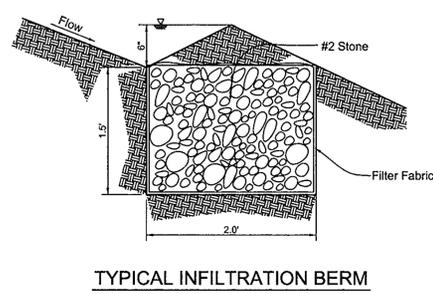


**GENERAL NOTES**

- PROPERTY ADDRESS: 9104 GORMAN ROAD
- TOTAL AREA OF PROPERTY = 21,786.86 SFS OR 0.5002 AC.
- SUBJECT PROPERTY ZONED R-12 PER 2020/04 COMPREHENSIVE ZONING PLAN AND THE "COMP. LITE" ZONING AMENDMENTS EFFECTIVE 7/28/05.
- PUBLIC WATER AND SEWER WILL BE USED WITHIN THIS SITE.
- PUBLIC SEWER PROVIDED BY CONTR. NO. 20-1719
- PUBLIC WATER PROVIDED BY CONTR. NO. 257-W
- PROPERTY SHOWN IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY SILL, ADCOCK & ASSOCIATES IN DECEMBER, 2008.
- TOPOGRAPHY IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY SILL, ADCOCK & ASSOCIATES, LLC, IN DECEMBER 2008. TOPOGRAPHY FOR THE AREAS OFF-SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 1993.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION 410.531.5533
  - BGE (CONTRACTOR SERVICES) 410.850.4620
  - BGE (UNDERGROUND DAMAGE CONTROL) 410.787.9088
  - MISS UTILITY 1.800.257.7777
  - COLUMBIA PIPELINE COMPANY 410.795.1390
  - HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900
  - HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
  - AT&T 1.800.252.1133
  - VERIZON 1.800.743.0033/410.224.9210
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 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 THE START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHT OF WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS OTHERWISE HAVE BEEN APPROVED. SEE GENERAL NOTE #33.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS #7E AND #7F8 WERE USED FOR THIS PROJECT.
- IN ACCORDANCE WITH SECTION 128 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, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
  - WIDTH - 12 FEET (10 FEET SERVING MORE THAN ONE RESIDENCE);
  - SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM);
  - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
  - STRUCTURES (CULVERTS OR BOXES) - CAPABLE OF SUPPORTING 25 GROSS TONS (WES-CADNCS);
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
  - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- DRIVEWAY ENTRANCE TO BE PER HOWARD COUNTY STANDARD DETAIL S7-6.06
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS, OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS, 100 YEAR FLOODPLAIN AND STEEP SLOPES AND THEIR BUFFERS EXCEPT AS APPROVED BY WAIVER PETITION WP-10-033.
- A WETLAND DELINEATION WAS PERFORMED BY SILL, ADCOCK & ASSOCIATES LLC, DATED APRIL, 2010. NO WETLANDS WERE LOCATED ON-SITE.
- THERE ARE NO CEMETERIES, HISTORIC STRUCTURES OR WETLANDS ON-SITE.
- LANDSCAPING HAS BEEN PROVIDED FOR THIS SUBDIVISION IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN ON FILE WITH THE PLAT UNDER F-10-110 IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. CREDIT HAS BEEN TAKEN FOR EXISTING TREELINE TO BE RETAINED ON-SITE. NO PLANTINGS ARE PROPOSED, THEREFORE FINANCIAL SURVEY WAS NOT REQUIRED.
- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY THE ON-SITE RETENTION OF 0.46 ACRES (19,866 SF) OF FOREST UNDER F-10-110. SURETY WAS NOT REQUIRED. A DEED OF FOREST CONSERVATION EASEMENT WAS EXECUTED WITH THE COUNTY UNDER F-10-110 AND THE DEPARTMENT OF PLANNING AND ZONING WILL PERFORM AN INSPECTION TO VERIFY COMPLIANCE WITH THE APPROVED FOREST CONSERVATION PLAN.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT PER THE HOWARD COUNTY DESIGN MANUAL, VOLUME III.
