

Impervious Distance Pe Weighted

Recharge is fulfilled by the percent area method, by full disconnection of rooftop Areas D

tequired treatment area is 780 s.f., and fully treated areas total 911 s.f.

1 inches

(DESCRIBE PLANT SUBSTITUTION CREDITS

BELOW IF NEEDED)

A.) TOTAL PROJECT AREA____

E.) PROPOSED USE OF SITE:__

F.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S)____ G.) TOTAL NUMBER OF UNITS PROPOSED __

D.) PRESENT ZONING: _

B.) AREA OF THIS PLAN SUBMISSION _____

C.) APPROXIMATE LIMIT OF DISTURBANCE ____

ESDV (atter reductions)

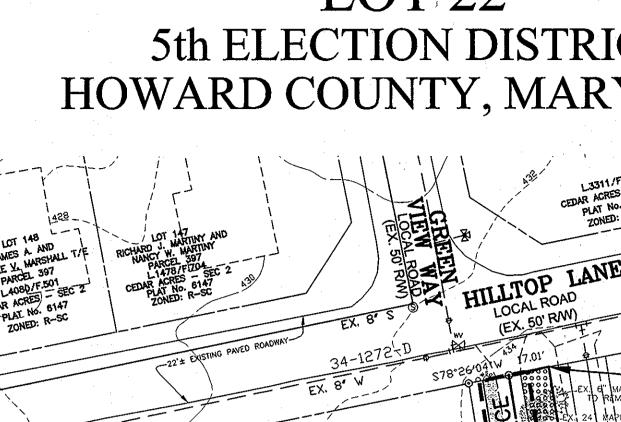
0.73 inches = 0.27 inch

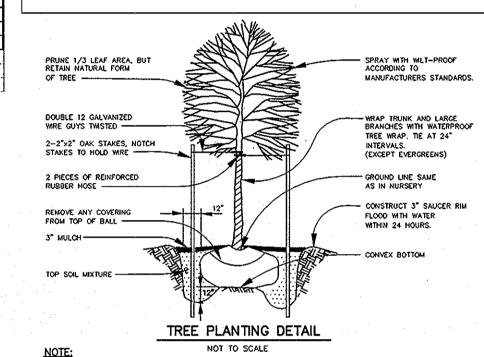
	,			
SCHEDULE A PERIMETER LANDSCAPE	EDGE			
CATEGORY		ADJACEN PERIMETER F	T TO PROPERTY	
LANDSCAPE TYPE	1 A	② A	(3) A	♠ A
LINEAR FEET OF PERIMETER	450'	165'	150'	148'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES* 65 L.F.	YES* 165 L.F.	YES* 150 L.F.	YES* 52 L.F.
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTE) SHRUBS	6 - -	o - -	o -	1 - -
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTE) SHRUBS (10:1 SUBSTITUTE)	7 	o - -	0 	1 -

NOTE: LANDSCAPING SHOWN ON THIS PLAN IS IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A SURETY IN THE AMOUNT OF \$2,400 FOR 8 SHADE TREES WILL BE POSTED WITH THE GRADING PERMIT. THE PORTION OF PERIMETER ADJACENT TO THE ROAD IS NOT SHOWN, AS IT IS ONLY 12' IN WIDTH, ALLOWING FOR THE DRIVEWAY APRON.

SITE DEVELOPMENT PLAN CEDAR ACRES LOT 22

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND





Ground Tek Engineering LLC

eddish - Brown Stiff, Sandy Silt, trace Rock

Dark Yellowish Brown Sandy Silt, w/ Rock Frags

lote: No ground water was encountered in TP-1

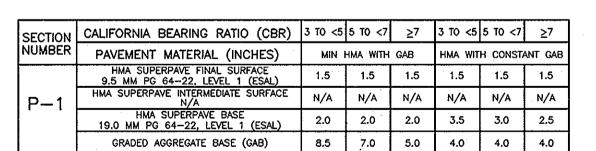
Bottom of Hole (B.O.H)

Note: U.S.C.S were noted as field classification

P.O. Box 782 Bel Air, Maryland 21014

- 1. TREES SHOULD BE PLANTED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVING 2. TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM AN OPEN SPACE ACCESS STRIP AND 10 FEET FROM A DRIVEWAY APRON.
- 3. SEE TREE PLANTING DETAIL THIS SHEET.

