

GENERAL NOTES

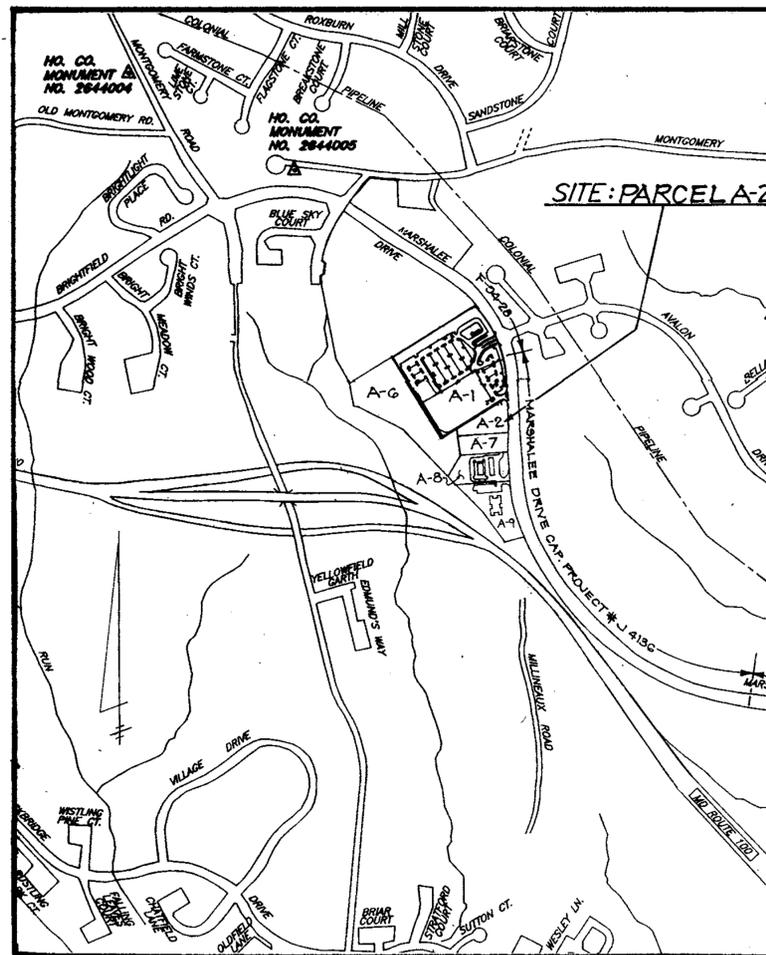
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION" - LATEST EDITION AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER IN THE EVENT OF ANY DISCREPANCIES ON THE PLAN OR IN THE RELATIONSHIP OF EXISTING GRADES WITH PROPOSED GRADES PRIOR TO BEGINNING WORK.
 - THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN A SCALED DIMENSION AND A FIGURED DIMENSION SHOWN ON THE PLANS, THE FIGURED DIMENSION SHALL GOVERN.
 - IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFICALLY WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 WORKING DAYS PRIOR TO BEGINNING WORK:
 MISS UTILITY 1-800-257-7777
 BELL ATLANTIC 1-410-725-9976
 HOWARD COUNTY BUREAU OF UTILITIES 1-410-313-2366
 AT&T CABLE LOCATION DIVISION 1-410-393-3553
 BG&E 1-410-685-0123
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION, AT LEAST 48 HOURS PRIOR TO START (1-410-313-1855)
 HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS STATED OTHERWISE.
 - ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A BANK WITH DRIVE THROUGH ACCESS.
 - STORMWATER QUANTITY AND QUALITY MANAGEMENT WILL BE PROVIDED BY AN OFF-SITE FACILITY ON PARCEL A-6 OF LYNDWOOD SQUARE. SEE FILE #F-96-115 AND SDP 96-92.
 - SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY, NOR ARE ANY WETLAND PERMITS REQUIRED FOR THIS PROJECT.
 - PUBLIC WATER AND SEWER WILL BE UTILIZED. A 2" WATER METER SHALL BE LOCATED WITHIN THE BANK BUILDING AND WILL MEET ALL HOWARD COUNTY STANDARDS. THE WATER AND SEWER CONNECTIONS SHALL BE PRIVATELY MAINTAINED.
 - TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ALL SITE LIGHTING MUST BE DIRECTED AWAY FROM THE ADJACENT PUBLIC RIGHT OF WAY AND THE VICINAL RESIDENTIAL PROPERTIES. LIGHTING MUST BE IN COMPLIANCE WITH THE ZONING REGULATIONS, SECTION 134.
 - THE WETLAND DELINEATION WAS PREPARED UNDER F-94-96.
 - THE FLOODPLAIN STUDY FOR THIS SITE WAS PREPARED UNDER F-94-26.
 - THE ORIGINAL TRAFFIC STUDY WAS PREPARED UNDER F-94-26. A LETTER UPDATING THE PROGRAM WAS PREPARED JANUARY 29, 1996 BY LEE CUNNINGHAM & ASSOCIATES.
 - HANDICAP PARKING DETAILS SHALL BE IN ACCORDANCE WITH THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED", SECTION 5.01-7.05.
 - ALL ON-SITE DRIVEWAYS AND PARKING AREAS TO BE PRIVATELY MAINTAINED.
 - ALL SIDEWALKS SHALL BE CROSS-SLOPED AT 1/4" PER FOOT AWAY FROM THE BUILDING UNLESS OTHERWISE INDICATED.
 - TRENCH BEDDING FOR STORM DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD G2.01.
 - GUTTER OF CURBS SHALL BE PITCHED TO CONFORM TO ADJACENT DRAINAGE PATTERNS.
 - WATER AND SEWER BUILDING CONNECTIONS AND ROOF DRAIN CONNECTIONS FROM THE ON-SITE UTILITIES TO THE BUILDING ARE TO BE CONSTRUCTED BY THE BUILDING PLUMBER.
 - REFERENCE FILES: ZB 877 R&M, WP 91-33, F 91-125, RES 188, S 93-02, PB 284, P 93-11, SDP 93-105, F 94-26, F 94-95, WP 93-86, F 96-115, SDP 96-92, SDP 96-100, SDP 98-16, WP 96-87, F 97-95.

