TITLE SHEET

DETAIL SHEET

LANDSCAPE NOTES & DETAILS

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL. VOL. IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION" PLUS MSHA STANDARDS
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 4. 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.
- 5. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, (JANUARY 1998)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE
- 6. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY MAPS WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY AIR SURVEY CORP. FLOWN IN APRIL 1998.
- 7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 47 E4 ALONG WITH 2 TRAVERSE POINTS WERE USED FOR THIS PROJECT.
- 8. WATER IS PUBLIC, CONTRACT NO. 34-3971-D & 44-3833-D
- 9. SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATUXENT CONTRACT NO. 34-3971-D & 34-3832-D
- 10. STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MDE STORMWATER MANAGEMENT MANUAL UNDER F-01-140. PORTIONS OF OPEN SPACE LOTS 35, 36 & 39 ARE BEING USED AS NATURAL AREA CONSERVATION CREDIT AREAS, A CENTRAL PRIVATELY MAINTAINED STORMWATER WET POND IS BEING USED TO PROVIDE THE WATER QUALITY AND CHANNEL PROTECTION VOLUMES FOR THIS DEVELOPMENT.
- 11. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. 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, EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- 12. THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY DAFT McCUNE &
- 13. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY WELLS & ASSOCIATES DATED FEBRUARY 2000, AND WAS APPROVED UNDER F-01-140.
- 14. THE NOISE STUDY FOR THIS PROJECT WAS PREPARED BY CENTURY ENGINEERING DATED DATED MARCH 1999, AND WAS APPROVED UNDER F-01-140.
- 15. THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY DAFT, McCUNE & WALKER, INC.
- 16. SUBJECT PROPERTY ZONED R-ED PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- 17. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- 18. SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S .: S-00-12, WP-00-87, WP-01-39, WP-01-99, P-01-21, F-01-140, WP-02-15, F-02-15.
- 19. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- 20. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- 21. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- 22. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6"
- 23. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- 24. ALL PIPE ELEVATIONS SHOWN ARE INVERT CHEVATIONS.
- 25. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV. i.e.,

STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.

- 26. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- 27. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. III. ALL ROAD RIGHT OF WAYS ARE 40' WIDE AND 25 M.P.H.
- 28. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
- 29. ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
- 30. ALL STREET LIGHTS SHALL BE LOCATED BETWEEN 2'-0" AND 4'-0" BEHIND FACE OF CURB.
- 31. WP-00-87 A WAIVER OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.116(a)(2)(ii), WHICH PROHIBITED GRADING, REMOVAL OF VEGETATION WITHIN 75 FEET OF A STREAM, DATED JULY 21,2000. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
- 1. THE GRADING AND CLEARING ASSOCIATED WITH IMPACT AREA #1, FOR SUNBEAM PLACE TO CROSS THE STREAM, SHALL BE MINIMIZED AND COMPLY WITH THE FINAL ROAD PLANS, WHICH WILL BE REVIEWED AND APPROVED BY THE SRC AS PROPOSED BY THE DEVELOPER WITH THIS WAIVER PETITION. THE UTILITY CROSSING OF THE STREAM MUST BE COINCIDENTAL WITH THE ROAD CROSSING. AS POSSIBLE, THE DEVELOPER SHALL COMPLY WITH COMMENT #1 OF THE JUNE 1,2000, REVIEW COMMENTS FROM THE SOIL CONSERVATION DISTRICT (SCD) REGARDING ROAD DESIGN AND LOCATION, AND SHALL CONFIGURE THE ROAD SO THAT ANY REQUIRED CALMING FEATURE ALIGNS WITH THE STREAM CROSSING, AND THEREBY LESSENS THE ASSOCIATED GRADING/CLEARING.
- 2. AS INDICATED IN THE COMMENTS FROM THE SCD, THE OUTFALL ASSOCIATED WITH IMPACT AREA #2 IS TO OUTFALL AT GRADE ELEVATION 308, UNLESS THE PRESENCE OF ROCK IS FOUND DURING FIELD INVESTIGATION, IN WHICH CASE THE OUTFALL MAY BE SHIFTED TO OUTFALL AT GRADE ELEVATION 314.
- 3. THE L.O.D. FOR IMPACT AREAS #3 AND #4 SHALL BE IN ACCORDANCE WITH THEIR WAIVER EXHIBIT DATED MARCH 17,2000. NEITHER THE WATER NOR THE SEWER LINES MAY BE EXTENDED BEHIND PROPOSED LOTS 34-40 (AS SHOWN IN THE EXHIBIT DATED MAY 8, 2000). DUE TO ADDITIONAL IMPACT TO THE STREAM BUFFER. FOR IMPACT AREAS #3 AND #4, LIMIT TREE CLEARING AS MUCH AS POSSIBLE, ESPECIALLY SPECIMEN TREES, TO FURTHER DECREASE GRADING OR CLEARING, THE UTILITIES MUST BE CONSOLIDATED INTO A SINGLE EASEMENT, AS PROPOSED ON THE WAIVER EXHIBIT. (REVISED BY WP-01-99.)
- 32. WP-01-39 A WAIVER OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.146, WHICH REQUIRES THE SUBMISSION OF A PRELIMINARY PLAN AFTER A SKETCH PLAN HAD BEEN SIGNED. THE WAIVER WAS DENIED, NOVEMBER 17, 2000.
- 33. PER S-00-12, 55 ALLOCATIONS WERE RESERVED FOR PARCEL A. HOWEVER, THIS PLAN SHOWS 54 LOTS; CONSEQUENTLY, 1 TENTATIVE ALLOCATION WILL BE VOIDED.

