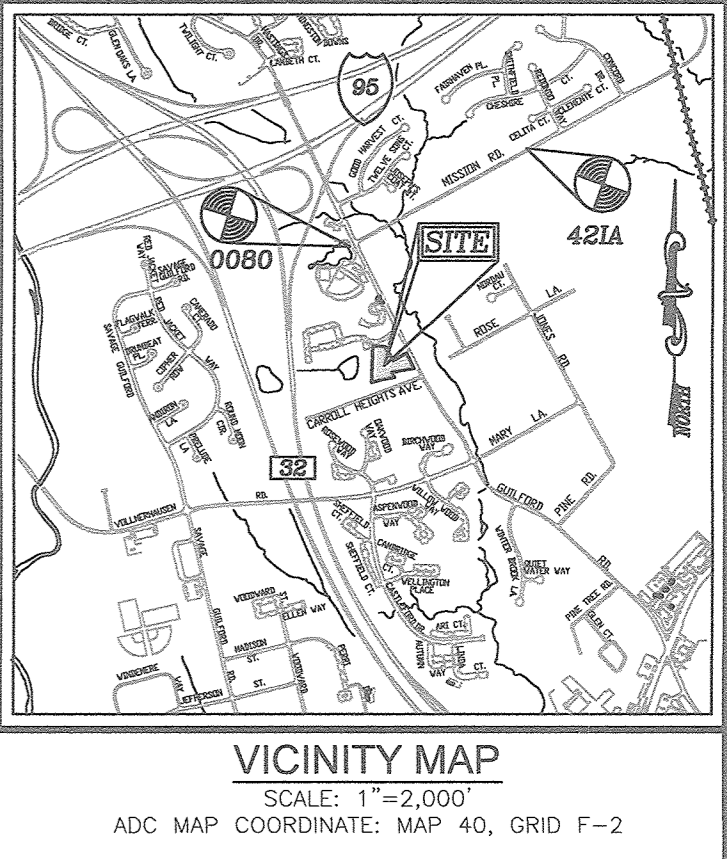
LOT #	ADDRESS	ESD PRACTICE
#1	9910 NOEL HOPE DRIVE	(1) RAIN BARREL (M-1) (2) RAIN GARDEN (M-2)
#2	9911 NOEL HOPE DRIVE	(1) RAIN BARREL (M-1) (2) RAIN GARDEN (M-2)
#3	9915 NOEL HOPE DRIVE	DISCONNECT ROOFTOP RUNOFF (N-1), (2) RAIN BARREL (M-1) (2) RAIN GARDEN (M-2)
#4	9919 NOEL HOPE DRIVE	DISCONNECT ROOFTOP RUNOFF (N-1), (2) RAIN BARREL (M-1) (2) RAIN GARDEN (M-2)

BENCHMARKS

COORDINATES BASED ON NAD 83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 0080 AND 421A.

HOWARD COUNTY BENCHMARK

0080	N 542366.914	E 1363075.974	ELEV. 282.392
421A	N 543390.414	E 1364912.662	ELEV. 312.012



SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET AND LAYOUT PLAN	1 OF 5
GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN AND SOILS MAP	2 OF 5
GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN AND DETAILS	3 OF 5
LANDSCAPE PLAN	4 OF 5
STORM WATER MANAGEMENT DRAINAGE AREA MAP, NOTES AND DETAILS	5 OF 5

LEGEND

[Symbol]	EXISTING CURB AND GUTTER PROPERTY LINE	[Symbol]	EX. 10' PRIVATE DRAINAGE AND UTILITY EASEMENT
[Symbol]	RIGHT-OF-WAY LINE	[Symbol]	EX. 24' PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 1-4
[Symbol]	PUBLIC 100 YEAR FLOODPLAIN DRAINAGE AND UTILITY EASEMENT	[Symbol]	EX. VARIABLE WIDTH PUBLIC WATER, SEWER AND UTILITY EASEMENT FOR LOTS 1-4
[Symbol]	EX. FOREST CONSERVATION EASEMENT (RETENTION)	[Symbol]	BGE GREEN ZONE
[Symbol]	EX. FOREST CONSERVATION EASEMENT (NON-CREDITED RETENTION)	[Symbol]	BGE YELLOW ZONE
[Symbol]	EX. FOREST CONSERVATION EASEMENT (REFORESTATION)	[Symbol]	5' SOIL FENCE

SITE ANALYSIS DATA

A. TOTAL PROJECT AREA:	2.33 AC
B. AREA OF PLAN SUBMISSION:	0.85 AC - 4 BUILDABLE LOTS
C. LIMIT OF DISTURBANCE:	0.85 AC
D. PRESENT ZONING DESIGNATION:	R-12
E. PROPOSED USES FOR SITE AND STRUCTURES:	SINGLE FAMILY DETACHED
F. FLOOR SPACE ON EACH LEVEL OF BUILDING PER USE:	N/A
G. TOTAL NUMBER OF UNITS ALLOWED FOR PROJECT AS SHOWN ON FINAL PLAT:	4 BUILDABLE LOTS F16-011
H. TOTAL NUMBER OF UNITS PROPOSED ON THIS SUBMISSION:	4 BUILDABLE LOTS
I. MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE:	N/A
J. NUMBER OF PARKING SPACES REQUIRED BY HO. CO. ZONING REGULATIONS:	2.5 PER SFD HOUSE
K. NUMBER OF PARKING SPACES PROVIDED ON SITE:	REFER TO PARKING TABULATION
L. OPEN SPACE ON SITE:	REFER TO F-16-011 = 1.27 AC
M. AREA OF RECREATION OPEN SPACE REQUIRED BY SUBDIVISION & LAND DEVELOPMENT REGULATIONS:	N/A
N. BUILDING COVERAGE OF SITE:	N/A
O. ANY OTHER INFORMATION WHICH MAY BE RELEVANT:	TAX MAP 42, BLOCK 24, PARCEL 101 6TH ELECTION DISTRICT
P. FLOOR AREA RATIO:	N/A
Q. DPZ FILE REFERENCES:	ECP-15-034 (APPROVED 09/18/2014), CONT.#24-4946-D, F-16-011, PLATS 24016-24018
R. NUMBER OF REQUIRED MIHU	4 BUILDABLE LOTS x 10% = 0.4 OR 1 REQUIRED MIHU
S. NUMBER OF PROVIDED MIHU	0 PROVIDED, F-16-011 PAYMENT OF FEE-IN-LIEU

MIHU AGREEMENT

PLEASE NOTE THAT ALL NEW LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION (LOTS 1-4) ARE SUBJECT TO THE MIHU FEE-IN-LIEU REQUIREMENT THAT IS TO BE CALCULATED AND PAID TO THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF BUILDING PERMIT ISSUANCE BY THE PERMIT APPLICANT.