- IN ACCORDANCE WITH THE 2007 MARYLAND STORMWATER DESIGN MANUAL, THIS PROJECT REQUIRES WATER QUALITY AND RECHARGE VOLUME TREATMENT BUT IS EXEMPT FROM PROVIDING CHANNEL PROTECTION VOLUME TREATMENT. WATER QUALITY AND RECHARGE WILL BE TREATED BY THE SHEET FLOW TO BUFFER CREDIT AND INFILTRATION BERMS.
- THE RECORDED 35' REAR BUILDING RESTRICTION LINE (BRL) FOR LOT 2 COINCIDE WITH THE BOUNDARY OF THE 35' ENVIRONMENT SETBACK FROM THE (STEEP SLOPE), THEREFORE THE DISTANCE FROM THE REAR PROPERTY LINES OF LOTS 1 AND 2 WILL VARY IN DISTANCE, NOT TO BE LESS THAN 30' PER THE ZONING REGULATIONS.
- THE PROPOSED IMPACTS TO ENVIRONMENTALLY SENSITIVE FEATURES OR BUFFERS ON LOT 2 ARE CONSIDERED TO BE NECESSARY OR ESSENTIAL DISTURBANCE BY DPZ IN ACCORDANCE WITH SECTION 16.116 (f) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND SHOULD BE IN ACCORDANCE WITH THE CONDITIONS OF APPROVAL OF WAIVER PETITION, WP-10-033.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION, OR BUILDING/GRADING PERMIT.
- TRASH AND RECYCLING WILL BE COLLECTED AT GORMAN ROAD WITHIN 5' OF THE COUNTY ROADWAY
- BRL REFERS TO BUILDING RESTRICTION LINE SETBACKS PER THE HOWARD COUNTY ZONING REGULATIONS. ESR BRL REFERS TO AN ENVIRONMENTAL SETBACK REAR BUILDING RESTRICTION LINE PER THE HOWARD COUNTY SUBDIVISION REGULATIONS.
- THIS PLAN IS SUBJECT TO WP-10-033 TO WAIVE THE FOLLOWING SECTIONS OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS: SECTION 16.116 (1)-(4) - PROTECTION OF STEEP SLOPES; SECTION 16.117 (b) - FOREST CONSERVATION AND PRESERVATION OF NATURAL COVER; SECTION 16.119 (3) - ACCESS RESTRICTIONS; SECTION 16.120 (4) (i), (ii), (iii) & (v); SECTION 16.120 (b) (4) (v) - USEABLE LOT DESIGN. THIS WAIVER WAS APPROVED ON DECEMBER 22, 2009 SUBJECT TO THE FOLLOWING CONDITIONS:
  - COMPLIANCE WITH ALL SRC AGENCY COMMENTS GENERATED IN THE REVIEW OF THE SUBDIVISION AND SITE DEVELOPMENT PLAN.
  - ANY INCREASE IN THE SIZE OF THE PROPOSED HOUSE FOOTPRINT ON LOT 2, INCREASE IN THE LIMIT OF DISTURBANCE OR IN THE NUMBER OF PROPOSED LOTS, AS SHOWN ON THE EXHIBIT ACCOMPANYING THE APPROVED WAIVER PETITION, WILL NEGATE THE CONDITIONAL APPROVAL OF WP-10-033
  - RE-EVALUATION OF THE 75' STREAM BANK BUFFER AT THE FINAL SUBDIVISION PLAN STAGE, BASED ON THE FIELD EXAMINATION IN THE AREA, JUST NORTH OF THE SHARED PROPERTY LINE OF LOTS 1 AND 2, WHERE THE RIVER FLOWS AROUND A SEDIMENT ISLAND, THE STREAM BANK APPEARS CLOSER THAN WHAT IS SHOWN ON THE PLAN.
  - THE APPLICANT SHALL FURTHER EVALUATE THE PROPOSED HOUSE LOCATION ON LOT 2 AT THE SITE DEVELOPMENT PLAN STAGE TO LESSEN THE IMPACT TO THE STEEP SLOPES BY RE-ORIENTING THE FRONT OF THE DWELLING TO AS CLOSE AS POSSIBLE TO THE FRONT 30' BUILDING RESTRICTION LINE (BRL). FOR EXAMPLE, IN ACCORDANCE WITH SECTION 128 OF THE ZONING REGULATIONS, THE FRONT PORCH CAN ENCRUSH UP TO 10' INTO THE FRONT BRL.
  - THE EXACT DRIVEWAY LOCATION FOR THE 20' SINGLE USE UNRESTRICTED ACCESS POINT ONTO GORMAN ROAD IS CONTINGENT UPON THE APPROVAL OF THE SITE DISTANCE ANALYSIS AT THE FINAL SUBDIVISION PLAN STAGE.
  - COMPLIANCE WITH THE FOLLOWING COMMENTS FROM THE DEPARTMENT OF RECREATION AND PARKS, DATED SEPTEMBER 4, 2009:
    - DEDICATION OF OPEN SPACE LOT 3 TO HOWARD COUNTY
    - THE DEVELOPER WILL BE RESPONSIBLE FOR THE APPROVAL OF THE RIGHT OF ENTRY AGREEMENT TO CONNECT TO THE PUBLIC SEWER.
    - THE DEVELOPER WILL HAVE TO COMPLY WITH THE DEPARTMENT OF RECREATION AND PARKS' GENERAL CONDITIONS OF ENTRY.
  - NO GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES ARE PERMITTED WITHIN THE 75' STREAM BANK BUFFER
- PREVIOUS HOWARD COUNTY FILE NO.S: WP-10-033; F-10-110; ECP-10-007; CONTR. NO. 20-1719; CONTR. NO. 257-W.

