General Notes

IMMEDIATELY AT THE CONTRACTOR'S EXPENSE

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA
- STANDARDS AND SPECIFICATION IF APPLICABLE OR AS SPECIFIED. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE BASED SOLEY ON AVAILABLE RECORDS, CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES WHICH MAY BE IMPACTED BY THE WORK. MAINTAIN UNINTERRUPTED SERVICE. ANY

DAMAGE INCURRED DUE TO CONTRACTORS OPERATION SHALL BE REPAIRED

- 3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- 4. THE CONTRACTOR SHALL NOTIFY 'MISS UTILITY' AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE, AND SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PUBLIC RIGHT-OF-WAY, EXISTING PAVING, EXISTING CURB AND GUTTER, EXISTING UTILITIES, ETC. SHALL BE REPAIRED AT THE
- THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH A MAXIMUM OF 2' CONTOUR INTERVALS PREPARED BY LEO.W. RADER, AUG. 2002.
- 6. PUBLIC WATER AND SEWER PROVIDED BY CONTRACT NUMBER 14-3925-D
- 7. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED AND VERIFIED IN ACCORDANCE WITH AASHTO T-180, OR
- 8. THERE ARE NO WETLANDS, FLOODPLAIN, OR STREAMS ON THIS SITE.
- 9. OPERATING EXISTING VALVES, SWITCHES, SERVICES OR START UP OF NEW SERVICES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- 10 TRENCH COMPACTION FOR STORM DRAINS WITHIN THE ROAD OF STREET RIGHT OF WAY LIMITS SHALL BE IN ACCORDANCE WITH
- 11. UNLESS OTHERWISE NOTED, DIMENSIONS FROM CURB ARE MEASURED FROM FACE.
- 12. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WATER. SEWER, AND DRAIN HOUSE CONNECTIONS WITH THE MECHANICAL
- 13. THE CONTRACTOR SHALL MAINTAIN 2.0 FEET MINIMUM PROTECTIVE COVER
- 14. THERE ARE NO KNOWN CEMETERIES OR BURIAL GROUNDS ON THIS SITE, HOWEVER, UPON DISCOVERY OF ANY EVIDENCE OF BURIAL OR GRAVES, THE DEVELOPER WILL BE SUBJECT TO SECTION 16.1305 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOP
- 15. ALL SLOPES 3: 1 OR GREATER, EXCEPT THOSE ASSOCIATED WITH LANDSCAPE BERMING, SHALL BE MONITORED DURING PLACEMENT BY THE PROJEC
- 16. PAVING MARKINGS TO BE "TRAFFIC WHITE"
- 17. CONTRACTOR SHALL MAINTAIN A MINIMUM 2 FOOT BENCH BEHIND
- PIPE SHALL BE UL LISTED, FM APPROVED AND MEET THE AWWA STANDARDS FOR FIRE PROTECTION USE FITTINGS SHALL HAVE PRESSURE CLASS RATINGS
- 19. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4 FEET OF COVER OVER THE PRIVATE WATER MAIN SHOWN HEREON UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE ALL CRIMPS OR VERTICAL BENDS NECESSARY TO MAINTAIN CLEARANCES WITH OTHER UTILITIES.
- 20. THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING OR STRUCTURES ARE TO BE REMOVED, PRIOR TO PLACING A BID ON ALL EXISTING TREES, PAVING, STRUCTURES, ETC., UNLESS NOTED ON PLAN.
- 21. THE SUBJECT PROPERTY IS ZONED B-2.
- 22. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- 23. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$17,040.00
- 24. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL **DEVICES(MUTCD), ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR**
- 25. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLAN COORDINATE SYSTEM. HOWARD COUNTY CONTROL STATIONS NOS, 2445004 AND 2445006 WERE USED FOR THIS PROJECT.
- 26. ALL EXTERIOR LIGHTING SHALL COMPLY WITH ZONING REGULATIONS SECTION 134
- EACH USE UNLESS SUFFICIENT PARKING IS PROVIDED AND DELINEATED ON THIS PLAN. 28. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF
- ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) WORKING DAYS PRIOR TO START OF WORK.
- 29. FOR WORK ZONE TRAFFIC CONTROL NOTES SEE STANDARD NO. MD.10-01
- MARKINGS SHALL BE REMOVED BY GRINDING. 31, ALL PAVING TO BE STANDARD HOWARD COUNTY SECTION P-2.
- 32. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY "INTEGRATED TRANSPORTATION SOLUTIONS,
- 33. THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1202 OF PRELIMINARY APPROVAL AUGUST 9, 1991 - (P90-23) SEE SECTION 16.1202 (b.)(1.)(v)
- 34. QUALITY MANAGEMENT IS PRIVATE AND IS PROVIDED IN THE PROPOSED SURFACE SAND FILTER. QUANTITY MANAGEMENT IS PRIVATE AND IS PROVIDED BY FIVE EXISTING STORMWATER MANAGEMENT PONDS WITHIN THE SUBDIVISION.

BLDG. FLOOR Elev. 161.0 1.0' Parking Area Grade LOADING DOCK Wall #3 Elevation

Troy Hill Corporate Center

Parcel A-29 SDP 03-115

1st Election District Howard County, Maryland Tax Map No. 37

Site Analysis Data Chart

1. GENERAL SITE DATA APPLICABLE DPZ FILE REFERENCES: SDP-98-149, SDP-98-143, SDP-98-169, SDP-98-103, F98169, F98103 P-90-23, GP-96-121, SDP 01-37, F-03-103 EMERGENCY VEHICLE SALES PROPOSED USE: PROPOSED SEWER: -----PUBLIC WATER AND SEWER CONTRACT NUMBER ------14-3925-D (SDP-01-19)

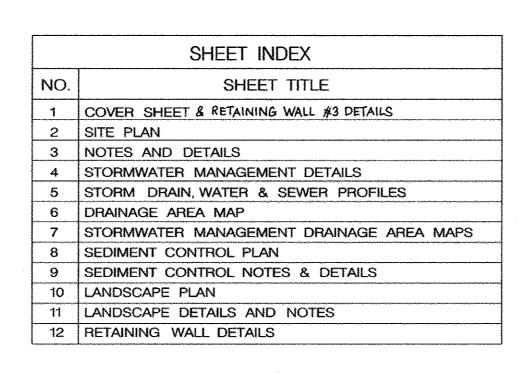
2. AREA TABULATION TOTAL DISTURBED AREA: 3.90 AC FLOOR AREA RATIO: 30,000 SF GROSS FLOOR AREA/4.2573 ACRES = 0.16 BUILDING HEIGHT -----24'

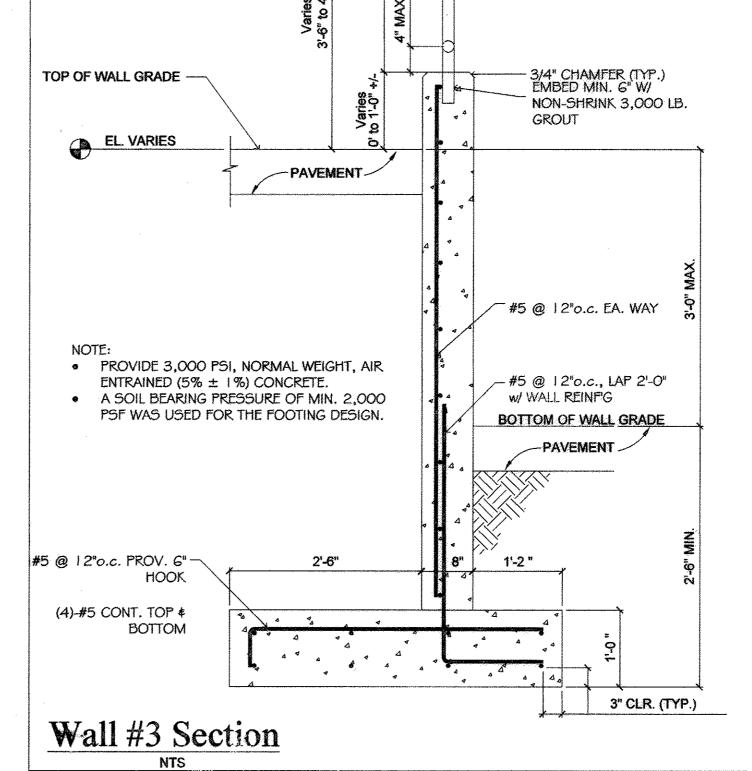
3. OPEN SPACE DATA: N/A

PARKING REQUIRED: (14,400 S.F. SERVICE BAYS/15,600 S.F. SALES) 15,600 S.F. @2. P.S/1000 S.F. = 32

3 P.S. PERTSERVICE BAY = 21 TOTAL REQUIRED: - 53 SPACES REQUIRED TOTAL PROVIDED: TOTAL INCLUDES

46 STANDARD SPACES @ 9'X 18'; 2 SPACES @ 11'X 18'; 5 SPACES @ 11'X 22' 3 STANDARD HANDICAP SPACES @ 8' X 16' WITH 5' ACCESS AISLE 1 VAN ACCESSIBLE HANDICAP SPACES @ 8' X 18' WITH 8'ACCESS AISLE

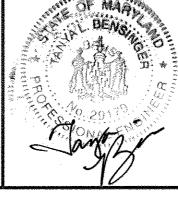




STEEL PIPE RAIL, POST 6'-0" O.C.

Matis Warfield

consulting engineers 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com



Rev#2 - 1/21/2013 - Added Retaining Wall #3 Details for loading dock area. lev#1 - 9/17/2012 - Updated owner info, proposed use and parking calculations

OWNER/DEVELOPER LAAKE ACQUISITION LLC c/o FESCO EMERGENCY SALES 6401 MACAW COURT **ELKRIDGE MD 21075** (410) 379-5353 x-29 Attn: Doug DeLawter

Troy Hill Corporate Center I, LLC c/o Manekin Corporation 7061 Columbia Gateway Drive Columbia, MD 21046 (410) 290-1488 Attn: Dave Meiners

6339 Howard Lane Elkridge MD 21075 (410) 796-1044 ittn: Katina Wehner

Harley Davidson of Maryland

PAINTED (3) LIKE

N 497636.7437 E 869835.6586 ELEV. = 214.85APPROVED: Department of Planning and Zoning DIVISION OF LAND DEVELOPMENT

VICINITY MAP

SCALE: 1" = 2000'

(COORDINATES BASED ON N.A.D. 27. AS PROJECTED BY HOWARD COUNTY GEOMETRIC CONTROL STATIONS #2445004 AND #2445005.)