OWNER	DEVELOPER
HAMPTON HILLS, LLC 3675 PARK AVE., SUITE 301 ELLCOTT CITY, MD 21043 (410) 480-0023	TRINITY HOMES MARY LAND, LLC 3675 PARK AVE., SUITE 301 ELLCOTT CITY, MD 21043 (410) 480-0023



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Elmer
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 3-17-17

Veronica Ouellet
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 3-20-17

Valarie Griffin
DIRECTOR
DATE: 3-20-17

TRAFFIC CONTROL SIGN LOCATION CHART

ROAD NAME	STATION	OFFSET	TYPE
UC DRIVEWAY	0+27.5	12.00' L	R1-1 STOP SIGN

PARKING TABULATION:

TOTAL NUMBER OF DWELLING UNITS PROPOSED : 4

1. PARKING SPACES REQUIRED: 2 SPACES PER UNIT = 8 SPACES
ADDITIONAL PARKING SPACES REQUIRED (VISITOR): 0.5 SPACES PER UNIT x 4 UNITS = 2 SPACES
TOTAL REQUIRED = 10 SPACES
2. PARKING SPACES PROVIDED: SFD = 2 GARAGE / 2 DRIVEWAY
2 SPACE IN GARAGE = 8 SPACES (FOR 4 UNITS)
2 SPACES ON DRIVEWAY = 8 SPACES (FOR 4 UNITS)
TOTAL PARKING SPACES PROVIDED: 16 SPACES

COVER SHEET & LAYOUT PLAN
SCALE: 1"= 30'

MINIMUM LOT SIZE CHART

LOT	GROSS AREA	PIPESTEM AREA	NET AREA	MIN. LOT SIZE
1	8,137 SF	895 SF	7,242 SF	7,200 SF
2	10,855 SF	2,132 SF	8,723 SF	7,200 SF
3	9,059 SF	1,851 SF	7,208 SF	7,200 SF
4	8,760 SF	1,554 SF	7,206 SF	7,200 SF

ADDRESS CHART

LOT NO	STREET ADDRESS
1	9910 NOEL HOPE DRIVE
2	9911 NOEL HOPE DRIVE
3	9915 NOEL HOPE DRIVE
4	9919 NOEL HOPE DRIVE

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NUMBER
COTTAGE GROVE	N/A	101
PLAT OR L/F	GRID NO.	ZONING
24016 - 24018	24	R-12
TAX MAP NO.	ELECT. DIST.	CENSUS TR.
42	6TH	606901

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET
ELLCOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
NO. 16193