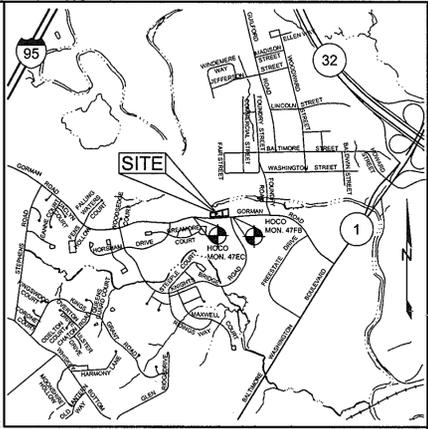


**OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED INFILTRATION BERM (M-4)**

- THE OWNER SHALL INSPECT THE BERM REGULARLY TO ENSURE THAT PONDING WATER DOES NOT CREATE NUISANCE CONDITIONS.
- SIGNS OF CONCENTRATED FLOW AND OTHER SURFACE EROSION SHOULD BE REPAIRED TO PROMOTE SHEET FLOW.
- THE OWNER SHALL ENSURE A DENSE STAND OF VEGETATION IS PRESENT AT ALL TIMES. BERMS SHOULD BE PLANTED WITH MEADOW VEGETATION AND SHRUBS. TURF GRASS MAY BE USED ON BERMS THAT ARE TO BE MOWN. VEGETATION SHOULD BE REPLACED AS NEEDED.

**LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- WALK OUT BASEMENT
- WATER METER
- EXISTING VARIABLE WIDTH PRIVATE SEWER EASEMENT
- EXISTING FOREST CONSERVATION EASEMENT
- EXISTING 10' PUBLIC WATER & UTILITY EASEMENT
- EXISTING 8X10 EASEMENT FOR FIRE HYDRANT
- EXISTING SPECIMEN TREE
- BUILDING RESTRICTION LINE (PER ZONING REGS)
- ENVIRONMENTAL SETBACK REAR BUILDING RESTRICTION LINE (PER SUBDIVISION REGS)



**BENCHMARKS**

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
47EC	534,261.2464	1,359,948.1215	233.710	GORMAN ROAD +1/2 MILE WEST OF RT. 29
47FB	534,295.4029	1,361,228.6196	207.400	GORMAN ROAD +1/4 MILE WEST OF RT. 29

**SITE ANALYSIS DATA CHART**

AREA OF SUBMISSION	DISTURBED AREA	PRESENT ZONING
0.500 AC ±	0.22 AC	R-12
TOTAL UNITS ALLOWED	TOTAL UNITS PROPOSED	OPEN SPACE PROVIDED
1	1	* 0.2690 AC
PARKING SPACES REQ. 2 PER DWELLING	PARKING SPACES PROV. 2 PER DWELLING	DPZ FILE REFERENCES SEE GENERAL NOTE #34

NOTES:  
(\*) OPEN SPACE HAS BEEN PROVIDED FOR UNDER F-10-110, OPEN SPACE LOT 3.