IRON PIN @ TRAVERSE #1066

N 496501.3597 E 869134.4576

IRON PIN @ TRAVERSE #1061

N 498036.6945 E 868791.1502

IRON PIN @ TRAVERSE #1034

BENCHMARK #1

ELEV. = 175.92

BENCHMARK #2

ELEV. = 242.49

BENCHMARK #3

TROY HILL CORPORATE CENTER PARCEL A-29 TROY HILL DRIVE

B-2

7010 Troy Hill Drive

SECTION NAME

Title Sheet

BLOCK # ZONE ZONE MAP ELECT. DIST. CENSUS TRAC

SEWER CODE 2152200

Election District #1 Deed Ref: 5378/542 Tax Map 37, Parcel A-29

SDP 03-115

ADDRESS CHART

SUBDIVISION NAME

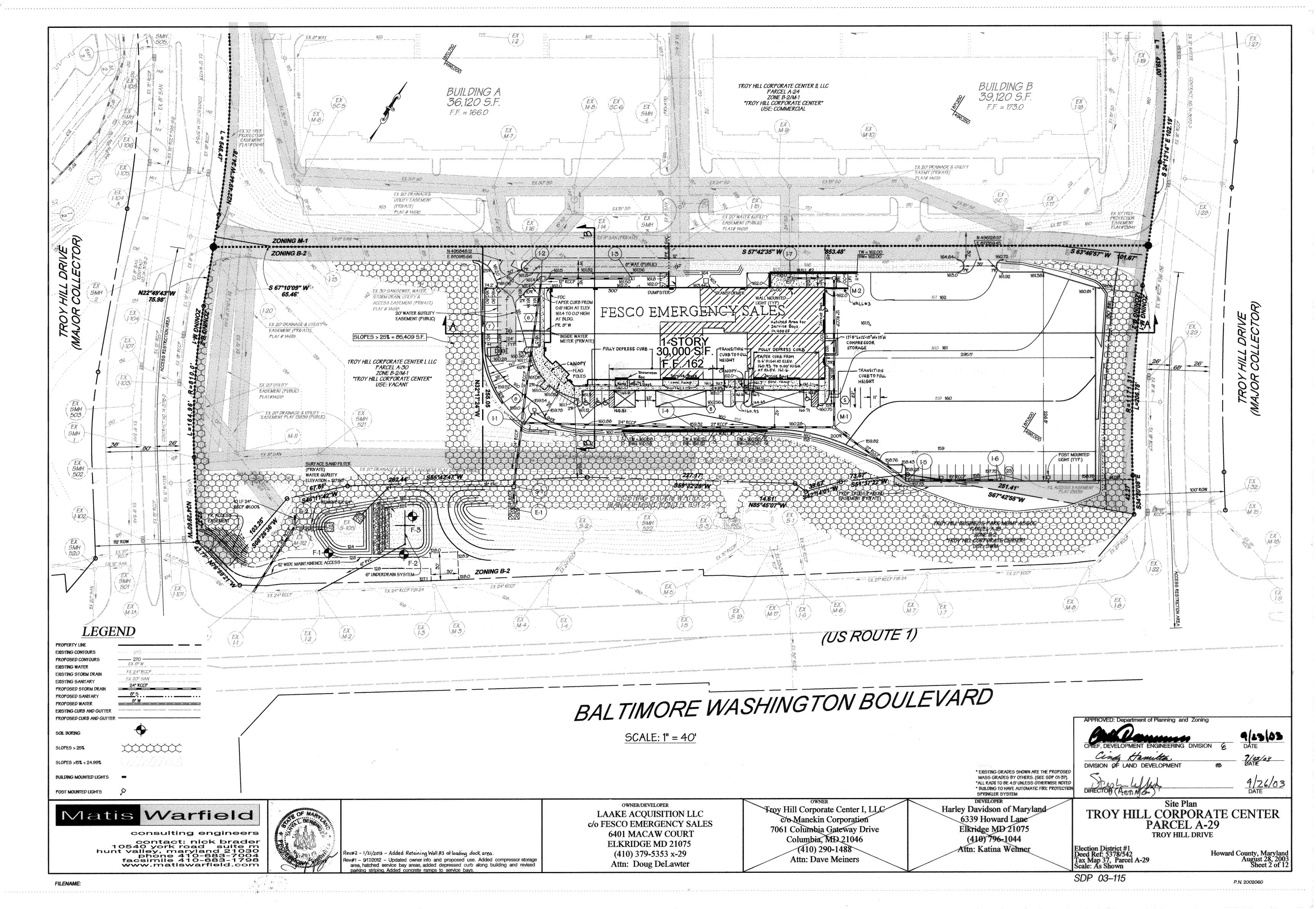
WATER CODE A03

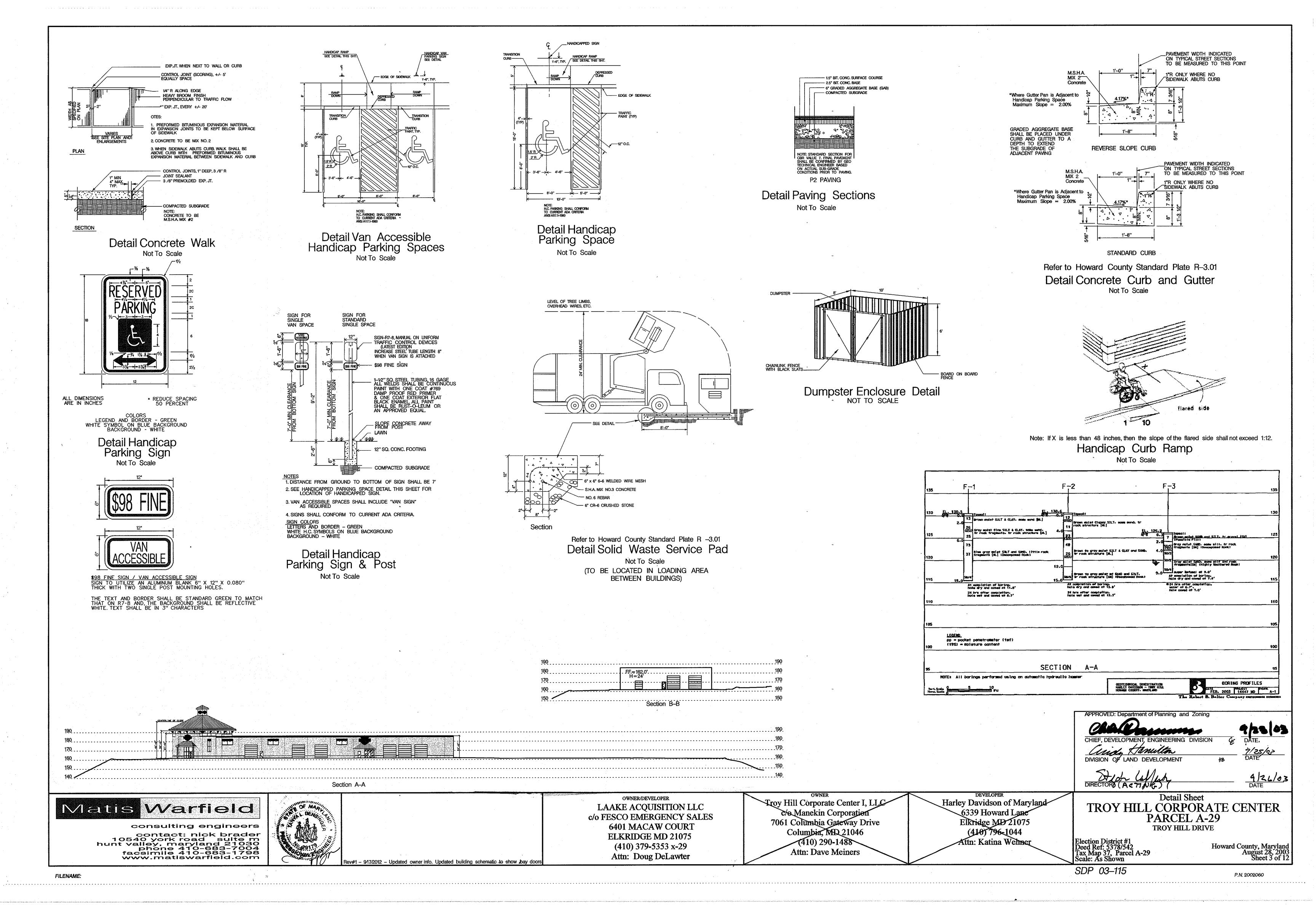
Troy Hill Corporate Center

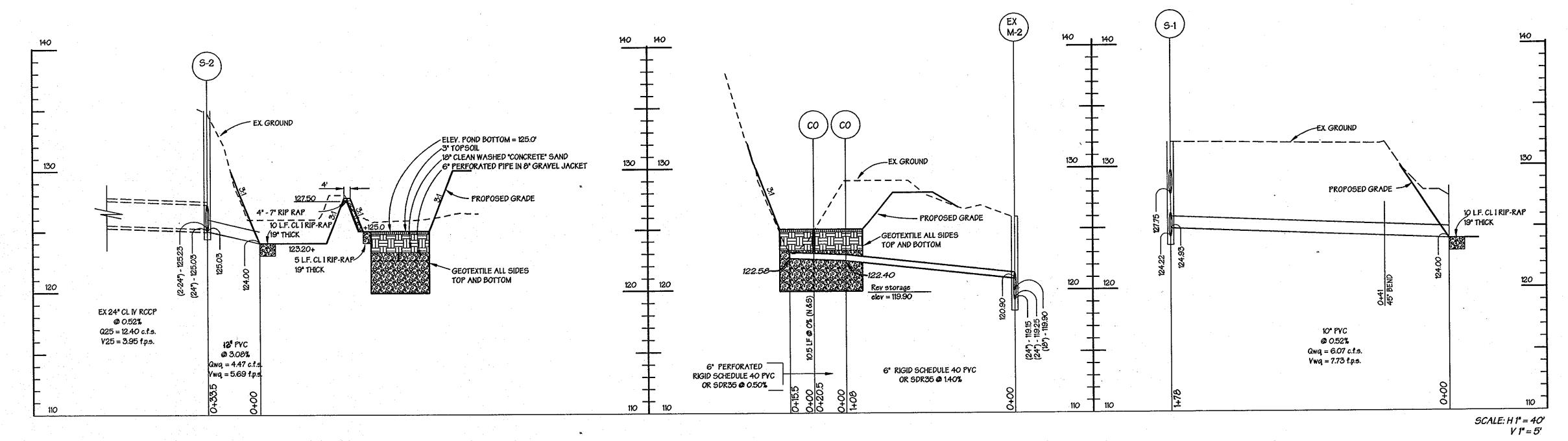
PARCEL NO. STREET ADDRESS

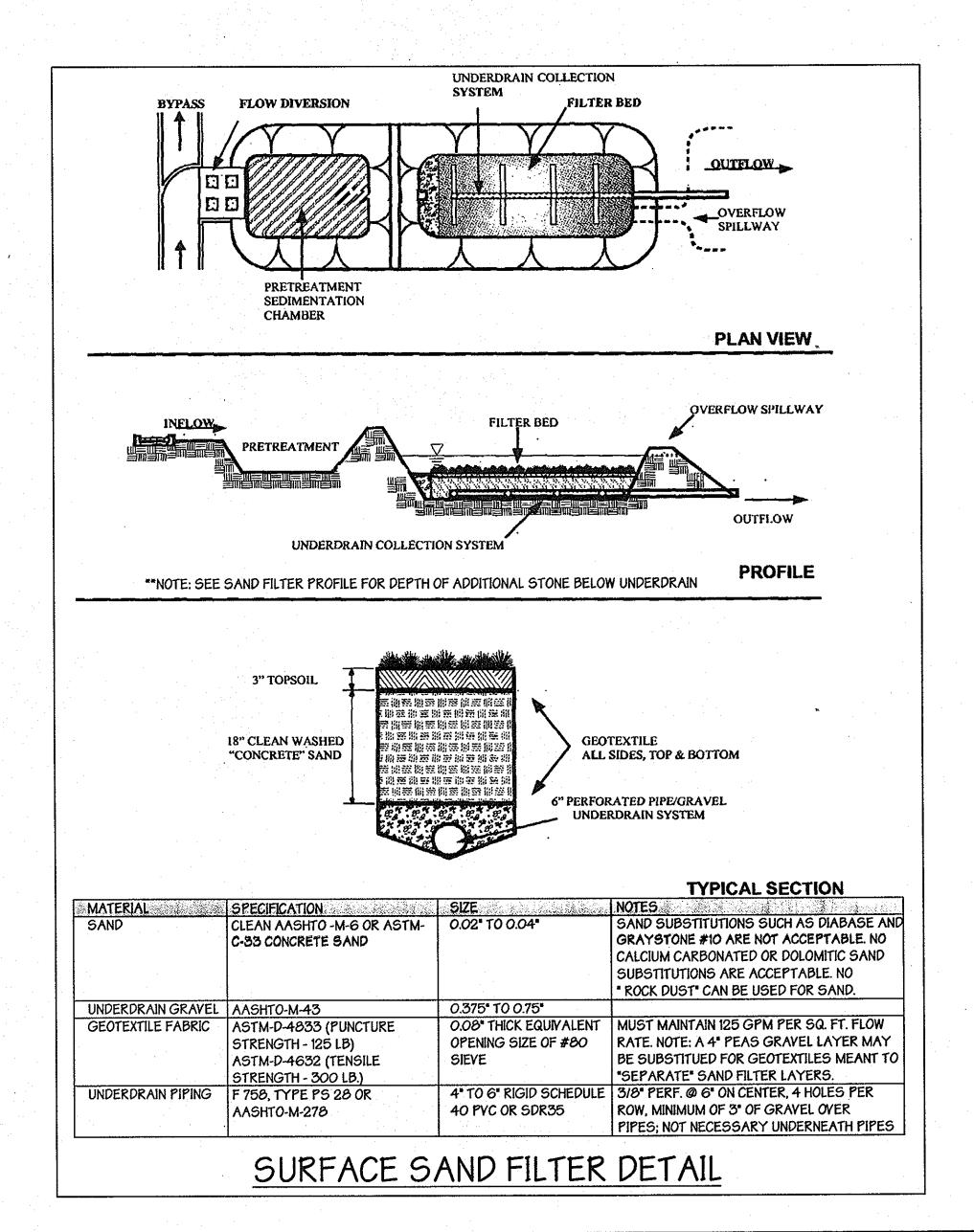
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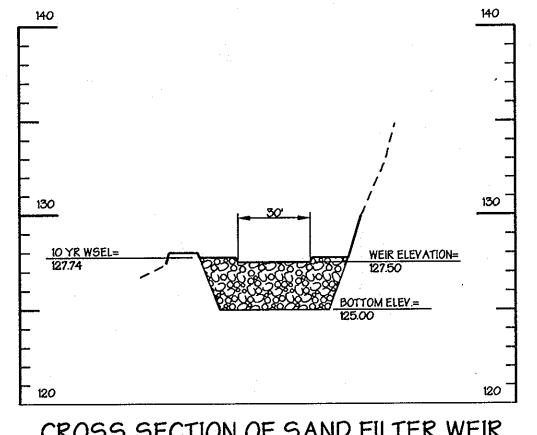
PARCEL #







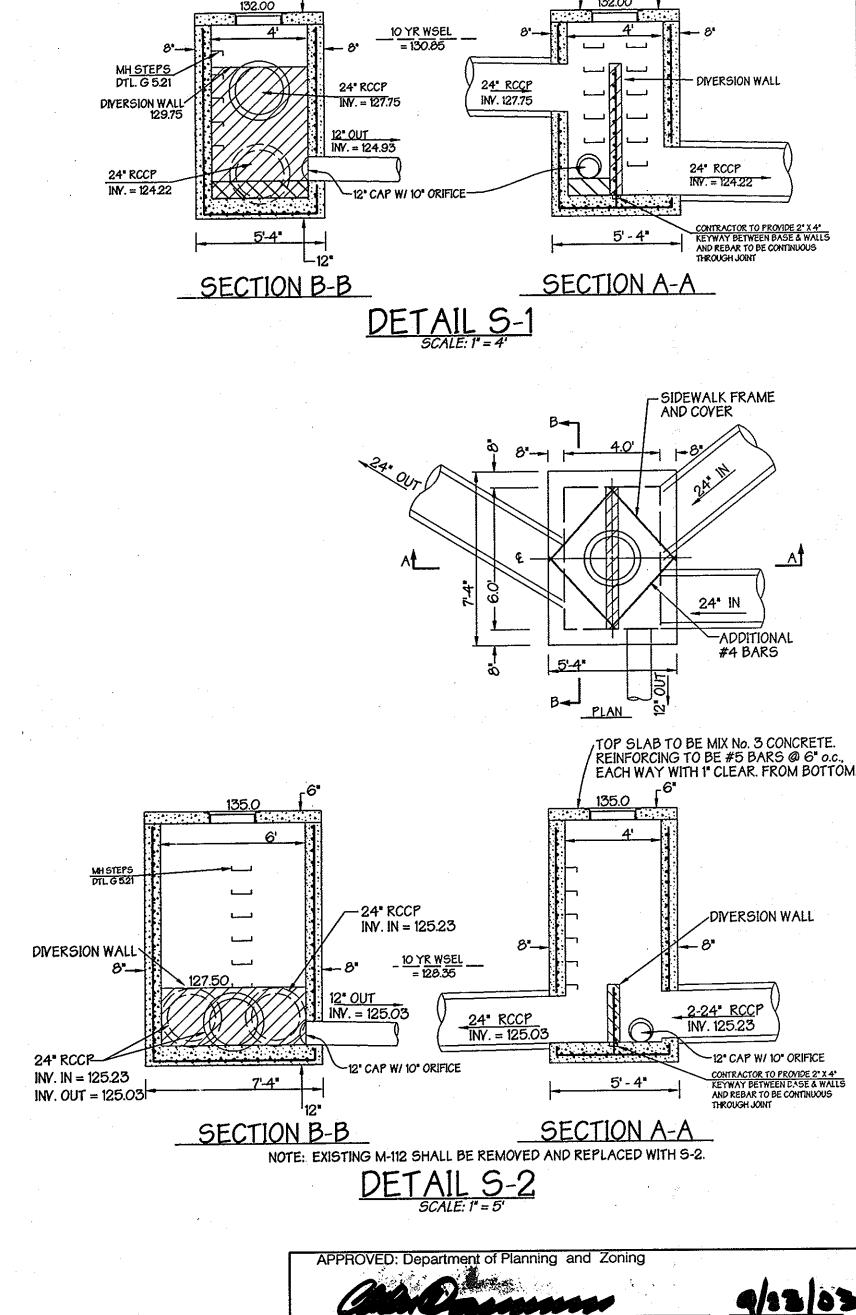




CROSS SECTION OF SAND FILTER WEIR SCALE: H 1" = 40'

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED SURFACE STORMWATER FILTRATION SYSTEMS

- 1. The stormwater wetland facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.
- 2. The top and side slopes of the embankment shall be mowed a minimum of once per year, when vegetation reaches 18" in height or as needed.
- 3. Filters that have a grass cover shall be moved a minimum of three (3) times per growing season to maintain a maximum grass height of less than 12 inches.