DESIGN BY: EDS
DRAWN BY: KG
CHECKED BY: RHY
DATE: FEBRUARY 2017
SCALE: AS SHOWN
W.O. NO.: 14-11

PROFESSIONAL CERTIFICATE
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. 16193, EXPIRATION DATE: 08-27-2018

1 SHEET OF 5

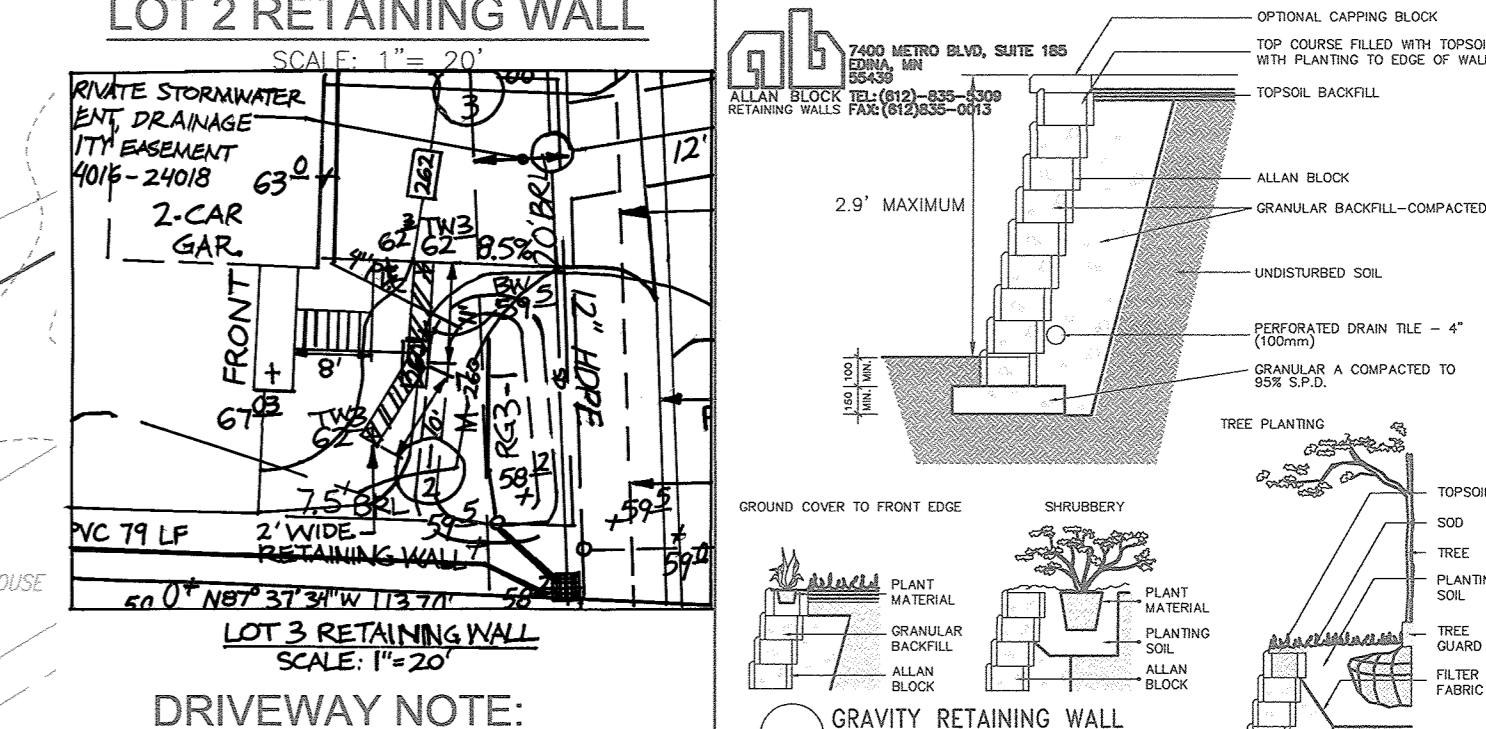
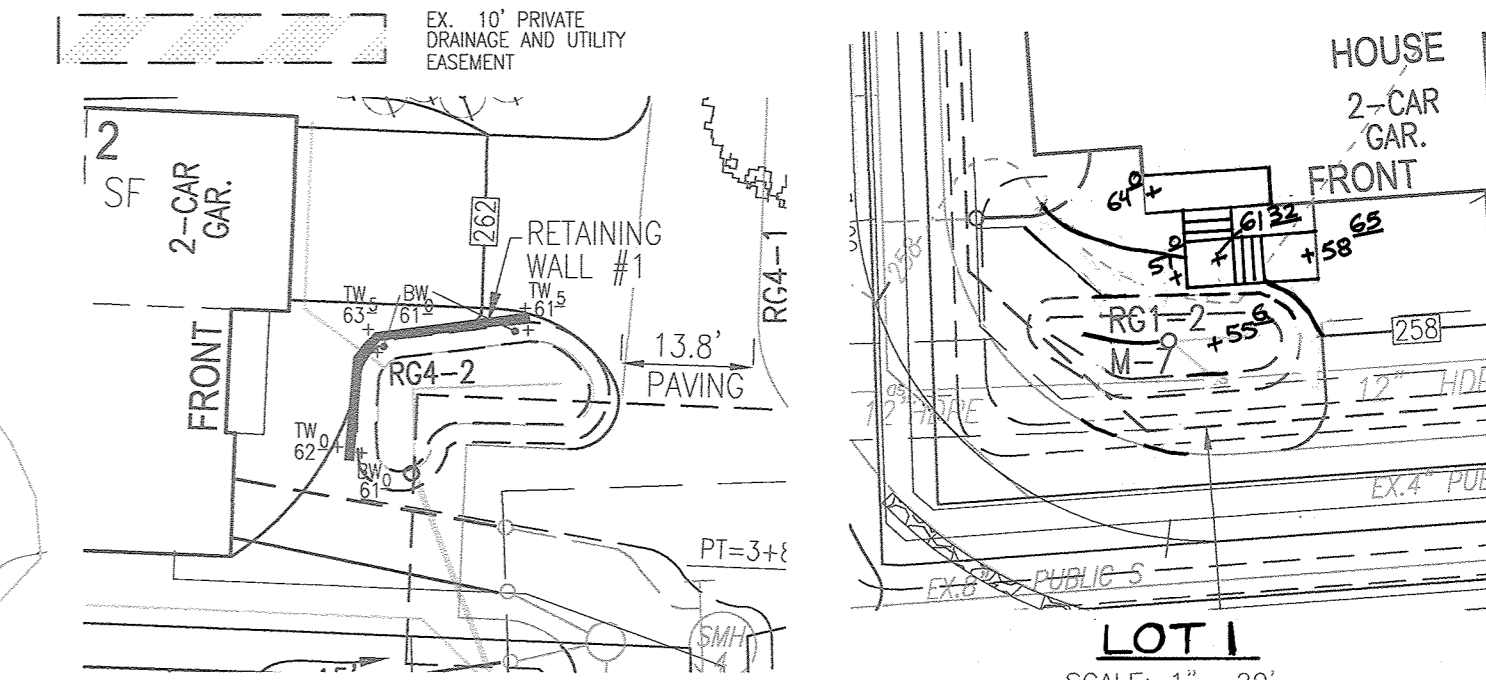
NOTE:
EITHER PERMANENT OR TEMPORARY STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR REGARDLESS OF DAYS/DATES IN THE STANDARD SEDIMENT CONTROL NOTES AND/OR SEEDING SPECIFICATIONS.

NOTE:
- SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 35 FEET APART
- DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

NOTE: STOCKPILING WILL BE PERMITTED ON EACH LOT ONLY.

