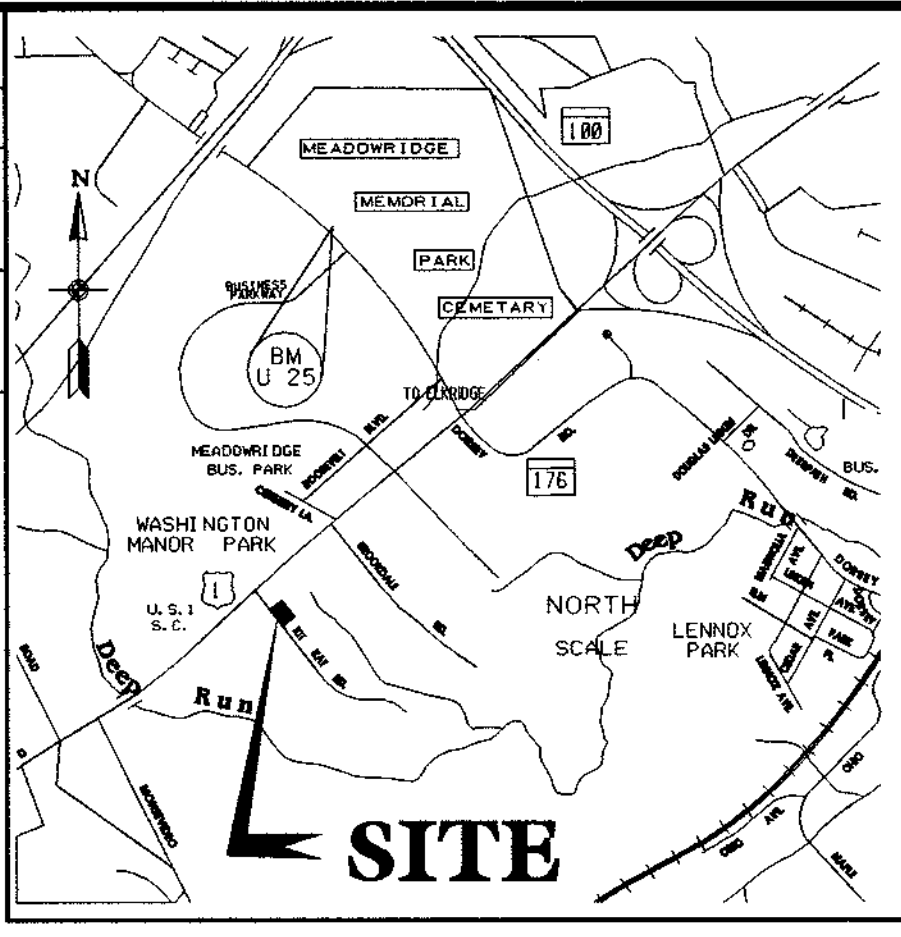


PLAN
SCALE 1"=20'

GPS SURVEY CONTROL POINTS			
NO.	NORTHING	EASTING	ELEV.
GORP GPS N	568,014.98	1,365,020.35	514.664
U 25	554,701.88	1,377,647.62	215.393



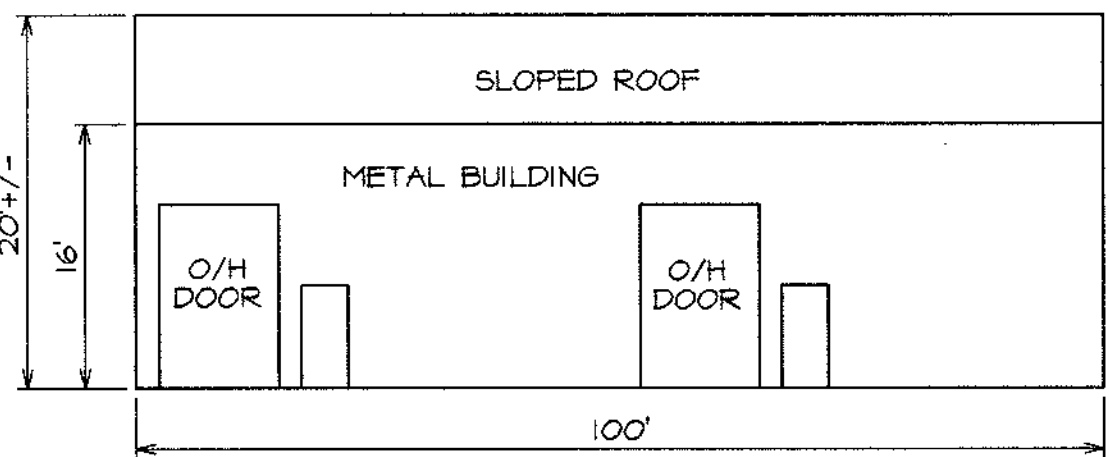
VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES:

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME 1A, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGES INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 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.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 - MISS UTILITY: 800-257-7777
 - CFP TELEPHONE: 410-788-0976
 - HOWARD COUNTY BUREAU OF UTILITIES: 410-592-2366
 - AT&T CABLE LOCATION DIVISION: 410-398-3553
 - BALTIMORE GAS & ELECTRIC CO.: 410-685-0123
 - STATE HIGHWAY ADMINISTRATION: 410-531-5533
 - HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK): 410-313-1860
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TRASH PICKUP IS PRIVATE FOR THIS SITE.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL 501.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHT AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- FOR THE EXACT LOCATION AND DEPTH OF THE EXISTING WATER AND SEWER MAINS, THE CONTRACTOR SHALL DIG TEST PITS AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING ON-SITE EXTERIOR LIGHTING SHALL BE MODIFIED OR REPLACED IN ORDER TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF ZONING SECTION 134, AND ALL PROPOSED ON-SITE EXTERIOR LIGHTING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SAME ZONING SECTION. ALL PROPOSED OUTDOOR LIGHTING WILL BE ATTACHED TO THE EXISTING OR PROPOSED STRUCTURES LOCATED ON THIS SITE.
- THERE ARE NO FLOOD PLAINS OR WETLANDS ON THIS SITE.
- PARKING APPROVED IN ACCORDANCE WITH ZONING SECTION 133.D.
- EXISTING STORMWATER MANAGEMENT FACILITY IS PRIVATELY OWNED AND MAINTAINED.
- STORMWATER MANAGEMENT FOR THIS CONSTRUCTION IS DONE BY ROOFTOP DISCONNECT AND GRASS SHALES THAT DISCHARGE TO THE NORTH EDGE OF THE SITE.
- THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL SINCE THIS SITE HAS HAD A PREVIOUS SITE PLAN SUBMISSION WHICH SHOWS AN AREA OF DISTURBANCE FOR THE ENTIRE SITE (SDP 82-149 & 83-96). *Exception per Sec. 16.1504(b)(1)(ii).*
- THIS SITE PLAN CONFORMS TO THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- 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.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE MARYLAND STATE GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. GPS MONUMENTS SHOWN ABOVE USED FOR CONTROL.
- WATER IS PUBLIC (CONTRACT 36-145) SEWER IS PUBLIC (CONTRACT 5795)
- A TRAFFIC STUDY PREPARED BY STREET TRAFFIC STUDIES, LTD WAS APPROVED MAY 15, 2003.
- FIELD RUN TOPO TAKEN FROM SURVEY BY BRIAN DIETZ, JULY 2002.
- LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THE LANDSCAPE PLAN SHEET FOR THIS SITE DEVELOPMENT PLAN. SURETY IN THE AMOUNT OF \$2,160.00 SHALL BE POSTED WITH THE DEVELOPER'S AGREEMENT.

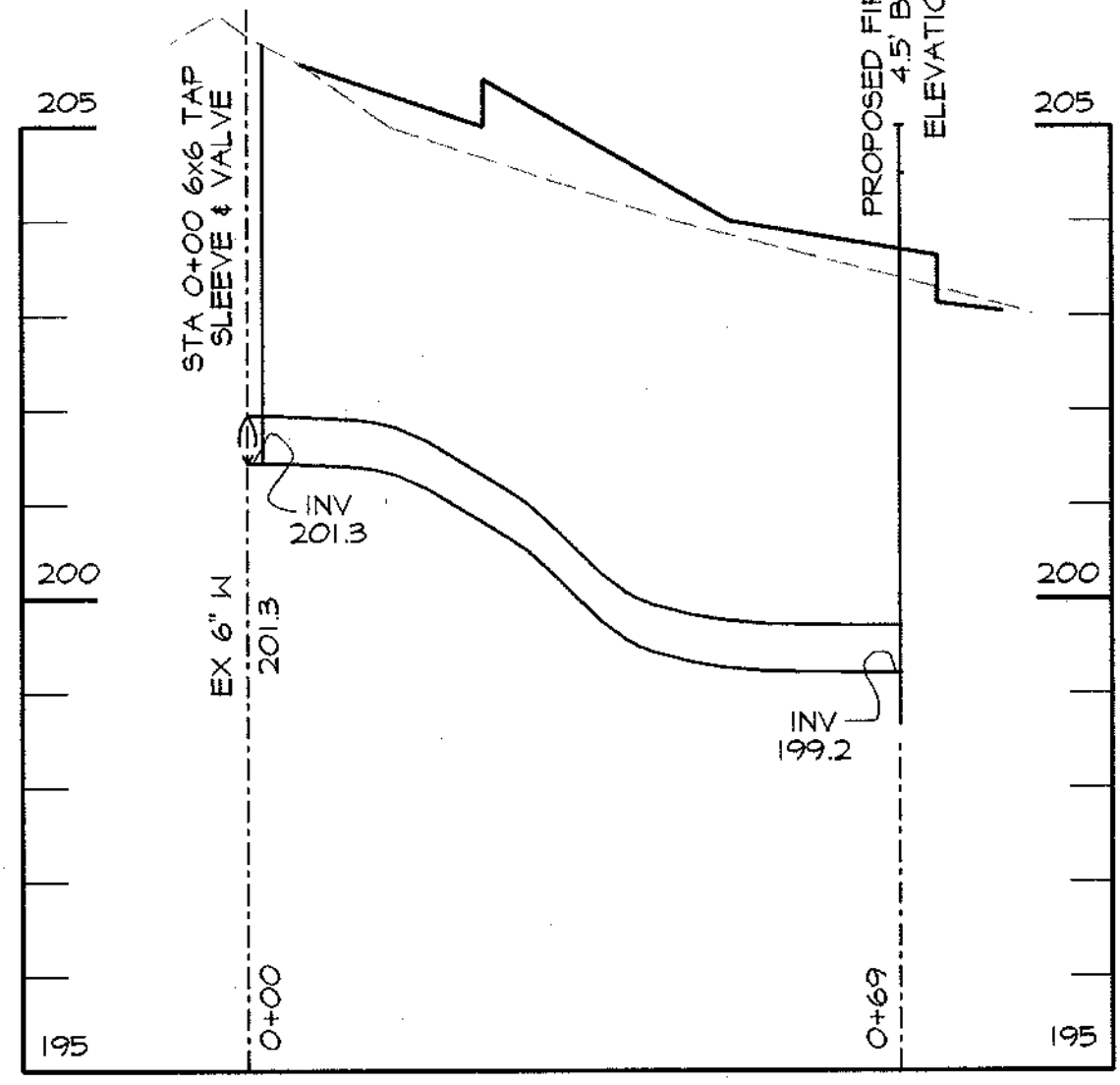
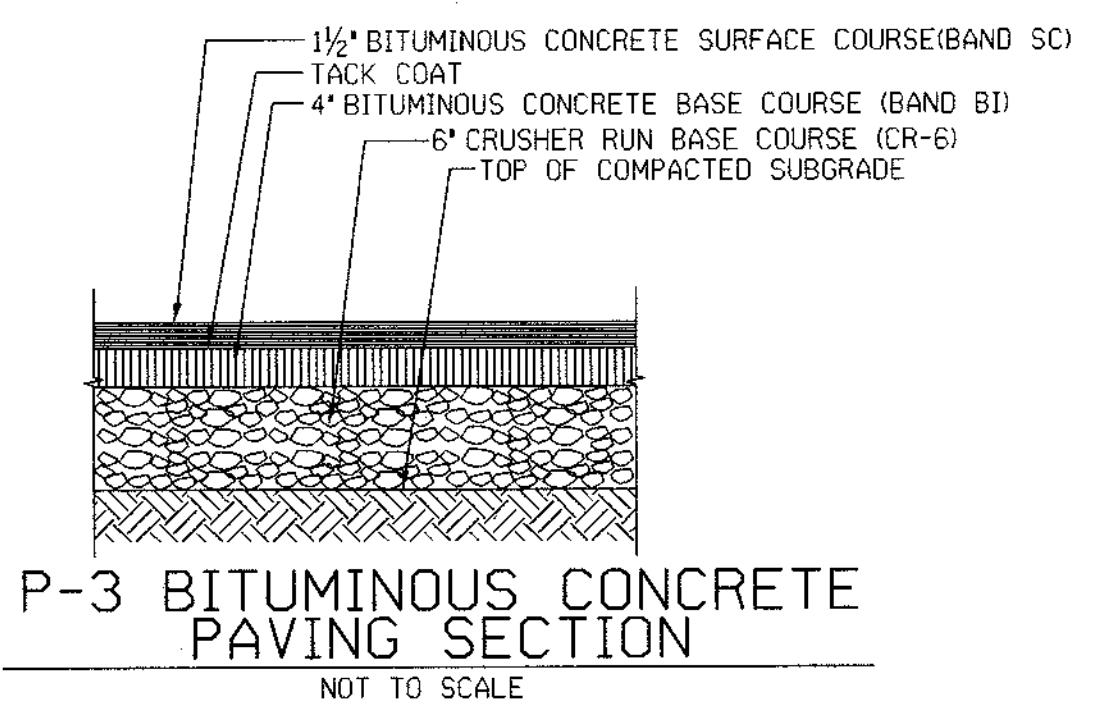
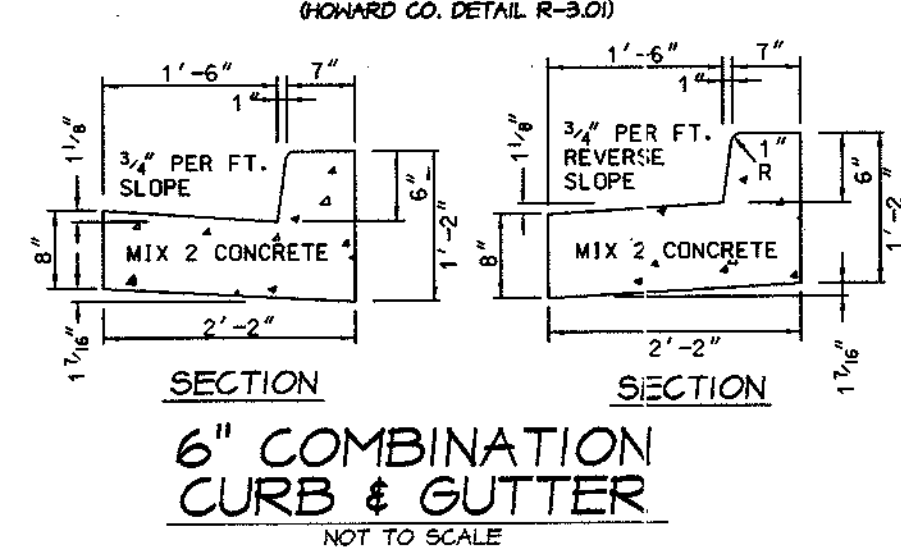
SITE ANALYSIS DATA:

- Total Area of Lot: 1.169 AC +/-
- Limit of Disturbance: 0.50 AC +/-
- Purpose of this SDP: New Building & Parking Lot Expansion
- Existing Use: Warehouse
- Proposed Use: Warehouse
- Owner/Developer: Donald & Rae Ann Gauldin
5166 Ilchester Road
Ellicott City, MD 21043-7006
- Existing Zoning: M-2
- Existing Building: 8,789 SF
- Proposed Building: 4,999 SF
- Required Setbacks: Street: 50'
Use Other Than Structure: 30'
Side: 0'
Rear: 0'
- Parking Computations: Existing Parking 4 Spaces
Number of Parking Spaces Required: New Warehouse -
4,999 SF @ 2.5/1000 SF=13 SPACES
Number of Parking Spaces Provided: 17 Spaces
(Inc. 1 HC Spaces)
- Open Space: 44842 SF / 64102 SF = 70%
- Floor Area Ratio: 13785 SF / 64102 SF = 0.21
- Applicable DPZ Ref.: SDP-82-146, SDP-83-96
- The subject property is zoned M-2 per the 10/19/93 Comprehensive Zoning Plan.
- Approval of this plan does not address design issues regarding the adequacy of the existing driveway entrance to the loading dock.

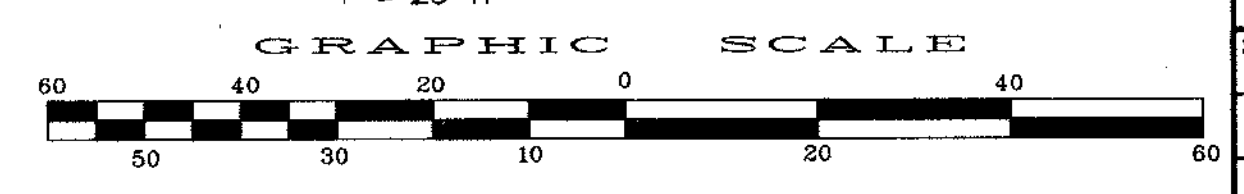


BUILDING ELEVATION
NOT TO SCALE

DESIGN NOTES:
ALTERNATE MOUNTABLE CEMENT CONCRETE CURB SECTIONS MAY BE USED WHERE SIDEWALKS ARE NOT CURRENTLY REID OR REASONABLY ANTICIPATED.