- 4. Debris and litter shall be removed during regular mowing operations and as needed.
- 5. Visible signs of crosion in the facility shall be repaired as soon as it is noticed.
- 6. Remove silt when it exceeds four (4) inches deep in the forebay.
- 7. When water ponds on the surface of the filter bed for more than 72 hours, the top few inches of discolored material shall be replaced with fresh material. Proper cleaning and disposal of removed materials and liquid must be followed by the owner.
- 8. A logbook shall be maintained to determine the rate at which the facility drains.
- 9. The maintenance logbook shall be available to Howard County for Inspection to insure compliance with operation and maintenance criteria.
- 10. Once the performance characteristics of the infiltration system have been verified, the monitoring schedule can be reduced to an annual basis unless the performance data indicates that a more frequent schedule is required.



OWNER/DEVELOPER

LAAKE ACQUISITION LLC c/o FESCO EMERGENCY SALES 6401 MACAW COURT ELKRIDGE MD 21075 (410) 379-5353 x-29 Attn: Doug DeLawter

Froy Hill Corporate Center I, LLC c/o Manekin Corporation 7061 Columbia Gateway Drive Columbia, MRQ 21046 Attn: Dave Meiners

Harley Davidson of Maryland 6339 Howard Lane Elkridge MD 21075 kttn: Katina Wehner

Stormwater Management Details
TROY HILL CORPORATE CENTER
PARCEL A-29 TROY HILL DRIVE

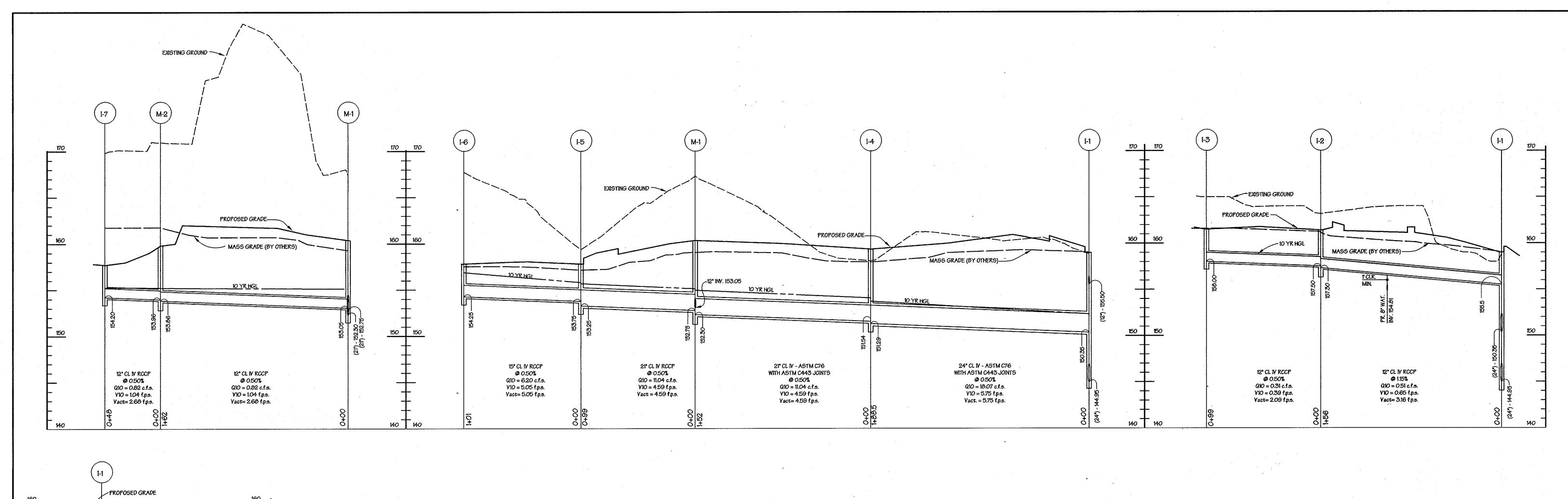
Deed Ref: 5378/542 Tax Map 37, Parcel A-29 Scale: As Shown