LEGEND:

	EXISTING CONTOUR		EXISTING TREES (FIELD LOCATED)
	PROPOSED CONTOUR		EXISTING TREE LINE (FIELD LOCATED)
	EXISTING SPOT ELEVATION		EXISTING OVERHEAD LINE
	EXISTING CURB AND GUTTER		PROPERTY LINE
	EXISTING UTILITY POLE		RIGHT-OF-WAY LINE
	EXISTING LIGHT POLE		SOILS BOUNDARY
	EXISTING MAILBOX		EXISTING PMF FLOODPLAIN
	EXISTING SIGN		PER GATEWAY VILLAGE DAM
	EXISTING SANITARY MANHOLE		ANGER REACH STUDY
	EXISTING SANITARY LINE		SILT FENCE
	EXISTING CLEANOUT		SUPER SILT FENCE
	EXISTING FIRE HYDRANT		LIMIT OF DISTURBANCE
	EXISTING WATER LINE		STABILIZED CONSTRUCTION ENTRANCE
	EXISTING STORM DRAIN		STANDARD INLET PROTECTION
	EX. STORM DRAIN INLET		5' SOLID FENCE
	STEEP SLOPES (>25%)		
	MODERATE SLOPES (15-24.99%)		
	EX. VARIABLE WIDTH PUBLIC WATER, SEWER AND UTILITY EASEMENT FOR LOTS 1-4		
	EX. 10' PRIVATE DRAINAGE AND UTILITY EASEMENT		
	EX. 10' PRIVATE DRAINAGE AND UTILITY EASEMENT		



DRIVEWAY NOTE:
INDIVIDUAL HOUSE SITES SHALL PROVIDE PRIVATE DRIVEWAYS A MINIMUM 18 FOOT DEPTH FROM THE FACE OF GARAGE TO THE EDGE OF THE USE-IN-COMMON DRIVEWAY.

OWNER:
HAMPTON HILLS, LLC
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023

DEVELOPER:
TRINITY HOMES MARY LAND, LLC
3675 PARK AVE., SUITE 301
ELLCOTT CITY, MD 21043
(410) 480-0023



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cheryl J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 3-17-17

Michael P. ...
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 3-20-17

Michael P. ...
DIRECTOR
DATE: 3-20-17

OWNER/DEVELOPER CERTIFICATION:
I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT, AND/OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

Michael P. ...
OWNER/DEVELOPER SIGNATURE
DATE: 2/16/17

Michael P. ...
PRINTED NAME & TITLE

DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John H. ...
DESIGNER'S SIGNATURE
DATE: 2/8/17

ROBERT H. VOGEL
PRINTED NAME
MD REGISTRATION NO. 16193
(C.E., R.L.S., OR R.L.A. (circle one))

GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN AND SOILS MAP

SCALE: 1" = 30'

John H. ...
DATE: 3/3/17

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

MAPPED SOILS TYPES - SAVAGE SW MAP #24

SYMBOL	NAME / DESCRIPTION	GROUP	HYDRO	PERCENT SAND	PERCENT SILT	PERCENT CLAY	PERCENT ORGANIC	PERCENT ROCK	PERCENT COBBLES	PERCENT STONES	PERCENT Boulders	PERCENT C&G	PERCENT SLOPE	PERCENT POTENTIAL
FG	FALGONSON SAND (LOW) 0 TO 2 PERCENT SLOPES	B/D	YES	0.02	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
UG	URBAN LAND-CALUM-BELTSVILLE COMPLEX 0 TO 5 PERCENT SLOPES	C	NO	NO	0.37	NO	NO	NO	NO	NO	NO	NO	NO	NO

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY

NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL EROSION FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

NO.	REVISION	DATE
1	TO REVISE LANDSCAPE WALLS AND STEPS TO STEEP	8-8-17

SITE DEVELOPMENT PLAN
GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN AND SOILS MAP
COTTAGE GROVE
LOTS 1-4

TAX MAP 42 BLOCK 24
6TH ELECTION DISTRICT

ZONED: R-12
PARCEL 101
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLCOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

