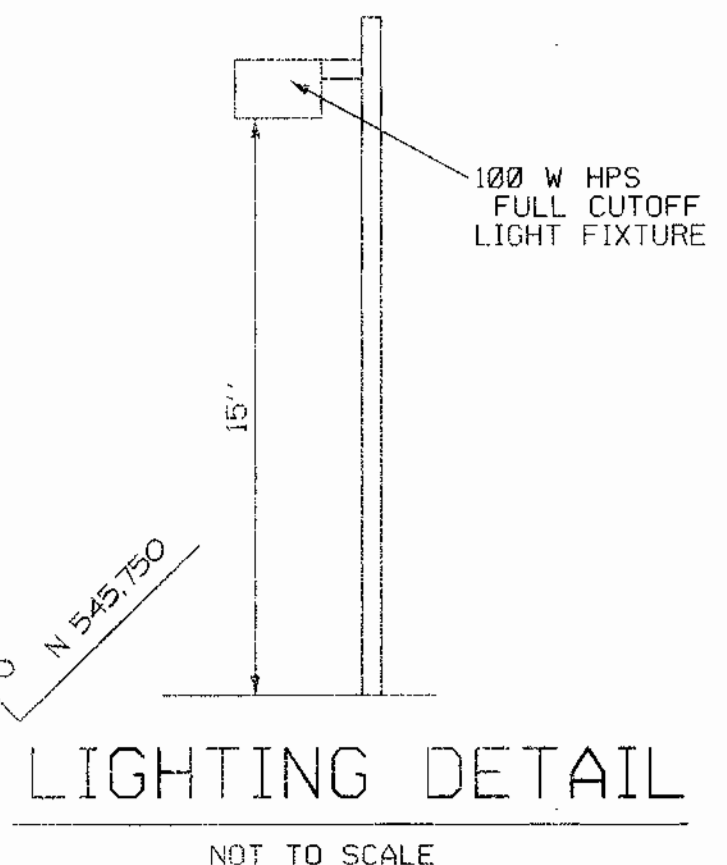


**LEGEND :**

---	EX. PROPERTY LINE
---	EX. 2' CONTOUR
---	EX. 10' CONTOUR
---	EX. GAS
---	EX. SANITARY
---	EX. STORM DRAIN
---	EX. WATER
---	EX. WATER METER
---	EX. TELEPHONE
---	EX. CURB
---	EX. ELECT. CONDUIT
---	EX. LIGHT POLE
---	EX. FENCE LINE
---	No. OF PARKING SPACES
---	EX. WOODS LINE / VEGETATION
---	EX. TREE
---	PROPOSED PAVING
---	TRAFFIC FLOW
---	PROP. LIGHT POLE

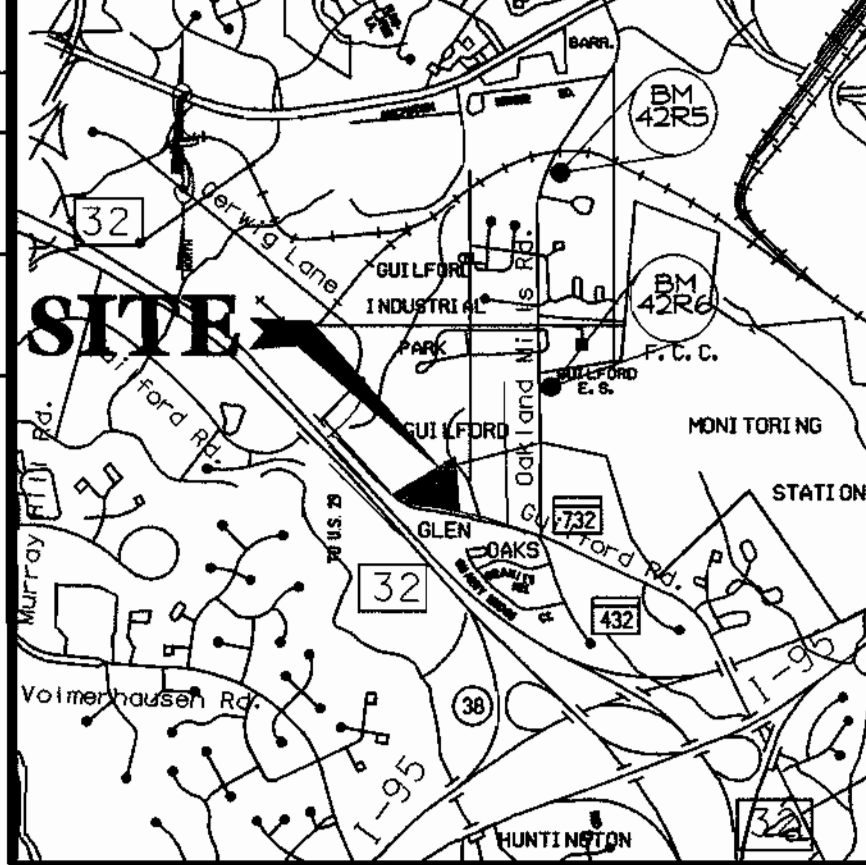
NO GRADING OR CONSTRUCTION IS PERMITTED WITHIN 30' OF THE EXISTING CEMETARY PER SECTION 16.118(G) OF THE SUBDIVISION REGULATIONS EXCEPT AS APPROVED IN A WAIVER PETITION

NOTE: ON-SITE LIGHTING SHALL BE DIRECTED DOWN & AWAY FROM ADJOINING PROPERTY & STREETS. CONTRACTOR TO INSTALL DIRECT BURIED CABLE, TYPE UFMB (1) SINGLE CONDUCTOR IN PVC FROM LIGHTS TO BUILDING PANEL.



**HOWARD COUNTY CONTROL POINTS**

NO.	NORTHINGS	EASTING	ELEV.
42R5	548,777.06	1360360.97	391.54
42R6	546,822.09	1360340.65	389.02



- 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 TO EXISTING UTILITIES BY THE 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
CHP TELEPHONE	410-725-9976
HOWARD COUNTY BUREAU OF UTILITIES	410-992-2866
AT&T CABLE LOCATION DIVISION	410-998-3553
BALTIMORE GAS & ELECTRIC CO.	410-685-0123
STATE HIGHWAY ADMINISTRATION	410-531-5553
HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION	410-319-1880
  - 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 BEDDINGS SHALL BE AS SHOWN IN DETAIL 62.01 (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.
  - THERE ARE NO FLOOD PLAINS OR WETLANDS ON THIS SITE.
  - PARKING APPROVED IN ACCORDANCE WITH ZONING SECTION 133.D.B.
  - STORMWATER MANAGEMENT FACILITY IS PRIVATELY OWNED AND MAINTAINED.
  - THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE IT WILL DISTURB LESS THAN 40,000 SF OF FORESTED AREA ON A SINGLE PARCEL AND HAS SUBMITTED PRIOR TO DECEMBER 17, 2001.
  - THIS SITE IS LISTED IN THE MARYLAND HISTORICAL TRUST SITE NO. HO-492, OLD GUILFORD BAPTIST CHURCH.
  - 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 HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HO. CO. MONUMENTS 42R5 & 42R6
  - WATER IS PUBLIC (CONTRACT 178-W) SEWER IS PUBLIC (CONTRACT 609-W)
  - A TRAFFIC STUDY PREPARED BY RICHARDSON ENGINEERING, LLC WAS APPROVED DECEMBER 27, 2001.
  - FIELD RUN TOPO TAKEN FROM SURVEY BY C. MILLER OCT. 2001.

- SITE ANALYSIS DATA :**
- Total Area of Lot : 1.472 AC. +/-  
Limit of Disturbance : 0.32 AC. +/-
  - Purpose of the SDP: Parking Lot Expansion and To Restrip Existing Lot  
Existing Use : CHURCH & ADULT DAY CARE  
Proposed Use : CHURCH & ADULT DAY CARE
  - Owner/Developer : ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH  
9405 GUILFORD RD.  
COLUMBIA, MD 21046
  - Existing Zoning : R-12
  - Existing Building : 4,786 SF  
Proposed Building : NO BUILDING ADDITION IS PLANNED AT THIS TIME.
  - Required Setbacks : Front: 30'  
Side: 75'  
Rear: 30'  
Use Other Than Structure: 20'
  - Parking Computations : Existing Parking not striped.  
Number of Parking Spaces Required : 100 Seats @ 1/3 Seats = 33 SPACES  
Number of Parking Spaces Provided : 41 Spaces  
(Inc. 2 HC Spaces).
  - Open Space : 44842 SF / 64102 SF = 70%
  - Floor Area Ratio : 4786 SF / 64102 SF = 0.07
  - Applicable DPZ Ref. : BA Case No. 01-16E Granted August 8, 2001
    - The Conditional Use shall apply only to the proposed use as described in the petition and as depicted on the Conditional Use plan submitted on March 14, 2001 with the petition or as may be revised by the Board, and not to any other activities, uses, or structures on the Property.
    - The Petitioner shall immediately provide a landscaping buffer of the type required by the Howard County Landscape Manual along the border of the parking lot facing the homes in the Oak Ridge Homeowner's Assoc.
    - The Petitioner shall only expand the parking lot in accordance with an approved Site Development Plan, and with approval by the Board of Appeals for an expansion of a non-conforming use.
    - The Petitioner shall connect to public water and sewer by January 14, 2002.

- WP-00-103 Per Section 16.155(a)(X) Granted June 30, 2000
- The driveway shall be designed in compliance with the R-12 Zoning Regulations and Zoning Section 128.A(1)(b). This Division suggests one of the following options: 1) eliminate the driveway at the end of the ramp, or 2) design the driveway in compliance with the required setback allowed Zoning Section 128.A(1)(b), or 3) eliminate the parcel line by recording a deed to remove the line and merge the two existing parcels per Section 16.102(b) of the Subdivision Regulations.
  - The applicant shall submit to the Department of Planning and Zoning a copy of the amended waiver exhibit which addresses changes in design of the driveway prior to applying for the building permit application. A copy of the approved design shall be a record/file copy with the waiver petition file and shall be submitted with the building permit application.
  - WP-02-74 Per Section 16.116(g), withdrawn 4/2002
- All site lighting to conform with Section 134 of the Howard County Zoning Regulations.
- Existing Cemetery To Remain Undisturbed
  - Landscape obligations for this site and surety amount of \$8,920.00 shall be posted with the Developers Agreement.
  - Board of Appeals Approval for this project granted April 2, 2002 for Modification to existing Order BA 01-16E under Case BA 02-09C. Subject to the following:
    - Conditional Use shall apply only to the proposed parking lot expansion as described in the petition and as depicted on the Conditional Use Plan submitted on February 25, 2002 with the petition, or as may be revised by the Board, and not to any other activities, uses, or structures on the property.
    - The Petitioner shall install landscaping meeting the Type D landscape buffer requirements instead of the required Type C landscape buffer along the east property line.
    - Lighting shall be directed down and away from adjoining properties and streets