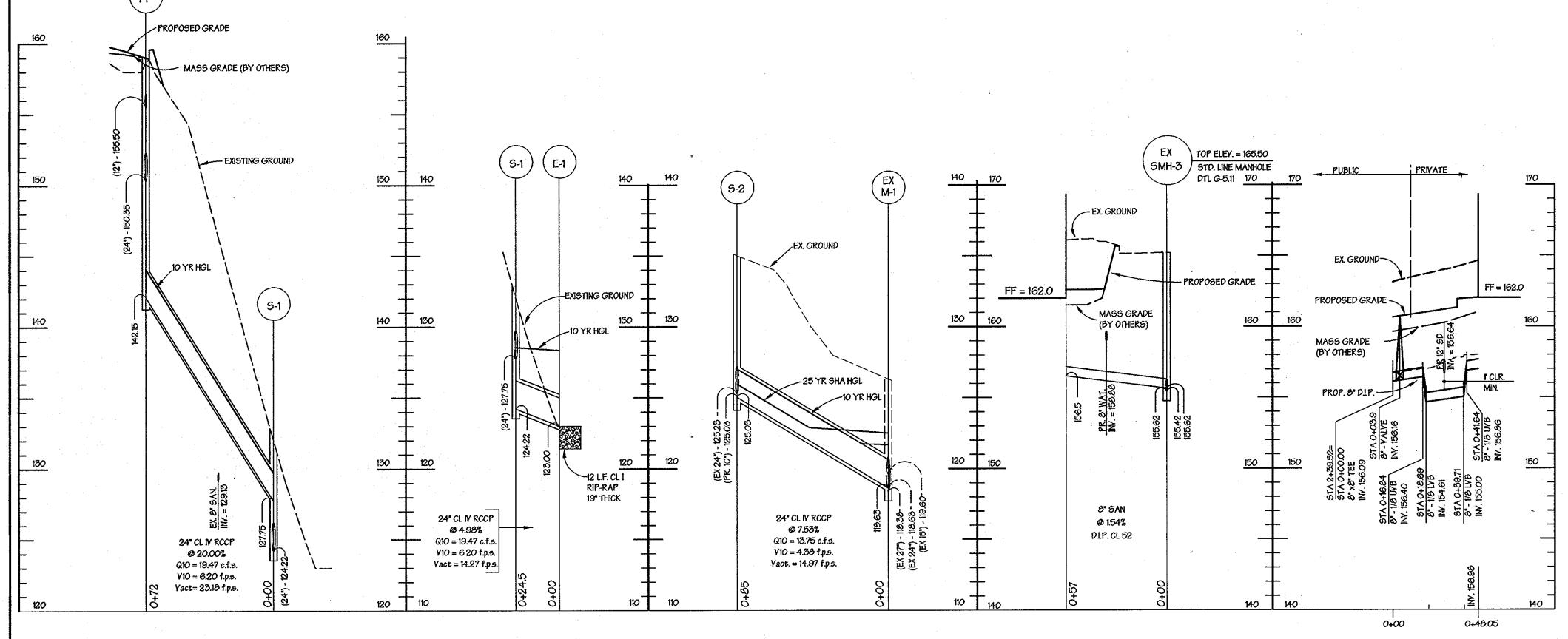
TOP SLAB TO BE MIX No. 3 CONCRETE. REINFORCING TO BE #5 BARS @ 6° o.c., EACH WAY WITH 1° CLEAR. FROM BOTTON

Matis Warfield consulting engineers

contact: nick brader 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com

Rev#1 - 9/17/2012 - Updated owner info.

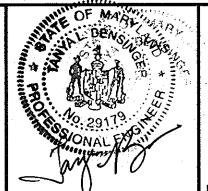




SCALE: H 1" = 40' V 1" = 5'

Matis Warfield

consulting engineers
contact: nick brader
10540 york road suite m
hunt valley, maryland 21030
phone 410-683-7004
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OWNER/DEVELOPER

LAAKE ACQUISITION LLC

c/o FESCO EMERGENCY SALES

6401 MACAW COURT

ELKRIDGE MD 21075

(410) 379-5353 x-29

Attn: Doug DeLawter

OWNER
Troy Hill Corporate Center I, LLC
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Elkridge MD 21075
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CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF ENGINEERING DIVIS

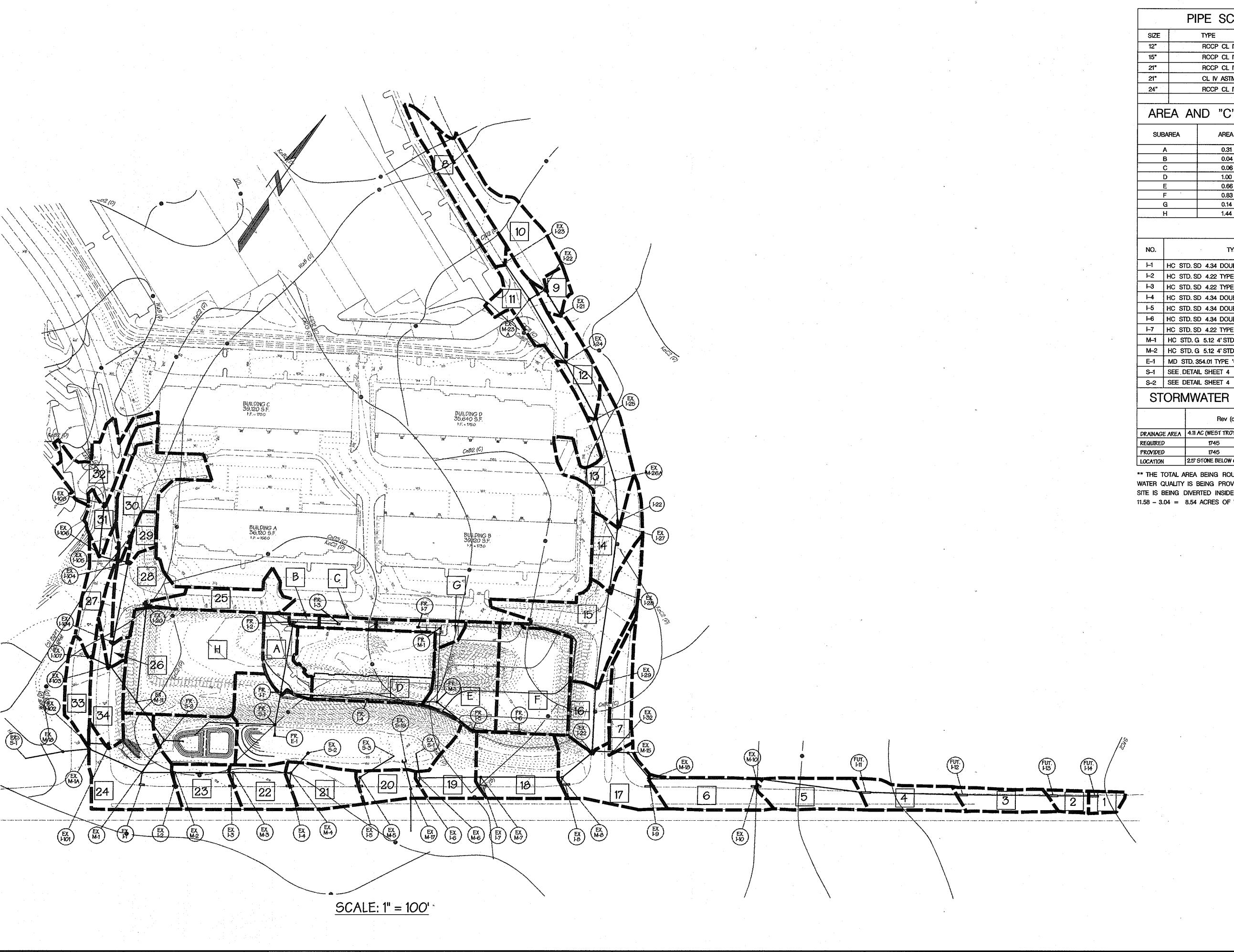
Storm Drain, Water and Sewer Profiles
TROY HILL CORPORATE CENTER
PARCEL A-29
TROY HILL DRIVE

Election District #1 Deed Ref: 5378/542 Tax Map 37, Parcel A-29 Scale: As Shown

Howard County, Maryla August 28, 20 Sheet 5 of

SDP 03-115

P.N. 2002060



	PIPE SCHED	ULE
SIZE	TYPE	PIPE LENGTH-FEET
12"	RCCP CL IV	465'
15"	RCCP CL IV	101.0'
21"	RCCP CL IV	99.0'
21"	CL IV ASTM C76	152.0'
24"	RCCP CL IV	380.0'
		1

AREA AND "C" FACTOR TABULATION "C" FACTOR PERCENT 81% 50% 50% 94%

****	Н	1.44	0.81		85%			
			STRUCTU	RE S	CHEDU	JLE		
NO.		TYPE	II.	IV. IN	INV. IN	INV. OUT	TOP ELEV.	REMARKS
1–1	HC STD. S	D 4.34 DOUBLE "S"	COMB. INLET 15	5.50	150.35	142.15	159.40	
⊢ 2	HC STD. S	D 4.22 TYPE "S" IN	LET . 15	7.50		157.30	161.40	
- 33	HC STD. S	D 4.22 TYPE "S" IN	LET	-		158.00	161.50	
I4	HC STD. S	D 4.34 DOUBLE "S"	COMB. INLET 15	1.54		151.29	159.32	
⊢ 5	HC STD.S	D 4.34 DOUBLE "S"	COMB. INLET 15	3.75		153.25	157.73	,2
⊢ 6	HC STD.S	D 4.34 DOUBLE "S"	COMB. INLET	-		154.25	157.75	
⊢ 7	HC STD. S	D 4.22 TYPE "S" IN	LET	- 1		154.20	157.70	
M-1	HC STD. G	5.12 4' STD. PRECA	NST 15	3.05	152.75	152.30	160.34	
M-2	HC STD. C	5.12 4' STD. PRECA	NST 15	3.96		153.86	159.80	:
E-1	MD STD. 3	54.01 TYPE 'C' ENDV	VALL	-		123.00	-	

96% 64%

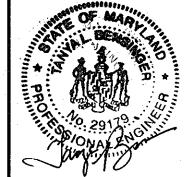
STORMWATER MANAGEMENT SUMMARY TABLE

Rev (c.f.)	WQv (c.f.)	WQv (c.f.)	Qp10 (cfs)	Qp100 (cfs)
4.11 AC (WEST TROY HILL DR. + AREA H)	& 3.04 AC (HARLEY) = 7.15 AC	8.54 AC.	NA.	NA NA
1745	13,960	24,738	NA NA	NA NA
1745	14,066	38,520	NA .	. NA
2.5' STONE BELOW 6' UNDERDRAINS	SURFACE SAND FILTER	EX. WQ FACILITY #5	NA NA	NA.
	4.11 AC (WEST TROY HILL DR. + AREA H) 1745 1745	4.11 AC (WEST TROY HILL DR. + AREA H) & 3.04 AC (HARLEY) = 7.15 AC 1745 13,960 1745 14,066	4.11 AC (WEST TROY HILL DR. + AREA H) & 3.04 AC (HARLEY) = 7.15 AC 8.54 AC. 1745 13,960 24,738 1745 14,066 38,520	4.11 AC (WEST TROY HILL DR. + AREA H) & 3.04 AC (HARLEY) = 7.15 AC 8.54 AC. NA 1745 13,960 24,738 NA 1745 14,066 36,520 NA

11.58 - 3.04 = 8.54 ACRES OF WATER QUALITY IS BEING PROVIDED IN THE EXISTING FACILITY #5.