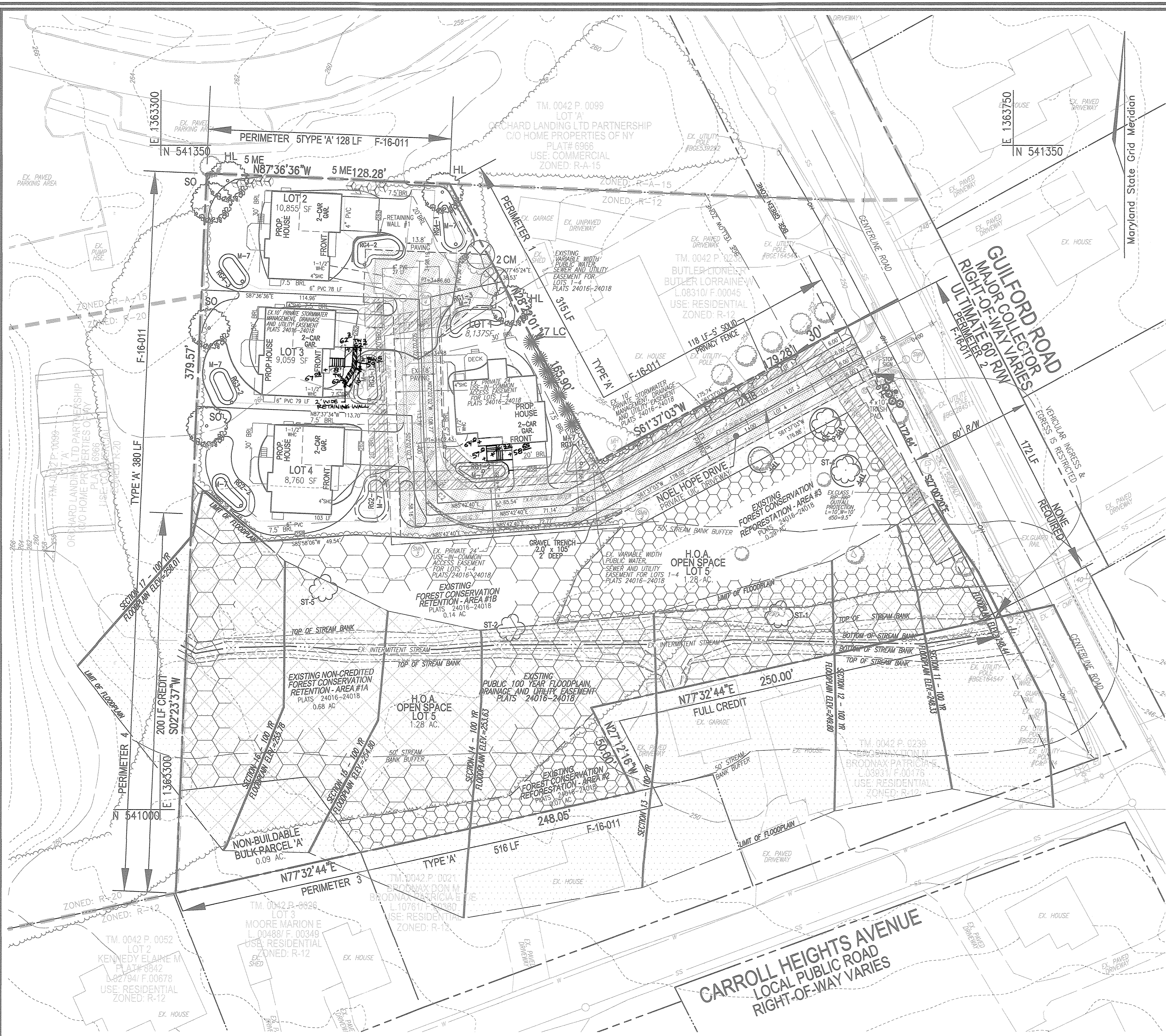
PROFESSIONAL CERTIFICATE

DESIGN BY: EDS
DRAWN BY: KG
CHECKED BY: RHV
DATE: FEBRUARY 2017
SCALE: AS SHOWN
W.O. NO.: 14-11

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. 16193 EXPIRATION DATE 08-22-2018

Robert H. Vogel
ROBERT H. VOGEL, PE No. 16193

2 SHEET OF 5

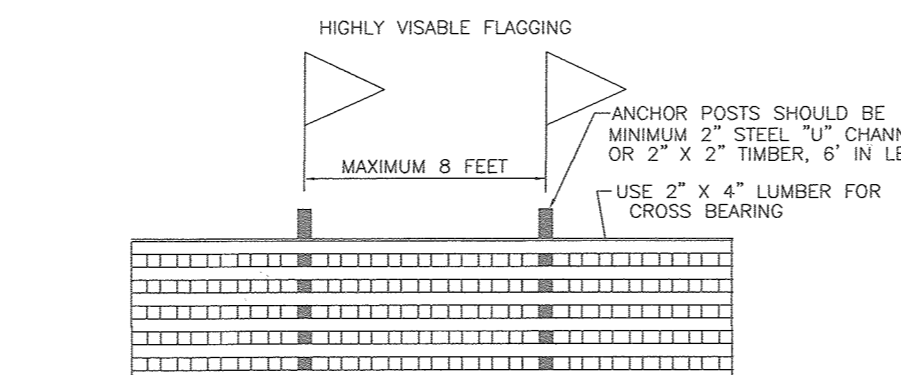
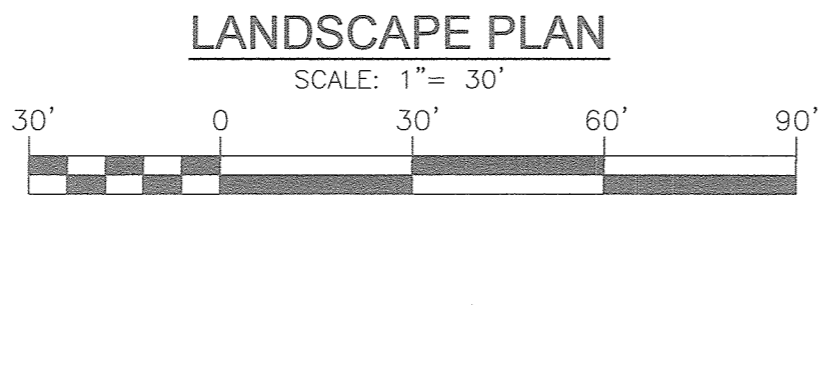


B&G&E NOTES:

1. B&G&E RESERVES THE RIGHT TO TRIM, TOP OR CUT DOWN ANY TREE IN PROXIMITY TO THE LINE THAT IN THE OPINION OF B&G&E SHALL BE DEEMED A HAZARD TO THE SAFE AND RELIABLE DELIVERY OF ELECTRICITY.
2. THE DEPARTMENT OF PLANNING AND ZONING MAY AUTHORIZE THE TRIMMING OR REMOVAL OF TREES OR VEGETATION IMMEDIATELY ADJACENT TO THE B&G&E RIGHT-OF-WAY OR EASEMENT, IF B&G&E DETERMINES THE TREES ARE COMPROMISING THE SAFETY OF A TRANSMISSION LINE LOCATED WITHIN THEIR UTILITY 12' OR EASEMENT, IF B&G&E DETERMINES THE TRIMMING OR REMOVAL OF TREES WITHIN A FOREST CONSERVATION EASEMENT, A LETTER SPECIFYING THE LOCATION AND SCOPE OF WORK NEEDS TO BE SENT TO DPZ AT LEAST 30 DAYS IN ADVANCE OF UNDERTAKING THE WORK. DPZ UNDERSTANDS CONSENTATION ENERGY'S NEED TO PROTECT ITS TRANSMISSION LINES AND WILL NOT OBLIGATE WITHOUT PERMISSION.
3. CALL MISS UTILITY TO MARK UP THE LOCATION OF EXISTING GAS LINE BEFORE PLANTING STREET TREES ALONG GULFORD ROAD & PLANT STREET TREES 10' AWAY FROM EXISTING GASLINE AS REQUIRED.