**PERMIT INFORMATION CHART**

SUBMISSION NAME	SECTION / AREA	PARCEL # / LOT
GARBER PROPERTY	N/A	898 (LOT 2)
PLAT	GRID #	ZONING
21395 / 21396	17	R-12
TAX MAP #	ELECT. DIS.	CENSUS TRACT
47	6TH	6069.02

**SHEET INDEX**

SHEET NO.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	SEDIMENT AND EROSION CONTROL PLAN, NOTES AND DETAILS

**ADDRESS CHART**

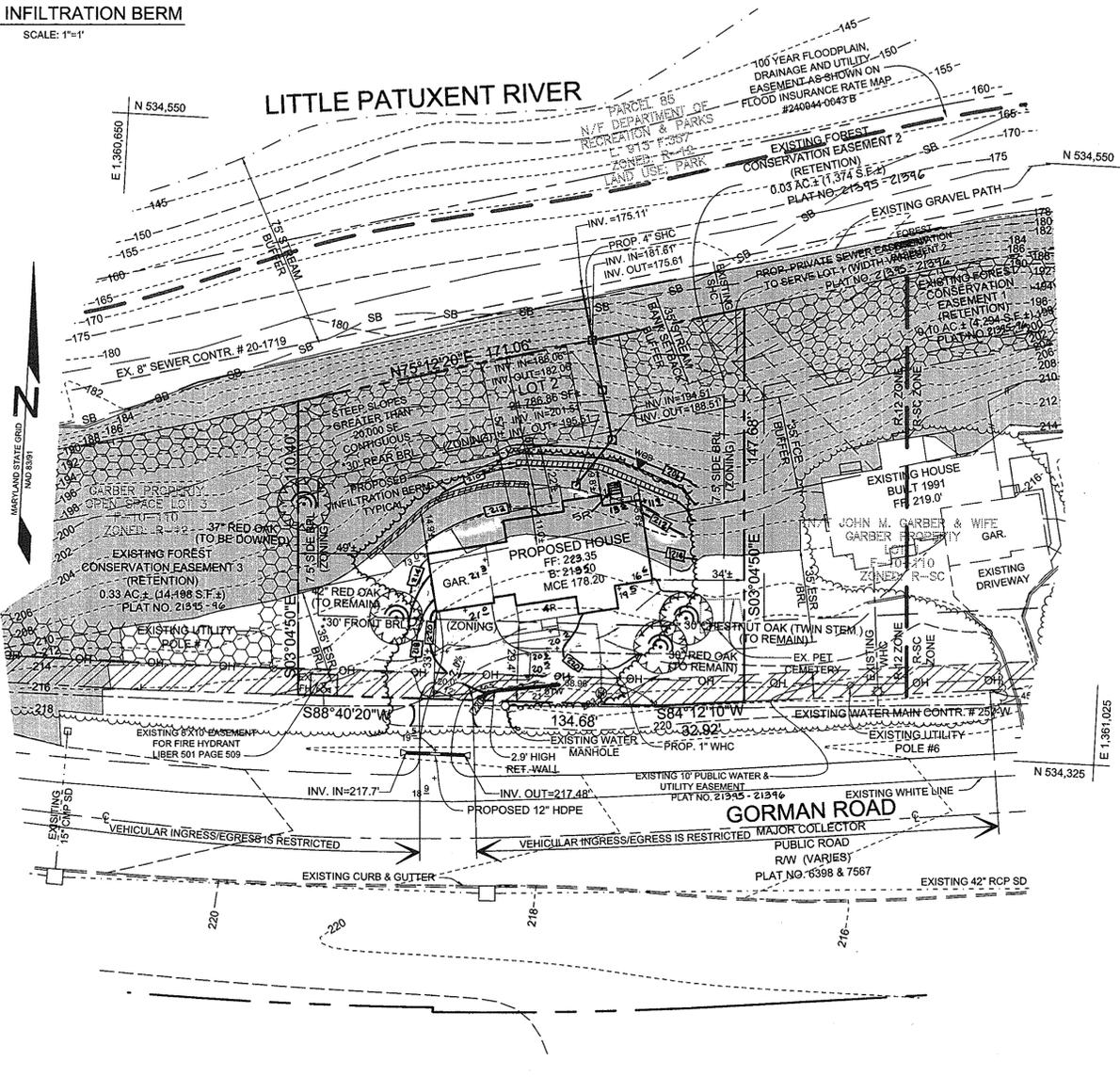
LOT	STREET ADDRESS
2	9104 GORMAN ROAD

OWNER	DEVELOPER
JOHN M. GARBER & WIFE 9100 GORMAN ROAD LAUREL, MARYLAND 20723 1.301.776.3941	HANS RAVEN & MARIE RAVEN 8752 BIRKENHEAD COURT LAUREL, MARYLAND 20723

**SITE DEVELOPMENT PLAN**  
**GARBER PROPERTY, LOT 2**  
 SINGLE FAMILY DETACHED DWELLING  
 9104 GORMAN ROAD  
 ZONED: R-12  
 TAX MAP 47 GRID 17  
 6TH ELECTION DISTRICT  
 DPZ FILE # ECP-10-007;  
 F-10-110; WP-10-033  
 HOWARD COUNTY, MARYLAND  
 PARCEL 898

**Sill · Adcock & Associates · LLC**  
 Engineers · Surveyors · Planners  
 3300 North Ridge Road, Suite 160  
 Ellicott City, Maryland 21043  
 Phone: 443.325.7682 Fax: 443.325.7685  
 Email: info@saaland.com

DESIGN BY: ST  
 DRAWN BY: AM  
 CHECKED BY: ST  
 SCALE: AS SHOWN  
 DATE: NOVEMBER 17, 2010  
 PROJECT #: 10-045  
 SHEET #: 1 of 2

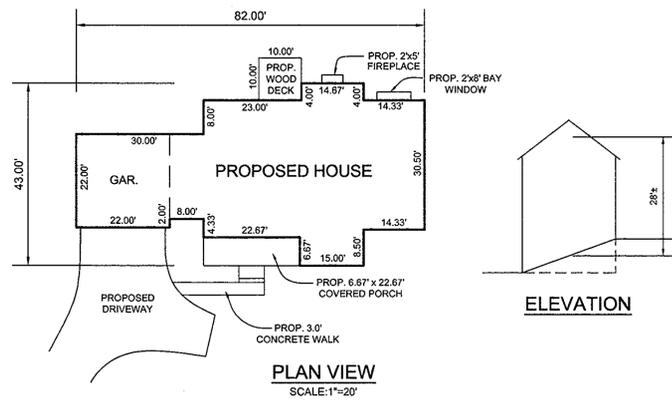


**PLAN VIEW**  
SCALE: 1"=30'

**SEWER HOUSE CONNECTION CHART**

LOT NO.	INVERT @ MAIN	INVERT @ HOUSE	MIN. CELLAR ELEV.
2	175.11'	201.51'	204.80'

NOTES:  
1) SEWER HOUSE CONNECTION AT 5.0%



**ELEVATION**

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: *[Signature]* 12/9/10  
 Chief, Division of Land Development: *[Signature]* 12/10/10  
 Director: *[Signature]* 12/13/10

**REVISIONS**

NO.	DESCRIPTION	DATE
1	REVISE FLOOR ELEVATION & LOT GRADING.	9/1/11

**21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOILS**

**DEFINITION**  
 PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**  
 TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**  
 I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:  
 A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.  
 B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTAINING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.  
 C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.  
 D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRING SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**  
 I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDS-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.  
 II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:  
 I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRICULTURIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAN 1" AND 1/2" IN DIAMETER.  
 II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.  
 III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (000-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.  
 IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRICULTURIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

V. TOPSOIL APPLICATION  
 I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.  
 II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4-5" HIGHER IN ELEVATION.  
 III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM SODDING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.  
 IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/500 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND APPLY 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (14 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOIL. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROOTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (6 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 LBS BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ.FT.) FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROOTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (6 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SEDIMENT CONTROL NOTES**

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).

