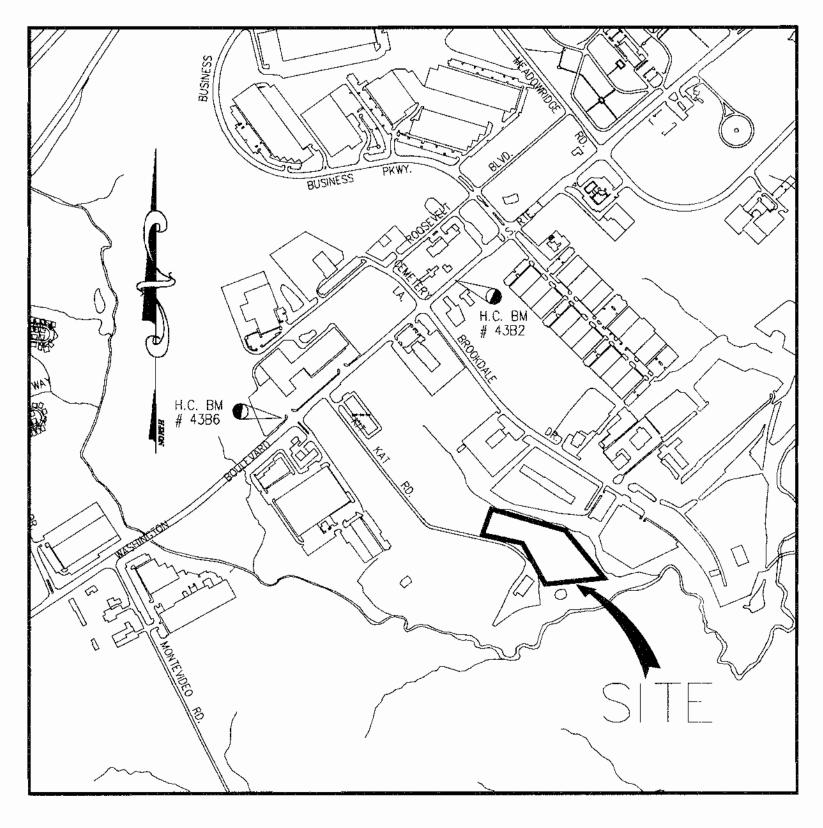
SHEET INDEX						
NO.	DESCRIPTION					
1	COVER SHEET					
2	SITE DEVELOPMENT PLAN					
3	SEDIMENT CONTROL PLAN					
4	SEDIMENT CONTROL NOTES AND DETAILS					
5	DRAINAGE AREA MAP AND DETAILS					
6	LANDSCAPE PLAN AND DETAILS					
7	RETAINING WALL E					
8	RETAINING WALL F					
9	RETAINING WALL DETAILS					
10	PROFILES					

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS M.S.H.A. STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE LOCATIONS OF THE UTILITIES SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE, PHOENIX ENGINEERING, INC. AT (410) 247-8833 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIP OF FINISHED GRADES TO EXISTING GRADES, PRIOR TO BEGINNING ANY WORK
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- 5. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM
- 6. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS: BALTIMORE GAS & ELECTRIC COMPANY..... ...(410) 725-9976 VERIZON TELEPHONE AT&T CABLE LOCATION DIVISION.. ...(410) 393-3553 HOWARD COUNTY BUREAU OF ...(410) 313-4900 UTILITIES..... HOWARD COUNTY CONSTRUCTION / INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO ..(410) 313-1880 COMMENCEMENT OF WORK)....
- 7. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 8. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN
- 9. NO PIPE SHALL BE LAID UNTIL LINE OF EXCAVATION HAS BEEN BROUGHT TO
- ALL SPOT ELEVATIONS SHOWN ARE TOP OF PROPOSED PAVING OR CONCRETE. WHEN ADJACENT TO CURB. ELEVATION SHOWN IS BOTTOM OF CURB FLOWLINE.
- 11. STORM WATER QUANTITY AND QUALITY MANAGEMEN! WAS PROVIDED ON SITE UNDER SDP 04-024
- 12. HANDICAP RAMPS SHALL MEET ADA REQUIREMENTS.
- 13. THE CONTRACTOR SHALL OBTAIN THE NECESSARY BUILDING PERMITS FOR CONSTRUCTION.
- 14. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH 2' CONTOUR INTERVALS PREPARED BY GUTSCHICK, LITTLE AND WEBER P.A., AND A FIELD RUN UPDATE SURVEY BY ERIK MARKS INC. IN NOVEMBER, 2003. GRADING SHOWN ON PARCEL B IS TAKEN FROM PROPOSED GRADES AS SHOWN ON SDP 04-024.
- 15. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE GRID COORDINATES, (NAD 83). ALL VERTICAL CONTROLS ARE BASED ON NGVD29 DATUM.
- 16. CONTRACTOR SHALL USE DIMENSIONS SHOWN, SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE CIVIL ENGINEER.
- 17. ANY DAMAGE TO COUNTY RIGHT-OF- WAY AND PAVING OF PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND STANDARDS.
- 18. THERE ARE NO KNOWN CEMETERIES LOCATED ON THIS SITE.
- 19. 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 TO THE PLACEMENT OF ANY ASPHALT.
- 20 ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED
- 21. 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. 43B2 AND 43B6 WERE USED FOR THIS PROJECT.
- WATER AND SEWER ARE (PUBLIC) AND ARE IN THE LITTLE PATUXENT DRAINAGE AREA, AND ARE DESIGNATED AS CONTRACT NUMBER 14-3306-D., 579-S, AND CAPITAL PROJECT W-8148.
- 23. THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY GUTSCHICK LITTLE AND WEBER P.A. IN AUGUST, 1993 AND WAS APPROVED BY HOWARD COUNTY, SEE PLAT NO. 11226
- 24. THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY EXPLORATION RESEARCH INC. DATED OCTOBER, 1993
- 25. A TRAFFIC STUDY FOR THIS PROJECT WAS APPROVED ON MARCH 1, 2004.
- 26. THIS PROPERTY IS ZONED M-2 PER THE 1993 COMPREHENSIVE ZONING PLAN.
- 27. NO CLEARING GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS(S) OR THEIR REQUIRED BUFFERS AND FOREST CONSERVATION EASEMENT.
- 28. THIS PLAN IS SUBJECT TO WP-02-18, ALSO SEE SDP 94-18 AND SDP 04-024
- 29. FOREST CONSERVATION REQUIREMENTS FOR THIS SITE WERE ADDRESSED UNDER SDP 04-024.
- 30 A FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS A PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$6,000. THE SURETY IS BASED ON 12 SHADE TREES AT \$300 PER TREE, 1 EVERGREEN TREE AT \$150 PER TREE, AND 75 SHRUBS AT \$75 PER SHRUB.