LEEDS FEDERAL SAVINGS BANK

LYNDWOOD SQUARE PARCEL A-2

SITE ANALYSIS

- TOTAL SITE AREA: 52,424 SQ. FT. OR 1.2035 AC. +/-
- TOTAL NUMBER OF LOTS: 1
- DEED REFERENCE: 4525 / 87
- PRESENT ZONING: B-2
- ELECTION DISTRICT: FIRST
- TAX MAP: 37 GRID: 3 PARCEL: 687 LOT: A-2
- PARKING TABULATION:
 - REQUIRED: BANK 5 SPACES/1,000 SQ. FT. X 3,254 SQ. FT. = 17 SPACES
 - PROVIDED: 26 SPACES (INCLUDING 2 HANDICAP SPACES)
- SITE AREA TABULATION:
 - PARCEL AREA 1.2035 AC.
 - BUILDING AREA 3254 SQ. FT.
 - BUILDING COVERAGE 0.0761 AC. OR 6.33%
 - PROPOSED PAVED AREA 0.75 AC. +/-
 - PROPOSED GREEN AREA 0.38 AC. +/-



VICINITY MAP

SCALE: 1"=600'

BENCHMARK INFORMATION

- HOWARD COUNTY MONUMENT NO. 2644004: CONCRETE MONUMENT 1.0 FT. BELOW SURFACE S.W. CORNER OF INTERSECTION RTE. 103 AND OLD MONTGOMERY ROAD. ELEV. 402.135
- HOWARD COUNTY MONUMENT NO. 2644005: CONCRETE MONUMENT 2.0 FT. BELOW SURFACE SOUTH SIDE MONTGOMERY ROAD EAST OF MEADOWRIDGE ROAD. ELEV. 416.931

SHEET INDEX

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	SITE PLAN
3	SITE DETAILS
4	SEDIMENT & EROSION CONTROL PLAN
5	SEDIMENT & EROSION CONTROL NOTES AND DETAILS
6	LANDSCAPE PLAN
7	DRAINAGE AREA MAP

Date	No	Revision Description
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
		<i>[Signature]</i> DATE 8/1/99
		<i>[Signature]</i> DATE 8/24/99
		<i>[Signature]</i> DATE 8/26/99
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY HEALTH DEPARTMENT.		
COUNTY HEALTH OFFICER DATE		

LEEDS FEDERAL SAVINGS BANK
 LYNDWOOD SQUARE - PARCEL A-2
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21284
 PH: 410-823-8070 FAX: 410-823-2104

AREA MARSHALEE DRIVE !
 PARCEL "A-2" - 1.2035 AC.±

COVER SHEET

Des By: JPM	Scale: 1"=30'	Proj No: 98-196.00
Drn By: JPM	Date: 6/28/99	DRAWING NO
Chk By: PL	Approved:	1 OF 7

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
A-2	6080 MARSHALEE DRIVE, ELKRIDGE
SUBDIVISION NAME	LYNDWOOD SQUARE
PLAT NO.	12331
BLOCK NO.	3
ZONE	B-2
TAX/ZONE	37
BLDGT. DIST.	1
CENSUS TR.	8011
SEWER CODE	004
	201040

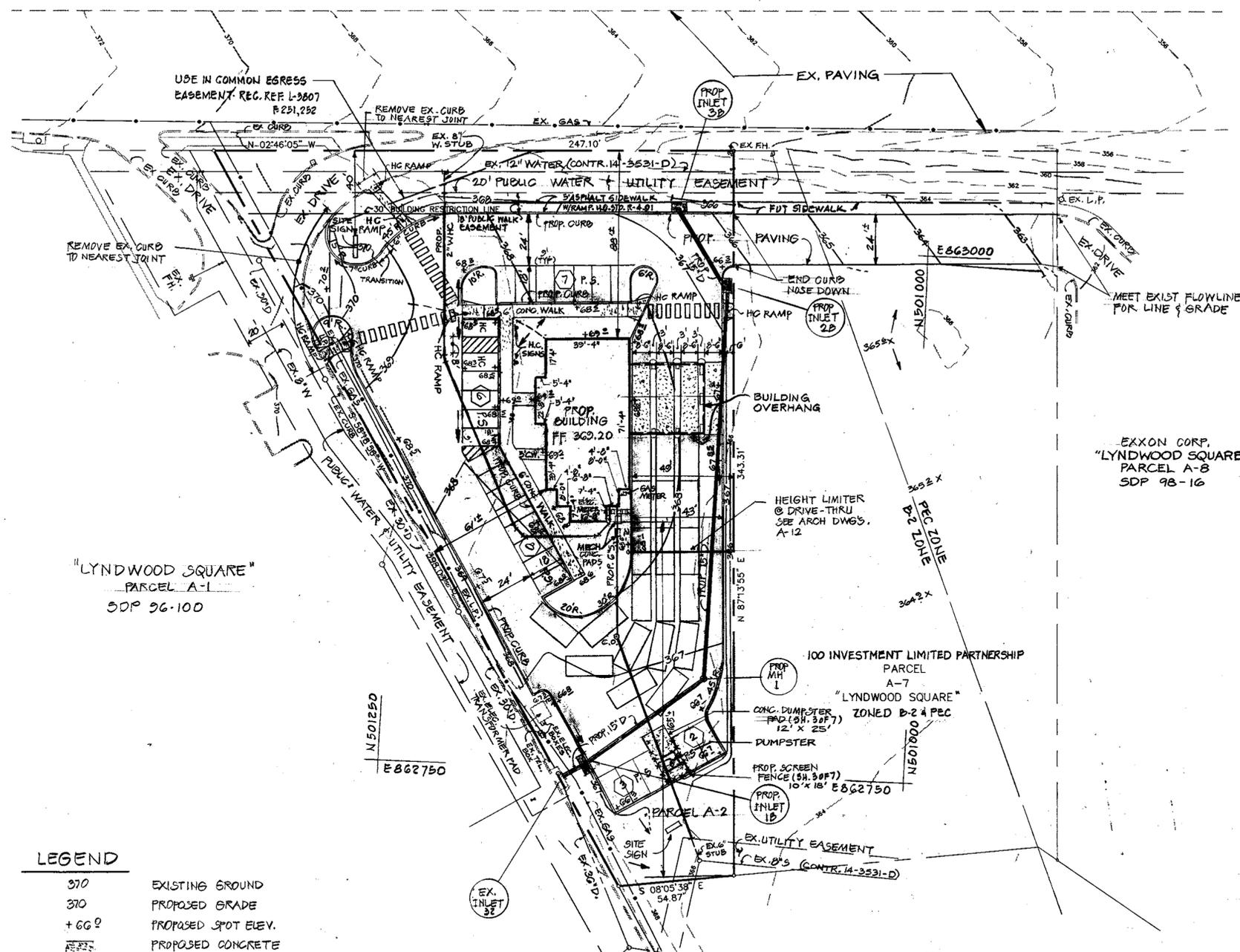


MARSHALEE

DRIVE

SITE DATA

- TOTAL SITE AREA = 52,424 SQ. FT. OR 1.2035 AC.
- EXIST. ZONING = B-2
- DEED REFERENCE = 4525/87
- PROPOSED USE OF PROPERTY = BANK
- PROPOSED BUILDING AREA = 3,254 SQ. FT.
- PARKING REQUIRED = 5 SPACES / 1000 SQ. FT. X 3,254 SQ. FT. = 17 SP.
- PARKING SHOWN = 26 SPACES (INCL. 2 H.C. SPACES)