**SHEET INDEX :**

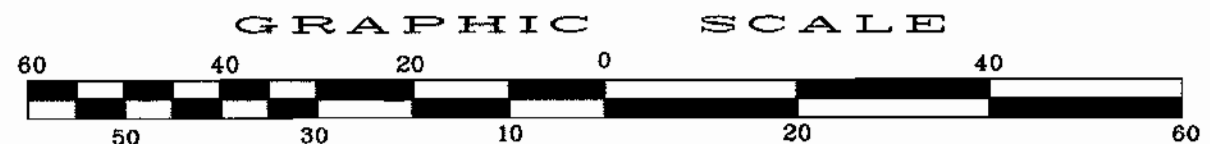
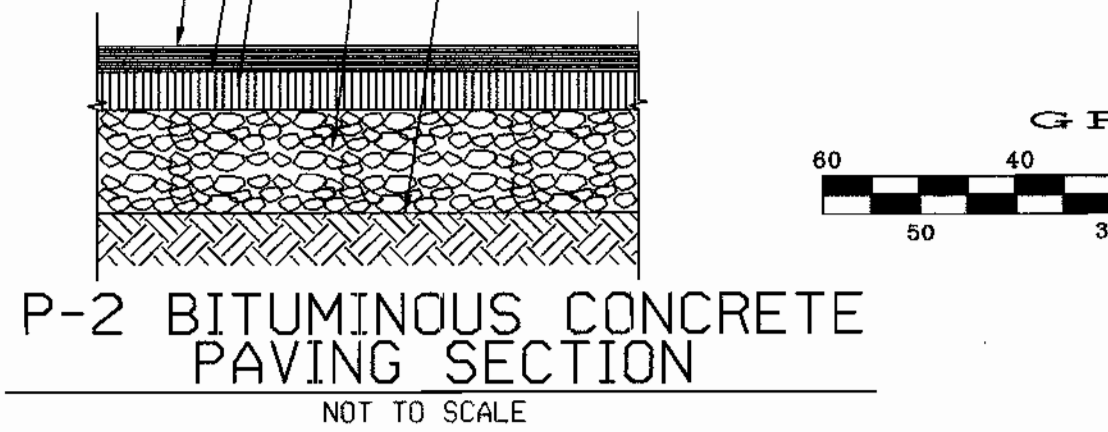
SHEET 1	SITE PLAN & DETAILS.
SHEET 2	LANDSCAPE PLAN.
SHEET 3	GRADING & SEDIMENT CONTROL PLAN.
SHEET 4	SEDIMENT CONTROL DETAILS.
SHEET 5	STORMWATER MANAGEMENT PLAN & DETAILS
SHEET 6	D.A. MAP, PROFILES & SITE DETAILS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*John Drummer* 10/4/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

*Cecily Hammett* 10/8/02  
CHIEF, DIVISION OF LAND DEVELOPMENT

*James R. Rutter* 10/11/02  
DIRECTOR



**ADDRESS CHART**

LOT/PARCEL*	STREET ADDRESS
328 & 329	9405 GUILFORD ROAD

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
N/A	R-12	328 & 329
PLAT * OR L/T	BLOCK *	ZONING
98/119 & 203/195	16	R-12
WATER CODE	SEWER CODE	ELECTION DIST
E-14	5200400	6TH
		CENSUS TRACT
		6061.03

DATE	NO.	REVISION

OWNER/DEVELOPER  
ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH  
9405 GUILFORD ROAD  
COLUMBIA, MARYLAND 21046  
Attn: REV. JACK A. FITZGERALD 301-498-7879

PROJECT: ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH PARKING LOT ADDITION

TITLE  
**SITE PLAN & DETAILS**

**Richardson Engineering, LLC**

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

CHECKED BY: PCR  
DESIGNED BY: PCR  
DRAWN BY: BLB  
PROJECT NO.: 01048  
DATE: 5/20/2002  
SCALE: AS SHOWN  
DRAWING NO. 1 OF 6  
DATE: 5/22/02

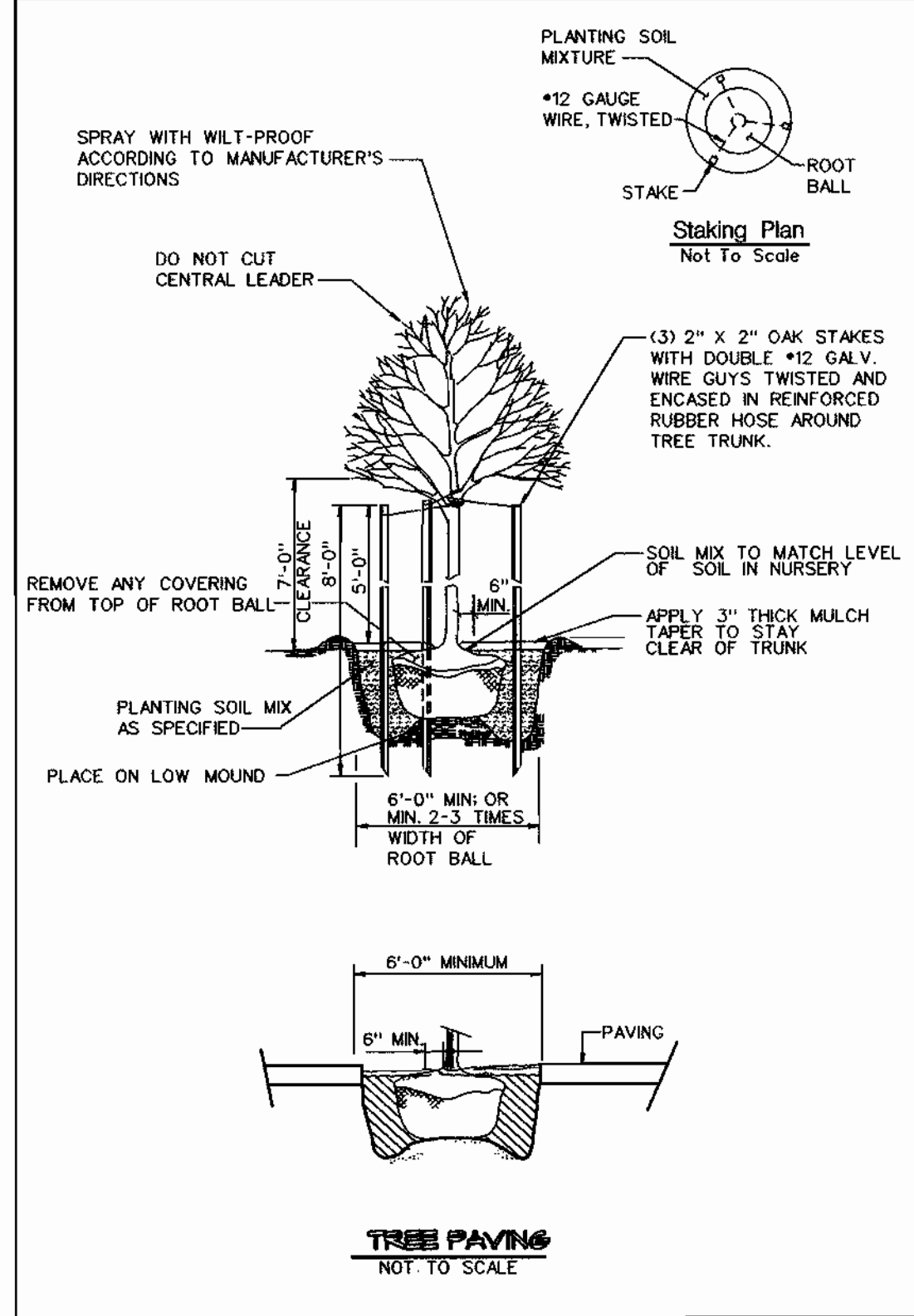
FILE NO. SDP- 02-056

SCHEDULE A  
PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	NON RES. TO RESIDENTIAL	DUMPSTER
LANDSCAPE TYPE	E	D	D
LINEAR FEET OF ROADWAY/FRONTAGE/PERIMETER	105	308	10
CREDIT FOR EXISTING VEGETATION (YES NO. LINEAR FEET)	0	0	0
CREDIT FOR WALL FENCE OR BERRY (YES NO. LINEAR FEET)	0	0	0
NUMBER OF PLANTS REQUIRED			
SHADE TREES	1/40=3*	308/8	1/40=0
EVERGREEN TREES	0	1/10=31	0
SHRUBS	1/4=26	0	1/4=3
NUMBER OF PLANTS PROVIDED			
SHADE TREES	2	6	0
EVERGREEN TREES	4	23	0
OTHER TREES (2:1 SUBSTITUTION)			
SHRUBS (10:1 SUBSTITUTION)	6**	0	FENCED

- \* CREDIT FOR ONE EXIST. SHADE TREE
- \*\* 2 EVERGREEN TREES SUBSTITUTED FOR 10 SHRUBS
- \*\* CREDIT FOR 2 EX. MINOR DECIDUOUS TREES SUBSTITUTED FOR 1 TREE
- \*\* CREDIT FOR ONE EXISTING TREE
- \*\*\* 6 EVERGREENS ARE EXISTING

Tree Planting Detail



SCHEDULE B  
PARKING LOT INTERNAL LANDSCAPING

NUMBER OF VISITOR PARKING SPACES	36
NUMBER OF TREES REQUIRED	2
NUMBER OF TREES PROVIDED	
SHADE TREES	2
OTHER TREES (2:1 SUBSTITUTION)	0
NUMBER OF ISLANDS REQUIRED	2
NUMBER OF ISLANDS PROVIDED	1/200SF=4

APPROVED: DEPARTMENT OF PLANNING AND ZONING

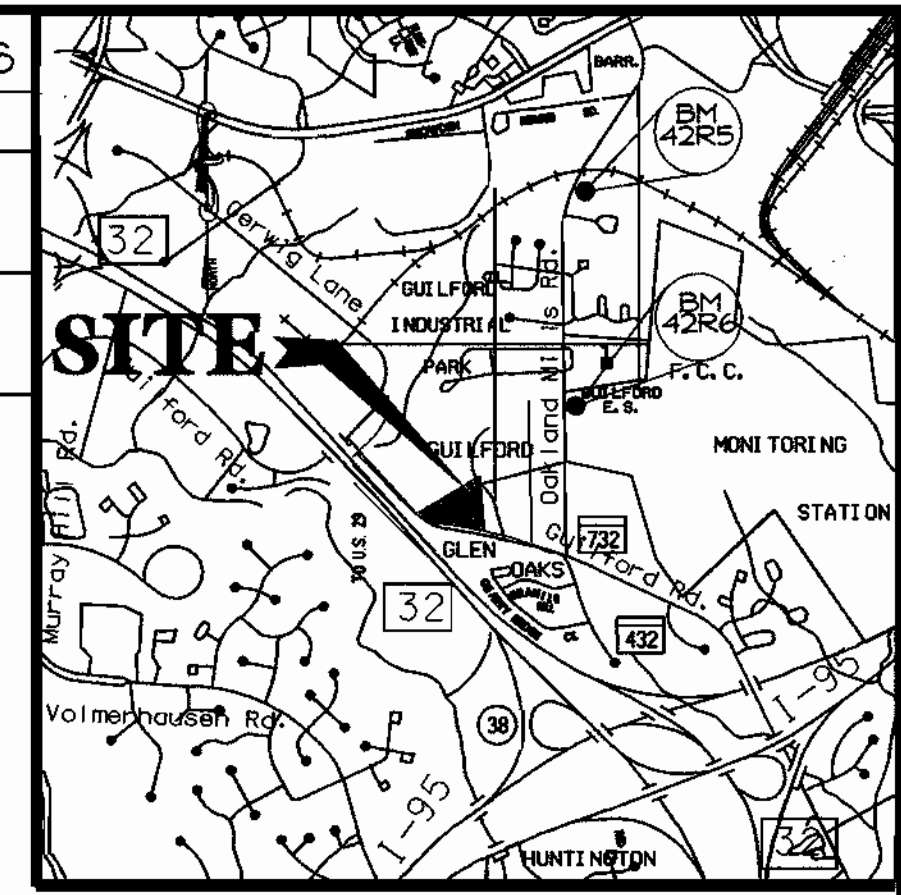
*Adrian Dammann* 10/14/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Curtis Hamer* 10/5/02  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Lucy R. Smith* 10/11/02  
DIRECTOR DATE

HOWARD COUNTY CONTROL POINTS

NO.	NORTHING	EASTING	ELEV.
42R5	548,777.06	1,360,360.97	391.54
42R6	546,822.09	1,360,340.65	389.02



VICINITY MAP  
SCALE: 1"=2000'

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.