KIT KAT CENTER

1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND



SCALE: 1" = 1000'

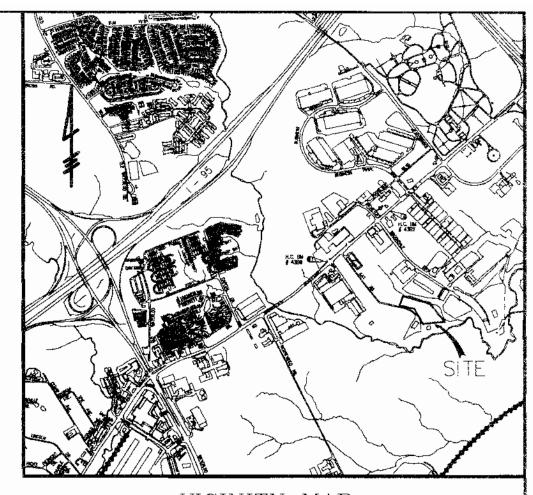
ZONING HISTORY: WP-02-18, WHICH ASKED FOR A WAIVER TO THE SITE DEVELOPMENT PLAN PROCESS, WAS DENIED ON OCTOBER 1, 2001.

BM #43B2 ELEV. 209.601 X-CUT IN BRASS DISC IN MEDIAN ISLAND OF US ROUTE #1 46.52' NORTHEAST OF C&P POLE # 100

NORTHING 551654.993 EASTING 1378176.951

BM #43B6 ELEV. 210.559 BRASS DISC IN MEDIAN ISLAND OF US ROUTE#1 86.8' EASTERLY OF BG&E POLE #131860

NORTHING 550601.597 EASTING 1376866.072



VICINITY MAP SCALE: 1" = 2000

EARTH QUANTITIES

CIVIL ENGINEER DOES NOT GUARANTEE OR WARRANT THIS INFORMATION, CONTRACTOR

DOA COMMENTER

3/3/05

3/4/5

Revision Description

D. ERIC SELINE

14852 OLD GUNPOWDER ROAD

LAUREL, MARYLAND 20707

410-792-2999

IS RESPONSIBLE FOR SOIL QUANTITY CALCULATIONS.

482 C.Y.

8482 C.Y.

TOTAL CUT

TOTAL FILL

SITE ANALYSIS

- 1. TOTAL AREA OF SITE = 11,748 AC. OR 511,743 SQ. FT. TOTAL AREA OF THIS SUBMISSION = 2.75AC. OR 119,800 SQ. FT.
- 3. EXISTING USE- BUILDING A = CONTRACTOR STORAGE & OFFICE BUILDING B = OFFICE AND RECYCLING FACILITY PROPOSED USE -- BUILDINGS C. D. & E = INDUSTRIAL - WAREHOUSE
- 4. THE SOILS TYPES SHOWN ON THESE PLANS ARE AS SHOWN IN THE "HOWARD COUNTY SOILS SURVEY." THE SITE IS PREDOMINATELY TYPE B AND C SOILS WITHIN THE DEVELOPED AREA
- 5. THERE ARE EXISTING FLOODPLAINS AND WETLANDS ON THIS SITE AND ARE SHOWN ON THE DRAWINGS. NO WETLANDS OR FLOODPLAINS ARE BEING DISTURBED BY THIS DEVELOPMENT.
- 6. EXISTING VEGETATION ON SITE IS IN THE FORM OF LAWN OR WOODLAND.
- 7. OPEN SPACE (GREEN AREA) TO REMAIN ON SITE = 321,735 SQ. F1. OR 64.7%
- 8. BUILDING COVERAGE OF SITE: BLDG A 1,315 SF (EXISTING)

BLDG B 47,800 SF (SDP 04-024) BLDG C 3,132 SF (WAREHOUSE) BLDG D 3,132 SF (WAREHOUSE) BLDG E 6,372 SF (WAREHOUSE)

TOTAL 61,751 SF OR <12.1 % OF SITE

TOTAL AREA TO BE DISTURBED = 2.08 ACRES OR 90,605 SQ. FT.

PARKING TABULATIONS

A. BUILDING AREA

EXISTING BUILDING A:

TOTAL HANDICAP SPACES PROVIDED

OFFICE-1,315 SQ. FT. @ 3.3 SPACES/1,000 SQ. FT. = 5 SPACES REQUIRED

PROPOSED BUILDING B: (SDP 04-024) WAREHOUSE-OVER 160' DEEP, 47,800 SQ. FT.

@ 0.5 SPACES/1,000 SQ. FT.

OFFICE-6,000 SQ. FT. @ 3.3 SPACES/1,000 SQ. FT. = 20 SPACES REQUIRED

PROP. BLDG. C

WAREHOUSE- 3,132 SQ.FT @ 2.5 SPACES/1000 SQ.FT = 8 SPACES REQUIRED

PROP. BLDG. D WAREHOUSE - 3,132 SQ.FT @ 2.5 SPACES/1000 SQ.FT = 8 SPACES REQUIRED

WAREHOUSE- 6,372 SQ.FT @ 2.5 SPACES/1000 SQ.FT == 16 SPACES REQUIRED

TOTAL NUMBER OF PARKING SPACES REQUIRED = 81 SPACES REQUIRED

(SDP 04-024) PHASE I = 50 SPACES PROVIDED

B. TOTAL NUMBER OF PARKING SPACES PROVIDED(INCL. PHASE 1)= 93 SPACES PROVIDED

C. TOTAL HANDICAP SPACES REQUIRED = 4 SPACES FEGULAR HANDICAP SPACES PROVIDED E'X18' TYPICAL (WITH 5' AISLE) = 1 SPACE VAN ACCESSIBLE HANDICAP SPACES PROVIDED &'X20' TYPICAL (WITH 8' AISLE) <u>= 6 SPACES</u>