Matis Warfield

consulting engineers contact: nick brader 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com



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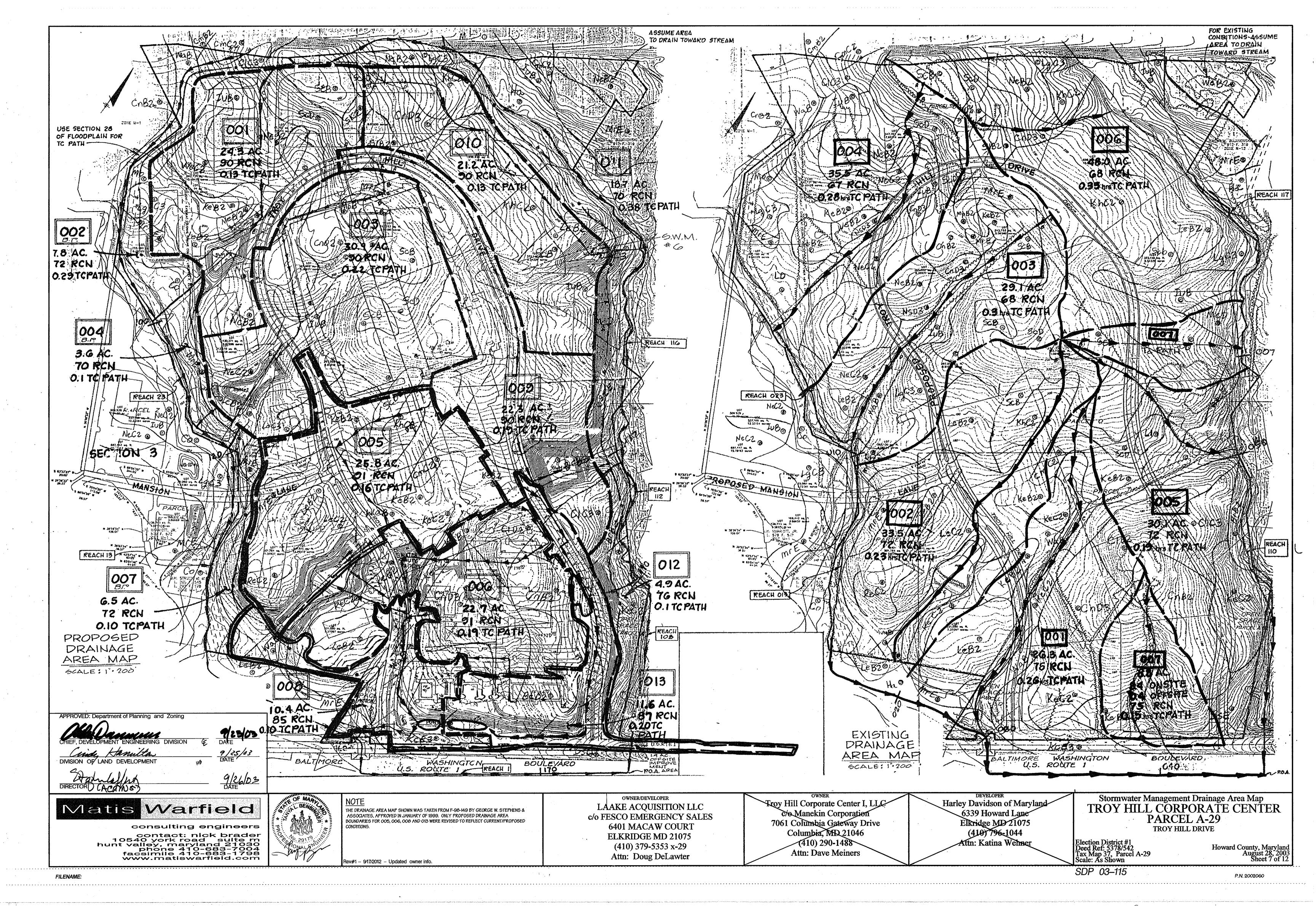
Troy Hill Corporate Center I, LLC c/o Manekin Corporation
7061 Columbia Gateway Drive Columbia, MD 21046 (410) 290-1488 Attn: Dave Meiners

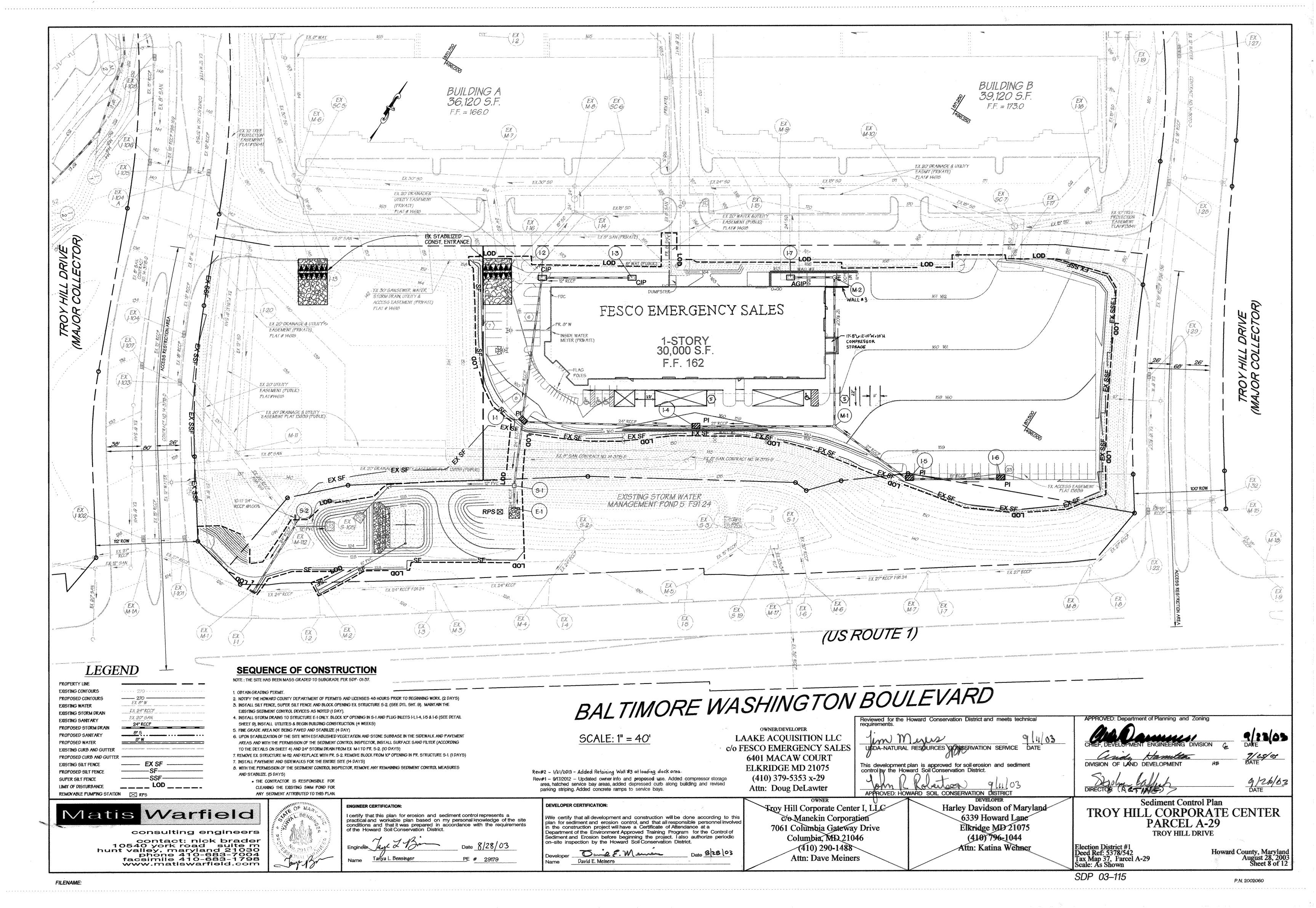
Harley Davidson of Maryland 6339 Howard Lane Attn: Katina Wehne

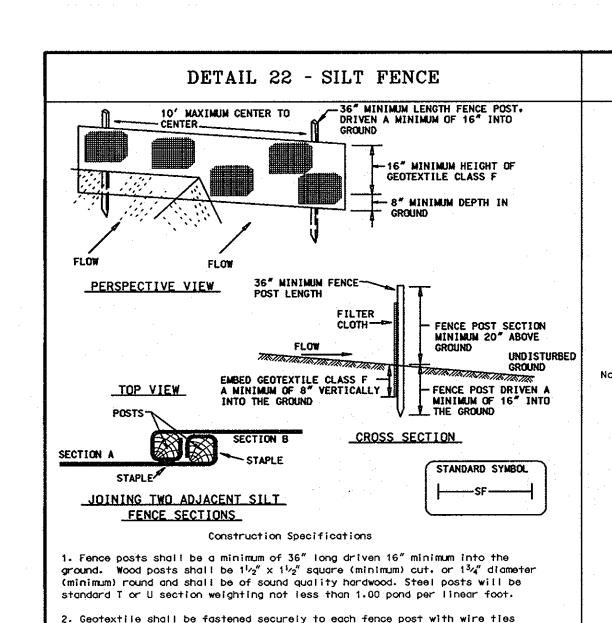
Drainage Area Map
TROY HILL CORPORATE CENTER
PARCEL A-29
TROY HILL DRIVE

Election District #1 Deed Ref: 5378/542 Tax Map 37, Parcel A-29 Scale: As Shown

SDP 03-115







or staples at top and mid-section and shall meet the following requirements

50 lbs/in (min.)

20 lbs/in (min.)

3. Where ends of geotextile fabric come together, they shall be overlapped.

4. Silt Fence shall be inspected after each rainfall event and maintained when

bulges occur or when sediment accumulation reached 50% of the fabric height-

0.3 gal ft²/ minute (max.) Test: MSMT 322

Test: MSMT 509

Test: MSMT 509

for Geotextile Class F:

Flow Rate

Tensile Modulus

Filtering Efficiency 75% (min.)

folded and stapled to prevent sediment bypass.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE SILT FENCE - MOUNTABLE Stit Fence Design Criteria --- EARTH FILE (Maximum) (Maximum) ** GEOTEXTILE CLASS 'C'-Silt Fence Length Slope Length OR BETTER MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF STRUCTURE LEXISTING GROUND unlimited unlimited PROFILE 1,000 feet 125 feet 100 fee-750 feet Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soi! Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control

radius.

LOYEGRASS

ANNUAL RYEGRASS

PIPE AS NECESSARY PLAN VIEW SCE. Construction Specification Length - minimum of 50' (*30' for single residence lot). 2. Width - 10' minimum, should be flared at the existing road to provide a turning

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile

4. Stone – crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required. 6. Location - A stabilized construction entrance shall be located at every point

where construction traffic enters or leaves a construction site. Vehicles leaving

the site must travel over the entire length of the stabilized construction entrance.

5. Surface Water - all surface water flowing to or diverted toward construction

TANIANA 36" MINIMA FLOW WITH 1 LAYER OF FILTER CLOTH "2" DIAMETER GALVANIZED OF SIX (6) GAUGE OR HEAVIER-CHAIN LINK FENCING-GEOTEXTILE CLASS A FILTER CLOTH. MINIMUM-POST EMBED FILTER CLOTH 8"_____ STANDARD SYMBO LAY FILTER CLOTH IN BOTTOM OF 24" MIN. WIDE TRENCH Construction Specifications Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway (SHA) Details for Chain Link Fencing. The

DETAIL 33 - SUPER SILT FENCE

SHA specifications for a 6 foot fence shall be used, substituting 42 inch fabric and 6 foot length posts. 2. The posts do not need to be set in concrete.