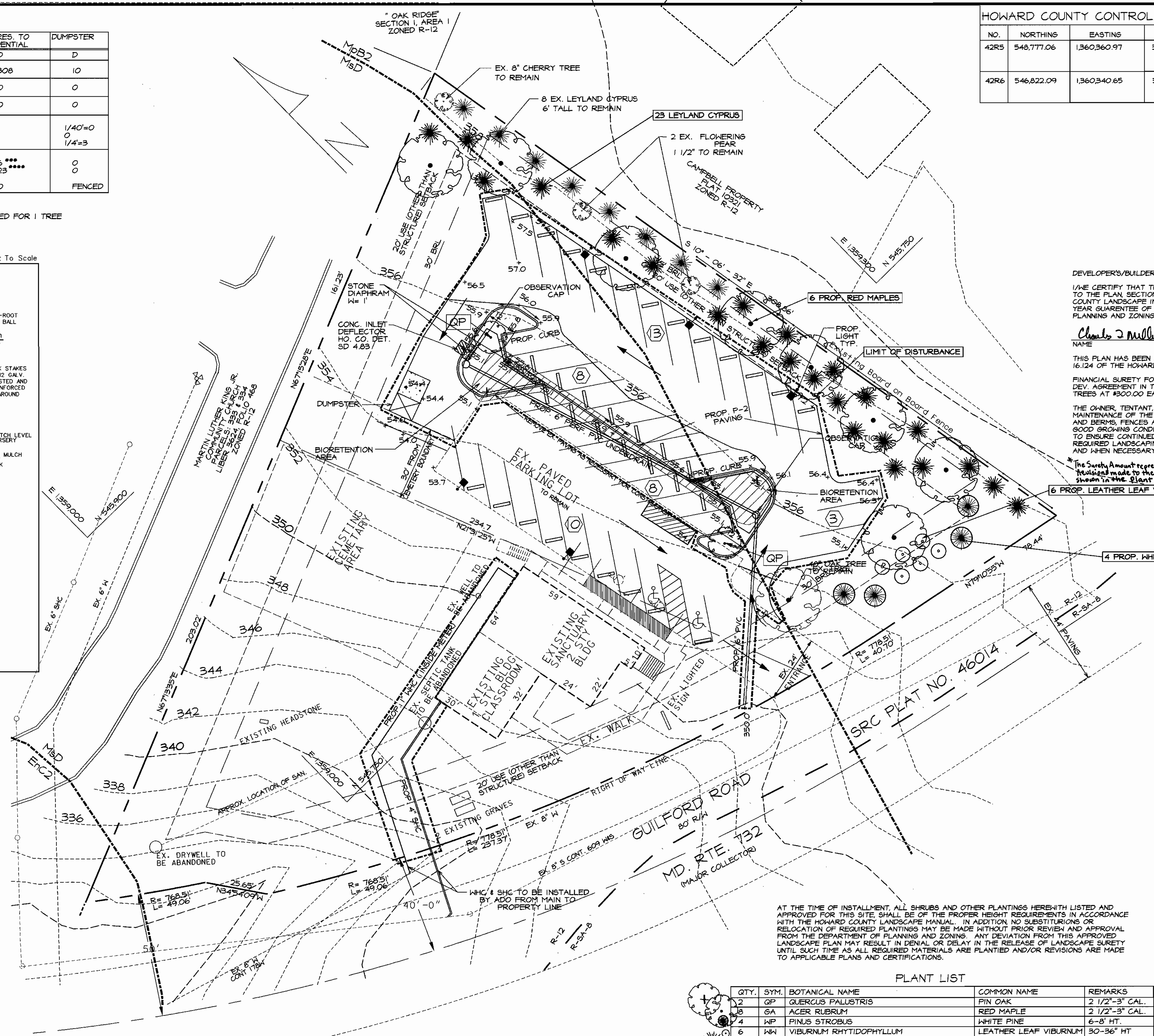
Charles J. Miller, Jr. 13 May 2002  
NAME DATE

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 \$9,300.00. THIS SURETY IS BASED ON 10 SHADE TREES AT \$300.00 EACH, 27 EVERGREEN TREES AT \$150.00 EACH AND 6 SHRUBS @ \$130.00.

THE OWNER, TENANT, 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.

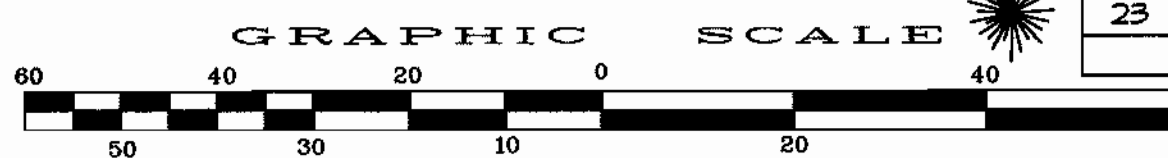
\*The Surety Amount represents the amount bonded under the Developer's Agreement prior to the final made to the number of required plantings. The number of plants shall be as shown in the Plant List.



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
2	QP	QUERCUS PALUSTRIS	PIN OAK	2 1/2"-3" CAL.
3	GA	ACER RUBRUM	RED MAPLE	2 1/2"-3" CAL.
4	WP	PINUS STROBUS	WHITE PINE	6-8' HT.
6	WV	VIBURNUM RHYTIDOPHYLLUM	LEATHER LEAF VIBURNUM	30-36" HT.
23	LC	CUPRESSOCYPARIS LEYLANDI	LEYLAND CYPRUS	6-8' HT.



PERMIT INFORMATION CHART

SUBDIVISION NAME	N/A	SECTION/AREA		LOT/PARCEL	326/329
PLAT * OR L/R	N/A	BLOCK *		ELECTION DIST	6TH
98/119 & 203/195		ZONING	R-12	TAX/ZONING MAP	42
		WATER CODE	E-14	SEWER CODE	5200400

DATE	NO.	REVISION

OWNER/DEVELOPER  
ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH  
9405 GUILFORD ROAD  
COLUMBIA, MARYLAND 21046  
Attn: REV. JACK A. FITZGERALD 301-498-7879

PROJECT: ALBERTA GARY MEMORIAL UNITED  
METHODIST CHURCH PARKING LOT ADDITION

TITLE  
**LANDSCAPE PLAN**  
*Richardson Engineering, LLC*

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

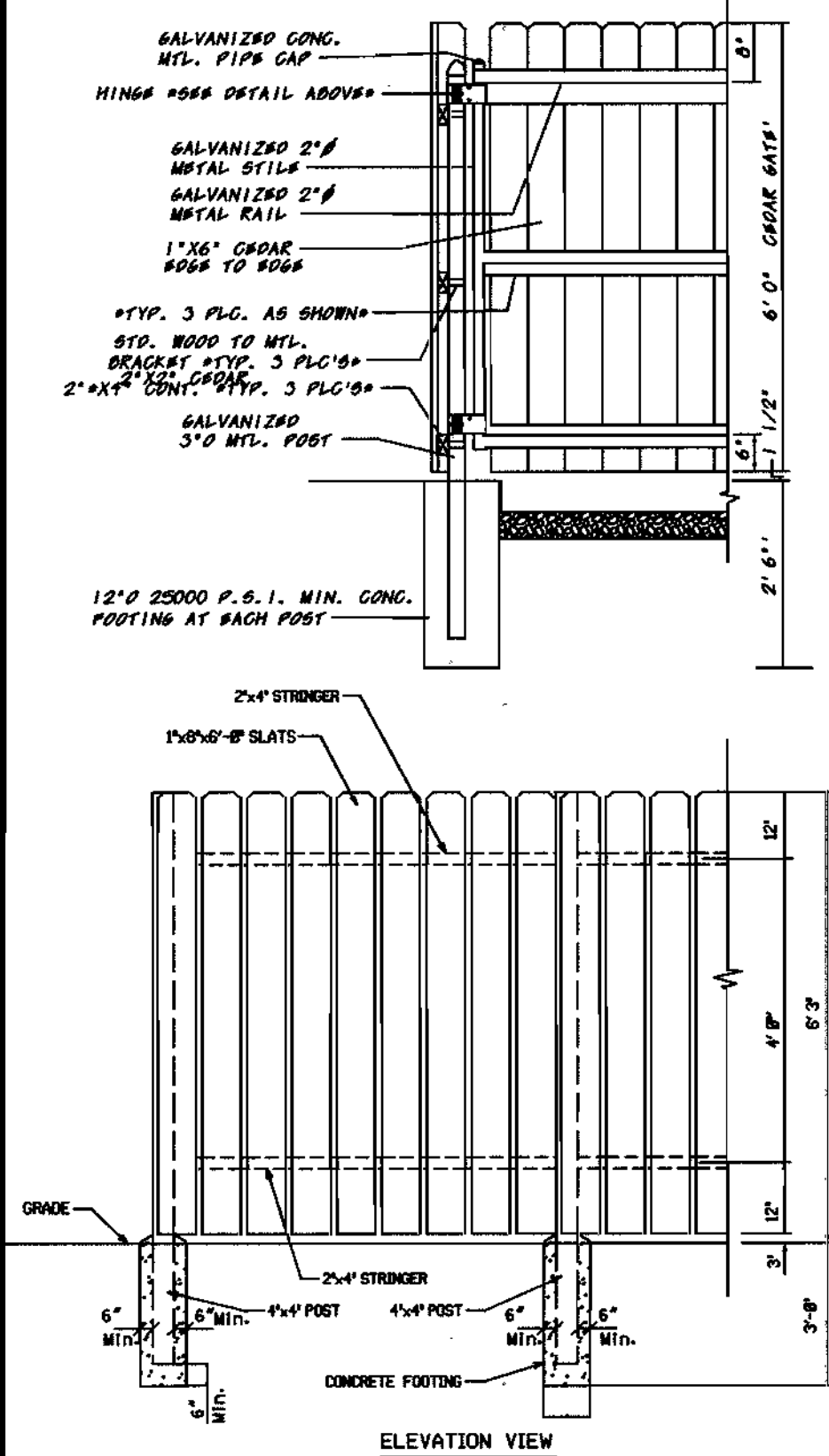
CHECKED BY: PCR  
DESIGNED BY: PCR  
DRAWN BY: BLB  
PROJECT NO.: 01048  
DATE: 5/20/2002  
SCALE: 1" = 20'  
DRAWING NO. 2 OF 6  
FILE NO. SDP- 02-056

**SEQUENCE OF CONSTRUCTION**

1. Obtain a Grading Permit through the Department of Inspections Licenses and Permits.
2. Notify Howard County Sediment Control Division, (410-313-1855) 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.
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. 1 day
7. Find grade for parking lot. 1 day
8. Construct curb, install base paving and fine grade and permanently stabilize the site. 1 week
9. With permission from the Sediment Control Inspector, install Bioretention facility and landscaping. 1 week
10. With the approval of Howard County sediment control inspector, remove all sediment and erosion control devices and permanently stabilize any remaining area