(APPLIES FOR RESIDENTIAL SDP'S).

THE FLAG, PIPESTEM OR USE IN COMMON.

SECTION 133.D.2.a OF THE ZONING REGULATIONS.

43. OPEN SPACE REQUIREMENTS WERE PROVIDED UNDER F-01-140.

41. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS,

42. FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE

ARE PROVIDED TO THE FLAG OR PIPE STEM AND THE ROAD RIGHT OF WAY AND NOT ONTO

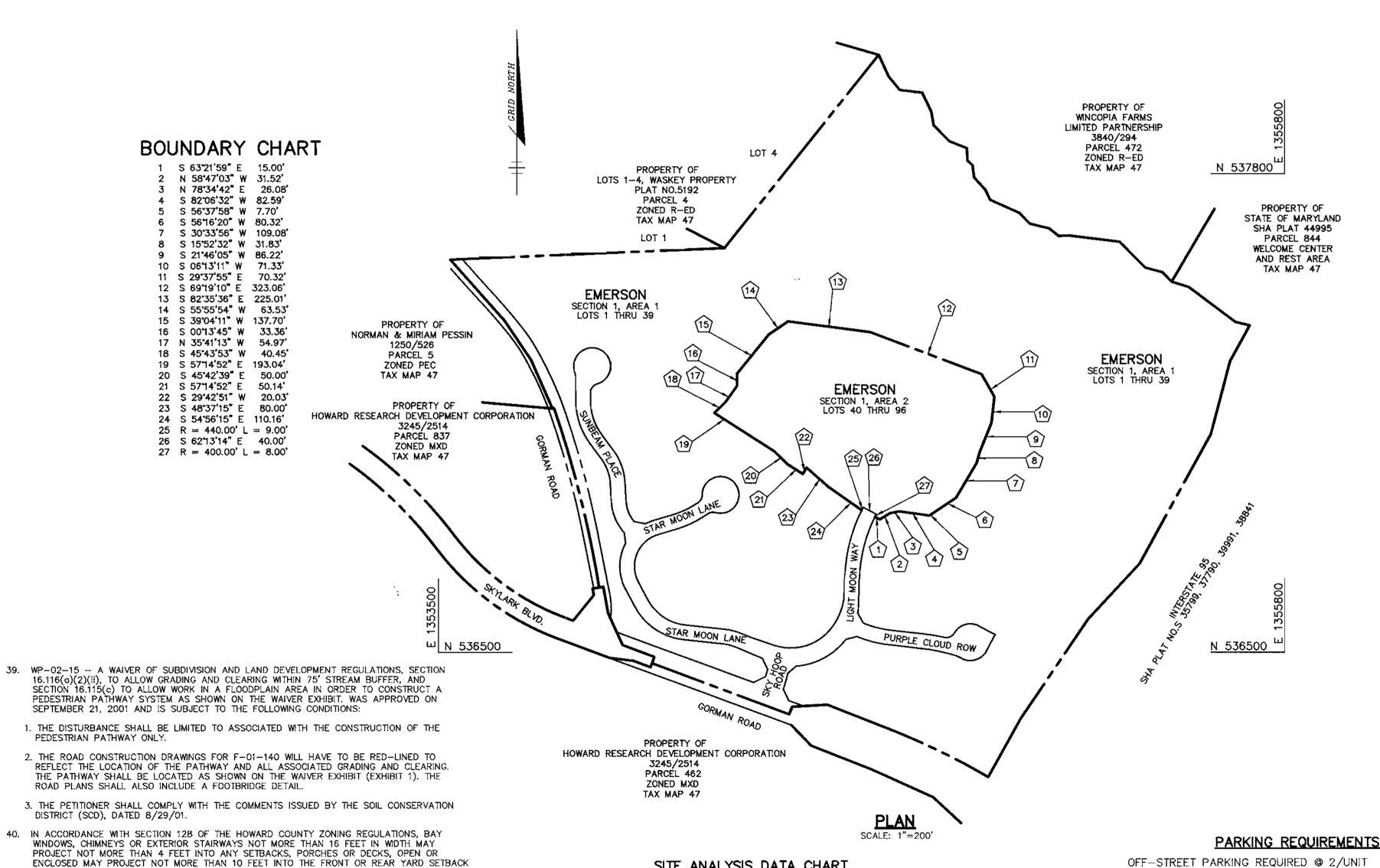
STREAM(S) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.