DPZ'S POLICIES GOVERNING THE PLACEMENT OF LANDSCAPING AND STREET TREES IN PROXIMITY TO B&G&E'S POWER LINES OR TRANSMISSION RIGHT-OF-WAY ARE BASED ON B&G&E'S PUBLISHED "PLANTING ZONE CONCEPT" WHICH STIPULATES THE MAXIMUM ALLOWABLE SIZE OF PLANT MATERIALS FOR THREE DEFINED ZONES. AS THE DISTANCE FROM B&G&E EQUIPMENT INCREASES, SO DOES THE SIZE OF THE ALLOWABLE PLANT MATERIALS. THESE THREE ZONES ARE DEFINED AS FOLLOWS:

ZONE	DISTANCE FROM THE B&G&E POWER LINE OR TRANSMISSION RIGHT-OF-WAY	MAXIMUM HEIGHT OF VEGETATION
GREEN	UP TO 20 FEET	25 FEET
YELLOW	BETWEEN 20 FEET AND 45 FEET	40 FEET
RED	BEYOND 45 FEET	ABOVE 40 FEET



SPECIMEN TREE CHART

Key	Species	Size (in dbh)	CRZ (feet radius)	Comments
1	Sweet Gum	37	55.5	Good condition, in floodplain
2	Red oak	36.5	54.75	fair, storm damage in crown
3	Pin oak	30	45	good
4	Pin oak	31	46.5	good
5	Oak sp.	36	54	good condition, in floodplain

LANDSCAPE NOTES

1. AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.
2. THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERRIS, 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.
3. SHOULD ANY TREE DESIGNATED FOR PRESERVATION FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE HOWARD COUNTY LANDSCAPE MANUAL.
4. PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THE FINAL PLAN.

GENERAL NOTE:

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

A FINANCIAL SURETY IN THE AMOUNT OF \$5,140 FOR THE REQUIRED 6 SHADE TREES (\$1,800), 2 ORNAMENTAL TREES (\$300), 7 EVERGREEN TREES (\$1,050), 27 SHRUBS (22 PERIMETER, 5 TRASH PAD) \$810, AND 118 LINEAR FEET OF FENCING (\$1,180) WAS POSTED WITH THE F-16-011 DEVELOPER AGREEMENT.

SCHEDULE 'A' PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER AND ROADWAYS				TOTAL
	P-1	P-2	P-3	P-4	
PERIMETER/FRONTAGE DESIGNATION	F-2	F-2	F-3	F-4	
LANDSCAPE TYPE	A	A	A	A	
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	315	172	516	380	128
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	No	No	Yes FULL	Yes 200 LF	No
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	YES-FENCE 118 LF (1)	No	No	No	No
NUMBER OF PLANTS REQUIRED	197 LF	1,600 3	1,600 3	180 LF	8 7
SHADE TREES	N/A	1:60 0	1:60 3	1:60 2	7
EVERGREEN TREES	1:10 12	-	-	-	12
SHRUBS	-	-	-	-	-
CREDIT FOR EX. INDIVIDUAL TREES	-	-	-	-	-
SHADE TREES TO REMAIN	-	N/A	-	-	-
EVERGREEN TREES TO REMAIN	-	-	-	-	-
SHRUBS TO REMAIN	-	-	-	-	-
NUMBER OF PLANTS PROVIDED	2	N/A	3	1	6 7
SHADE TREES	2	-	-	-	2
EVERGREEN TREES	1	-	-	-	1
SHRUBS	12(1)	-	-	10	22

* CREDIT EXISTING TREES TO REMAIN:
 ** 7 EVERGREENS + SCREENING PER SECTION 16.127 - RESIDENTIAL INFILL DEVELOPMENT.
 (1) 118 LF - 5' TALL SOLID PRIVACY FENCE. 12 SHRUBS ARE REQUIRED ALONG THIS PERIMETER IN ADDITION TO THE PROPOSED SOLID FENCE.