2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERE TO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEE G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED (SEEING G). DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

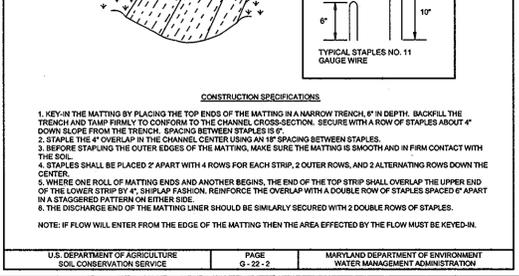
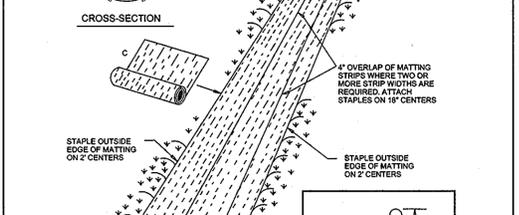
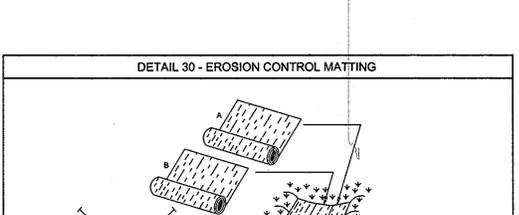
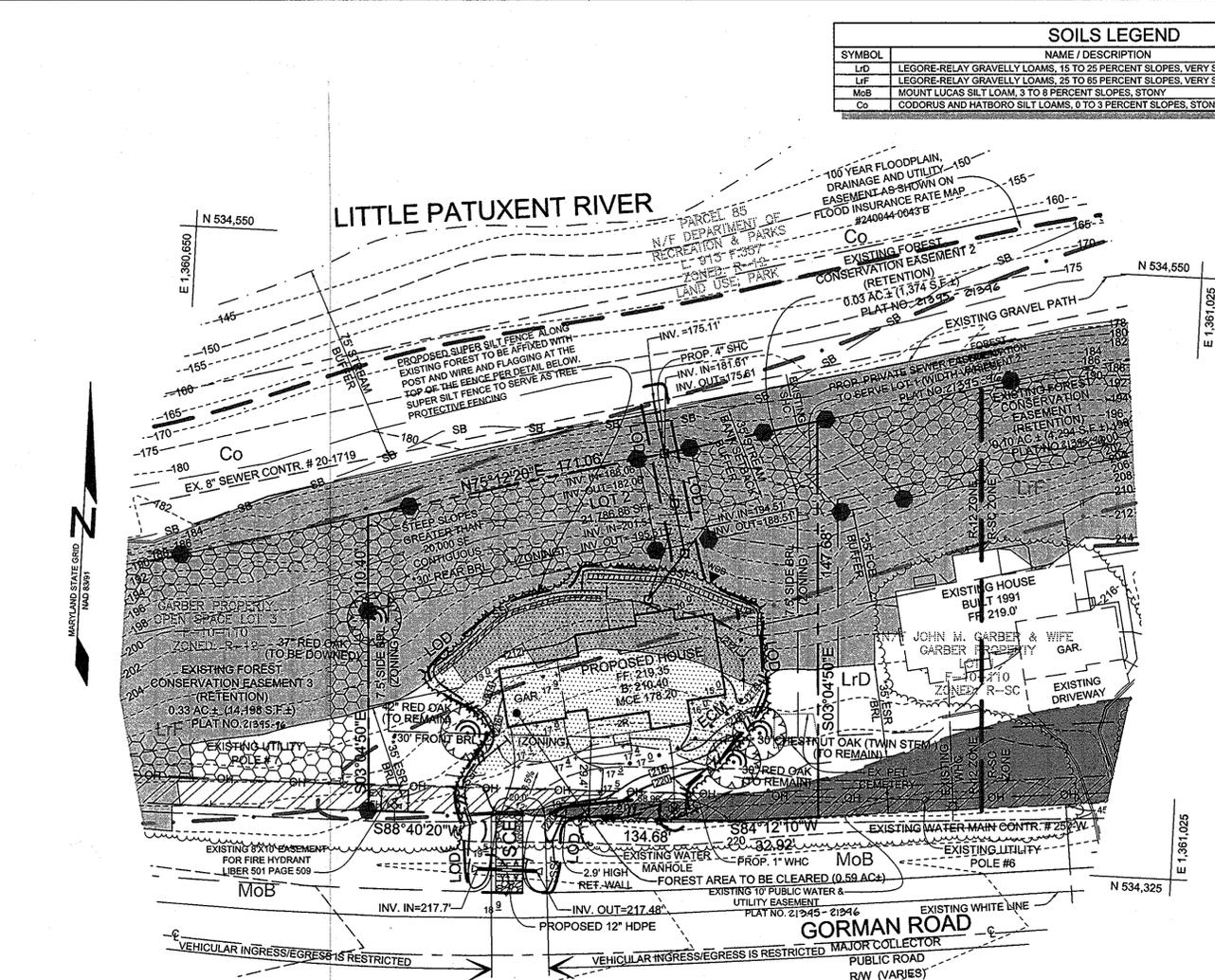
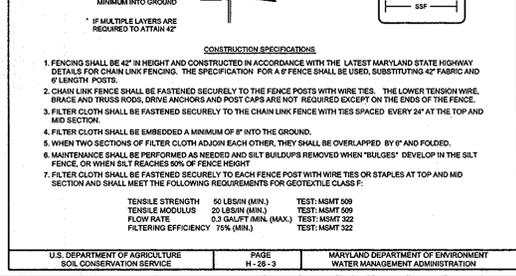
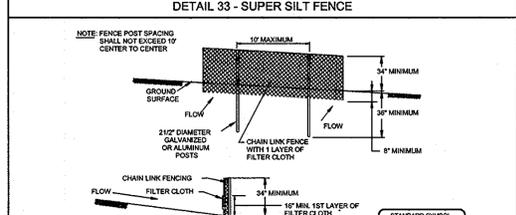
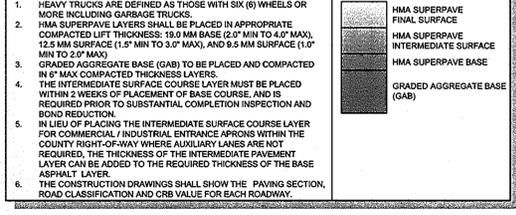
7. SITE ANALYSIS:  
 TOTAL AREA: 0.50 ACRES  
 AREA DISTURBED: 0.22 ACRES  
 AREA TO BE ROOFED OR PAVED: 0.08 ACRES  
 AREA TO BE VEGETATIVELY STABILIZED: 0.14 ACRES  
 TOTAL CUT: 618 CY  
 TOTAL FILL: 65 CY  
 OFFSITE WASTE/BORROW AREA LOCATION:  
 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.  
 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.  
 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.  
 \* EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.  
 \*\* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