ADDRESS CHART

STREET ADDRESS

7151 KIT KAT ROAD (BLDG. C) (PARCEL A) 7155 KIT KAT ROAD (BLDG. E) (PARCEL A)

7159 KIT KAT ROAD (BLDG. D) (PARCEL A) 7167 KIT KAT ROAD (BLDG. A) (PARCEL A)

PERMIT INFORMATION CHART

PARCEL A 7167 KIT KAT ROAD ELLICOTT CITY, MD. Tax Map No. 43, Grid 11, Elec. Dist. No. 1, Parcel 49

OWNER/DEVELOPER:

PREPARED BY and the same PHOENIX ENGINEERING, INC. CONSULTING ENGINEERS

1420-A JOH AVENUE HALTIMORE, MARYLAND 21227 (410) 247-8833 FAX 247-9397

HOWARD COUNTY, MARYLAND

P/O PARCEL: 49 TAX MAP: 43 CENSUS TRACT: 6011.01 1 ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND DEED: L 5368, F 154 PLAT: 11226

SEE SOP 04-024 SEE WP-02-18 PREVIOUSLY SDP# 94-18

Scale AS SHOWN Proj No 03-006 DRAWING NO TIOTKITKATOW Orn By S.E.W. Date APRIL 2004 Chk-By J.R.H. SDP 04-039

SDP 04-039

LEGEND

----188----- EX. CONTOUR PROP. CONTOUR

SPOT ELEVATION

PROP. STORM DRAIN

PROPERTY LINE

F 04-81 1-1218-17219 WATER CODE

LOT No.

KIT KAT CENTER- PARCEL A

BLOCK ZONE TAX/ZONE ELEC. DIST. CENSUS T 11 M-2 MAP 43 1 ST 6011.01 SEWER CODE

N/A

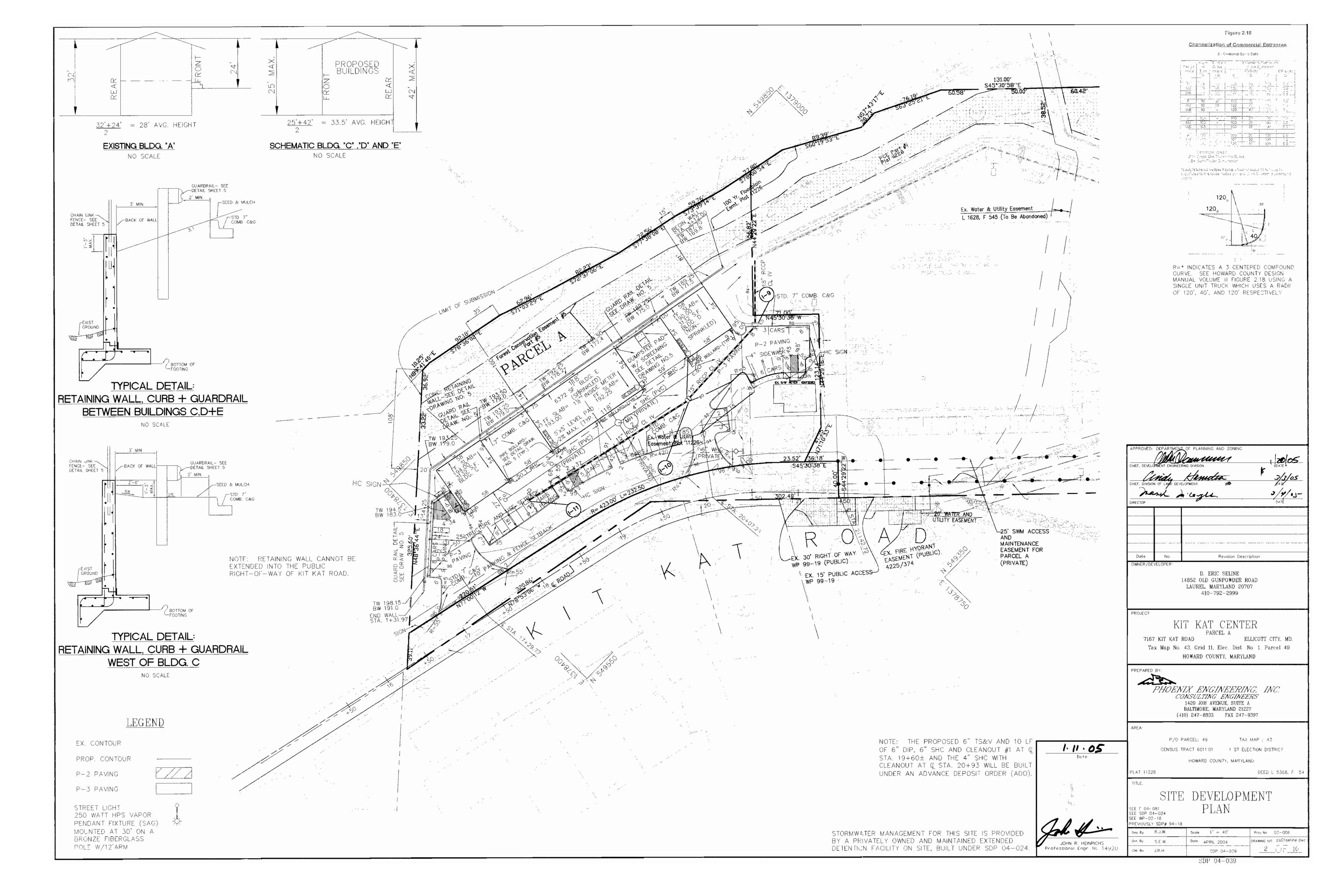
P/O 49

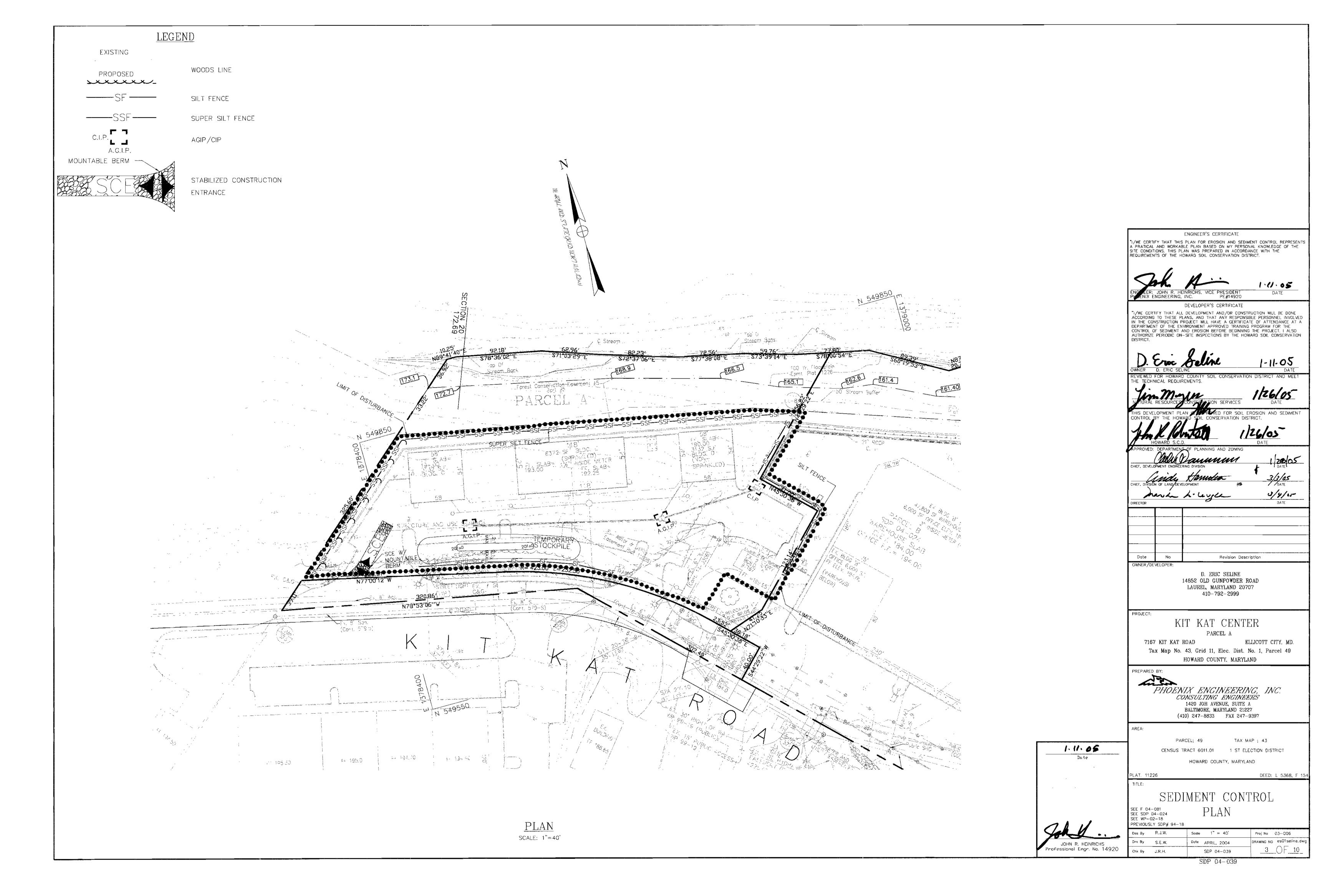
JOHN R. HEINRICHS Professional Engr. No. 14920

1.11.05

= 24 SPACES REQUIRED

= 7 SPACES







- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855)
- 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 AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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.
- 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.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS OD, 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.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS: AREA TO BE ROOFED OR PAVED....... 0.82 ACRES ..8482 CU. YDS.
- OFFSITE WASTE/BORROW AREA LOCATION TO BE DETERMINED 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE
- 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL

SAME DAY OF DISTURBANCE.

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.
- 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 IS SHORTER.

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, DISKING 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 SQUARE FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SO FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT 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 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 (1.4 LBS/1000 SO 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 (.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 OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE 50D. 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 UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SO FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR

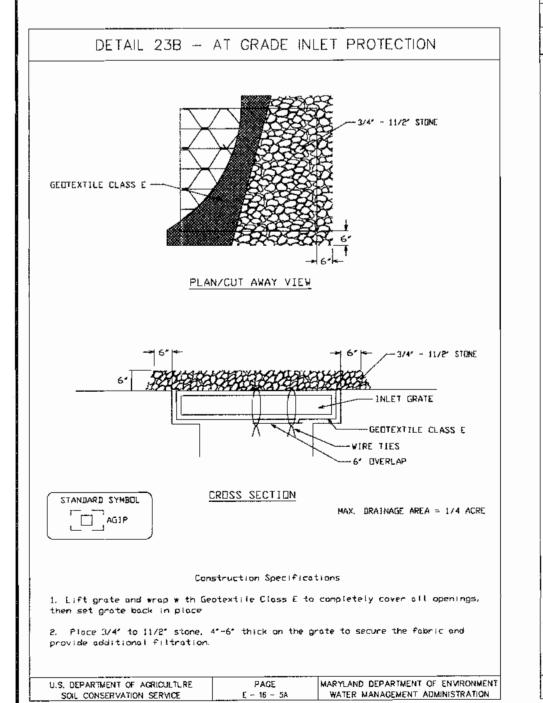
MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

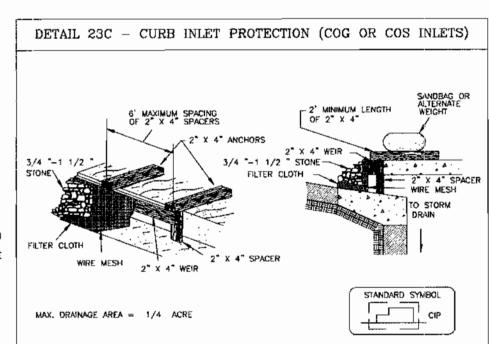
TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING 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 1/2 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 (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 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 SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL FER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL 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.