U.S. DEPARTMENT OF AGRICULTURE

SHALL NOT EXCEED 10' CENTER TO CENTER

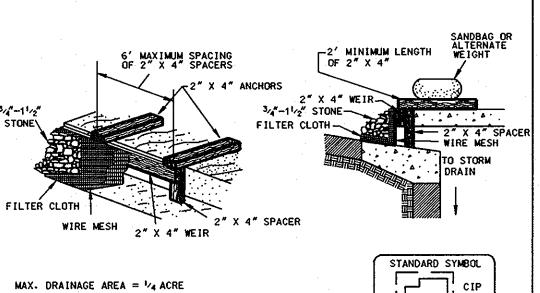
3. Chain link fence shall be fastened securely to the fence posts with wire ties or staples. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. The chain link fence shall be six (6) gauge or heavier.

4. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

5. Filter cloth shall be embedded a minimum of 8" into the ground.

6. When two sections of geotextile fabric adjoin each other, they shall be overlapped by 6" and folded

Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of the fence height



CURB INLET PROTECTION (COG OR COS INLETS)

Construction Specifications

Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4') to the 2" imes 4" weir (measuring throat length plus 2') as shown on the standard

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire esh over the wire mesh and securely attach it to the $2'' \times 4''$ weir. 5. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4' apart).

2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight. 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.

6. Form the $1_2'' imes 1_2''$ wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean $\frac{3}{4}$ x $1\frac{1}{2}$. stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.

. This type of protection must be inspected frequently and the filter cloth and stone replaced when clagged with sediment. 8. Assure that storm flow does not bypass the injet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

U.S. DEPARTMENT OF AGRICULTURE PAGE
SOIL CONSERVATION SERVICE E - 18 - 58

DETAIL 20A - REMOVABLE PUMPING STATION

MOTE: This measure must be loogted

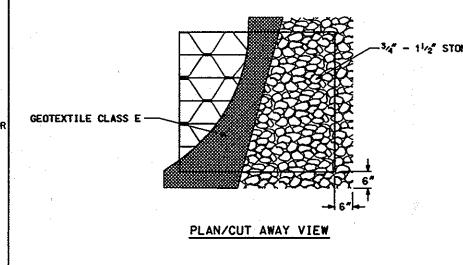
STANDARD SYMBOL

-ANTICIPATED WATER

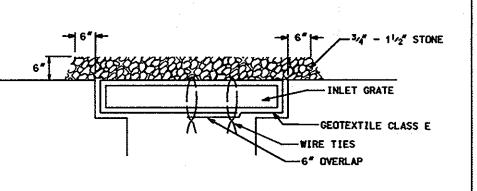
OF CENTER PIPE

SURFACE ELEV.

where it will be readily accessible to allow for its



DETAIL 23B - AT GRADE INLET PROTECTION



MAX. DRAINAGE AREA = 1/4 ACRE

CLEAN GRAVELS

Perforated (removable)

2" - 36" pipe wrapped w/ 1/2 hardware cloth and Geotexti

ITTOM PLATE FOR EACH

PIPE W/ WATERTIGHT

AGIP

STANDARD SYMBOL

Construction Specifications

0000

0000

0000

0000

CROSS SECTION

1. Lift grate and wrap with Geotextile Class E to completely cover all openings. then set grate back in place. 2. Place $\frac{3}{4}$ to $1\frac{1}{2}$ stone, $\frac{4}{-6}$ thick on the grate to secure the fabric and provide additional filtration.

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMEN
SOIL CONSERVATION SERVICE E - 16 - 5A WATER MANAGEMENT ADMINISTRATION

Sediment Control Notes

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855). 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1994 MARYLAND STANDARDS

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED

A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS FOR 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, OF THE "HOWARD COUNTY DESIGN

MANUAL, STORM DRAINAGE". 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION TEMPORARY SEEDING AND MULCHING (SEC G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN

UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 7. SITE ANALYSIS: TOTAL AREA OF SITE: 4.26 ACRES

AREA DISTURBED: 3.99 ACRES

AREA TO BE ROOFED OR PAYED: 2.71 ACRES AREA TO BE VEGETATIVELY STABILIZED: 1.28 ACRES TOTAL CUT: 4000 C.Y. TOTAL FILL: 5000 C.Y. OFFSITE WASTE/BORROW AREA LOCATION: EXCESS CUT SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN. 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 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 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER S

Table 25 - Permanent Seeding for Low Maintenance Areas HARDINESS ZONE 66 RECOMMENDED PLANTING DATES (USE CERTIFIED MATERIA IF AYAILABLE) 5/15 6/1 8/14 7/31 10/1 10/15 11/15 X X X SQ.FC. TALL FESCUE (75%)
CANADA BLUEGRASS (10%)
KENTUCKY BLUEGRASS (10%)
REDTOP (5%) KENTUCK BLUEGRASS (50%) CREEPING RED FESCUE OR A HARD FESCUE (40%) PERENNAL RYEGRÁSS (10%) KENTUCKY BLUEGRASS (5%) RED FESCUE OR CHEWINGS FESCUE (80%) PERENNIAL RYEGRASS (20%) TALL FESCUE (85%) OR PERENNIAL RYEGRASS (50%) PLUS CROWNVETCH OR WEEPING LOVEGRASS (17%) SERECIA LESPEDEZA (83%) TALL FESCUE (83%) WEEPING LOVEGRASS (2%) PLUS SERECIA LESPEDEZA (15%) REDTOP (6%) PLUS BIRDSFOOT TREEFOIL (19%) TALL FESCUE (86%) POATRIVIALIS (7%) TALL FESCUE (80%) HARD FESCUE (100%)

Slope Steepness

Flatter than 50:1

50:1 to 10:1

10:1 to 5:1

5:1 to 3:1

3:1 to 2:1

2:1 and steeper

A. USED BY SHA ON SLOPED AREAS. ADD A LEGUME FOR SLOPES > THAN 3:1. B. USED IN MEDIAN AREAS BY SHA. SHADE TOLERANT.

POPULAR MIX - PRODUCES PERMANENT GROUNDCOYER QUICKLY. BLUEGRASS THICKENS STAND D. BEST USE ON SHADY SLOPES NOT ON POORLY DRAINED CLAYS.

E USE ON LOW MAINTENANCE, STEEP SLOPES, USE TALL FESCUE IN DRAUGHTY CONDITIONS, CROWN VETCH BEST FOR 5b, 6a, 6b G. WEEPING LOVEGRASS MAY BE SEEDED WITH TALL FESCUE IN MID-SUMMER. SERECIA LESPEDEZA IS BEST SUITED FOR ZONES 72 AND 76 H. USE ON POORLY DRAINED SOILS - DITCHES OR WATERWAYS, BIRDSFOOT TREEFOILS BEST FOR ZONES 50, GQ, ABOYE 2,000 FEET.

1. USE IN AREAS OF MOIST SHADE, POA TRIVIALIS THRIYES IN WET SHADY AREAS.

J. TALL FESCUE MAY BE SEEDED ALONE, THE HARD FESCUE PROVIDES BETTER SHADE TOLERANCE AND PRODUCES A BETTER STAND. K. LOW FERTILITY GRASS. REQUIRES INFREQUENT MOWING. GOOD COMPANION FOR WILDFLOWERS

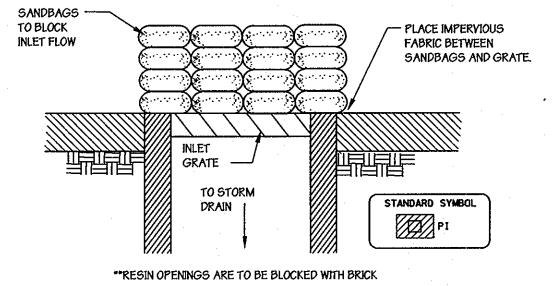
PERMANENT SEEDING RATES

FERTILIZER RATE

175 LB/AC

175 LB/AC 2 TONS/AC

NOTE: FOR SITES HAYING DISTURBED AREAS OVER 5 ACRES THE RATES SHOWN ABOVE FOR PERMANENT SEEDING SHALL BE DELETED AND THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY SHALL BE USED. SOIL TESTING SHALL BE PERFORMED AT THE TIME OF FINE



<u> Table 26 - Temporary Seeding Rates, Depths, and Dates</u> | LBS/1000 | NCHES | 2/1 - 5/1 - 8/15 - 3/1 - 5/1 - 8/15 - 3/15 - 5/3 | SQ. PT. | NCHES | 4/30 | 8/14 | 11/15 | 5/31 | PER ACRE CHOOSE ONE: .5 B.U. (122 bs.) BARLEY 3 B.U. (96 lbs.) 2.5 B.U. (140 lbs.) BARLEY OR RYE PLUS 150 bs. FOXTAIL MILL

INLET PLUGGING DETAIL

TEMPORARY SEEDING RATES FERTILIZER RATE LIME RATE (10-10-10) 600 LB/AC (100LB/1000 S.F.)

24.0 MATERIALS SPECIFICATIONS Table 27 Geotextlle Fabrics

CLASS	APPARENT OPENING SIZE MM. MAX.	GRAB TENSILE STRENGTH LB. MIN.	BURST STRENGTH PSI MIN.
۸	0.30 **	250	500
В	0.60	200	320
С	0.30	200	320
D	0.60	90	145
E	0.30	90	145
F (SILT FENCE)	0.40-0.80*	90	190

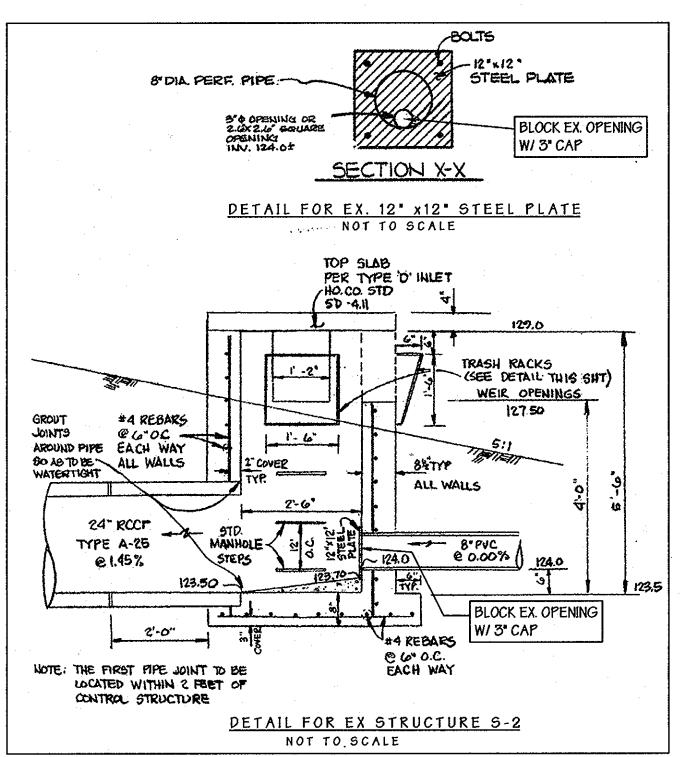
* US Stal Slove CW-02215 ** 0.50 MM. MAX. FOR SUPER SILT FENCE he properties shall be determined in accordance with the following procedures

ASTM D 1682: 4 x 8" specimen, 1x2" clamps, 12" /min. strain rate in both

resistant. It shall be manufactured from fibers consisting of long chain synthetic polymers, and composed of a minimum of 85% by weight of polyolephins, polyosters, or polymides. The geotextile fabric shall resist.

in addition, Classes A through E shall have a 0.01 cm./sec. minimum permeability when tested in accordance with MSMT 507, and an apparent minimum elongation of 20 percent (20%) when tested in accordance with the grab tensile strength requirements listed above. Class F geotextile fabrics for silt fence have a 50 b./m. minimum tensile strength and a 20 b./m. minimum tensile modules when tested in accordance with MSMT 509. The material shall also have a 0.3 gall/ft. /min. flow rate and seventy-five percent (75%) minimum flitering efficiency when tested in accordance

Geotextile fabrics used in the construction of silt fence shall resist deterioration from ultraviolet exposure. The fabric shall contain sufficient amounts of ultraviolet ray inhibitors and stabilizers to provide a minimum of 12 months of expected usable construction life at a temperature range of 0 to 120 degrees F.