PERIMETER LANDSCAPE SCHEDULE - REQUIRED PLANTING

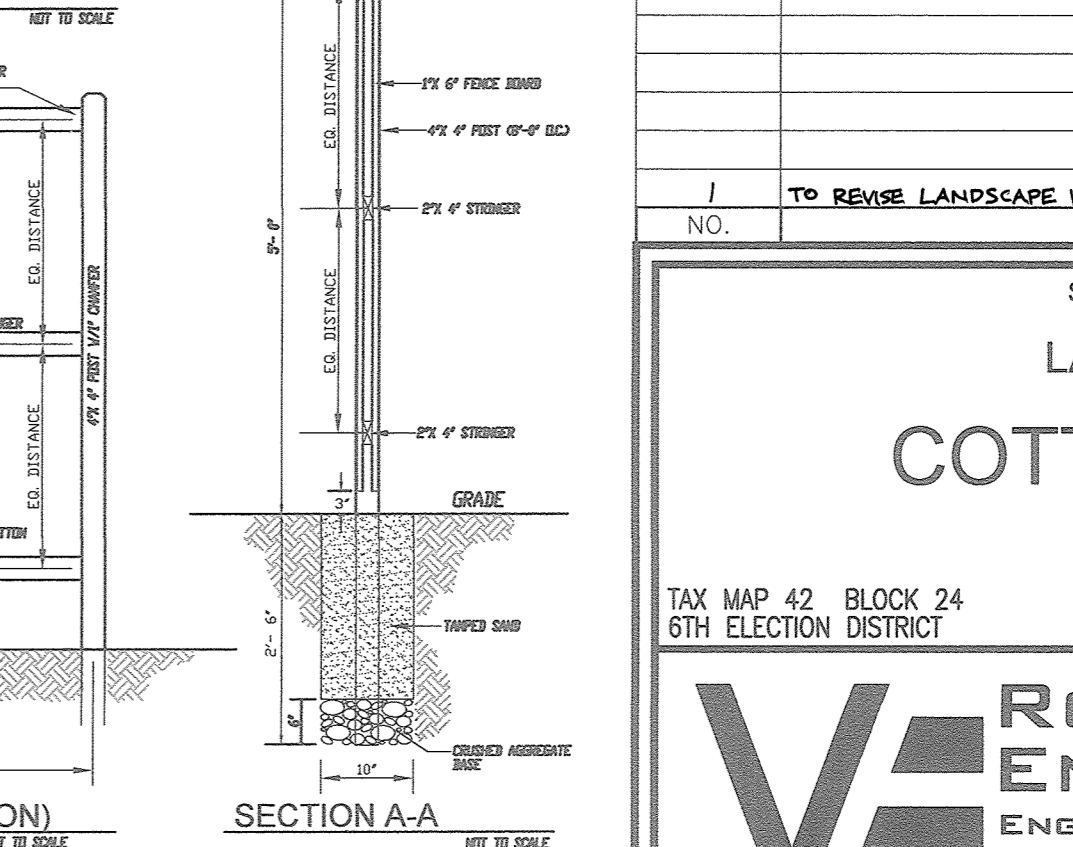
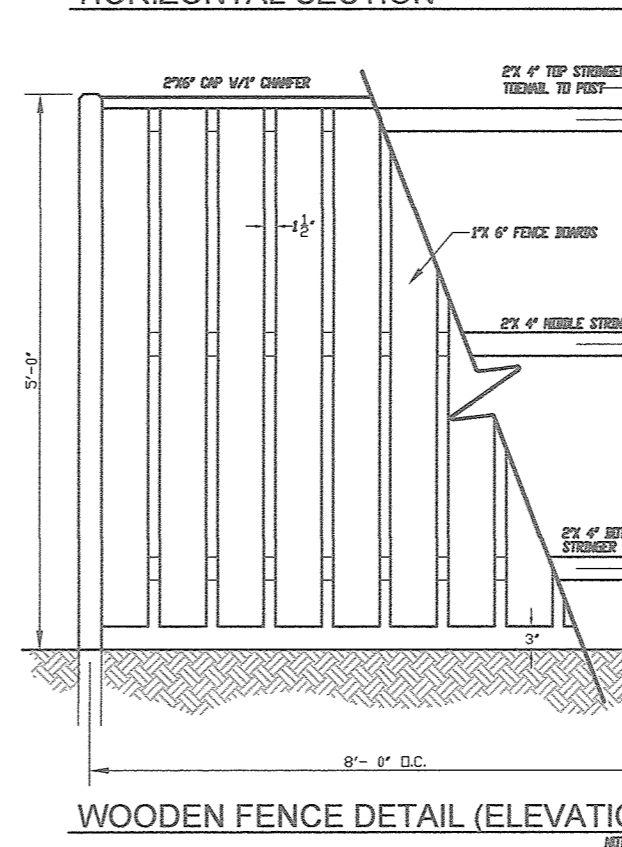
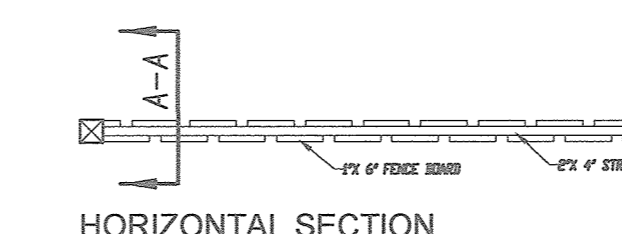
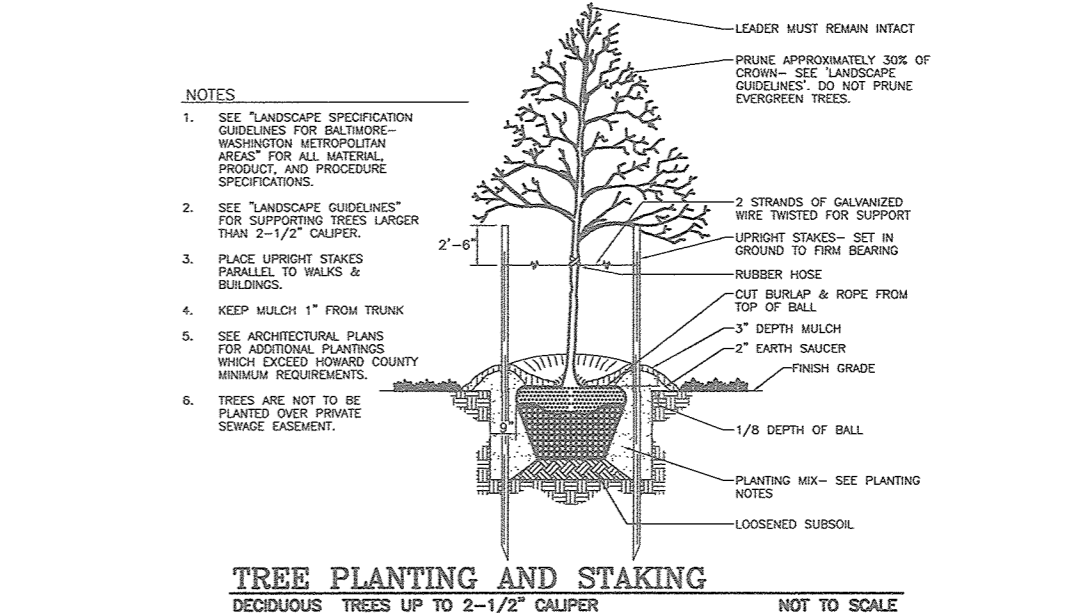
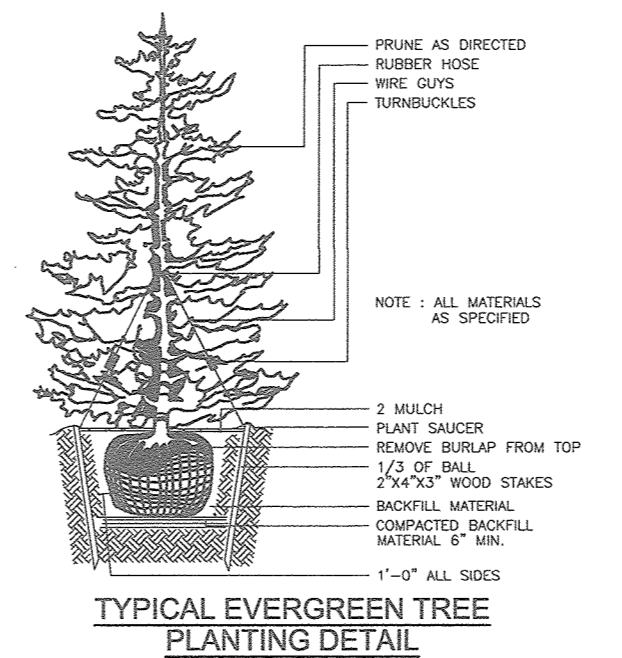
SYM	KEY	QUAN	BOTANICAL NAME	SIZE	CAT
HL	3		GLEDISIA TRIACANTHOS INERMIS 'IMPERIAL' / IMPERIAL THORNLESS HONEY LOCUST	2 1/2"-3" CAL.	B & B
SO	3		QUERCUS COCCINEA SCARLET OAK	2 1/2"-3" CAL.	B & B
EVERGREENS					
LC	7		CUPRESSOCYPARIS LEYLANDI LEYLANDI CYPRRESS	5-6' HT.	B & B
ORNAMENTAL					
CM	2		LAGERSTROMIA INDICA CRAPEMYRTLE (BGE COMPLIANT)	6-8' HT.	B & B
SHRUBS					
ME	10		EUONYMUS KNAUTHSCHOVICUS 'MANHATTAN' MANHATTAN EUONYMUS	2 1/2'-3' HT.	B & B
HB	12		MANADIMA DOMESTICA HEAVENLY BAMBOO	2 1/2'-3' HT.	B & B