44. GARAGES SHALL BE USED FOR PARKING PURPOSES ONLY IN ACCORDANCE WITH

- 34. THERE ARE NO EXISTING PERMANENT STRUCTURES ON-SITE.
- WP-01-99 A WAIVER OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.115.c.(2) TO ALLOW GRADING AND CLEARING IN A FLOODPLAIN AREA, AND SECTION 16.116.a.2.(ii) TO ALLOW GRADING AND CLEARING IN A STREAM BUFFER. FOR WORK ASSOCIATED WITH THE INSTALLATION OF THE WATER AND SEWER EXTENSIONS FROM THE ADJOINING SHA REST AREA PROPERTY. THE WAIVER WAS APPROVED APRIL 6, 2001.
- 36. PERIMETER LANDSCAPING REQUIREMENTS ADDRESSED UNDER F-02-15.
- 37. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 38. THE 100 YEAR FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY PHR&A DATED JULY 2001.

SITE DEVELOPMENT PLAN

SECTION ONE LOTS 40-96 RESUBDIVISION OF PARCEL A 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



SITE ANALYSIS DATA CHART

TOTAL AREA 6.123 AC. 5.0 AC. LIMIT OF DISTURBED AREA CURRENT ZONING R-ED SINGLE FAMILY ATTACHED COMMUNITY PROPOSED USE TOTAL NUMBER OF LOTS TO BE RECORDED BUILDABLE LOTS NON-BUILDABLE LOTS OPEN SPACE

0.845 AC.

TOTAL AREA OF LOTS BUILDABLE LOTS 3.103 AC. OPEN SPACE 2.175 AC. 2.027 AC. CREDITED NON-CREDITED 0.148 AC. TOTAL AREA OF ROAD RIGHT OF WAY TO BE RECORDED

INCLUDING WIDENING STRIPS

SUBDIVISION NAME P/O 837 EMERSON BLOCK # ZONING TAX MAP NO. ELECT. DIST. CENSUS TRACT 15217-15220 3, 8 & 9 R-ED 6068.01 WATER CODE SEMER CODE

OFF-STREET PARKING PROVIDED:

ON-STREET PARKING PROVIDED

E-15

OVERFLOW/GUEST PARKING @ 0.3/UNIT

GARAGE SPACES

DRIVEWAY SPACES

108 SPACES

108 SPACES

54 SPACES

54 SPACES

17 SPACES

29 SPACES

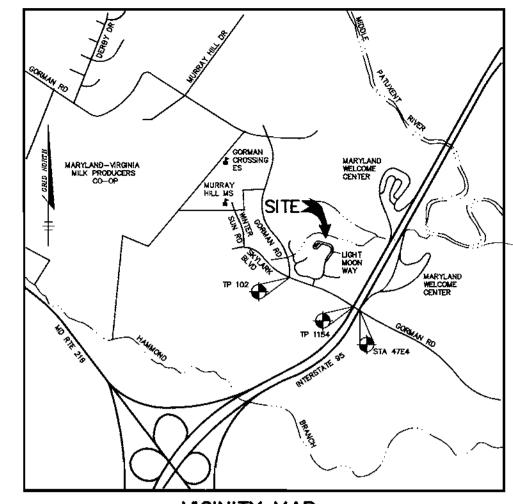
160000

BENCHMARKS

TRAVERSE POINT 102 ELEVATION 346.19 N 536.499.165 E 1,353,974.017 LOCATED NEAR THE INTERSECTION OF GORMAN ROAD AND SKYLARK BLVD.

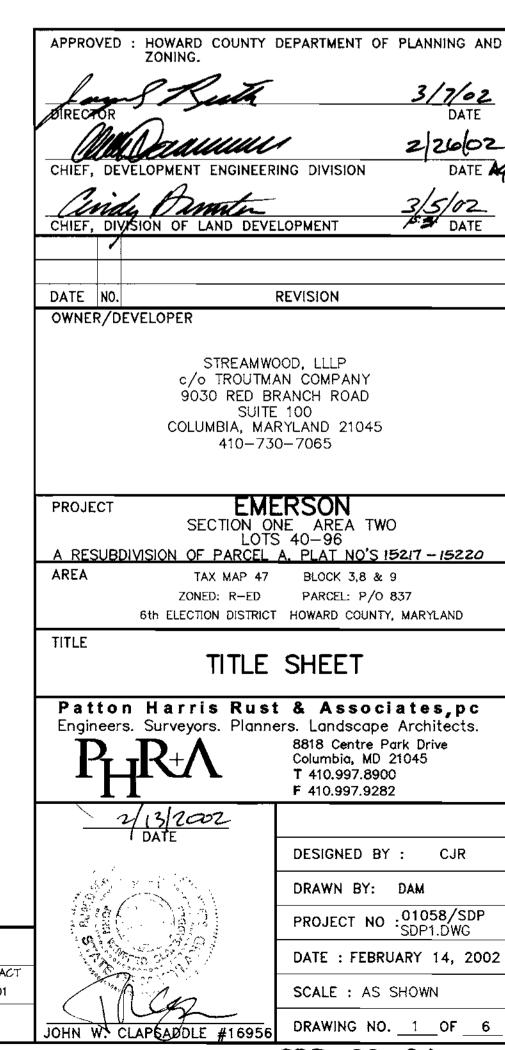
> TRAVERSE POINT 1154 ELEVATION 347.45 N 536,018.069 E 1,355,129.333 LOCATED NEAR THE I-95 BRIDGE ALONG GORMAN ROAD