LANDSCAPE PLANTING LIST				
SYMBOL	QUANTITY	NAME	NAME REMARKS	
+	4	PLANTANUS ACERFOLIA 'BLOODGOOD' (Bloodgood London Plane)	2 1/2" MIN. CAL. B&B FULL HEAD	
(#)	4	QUERCUS COCCINEA SCARLET OAK	2 1/2" MIN. CAL. B&B FULL HEAD	



P-1 PAVING DETAIL

		+ HMA SUPERPAVE FINAL SURFACE
		HMA SUPERPAVE INTERMEDIATE S
		HMA SUPERPAVE BASE
1.	. / *	CRAPED ACCRECATE

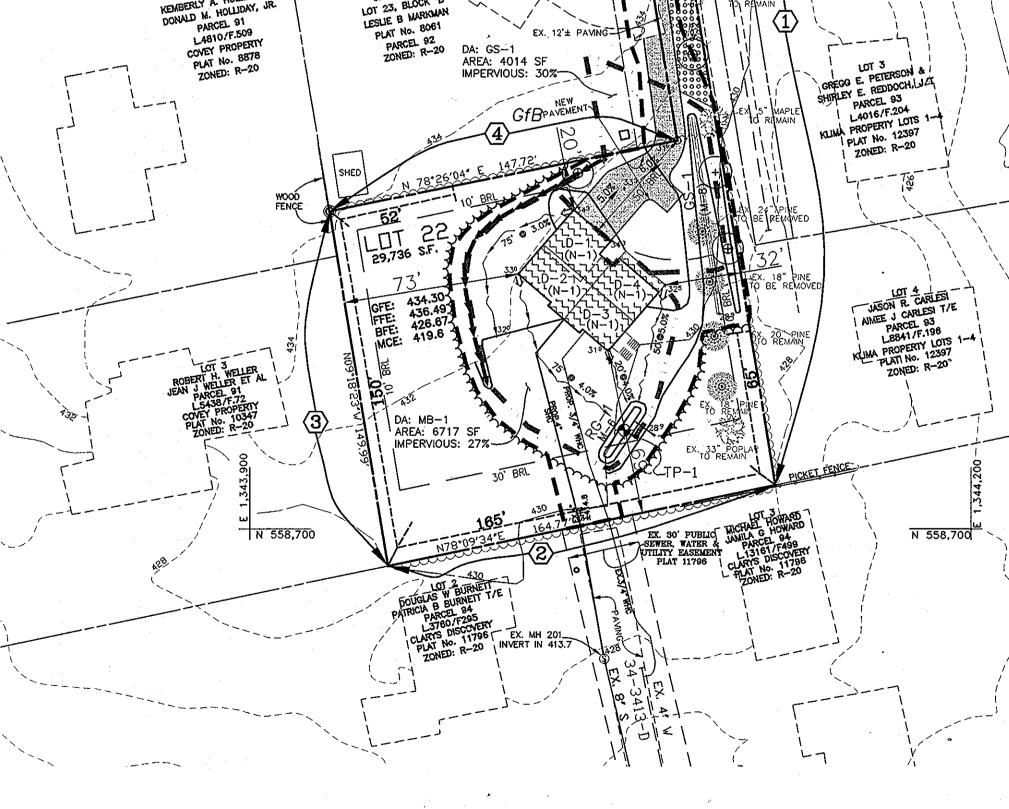
HMA SUPERPAVE INTERMEDIATE SURFACE

HMA SUPERPAVE BASE

H.) APPLICABLE DPZ FILE REFERENCES: ___ .) PROPOSED WATER AND SEWER SYSTEMS: X PUBLIC PRIVATE APPROVED: DEPARTMENT OF PLANNING AND ZONING

SINGLE FAMILY DETACHED

ELEVATION



GRAPHIC SCALE

1 inch = 40 ft.