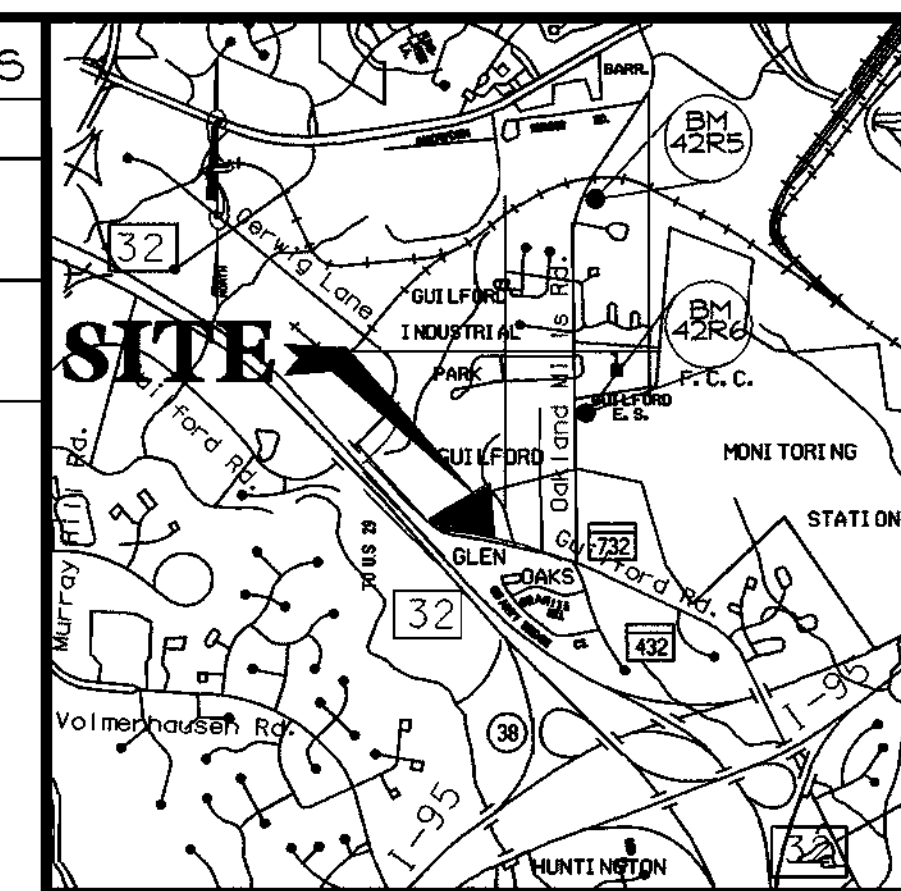
**6' WOOD DUMPSTER ENCLOSURE FENCE DETAIL**

NOT TO SCALE



**HOWARD COUNTY CONTROL POINTS**

NO.	NORTHING	EASTING	ELEV.
42R5	546,777.06	1360360.97	391.54
42R6	546,822.09	1360340.65	389.02



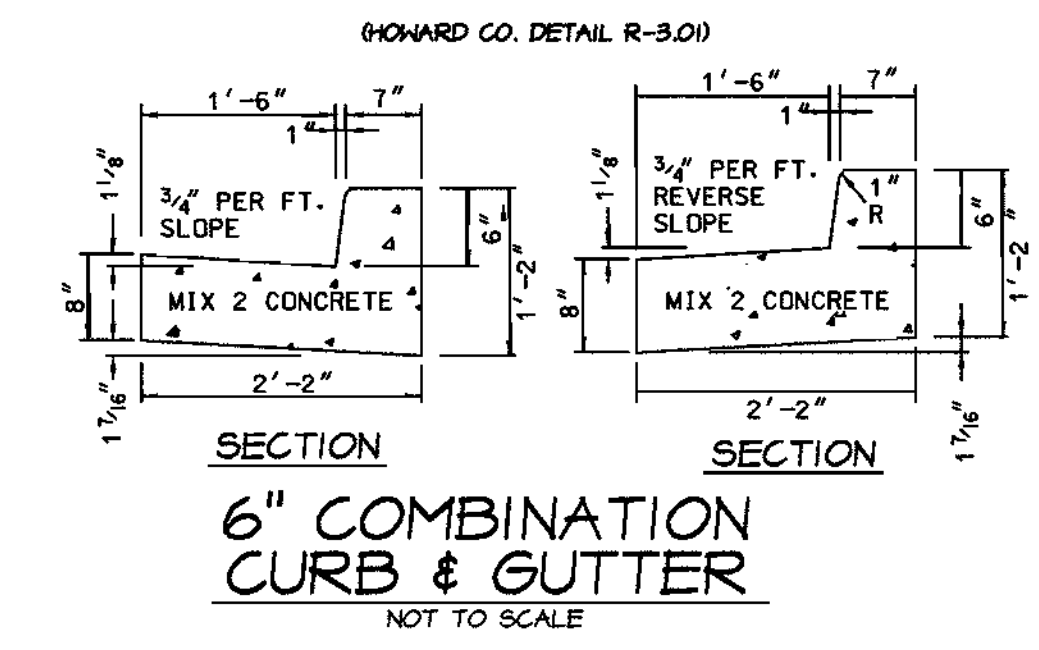
**GENERAL NOTES**

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 410-313-1855.
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, 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 for permanent seeding, sod, temporary seeding, and mulching. Sec. 6. 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	63,980 SF / 1.47 Acres
Area Disturbed	13,935 SF / 0.32 Acres
Area to be roofed or paved	10,341 SF / 0.24 Acres
Area to be vegetatively stabilized	3,594 SF / 0.08 Acres
Total Cut	466 Cu. yds
Total Fill	10 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.

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



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.

*Charles F Miller Jr* 231 May 02  
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 R Robertson* 5/22/02  
ENGINEER DATE

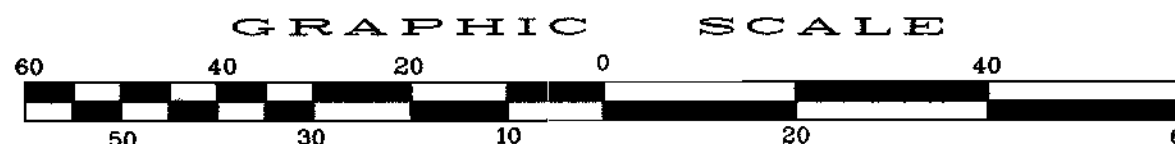
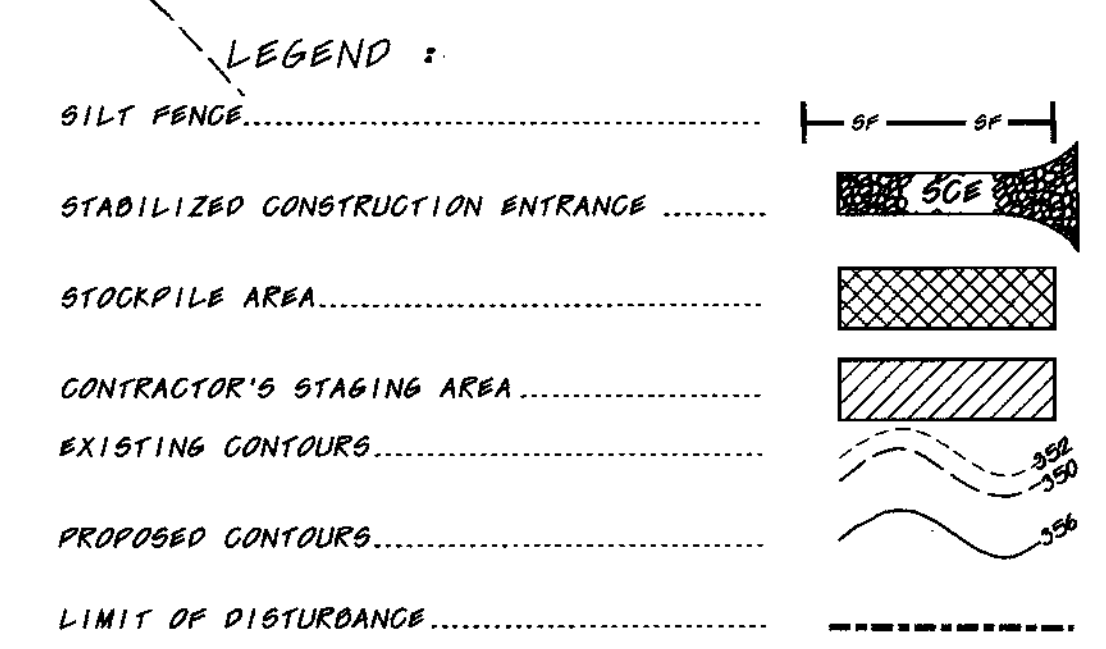
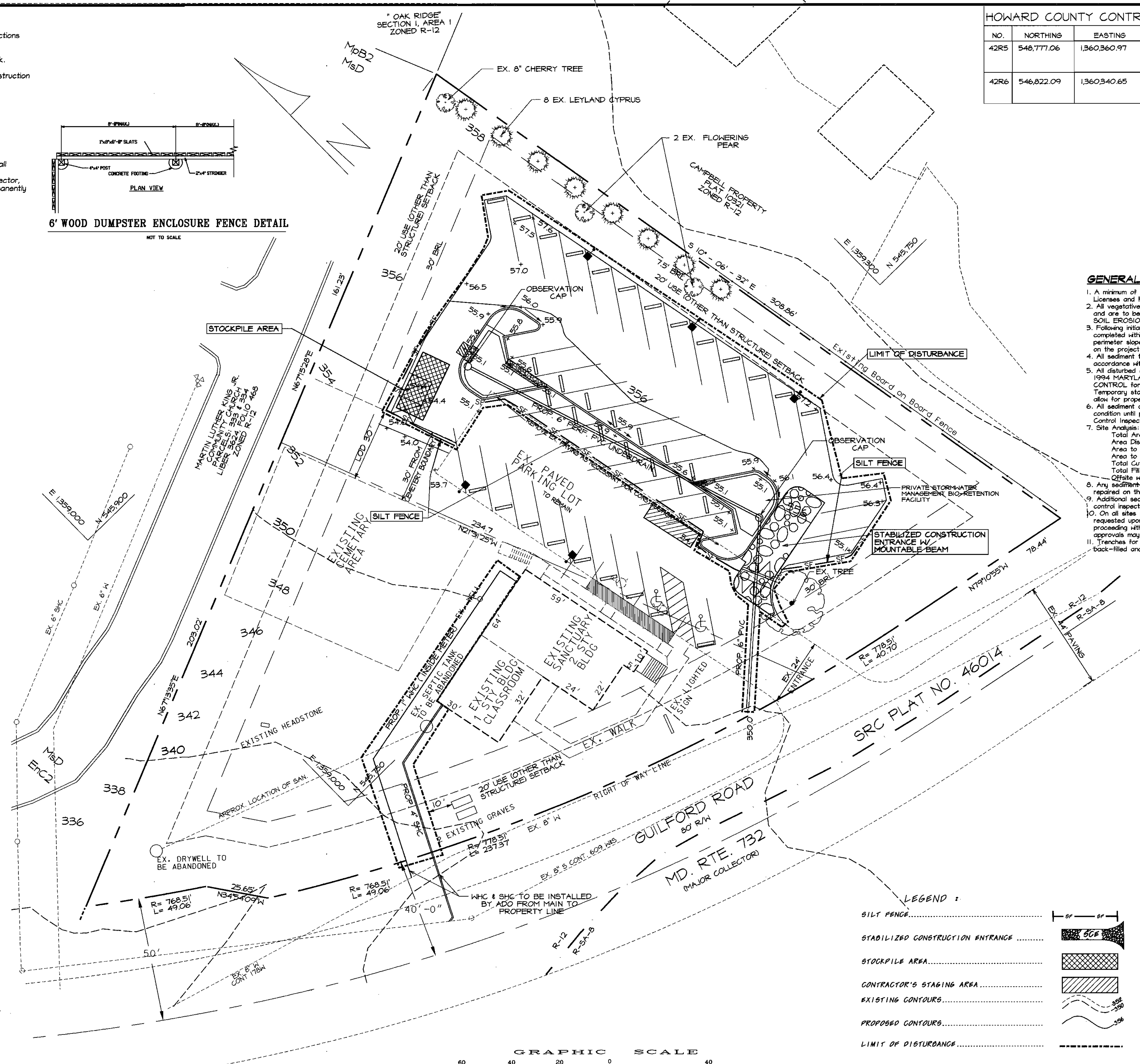
REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
*Jim Meyers* 9-30-02  
USED FOR NATURAL RESOURCES CONSERVATION SERVICES DATE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John R Robertson* 9-30-02  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*John R Robertson* 10/4/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hancock* 10/8/02  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*John R Robertson* 10/11/02  
DIRECTOR DATE