CONTROL STATION 47E4 ELEVATION 339.00 N 535,846.16 E 1,355,431.23 LOCATED NEAR THE I-95 BRIDGE ALONG GORMAN ROAD



VICINITY MAP

ADDRESS CHART									
LOT NO.	S	TREET	ADDRE:	SS	LOT NO	. s	TREET	ADDRE	SS
40	8518	LIGHT	MOON	WAY	67	8580	LIGHT	MOON	WAY
4 1	8520	LIGHT	MOON	WAY	68	8582	LiGHT	MOON	WAY
42	8522	LIGHT	MOON	WAY	69	8584	LIGHT	MOON	WAY
43	8524	LIGHT	MOON	WAY	70	8588	LIGHT	MOON	WAY
44	8526	LIGHT	MOON	WAY	71	8590	LIGHT	MOON	WAY
45	8528	LIGHT	MOON	WAY	72	8592	LIGHT	MOON	WAY
46	8532	LIGHT	MOON	WAY	73	8594	LIGHT	MOON	WAY
47	8534	LIGHT	MOON	WAY	74	8596	LIGHT	MOON	WAY
48	8536	LIGHT	MOON	WAY	75	8598	LIGHT	MOON	WAY
49	8538	LIGHT	MOON	WAY	76	8599	LIGHT	MOON	WAY
50	8540	LIGHT	MOON	WAY	77		LIGHT	MOON	WAY
51	8544	LIGHT	MOON	WAY	78	8595	LIGHT	MOON	WAY
52	8546	LIGHT	MOON	WAY	79	8593	LIGHT	MOON	WAY
53	8548	LIGHT	MOON	WAY	80	8589	LIGHT	MOON	WAY
54	8550	LIGHT	MOON	WAY	81	8587	LIGHT	MOON	WAY
55	8552	LIGHT	MOON	WAY	82	8585	LIGHT	MOON	WAY
56	8554	LIGHT	MOON	WAY	83	8583	LIGHT	MOON	WAY
57	8556	LIGHT	MOON	WAY	84	8541	LIGHT	MOON	WAY
58	8560	LIGHT	MOON	WAY	85	8539	LIGHT	MOON	WAY
59	8562	LIGHT	MOON	WAY	86	8537	LIGHT	MOON	WAY
60	8564	LIGHT	MOON	WAY	87	8535	LIGHT	MOON	WAY
61	8566	LIGHT		WAY	88		LIGHT	MOON	WAY
62	8568	LIGHT	MOON	WAY	89	8523	LIGHT	MOON	WAY
63	8570	LIGHT	MOON	WAY	90	8521	LIGHT	MOON	WAY
64		LIGHT	MOON	WAY	91	8519	LIGHT		WAY
65	8576	LIGHT	MOON	WAY	92	8517	LIGHT	MOON	WAY
66	8578	LIGHT	MOON	WAY	93	8515	LIGHT	MOON	WAY



JOHN W. CLARSADDLE #16956

JOHN W. CLARSADDLE #16956

STANDARD SEDIMENT CONTROL 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 (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 RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) T CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE

4. ALL SEDIMENT TRAPS/BASING SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE 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. G.). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED

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 (PARCEL A) AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED TOTAL CUT TOTAL FILL

BY THE INSPECTION AGENCY IS MADE.

6 1 ACRES 5.0 ACRES 1.5 ACRES 3.5 ACRES 5000 CU. YARDS 5000 CU. YARDS OFFSITE WASTE AREA LOCATION TO HAVE 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 CONTROLS 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 REFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL

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.

12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.

13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.

14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials tóxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

shall have the appropriate stabilization shown on the plans.

I. This practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoli/parent material is not adequate to produce vegetative growth.

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or

furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible. II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 requirespecial consideration and design for adequate stabilization. Areas having slopes steeper than 2:1

Construction and Material Specifications I. 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 Experimentation Station.

II. Topsoll Specifications - Soil to be used as topsoll must meet the following:

1. Topsoll shall be a loam, sandy loam, clay loam, slit loam, sandy clay loam, loamy sand. Other solls may be used if recommended by an agronomist or soll scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1½" In diameter.

Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison Ivy, thistie, or others as specified.

ill. Where 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 pounds per 1,000 square feet) prior to the placement of topsoll. The shall be distributed uniformly over designated areas and worked into the soll in conjunction with tiliage operations as described in the following procedures.

II. For sites having disturbed areas under 5 acres: i. Place topsoli (If required) and apply soil amendments as specified in <u>20.0 Vegetative</u> <u>Stabilization</u> - Section ! - Vegetative Stabilization Methods and Materials.

III. For sites having disturbed areas over 5 acres: 1. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.

b. Organic content of topsoil shall be not less than 1,5 percent by weight. Topsoll having soluble salt content greater than 500 parts per milllön shall not be used d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes to amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority may be used in lieu of natural topsoil Place topsoil (if required) and apply soil amendments as specified in 20.0 Yegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

. When topsoiling, maintain needed erosion and sediment control practices such as diversions, frade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4* - 8* higher in elevation.

III. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". 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.

ly. Topsoli shall not be placed while the topsoli 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.