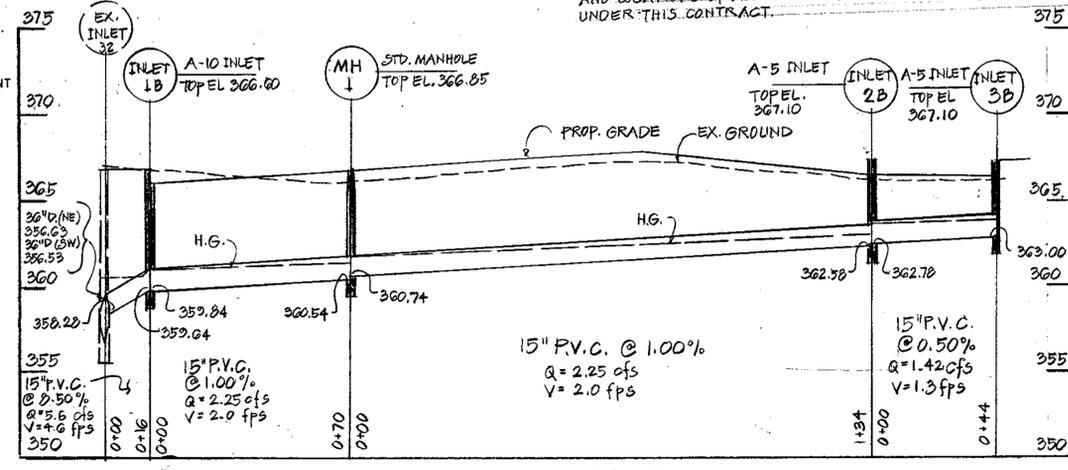


GENERAL NOTES

- PRIOR TO CONSTRUCTION CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND VERIFY EXISTING SITE CONDITIONS TO HIS SATISFACTION.
- CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY O.S.H.A. AND HOWARD COUNTY.
- REFER TO DRAWING SHEET 4 OF 7 FOR SEDIMENT CONTROL DEVICES REQUIRED TO BE IN PLACE PRIOR TO WORK.
- ALL UTILITIES AND STRUCTURES WITHIN PUBLIC RIGHTS-OF-WAY SHALL REMAIN UNLESS OTHERWISE NOTED.
- ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY REMOVAL AND/OR RELOCATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
- DIMENSION LABELS FOLLOWED BY A ± (PLUS OR MINUS) ARE APPROXIMATE DIMENSIONS INTENDED TO BENEFIT PLAN REVIEW PURPOSES. ALL OTHER DIMENSIONS TO BE USED FOR SITE LAYOUT PURPOSES.
- ON-SITE CURBING SHALL HAVE REVERSE GUTTER PANS WHERE GRADES DRAIN AWAY FROM CURBING.
- DIMENSIONS TO INLETS, MANHOLES, AND OTHER DRAINAGE STRUCTURES ARE TO THE CENTER OF THESE STRUCTURES.
- YARD LIGHTS TO BE SET MINIMUM 2'-6" BEHIND BACK OF CURB OR SIDEWALK TO FACE OF POLE.
- ALL POINTS OF INGRESS AND EGRESS SHALL HAVE 5' LONG LEVEL LANDINGS ON SIDEWALK. (SEE SH. 3 OF 7)
- WATER AND SEWER SERVICES TO BE INSTALLED TO WITHIN 5' OUTSIDE THE FACE OF BUILDING, WHERE IN CONNECTION TO BUILDING UTILITIES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR.
- THE CONTRACTOR IS TO NOTIFY MISS UTILITY AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION AND EXCAVATION. PHONE 1-800-257-1777.
- PRIOR TO ANY CONSTRUCTION UNDER THIS CONTRACT CONTRACTOR SHALL TEST PIT TO VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHERE UTILITY TIE-INS AND CROSSING WILL BE ENCOUNTERED. ANY DISCREPANCIES IN HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DRAWINGS, PARTICULARLY AT PROPOSED STORM DRAIN, SANITARY, AND WATER CONNECTIONS, SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER PRIOR TO ANY CONTINUATION OF WORK UNDER THIS CONTRACT. THIS IS FOR THE PURPOSE OF IDENTIFYING ANY CONFLICTS WHICH MAY IMPACT THE PROPOSED DESIGN, AND RESOLUTION OF SAID CONFLICTS PRIOR TO CONTINUATION OF WORK.
- ANY EXISTING UTILITIES AND AMENITIES WHICH ARE DAMAGED DUE TO TEST PITTING AND UTILITY CONSTRUCTION SHALL BE REPAIRED IN KIND AT THE SOLE EXPENSE OF THE CONTRACTOR.
- ANY PROPOSED GAS AND ELECTRIC SERVICE TO BE COORDINATED IN THE FIELD WITH B.G.E. FOR LOCATION AND SIZE OF SERVICE.
- UTILITIES SHALL MAINTAIN A MINIMUM 12-INCH VERTICAL CLEARANCE WHEN CROSSING EXISTING AND PROPOSED UTILITIES ON AND OFF SITE.
- WATER SERVICES SHALL HAVE A MINIMUM 3.5 FEET OF COVER OVER CROWN OF PIPE.
- WATER SERVICE SHALL BE TYPE K COPPER TUBING. SANITARY SEWER PIPE SHALL BE PVC SCH. 40.
- INFORMATION CONCERNING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES WAS TAKEN FROM RECORDS PROVIDED BY UTILITY COMPANIES AND HOWARD COUNTY DPW. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THE ENGINEER MAKES NO GUARANTEE AS TO THE COMPLETENESS OR ACCURACY OF UTILITIES AND THEIR LOCATIONS SHOWN OR NOT SHOWN ON THESE DRAWINGS. SUCH INFORMATION PROVIDED ON THESE PLANS IS FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE CONTRACTOR SHALL VERIFY THE PRESENCE, ABSENCE, AND LOCATIONS OF ALL UTILITIES TO HIS SATISFACTION PRIOR TO ANY WORK UNDER THIS CONTRACT.

LEGEND

370	EXISTING GROUND
370	PROPOSED GRADE
+66.0	PROPOSED SPOT ELEV.
CONC.	PROPOSED CONCRETE
PAVING	PROPOSED PAVING
+370.5	EXISTING SPOT ELEV.
---	EXISTING SANITARY SEWER
---	EXISTING WATER
---	EXISTING GAS
---	EXISTING STORM DRAIN
X	EXISTING LIGHT POLE
---	PROPOSED SCREEN FENCE



STORM DRAIN PROFILE

SCALE: 1" = 50' HORIZ. 1" = 5' VERT.

Date	No.	Revision Description
8/13/99		DATE
8/24/99		DATE
8/26/99		DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 CHIEF-DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER _____ DATE _____

LEEDS FEDERAL SAVINGS BANK
 LYNDWOOD SQUARE - PARCEL A-2
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21284
 PH: 410-823-8070 FAX: 410-823-2184