PROFILE PROPOSED FIRE HYDRANT
SCALE: 1" = 2' V, 1" = 20' H



SHEET INDEX:

- SHEET 1 SITE PLAN
- SHEET 2 LANDSCAPE PLAN.
- SHEET 3 GRADING & SEDIMENT CONTROL PLAN.
- SHEET 4 SEDIMENT CONTROL DETAILS.
- SHEET 5 D.A. MAP, PROFILES & SITE DETAILS

ADDRESS CHART	
LOT/PARCEL*	STREET ADDRESS
39	7045 KIT KAT ROAD

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL	
N/A		39	
PLAT * OR L/P	BLOCK *	ZONING	TAX/ZONING MAP
3990/119	4	M2	43
WATER CODE	E-06	ELECTION DIST	13T
		CENSUS TRACT	6012.02
		SEWER CODE	55202000

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/19/04
CHEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 3/22/04
CHEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 3/22/04
DIRECTOR DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
DONALD & RAE ANN GAULDIN
5166 ILCHESTER ROAD
ELLCOTT CITY, MD 21043
410-788-8539

PROJECT:
NEW BUILDING AND PARKING LOT ADDITION

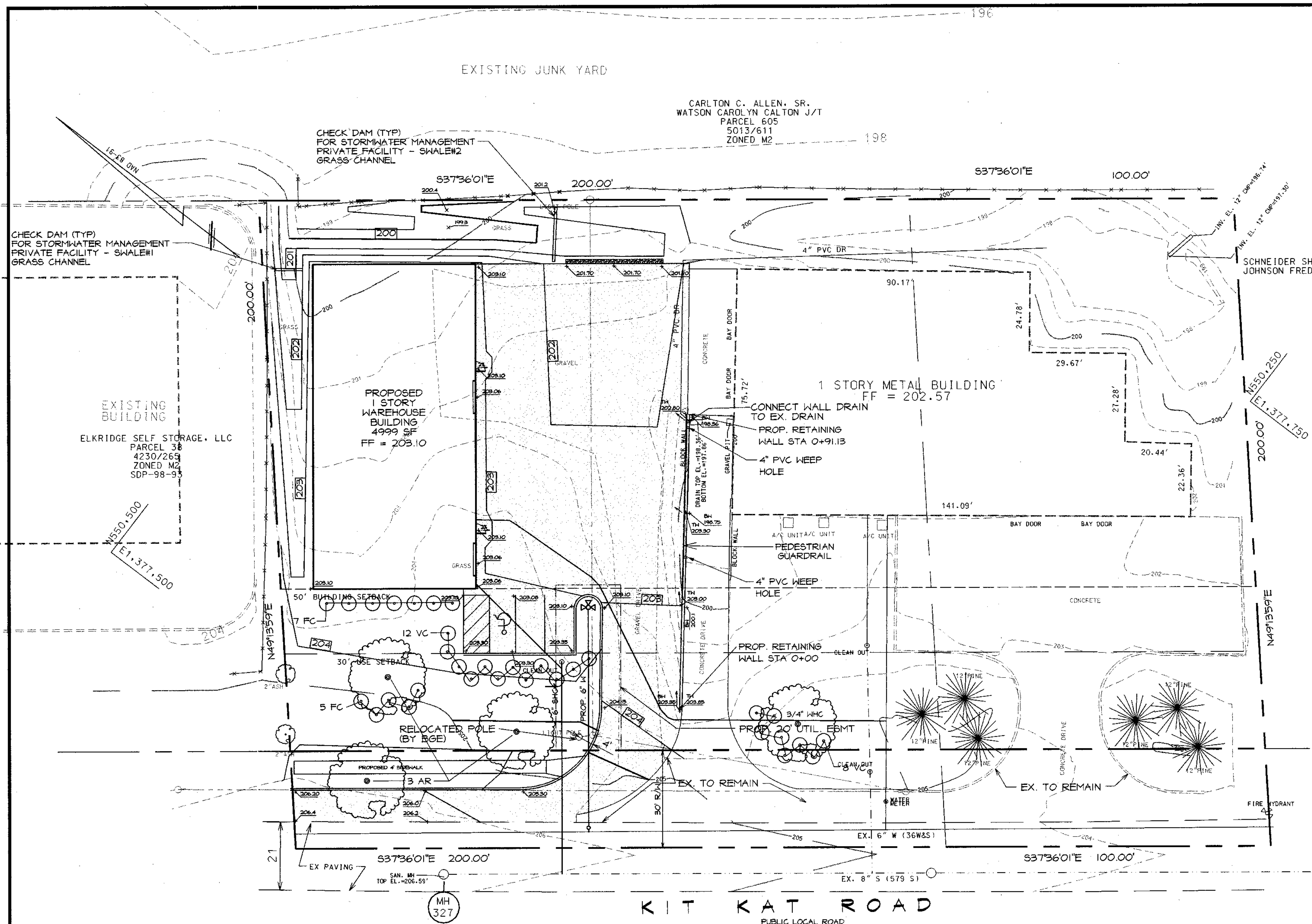
TITLE
SITE PLAN

Richardson Engineering, LLC

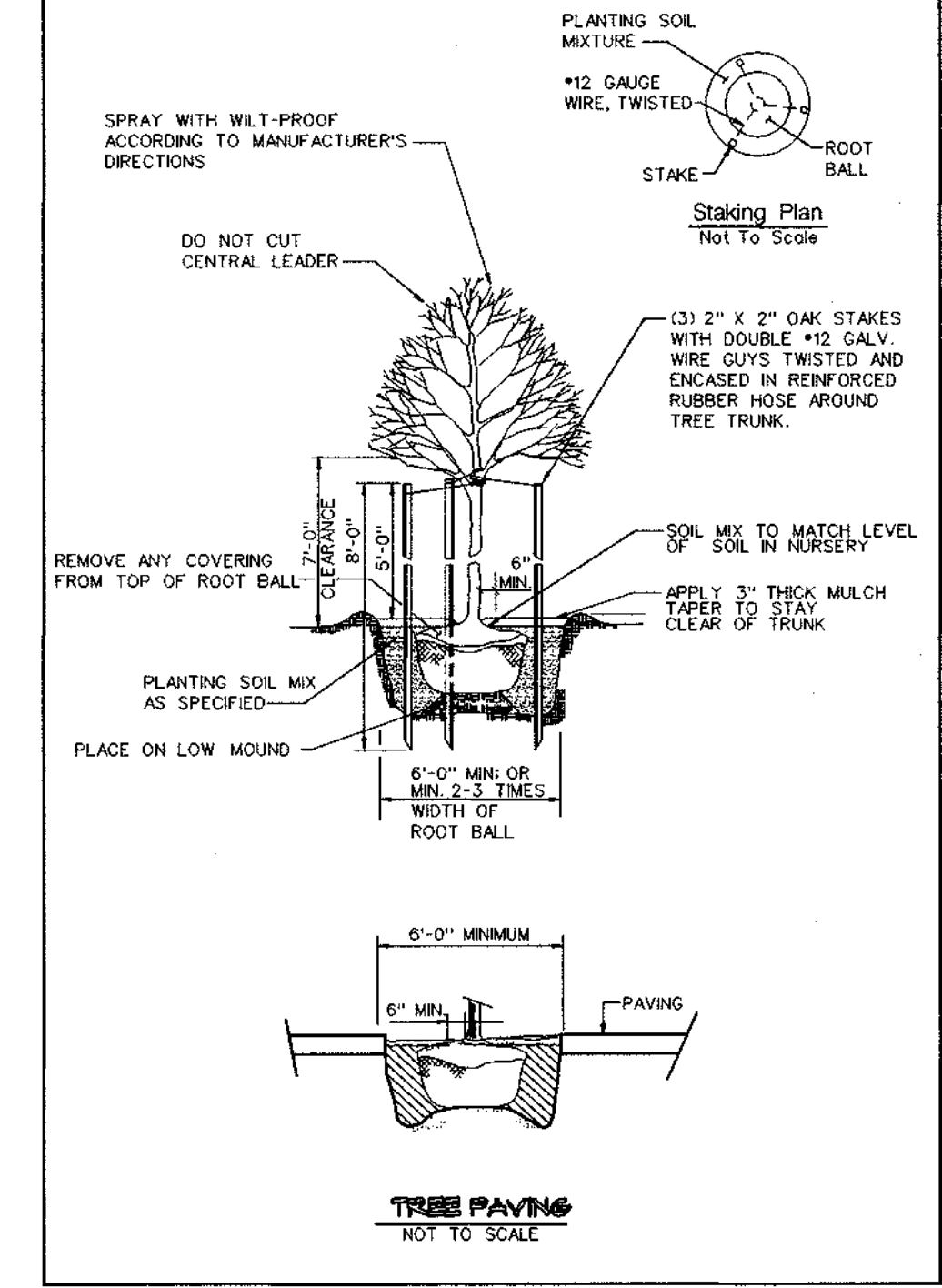
730 W. Padonia Road
Cockeysville, Maryland 21030
Phone: 410-560-1502 Fax: 410-560-0827

CHECKED BY: PCR
DESIGNED BY: PCR
DRAWN BY: PCR
PROJECT NO.: 02043
DATE: 6/08/2003
SCALE: 1" = 20'
DRAWING NO. 1 OF 5
FILE NO. SDP-03-143

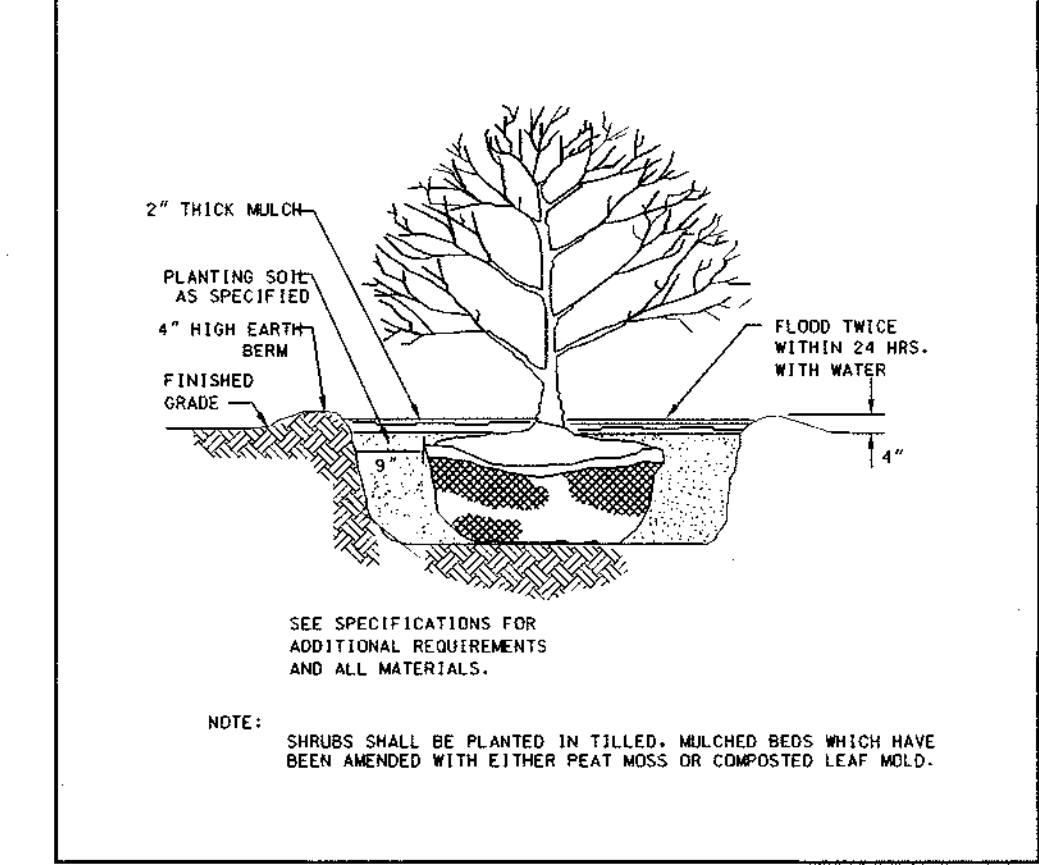
2/27/04
DATE



Tree Planting Detail Not To Scale



Shrub Planting Detail Not To Scale



AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.

PLANT LIST

QTY.	SYM.	BOTANICAL NAME	COMMON NAME	REMARKS
4	AR	ACER RUBRUM	RED MAPLE	2 1/2"-3" CAL.
12	FS	FORSTYTHIA SUSPENS	KEEPPING FORSYTHIA	30"-36" HGT
20	VC	VIBURNUM CARLESII	FRAGRANT VIBURNUM	30"-36" HGT.

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS
LANDSCAPE TYPE	E
LINEAR FEET OF ROADWAY/ FRONTAGE/PERIMETER	125
CREDIT FOR EXISTING VEGETATION (YES NO, LINEAR FEET)	0
CREDIT FOR WALL FENCE OR BERM (YES NO, LINEAR FEET)	0
NUMBER OF PLANTS REQUIRED	
SHADE TREES	1/40=3
EVERGREEN TREES	0
SHRUBS	1/4=32
NUMBER OF PLANTS PROVIDED	
SHADE TREES	2*
EVERGREEN TREES	0
OTHER TREES (2:1 SUBSTITUTION)	0
SHRUBS (10:1 SUBSTITUTION)	32

SCHEDULE B INTERNAL PARKING LOT

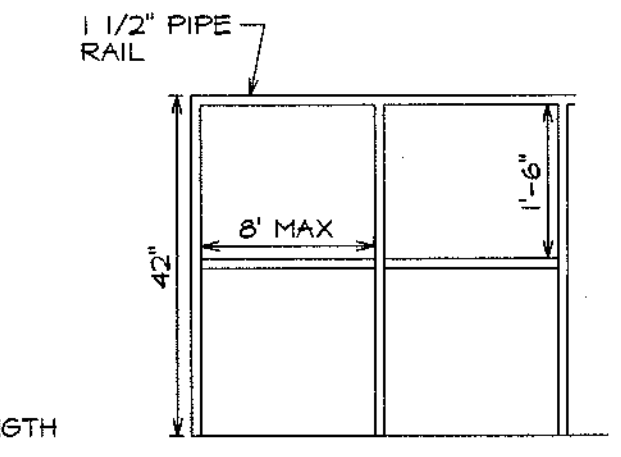
LANDSCAPE REQUIREMENTS:
 PROPOSED PARKING SPACES: 13 (1 handicapped)
 INTERNAL ISLANDS REQUIRED: 0
 1/20 SPACES
 INTERNAL ISLANDS PROPOSED: 0
 PROPOSED TREES: 1*

DEVELOPER'S/BUILDERS 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 INSTALLATION, ACCOMPANIED BY AND EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

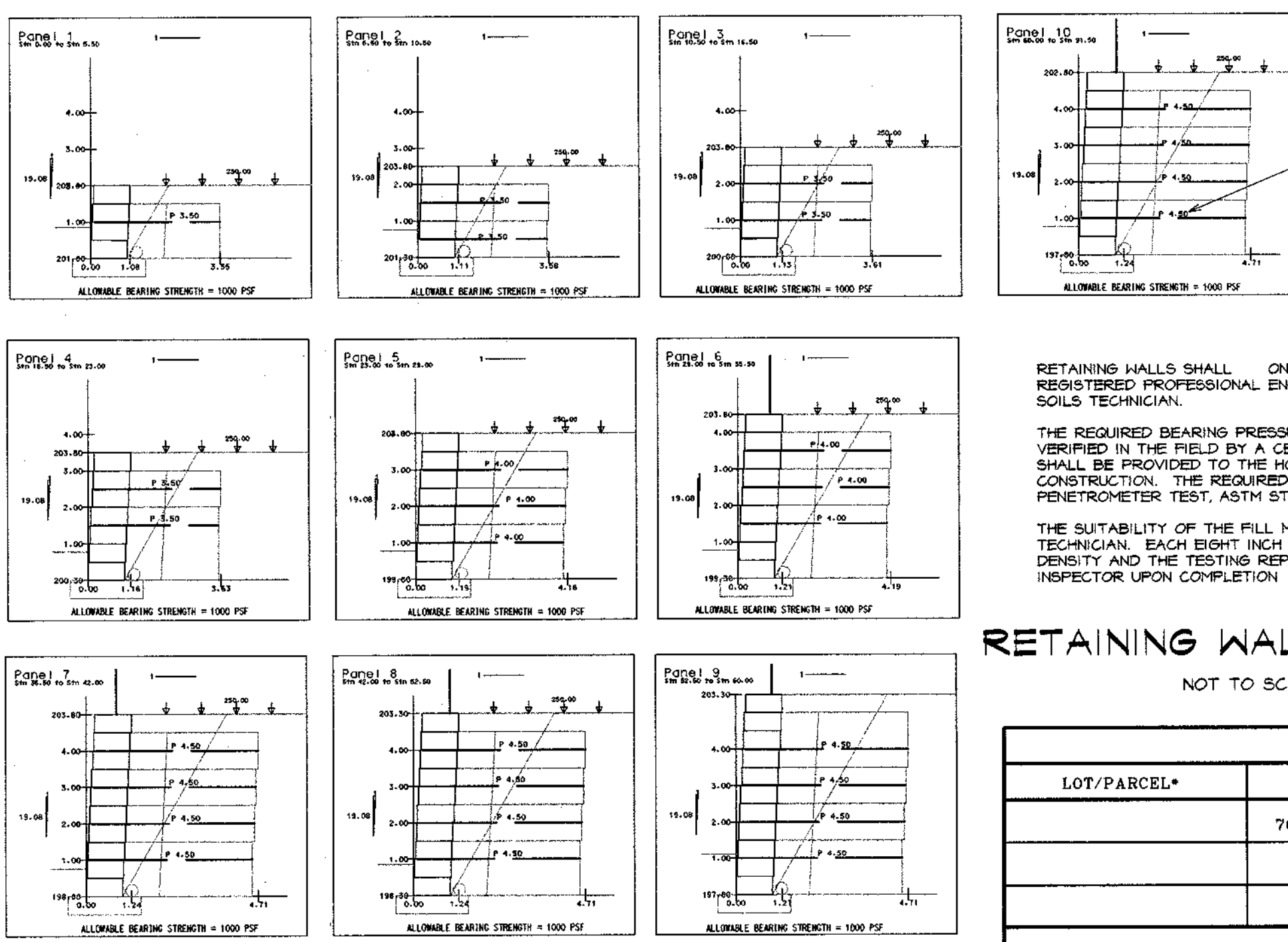
NAME: Donald Gaudin DATE: 2-26-04

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEV. AGREEMENT IN THE AMOUNT OF \$2,160.00. THIS SURETY IS BASED ON 4 SHADE TREES AT \$300.00 EACH, 0 EVERGREEN TREES AT \$150.00 EACH AND 32 SHRUBS @ \$30.00.

THE OWNER, TENTANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION AND WHEN NECESSARY, REPAIRED OR REPLACED.