**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
N/A		326 & 329
PLAT OR L/F	BLOCK	ZONING
98/119 & 203/195	16	R-12
TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
	6TH	6061.03
WATER CODE	SEWER CODE	
E-14	5200400	

DATE	NO.	REVISION
OWNER/DEVELOPER		
ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH		
3405 GUILFORD ROAD		
COLUMBIA, MARYLAND 21046		
Attn: REV. JACK A. FITZGERALD 301-498-7879		
PROJECT: ALBERTA GARY MEMORIAL UNITED		
METHODIST CHURCH PARKING LOT ADDITION		
TITLE		
GRADING & SEDIMENT CONTROL PLAN		
<b>Richardson Engineering, LLC</b>		
730 W. Potomac Road		
Cockeysville, Maryland 21030		
Phone: 410-560-1502 Fax: 410-560-0827		
CHECKED BY:	PCR	
DESIGNED BY:	PCR	
DRAWN BY:	BLB	
PROJECT NO.:	01048	
DATE:	5/20/2002	
SCALE:	1" = 20'	
DRAWING NO.	3 OF 6	

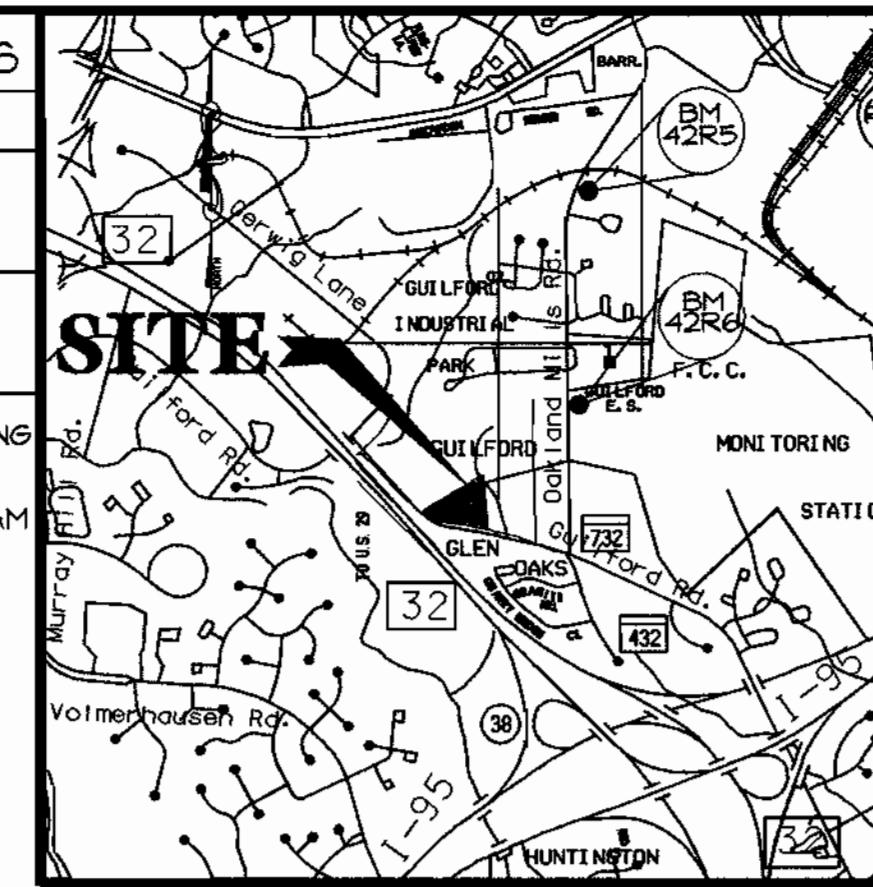


OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (1-6)

- A. Annual maintenance of plant material, mulch layer and soil layer is required. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and maintenance will be address dead material and pruning.
- B. Schedule of plant inspection will be twice a year in spring and fall. This inspection will include removal of dead and diseased vegetation considered beyond treatment, treatment of all diseased trees and shrubs and replacement of all deficient stakes and wires.
- C. Mulch shall be inspected each spring. Remove previous mulch layer before applying new layer once every 2 to 3 years.
- D. Soil erosion to be addressed on an as needed basis, with a minimum of once per month and after heavy storm events.

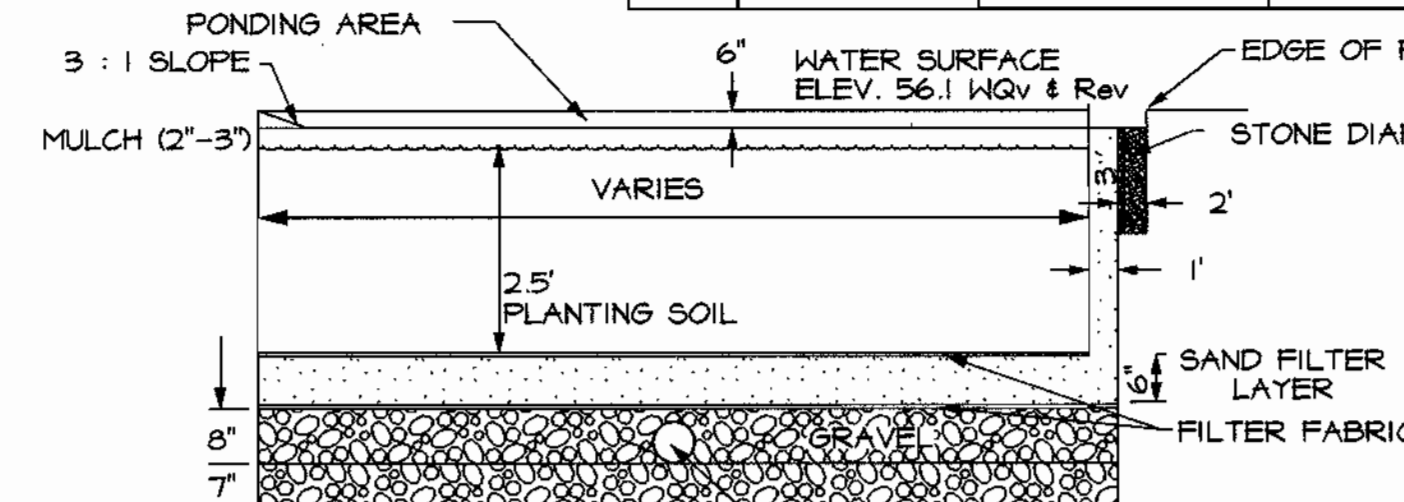
HOWARD COUNTY CONTROL POINTS

NO.	NORTHING	EASTING	ELEV.
42R5	548,777.06	1,360,360.97	391.54
42R6	546,822.09	1,360,340.65	389.02



VICINITY MAP

SCALE: 1"=2000'



BIORETENTION SECTION FACILITY NO. 1  
NO SCALE

II. BIORETENTION AREA SOIL SPECIFICATIONS

- A. Planting Soil
  - The bioretention areas shall consist of a planting soil having a composition of at least 10 to 25 percent clay and shall be of a sandy loam or loamy sand texture. Loamy soils may be utilized for the planting soil but must consist of 55% sand. In addition, the furnished planting soil shall be of uniform composition, free of stones, stumps, roots or similar objects larger than one inch, brush, or any other material or substance which may be harmful to plant growth, or a hindrance to planting or maintenance operations.
  - The planting soil shall be free of plants or plant parts of Bermuda grass, Quack grass, Johnson grass, Mugwort, Nutsedge, Poison Ivy, Canadian Thistle or others as specified.
  - It shall not contain toxic substances harmful to plant growth.
  - The planting soil shall be tested and meet the following criteria:
 

pH range	5.5 - 6.5
Organic matter	1.5 - 3.0%
Magnesium - Mg	35 lbs./acre
Phosphorus - P2O5	100 lbs./acre
Potassium - K2O	35 lbs./acre
Soluble salts	not to exceed 500 ppm
  - The following testing frequencies shall apply to the above soil constituents:
    - pH, Organic Matter: 1 test per 90 cubic yards, but no more than 1 test per Bioretention Area
    - Magnesium, Phosphorus, Potassium, Soluble Salts: 1 test per 500 cubic yards, but no less than 1 test per borrow source
  - One grain size analysis shall be performed per 90 cubic yards of planting soil, but no less than 1 test per Bioretention Area.

- Fertilization
  - Tree and Shrub fertilizer shall be a 21 gm. tightly compressed, long lasting, slow release (2 year) fertilizer tablet with a minimum guaranteed analysis of 20-10-5.
  - Total Nitrogen (N) - 20%
  - Water Soluble Organic Nitrogen - 7%
  - Plantar in Soluble Organic Nitrogen - 3%
  - Available Phosphoric Acid (P2O5) - 10%
  - Soluble Potash (K2O) - 5%
  - For containerized trees and shrubs, place the specified fertilizer tablet(s) in the bottom of the planting pit according to the following rates:
    - 1 gal. Container 1 ea. 21 gm. Tablets
    - 3 gal. Container 2 ea. 21 gm. Tablets
    - 5 gal. Container 3 ea. 21 gm. Tablets
    - 7 gal. Container 5 ea. 21 gm. Tablets
  - Planting: Non-Grass Ground Cover
    - The ground cover planting holes shall be dug through the mulch with one of the following: hand trowel, shovel, bulb planter, or hoe (this does not apply to grasses or legumes).
    - Before planting biodegradable pots shall be split, and non-biodegradable pots shall be removed. Root systems of all potted plants shall be split or crumbled.
    - The ground cover shall be planted so that the roots are surrounded by the soil below the mulch. Potted plants shall be set so that the top of the pot is even with the existing grade. The roots of bare root plants shall be covered to the crown.
    - The mulched and planted ground cover bed with a pre-emergent herbicide.
    - The entire ground cover bed shall be thoroughly watered.
  - Planting Grass Ground Cover
    - Grasses and legume seed shall be filled into the soil to a depth of at least 2 inches by either harrowing or disking. Fertilizer shall be applied at the same rate and utilizing the same process for non-grass ground cover. Grass and legume plugs shall be planted following the non-grass ground cover planting techniques.
  - Fertilizer
    - All ground covers shall be fertilized with a 10-6-4 analysis fertilizer as a wet application at the rate of 5 lbs. per 100 square feet of the bioretention area prior to planting non-grass ground cover or as part of the grass seed ground cover.
  - Underdrains
    - Underdrains are to be placed on a 3'-0" wide section of filter cloth. Pipe is placed next, followed by the gravel bedding. The ends of underdrain pipes not terminating in an observation well shall be capped.
    - The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).
  - Miscellaneous
    - The bioretention facility may not be constructed until all contributing drainage area has been stabilized.

SEQUENCE OF CONSTRUCTION

1. OBTAIN ALL NECESSARY PERMITS.
2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
3. INSTALL ALL NECESSARY SEDIMENT CONTROL MEASURES AS PER THE GRADING PLAN. CONSTRUCT PARKING LOT AND STABILIZE ALL DISTURBED AREA. (10 DAYS)
4. EXCAVATE THE BIORETENTION AREA TO THE REQUIRED DIMENSIONS AND DEPTH. (2 DAYS)
5. INSTALL THE PIPE OUTLET AND STONE DRAINAGE (1 DAY)
6. STABILIZE ALL AREAS THAT ARE DISTURBED USING PERMANENT SEEDINGS AND MULCHING. (1 DAY)

B. Mulch Layer Specifications

- A mulch layer shall be provided on top of the planting soil. An acceptable mulch layer shall include shredded hardwood or shredded wood chips or other similar product approved by the Prince Georges Landscape Architecture Division.
- Of the approved mulch products all must be well aged, uniform in color, and free of foreign material including plant material. Well-aged mulch is defined as mulch that has been stockpiled or stored for at least twelve (12) months.