Construction Specifications 1. Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4') to the 2" x 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 mesh over the wire mesh and securely attach it to the 2" x 4" weir. 3 Securely noil the 2" X 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4' apart)

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

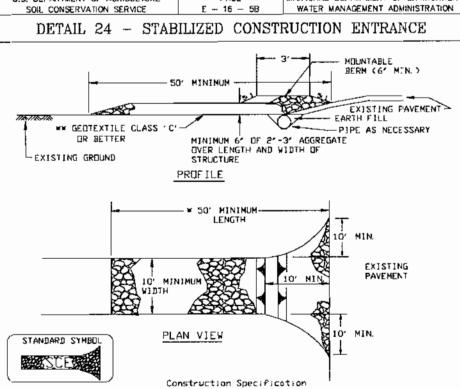
6. Form the 1/2 " x 1/2 " wire mesh and the geatextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4 " x 1 1/2 "

PAGE MARYLAND DEPARTMENT OF ENVIRONMENT

7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clagged with sediment. 3. Assure that storm flow does not bypass the inlet by installing a temporary

earth or asphalt dike to direct the flow to the inlet.

U.S. DEPARTMENT OF AGRICULTURE



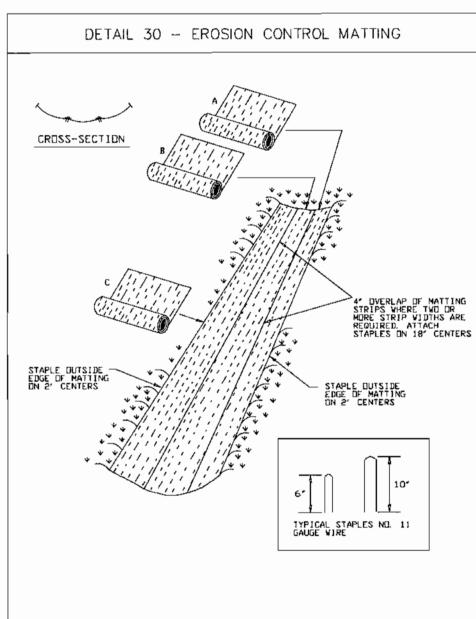
Length - minimum of 50' (#39' for single residence lot). 2 Width - 10' minimum, should be flared at the existing road to provide a turning

} 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

5. Surface Vater - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a nountable berm with 5:1 slapes 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 MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE

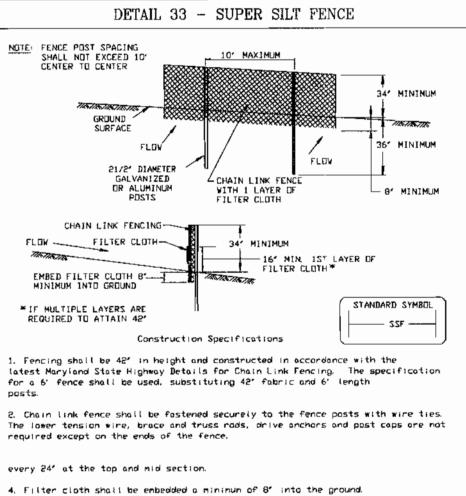


MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE EROSION CONTROL MATTING

Construction Specifications

- 1. Key-in the matting by placing the top ends of the matting in a narrow trench. 6' in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4' down slope from the trench. Spacing between staples is 6'. 2. Staple the 4" overlap in the channel center using an 18' spacing
- 3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- 4. Stoples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center. 5. Where one roll of matting ends and another begins, the end of
- secured with 2 double rows of staples.

the top strip shall overlap the upper end of the lower strip by 4', shiplap fashion. Reinforce the overlap with a double row of staples spaced 6' apart in a staggered pattern on either side. 6. The discharge end of the natting liner should be similarly Note: If flow will enter from the edge of the matting them the area MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE SOIL CONSERVATION SERVICE



required except on the ends of the fence. every 24' at the top and mid section.

U.S. DEPARTMENT OF AGRICULTURE

5. When two sections of filter cloth adjoin each other, they shall be overlapped

6. Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for

Editextite ordas tr						
Tensile Strength	50 lbs/in (min.)		Test	TMZM	509	
Tensile Modulus	20 lbs/in (min.)		Test:	TM2M	509	
Flow Rate	0.3 gal/ft*/minute (max.)	Test	TMZM	355	
Filtering Efficiency	75% (min.)		ĭest:	THZM	355	
U.S. DEPARTMENT OF AGRICULTURE	PAGE	MARYLAN	DEPA	RTMENT	OF	ENVIRONMEN
SOIL CONSERVATION SERVICE	H - 26 - 3	WATER	MANAG	EMENT	ADM	INISTRATION
SU	JPER SILT FEN	1CF				

Besign Criteria

Slope	Steepness	Stope Length (maximum)	Silt Fence Length (maximum)		
0 - 10%	0 - 10 1	Unlimited	Unlimited		
10 - 20%	10:1 - 5:1	200 feet	1,500 feet		
50 - 33%	5: 1 - 3: 1	100 feet	1,000 feet		
33 - 50%	3: 1 - 2: 1	100 feet	500 feet		
50% +	2:1 +	50 feet	250 feet		

H - 26 - 3A WATER MANAGEMENT ADMINISTRATION

- 36' MINIMUM LENGTH FENCE POST 3' MAXIMUM CENTER TO DRIVEN A MINIMUM OF 16' INTO -- 16' MINIMUM HEIGHT OF - 8' MINIMUM DEPTH IN MINIMUM FENCE PERSPECTIVE VIEW POST LENGTH — FENCE POST SECTION MINIMUM 20' ABOVE GROUND TIME TO THE TIME TO THE TIME TO THE TREATMENT THE TIETA EMBED GEDTEXTILE CLASS F -FENCE POST DRIVEN A TOP VIEW A MINIMUM OF B" VERTICALLY INTO THE GROUND POSTS T / __T_ THE GROUND STANDARD SYMBOL _____SF _____ JUINING TWO ADJACENT_SILT FENCE SECTIONS Construction Specifications . Fence posts shall be a minimum of 36° long driven 16° minimum into the ground. Wood post: shall be 11/2' x 11/2' square (minimum) cut, or 13/4' diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot. 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F: Test MSMT 509 Tensile Strength 50 lbs/in (min,) Test MSMT 509 Tensile Modulus 20 lbs/in (min.) 0. 3 gal ft / minute (max.) Test: MSMT 322 Filtering Efficiency 75% (min.) Test: MSMT 322 3. Where ends of peotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass 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. MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE PAGE SOIL CONSERVATION SERVICE SILT FENCE Silt Fence Design Criteria (Maximum) (Maximum) Silt Fence Length Siope Length 21obe 2tee suesz

unlimited

125 feet

100 feet

60 feet

40 Feet

Note: In areas of less than 2% slope and sandy spils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be

unlimited. In these areas a silt fence may be the only perimeter control

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

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

unlimited

750 feet

500 feet

250 feet

125 feet

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

1,000 feet

DETAIL 22 - SILT FENCE

DENIX ENGINEERING, INC. Date OWNER/DEVELOPER PROJECT: 7167 KIT KAT ROAD

ENGINEER'S CERTIFICATE 1/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRATICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE ITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE EQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. 1.11.05 JOHN R. HEINRICHS, VICE PRESIDEN DEVELOPER'S CERTIFICATE "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION E TECHNICAL REQUIREMENTS. 120/05 URAL RESOURCES CONSIDER ON SERVICES THIS DEVELOPMENT PLAN WAR ROVED FOR SOIL EROSION AND SEDIMENT CONTROL. BY THE HOWARD SOIL CONSERVATION DISTRICT. PROVED: DEPARTMENT OF PLANNING AND ZONING Olde Oxumum 1 ZE OS HIEF. DEVELOPMENT ENGINEERING DIVISION march & lengther 05/4/05 Revision Description D. ERIC SELINE 14852 OLD GUNPOWDER ROAD LAUREL MARYLAND 20707 410-792-2999 KIT KAT CENTER PARCEL A ELLICOTT CITY, MD. Tax Map No. 43, Grid 11, Elec. Dist. No. 1, Parcel 49 HOWARD COUNTY, MARYLAND

SEQUENCE OF CONSTRUCTION

(1 DAY)

(3 DAYS)

(51 DAYS) DAY 9-60

OBTAIN A GRADING PERMIT- VERIFY THAT EX. SWMF

CLEAR AND GRUB AREA FOR, AND INSTALL REMAINING

CONNECTIONS, STORM DRAINS, ETC. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY AFTER

AREAS IN ACCORDANCE WITH PERMANENT SEEDING

AND UPON APPROVAL OF THE SEDIMENT CONTROL

INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL

DEVICES AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.

SEDIMENT CONTROL DEVICES, AND GET PERMISSION FROM SEDIMENT CONTROL INSPECTOR BEFORE PROCEEDING.

CONSTRUCT RETAINING WALL WHILE BEING CAREFUL TO NOT

DISTURB THE 'J' CONFIGURATION OF THE SUPER SILT FENCE.

ANY DAMAGE TO SEDIMENT CONTROL MEASURES IS TO BE

BEFORE PROCEEDING TO NEXT STEP.

DAY 2-3 CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE

REPAIRED IMMEDIATELY.

TEMPORARY SEEDING NOTES.

DAY 175-180 STABILIZE ALL DISTURBED AREAS IN ACCORDANCE

DAY 181-184 FINE GRADE SITE AND SEED DISTURBED

(5 DAYS) DAY 185-190 WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED

WITH PERMANENT SEEDING NOTES.

(15 DAYS) DAY 61-76 ROUGH GRADE SITE AND STABILIZE AS PER

(60 DAYS) DAY 98-185 CONSTRUCT BUILDINGS.

(20 DAYS) DAY 77-97 INSTALL ALL UTILITIES, IE., WATER AND SEWER

(15 DAYS) DAY 159-174 CONSTRUCT CURBS, PAVING AND SIDEWALKS

WITH A MOUNTABLE BERM (SCE).

SEDIMENT BASIN BUILT UNDER SDP 04-024 IS OPERATIONAL

PLAT: 11226

1.11.05

JOHN R. HEINRICHS

Professional Engr. No. 14920

DEED: L 5368, F SEDIMENT CONTROL

CENSUS TRACT 6011.01 1 ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

PHOENIX ENGINEERING, INC.