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below: Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5
acres shall be tested to prescribe amendments and for site having disturbed areas under 5 acres shall conform to the following requirements: a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the

invironment under COMAR 26.04.06. b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use. c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.

References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

square feet, and 1/3 the normal lime application rate.

d. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000

SEQUENCE OF CONSTRUCTION

2. THIS PROJECT MAY NOT BEGIN UNTIL ALL THE CONTROLS APPROVED UNDER F-02-15 ARE INSTALLED AND FUNCTIONING AND PERMISSION IS OBTAINED

BY THE HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR. (1 DAY)

3. INSTALL STABILIZED CONSTRUCTION ENTRANCES AND SILT FENCE. (2 DAYS) 4. BEGIN HOUSE CONSTRUCTION AND FINE GRADING. HOUSE CONSTRUCTION FOR LOTS 46-50 WILL BEGIN ONCE F-02-15 EARTH DIKE AND SEDIMENT TRAP ARE REMOVED PER HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR.

6. APPLY TOPSOIL AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 WEEK)

7. PERFORM LANDSCAPING AND COMPLETE HOUSE CONSTRUCTION. (3 WEEKS)

5. INSTALL DRIVEWAYS AS NECESSARY. (2 WEEKS)

8. UPON PERMISSION OF COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS)

BY THE DEVELOPER

1/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.

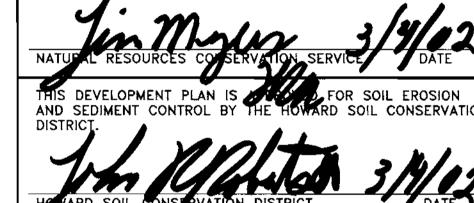
DEVELOPER , CHUCK RIEGERT

BY THE ENGINEER

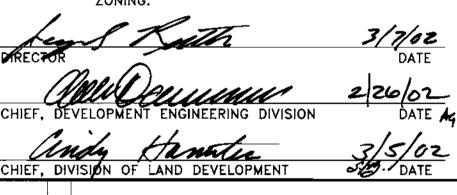
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

2/13/2002 JOHN W. CLAPSADDLE THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL

CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND



REVISION

OWNER/DEVELOPER

STREAMWOOD, LLLP c/o TROUTMAN COMPANY 9030 RED BRANCH ROAD SUITE 100 COLUMBIA, MARYLAND 21045 410-730-7065

EMERSON SECTION ONE AREA TWO LOTS 40-96 A RESUBDIVISION OF PARCEL A. PLAT NO'S 15217-15220

TAX MAP 47 BLOCK 3,8 & 9 ZONED: R-ED PARCEL: P/O 837 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DETAIL SHEET

Patton Harris Rust & Associates,pc

Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 **F** 410.997.9282

2/13/2002

JOHN W. CLAPSADDLE #16956

DESIGNED BY: DRAWN BY: DAM

PROJECT NO :01058/SDP SDP4.DWG DATE: FEBRUARY 14, 2002

SCALE : AS SHOWN DRAWING NO. 4 OF 6

SCOTT R. WOLFORD#797

SDP-02-34

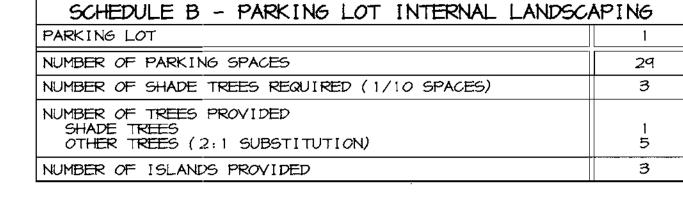
Shade Trees	Shade Trees PLANT SCHEDULE						
Code Name	Quantity	Scientific Name	Common Name	Planting Size	Spacing		
Acru	4	Acer rubrum 'Red Sunset'	Red Sunset red maple	2.5"-3" Cal.	as shown		
AcsaG	5	Acer saccharum 'Green Mountain'	Green Mountain sugar maple	2.5"-3" Cal.	as shown		
FramA	1	Fraxinus americana 'Autumn Purple'	Autumn Purple white ash	2.5"-3" Cal.	as shown		
FrpeM	3	Fraxinus pennsylvanica 'Marshall'	Marshall's seedless green ash	2.5"-3" Cal.	as shown		
Gltrl	5	Gleditsia triacanthos inermis 'Imperial'	!mperial thornless honeylocust	2.5"-3" Cal.	as shown		
List	4	Liquidambar styraciflua	American sweetgum	2.5"-3" Cal.	as shown		
Quco	2	Quercus coccinea	Scarlet oak	2.5"-3" Cal.	as shown		
Quph	3	Quercus phellos	Willow oak	2.5"-3" Cal.	as shown		
Quru	4	Quercus rubra	Northern red oak	2.5"-3" Cal.	as shown		
Soja	3	Sophora japonica	Japanese pagoda tree	2.5"-3" Cal.	as shown		

Evergreen Trees								
Code Name	Quantity	Scientific Name	Common Name	Planting Size	Spacing			
Cede	2	Cedrus deodara	Deodar cedar	6'-8' ht.	as shown			
Piab	11	Picea abies	Norway spruce	6'-8' ht.	as shown			
Pist	7	Pinus strobus	Eastern white pine	6'-8' ht.	as shown			