C. Sand Specifications

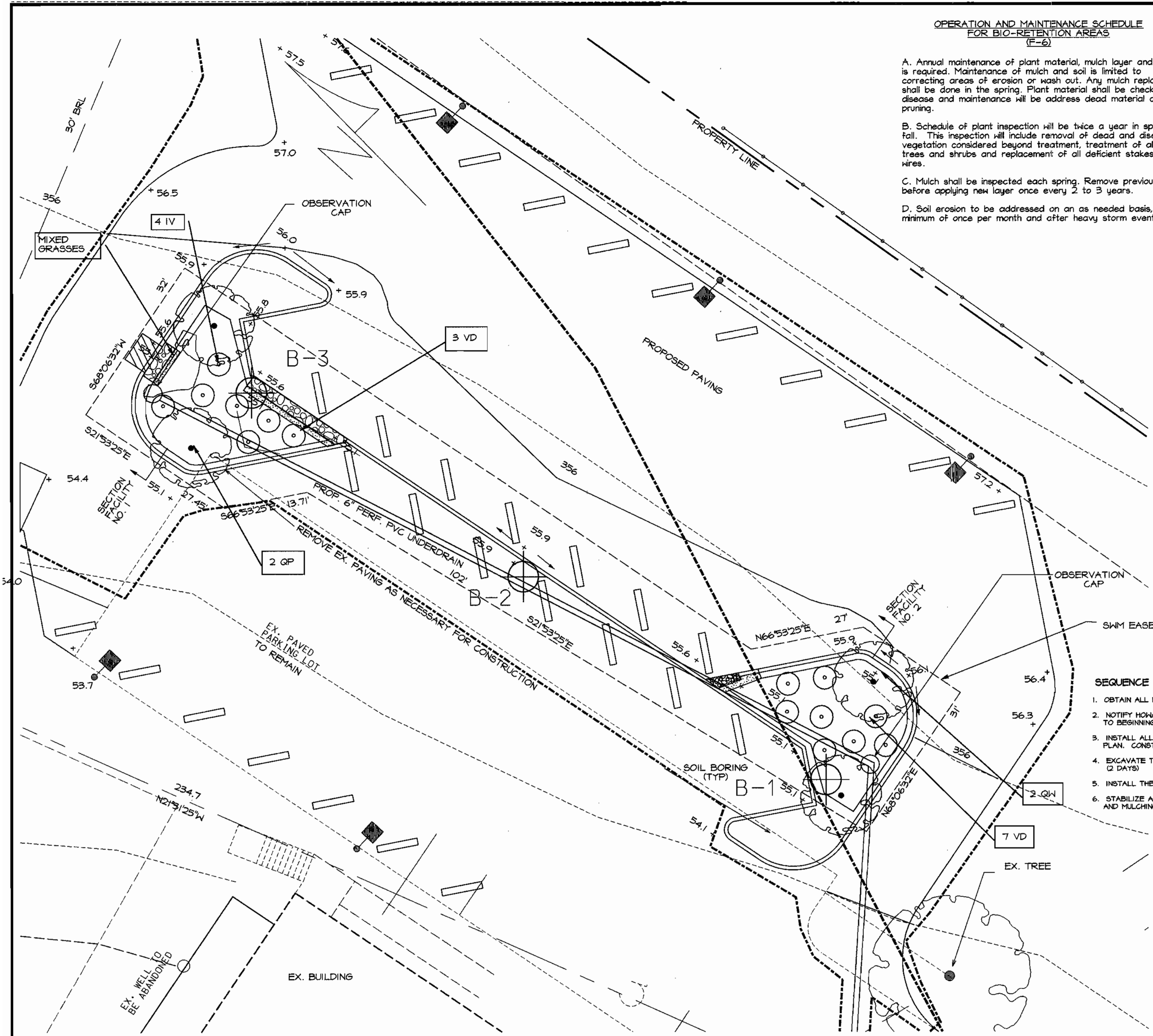
- The gravel shall be free of deleterious material and rocks greater than 1 inch in diameter.

D. Compaction

- Soil shall be placed in lifts less than 16 inches and lightly compacted (minimal compactive effort) by tamping with a bucket from a dozer or a backhoe.

II. BIORETENTION AREA PLANT SPECIFICATIONS

- General Plant Specifications
  - Root stock of the plant material shall be kept moist during transport from the source to the job site and until planted.
  - Holes of planting pit shall be dug so that they are vertical.
  - The diameter of the planting pit must be a minimum of six inches (6") larger than the diameter of the ball of the tree.
  - The planting pit shall be deep enough to allow 1/4" of the ball to be above the existing grade. Loose soil at the bottom of the pit shall be tamped by hand.
  - The appropriate amount of fertilizer is to be placed at the bottom of the pit (see below for fertilization rates).
  - The plant shall be removed from the container and placed in the planting pit by lifting and carrying the plant by its ball (never lift by branches or trunk).
  - Set the plant straight and in the center of the pit so that the top of the ball is approximately 1/4" above the final grade.
  - Backfill planting pit with existing soil.
  - Make sure plant remains straight during backfilling procedure.
  - Never cover the top of the ball with soil. Mound soil around the exposed ball (1/4").
  - Trees shall be braced by using 2" by 2" white oak stakes. Stakes shall be placed parallel to walkways and buildings. Stakes are to be equally spaced on the outside of the tree ball. Utilizing hose and wire the tree is braced to the stakes.



PLAN  
SCALE: 1" = 10'

Design Summary

DESIGN STORM	WQ <sub>v</sub>	Re <sub>v</sub>	Cp <sub>v</sub>	Qp	Qf
REQUIRED	836 CF	217 CF	N/A	N/A	N/A
TOTAL PROPOSED	836 CF	217 CF	N/A	N/A	N/A
FACILITY NO. 1	424 CF	109 CF	N/A	N/A	N/A
FACILITY NO. 2	412 CF	108 CF	N/A	N/A	N/A

FACILITY NO. 1 - BIORETENTION FACILITY, HAZARD CLASS A  
FACILITY NO. 2 - BIORETENTION FACILITY, HAZARD CLASS A  
WQ<sub>v</sub> AND Rev WILL BE MET IN THE FACILITIES. Cp<sub>v</sub>, Qp, & Qf ARE NOT REQUIRED

DRAINAGE AREA TO FACILITY NO. 1: 0.22 AC  
DRAINAGE AREA TO FACILITY NO. 2: 0.19 AC

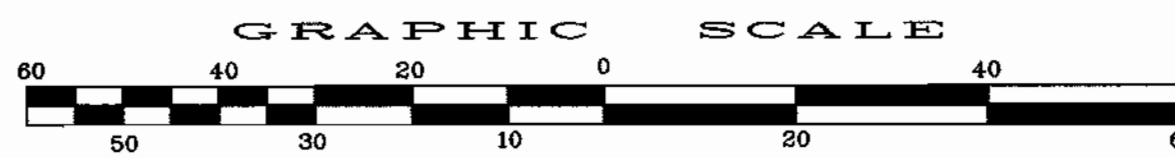
'BIO-RETENTION' PLANT LIST

TOTAL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
OW 2	QUERCUS PHELLOS	WILLOW OAK	2-2.5" CAL.	B-H
OP 2	QUERCUS PALUSTRIS	PIN OAK	2-2.5" CAL.	B-H
IV 4	ILEX VERTICILLATA	WINTERBERRY	24-30"	CONT
VD 10	VIBURNUM DENTATUM	ARROWWOOD	24-30"	CONT

ADDRESS CHART	
LOT/PARCEL*	STREET ADDRESS
329	9405 GUILFORD ROAD

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL			
N/A		329			
PLAT * OR L/P	BLOCK *	ZONING	TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
98/119 & 203/195	16	R-12	42	6TH	6061.03
WATER CODE	SEWER CODE				
B-14	8200400				



APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 10/4/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE

*[Signature]* 10/5/02  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE

*[Signature]* 10/16/02  
DIRECTOR  
DATE

CONSULTANT'S HAZARD CLASS CERTIFICATION

I CERTIFY THAT THIS POND MEETS ALL REQUIREMENTS FOR HAZARD CLASS A (REQUIREMENTS AS STATED IN THE SOIL CONSERVATION SERVICE - MARYLAND STANDARDS AND SPECIFICATIONS FOR POND CODE 378, JANUARY 2000.) ALL NECESSARY INVESTIGATIONS AND COMPUTATIONS HAVE BEEN PERFORMED TO VERIFY THIS FINDING. A COPY OF SAID INVESTIGATIONS AND COMPUTATIONS IS SUPPLIED TO S.C.S./M.C.S.C.D.

SIGNATURE: *[Signature]* MD LICENSE NO. 16597 DATE: 5/26/02  
PRINT NAME: PATRICK C. RICHARDSON, JR.

DATE	NO.	REVISION

OWNER/DEVELOPER  
ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH  
9405 GUILFORD ROAD  
COLUMBIA, MARYLAND 21046  
Attn: REV. JACK A. FITZGERALD 301-498-7879

PROJECT: ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH PARKING LOT ADDITION