Topsoll - Construction and Material Specifications

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 sections in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
 Topsoil Specifications - Soil to be used as topsoil must meet the following:

 Topsoil shall be loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or 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, siag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 in diameter.

Topsoll must be free of plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or other as specified.

Where the subsoll is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 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. III. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soll amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials IV. For sites having disturbed areas over 5 acres:

i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compilance with the following: pH for topsoil shall be between 6.0 and 7.0. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be perscribed to raise the pH to 6.5 or higher.

Organic content of topsoil shall be be not less than 1.5 percent by weight.

Topsoil having soluble salt content greater than 500 parts per million shall not be used.

No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-

Note: Topsoll substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authirity, may be used in lieu of natural topsoil.

II. Place topsoil (if required) and apply soil amendments as specified in 20.0 Yegetative Stabilization - Section I - Yegetative Stabilization Methods and Materials.

Y. Topsoll Application

I. When topsolling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilizations Structures, Earth Dikes, Slope Silt Fence, and Sediment Traps and Basins. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, abelt 4" - 8" higher in elevation.

Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be in such a manner that sodding or seeding can proceed with a

or water pockets.

Y. 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.

YI. Alternative for Permanent Seeding - instead of applying the full amounts of lime and commercial fertilizer, composted sludge and ammendments may be applied as specified below:

i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:

a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of aquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.

Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.

c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.

II. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 b/1,000 square feet, and 1/3 the normal lime application rate.

OWNER/DEVELOPER LAAKE ACQUISITION LLC c/o FESCO EMERGENCY SALES 6401 MACAW COURT **ELKRIDGE MD 21075** (410) 379-5353 x-29 Attn: Doug DeLawter

Troy Hill Corporate Center I, LLC c/o Manekin Corporation 7061 Columbia Gateway Drive Columbia, MD 21046 (410) 290-1488 Attn: Dave Meiners

Harley Davidson of Maryland 6339 Howard Lane ttn: Katina Wehner

ELEVATION (CUT AWAY) Construction Specifications 1. The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wropped with $\frac{1}{2}$ " hardware cloth to prevent backfill material from entering the perforations. 2. After installing the outer pipe, backfill around outer pipe with 2" aggregate 3. The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 12" and 36" in diameter. The perforations shall be $\frac{1}{2}$ " X 6" slits or 1" diameter holes 6" on center. The center pipe shall be wrapped with $\frac{1}{2}$ " hardware cloth first, then wrapped again with Geotextile Class E 4. The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin. MODIFIED Reviewed for the Howard Conservation District and meets technical SDA-NATURAL RESOURCES, CONSERVATION SERVICE This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

ROVED: HOWARD SOIL CONSERVATION DISTRIC APPROVED: Department of Planning and Zoning DEVELOPMENT ENGINEERING DIVISION

DIVISION OF LAND DEVELOPMENT

Sediment Control Details TROY HILL CORPORATE CENTER PARCEL A-29

TROY HILL DRIVE

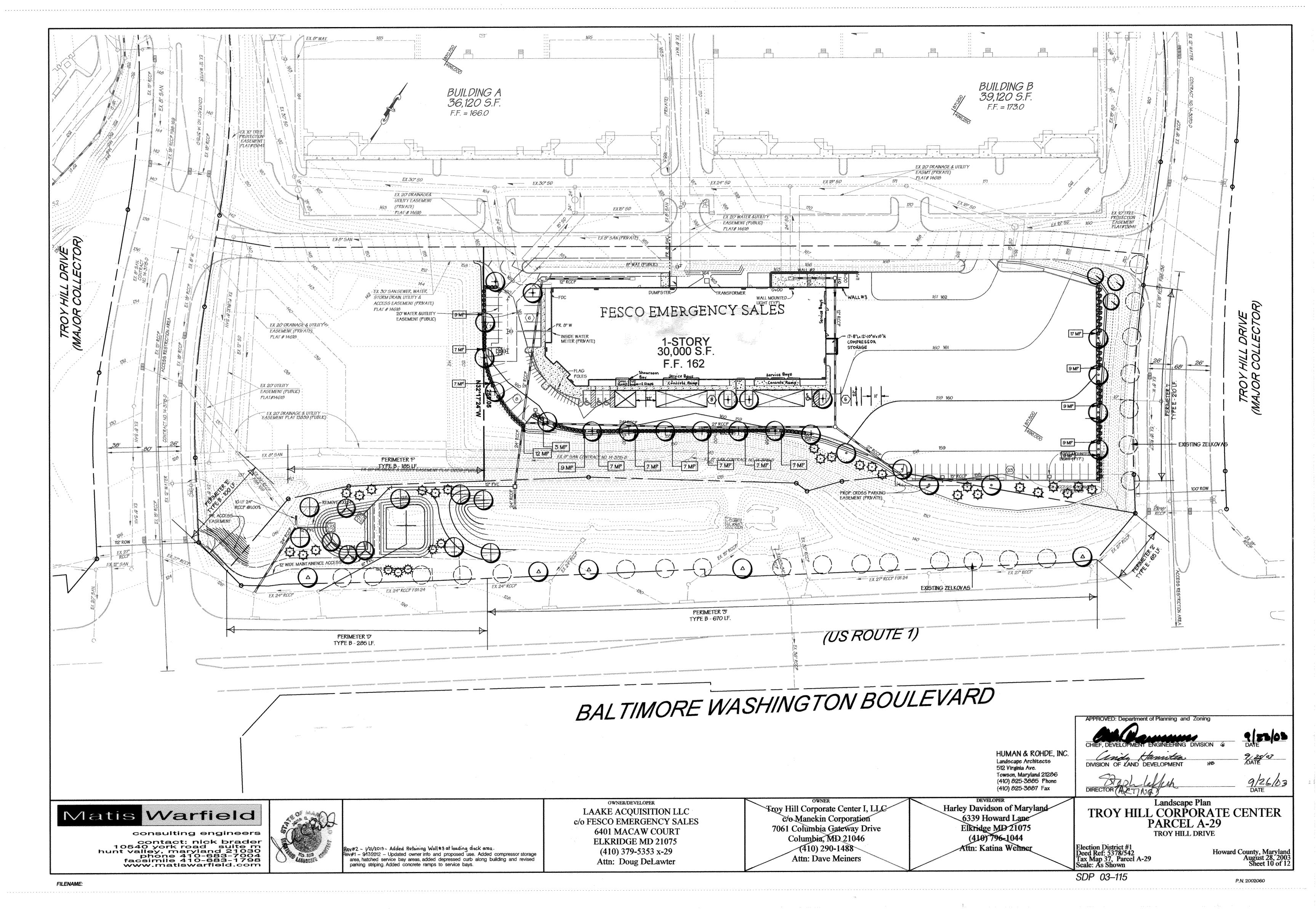
Election District #1 Deed Ref: 5378/542 Tax Map 37, Parcel A-29

contact: nick brader 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com



FILENAME:

P.N. 2002060



SCHEDULE A PERIMETER LANDSCAPE EDGE

Category		Adjacent Roadway	
Perimeter Number	1	2	. 3
Landscape Type	E'	'B'	'B'
Linear Feet of Roadway Frontage/Perimeter	210 LF.	65 LF.	670 LF.
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	NO	NO	NO
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	NO	NO	NO
Number of Plants Required Shade Trees	5	1	13
Evergreen Trees Shrubs	53	2	-17
Number of Plants Provided Shade Trees	4		13 11
Evergreen Trees		2	
Other Trees (2:1 substitution)	5 53		66
Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	2 FLOWERING TREES.	2 EYERGREEN TREES= 1 SHADE TREE	66 SHRUBS = 6 EYERGREEN TREES

Comments: Perimeter edge #2 and #3 are a minimum of 100+' from the parking lot edge. These perimeters were not considered as 'Adjacent' to the public roadway so a type 'B' buffer is provided.

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	68 AUTO - 35 MOTORCYCLE
Number of Trees Required	5
Number of Trees Provided Shade Trees Other Trees (2:1 substitution)	5
Internal Islands Required	5
Internal Islands Provided (Min. 200 Sf.)	5

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING

Linear Feet of Perimeter	570' Type 'B'
Number of Trees Required Shade Trees Evergreen Trees	11 14
Credit for Existing Vegetation (No, Yes and %)	NO
Credit for Other Landscaping (No, Yes and %)	NO
Number of Trees Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution)	11 14

\$10,500

\$17.040

consulting engineers

contact: nick brader 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com

LANDSCAPE SURETY NOTE:

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING

HAS BEEN POSTED AS PART OF THE DEVELOPER'S

AGREEMENT IN THE AMOUNT OF:

(35) SHADE TREES @ \$300 EACH =

\$4,950 (33) EVERGREEN TREES @ \$150 = \$1,590

(53) SHRUBS @ \$30 EACH=

TOTAL:

Matis Warfield

SPECIFICATIONS FOR PLANTING

A. STANDARDS:

- 1. ALL PLANT MATERIAL, CONSTRUCTION METHODS AND MATERIAL PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF "AMERICAN STANDARD FOR NURSERY STOCK," AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., THE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS."
- 2. ALL TREES SHALL BE DELIVERED TO THE SITE BALLED AND BURLAPPED. ALL SHRUBS SHALL BE BALLED AND BURLAPPED OR IN CONTAINERS. ALL GRASSES & PERENNIALS SHALL BE IN CONTAINERS. B. MAINTENANCE:
- 1. AFTER THE PLANTING HAS BEEN APPROVED BY THE LANDSCAPE ARCHITECT AND THE OWNER, THE MAINTENANCE OF WATERING AND WEEDING OF SUCH PLANTS AND PLANTED AREAS SHALL BE PROVIDED BY THE OWNER. SINCE THE PLANTS ARE TO BE GUARANTEED BY THE CONTRACTOR, THE CONTRACTOR SHALL PERIODICALLY CHECK THE MAINTENANCE CONDUCTED BY THE OWNER. IF THE CONTRACTOR IS NOT SATISFIED WITH THE MAINTENANCE OF THE PLANTS, A WRITTEN REPORT. IN TRIPLICATE, STATING APPROPRIATE CHANGES SHALL BE GIVEN IMMEDIATELY TO THE LANDSCAPE ARCHITECT; TWO COPIES WILL BE FORWARDED TO THE OWNER. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
- 2. MAINTAIN TREES UNTIL FINAL ACCEPTANCE, BUT IN NO CASE, LESS THAN 60 DAYS AFTER FINAL ACCEPTANCE OF PLANTING. MAINTAIN ALL PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES TO PROPER GRADES OR YERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP ALL PLANTS FREE OF INSECTS AND DISEASE.