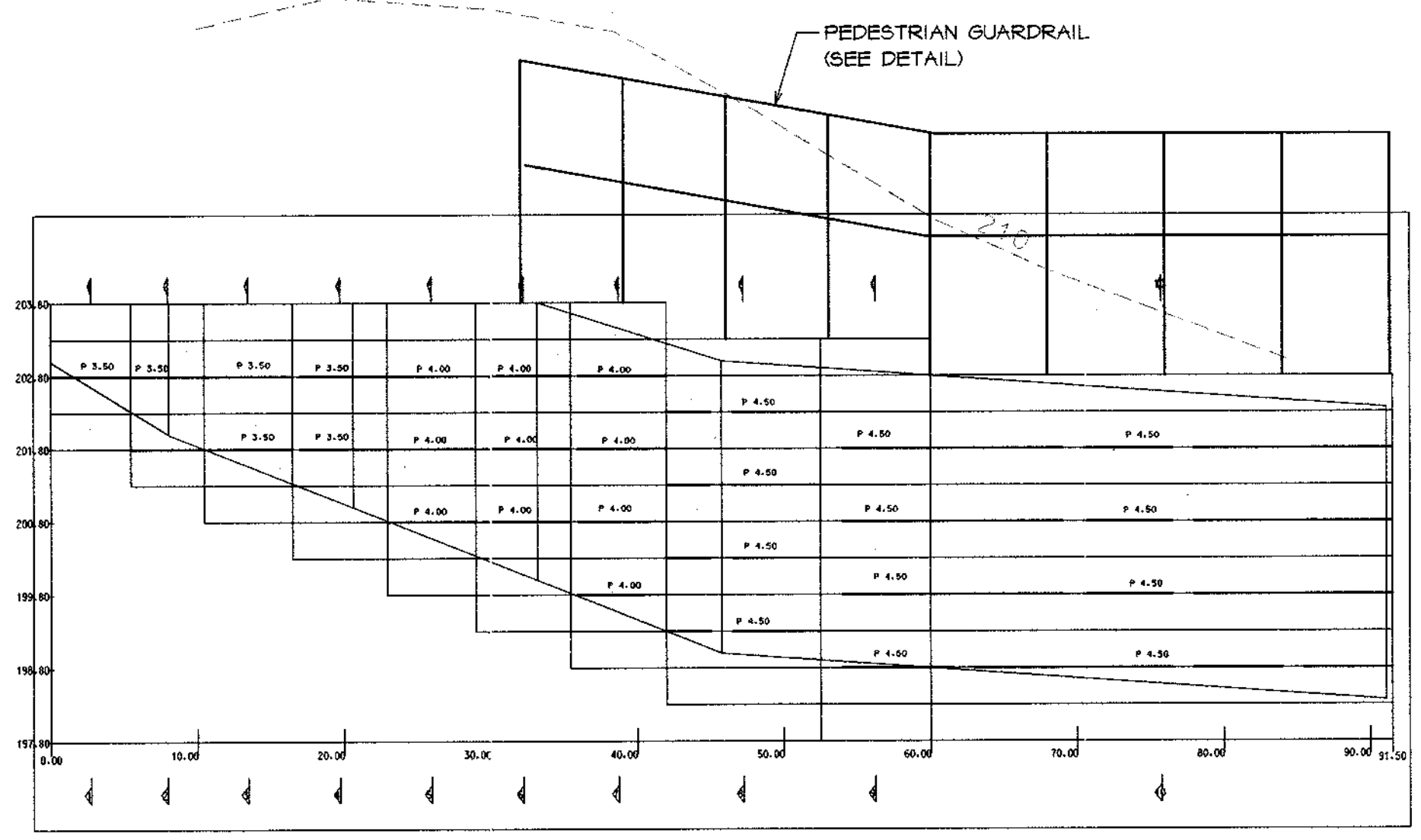
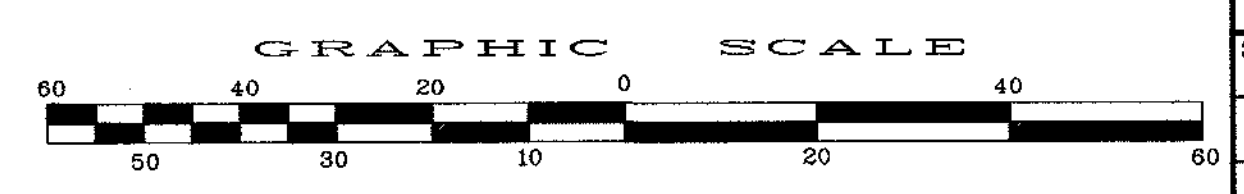


PEDESTRIAN GUARDRAIL DETAIL



RETAINING WALL SECTIONS NOT TO SCALE

ADDRESS CHART			
LOT/PARCEL*	STREET ADDRESS		
	7045 KIT KAT ROAD		
PERMIT INFORMATION CHART			
SUBDIVISION NAME		SECTION/AREA	LOT/PARCEL
PLAT * OR L/F		ZONING	TAX/ZONING MAP
WATER CODE		ELECTION DIST	CENSUS TRACT
E-06		1ST	6012.02
		SEWER CODE	55202000



RETAINING WALL PROFILE

SCALE: 1" = 2', 1" = 10' H

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/19/04
 [Signature] 3/23/04
 [Signature] 3/23/04

DATE	NO.	REVISION

OWNER/DEVELOPER
 DONALD & RAE ANN GAULDIN
 5166 ILCHESTER ROAD
 ELLICOTT CITY, MD 21043
 410-788-8539

PROJECT: **GAULDIN PROPERTY**
NEW BUILDING AND PARKING LOT ADDITION

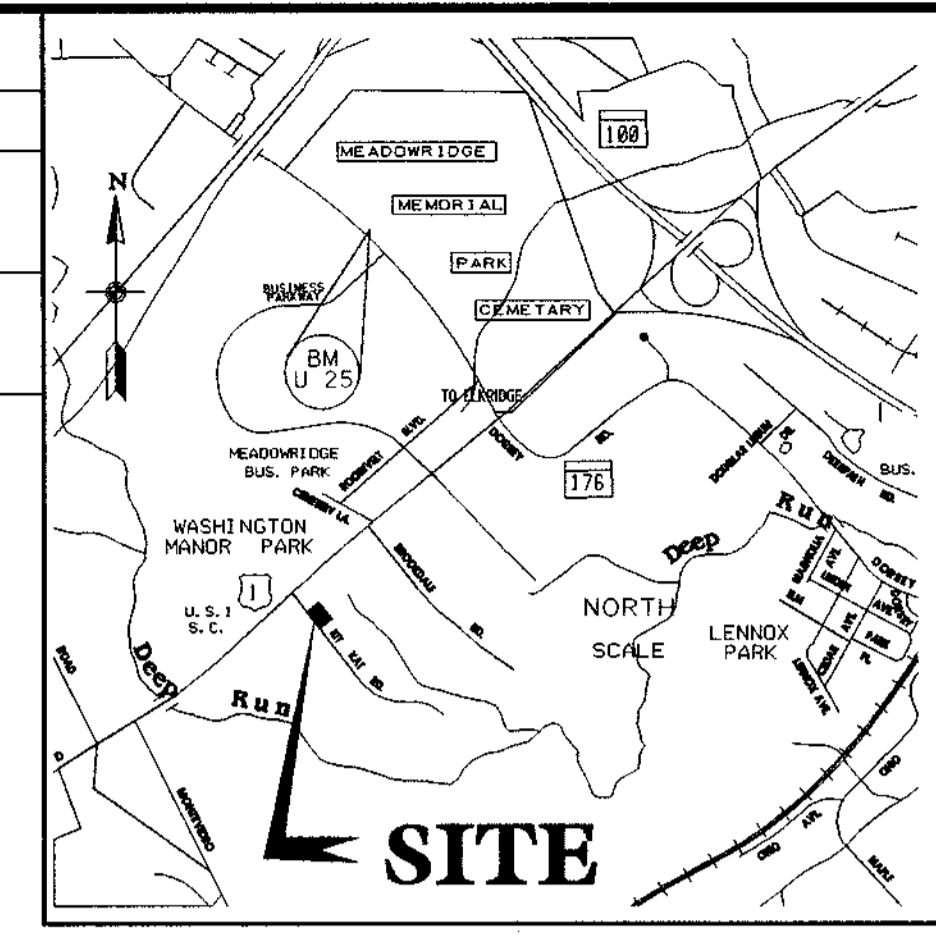
TITLE
LANDSCAPE PLAN

Richardson Engineering, LLC
 730 W. Padonia Road
 Cookeville, Maryland 21030
 Phone: 410-560-1502 Fax: 410-560-0827

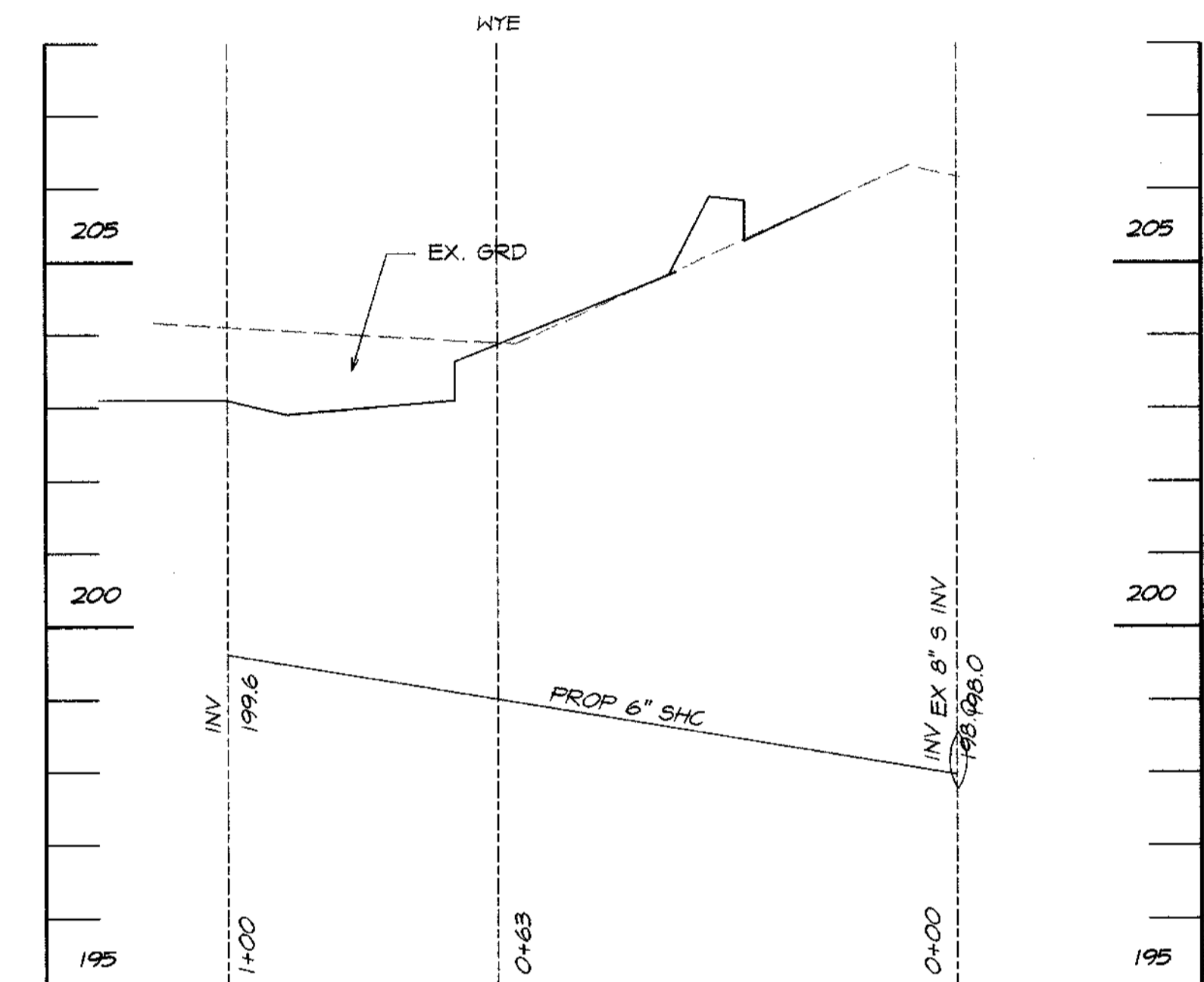
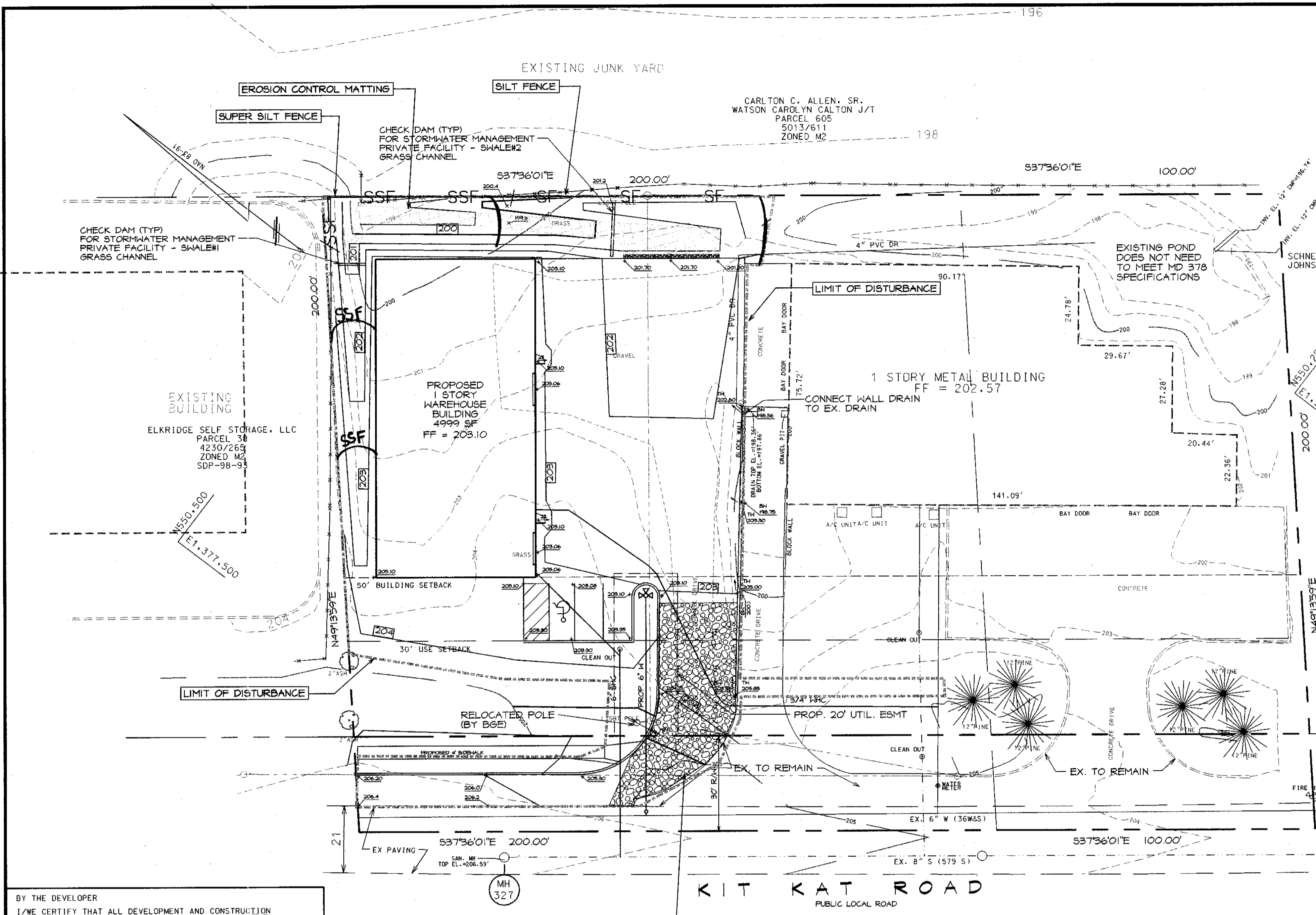
CHECKED BY: PCR
 DESIGNED BY: PCR
 DRAWN BY: PCR
 PROJECT NO.: 02043
 DATE: 6/08/2003
 SCALE: 1" = 20'
 DRAWING NO. 2 OF 5
 FILE NO. SDP-03-143

GPS SURVEY CONTROL POINTS

NO.	NORTHING	EASTING	ELEV.
GORF GPS N	568,014.98	1,365,020.35	514.664
U 25	554,701.88	1,377,647.62	215.393



VICINITY MAP
SCALE: 1"=2000'



PROFILE SANITARY CONNECTION
SCALE: HORIZ. : 1"=20'
VERT. : 1"=2'

BY THE DEVELOPER
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN 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 DISTRICT.

Donald H. Gaudin 2-26-04
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John K. Robertson 2/27/04
ENGINEER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Jim Mays 3/18/04
NATURAL RESOURCES SERVICES DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John K. Robertson 3/18/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED DEPARTMENT OF PLANNING AND ZONING
Mike Deamann 3/19/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

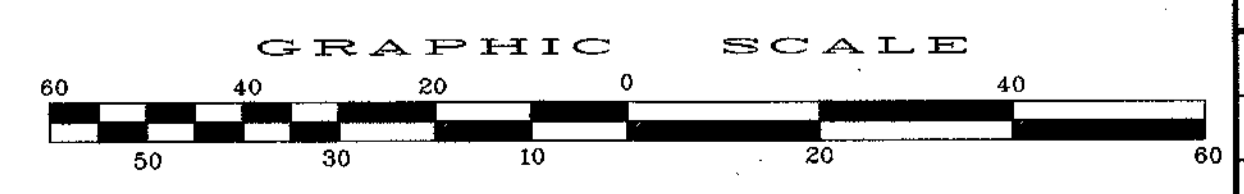
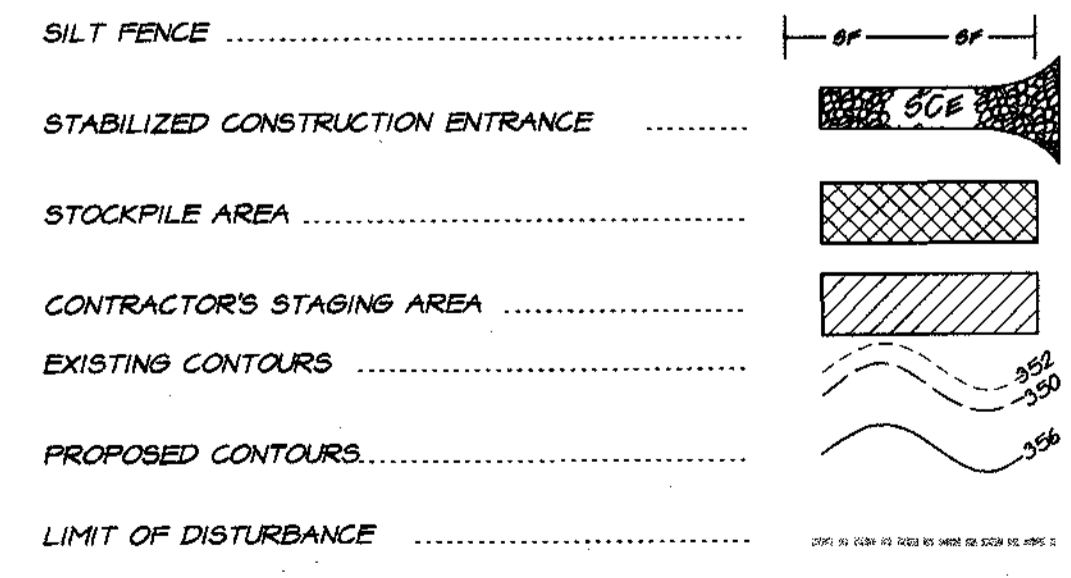
Cindy Hendrick 2/23/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Paul D. Wright 2/23/04
DIRECTOR DATE

SEQUENCE OF CONSTRUCTION

1. Obtain a Grading Permit through the Department of Inspections Licenses and Permits.
2. Notify Howard County Sediment Control Division, (410-313-0253) at least 48 hours prior to beginning work.
3. Clear and grub for sediment and erosion control measures or devices. Install silt fence and stabilized construction entrance. 1 day
4. Notify Howard County Sediment Control Division inspector upon completion of said installation.
5. With the approval of Howard County Sediment Control Division inspector, clear and grub remainder of site. 1 day
6. Rough grade site and temporarily stabilize any areas not to be worked. 3 days
7. Begin building construction. 30 days
8. Install water and sewer connections for building. 3 days
9. Fine grade for parking lot. 1 day
10. Construct curb, install base paving and fine grade and permanently stabilize the site. 1 week
11. Grade for water quality swales and landscaping. 1 week
12. With the approval of Howard County sediment control inspector, remove all sediment and erosion control devices and permanently stabilize any remaining area

LEGEND :



GENERAL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction - 410-313-0253.
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 AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, 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 AND SEDIMENT CONTROL. Temporary stabilization with mulch alone can 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 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:
Total Area of Site: 50,921 SF / 1.17 Acres
Area Disturbed: 21,977 SF / 0.50 Acres
Area to be roofed or paved: 16,777 SF / 0.38 Acres
Area to be vegetatively stabilized: 5,201 SF / 0.12 Acres
Total Cut: 200 Cu. yds
Total Fill: 200 Cu. yds
Offsite waste/borrow area location- A site with a currently active grading permit.
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 control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.

ADDRESS CHART	
LOT/PARCEL*	STREET ADDRESS
39	7045 KIT KAT ROAD

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL	
N/A	N/A	39	
PLAT * OR L/P	BLOCK *	ZONING	TAX/ZONING MAP
3990/119	4	M2	43
WATER CODE	ELECTION DIST	CENSUS TRACT	
E-06	1ST	6012.02	
	SEWER CODE		
	55202000		

DATE	NO.	REVISION

OWNER/DEVELOPER
DONALD & RAE ANN GAULDIN
5166 ILCHESTER ROAD
ELLCOTT CITY, MD 21043
410-788-8539

PROJECT:
**GAULDIN PROPERTY
NEW BUILDING AND PARKING LOT ADDITION**

TITLE
**GRADING & SEDIMENT
CONTROL PLAN**

Richardson Engineering, LLC

730 W. Padonia Road
Cockeysville, Maryland 21030
Phone: 410-560-1502 Fax: 410-560-0827

CHECKED BY: PCR
DESIGNED BY: PCR
DRAWN BY: PCR
PROJECT NO.: 02043
DATE: 6/08/2003
SCALE: 1" = 20'
DRAWING NO. 3 OF 5
FILE NO. SDP-03-143

Table 25 Permanent Seeding for Low Maintenance Areas

MIX	SEED MIX (USE CERTIFIED MATERIAL IF AVAILABLE)	PLANTING LBS./AC. SO.FT.	SITE CONDITIONS	PLANT HARDINESS ZONE 6b							
				RECOMMENDED PLANTING DATES	USDA HARD- NESS ZONES	3/1- 5/15	5/15- 8/14	8/14- 10/1	10/1- 11/15		
1	TALL FESCUE (75%), CANADA BLUEGRASS (10%), KENTUCKY BLUEGRASS (10%), REDFOP (5%)	150	3.4	MOIST TO DRY	5b	X		X			A
2	KENTUCKY BLUEGRASS (50%), CREEPING RED FESCUE OR A HARD FESCUE REDFOP (10%)	150	3.4	MOIST TO MODERATELY DRY TO DRY	5b	X		X			B
3	TALL FESCUE (85%), PERENNIAL RYEGRASS (10%), KENTUCKY BLUEGRASS (5%)	125 20 30	2.9 .34 .23	MOIST TO DRY	5b	X		X			C
4	RED FESCUE OR CREEPING FESCUE (80%), PERENNIAL RYEGRASS (20%)	60 15 30	.92 .92 .34	MOIST TO DRY	5b	X		X			D
5	TALL FESCUE (85%) OR PERENNIAL RYEGRASS (20%) PLUS CROWN VETCH OR FLATPEA	100 20 20	2.5 .46 .46	MOIST TO DRY	5b	X		X			E
6	WEeping LOVEGRASS (75%), SERECIA LESPEDEZA (15%)	4 20	.06 .46	DRY TO VERY DRY	6a	X	X				F
7	TALL FESCUE (83%) OR WEeping LOVEGRASS (23%) PLUS SERECIA LESPEDEZA (15%)	100 3 20	2.5 .07 .46	DRY TO VERY DRY	5b	X		X	X		G
8	REED CANARYGRASS (75%), REDFOP (10%) PLUS BROODFOOT TREFOIL (15%)	40 3 10	.92 .07 .23	WET TO MODERATELY DRY	5b	X		X			H
9	TALL FESCUE (86%) OR POA TRIVIALIS (77%) PLUS BROODFOOT TREFOIL (7%)	125 10 30	2.9 .23 .23	WET TO MODERATELY DRY	5b	X		X			I
10	TALL FESCUE (60%), HARD FESCUE (20%)	120 30	3.4 .69	WET TO DRY	5b	X		X			J
11	HARD FESCUE (100%)	.75	1.7	WET TO DRY	5b	X		X			K

20.0 STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS

A. Site Preparation

- Installation and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment basins.
- Perform grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
- Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.

B. Soil Amendments (Fertilizer and Lime Specifications)

- Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may not be used for determining fertilizer.
- Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Measure may be substituted for fertilizer with prior approval from the appropriate authority. Fertilizers shall be delivered to the site fully labeled according to the applicable State fertilizer laws and shall bear the name, trade name or trademark and warrantee of the producer.
- Lime materials shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98-100% will pass through a #20 mesh sieve.
- Incorporate lime and fertilizer into the top 3 - 5" of soil by disking or other suitable means.

C. Seedbed Preparation

- Temporary Seeding
 - Seedbed preparation shall consist of loosening soils to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disk harrows or chisel plows or ripper mounted on construction equipment. After the soils loosened it should not be rolled or dropped smooth, but left in the roughened condition. Sloped areas (greater than 3%) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3 - 5" of soil by disking or other suitable means.
- Permanent Seeding
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 7.0.
 - Available salts shall be less than 200 parts per million (ppm).
 - The soil shall contain less than 40% clay but enough fine grained material (300' silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loess or silt loess is to be planted, then a sandy soil (30% silt plus clay) would be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then smoothed or otherwise loosened to a depth of 3 - 5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Mix soil amendments into the top 3 - 5" of topsoil by disking or other suitable means. Loan grade area for seed application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3%) should be tracked by a dozer leaving the soil in irregular condition with ridges running parallel to the contour of the slope. The top 1 - 2" of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas.

D. Seed Specifications

- All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to retesting by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.
- Seed tags shall be made available to the inspector to verify type and rate of seed used.
- Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculant shall be used after preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Stop slopes (steeper than 3%) should be tracked by a dozer leaving the soil in irregular condition with ridges running parallel to the contour of the slope. The top 1 - 2" of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas.

E. Methods of Seeding

- Hydroseeding - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeder, or a catpucker seeder.
 - If fertilizer is being applied at the time of seeding, the application rate amounts will exceed the following nitrogen maximum of 100 lbs. per acre total of soluble nitrogen P205 (phosphorus) 200 lbs./acre, K2O (potassium) 200 lbs./acre.
 - Lime - Use only ground agricultural limestone (up to 3 tons per acre) may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
- Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
- Dry Seeding - This includes use of conventional drop or broadcast spreaders.
 - Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 25 or 26. The seeded area shall then be rolled with a weighted roller to produce good seed to soil contact.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
- Roller/Catpucker Seeding - Mechanized seeders that apply and cover seed with soil.
 - Catpucker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

F. Mulch Specifications (in order of preference)

- Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonably bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.

G. Mulching Seeded Areas - Mulch shall be applied to seeded areas immediately after seeding.

- If grading is completed outside for the seeding season, mulch should be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
- When straw mulch is used, it shall be spread over seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform depth and so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
- Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

H. Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and anchor hazard:

- A mulch anchoring tool is a tractor draw implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
- Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
- Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. The remainder of area should be anchored by other binder application. Synthetic binders such as Acrylic DLR (Agra-Tack), DCA-10, Petrolac, Terra-Tax II, Terra-Tack AR, or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
- Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' wide and 300 to 3,000 feet long.

SECTION IV - SOD

Sod - to provide quick cover on disturbed areas (21 grade or flatter)

A. General Specifications

- Class of turfgrass sod shall be Maryland or Virginia State Certified or Approved. Sod tubs shall be made available to the job foreman and inspector.
- Sod shall be machine cut to a uniform soil thickness of 3/4", plus or minus 1/4", at the time of cutting. Measurement for thickness shall exclude top growth and thatch. Individual pieces of sod shall be cut to the specified length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pieces and torn or uneven ends will not be acceptable.
- Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grip on the upper 10 percent of the section.
- Sod shall not be harvested or transported when moisture content (excessively dry or wet) may adversely affect its survival.
- Sod shall be harvested, delivered, and installed within a period of 36 hours. Sod not transported within this period shall be approved by an agronomist or soil scientist prior to its installation.

B. Sod Installation

- During periods of excessively high temperature or in areas having dry subsoil, the subsoil shall be lightly irrigated immediately prior to laying the sod.
- The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and lightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
- Whenever possible, sod shall be laid with the long edges parallel to the contour and with staggering joints. Sod shall be rolled and tamped, pegged or otherwise secured to prevent slippage on slopes and to ensure solid contact between sod roots and the underlying soil surface.
- Sod shall be watered immediately following rolling or tamping until the underside of the new sod and subsoil below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight hours.

C. Sod Maintenance

- 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 soils to a depth of 4". Watering should be done during the heat of the day to prevent wilting.
- After the first week, sod watering is required as necessary to maintain adequate moisture content.
- The first mowing of sod shall not be attempted until the sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2" and 3" unless otherwise specified.

TABLE 26 - TEMPORARY SEEDING RATES, DEPTHS, AND DATES

SPECIES	MINIMUM SEEDING RATES PER ACRE	LBS./1000 SO.FT.	PLANTING DEPTH*	PLANT HARDINESS ZONE 6b											
				HARDNESS ZONES 7a AND 7b		6b		6a AND 5b							
				2/1- 4/30	5/1- 8/14	8/15- 11/30	3/1- 4/30	5/1- 8/14	8/15- 11/15	3/15- 5/31	6/1- 7/31	8/1- 10/31			
CHOOSE ONE: BARLEY OATS RYE**	2.5 BU. (122 lbs) 3 BU. (96 lbs) 2.5 BU. (140 lbs)	2.20 2.81 3.22	1-2 1-2 1-2	X	-	BY	X	-	BY	X	-	BY	X	-	BY
BARLEY OR RYE PLUS FOXTAIL MILLET**	150 lbs	3.45	1-2	X	X	10/15	X	X	10/15	X	X	10/15	X	X	10/15
WEeping LOVEGRASS**	4 lbs	.09	1/4-1/2	-	X	-	-	X	-	-	-	X	-	-	-
ANNUAL RYEGRASS	50 lbs	1.15	1/4-1/2	X	-	11/1	X	-	11/1	X	-	8/15			
MILLET**	50 lbs	1.15	1/2	-	X	-	-	X	-	-	-	X	-	-	-

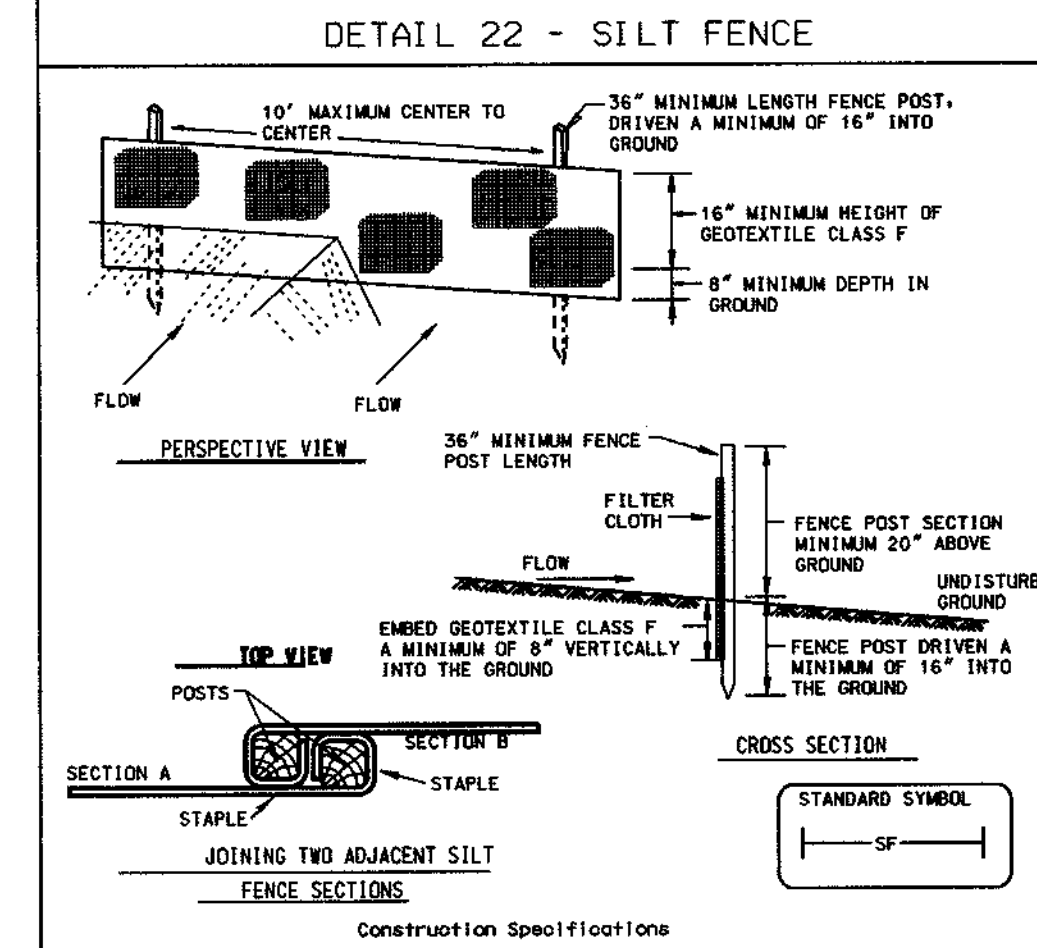
FERTILIZER RATE: (10-10-10)
15 LBS./1000 S.F., 800 LBS./ACRE
LIME RATE 100 LBS./1000 S.F., 2 TONS/ACRE

- APPLICABLE ON SLOPES OF 3:1 OR FLATTER
- REFER TO FIGURE A - ADOPTED FROM USDA, ARS MISCELLANEOUS PUBLICATION #1475, JANUARY 1990
- BETWEEN FALL AND SPRING SEEDING DATES, USE MULCH ONLY IF GROUND IS FROZED AND RESEED WHEN THAWED
- MAY BE USED AS A NURSE CROP FOR LATE FALL / EARLY WINTER PERMANENT SEEDINGS, ADD 56 LBS./AC. TO THE PERMANENT SEEDING MIXTURE
- MARYLAND STATE HIGHWAY ADMINISTRATION TEMPORARY SEED MIX
- MAY BE USED AS A NURSE CROP FOR MID-SUMMER PERMANENT SEEDINGS, ADD 2 LBS./AC. TO PERMANENT SEED MIX
- MAY BE USED AS A NURSE CROP FOR MID-SUMMER PERMANENT SEEDINGS, ADD 10 LBS./AC. TO THE PERMANENT SEEDING MIX.

TABLE 27 GEOTEXTILE FABRICS

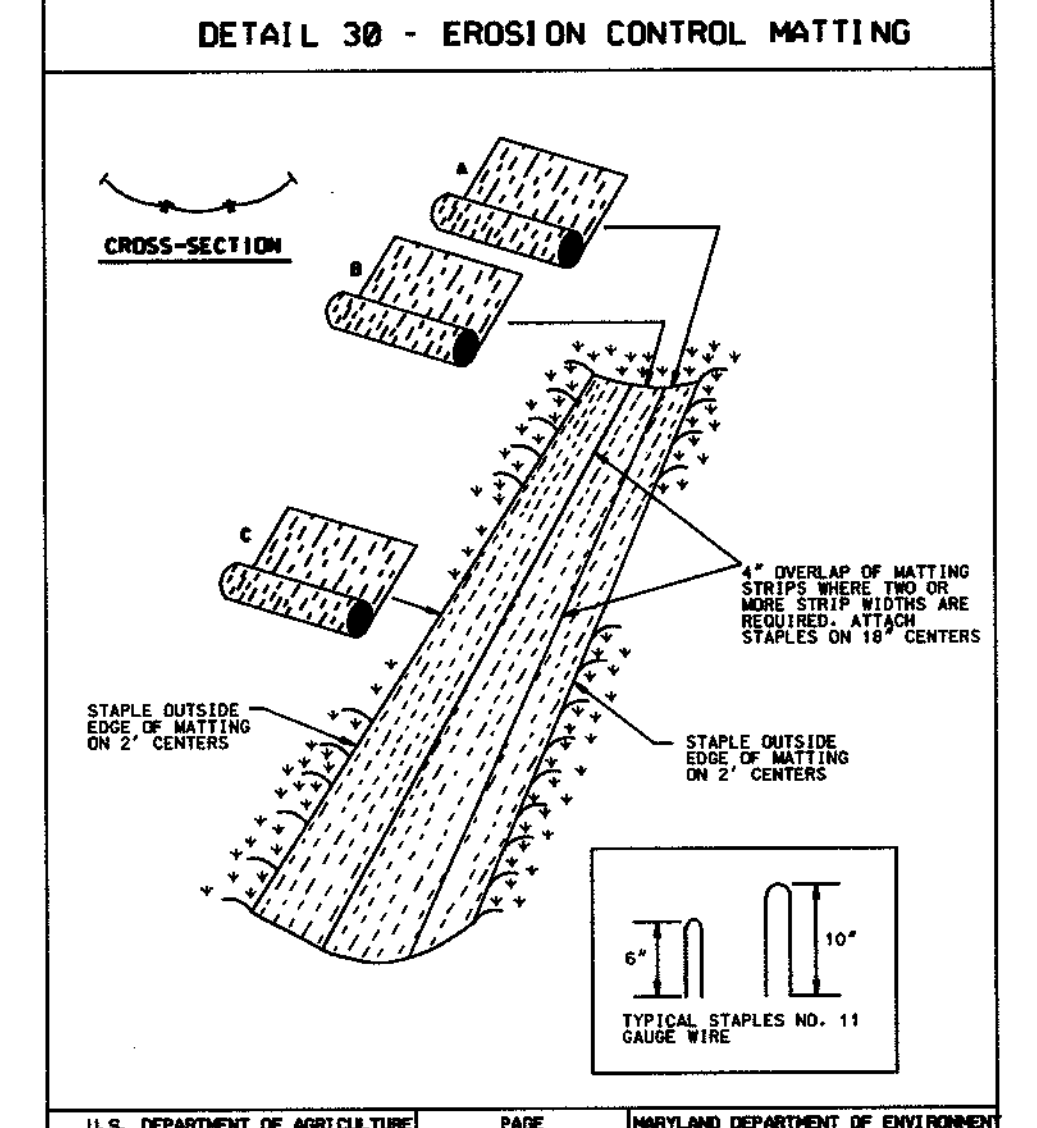
CLASS	APPEARANT OPENING SIZE MM. MAX.	GRAB TENSILE STRENGTH PSI. MIN.	BURST STRENGTH PSI. MIN.
A	0.30**	250	500
B	0.60	200	320
C	0.30	200	320
D	0.60	90	115
E	0.30	90	115
F #BILT FENCE*	0.10-0.00*	90	190

* US STD. SILEX CW-02215
** 0.50 MAX. FOR SUPER SILT FENCE



Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) and 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.
- 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:
Tensile Strength 50 lbs/in (min.)
Tensile Modulus 20 lbs/in (min.)
Flow Rate 0.3 gal/ft/min (max.)
Filtering Efficiency 75% (min.)
Test: MSMT 509
Test: MSMT 509
Test: MSMT 332
Test: MSMT 332
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.



Construction Specifications

- 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, spaced 6" down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by a slipshoap gash. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern.
- The discharge end of the matting line should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

24.0 MATERIALS SPECIFICATIONS

THE PROPERTIES SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:

- APPARENT OPENING SIZE MSMTM 323-GRAB TENSILE STRENGTH ASTM D 1682-4X8" SPECIMEN, 1X2
- CLAMPS, 12" MIN. STRAIN RATE IN BOTH PRINCIPAL DIRECTIONS OF GEOTEXTILE FABRIC.
- BURST STRENGTH ASTM D 3766

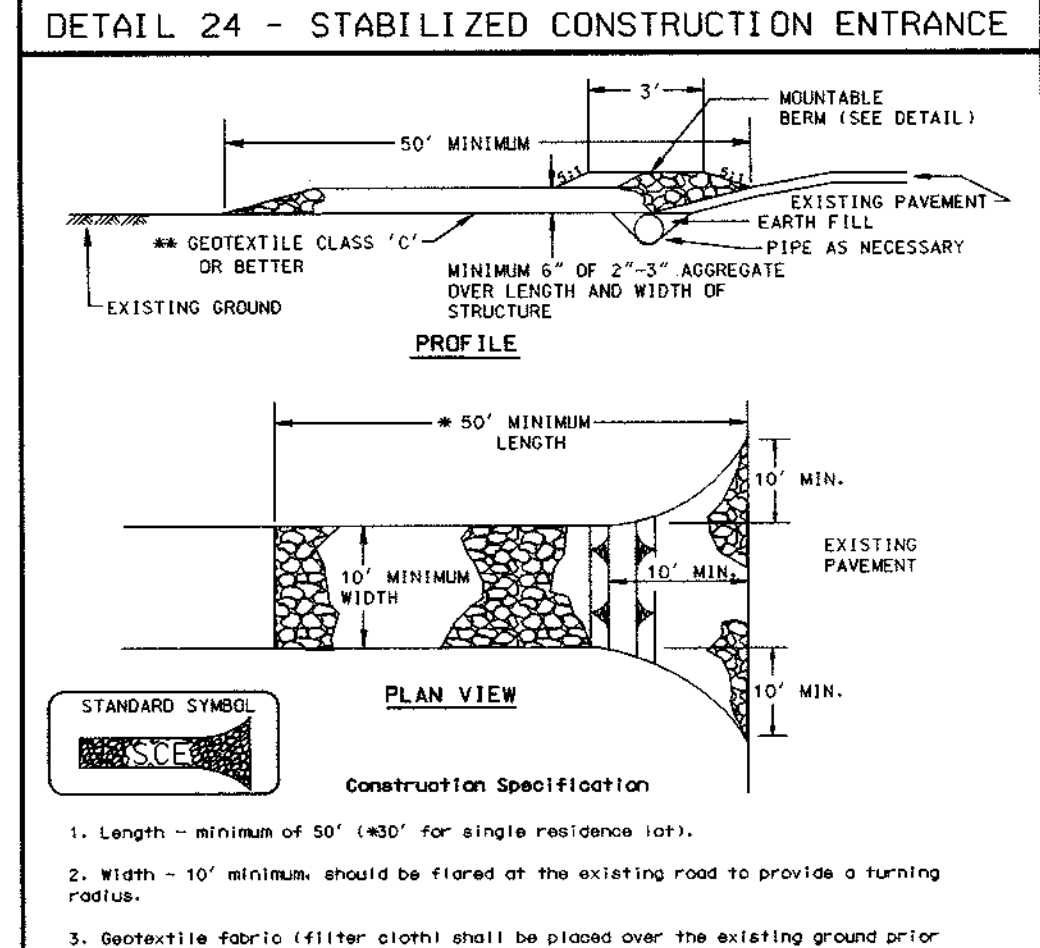
THE FABRIC SHALL BE INSERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS, AND WILL BE ROT AND MILDEW RESISTANT. IT SHALL BE MANUFACTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS, AND COMPOSED OF A MINIMUM OF 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES. THE GEOTEXTILE FABRIC SHALL RESIST DETRIORATION FROM ULTRAVIOLET EXPOSURE.

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 X WHEN TESTED IN ACCORDANCE WITH THE GRAB TENSILE STRENGTH REQUIREMENTS LISTED ABOVE.

SILT FENCE CLASS F GEOTEXTILE FABRICS FOR SILT FENCE SHALL HAVE A 50LB./IN. MIN. TENSILE STRENGTH AND A 20LB./IN. MIN. TENSILE MODULUS WHEN TEST IN ACCORDANCE WITH MSMT 509. THE MATERIAL SHALL ALSO HAVE A 0.3 GAL./FT. MIN. FLOW RATE AND 75% MIN. FILTERING EFFICIENCY WHEN TESTED IN ACCORDANCE WITH MSMT 322.

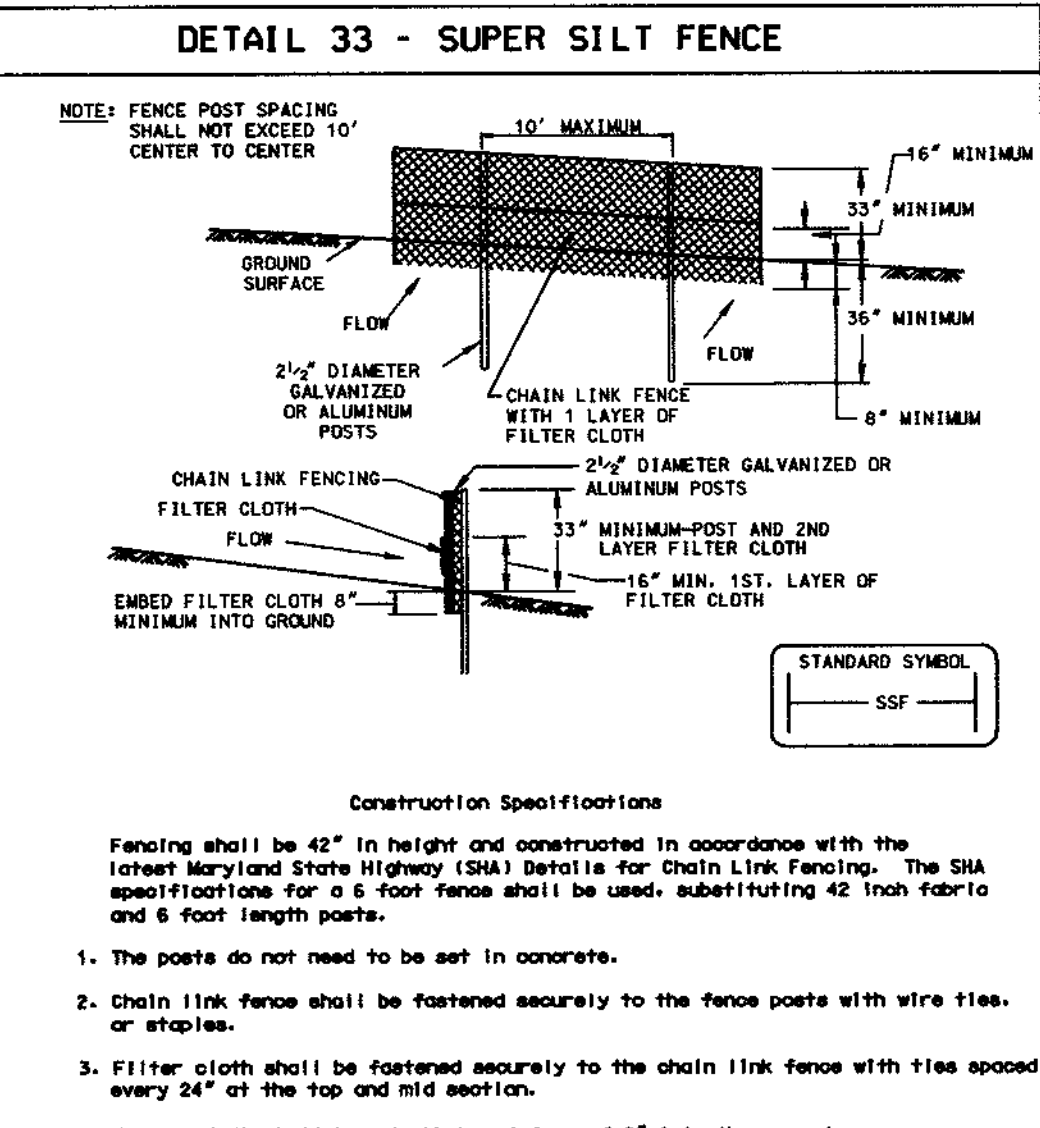
GEOTEXTILE FABRICS USED IN THE CONSTRUCTION OF SILT FENCE SHALL RESIST DETRIORATION FROM ULTRAVIOLET EXPOSURE. THE FABRIC SHALL CONTAIN SUFFICIENT AMOUNTS OF ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 12 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120 DEGREES F.

SUBDIVISION NAME		PERMIT INFORMATION CHART	
PLAT * OR L/F	BLOCK *	ZONING	TAX/ZONING MAP
3990/119	4	M2	43
WATER CODE	E-06	SEWER CODE	5520200
SECTION/AREA	LOT/PARCEL	ELECTION DIST	CENSUS TRACT
		15T	6012.02



Construction Specifications

- Length - minimum of 50' (40' for single entrance only).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- 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.
- Stone - crushed aggregate (2" to 3") or recycled or repaved concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface water - 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 countable 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 SDE is located at a high spot and the 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.
- Location - A stabilized construction entrance shall be located at every point where a construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



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 SHA specifications for a 6 foot fence shall be used, substituting 42 inch fabric and 6 foot length posts.
- The posts do not need to be set in concrete.
- Chain link fence shall be fastened securely to the fence posts with wire ties, or staples.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of geotextile filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence.

BY THE DEVELOPER

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE 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 AUTHORIZ PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Donald H. Gaudin
DEVELOPER

2-26-04
DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson
ENGINEER

2/26/04
DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim M. ...
NATURAL RESOURCES CONSULTING SERVICES
DATE: 3/18/04

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

John R. Robertson
DATE: 3/18/04

APPROVED: DEPARTMENT OF PLANNING AND ZONING

...
DATE: 3/19/04

...
DATE: 3/23/04

...
DATE: 3/23/04

FERTILIZER RATE: (10-20-20)
N 2LBS./1000 S.F., 90 LBS./ACRE
P205 4LBS./1000 S.F., 175 LBS./ACRE
K2O 4 LBS./1000 S.F., 175 LBS./ACRE
LIME RATE 100 LBS./1000 S.F., 2 TONS/ACRE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 5:1	unlimited	unlimited
5:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	80 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (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 required.

DATE NO. REVISION

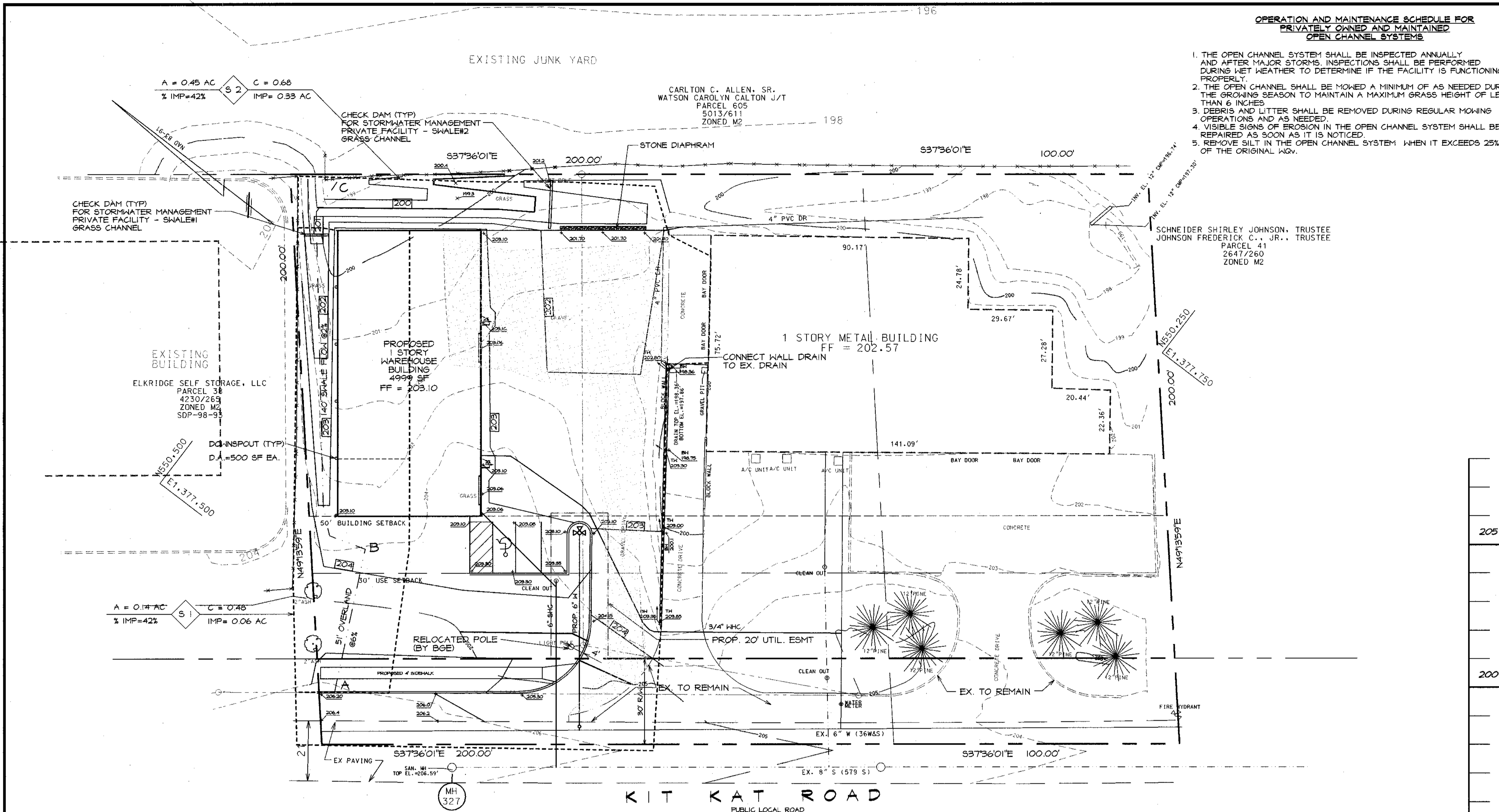
OWNER/DEVELOPER
DONALD & RAE ANN GAULDIN
5166 ILCHESTER ROAD
ELLCOTT CITY, MD 21043
410-788-8539

PROJECT: GAULDIN PROPERTY
NEW BUILDING AND PARKING LOT ADDITION

TITLE
SEDIMENT CONTROL DETAILS
Richardson Engineering, LLC

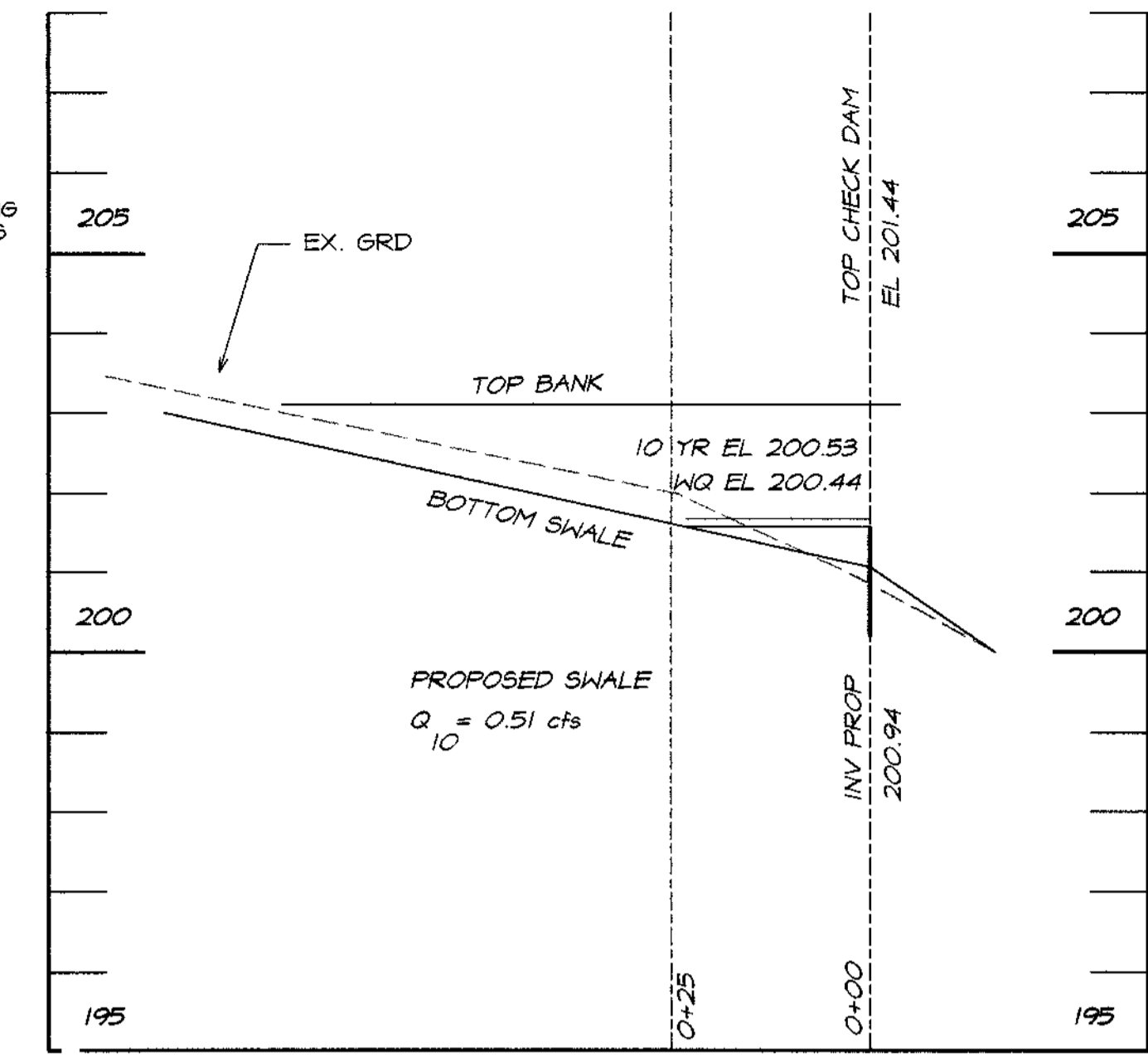
730 W. Padonia Road
Cockeysville, Maryland 21030
Phone: 410-560-1502 Fax: 410-560-0827

CHECKED BY: PCR
DESIGNED BY: PCR
DRAWN BY: PCR
PROJECT NO.: 02043
DATE: 6/08/2003
SCALE: AS SHOWN
DRAWING NO. 4 OF 5
FILE NO. SDP-03-143



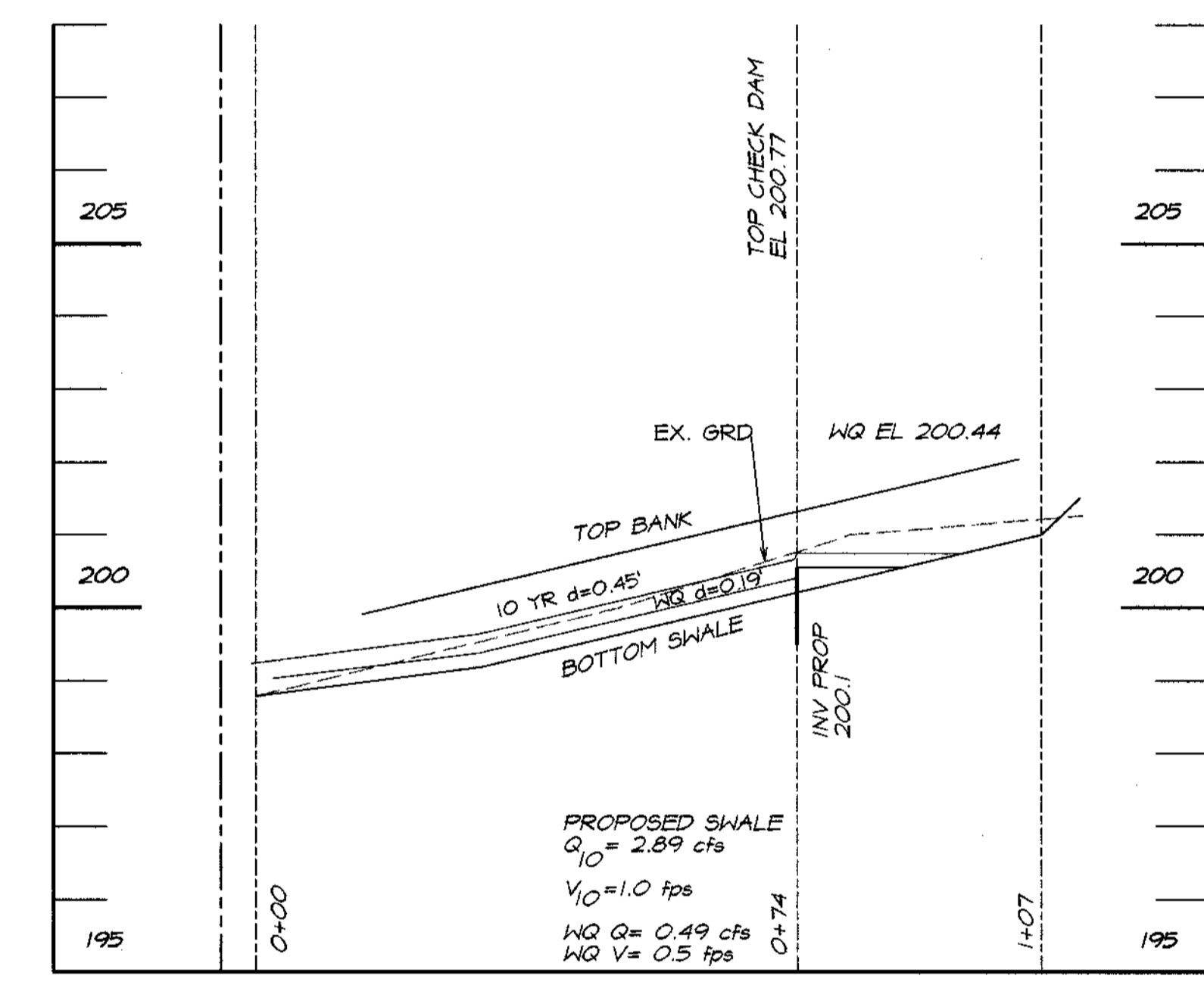
OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS

1. THE OPEN CHANNEL SYSTEM 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 OPEN CHANNEL SHALL BE MOVED A MINIMUM OF AS NEEDED DURING THE GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF LESS THAN 6 INCHES.
3. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
4. VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
5. REMOVE SILT IN THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL WQV.



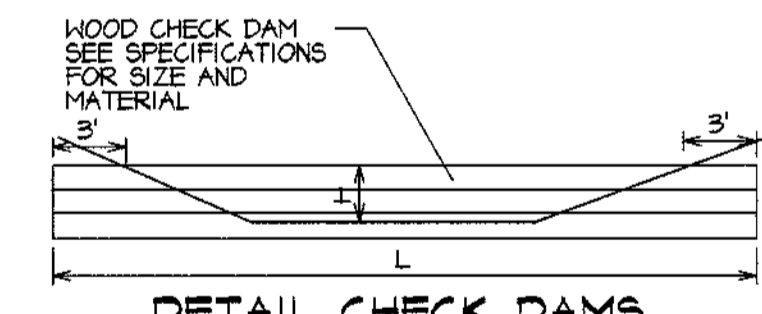
PROFILE SWALE #1

SCALE: HORIZ. : 1"=20'
VERT. : 1"= 2'

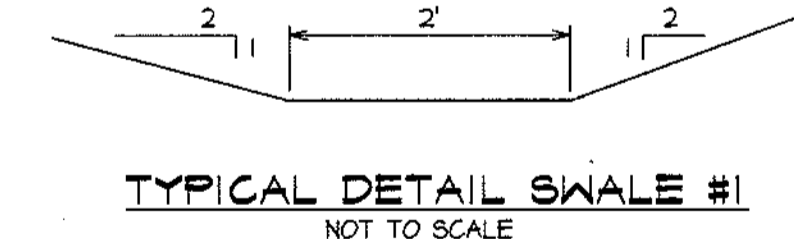


PROFILE SWALE #2

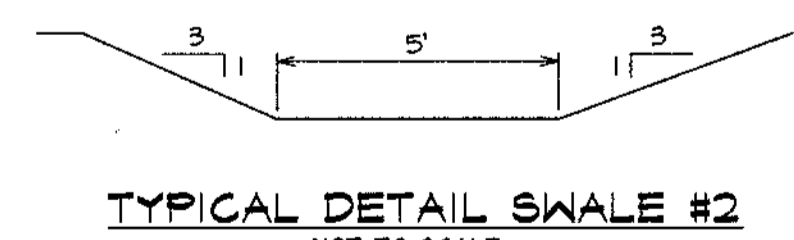
SCALE: HORIZ. : 1"=20'
VERT. : 1"= 2'



DETAIL CHECK DAMS
NOT TO SCALE



TYPICAL DETAIL SWALE #1
NOT TO SCALE



TYPICAL DETAIL SWALE #2
NOT TO SCALE

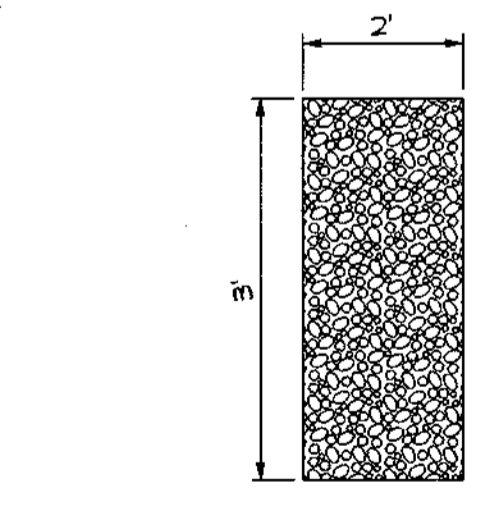
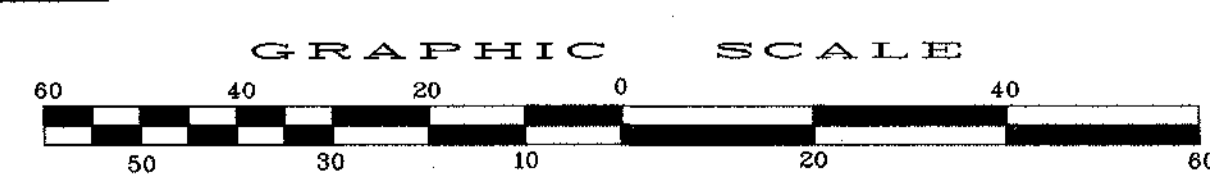
TABLE B3.3 OPEN CHANNEL SYSTEMS AND FILTER STRIP MATERIALS SPECIFICATIONS

Material	USCS: ML, SM, SC	n/a	soil with a higher percent organic content is preferred
dry swale soil	USCS: ML, SM, SC	n/a	soil with a higher percent organic content is preferred
dry swale sand	ASTM C-33 fine aggregate concrete sand	0.02' to 0.04'	
check dam (pressure treated)	AWPA Standard C6	6' by 6' or 8' by 6'	do not coat with creosote; embed at least 3" into side slopes
check dam (natural wood)	Black Locust, Red Hilberry, Cedars, Catalpa, White Oak, Chestnut Oak, Black Walnut	6" to 12" diameter; notch as necessary	do not use the following as these species have a predisposition towards rot: Ash, Beech, Birch, Elm, Hackberry, hickory, Hickories, Maples, Red and Black Oak, Pines, Poplar, Spruce, Sweetgum, Willow
filter strip sand/ gravel pervious berm	sand: per dry swale sand; gravel: AASHTO M-43	sand: 0.02' to 0.04' gravel: * to 1"	mix with approximately 25% loam soil to support grass cover; see Erosion/retention planting soil notes for more detail.
sea gravel diaphragm and curtain drain	ASTM D 448	varies (No. 6) or (1/ 6" to 3/ 8")	use clean bank - run gravel
underdrain gravel	AASHTO M-43	0.25' to 0.75"	
underdrain	F-750 Type PS-26 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR25	3/ 8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes
Geotextile	Class "C" - apparent opening size (ASTM- D-4751), grab tensile strength (ASTM- D-4632), puncture resistance (ASTM- D-4633)	n/a	
rip rap	per county criteria; if none given, use MSHA Standards and Specs Section 905	size per county DOT requirements based on 10- year design flow	

Design Summary

DESIGN STORM	WQ _v	Re _v	Cp _v	Qp	Qf
REQUIRED	CREDITS	N/A	N/A	N/A	N/A
SWALE NO. 1	221 cf	N/A	N/A	N/A	N/A
SWALE NO. 2	735 cf	N/A	N/A	N/A	N/A

SWALE NO. 1 - ROOFTOP DISCONNECT CREDIT W/ STORAGE FOR DISTANCE, HAZARD CLASS A
SWALE NO. 2 - GRASS CHANNEL CREDIT, HAZARD CLASS A
Rev WILL BE MET IN THE FACILITIES BY CREDIT FOR SWALES



STONE DIAPHRAM SECTION
NOT TO SCALE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/19/04 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 3/23/04 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] 3/23/04 DATE
 DIRECTOR

ADDRESS CHART	
LOT/PARCEL*	STREET ADDRESS
	7045 KIT KAT ROAD

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL			
PLAT * OR L/F	BLOCK *	ZONING	TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
3990/119	4	M2	43	1ST	6012.02
WATER CODE	E-06	SEWER CODE	55202000		

DATE	NO.	REVISION

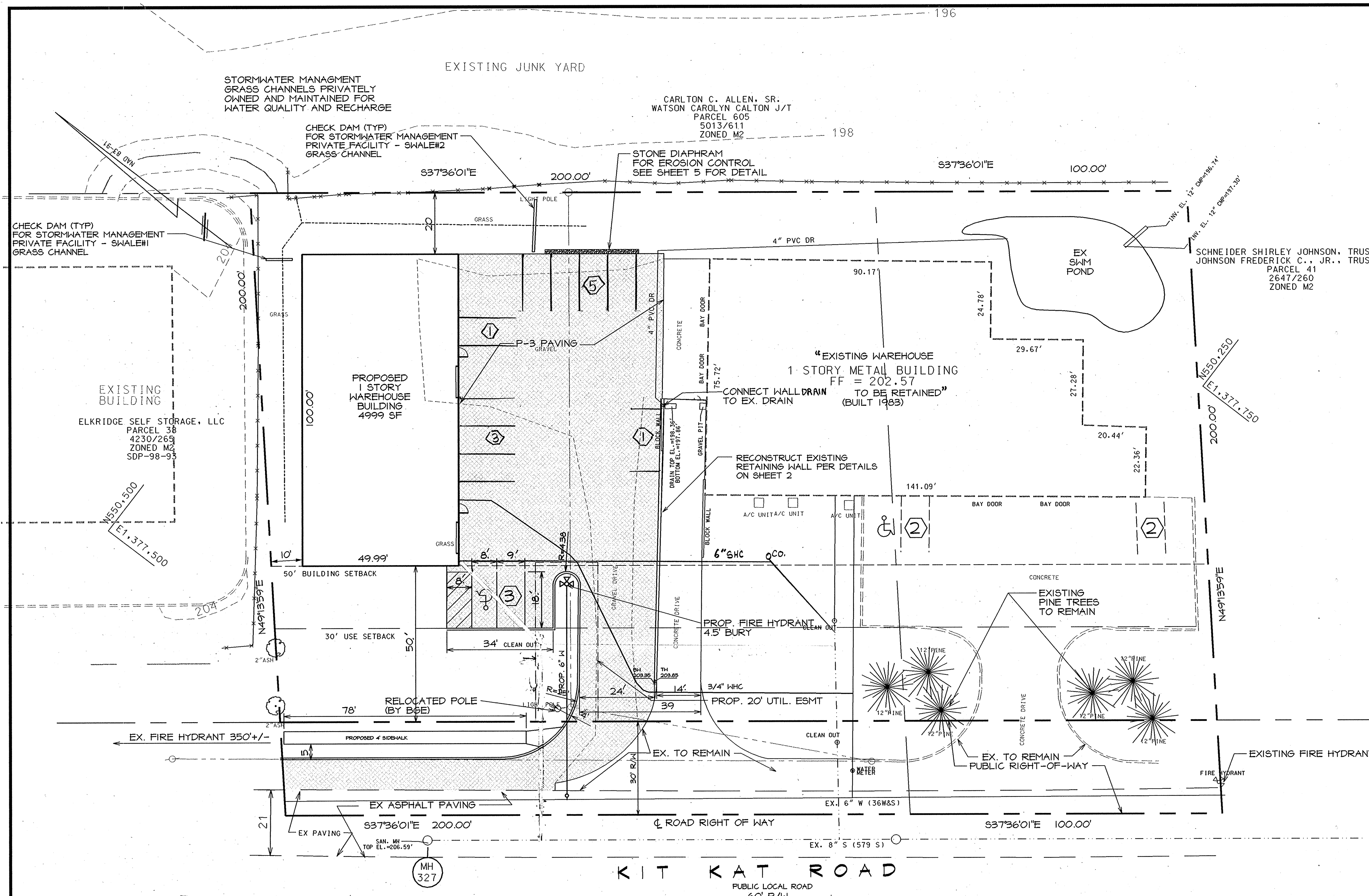
OWNER/DEVELOPER
DONALD & RAE ANN GAULDIN
5166 ILCHESTER ROAD
ELLCOTT CITY, MD 21043
410-788-8539

PROJECT: **GAULDIN PROPERTY**
NEW BUILDING AND PARKING LOT ADDITION

TITLE
DRAINAGE AREA MAP
PROFILES & DETAILS

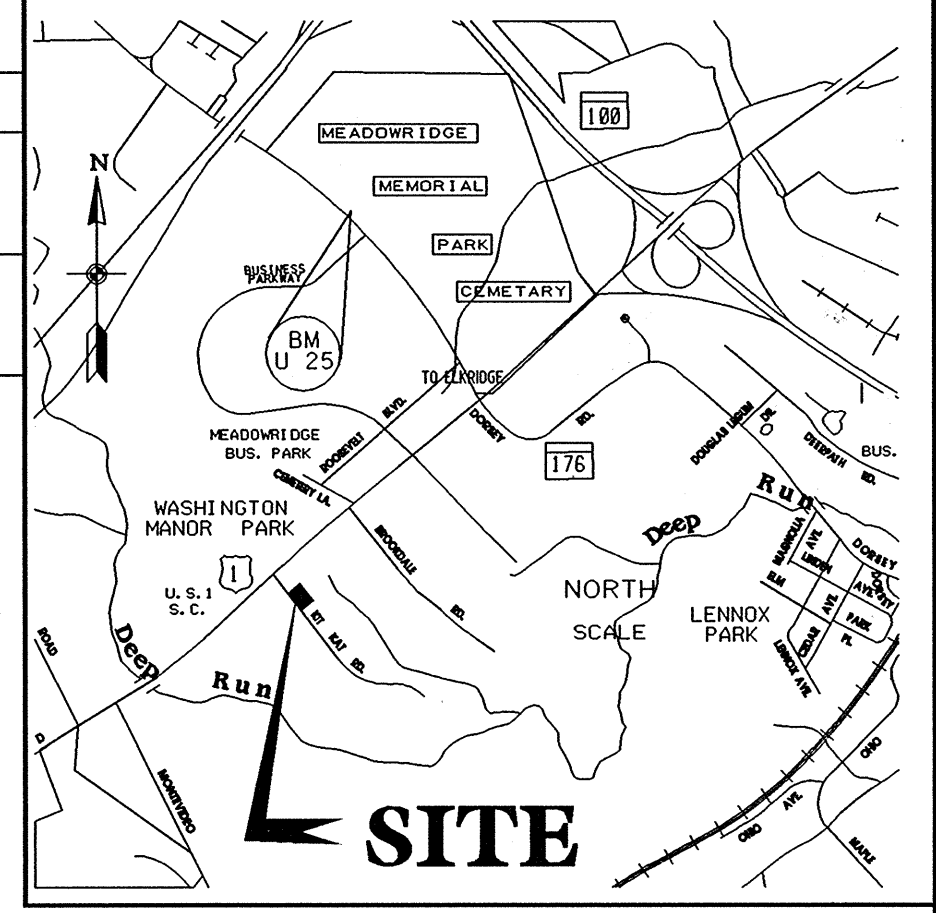
Richardson Engineering, LLC
136 W. Potomac Road
Cockeysville, Maryland 21030
Phone: 410-560-1502 Fax: 410-560-0827

CHECKED BY: PCR
DESIGNED BY: PCR
DRAWN BY: PCR
PROJECT NO.: 02043
DATE: 6/08/2003
SCALE: 1" = 20'
DRAWING NO. 5 OF 5
FILE NO. SDP-03-143



PLAN
SCALE 1"=20'

GPS SURVEY CONTROL POINTS			
NO.	NORTHING	EASTING	ELEV.
60RF GPS N	568,014.98	1,365,020.35	514.664
U 25	554,701.88	1,377,647.62	215.393



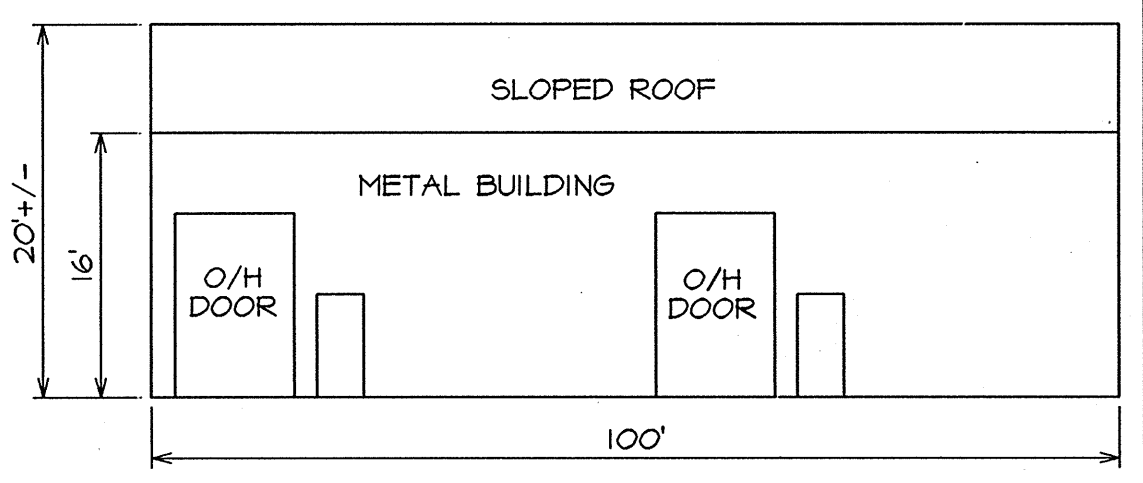
VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES :

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 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.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 - MISS UTILITY 800-257-7777
 - CIP TELEPHONE 410-725-9976
 - HOWARD COUNTY BUREAU OF UTILITIES 410-992-2366
 - ATTI CABLE LOCATION DIVISION 410-393-3553
 - BALTIMORE GAS & ELECTRIC CO. 410-685-0123
 - STATE HIGHWAY ADMINISTRATION 410-531-5533
 - HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION 24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK 410-313-1660
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TRASH PICKUP IS PRIVATE FOR THIS SITE.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL 02.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS).
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEWER AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOMESTIC PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHT AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- FOR THE EXACT LOCATION AND DEPTH OF THE EXISTING WATER AND SEWER MAINS, THE CONTRACTOR SHALL DIG TEST PITS AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING ON-SITE EXTERIOR LIGHTING SHALL BE MODIFIED OR REPLACED IN ORDER TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF ZONING SECTION 154, AND ALL PROPOSED ON-SITE EXTERIOR LIGHTING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SAME ZONING SECTION. ALL PROPOSED OUTDOOR LIGHTING SHALL BE ATTACHED TO THE EXISTING OR PROPOSED STRUCTURES LOCATED ON THE SITE.
- THERE ARE NO FLOOD PLAINS OR WETLANDS ON THIS SITE.
- PARKING APPROVED IN ACCORDANCE WITH ZONING SECTION 153.D.
- EXISTING STORM-WATER MANAGEMENT FACILITY IS PRIVATELY OWNED AND MAINTAINED. STORM-WATER MANAGEMENT FOR THIS CONSTRUCTION IS DONE BY ROOFTOP DISCONNECT AND GRASS SHALES THAT DISCHARGE TO THE NORTH EDGE OF THE SITE.
- THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL, SINCE THIS SITE HAS HAD A PREVIOUS SITE PLAN SUBMISSION WHICH SHOWS AN AREA OF DISTURBANCE FOR THE ENTIRE SITE (SDP 82-149 & 83-96). *Exemption per Sec. 16.1202(c)(1)(ii).*
- THIS SITE PLAN CONFORMS TO THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- 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.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE MARYLAND STATE GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. GPS MONUMENTS SHOWN ABOVE USED FOR CONTROL.
- WATER IS PUBLIC (CONTRACT 36-HMS) SEWER IS PUBLIC (CONTRACT 579S)
- A TRAFFIC STUDY PREPARED BY STREET TRAFFIC STUDIES, LTD WAS APPROVED MAY 15, 2005.
- FIELD RUN TOPO TAKEN FROM SURVEY BY BRIAN DIETZ, JULY 2002.
- LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THE LANDSCAPE PLAN SHEET FOR THIS SITE DEVELOPMENT PLAN. SURETY IN THE AMOUNT OF \$2160.00 SHALL BE POSTED WITH THE DEVELOPER'S AGREEMENT.

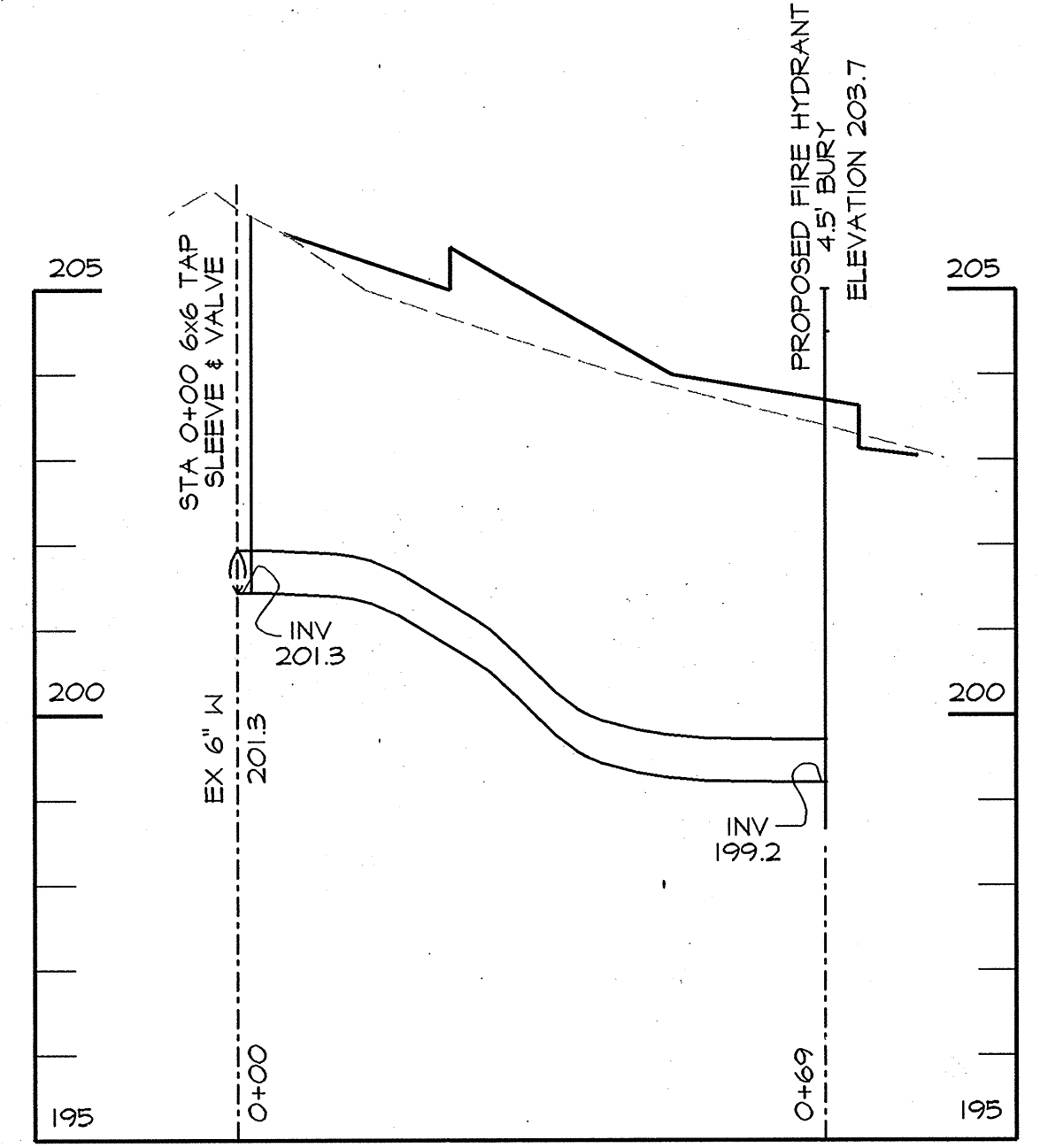
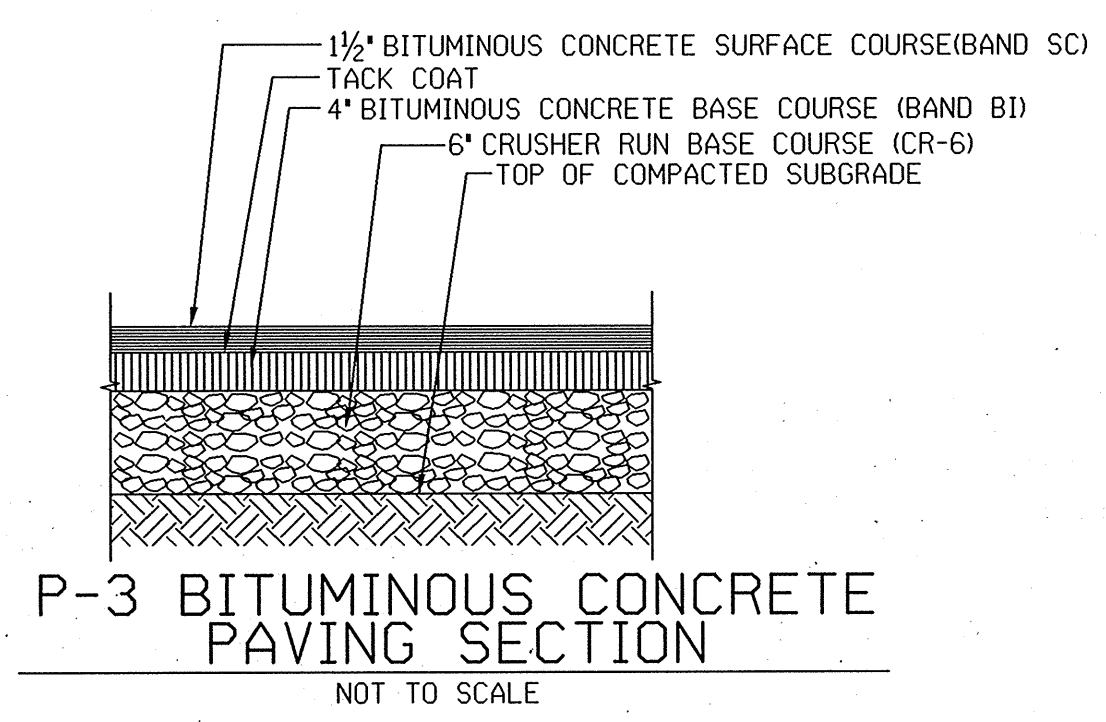
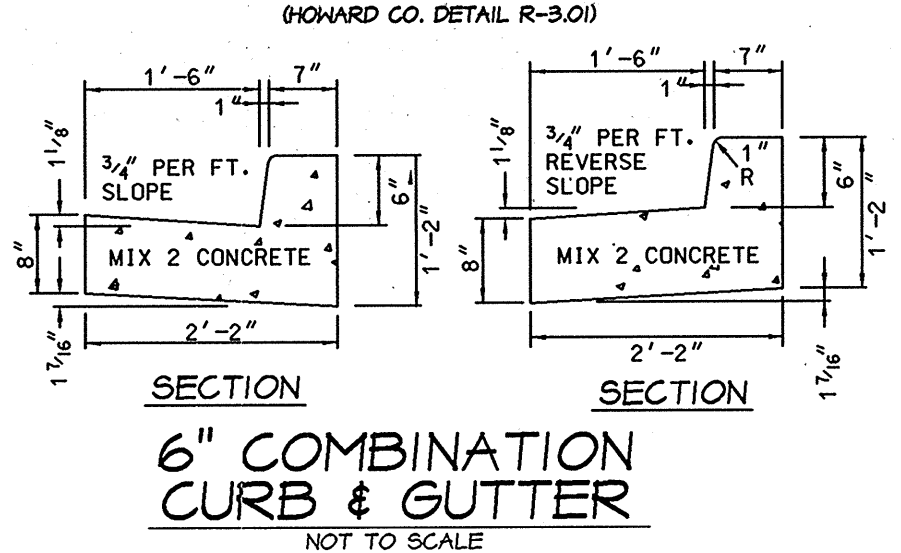
SITE ANALYSIS DATA :

- Total Area of Lot : 1.169 AC. +/-
Limit of Disturbance : 0.50 AC. +/-
- Purpose of this SDP: New Building & Parking Lot Expansion
Existing Use : Warehouse
Proposed Use : Warehouse
- Owner/Developer : Donald & Rae Ann Gauldin
5166 Ilchester Road
Ellicott City, MD 21043-7006
- Existing Zoning : M-2
- Existing Building : 8,789 SF
Proposed Building : 4,999 SF
- Required Setbacks : Street: 50'
Side: 0'
Rear: 0'
- Parking Computations : Existing Parking 4 Spaces
Number of Parking Spaces Required : New Warehouse - 4,999 SF @ 2.5/1000 SF=13 SPACES
Number of Parking Spaces Provided : 17 Spaces (Inc. 1 HC Spaces).
- Open Space : 44842 SF / 64102 SF = 70%
- Floor Area Ratio : 13,788 SF / 64102 SF = 0.21
- Applicable DPZ Ref. : SDP-82-146, SDP-83-96
- The subject property is zoned M-2 per the 10/19/93 Comprehensive Zoning Plan.
- Approval of this plan does not address design issues regarding the adequacy of the existing driveway entrance to the loading dock.

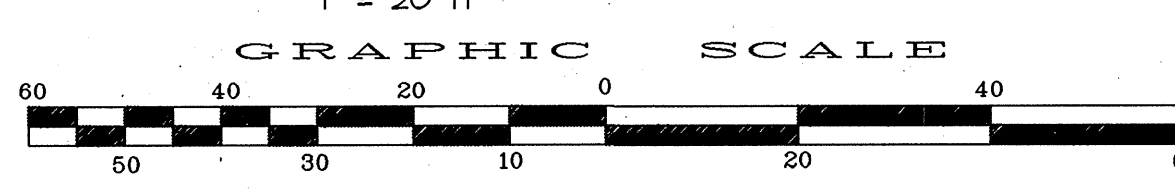


BUILDING ELEVATION
NOT TO SCALE

DESIGN NOTES:
ALTERNATE INCONTAINABLE CEMENT CONCRETE CURB SECTIONS MAY BE USED WHERE SIDEWALKS ARE NOT CURRENTLY REQD OR REASONABLY ANTICIPATED.