AREA: MARSHALEE DRIVE
 PARCEL "A-2" - 1.2035 AC.±

DRAWING: **SITE PLAN**

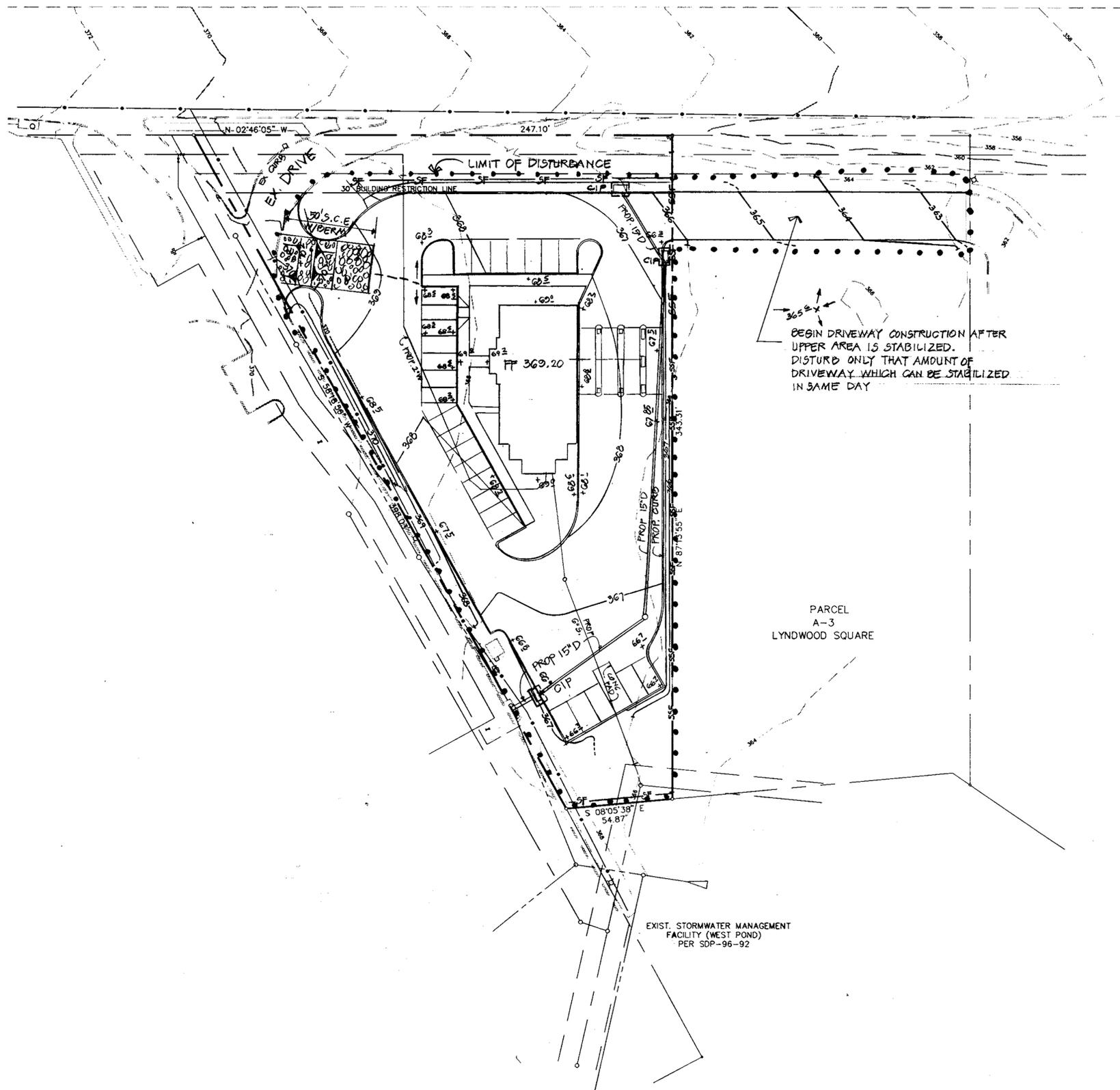
Des By: JFB/OP	Scale: 1"=30'	Proj No: 98-196.00
Des By: MA/HR	Date: 6/28/99	DRAWING NO.
Des By: PL	Approved:	2 OF 7



SDP 99-118

MARSHALEE

DRIVE



BEGIN DRIVEWAY CONSTRUCTION AFTER UPPER AREA IS STABILIZED. DISTURB ONLY THAT AMOUNT OF DRIVEWAY WHICH CAN BE STABILIZED IN SAME DAY

PARCEL A-3 LYNDWOOD SQUARE

LEGEND

- 36.0 --- EXISTING GROUND
- 36.0 --- PROPOSED GRADE
- SF --- SILT FENCE
- SSF --- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- STABILIZED CONST. ENTR.
- CIP CURB INLET PROTECTION

EXIST. STORMWATER MANAGEMENT FACILITY (WEST POND) PER SDP-96-92

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR 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.
Paul Lee 7-27-99
 SIGNATURE OF ENGINEER DATE

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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
Paul R. Douglas 7-29-99
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 8/17/99
 U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS AS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John P. Roberts 8/17/99
 HOWARD S.C.D. DATE

Date	No	Revision Description
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION
		<i>Cathy Hamilton</i> 8/21/99
		CHIEF-DIVISION OF LAND DEVELOPMENT
		<i>Paul Lee</i> 8/26/99
		DIRECTOR

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS BY HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER DATE

TITLE
LEEDS FEDERAL SAVINGS BANK
LYNDWOOD SQUARE - PARCEL A-2
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21284
 PH: 410-823-8070 FAX: 410-823-2104



AREA
 MARSHALEE DRIVE
 PARCEL "A-2" - 1.2035 AC.±
 DRAWING:
SEDIMENT & EROSION CONTROL PLAN
 Des By *WD/JFB* Scale 1"=30' Proj No 98-196.00
 Dwn By *MA/HR* Date 6/28/99 DRAWING NO
 Ck By *PL* Approved 4 OF 7

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS OF MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THROUGH APRIL 30, SEED WITH 1 LBS. PER ACRE (0.025 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS AND 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOIL. OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

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

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

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.).

SEEDING: FOR THE PERIODS OF MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1/2 BU. PER ACRE OF ANNUAL RYE (12 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 1 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS./1000 SQ.FT.). FOR THE PERIOD OF NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

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

STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS:

- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
- SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 1/2 INCH, PLUS OR MINUS 1/8 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- STANDARD SIZE SECTIONS OF SOD SHALL BE STONE ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASS ON THE UPPER 10 PERCENT OF THE SECTION.
- INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE PROPER WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY WET OR DRY) 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 INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

SITE PREPARATION: FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TEST. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.

- PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT COULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
- WHERE THE SOIL IS ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 LBS./1000 SQ. FT. IN ALL SOILS, 1,000 LBS./ACRE OR 25 LBS./1000 SQ. FT. OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
- ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED. HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

SOD INSTALLATION:

- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE, THE SOIL 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 TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE 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.
- ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMPING AND PEGGING OR OTHER APPROVED METHODS.
- AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

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 SOIL TO A DEPTH OF FOUR INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.
- FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL 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 INCHES UNLESS OTHERWISE SPECIFIED.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

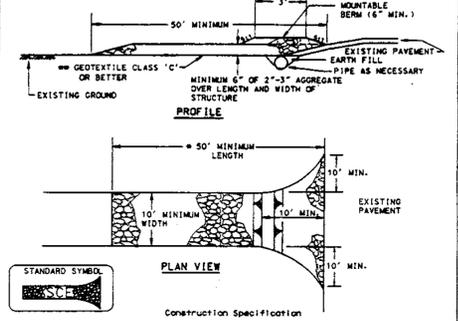
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION, PRIOR TO THE START OF ANY CONSTRUCTION AT (410) 313-1855.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) SEVEN CALENDAR DAYS FOR SEDIMENT CONTROL STRUCTURES, STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1; B) FOUR-TEEN 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 SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	=	1.2035	ACRES
AREA DISTURBED	=	1.1	ACRES
AREA TO BE ROOFED OR PAVED	=	0.96	ACRES/
AREA TO BE VEGETATIVELY STABILIZED	=	0.35	ACRES/
TOTAL CUT	=	5.44	CUBIC YARDS
TOTAL FILL	=	2.19	CUBIC YARDS
OFF-SITE WASTE/BORROW LOCATION	TO BE DETERMINED		
- 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.
- TRENCHING FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATION

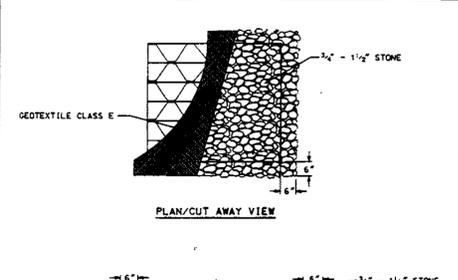
- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHEDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 LBS./1000 SQ.FT.) PRIOR TO PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 - TOPSOIL APPLICATION
 - WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
 - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALTHOUGH 4"-8" HIGHER IN ELEVATION.
 - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- THESE TOPSOIL SPECIFICATIONS HAVE BEEN EDITED FROM THE 1994 EROSION AND SEDIMENT CONTROL STANDARDS TO FIT THIS PROJECT. IT IS STILL THE INTENTION TO FOLLOW THE REFERENCED 1994 EROSION AND SEDIMENT CONTROL STANDARDS IN THEIR ENTIRETY.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



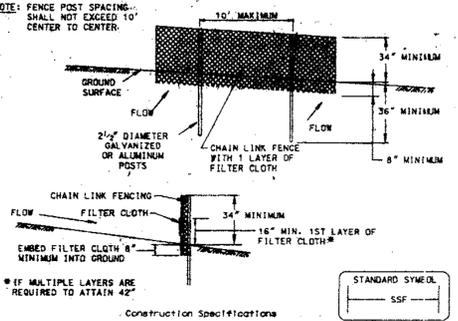
- Length - minimum of 50' (40' for single residence lots).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed or recycled 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 entrance shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a neoprene berm with 5:1 slope and a minimum of 4" of stone over the pipe. Pipe has to be sized according to the drainage. When the soil is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.
- | | | |
|---|--------------------|---|
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WATER MANAGEMENT ADMINISTRATION |
|---|--------------------|---|

DETAIL 23B - AT GRADE INLET PROTECTION



- Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.
 - Place 3/4" to 1 1/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.
- | | | |
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WATER MANAGEMENT ADMINISTRATION |
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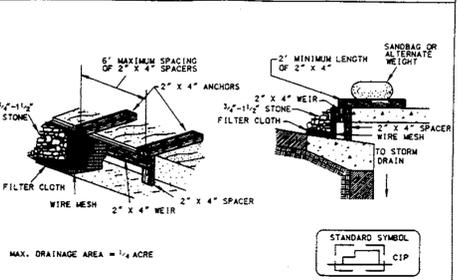
DETAIL 33 - SUPER SILT FENCE



- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wires, braces and truss rods, drive anchors and post caps are not required except at the ends of the fence.
- 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 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, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

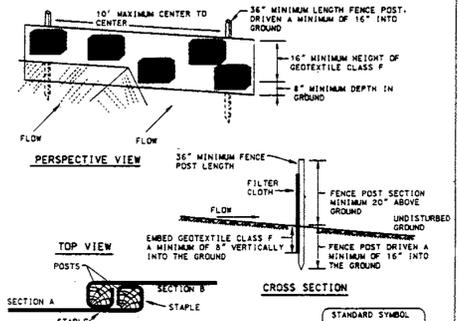
Tensile Strength	50 lbf/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbf/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

DETAIL 23C - CURB INLET PROTECTION (COG OR COS INLETS)



- Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
 - Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to a 6" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
 - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4" x 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that stone flow does not bypass the inlet by installing temporary earth or gravel dikes to direct the flow to the inlet.
- | | | |
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| U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE | PAGE
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DETAIL 22 - SILT FENCE



- 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) or 1 1/2" diameter (minimum) 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 lbf/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbf/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - 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 reaches 50% of the fabric height.
- | | | |
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| U.S. DEPARTMENT OF AGRICULTURE
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WATER MANAGEMENT ADMINISTRATION |
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SEQUENCE OF CONSTRUCTION

NO.	DESCRIPTION	TIMETABLE
1.	OBTAIN PROPER PERMITS	60 DAYS
2.	NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS & LICENSES, GRADING AND SEDIMENT CONTROL INSPECTIONS @ (410) 313-1855 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.	1 DAY
3.	CLEAR AND GRUB FOR INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.	2 DAYS
4.	INSTALL ALL SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.	3 DAYS
5.	NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS & LICENSES, GRADING AND SEDIMENT CONTROL INSPECTIONS @ (410) 313-1855 UPON COMPLETION OF SAID INSTALLATION.	1 DAY
6.	WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB THE REMAINDER OF THE SITE AS REQUIRED.	5 DAYS
7.	ROUGH GRADE SITE AS REQUIRED.	3 DAYS
8.	PROPOSED BANK BUILDING CONSTRUCTION MAY BEGIN AT THIS TIME.	60 DAYS
9.	INSTALL UTILITIES.	20 DAYS
10.	INSTALL PAVING SUBBASE.	2 DAYS
11.	INSTALL STORMDRAINS.	3 DAYS
12.	FINE GRADE LAWN AREAS & PROVIDE PERMANENT STABILIZATION.	3 DAYS
13.	PAVE PARKING AREA.	2 DAYS
14.	WITH PERMISSION OF THE GRADING & SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT & EROSION CONTROL MEASURES OR DEVICES. STABILIZE ANY AREAS DISTURBED BY THIS PROCESS.	1 DAY
15.	INSTALL LANDSCAPE MATERIALS.	3 DAYS

BY THE ENGINEER:

Paul Lee 7-27-99
SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:

Dale R. Douglas 7-29-99
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.

Sheryl Simmons 8/17/99
U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

John R. Robertson 8/17/99
HOWARD S.C.D. DATE

Date	No.	Revision Description
8/18/99		APPROVED: DEPARTMENT OF PLANNING AND ZONING
8/21/99		CHIEF-DEVELOPMENT ENGINEERING DIVISION
8/21/99		CHIEF-DIVISION OF LAND DEVELOPMENT
8/24/99		DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER DATE