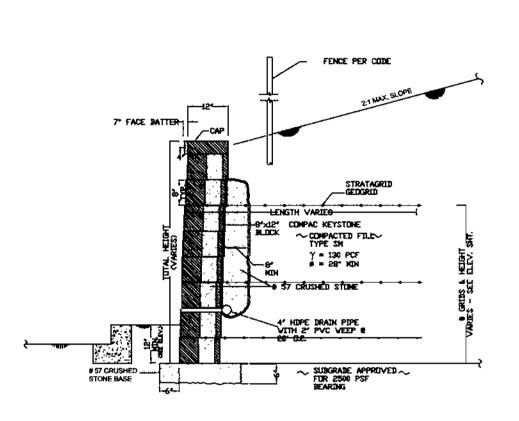
Ornamental	Trees				
Code Name	Quantity	Scientific Name	Common Name	Planting Size	Spacing
Amcan	3	Amelanchier canadensis	Shadblow serviceberry	8' - 10' ht.	as shown
Cofl	2	Cornus florida	Flowering dogwood	8' - 10' ht.	as shown
Coko	5	Cornus Kousa	Kousa dogwood	8' - 10' ht.	as shown
CrlaC	3	Crataegus laevigata 'Crimson Cloud'	Crimson Cloud hawthorn	1.5"-2" Cal	as shown
Crph	1	Crataegus phaenopyrum	Washington hawthorn	1.5"-2" Cal	as shown
Mast	2	Magnolia stellata	Star magnolia	6'-8' ht.	as shown
PrceT	4	Prunus cerasifera 'Thundercloud'	Thundercloud purpleleaf plum	1.5"-2" Cal	as shown
PrseK	5	Prunus serrulata 'Kwanzan'	Kwanzan cherry	1.5"-2" Cal	as shown
Prye	6	Prunus yedoensis	Yoshino Cherry	1.5"-2" Cat	as shown

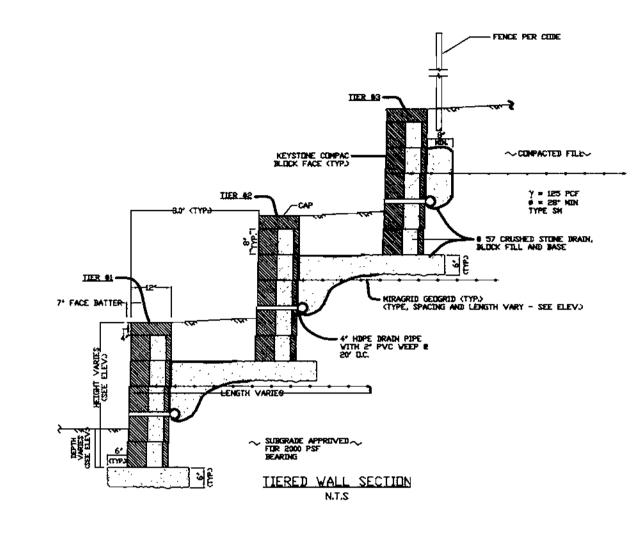
Shade Trees STREET TREE SCHEDULE						
Code Name	Quantity	Scientific Name	Common Name	Planting Size	Spacing	
Acru	26	Acer rubrum 'Red Sunset'	Red Sunset red maple	2.5"-3" Cal.	as shown	
Gitri	17	Gleditsia triacanthos inermis 'Imperial'	Imperial thornless honeylocust	2.5"-3" Cal.	as shown	

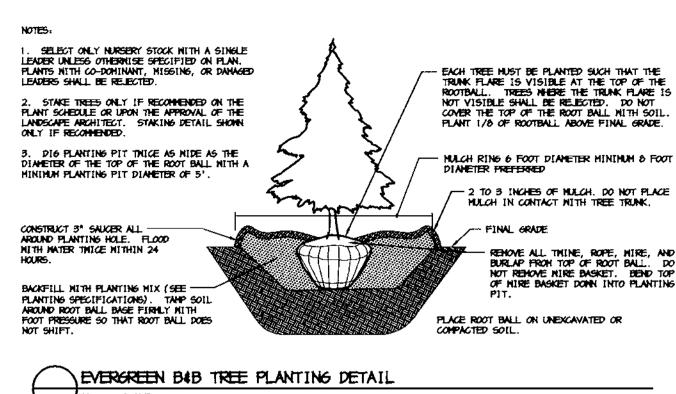
* PLANT QUANTITIES SHOWN IN THE ABOVE STREET TREE SCHEDULE ARE BONDED UNDER F-02-15 (SEE F-02-15 TITLE SHEET, GENERAL NOTE #31).

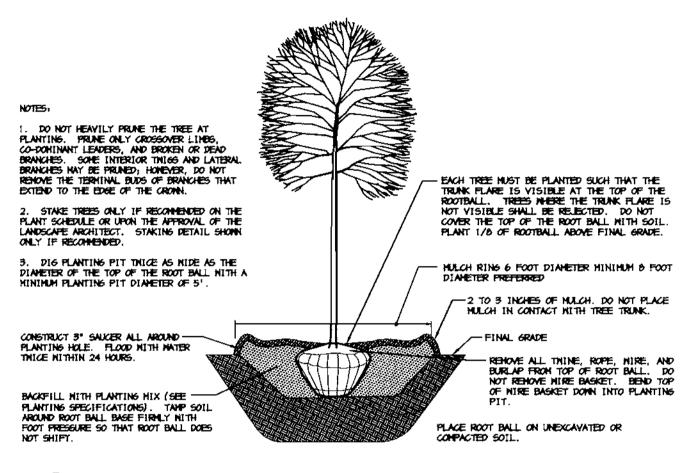


SCHEDULE C - RESIDENTIAL DEVELOPMENT INTERNAL LAND	SCAPING
NUMBER OF DWELLING UNITS	54
NUMBER OF SHADE TREES REQUIRED (1/1 SFA)	54
NUMBER OF TREES PROVIDED SHADE TREES OTHER TREES (2:1 SUBSTITUTION)	31 46