PROFILE PROPOSED FIRE HYDRANT
SCALE: 1" = 2' V, 1" = 20' H



SHEET INDEX :

- SHEET 1 SITE PLAN
- SHEET 2 LANDSCAPE PLAN.
- SHEET 3 GRADING & SEDIMENT CONTROL PLAN.
- SHEET 4 SEDIMENT CONTROL DETAILS.
- SHEET 5 D.A. MAP, PROFILES & SITE DETAILS

ADDRESS CHART	
LOT/PARCEL*	STREET ADDRESS
39	7045 KIT KAT ROAD

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL	TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
N/A		39	43	1ST	6012.02
PLAT * OR L/F	BLOCK *	ZONING	TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
3990/119	4	M2	43	1ST	6012.02
WATER CODE	SEWER CODE				
E-06	35202000				

8/30/04	1	SHC REVISED
DATE	NO.	REVISION
OWNER/DEVELOPER DONALD & RAE ANN GAULDIN 5166 ILCHESTER ROAD ELLICOTT CITY, MD 21043 410-788-8539		
PROJECT: GAULDIN PROPERTY NEW BUILDING AND PARKING LOT ADDITION		
TITLE SITE PLAN		
<i>Richardson Engineering, LLC</i>		
730 W. Padonia Road Cockeysville, Maryland 21030 Phone: 410-560-1502 Fax: 410-560-0827		
		CHECKED BY: PCR
		DESIGNED BY: PCR
		DRAWN BY: PCR
		PROJECT NO.: 02043
		DATE: 6/08/2003
		SCALE: 1" = 20'
		DRAWING NO. 1 OF 5
2/27/04 DATE		FILE NO. SDP-03-143

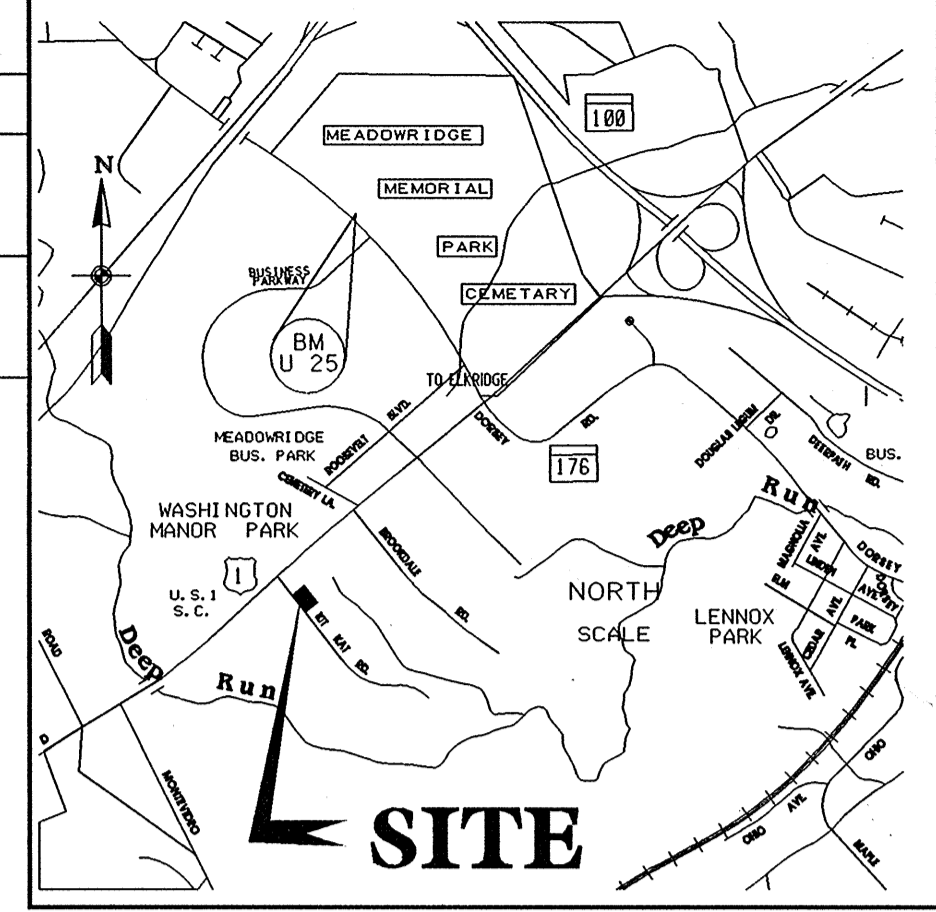
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Richardson 3/19/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

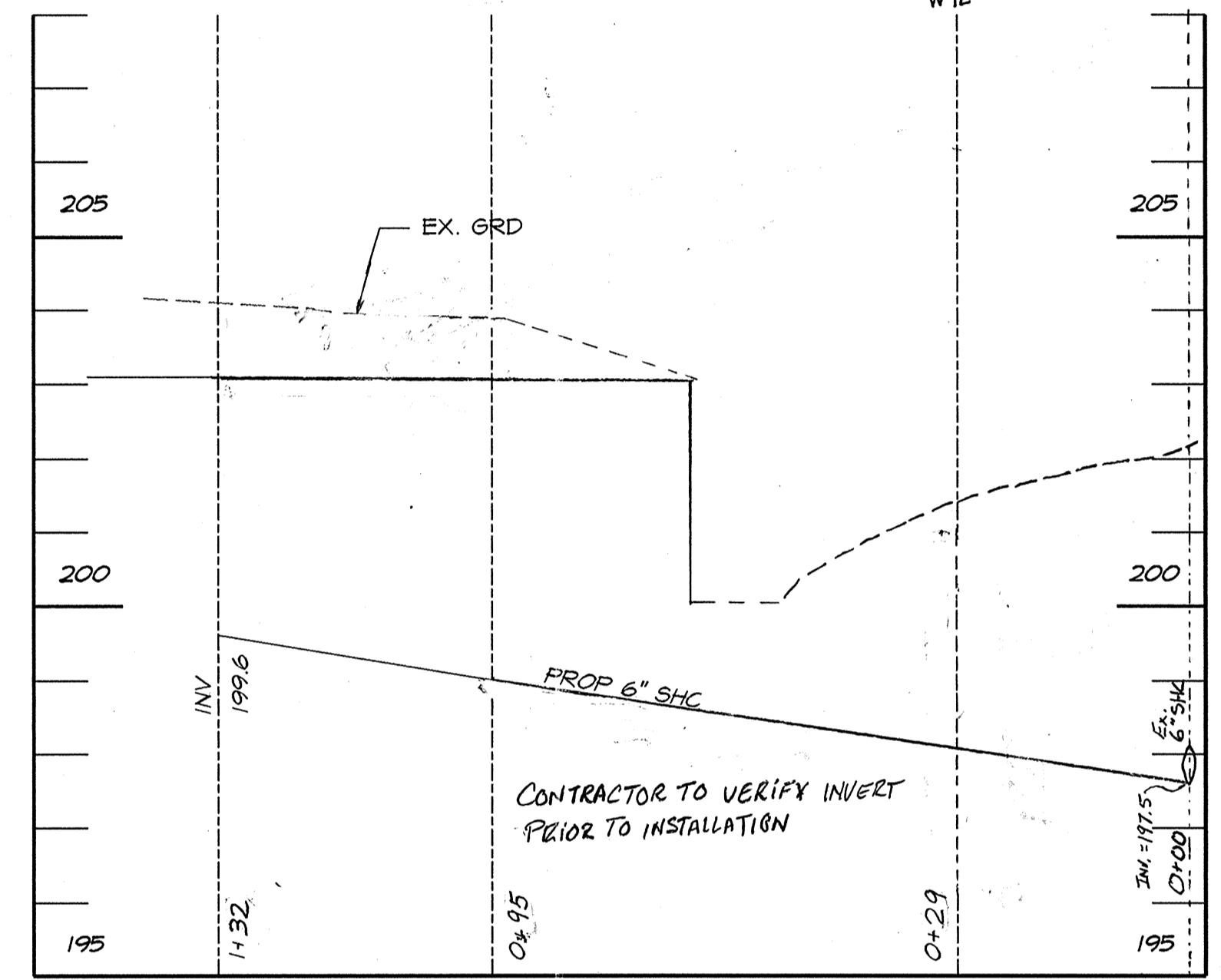
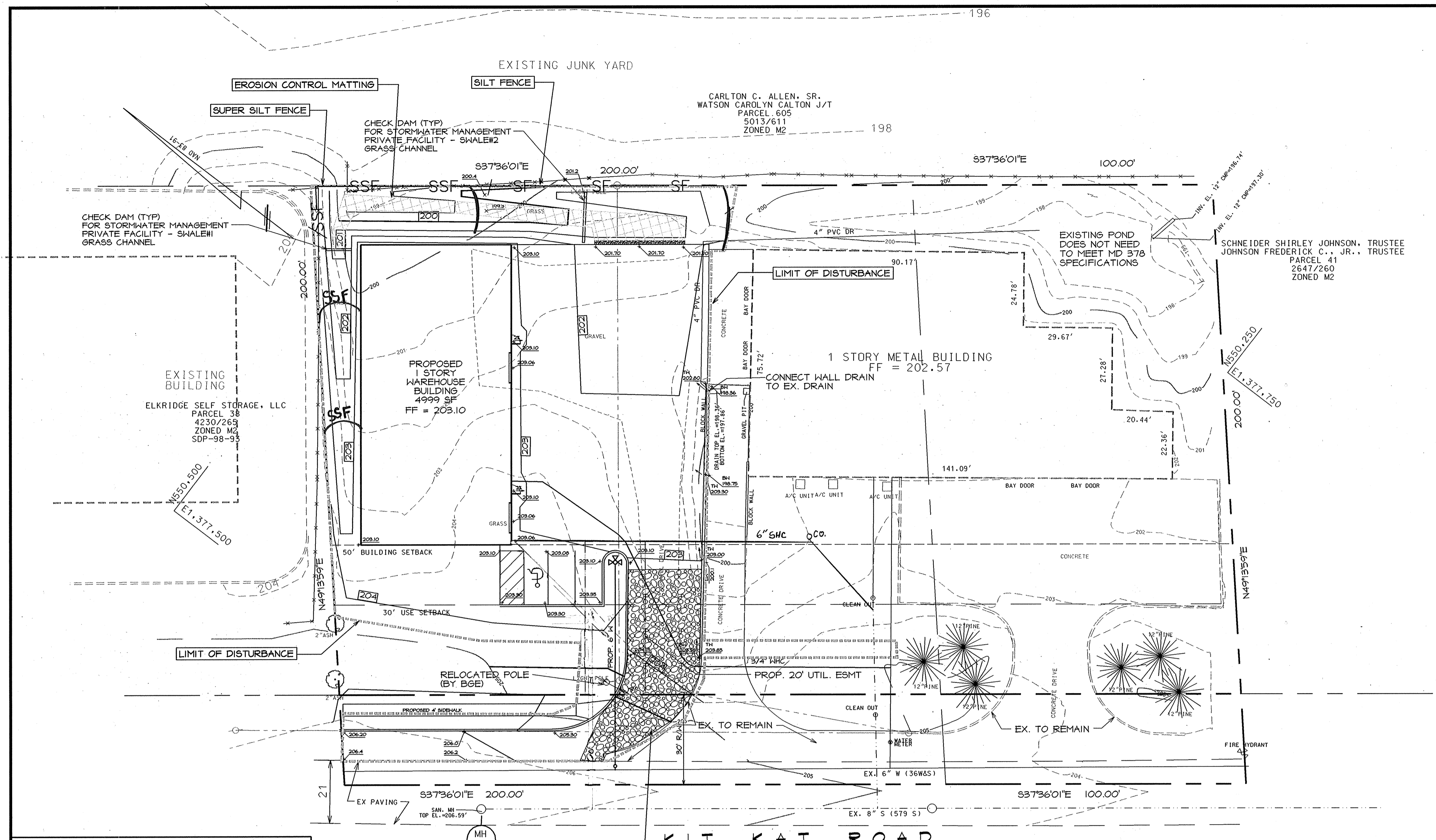
Handa 3/23/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Wagler 3/23/04
DIRECTOR DATE

GPS SURVEY CONTROL POINTS			
NO.	NORTHING	EASTING	ELEV.
GORF GPS N	568,014.98	1,365,020.35	514.664
U 25	554,701.88	1,377,647.62	215.393



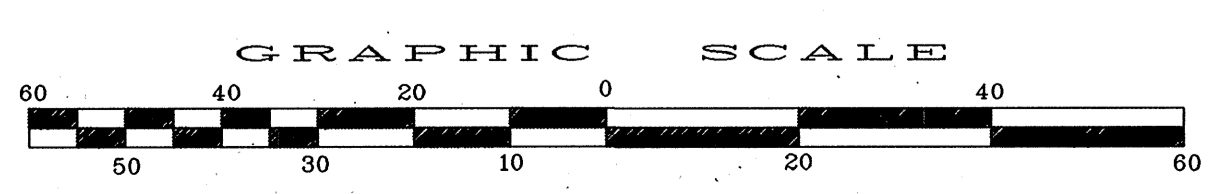
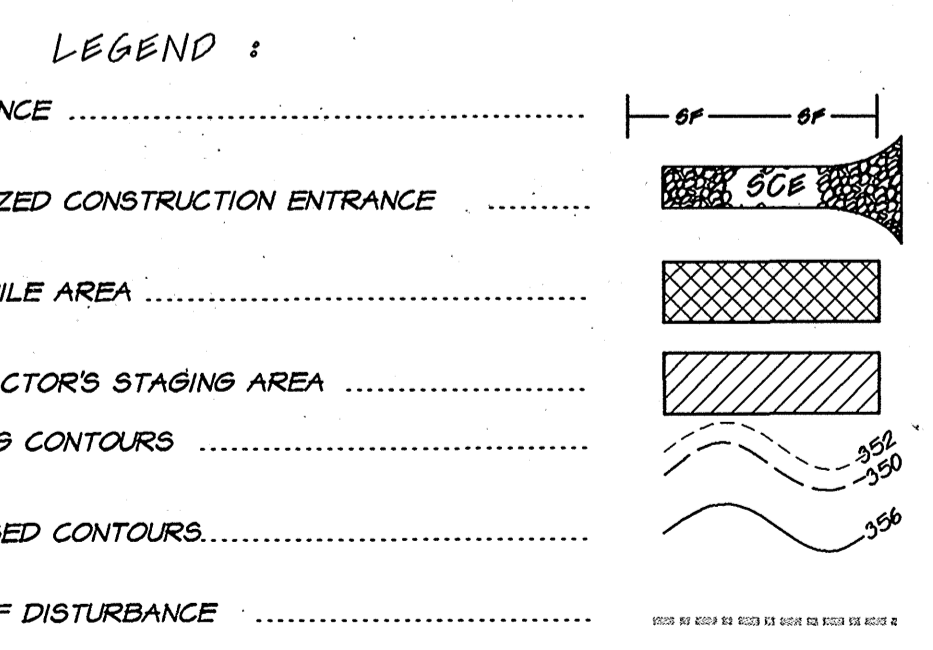
VICINITY MAP
SCALE: 1"=2000'



PROFILE SANITARY CONNECTION
SCALE: HORIZ. : 1"=20'
VERT. : 1"=2'

GENERAL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction 410-315-1855.
- 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 and revisions thereto.
- Following initial soil disturbance or redistribution, 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 seeding, sod, temporary seeding, and mulching. Sec. G Temporary stabilization with mulch alone can 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.
- Site Analysis:
Total Area of Site 50,921 SF / 1.17 Acres
Area Disturbed 21,977 SF / 0.50 Acres
Area to be roofed or paved 16,777 SF / 0.38 Acres
Area to be vegetatively stabilized 5,201 SF / 0.12 Acres
Total Cut 200 Cu. yds
Total Fill 200 Cu. yds
Offsite waste/borrow area location- A site with a currently active grading permit.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 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.



SEQUENCE OF CONSTRUCTION

- Obtain a Grading Permit through the Department of Inspections Licenses and Permits.
- Notify Howard County Sediment Control Division, (410-315-1855) at least 48 hours prior to beginning work.
- Clear and grub for sediment and erosion control measures or devices. Install silt fence and stabilized construction entrance. 1 day
- Notify Howard County Sediment Control Division inspector upon completion of said installation.
- With the approval of Howard County Sediment Control Division Inspector, clear and grub remainder of site. 1 day
- Rough grade site and temporarily stabilize any areas not to be worked. 3 days
- Begin building construction. 30 days
- Install water and sewer connections for building. 3 days
- Fine grade for parking lot. 1 day
- Construct curb, install base paving and fine grade and permanently stabilize the site. 1 week
- Grade for water quality swales and landscaping. 1 week
- With the approval of Howard County sediment control inspector, remove all sediment and erosion control devices and permanently stabilize any remaining area

BY THE DEVELOPER
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN 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 DISTRICT.

Donald Gauldin
DEVELOPER
DATE: 2-26-04

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John K. Robinson
ENGINEER
DATE: 2/27/04

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Jim Myers
US NATURAL RESOURCES SERVICE
DATE: 3/18/04

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John K. Robinson
DATE: 3/18/04

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John C. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 3/19/04

Cindy ...
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 3/23/04

Mark ...
DIRECTOR
DATE: 3/23/04

8/30/04	1	SHC REVISED
DATE	NO.	REVISION

OWNER/DEVELOPER
DONALD & RAE ANN GAULDIN
5166 ILCHESTER ROAD
ELLCOTT CITY, MD 21043
410-788-8539

PROJECT: GAULDIN PROPERTY
NEW BUILDING AND PARKING LOT ADDITION

TITLE
GRADING & SEDIMENT CONTROL PLAN

Richardson Engineering, LLC

730 W. Padonia Road
Cockeysville, Maryland 21030
Phone: 410-560-1502 Fax: 410-560-0827

CHECKED BY: PCR
DESIGNED BY: PCR
DRAWN BY: PCR
PROJECT NO.: 02043
DATE: 6/08/2003
SCALE: 1" = 20'
DRAWING NO. 3 OF 5

ADDRESS CHART					
LOT/PARCEL*	STREET ADDRESS				
39	7045 KIT KAT ROAD				
PERMIT INFORMATION CHART					
SUBDIVISION NAME N/A	SECTION/AREA	LOT/PARCEL 39			
PLAT * OR L/F 3990/119	BLOCK * 4	ZONING M2	TAX/ZONING MAP 43	ELECTION DIST 1ST	CENSUS TRACT 6012.02
WATER CODE E-06	SEWER CODE 55202000				