TITLE

LEEDS FEDERAL SAVINGS BANK
LYNDWOOD SQUARE - PARCEL A-2
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS, PLANNERS

PH. 410-823-8070 32 WEST ROAD TOWSON, MARYLAND 21284 FAX: 410-823-2184

AREA

MARSHALEE DRIVE
PARCEL "A-2" - 1.2035 AC.±

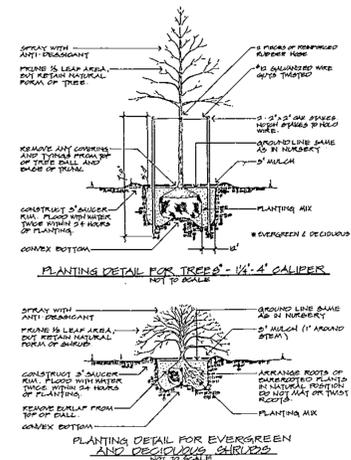
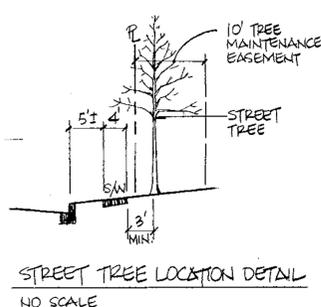
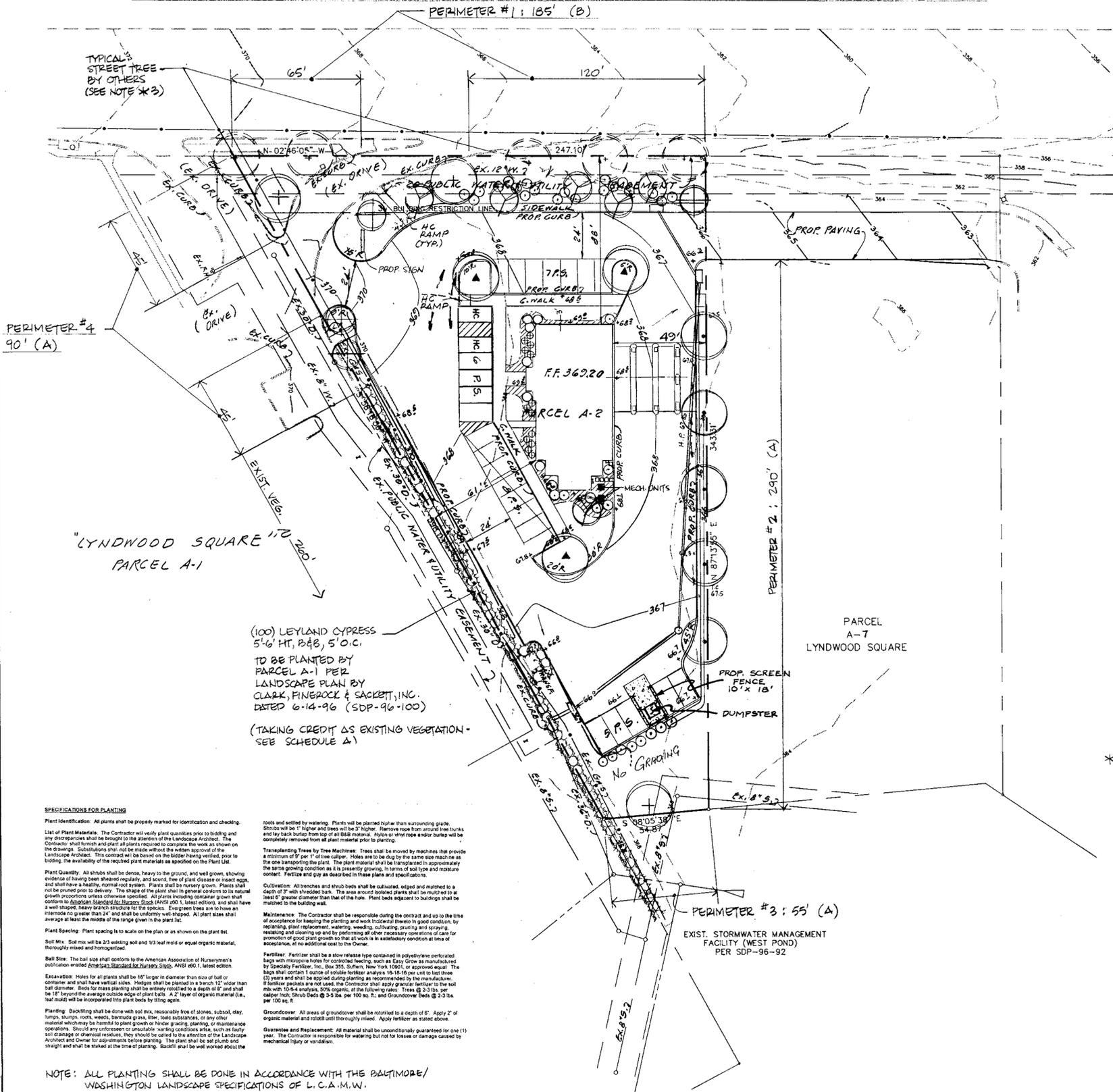
DRAWING: **SEDIMENT & EROSION CONTROL NOTES AND DETAILS**

Des By	JFB	Scale	1"=30'	Proj No	98-196.00
Des By	JFB	Date	6/28/99	DRAWING NO	
Chk By	PL	Approved			5 OF 7

2DP-99-118

MARSHALEE

DRIVE



SCHEDULE A - PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
PERIMETER #	1	2 3 4
LANDSCAPE TYPE	B	A A A
LINEAR FEET OF FRONTAGE PERIMETER	185'	290' 55' 90'
CREDIT FOR EXIST. VEGETATION	NO	NO NO NO YES: 350' 260' = 90'
CREDIT FOR WALL, FENCE OR BERM	NO	NO NO NO
NUMBER OF PLANTS REQUIRED:		(1/60)
SHADE TREES	4 (1/50)	5 1 2
EVERGREEN TREES	5 (1/40)	0 0 0
SHRUBS	0	0 0 0
NUMBER OF PLANTS PROVIDED:		
SHADE TREES	2 (*)	5 1 1
EVERGREEN TREES	SUB. 3 FLOWS	- - -
OTHER TREES (2:1)	4 = 2 (*)	- - -
SHRUBS (10:1)	20 = 2 (*)	- - -

- *1. (1) SHADE TREE FROM PERIMETER 1 MOVED TO INTERNAL AREA DUE TO SPACE LIMITATIONS ALONG FRONTAGE.
- *2. (2) FLOWERING TREES SUBSTITUTED FOR (1) SHADE TREE.
- *3. (20) SHRUBS SUBSTITUTED FOR (2) EVERGREEN TREES.

SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES : 26
 NUMBER OF TREES REQUIRED : 1.3 (1/20 SPACES)
 NUMBER OF TREES PROVIDED
 SHADE TREES : 2
 OTHER TREES (2:1 SUB) : -

PLANT LIST

KEY	QUANT.	BOTANICAL NAME COMMON NAME	SIZE	COND.	REMARKS
▲	3	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	10'-12' HT.	B#B	FULL, HEAVY, MULTI-STEM
+	3	QUERCUS PHELLOS WILLOW OAK (SPACED 40' O.C.)	2 1/2'-3' CAL.	B#B	FULL, SINGLE, STRAIGHT TRUNK, HEADED TO 7' HT.
○	5	TILIA TOMENTOSA 'GREEN MOUNTAIN' GREEN MOUNTAIN SILVER LINDEN (SPACED 40' O.C.)	2 1/2'-3' CAL.	B#B	FULL SINGLE, STRAIGHT TRUNK, HEADED TO 7' HT.
⊖	6	MALUS ZUMI CALOCARPA ZUMI CRAB	1 1/2'-2' CAL.	B#B	HEAVY SPECIMEN, FULL (SPACED MIN. 20' O.C.)
⊕	4	PRUNUS YEDOENSIS YOSHINO CHERRY	1 1/2'-2' CAL.	B#B	HEAVY SPECIMEN, FULL (SPACED MIN. 20' O.C.)
▨	900	PACHYSANDRA TERMINALIS JAPANESE PACHYSANDRA	-	2 1/4' FT	SPACE 8' O.C., STAGGERED
○	36	BUONNYMUS ALATUS 'COMPACTA' DWARF WINGED EUCONYMUS	2'-2 1/2' HT.	B#B	FULL, SPACED 5' O.C./STAGGERED
⊕	13	ILEX CRENATA 'GREEN LUSTRE' GREEN LUSTRE JAPANESE HOLLY	18"-24" HT.	#3 GAL.	FULL, SPACED 3'-0" O.C., STAGGERED
○	6	RHOODENDRON CATAMBIENSE 'CHIONOIDES' CHIONOIDES RHODODENDRON	2'-2 1/2' HT.	#3 GAL.	FULL

- NOTES:
1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 2. THE OWNER, TENANT, &/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIAL 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.
 - * 3. STREET TREES SHOWN ON THIS PLAN ARE NOT EXISTING AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. REQUIRED STREET TREES WERE INCLUDED IN THE LANDSCAPE CALCULATIONS FOR THE OVERALL SUBDIVISION PROJECT KNOWN AS LYNDWOOD SQUARE, AND IT IS OUR UNDERSTANDING THAT THE REQUIRED STREET TREES ARE TO BE PROVIDED BY THE ORIGINAL DEVELOPER OF THE SUBDIVISION. HOWEVER, NO INFORMATION WAS AVAILABLE FROM THE COUNTY REGARDING THE APPROVED ROAD PLAN SHOWING THE APPROVED STREET TREE LAYOUT. THEREFORE, THERE IS NO WAY TO DETERMINE THE QUANTITY, LOCATION, SPECIES, AND SIZE OF THE PROPOSED STREET TREES PERTAINING TO THIS PARCEL.

- PLANTING NOTES:
1. THIS PLAN IS FOR PLANTING PURPOSES ONLY.
 2. ALL PLANT MATERIAL SHALL CONFORM TO THE LATEST "AMERICAN STANDARDS FOR NURSERY STOCK", BY THE AMER. ASSOCIATION OF NURSERMEN (A.A.N.S.).
 3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES - CONTACT "MISS UTILITY" A MINIMUM OF 72 HOURS PRIOR TO DIGGING. TELEPHONE: 1-800-297-7777.
 4. NO TREE OR SHRUB PLANTING PITS SHALL BE LEFT OPEN OR UNATTENDED.
 5. SHRUBS ARE TO BE GROUPED INTO MULCHED BEDS. BERMS ARE TO BE EDGED AND THE BEDS MULCHED OR REMOVED PRIOR TO MULCHING.
 6. SEED OR SOIL ALL DISTURBED AREAS NOT SCHEDULED FOR PLANTING.

REV.	DATE	REV. PER COUNTY COMMENTS (CET)
8-24-99	2	REV. PER COUNTY COMMENTS (CET)
5-24-99	1	REV. PER COUNTY COMMENTS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 CHIEF-DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER _____ DATE _____

TITLE
LEEDS FEDERAL SAVINGS BANK
LYNDWOOD SQUARE - PARCEL A-2
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

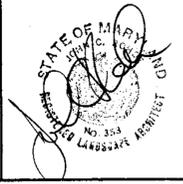
CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS
 32 WEST ROAD
 PH: 410-823-8070 TOWSON, MARYLAND 21204 FAX: 410-823-2184

AREA
MARSHALEE DRIVE
 PARCEL "A-2" - 1.2035 AC. ±

DRAWING:
LANDSCAPE PLAN

Des By LBP	Scale 1"=30'	Proj No 98-196.00
Drn By LBP	Date 2-22-99	DRAWING NO
Chk By JCR	Approved	6 OF 7

NOTE:
 FINANCIAL SUBETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT APPLICATION IN THE AMOUNT OF \$4240.00 (FOUR THOUSAND, TWO HUNDRED, FORTY & 00/100):
 (1) SHADE TREES X 300 = \$2100
 (4) SHRUBS X \$30 = 1200
 (2) EVERGREEN TREES X 150 = 300
 (46) LINEAR FEET X \$10/LF = 460
\$4240



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

Name Andrew E. Clark Date 3/23/99

SPECIFICATIONS FOR PLANTING

Plant Identification: All plants shall be properly marked for identification and checking.

List of Plant Materials: The Contractor will verify plant quantities prior to bidding and any discrepancies shall be brought to the attention of the Landscape Architect. The Contractor shall furnish and plant all plants required to complete the work as shown on the drawings. Substitutions shall not be made without the written approval of the Landscape Architect. This control will be based on the bidder having verified, prior to bidding, the availability of the required plant materials as specified on the Plant List.

Plant Quantity: All shrubs shall be dense, heavy to the ground, and well grown, showing evidence of having been sheared regularly, and sound; free of plant diseases or insect eggs and shall have a healthy, normal root system. Plants shall be nursery grown. Plants shall not be potted prior to delivery. The shape of the plant shall in general conform to its natural growth proportions unless otherwise specified. All plants including container grown shall conform to American Standards for Nursery Stock (ANSI Z60.1, latest edition), and shall have a well-shaped, heavy root structure for the species. Evergreen trees shall have an internode no greater than 2" and shall be uniformly well-shaped. All plant sizes shall average at least the middle of the range given in the plant list.

Plant Spacing: Plant spacing is to scale on the plan or as shown on the plant list.

Soil Mix: Soil mix will be 2/3 existing soil and 1/3 leaf mold or equal organic material, thoroughly mixed and homogenized.

Ball Size: The ball size shall conform to the American Association of Nurserymen's Division method for determining ball size. ANSI Z60.1, latest edition.

Excavation: Holes for all plants shall be 18" larger in diameter than size of ball or container and shall have vertical sides. Holes shall be planted in a trench 12" wider than ball diameter. Holes for trees shall be entirely rounded to a depth of 18" and shall be 18" beyond the average outside edge of plant balls. A 2" layer of organic material (i.e., leaf mold) will be incorporated into plant beds by tilling again.

Planting: Backfilling shall be done with soil mix, reasonably free of stones, subsoil, clay, lumps, clumps, roots, weeds, Bermuda grass, fiber, toxic substances, or any other material which may be harmful to plant growth or hinder grading, planting, or maintenance operations. Should any unforeseen or unanticipated conditions arise, such as faulty soil drainage or chemical residues, they should be called to the attention of the Landscape Architect and Owner for adjustment before planting. The plan shall be set plumb and straight and shall be worked at the time of planting. Backfill shall be well worked about the roots and settled by watering. Plants will be planted higher than surrounding grade. Shrubs will be 1" higher and trees will be 3" higher. Remove rope from around tree trunks and lay back burlap from top of all B&B material. Nylon or other rope and/or burlap will be completely removed from all plant material prior to planting.

Transplanting Trees by Tree Machine: Trees shall be moved by machines that provide a minimum of 1" per 1" of line caliper. Holes are to be dug by the same machine as the one transporting the plant. The plant material shall be transplanted in approximately the same growing condition as it is presently growing. In terms of soil type and moisture content: Fertilize and guy as described in these plans and specifications.

Cultivation: All trees and shrub beds shall be cultivated, edged and mulched to a depth of 3" with shredded bark. The area around isolated plants shall be mulched to at least 6" greater diameter than the top of the hole. Plant beds adjacent to buildings shall be mulched to the building wall.

Maintenance: The Contractor shall be responsible during the contract and up to the time of acceptance for keeping the planting and work incidental thereto in good condition, by re-planting, plant replacement, watering, weeding, cultivating, staking and spraying, retaining and cleaning up and by performing other necessary operations of care for promotion of good plant growth so that at work is in satisfactory condition at time of acceptance, at an additional cost to the Owner.

Fertilizer: Fertilizer shall be a slow release type contained in polyethylene perforated bags with mistoprene hoses for controlled feeding, such as Easy Grow as manufactured by Specialty Fertilizer, Inc., Box 353, Suffern, New York 10981, or approved equal. The bags shall contain 1 ounce of soluble fertilizer analysis: 16-16-16 per unit to last three (3) years and shall be applied during planting as recommended by the manufacturer. If fertilizer products are not used, the Contractor shall apply granular fertilizer to the soil mix with 10-6-4 analysis, 30% organic, at the following rates: Trees @ 2.3 lbs. per caliper inch; Shrub beds @ 3.5 lbs. per 100 sq. ft.; and Groundcover beds @ 2.5 lbs. per 100 sq. ft.

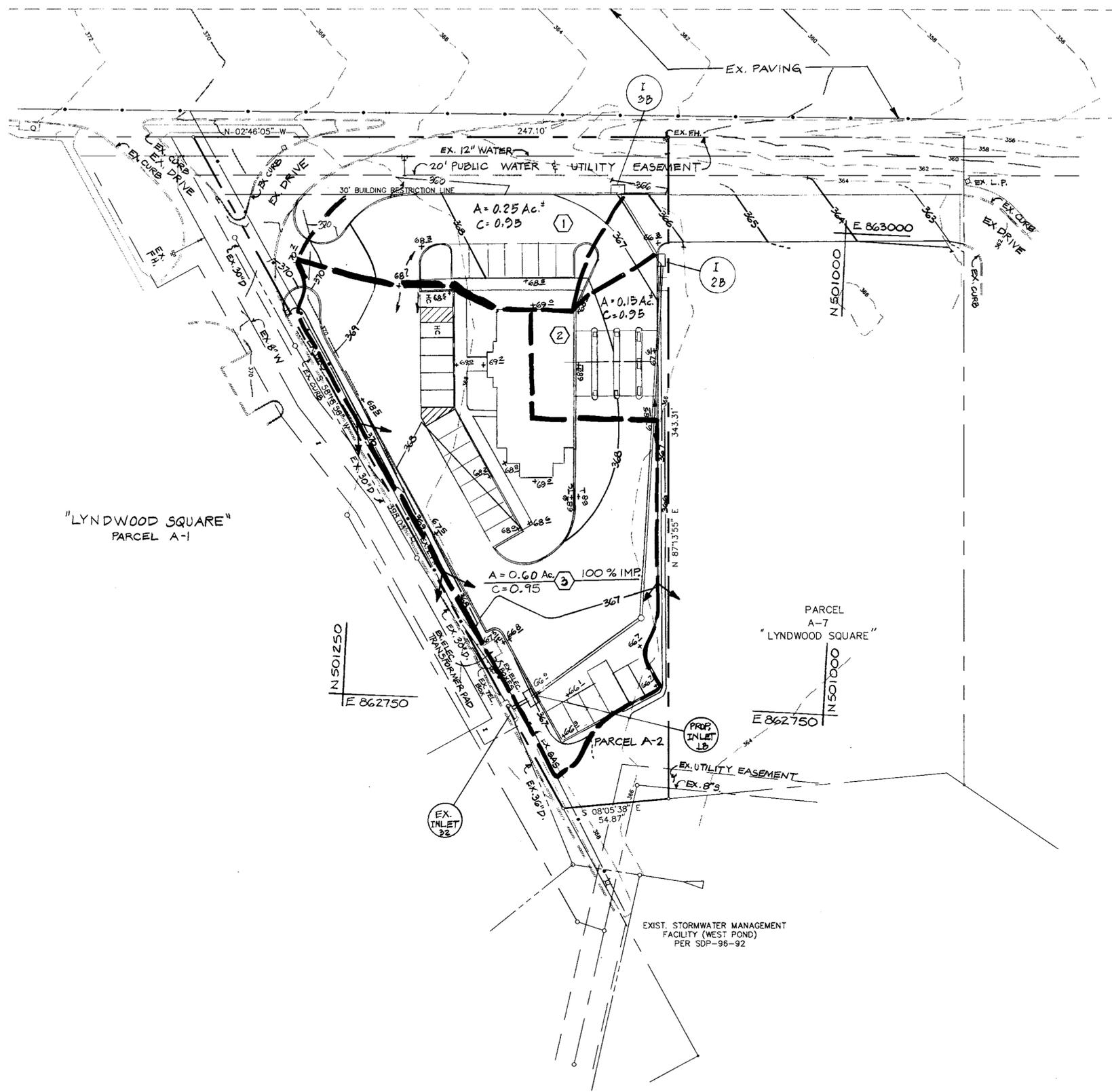
Groundcover: All areas of groundcover shall be cultivated to a depth of 6". Apply 2" of organic material and rototill thoroughly mixed. Apply fertilizer as stated above.

Guarantee and Replacement: All material shall be unconditionally guaranteed for one (1) year. The Contractor is responsible for watering but not for losses or damage caused by mechanical injury or vandalism.

NOTE: ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE BALTIMORE/WASHINGTON LANDSCAPE SPECIFICATIONS OF L.C.A.M.W.

MARSHALEE

DRIVE



"LYNDWOOD SQUARE"
PARCEL A-1

PARCEL
A-7
"LYNDWOOD SQUARE"

PARCEL A-2

EXIST. STORMWATER MANAGEMENT
FACILITY (WEST POND)
PER SDP-96-92

Date	No.	Revision Description
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
		DATE: 5/18/99
CHIEF-DEVELOPMENT ENGINEERING DIVISION		
		DATE: 5/18/99
CHIEF-DIVISION OF LAND DEVELOPMENT		
		DATE: 5/18/99
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
COUNTY HEALTH OFFICER		
DATE		
TITLE		
LEEDS FEDERAL SAVINGS BANK LYNDWOOD SQUARE - PARCEL A-2 1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
CENTURY ENGINEERING, INC.		
CONSULTING ENGINEERS, PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21284		
AREA MARSHALEE DRIVE PARCEL "A-2" - 1.2035 AC.±		
DRAWING: DRAINAGE AREA MAP		
Des By: JFB	Scale: 1"=30'	Proj No: 98-196.00
Des By: MA/JFB	Date: 6/28/99	DRAWING NO
Des By: PL	Approved:	7 OF 7

Paul Lee