TITLE  
**STORMWATER MANAGEMENT PLAN AND DETAILS**

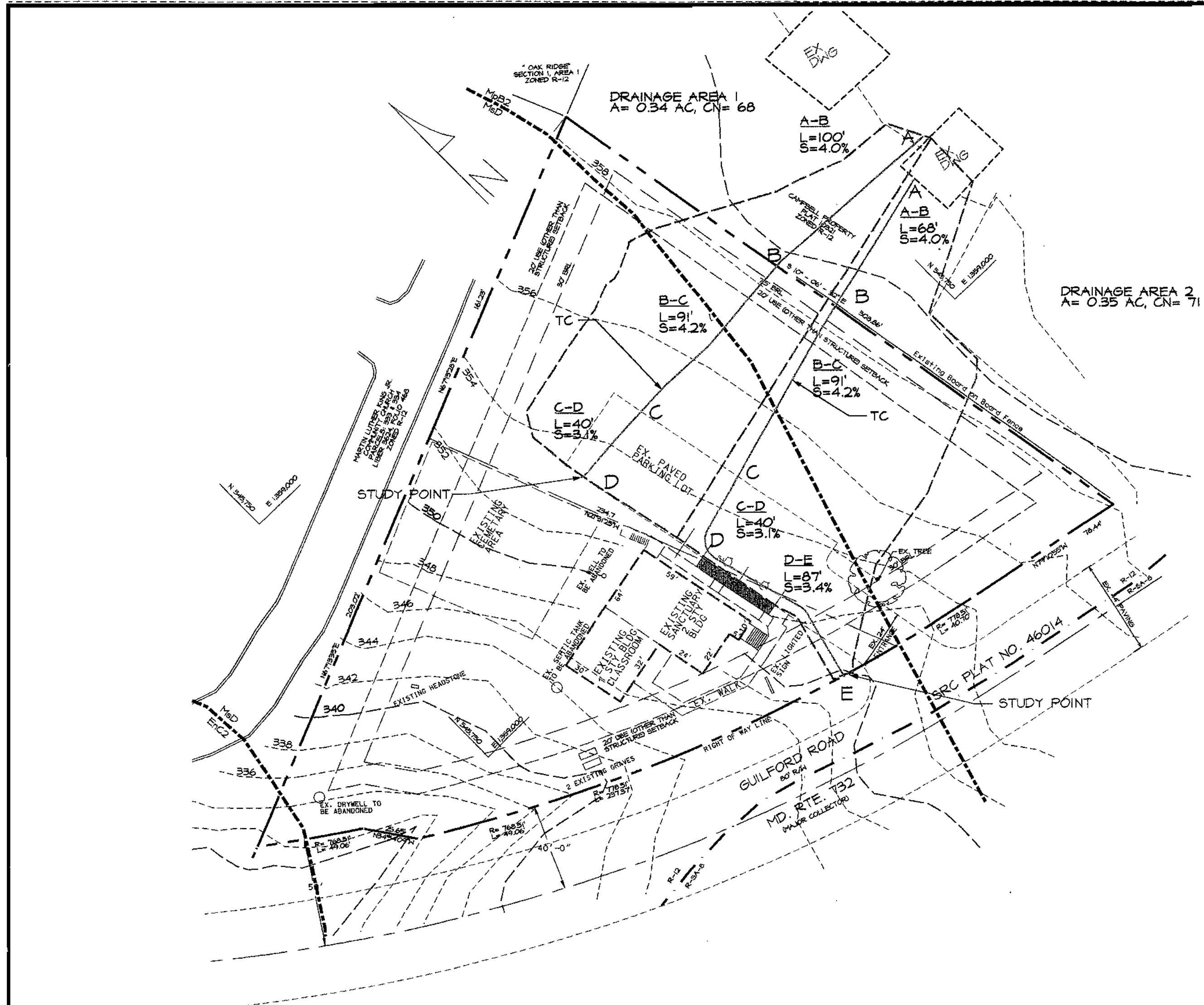
*Richardson Engineering, LLC*

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

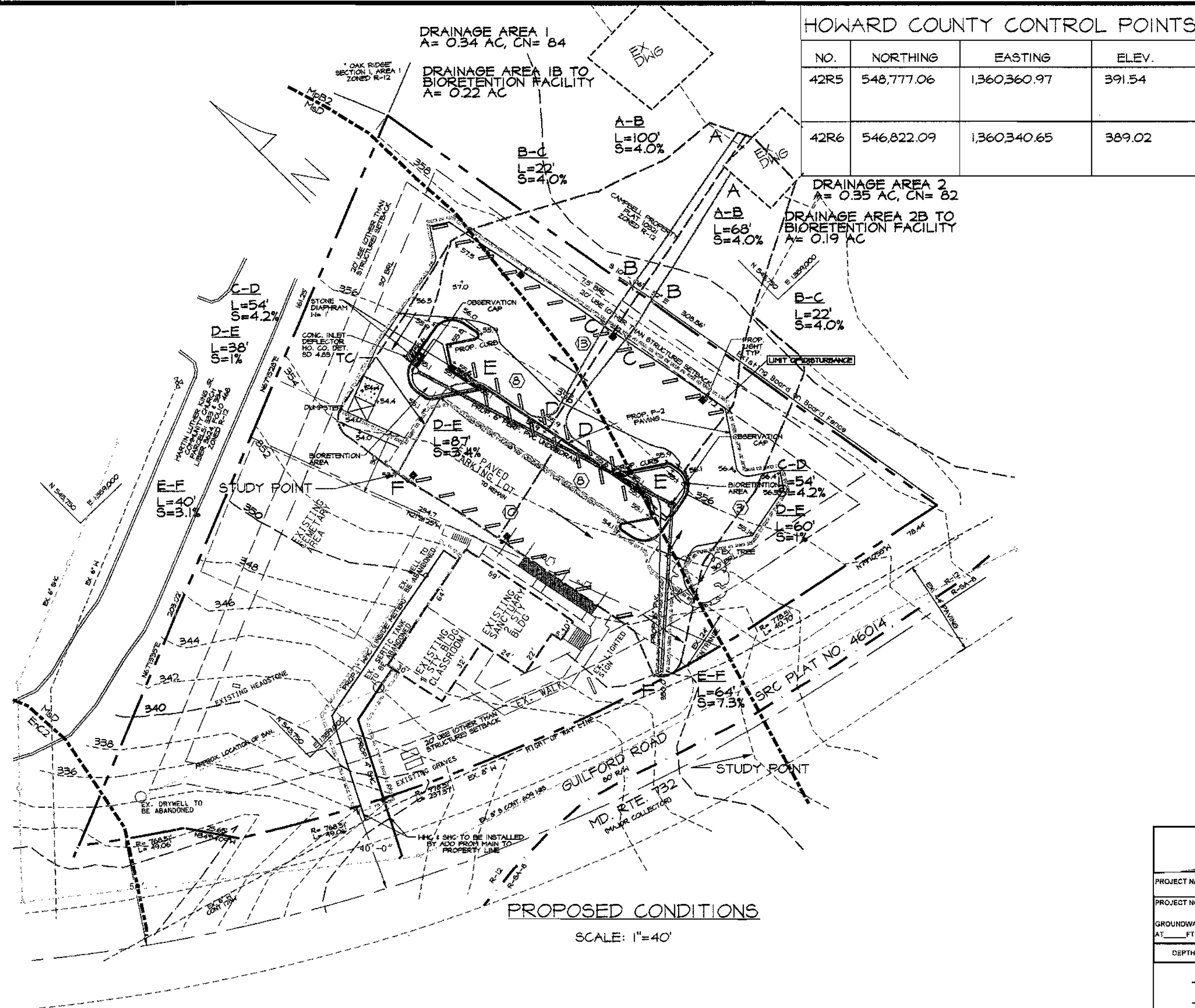
CHECKED BY: PCR  
DESIGNED BY: PCR  
DRAWN BY: BLB  
PROJECT NO.: 01048  
DATE: 5/20/2002  
SCALE: AS SHOWN  
DRAWING NO. 5 OF 6

5/26/02  
DATE

FILE NO. SDP- 02-056

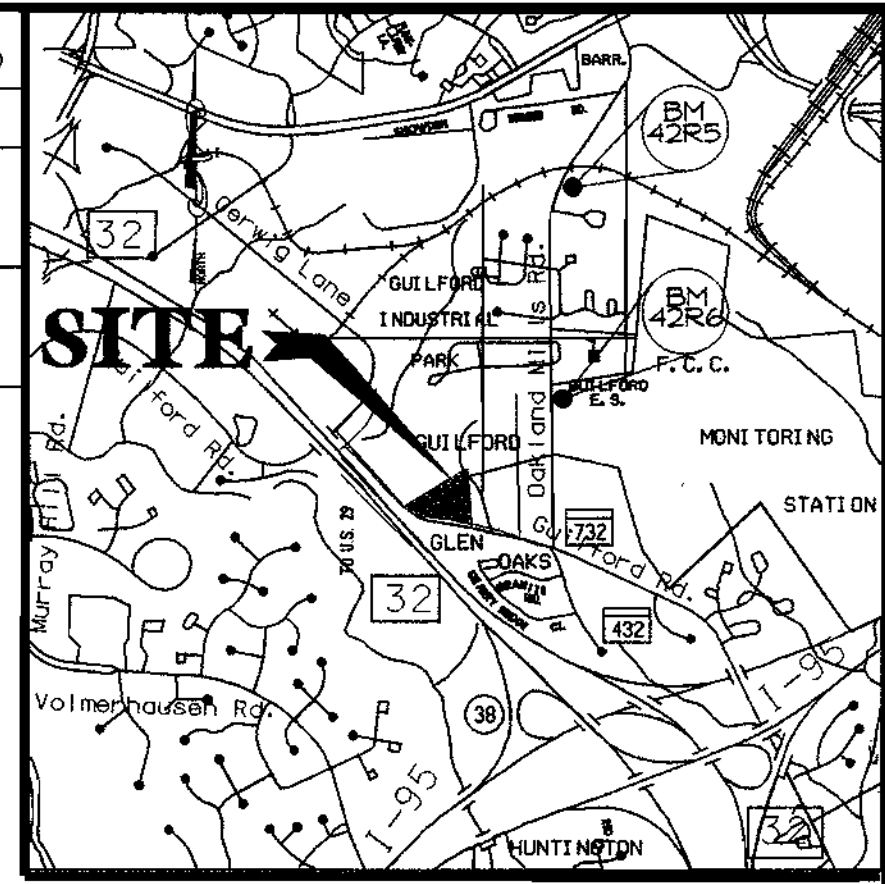


EXISTING CONDITIONS  
SCALE: 1"=40'



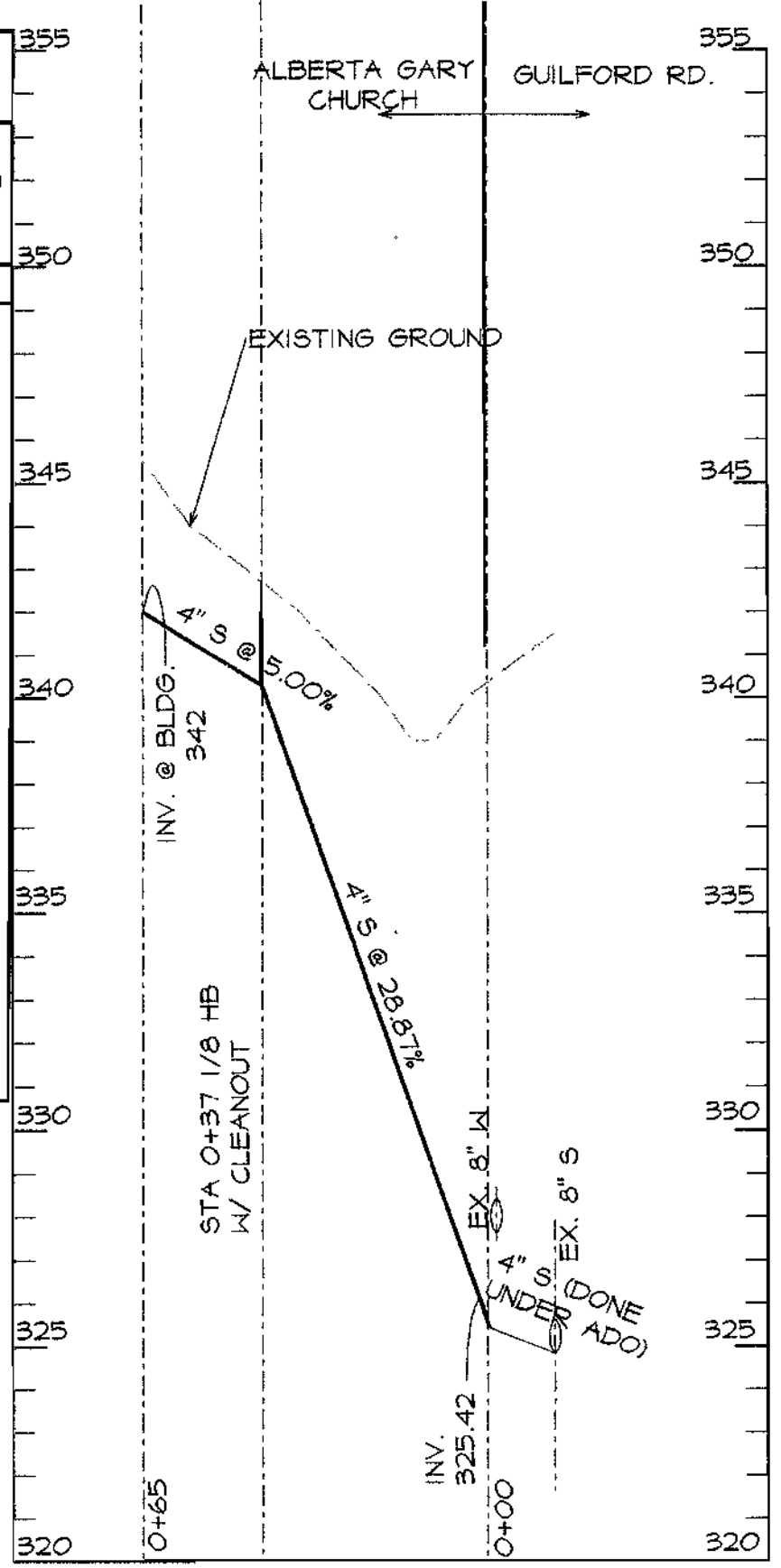
PROPOSED CONDITIONS  
SCALE: 1"=40'