**SEQUENCE OF CONSTRUCTION**  
 1. OBTAIN GRADING PERMIT.  
 2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS AT (410) 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.  
 3. INSTALL CULVERT PIPE (1 DAY)  
 4. INSTALL STABILIZED CONSTRUCTION ENTRANCE, TREE PROTECTION FENCE, AND SUPER SILT FENCE. (3 DAYS)  
 5. ROUGH GRADE SITE AND CLEAR TREES, (1 WEEK)  
 6. CONSTRUCT HOUSE AND PAVE DRIVEWAY, (4 MONTHS)  
 7. FINE GRADE SITE AND INSTALL EROSION CONTROL MATTING, (1 WEEK)  
 8. 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)  
 NOTE: - FOLLOWING INITIAL SOIL DISTURBANCE OR ANY REDISTURBANCES, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:  
 A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES AND ALL SLOPES GREATER THAN 3:1.  
 B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.  
 DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.  
 - INSTALLATION OF REQUIRED FOREST PROTECTION AS SPECIFIED IN THE GENERAL CONSTRUCTION NOTES ON THE APPROVED FOREST CONSERVATION PLAN, F-10-110.

**PAVING SECTIONS**

SEC. NO.	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)	1 TO <5 TO <1	3 TO <5 TO <1	27
		PAVEMENT MATERIAL (INCHES)	MIN HMA WITH GAB	HMA WITH CONSTANT GAB	HMA WITH CONSTANT GAB
		HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE (NA)	N/A	N/A	N/A
		HMA SUPERPAVE BASE 18.0 MM, PG 64-22, LEVEL 1 (ESAL)	2.0	2.0	2.5
		GRADED AGGREGATE BASE (GAB)	8.5	7.0	4.0

NOTES:  
 1. HEAVY TRUCKS ARE DEFINED AS THOSE WITH SIX (6) WHEELS OR MORE INCLUDING GARBAGE TRUCKS.  
 2. HMA SUPERPAVE LAYERS SHALL BE PLACED IN APPROPRIATE COMPACTED LIFT THICKNESS: 19.0 MM BASE (2.0" MIN TO 4.0" MAX), 12.5 MM SURFACE (1.5" MIN TO 3.0" MAX), AND 9.5 MM SURFACE (1.0" MIN TO 2.0" MAX).  
 3. GRADED AGGREGATE BASE (GAB) TO BE PLACED AND COMPACTED IN 6" MAX COMPACTED THICKNESS LAYERS.  
 4. THE INTERMEDIATE SURFACE COURSE LAYER MUST BE PLACED WITHIN 2 WEEKS OF PLACEMENT OF BASE COURSE, AND IS REQUIRED PRIOR TO SUBSTANTIAL COMPLETION INSPECTION AND BOND REDUCTION.  
 5. IN LIEU OF PLACING THE INTERMEDIATE SURFACE COURSE LAYER FOR COMMERCIAL / INDUSTRIAL ENTRANCE APRONS WITHIN THE COUNTY RIGHT-OF-WAY WHERE AUXILIARY LANES ARE NOT REQUIRED, THE THICKNESS OF THE INTERMEDIATE PAVEMENT LAYER CAN BE ADDED TO THE REQUIRED THICKNESS OF THE BASE ASPHALT LAYER.  
 6. THE CONSTRUCTION DRAWINGS SHALL SHOW THE PAVING SECTION, ROAD CLASSIFICATION AND CBR VALUE FOR EACH ROADWAY.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 12/9/10

CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 12/10/10

DIRECTOR  
 DATE: 10/13/10

**ENGINEERS CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 COUNTY SEDIMENT CONTROL DISTRICT.  
 SIGNATURE OF ENGINEER: Stephanie Tuite, R.L.P.E.E.D. AP  
 DATE: 11/17/10

**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SEDIMENT CONTROL DISTRICT.  
 SIGNATURE OF DEVELOPER: John M. Garber  
 DATE: 11/18/2010

NO.	DESCRIPTION	DATE

**SEDIMENT AND EROSION CONTROL PLAN, NOTES AND DETAILS**  
**GARBER PROPERTY, LOT 2**  
 SINGLE FAMILY DETACHED DWELLING  
 9104 GORMAN ROAD  
 ZONED: R-12

TAX MAP 47 GRID 17  
 6TH ELECTION DISTRICT

DPZ FILE # EGP-10-007;  
 F-10-110, WF-10-033

PARCEL 898  
 HOWARD COUNTY, MARYLAND

**OWNER**  
 JOHN M. GARBER & WIFE  
 9100 GORMAN ROAD  
 LAUREL, MARYLAND 20723  
 1.301.776.3941

**DEVELOPER**  
 HANS RAVEN & MARIE RAVEN  
 8752 BIRKENHEAD COURT  
 LAUREL, MARYLAND 20723

**Sill · Adcock & Associates · LLC**  
 Engineers · Surveyors · Planners  
 3300 North Ridge Road, Suite 160  
 Ellicott City, Maryland 21043  
 Phone: 443.325.7682 Fax: 443.325.7685  
 Email: info@silladcock.com

DESIGN BY: ST  
 DRAWN BY: AM  
 CHECKED BY: ST  
 SCALE: 1"=30'  
 DATE: NOVEMBER 17, 2010  
 PROJECT #: 10-045  
 SHEET #: 2 of 2

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. 38388, EXPIRATION DATE: JANUARY 12, 2012.