CONSULTING ENGINEERS

1420-A JOH AVENUE

BALTIMORE, MARYLAND 21227

(410) 247-8833 FAX 247-9397

TAX MAP ; 43

SEE F 04-081 SEE SDP 04-024 SEE WP-02-18 PREVIOUSLY SDP# 94-18

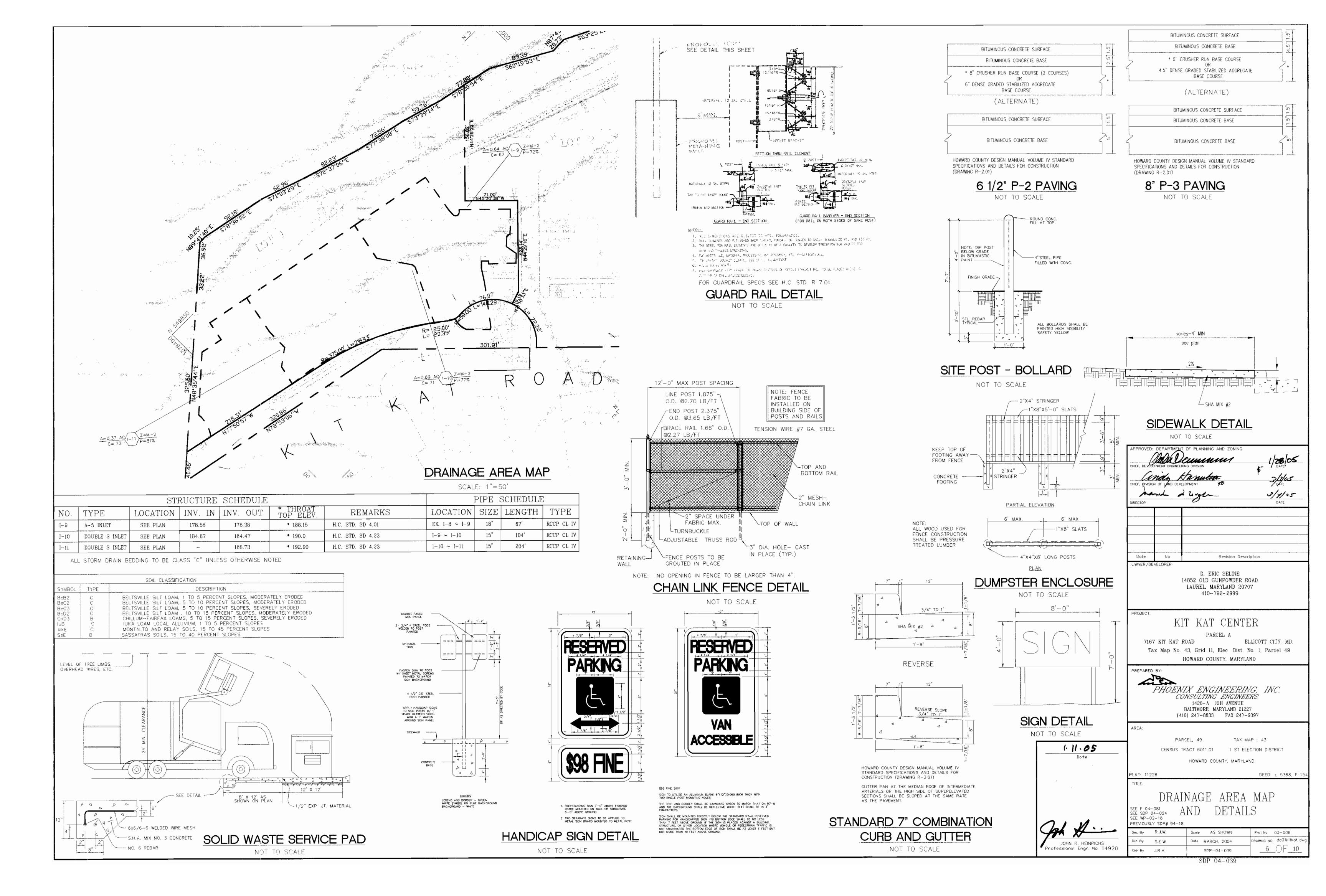
PARCEL; 49

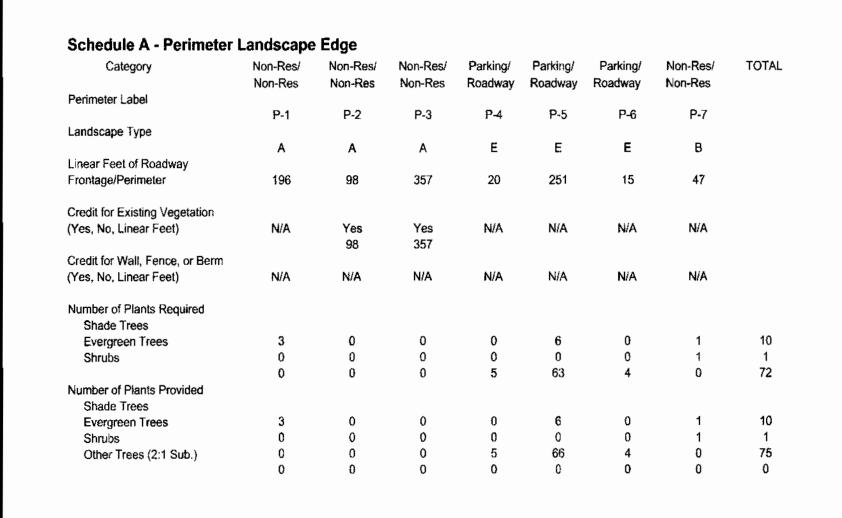
PREPARED BY

and the same

Proj No 03-006 Scale AS SHOWN DRAWING NO DEOTKITKA Date APRIL, 2004 SDP-04-039

SDP 04-039





Schedule B - Parking Lot Internal Landscaping

Number of Parking Spaces Number of Trees Required

Number of Trees Provided Shade Trees Other Trees (2:1 Sub.)

Plant List

Quan.	Key	Botanical Name	Common Name	Size	Remarks				
Trees									
1	LP	Platanus x acerifolia 'Bloodgood'	Bloodgood Londonplane Tree	2 1/2-3" cal.	B&B or cont.				
5	MS	Fraxinus pennsylvantica 'Marshall's Seedless'	Marshall's Seedless Ash	2 1/2-3" cal.	B&B or cont.				
1	NS	llex x 'Nellie R. Stevens'	Nellie Stevens Holly	6-8' ht.	B&B or cont.				
6	RM	Acer rubrum 'October Glory'	Red Maple	2 1/2-3" cal.	B&B or cont.				
Shrubs									
75	BB	Euonymus alatus 'Compacta'	Dwarf Winged Euonymus	24-30" ht.	B&B or cont.				