HOWARD COUNTY CONTROL POINTS			
NO.	NORTHING	EASTING	ELEV.
42R5	548,777.06	1,360,360.97	391.54
42R6	546,822.09	1,360,340.65	389.02

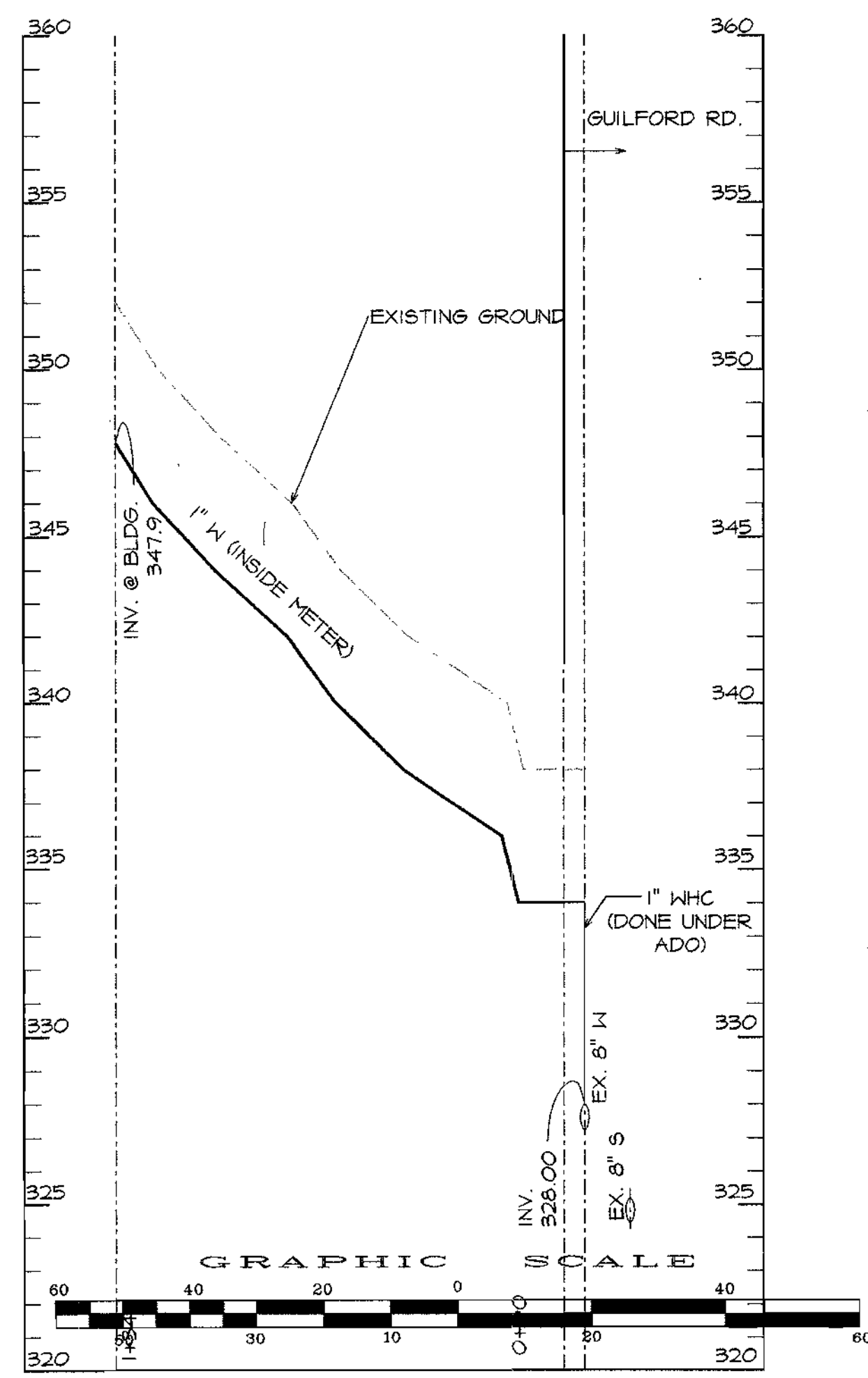


VICINITY MAP  
SCALE: 1"=2000'

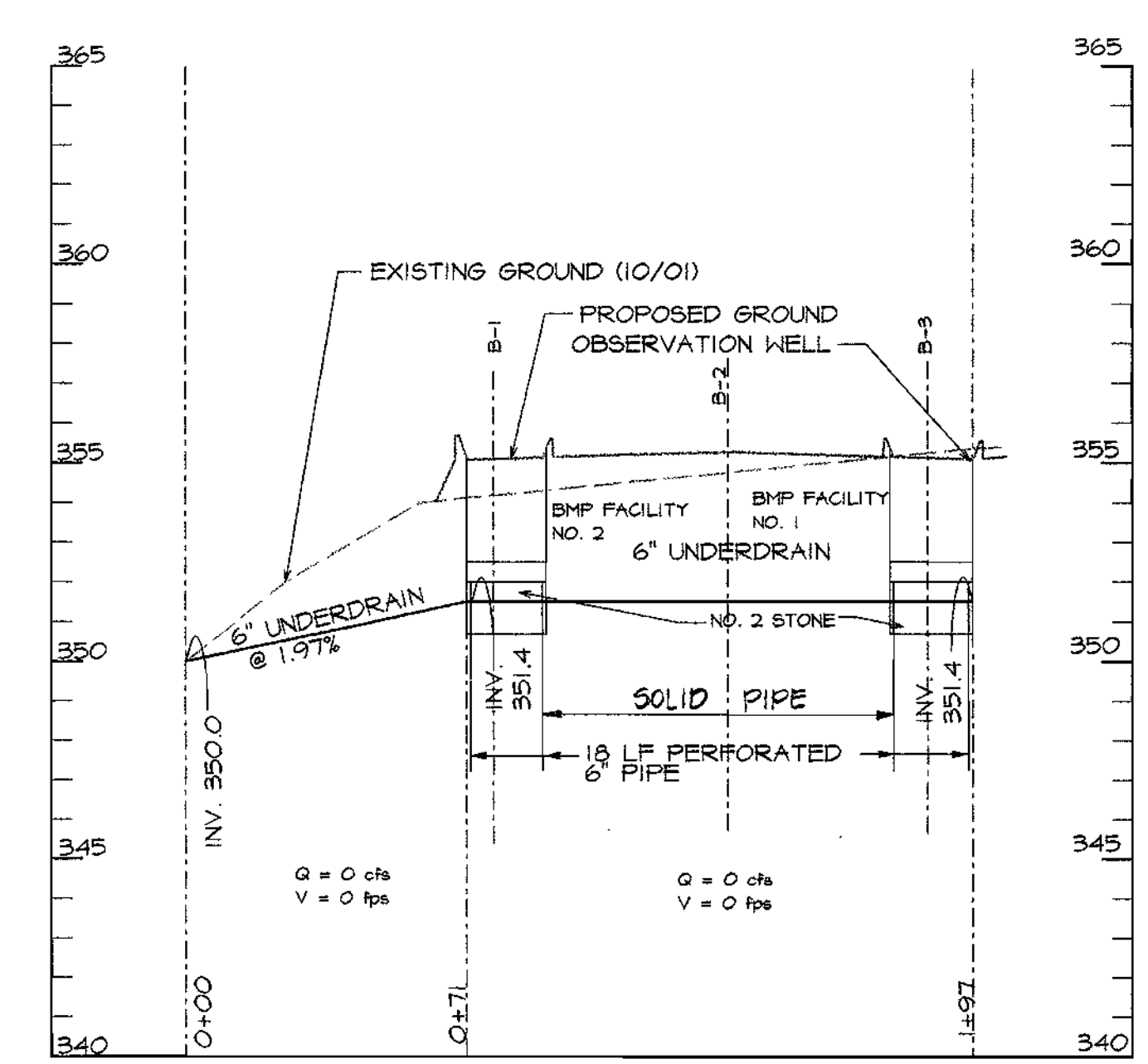
TEST PIT LOG RYAN & ASSOCIATES			TEST PIT LOG RYAN & ASSOCIATES		
PROJECT NAME: Alberta Gary United Methodist Church	TEST PIT NO: B-1	SHEET: 141	PROJECT NAME: Alberta Gary United Methodist Church	TEST PIT NO: B-2	SHEET: 141
PROJECT NO: 211206	DATE: 11/14/01	Surface Elevation: 355.5'	PROJECT NO: 211206	DATE: 11/14/01	Surface Elevation: 355.5'
INSPECTOR: William Ryan			INSPECTOR: William Ryan		
DEPTH	STRATA CHANGE	DESCRIPTION OF MATERIALS	DEPTH	STRATA CHANGE	DESCRIPTION OF MATERIALS
0		1.5' Topsoil	0		1.5' Topsoil
5		No groundwater encountered	5		No groundwater encountered
10		Brown tan gravely SILT, little clay, little sand (ML) Bottom of test pit @ 10'	10		Brown tan gravely SILT, little clay, little sand (ML) Bottom of test pit @ 10'



SANITARY CONNECTION PROFILE  
SCALE: 1" = 40' HOR.  
1" = 4' VERT.



WATER CONNECTION PROFILE  
SCALE: 1" = 40' HOR.  
1" = 4' VERT.



BIORETENTION/ UNDERDRAIN PROFILE  
SCALE: 1" = 40' HOR.  
1" = 4' VERT.

PIPE SCHEDULE	
TYPE	LINEAR FEET
6" PVC	75
6" PERF. PVC	122

TEST PIT LOG RYAN & ASSOCIATES			
PROJECT NAME: Alberta Gary United Methodist Church	TEST PIT NO: B-3	SHEET: 141	DATE: 11/14/01
PROJECT NO: 211206	DATE: 11/14/01	Surface Elevation: 355.5'	INSPECTOR: William Ryan
DEPTH	STRATA CHANGE	DESCRIPTION OF MATERIALS	REMARKS
0		1.5' Topsoil	
5		No groundwater encountered	No groundwater encountered
10		Brown tan gravely SILT, little clay, little sand (ML) Bottom of test pit @ 10'	

DATE	NO.	REVISION

OWNER/DEVELOPER  
ALBERTA GARY MEMORIAL UNITED METHODIST CHURCH  
9405 GUILFORD ROAD  
COLUMBIA, MARYLAND 21046  
Attn: REV. JACK A. FITZGERALD 301-498-7879

PROJECT: ALBERTA GARY MEMORIAL UNITED  
METHODIST CHURCH PARKING LOT ADDITION

TITLE  
**D.A. MAP, PROFILES & SITE 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: BLB  
PROJECT NO.: 01048  
DATE: 4/02/2002  
SCALE: AS SHOWN  
DRAWING NO. 6 OF 6  
FILE NO. SDP-02-056

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*William Ryan* 10/4/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hansen* 10/5/02  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Paul Smith* 10/11/02  
DIRECTOR DATE

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL			
N/A		3261329			
PLAT * OR L/F	BLOCK *	ZONING	TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
98/119 & 203/195	16	R-12	42	6TH	6061.03
WATER CODE	SEWER CODE				
6-14	6200400				