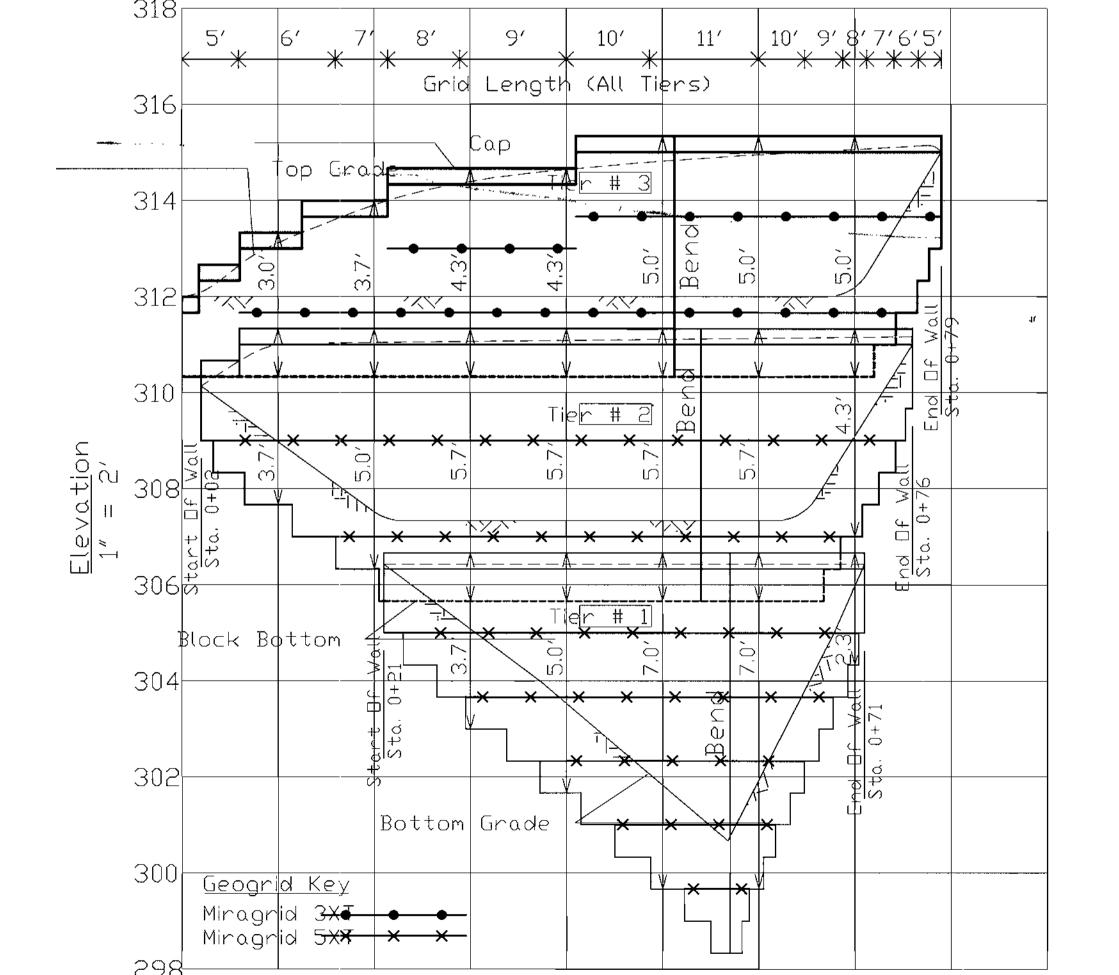


DECIDUOUS B&B TREE PLANTING DETAIL NOT TO SCALE

PLANTING SPECIFICATIONS

- 1. Piants, related material, and operations shall meet the detailed description, as given on the plans and as described herein. Where discrepancies exist between Standards 4 Guidelines referenced within these specifications and the Howard County Landscape Manual, the latter takes precedence.
- 2. All plant material, unless otherwise specified, that is not nursery grown, uniformly branched, does not have a vigorous root system, and does not conform to the most recent edition of the American Association of Nurserymen (AAN) Standards will be rejected. Plant material that is not healthy, vigorous, free from defects, decay, disfiguring roots, sunscald injuries, abrasions of the bank, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements will be rejected. Plant material that is weak or which has been out back from larger grades to meet specified requirements will be rejected. Trees with forked leaders with be rejected. All B & B plants shall be freshly dug; no healed-in plants or plants from cold storage will be accepted.
- 3. Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to the most recent edition of the "Landscape Specification Guidelines by the Landscape Contractors Association of MD, DC, \$ VA*, (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects
- 4. Contractor shall guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section on the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.
- 5. Contractor shall be responsible for notifying all relevant and appropriate utility companies, utility contractors, and "Miss Utility" a minimum of 40 hours prior to the beginning of any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Major changes will require the approval of the landscape architect. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.
- 6. Protection of existing vegetation to remain shall be accomplished via the temporary installation of 4 foot high snow fence at the drip line, see detail.
- 7. Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within growing season of completion of site construction. Do not plant Pinus strobus or XCupressacyparis legiandil between November 15 and March 15. Landscape plants are not to be installed before site is graded to final grade.
- 8. Contractor to regrade, fine grade, sod, hydroseed and straw mulch all areas disturbed by their work.
- 9. Bid shall be based on actual site conditions. No extra payment shall be made for work arising from actual site conditions differing from those indicated on drawlings and specifications.
- 10. Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence. Where discrepancies on the plan exist between the symbols and the callout leader, the number of symbols take precedence.
- 11. All shrubs and groundcover areas shall be planted in continuous planting beds, prepared as specified, unless otherwise indicated on plans.

 (See Specification 13). Beds to be mulched with minimum 2* and maximum 3* of composted, double-shredded hardwood mulch throughout.
- 12. Positive drainage shall be maintained on planting beds (minimum 2 percent slope).
- 13. Bed preparation shall be as follows: Till into a minimum depth of 6" i yard of Compro or Leafgro per 200 SF of planting bed, and i yard of topsoll per 100 SF of bed. Add 3 lbs of standard 5-10-5 fertilizer per cubic yard of planting mix and till. Ericaceous plants (Azaleas, Rhododendrons, etc.): top dress after planting with Iron sulfate or comparable product according to package directions. Taxus baccata 'Repandens' (English weeping yews): Top dress after planting with 1/4 to 1/2 cup lime each.
- 14. Planting mix: For trees not in a prepared bed, mix 50% Compro or Leafgro with 50% soil from tree hole to use as backfill, see tree planting detail.
- 15. Meed 4 insect control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. For tree planting, apply a pre-emergent on top of soil and root ball before mulching. Caution: For areas to be planted with a ground cover, be sure to carefully check the chemical used to assure its adaptability to the specific groundcover to be treated. Maintain the mulch weed-free for the extent of the warranty period. Under no circumstances is a pesticide containing chloropyrifos to be used as a means of pest control.
- 16. Mater: All plant material planted shall be watered thoroughly the day of planting. All plant material not yet planted shall be properly protected from drying out until planted. At a minimum, water unplanted plant material daily and as necessary to avoid dessication.
- 17. Pruning: Do not heavily prune trees and shrubs at planting. Prune only broken, dead, or diseased branches.
- 18. All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded, grass seed planted, and covered with straw mulch.



0+30 0+40 0+50 0+60 0+70 0+80

GENERAL 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) FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$17,850.

 34 SHADE TREES @ \$300 = 10.200
- 31 ORNAMENTAL TREES @ \$150 = 4,650 20 EVERGREEN TREES @ \$150 = 3,000
- 3) THIS PLANT IS FOR LANDSCAPING PURPOSES ONLY.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- 5) ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 6) ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF *LANDSCAPE SPECIFICATION GUIDELINES* PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
- 7) AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS SHALL BE OF THE PROPER HEIGHT AND/OR SPREAD REQUIREMENTS IN ACCORDANCE WITH THIS PLAN AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- 8) NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS LANDSCAPE PLAN MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL "REDLINE REVISION" TO THE SITE DEVELOPMENT PLAN(S) AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.

DEVELOPER'S/BUILDER'S CERTIFICATE:

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

West Signet 2/13/ IRE CHUCK RIEGERT DA APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. DATE A CHIEF. DIVISION OF LAND DEVELOPMENT DATE NO. REVISION OWNER/DEVELOPER STREAMWOOD, LLLP c/o TROUTMAN COMPANY 9030 RED BRANCH ROAD SUITE 100 COLUMBIA, MARYLAND 21045 410-730-7065 **EMERSON** SECTION ONE AREA TWO LOTS 40-96 A RESUBDIVISION OF PARCEL A. PLAT NO'S 15217-15220 TAX MAP 47 BLOCK 3,8 & 9 ZONED: R-ED PARCEL: P/O 837 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND LANDSCAPE NOTES & DETAILS

8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282

Patton Harris Rust & Associates,pc

Engineers. Surveyors. Planners. Landscape Architects.



DESIGNED BY: D.M.D.

DRAWN BY: G.T.H.

PROJECT NO: 01058/SDP
SDP6.DWG

DATE: FEBRUARY 14, 2002

SCALE: 1" = 30'

SDP-02-34

DRAWING NO. 6 OF 6