- 3° Saucer

TIMOTHY PRIGG+ASSOCIATES

410/368-4850 fax: 410/368-4859

208 Mallow Hill Road - Baltimore, Maryland 21229

1/8 Depth of

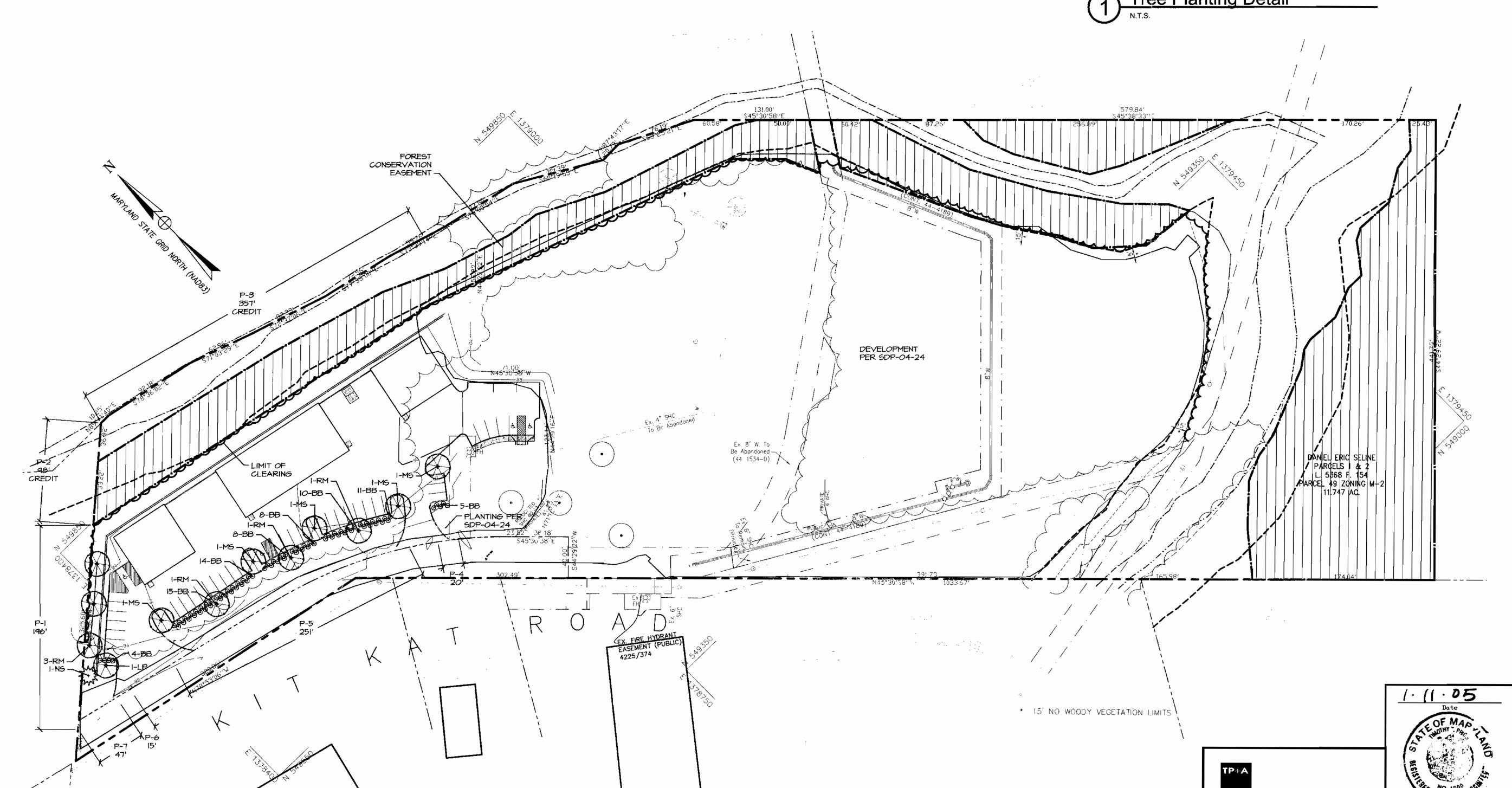
Remove burliap and

rope from top --1/2 of root ball

3" Shredded

_ Existing grade

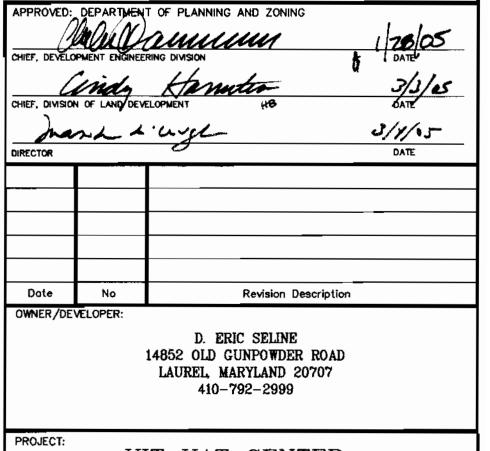
- 1. Contractor shall be responsible for making himself familiar with all existing on-site conditions prior to submission of bid. The contractor is responsible for the location of all underground utilities, pipes, and structures. Contractor shall take sole responsibility for any cost incurred due to damage of said utilities. Call Miss Utility, 48 hours, prior to digging. (1-800-257-7777)
- 2. Size and standards of plant materials shall conform to latest edition of "USA Standards For Nursery Stock", by the American Association of Nurserymen, Inc. (AAN).
- 3. All planting procedures and specifications shall conform to "Landscape Guidelines for Baltimore-Washington Metropolitan Area" latest edition.
- 4. Contractor shall guarantee all plant material for one (1) year from planting approval/acceptance.
- 5. Contractor shall confirm quantity of plant materials by plan count.
- 6. Plant pit backfill shall be a uniform mixture of one (1) part topsoil, two (2) parts existing soil and one (1) part Leafgrow® or approved alternative organic compost. All mulch to be shredded hardwood mulch.
- 8. All plants shall be thoroughly watered by the contractor immediately following installation.
- 9. Contractor to adjust plant locations in field as necessary.
- 10. All plants shall be placed as not to obstruct drainage. No plant substitutes without prior approval.
- 12. Where field conditions exist which would adversely affect plant performance, or interfere with proper planting procedures, the contractor shall notify the Engineer prior to installation of plant material.
- 13. All areas not otherwise indicted are to be seeded or sodded as per plan project specifications and in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- 14. A financial surety for the required landscaping has been posted as a part of the DPW Developers Agreement in the amount of \$6,000. This surety is based on 12 shade trees at \$300 per tree, 1 evergreen tree at \$150 per tree, and 75 shrubs at \$30 per shrub.
- 15. The owner, tenant, and their respective agents, if any, shall jointly and severally be responsible for the maintenance of the required landscaping. All required plantings shall be maintained in good growing condition and, whenever necessary, replaced with new plant materials to ensure continued compliance with applicable regulations.



--- EXISTING EASEMENT EXISTING CONTOURS (2') EXISTING TREELINE ----- EXISTING STREAM TOP OF BANK ---- 50' STREAM BUFFER TOREST CONSERVATION EASEMENT PROPOSED SHADE TREE PROPOSED EVERGREEN TREE PROPOSED SHRUB

LEGEND

---- PROPERTY LINE



KIT KAT CENTER

7167 KIT KAT ROAD ELLICOTT CITY, MD. Tax Map No. 43, Grid 11, Elec. Dist. No. 1, Parcel 49 HOWARD COUNTY, MARYLAND

PREPARED BY: PHOENIX ENGINEERING, INC.

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(410) 247-8833 FAX 247-9397

P/O PARCEL; 49

TAX MAP; 43 CENSUS TRACT 6011.01 1 ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

DEED L 5368, F 154

LANDSCAPE PLAN

SEE F 04-081 SEE SDP 04-024 SEE WP-02-18 PREVIOUSLY SDP# 94-18 Scale 1" = 50Proj No 02-033 Date JUNE 2004 SDP 04-039

SDP 04-039