TRASH PAD LANDSCAPING

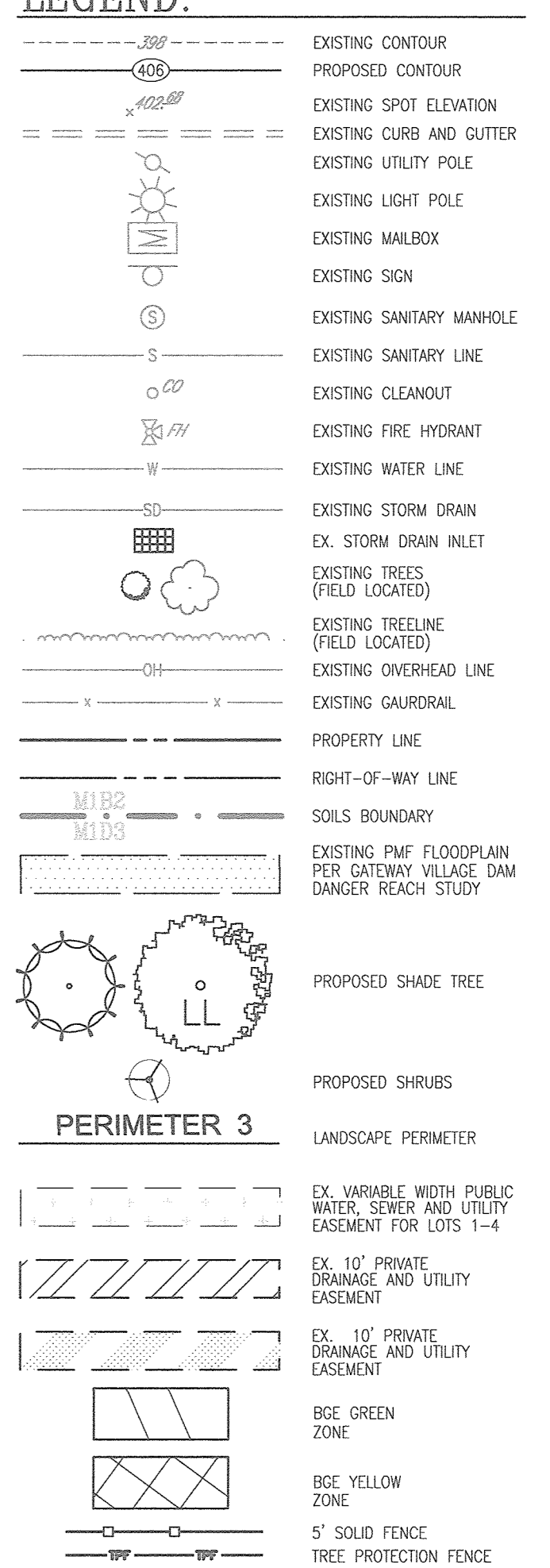
SYMBOL	QTY.	DESCRIPTION	SIZE	REMARKS
⊙	5	TAXUS CUSPIDATA 'NANA' DWARF JAPANESE YEW	18"-24" SPREAD	B & B

LANDSCAPE SCHEDULE NOTE:

1. ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AMN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HRO PLANTING SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
3. FINAL LOCATION OF PLANT MATERIAL MAY VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
4. CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.



LEGEND:



OWNER
HAMPTON HILLS, LLC
3675 PARK AVE., SUITE 301
ELICOTT CITY, MD 21043
(410) 480-0023

DEVELOPER
TRINITY HOMES MARYLAND, LLC
3675 PARK AVE., SUITE 301
ELICOTT CITY, MD 21043
(410) 480-0023

NO.	TO REVISE LANDSCAPE WALLS AND STEPS TO STOOP	REVISION	DATE
1	TO REVISE LANDSCAPE WALLS AND STEPS TO STOOP		8-8-19

SITE DEVELOPMENT PLAN
LANDSCAPE PLAN
COTTAGE GROVE
LOTS 1-4

TAX MAP 42 BLOCK 24
6TH ELECTION DISTRICT

ZONED: R-12
PARCELS 101
HOWARD COUNTY, MARYLAND

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ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELICOTT CITY, MD 21043
TEL: 410.481.7666
FAX: 410.481.5961

PROFESSIONAL CERTIFICATE

DESIGN BY: EDS
DRAWN BY: KG
CHECKED BY: RHV
DATE: FEBRUARY 2017
SCALE: AS SHOWN
W.O. NO.: 14-11

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. 16193 EXPIRATION DATE: 09-27-2018

4 SHEET OF 5