SOILS LEGEND

HOWARD COUNTY, MD (MD027) NRCS WEB SOIL SURVEY 2.0

THE MAP. THE WEB SOIL SURVEY WEBSITE WAS VISITED IN JUNE, 2011.

B GLADSTONE-URBAN LAND COMPLEX, 0 TO 8 PERCENT

DISCONNECTION OF NON-ROOFTOP THE SUBJECT PROPERTY IS ZONED R-20 PER THE 2/02/04 COMPREHENSIVE ZONING PLAN AND PER COMP. LITE ZONING AMENDMENTS EFFECTIVE 7/28/06. THE EXISTING TOPOGRAPHY AND BOUNDARY ARE TAKEN FROM FIELD RUN SURVEY BY BENCHMARK ENGINEERING, INC. IN MAY, 2011. ALL VERTICAL CONTROLS ARE BASED ON NAVD83. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NOS. 35FA AND 35F1 WERE USED FOR THIS PROJECT. WATER AND SEWER ARE PUBLIC AND CONNECTIONS WILL BE MADE TO IMPROVEMENTS MADE UNDER CONTRACT 34-3413-D.

BENCHMARKS NAD'83 HORIZONTAL

HO. CO. #35FA STAMPED BRASS DISK SET ON TOP OF CONCRETE BASE.

N 559266.1334' E 1344682.6389'

ELEVATION: 410.329'

STAMPED BRASS DISK SET ON TOP OF

N 557787.3788' E 1345217.2645'

ELEVATION: 400,439'

HO. CO. #35F1

CONCRETE BASE

STORMWATER MANAGEMENT METHODS WERE DESIGNED BASED ON THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, CHAPTER 5. THE IMPROVEMENTS WILL BE FULLY TREATED BY ENVIRONMENTAL SITE DESIGN METHODS, INCLUDING ROOFTOP DISCONNECT, NON-ROOFTOP DISCONNECT. AND A RAIN GARDEN. ON-LOT RAIN GARDENS SHALL BE OWNED AND MAINTAINED BY THE HOME OWNER EXISTING UTILITIES SHOWN WERE TAKEN FROM RECORD DRAWINGS PER CONTRACT 34-3413-D. IF NECESSARY, CONTRACTOR SHALL ADJUST STRUCTURE TOPS TO MEET SDP GRADES.

THERE ARE NO WETLANDS ON THE SITE, BASED ON A CERTIFICATION FROM BENCHMARK ENGINEERING,

THIS PROJECT IS EXEMPT FROM A TRAFFIC AND SPEED STUDY.

(g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE GRADING PERMIT 11. 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 12. THERE IS NO FOREST CONSERVATION ACT OBLIGATION FOR THIS PROJECT BECAUSE THE LOT IS LESS THAN

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE

13. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC. BRL INDICATES ZONING BUILDING RESTRICTION LINE, OTHER RESTRICTIONS MAY APPLY. 15. 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. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE. FOR FLAG OR PIPE STEM LOTS. REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE

PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND ROAD RIGHT OF WAY LINE ONLY AND NOT ONTO THE FLAG OF PIPE STEM LOT DRIVEWAY. 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

(a) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE) (b) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2"MIN.) (c) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING

(d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING). (e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY. (f) STRUCTURE CLEARANCES - MINIMUM 12 FEET.

THERE ARE NO CEMETERIES ON THIS PROPERTY, TO THE BEST OF OUR KNOWLEDGE. 20. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF

21. ALL WATER METERS SHALL BE SET INSIDE. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. FOR DRIVEWAY ENTRANCE DETAIL SEE HOWARD COUNTY STANDARD DETAILS R-6.05.

SHC ELEVATIONS SHOWN ARE AT THE PROPERTY LINE OR EASEMENT LINE. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED. 26. DRIVEWAY SLOPES SHOWN ARE AVERAGE. THE SLOPE AT THE OUTSIDE EDGES COULD BE FLATTER OR

STEEPER DEPENDING ON GRADE OF ROADWAY THIS PLAN CONFORMS WITH THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 1993 ZONING REGULATIONS AMENDED BY CB 50-2001. THE BUILDER SHALL APPLY FOR BUILDING PERMITS FOR ALL LOTS AS SHOWN ON THIS SITE DEVELOPMENT PLAN WITHIN TIVE YEARS OF SIGNATURE APPROVAL OF THIS PLAN.

28. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION 29. WATER AND SEWER HOUSE CONNECTIONS WERE INSTALLED TO THIS PROPERTY UNDER CONTRACT 34-3413-D. THE EXISTING WATER HOUSE CONNECTION IS 3/4". THE MECHANICAL ENGINEER FOR THE

PROJECT HAS PROPOSED A PUMP TO ALLOW USE OF THE EXISTING CONNECTION AND PROVIDE SUFFICIENT PRESSURE AND FLOW FOR THE SPRINKLER SYSTEM. 30. ECP-11-064 WAS APPROVED 6/23/2011 AND SIGNED 7/19/2011. THE STORMWATER METHODS ON THIS PLAN ARE FINAL DESIGNS OF THE METHOD SHOWN ON THE ENVIRONMENTAL CONCEPT PLAN. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY FOR THE FLAG LOT DRIVEWAY SHALL BE FABRICATED AND

INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATES. FOR DRIVEWAY ENTRANCE DETAIL SEE HOWARD COUNTY STANDARD DETAILS R-6.06. THE EXISTING DRIVEWAY SHALL BE WIDENED TO 16' AS SHOWN IN PLAN VIEW. THE WIDENING VARIES IN WIDTH, DEPENDING ON LOCATION.

STORMWATER MANAGEMENT PRACTICES OF ROOFTOP OF NON-ROOFTO RUNOFF (NUMBER) (NUMBER)

10843 HILLTOP LANE * NON-ROOFTOP DISCONNECT IS FOR THE SHARED ACCESS/MAINTENANCE DRIVEWAY.

DATE

EXISTING CONTOURS PROPOSED CONTOURS

EXISTING TREELINE PROPOSED TREELINE SOILS CLASSIFICATION

FACILITY DRAINAGE AREA

EXISTING STRUCTURE

PROPOSED STRUCTURE

NON-ROOFTOP

STABILIZED CONSTRUCTION

ENTRANCE

EROSION CONTROL MATTING

EXISTING TREES

LANDSCAPE PERIMETER DESIGNATION LANDSCAPE CREDIT PERIMETER

LANDSCAPE BUFFER TREES

SHEET INDEX

DESCRIPTION SITE DEVELOPMENT PLAN SEDIMENT AND EROSION CONTROL PLAN, NOTES AND DETAILS

BENCHMARK ENGINEERS A LAND SURVEYORS A PLANNERS

ENGINEERING, INC

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. 28376, Expiration Date: 1-1-2013.

LOT STREET ADDRESS 22 | 10843 HILLTOP LANE MINIMUM LOT SIZE CHART LOT NO. GROSS AREA PIPESTEM AREA MINIMUM LOT SIZE
22 29,736 SF 5,111 SF 24,625 SF PERMIT INFORMATION CHART

ZONE

R-20

35

SUBDIVISION NAME:

ADDRESS CHART

BUILDER: LOT/PARCEL SECTION/AREA: CEDAR ACRES LOT 22

5th 6056.01

HITESH AND CHRISTINA PATEL 626 CHAPELGATE DRIVE ODENTON, MARYLAND 21113 410-952-1326

888-864-4272

DRAFT: AAM

CASTLE ROCK BUILDERS 2159 WHITE STREET, SUITE 3 YORK, PENNSYLVANIA 17404 CEDAR ACRES LOT 22

REVISION

TAX MAP: 35, GRID: 11
PARCEL: 92
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND SITE DEVELOPMENT PLAN F-88-60, W/S CONTRACT 34-3413-D

DATE: JULY, 2011 BEI PROJ. NO. 2407

CHECK: CAM | SCALE: AS SHOWN SDP-12-003

C:\Projects\2407 CEDAR ACRES 22\tdwg\8021-SDP-12-003 SHEET 1.dwg, 9/2/2011 8:38:25 AM

SITE ANALYSIS DATA CHART