C. WATERING

1. IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATERING SHALL NOT BE DONE DURING THE HEAT OF THE DAY, CONTRACTOR SHALL PROVIDE A SEPARATE LUMP SUM PRICE IN THE OVERALL LANDSCAPE BID FOR WATERING TO ALL NEW PLANTINGS DURING ONE GROWING SEASON

D. EXCAVATION:

1. DEPTH AND WIDTH OF EXCAVATION FOR PLANTING OF ALL PLANTS SHALL BE TO TWICE THE DEPTH AND WIDTH OF ROOT BALL OR CONTAINER OF PLANT TO BE INSTALLED, EXCEPT AS NOTED ON DETAILS.

E. TOPSOIL, PLANTING MIX, AND MULCH:

- 1. ALL TOPSOIL SHALL BE WELL GRADED LOAM OF GOOD UNIFORM QUALITY AND SHALL BE A NATURAL FRIABLE SOIL FREE OF OBJECTS LARGER THAN ONE INCH IN ANY DIMENSION, AND FREE OF TOXIC SUBSTANCES, WEEDS AND ANY MATERIAL OR SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL CONTAIN AT LEAST 1/3 ORGANIC MATTER. IF SUFFICIENT TOPSOIL IS NOT AVAILABLE ON THE SITE TO MEET THE DEPTH AS SPECIFIED HEREIN, THE CONTRACTOR SHALL FURNISH ADDITIONAL TOPSOIL PRIOR TO TOPSOIL DELIVERY, THE CONTRACTOR SHALL OBTAIN THE LANDSCAPE ARCHITECT'S APPROVAL OF THE SOURCE FROM WHICH TOPSOIL IS TO BE FURNISHED
- 2. FOR PLANTING MIX, MIX THOROUGHLY 2/3 EXISTING SOIL AND 1/3 LEAF MOLD OR EQUAL ORGANIC MATTER.
- 3. MULCH MATERIAL SHALL BE OF UNIFORM SIZE, FINE SHREDDED TANBARK HARDWOOD MULCH OR APPROVED EQUAL. MULCH SHALL BE A REDDISH DARK BROWN COLOR AND SHALL BE LAID TO A UNIFORM MINIMUM DEPTH OF 2 INCHES. MULCH AREAS AROUND TREES AT THE RATE OF 1 OF DIAMETER PER OF TRUNK

GENERAL NOTES:

- 1. Contractor is to notify Miss Utility a minimum of 72 hours prior to dlaging. Telephone: 1-800-257-7777
- 2. The Landscape Architect is to be notified 48 hours before planting begins. The location of all plant material is to be approved in the field by the Landscape Architect.
- 3. No tree or shrub planting pits are to be left open or unattended.
- 4. Evergreen trees and shrubs are to be grouped into mulched beds. Beds are to be edged and the grass is to be removed prior to mulching.

F. SUBSTITUTIONS:

- 1. IF A PLANT IS FOUND NOT TO BE SUITABLE OR AVAILABLE, THE LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE BIDDING. THE OWNER OR LANDSCAPE ARCHITECT WILL THEN SELECT A REASONABLE ALTERNATE OR INFORM ALL LANDSCAPE CONTRACTORS OF THE AYAILABILITY OF THE ORIGINAL PLANT.
- G. PRUNING, CLEANUP, PROTECTION OF EXISTING MATERIALS AND RESTORATION:
- 1. THE CONTRACTOR SHALL PRUNE PLANT MATERIAL WITHIN TWO (2) DAYS OF INSTALLATION IN ACCORDANCE WITH THE DETAILS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 2. DURING COURSE OF PLANTING, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED. LAWN AREAS KEPT CLEAR, AND ALL REASONABLE PRECAUTIONS TAKEN TO AVOID DAMAGE TO ANY EXISTING LAWNS, PAVING, ETC, NOT SCHEDULED FOR REMOVAL WHEN PLANTING IN AN AREA HAS BEEN COMPLETED, THE AREA SHALL BE CLEANED UP THOROUGHLY. DEBRIS, RUBBISH, SUBSOIL AND WASTE MATERIALS SHALL BE CLEANED UP AND REMOVED FROM THE PROPERTY. EXISTING GRASS AREAS WHICH HAVE BEEN INJURED BY THE WORK SHALL BE REGRADED AND SODDED TO MATCH THE EXISTING LAWN: THE ENTIRE AREA SHALL BE NEAT AND CLEAN TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
- 3. CONTRACTOR SHALL, AT ALL TIMES, PROTECT ALL PLANTS AND LAWNS FROM DAMAGE. THE MOVING OF HEAVY EQUIPMENT OR MATERIAL OVER THE LAWN AREAS SHALL BE DONE ON PLANKS OR PONTOONS.
- 4. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL PAYEMENTS, SODDED OR PLANTED AREAS, STRUCTURES OR SUBSTRUCTURES, NOT SCHEDULED FOR REMOVAL. WHICH ARE DISTURBED BY THE CONTRACTOR DURING PLANTING OPERATIONS. SUCH RESTORATION SHALL BE IN A MANNER SATISFACTORY TO THE LANDSCAPE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.

H. FINAL INSPECTION AND GUARANTEE:

- 1. AFTER PLANTING IS COMPLETED (INCLUDING MULCHING AND CLEAN-UP) THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING TO REQUEST FINAL INSPECTION OF THE TOTAL PLANTING. THE LANDSCAPE ARCHITECT SHALL MAKE A FINAL INSPECTION VISIT AS SOON AS POSSIBLE. LANDSCAPE ARCHITECT SHALL NOTIFY THE LANDSCAPE CONTRACTOR, IN WRITING, WHEN ALL WORK IS SATISFACTORILY COMPLETE. IF WORK IS NOT SATISFACTORILY COMPLETE, THE LANDSCAPE ARCHITECT WILL NOTIFY THE LANDSCAPE CONTRACTOR, IN WRITING, AS TO THE DEFICIENCIES IN THE WORK AND THE NECESSARY CORRECTIVE MEASURES. THE LANDSCAPE CONTRACTOR WILL BE GIVEN A REASONABLE AMOUNT OF TIME TO CORRECT THE DEFICIENCIES, AND ANOTHER FINAL INSPECTION WILL BE SCHEDULED BY THE LANDSCAPE ARCHITECT.
- GUARANTEED TO BE IN A VIGOROUS GROWING CONDITION ONE YEAR FROM THE DATE OF FINAL INSPECTION AND ACCEPTANCE. AT THE TERMINATION OF THIS PERIOD, THE CONTRACTOR SHALL HAVE COMPLETED THE PRECEDING MAINTENANCE SCHEDULE. ANY PLANTS INFECTED WITH DISEASE OR INSECTS WILL BE REMOVED OR TREATED. ALL DEAD OR UNACCEPTABLE PLANTS WILL BE REPLACED BY THE SAME PLANTS AND SIZES DESIGNATED ON THE PLANT LIST. THESE PLANTS SHALL BE PLANTED, MULCHED AND GUY AS SPECIFIED HEREIN AND WITHOUT EXTRA COMPENSATION TO THE CONTRACTOR. AT THE COMPLETION OF ALL SUCH WORK AND WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT, THE CONTRACT WILL BE CONSIDERED COMPLETE.

BUT RETAIN NATURAL FORM OF TREE -2 PIECES OF REINFORCEI RUBBER HOSE #12 GALVANIZED WIRE -**GUYS TWISTED** 2"X2" OAK STAKES -NOTCH STAKES TO 3" MULCH HOLD WIRE* - 3" SOIL WELL FINISHED GRADE UNDISTURBED SOIL AND TYING FROM TOP OF ROOT BALL AND TRUNK PLANTING MIX

FIRST LATERAL ROOT FLUSH WITH FINISHED GRADE *EYERGREEN & DECIDUOUS "STAKES AND WIRE ARE TO BE REMOVED AT THE COMPLETION OF ONE FULL

GROWING SEASON.

PLANT LIST

QTY.

24

KEY

BOTANICAL NAME

COMMON NAME

QUERCUS PALUSTRIS

PIN OAK

ULMUS PARVIFOLIA 'ALLEE'

ACER RUBRUM 'OCTOBER GLORY'

OCTOBER GLORY RED MAPLE

ZELCOVA SERRATA 'GREEN VASE'

GREEN VASE ZELCOVA

HERITAGE RIVER BIRCH

AMELANCHIER X GRANDIFLORA

AUTUMN BRILLIANCE SERVICEBERRY

BETULA NIGRA 'HERITAGE'

EASTERN WHITE PINE

JAPANESE BLACK PINE

PINUS THUNBERGIANA

MYRICA PENNSYLVANICA

NORTHERN BAYBERRY

PINUS STROBUS

ALLEE CHINESE ELM

SIZE

2 1/2 - 3" CAL.

8 - 10' HT.

8 - 10' HT.

6-8'HT.

6-8'HT.

30 - 36" HT.

B&B

B&B

REMARKS

CLUMP FORM

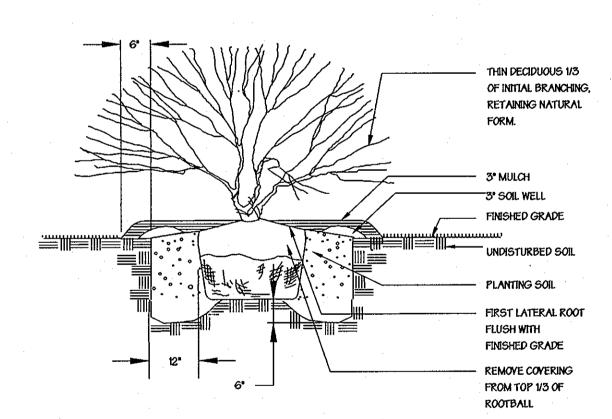
CLUMP FORM

MIN 10' O.C.

MIN 10' O.C.

4' O.C.

PLANTING DETAIL FOR TREES* - 1 - 4" CALIPER NOT TO SCALE



PLANTING DETAIL FOR EVERGREEN AND DECIDUOUS SHRUBS NOT TO SCALE

THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLLS. 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.

DEVELOPER'S / BUILDER'S CERTIFICATE

I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion, a Certification of Landscape installation, accompanied by an executed one year guarantee of plant materials, will be submitted to

the Department of Planning and Zoning.

HUMAN & ROHDE, INC. Landscape Architects 512 Virginia Ave. Towson, Maryland 21286 (410) 825-3885 Phone (410) 825-3887 Fax

PPROVED: Department of Planning and Zoning

Landscape Plan TROY HILL CORPORATE CENTER PARCEL A-29 TROY HILL DRIVE

Tax Map 37. Parcel A-29

Rev#1 - 9/17/2012 - Updated owner info.

OWNER/DEVELOPER LAAKE ACQUISITION LLC c/o FESCO EMERGENCY SALES 6401 MACAW COURT ELKRIDGE MD 21075 -(410) 379-5353 x-29

Attn: Doug DeLawter

Groy Hill Corporate Center I, LLC c/o Manekin Corporation 7061 Columbia Gateway Drive Columbia, MD 21046 (410) 290-1488

Attn: Dave Meiners

Harley Davidson of Maryland 6339 Howard Lane ttn: Katina Wehne

FILENAME:

