

LEGEND

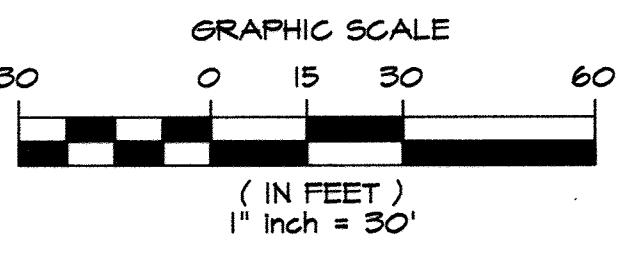
- DECIDUOUS SHADE TREE
- DECIDUOUS UNDERSTORY TREE
- EVERGREEN TREE
- SHRUBS
- EASEMENT LINE FOR PARALLEL SEWER
- WATERS OF THE U.S.

PLANTING SCHEDULE

KEY	QTY	BOTANICAL / COMMON NAME	SIZE	CONDITION	COMMENT
MAJOR DECIDUOUS TREES					
AR	5	ACER RUBRUM / RED MAPLE	2.5" - 3" CAL.	B4B	FULL CROWN, SINGLE LEADER
LS	4	LIQUIDAMBAR STYRACIFLUA / SHEETGUM	2.5" - 3" CAL.	B4B	FULL CROWN, SINGLE LEADER
PA	10	PLATANUS X ACERIFOLIA / LONDON PLANETREE	2.5" - 3" CAL.	B4B	FULL CROWN, SINGLE LEADER
QP	5	QUERCUS PHELLOS / WILLOW OAK	2.5" - 3" CAL.	B4B	FULL CROWN, SINGLE LEADER
MINOR DECIDUOUS TREES					
AC	7	AMELANCHIER CANADENSIS / SERVICEBERRY	5' - 6' HT.	B4B	MULTISTEM. 3 STEMS MIN, 5 STEMS MAX.
CC	13	CERCIS CANADENSIS / REDBUD	1" - 1.5" CAL.	B4B	FULL CROWN
CF	7	CORNUS FLORIDA VAR. RUBRA 'CHEROKEE BRAVE' / CHEROKEE BRAVE DOGWOOD	1" - 1.5" CAL.	B4B	FULL CROWN
MV	7	MAGNOLIA VIRGINIANA / SWEETBAY MAGNOLIA	5' - 6' HT.	B4B	MULTISTEM. 3 STEMS MIN, 5 STEMS MAX.
PS	5	PRUNUS SERRULATA 'KWANZAN' / KWANZAN CHERRY	1" - 1.5" CAL.	B4B	FULL CROWN
EVERGREEN TREES					
IO	7	ILEX OPACA 'MISS HELEN' / MISS HELEN AMERICAN HOLLY	6' - 8' HT.	B4B	MATCHED SPECIMENS; SINGLE LEADER
SHRUBS					
IV	20	ILEX VERTICILLATA 'WINTER RED' / WINTER RED WINTERBERRY	1.5' - 2' HT.	# 3 CONT.	PLANT 1' O.C., 1 MALE PER 5 FEMALES
LB	21	LINDERA BENZOIN / SPICEBUSH	1.5' - 2' HT.	# 3 CONT.	PLANT 1' O.C.
VD	7	VIBURNUM DENTATUM 'AUTUMN JAZZ' / AUTUMN JAZZ ARROWWOOD VIBURNUM	1.5' - 2' HT.	# 3 CONT.	PLANT 1' O.C.

NOTES:

- FOUR BLOSSOMS OF HOPE KWANZAN CHERRIES ARE PLANTED ON THE WEST CORNER OF THE INTERSECTION OF FOUNDRY STREET AND GORMAN ROAD. ALL PROPOSED PLANTINGS SHALL BE COORDINATED WITH THESE FOUR EXISTING TREES AND PROPOSED PLANTING LOCATIONS SHALL BE RELOCATED IN THE FIELD AS NECESSARY. ALL FIELD CHANGES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT AND HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS.
- SEED MIX FOR ALL DISTURBED AREAS. SEED MIX TO BE ERNST CONSERVATION SEED COMMERCIAL CONSERVATION SEED MIX OR APPROVED EQUAL APPLIED AT RATE OF 75 - 150 LBS PER ACRE OR 3 - 5 LBS PER 1000 SQ FEET. CONTACT ERNST CONSERVATION SEED AT (814) 336-2402.
- GREENLEAF VARIETY OF MISS HELEN AMERICAN HOLLY IS NOT ACCEPTABLE.
- TREES ARE TO BE LOCATED A MINIMUM OF 10-FEET FROM THE CENTERLINE OF THE EXISTING WATER AND SEWER UTILITIES.
- ALL PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE DEPARTMENT OF RECREATION AND PARKS LANDSCAPE ARCHITECT.
- MOST EXCESS PLANT MATERIAL PURCHASED AS PART OF THIS CONTRACT WILL BE PLANTED IN A SUITABLE LOCATION THAT HAS BEEN DESIGNATED BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. PLANT MATERIAL IS AS FOLLOWS:
 - 3 LIQUIDAMBAR STYRACIFLUA
 - 3 AMELANCHIER CANADENSIS
 - 4 CERCIS CANADENSIS
 - 3 QUERCUS PHELLOS
 - 2 MAGNOLIA VIRGINIANA
 - 10 ILEX OPACA (THESE MAY BE NOT BE PLANTED AND MAY BE USED AS CREDIT ON THIS CONTRACT)



PLOTTED: 10/25/11 on Monday, February 27, 2012
 BY: Andrea Lake, Division P086, Land Develop. Emp.
 FILE: H:\2005\0105\443\02\Phase II\Drawings\PHRA Contract 2 Planting Plans\As-Built Plan-Foundry.ctb

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10/27/11
DIRECTOR OF PUBLIC WORKS

[Signature] 9/23/11
CHIEF, BUREAU OF ENGINEERING

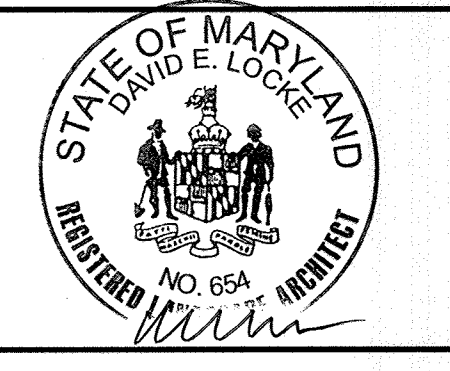
[Signature] 9/23/11
CHIEF, BUREAU OF UTILITIES

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ENGINEERS
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DES:	AEL	1	REVISED DUE TO AGENCY COMMENT AND REVIEW	11/15/11
	AEL	2	REVISED FOR AS-BUILT SUBMISSION	2/21/12
DRN:	AEL			
CHK:	DEL			
DATE:	2/21/12	BY	NO.	REVISION

DATE	600' SCALE MAP NO.	47	BLOCK NO.	18
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AS BUILT PLAN - FOUNDRY STREET

CAPITAL PROJECT No. S-6175
CONTRACT No. 20-4532

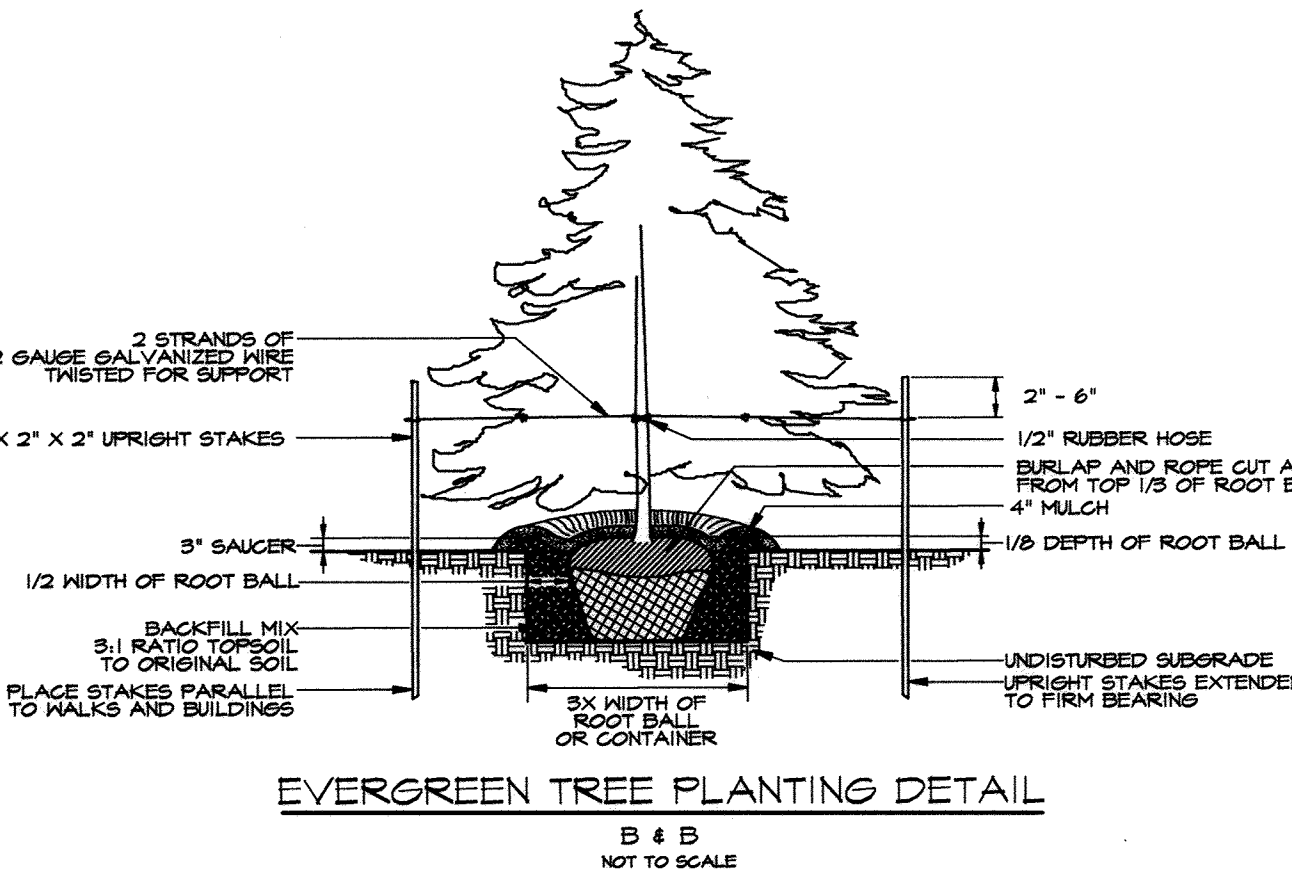
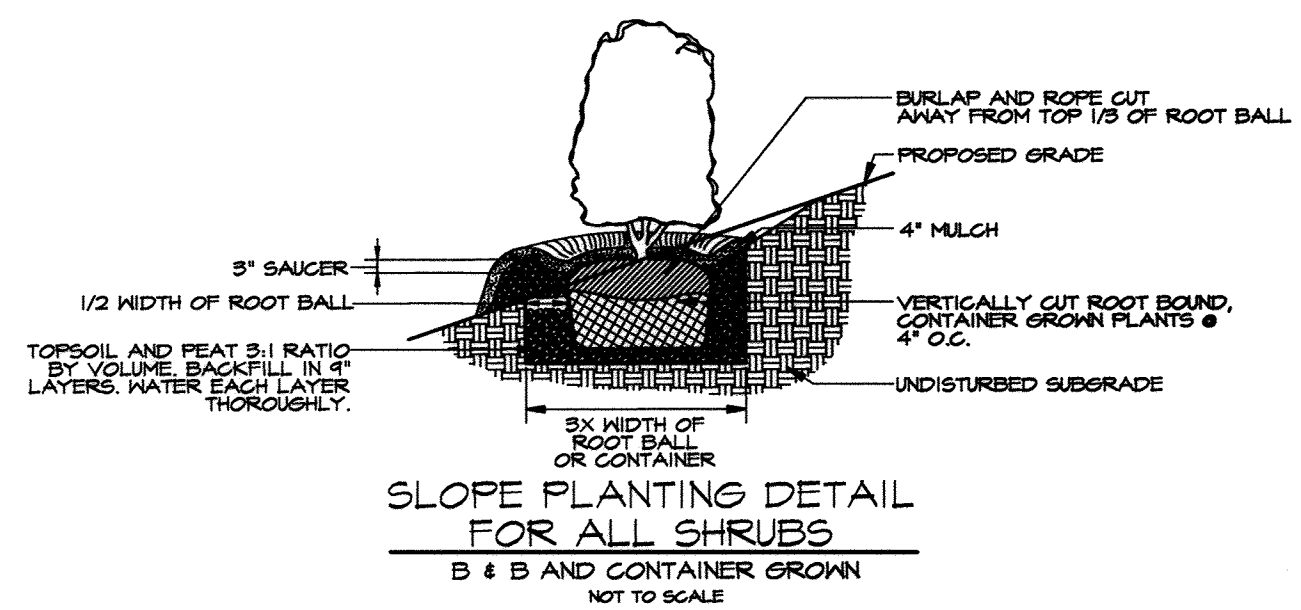
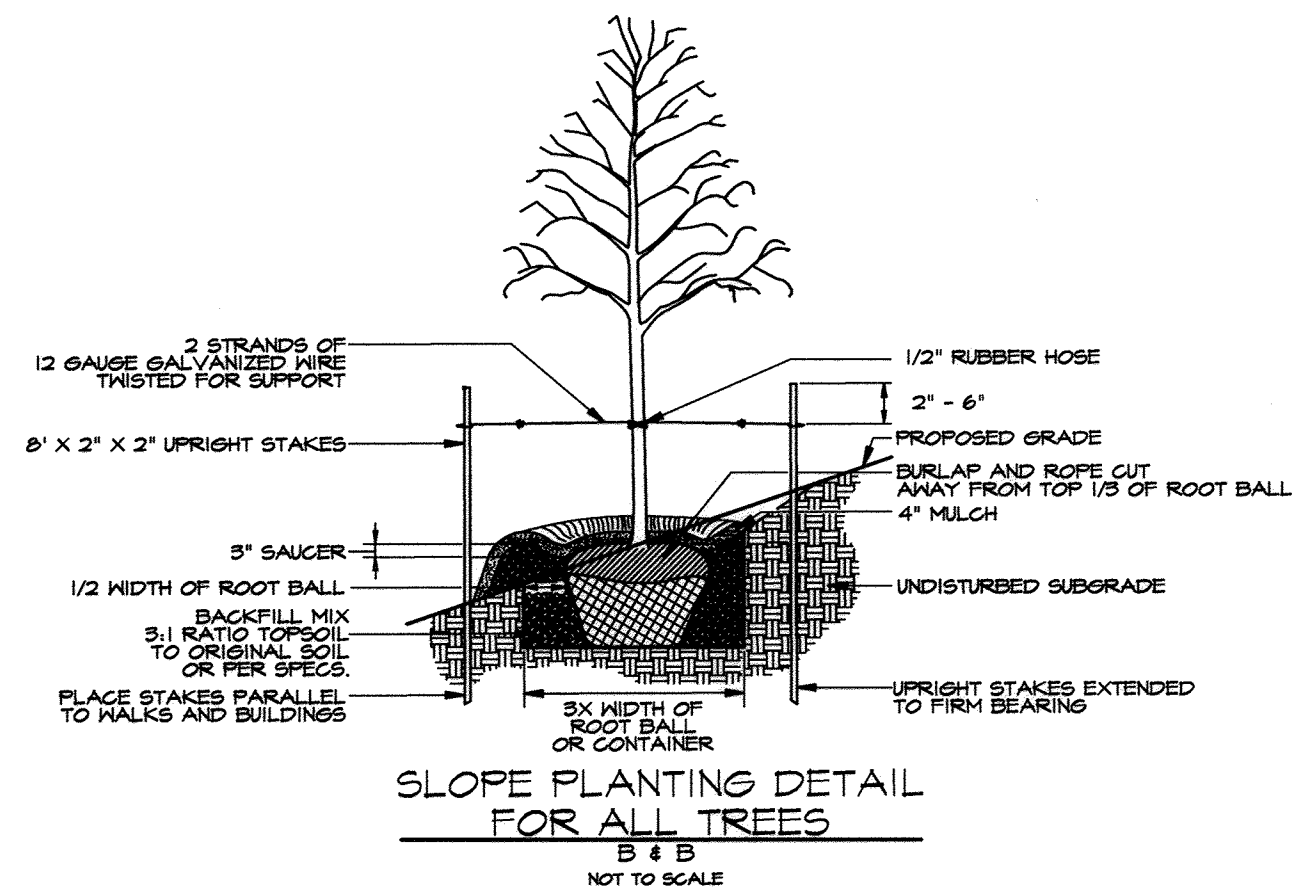
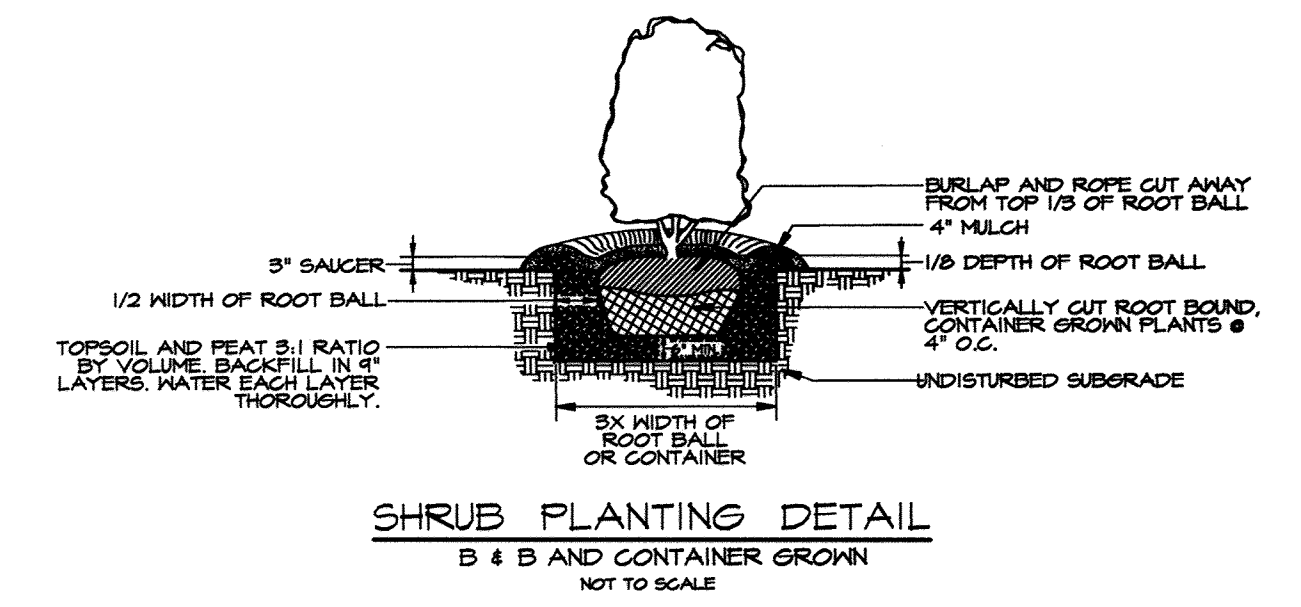
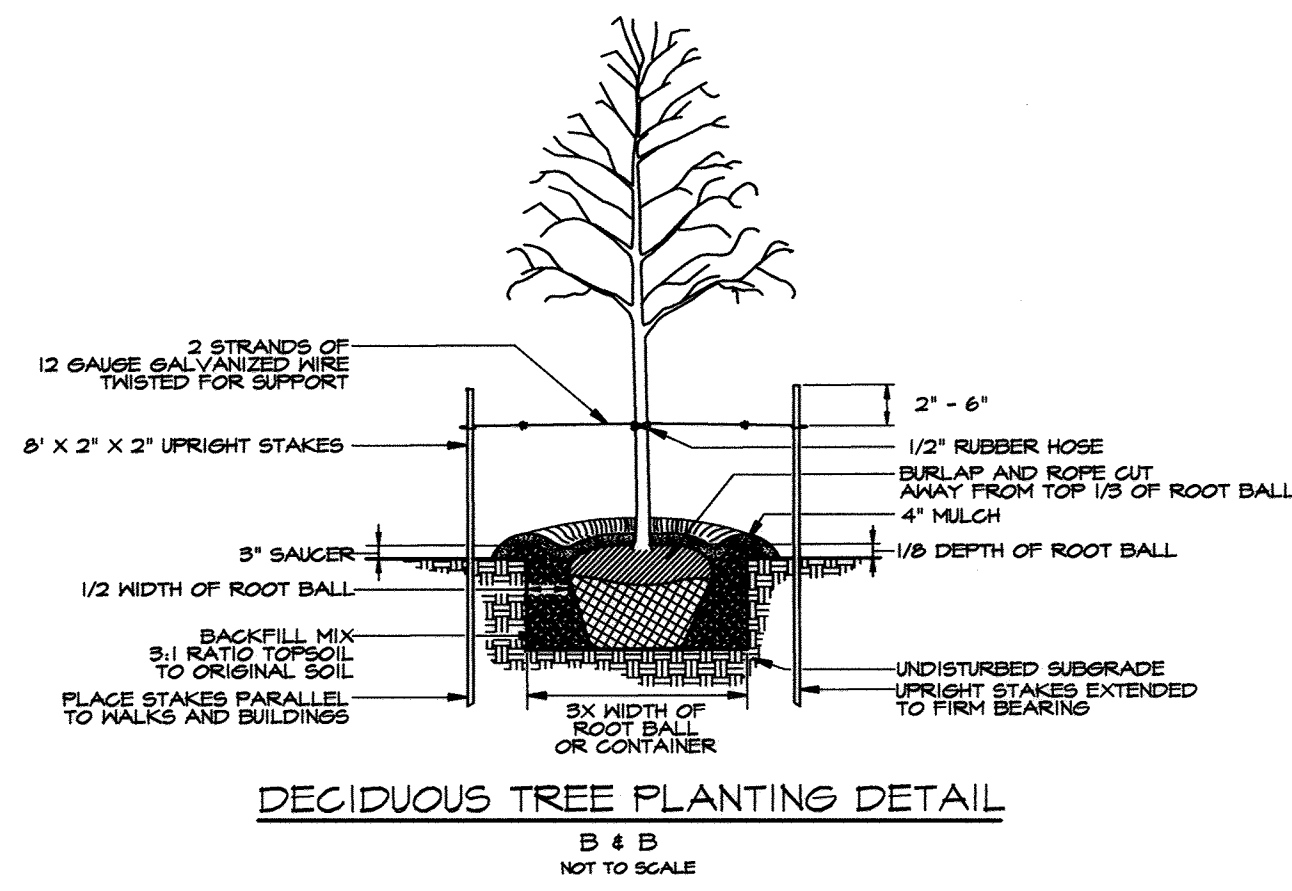
ELECTION DISTRICT NO. 3 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 26 OF 21

As-Built

GENERAL NOTES

- THIS PLAN IS FOR LANDSCAPE PURPOSES ONLY.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OR LANDSCAPE ARCHITECT OF ANY DEVIATION FROM THE PLANS PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION OF THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OR LANDSCAPE ARCHITECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE DEPARTMENT OF RECREATION AND PARKS LANDSCAPE ARCHITECTS.
- IF A CONFLICT EXISTS BETWEEN DRAWINGS (AND/OR SPECIFICATIONS), THE MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY. ITEMS SHOWN ON THE DRAWINGS, BUT NOT SPECIFIED, SHALL APPLY AND BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF ANY ITEM IS SHOWN ON THE DRAWINGS, BUT NOT INCLUDED IN THE SPECIFICATIONS, PROVIDE ITEM OF QUALITY LEVEL CONSISTENT WITH THE GENERAL QUALITY LEVEL OF THE CONTRACT REQUIREMENTS. BRING CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT IMMEDIATELY.
- THE CONTRACTOR SHALL INSURE THAT HIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS.
- DURING PLANTING OPERATIONS, EXCESS WASTE MATERIALS SHALL BE REMOVED DAILY FROM THE SITE. THE CONTRACTOR SHALL DISPOSE OF STUMPS AND MAJOR ROOTS OF ALL PLANTS TO BE REMOVED. DEPRESSIONS CAUSED BY REMOVAL OPERATIONS SHALL BE RE-FILLED WITH FERTILE, FRIABLE SOIL, REPLACED AND COMPACTED SO AS TO REESTABLISH PROPER GRADE FOR NEIGH PLANTING.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" FOR UNDERGROUND UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO THE LANDSCAPE INSTALLATION.
- THE CONTRACTOR SHALL NOTIFY THE FACILITY MANAGER, OR OWNER, A MINIMUM OF THREE WORKING DAYS PRIOR TO PLANTING AND CONSTRUCTION FOR AS-BUILT DRAWINGS FOR UNDERGROUND UTILITIES AND IRRIGATION SYSTEM LINES, VALVES, LATERALS AND DRIP TUBING.
- THE CONTRACTOR IS ADVISED OF THE EXISTENCE OF UNDERGROUND UTILITIES ON THE SITE. THEIR EXACT LOCATION SHALL BE VERIFIED IN THE FIELD WITH THE OWNER OR GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY DIGGING OPERATIONS. IN THE EVENT THEY ARE UNCOVERED, THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO UTILITIES AND SUCH DAMAGE SHALL NOT RESULT IN ANY ADDITIONAL EXPENSES TO THE OWNER. HAND EXCAVATE TO FULL DEPTH OF INSTALLATION OR UNTIL UTILITY IS FOUND.
- IF UTILITY LINES ARE ENCOUNTERED IN THE EXCAVATION OF TREE PITS, OTHER LOCATIONS FOR TREES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION. NO CHANGES OF LOCATION SHALL BE MADE WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
- EVERY POSSIBLE SAFEGUARD SHALL BE TAKEN TO PROTECT BUILDING SURFACES, LIGHTING, TRELLISES, EQUIPMENT, AND FURNISHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PERSONNEL OR PROPERTY WHICH MAY OCCUR AS A CONSEQUENCE OF THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL STAKE ALL INDIVIDUAL SPECIMEN MATERIAL LOCATED ON THE SITE FOR REVIEW AND/OR ADJUSTMENT BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. SHRUBS AND TREES SHALL BE TAGGED WITH COLOR CODED WIRE SURVEY FLAGS. SURVEYOR GROUND PAINT SHALL BE USED TO MARK OUT GROUND COVER BEDS. ALL LOCATIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE PLANTING.
- PLANTS SHALL CONFORM TO CURRENT "AMERICAN STANDARDS FOR NURSERY STOCK" PARTICULARLY WITH REGARD TO SIZE, GROWTH SIZE OF BALL, AND DENSITY OF BRANCH STRUCTURE. PLANT MATERIAL SHALL BE TAGGED AT THE SOURCES BY THE LANDSCAPE ARCHITECT UNLESS THIS REQUIREMENT IS SPECIFICALLY WAIVED. REFERENCE "ANSI Z60.1-2004" (OR MOST CURRENT DOCUMENT AVAILABLE AT WWW.ANLA.ORG).
- PLANTING MIX - ADJUST AS RECOMMENDED BY THE SOIL LABORATORY.
 - PLANTING MIX SHALL BE PREPARED AT APPROVED ON-SITE STAGING AREA USING APPROVED ON-SITE EXISTING SOIL. MIX MINIMUM QUANTITIES OF 20 CUBIC YARDS OR SUFFICIENT MIX FOR ENTIRE JOB IF LESS THEN 20 CUBIC YARDS IS REQUIRED.
 - THOROUGHLY MIXED IN THE FOLLOWING PROPORTIONS FOR TREE AND SHRUB PLANTING MIX:
 - 0.5 CY EXISTING SOIL
 - 0.2 CY SHARP SAND
 - 0.3 CY WOOD RESIDUALS (MUST BE BROKEN DOWN BY AT LEAST TWO YEARS DECOMPOSITION)
 - 4.5 LBS TREBLE SUPERPHOSPHATE (0-46-0)
 - 5.0 LBS DOLOMITE LIMESTONE (ELIMINATE FOR AVID LOVING PLANTS)
 - FOR PLANTING BEDS, SHRUB AND GROUND COVER INCORPORATE THE FOLLOWING INGREDIENTS PER 20 SF AND INCORPORATE INTO TOP 8 INCHES OF EXISTING SOILS BY ROTOTILLING OR SIMILAR METHOD OF INCORPORATION.
 - 0.1 CY SHARP SAND
 - 0.2 CY ORGANIC MATERIAL
 - 4.5 LBS TREBLE SUPERPHOSPHATE (0-46-0)
 - 5.0 LBS DOLMONITE LIMESTONE (ELIMINATE FOR ACID LOVING PLANTS)
 - IF SOIL TESTS RESULTS AND TESTING LAB RECOMMENDATIONS CONFLICT WITH THE SPECIFIED SOIL MIX THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REVIEW, ALTERATION APPROVAL.
 - THE LANDSCAPE CONSTRUCTION SHALL PROVIDE THE LANDSCAPE ARCHITECTURE OWNER A 1 CF SAMPLE OF SPECIFIED MIXES AND LAB REPORTS PRIOR TO USE.
- WARRANTY: ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWELVE MONTHS FROM THE DATE OF ACCEPTANCE IN WRITING BY THE OWNER OR BY ISSUANCE OF AN AIA STANDARD FORM "CERTIFICATE OF SUBSTANTIAL COMPLETION." THIS CERTIFICATE WILL BE ISSUED AFTER FINAL INSPECTION BY THE LANDSCAPE ARCHITECT. IF THE LANDSCAPE ARCHITECT IS SATISFIED THAT THE PROJECT IS SUBSTANTIALLY COMPLETE, THE CERTIFICATE WILL BE PREPARED WITH AN INSPECTION DATE AND CONDITIONS WHICH MUST BE SATISFIED IN A SPECIFIC PERIOD OF TIME (GENERALLY 90 DAYS). IF THESE CONDITIONS ARE NOT MET, THE CERTIFICATE MAY BE REVOKED AND A NEW INSPECTION WILL BE REQUIRED AND THE WARRANTY PERIOD SHALL BE EXTENDED ACCORDINGLY. OTHER INSPECTIONS MAY BE APPROPRIATE TO VERIFY COMPLIANCE WITH THE PUNCH LIST. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR A ONE-TIME REPLACEMENT ONLY. REPLACEMENTS SHALL BE OF THE SAME TYPE, SIZE AND QUALITY AS THE ORIGINAL SPECIES UNLESS OTHERWISE NEGOTIATED.



TYPE I TREE SPECIFICATIONS, MAJOR TREES				
SPECIES EXCEPTIONS OR MODIFICATIONS MUST BE APPROVED				
GALIPER	MINIMUM NUMBER OF BRANCHES OFF OF MAIN STEM	HEIGHT RANGE	WIDTH	CLEARANCE FROM GROUND TO FIRST BRANCH
1 IN.	8	8-10 FT.	3 TO 4 FT.	3 FT.
2 IN.	16	12-14 FT.	5 TO 6 FT.	4 FT.
2.5 IN.	18	12-14 FT.	6 TO 8 FT.	5 FT.
3 IN.	36	14 - 16 FT.	6 TO 8 FT.	5 FT.
4 IN.	45	16-18 FT.	8 TO 10 FT.	5 FT.
5 IN.	SUBJECT TO REVIEW AT PLACE OF GROWTH, OR PHOTOGRAPH			

- ALL PLANTS (BIB OR CONTAINER) SHALL BE PROPERLY IDENTIFIED BY WEATHER-PROOF LABELS, SECURELY ATTACHED THERETO BEFORE DELIVERY TO PROTECT SITE. LABELS SHALL IDENTIFY PLANTS BY NAME, SPECIES, AND SIZE. LABELS SHALL NOT BE REMOVED UNTIL THE FINAL INSPECTION BY THE LANDSCAPE ARCHITECT OR AGENT IN CHARGE. CONTAINERIZED GROUND COVER SHALL BE PROVIDED IN SPECIFIED SIZE CONTAINERS, FULL GROWTH TO AT LEAST CONTAINER SIZE WITH FULLY DEVELOPED, BUT NOT POT BOUND ROOT SYSTEMS AND FREE OF INSECT OR FUNGUS INFESTATIONS.
- ANY MATERIAL AND/OR WORK MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER IF IT DOES NOT MEET THE REQUIREMENTS OF THESE NOTES AND THE PROJECT SCOPE AND SEQUENCE. ALL REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
- ANY MATERIAL AND/OR WORK MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER IF IT DOES NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS. ALL REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- ALL SHRUB AND GROUND COVER BEDS SHALL BE PLANTED IN CONTINUOUS PREPARED PLANTING BEDS.
- ALL SHRUB BEDS AND PERENNIALS SHALL BE MULCHED WITH SHREDDED AND FULLY COMPOSTED HARDWOOD MULCH FREE OF COLOR DYE AS DETAILED AND SPECIFIED EXCEPT WHERE NOTED ON PLANS.
- INSTALLATION CONTRACTOR MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL 90 DAYS AFTER FINAL ACCEPTANCE BY THE ARCHITECT OR OWNER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, FERTILIZING, MULCHING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL. THE CONTRACTOR MUST BE ABLE TO PROVIDE CONTINUOUS MAINTENANCE, FOR AN ADDITIONAL COST, FOR A PERIOD OF ONE YEAR AFTER THE DATE OF THE "CERTIFICATE OF SUBSTANTIAL COMPLETION." THE CONTRACTOR WILL BE RESPONSIBLE FOR ITEMS LOST BY THEFT, ACTS OF GOD, VANDALISM OR ANY CONDITION AFFECTING THE LANDSCAPE PRODUCT NOT SPECIFICALLY RELATED TO THE OWNER OR OTHER SITE CONTRACTOR DAMAGE UP TO DATE OF THE ISSUANCE OF A "CERTIFICATE OF SUBSTANTIAL COMPLETION."
- UPON COMPLETION OF ALL LANDSCAPING FOR EACH PHASE OF WORK, AN INSPECTION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.
- THE CONTRACTOR IS RESPONSIBLE FOR TESTING PROJECT SOILS. THE CONTRACTOR IS TO PROVIDE A CERTIFIED SOILS REPORT TO THE OWNER. THE CONTRACTOR SHALL NOT KNOWINGLY INSTALL PLANTS IN SOIL OR DRAINAGE CONDITIONS THAT ARE NOT CONDUCIVE TO PLANT SURVIVAL. THE CONTRACTOR SHALL VERIFY THAT THE SOILS ON SITE ARE ACCEPTABLE FOR THE PROPER GROWTH OF THE PROPOSED PLANT MATERIAL. THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS FOR SOIL TEXTURE MODIFICATIONS, SOIL PH MODIFIERS OR ADDITION OF MACRO AND MICRO NUTRIENTS WHICH MAY REQUIRE MODIFICATION OF THE SPECIFIED PLANTING MIX, SPECIFIED HEREIN.
- QUICK SOIL TESTING AND PLANTING MIX DESIGN CAN BE PROVIDED BY A # 1 LABORATORIES (800-264-4522), 2790 WHITTEN ROAD, MEMPHIS, TN 38183. PROVIDE SOIL PLANTING MIX FROM SPECS AND ASK FOR COMMENTS FOR ALTERING MIX IF APPROPRIATE. MULTIPLE SAMPLES MIGHT BE REQUIRED FOR LARGE JOBS WITH VARYING SOIL CONDITIONS. PROVIDE ONE REPORT FOR EACH 10,000 SF OF LANDSCAPE, MINIMUM. SOIL SAMPLES SHALL BE TAKEN AT 1 INCH AND 6 INCH DEPTHS FROM AT LEAST 4 LOCATIONS. THESE SAMPLES SHOULD THEN BE MIXED AND SUBMITTED TO THE LAB AS A SINGLE SAMPLE.

PLOTTED: 08:30 AM on Thursday, June 02, 2011
 FILE: M:\2005\0504413\02\Drawings\PHFA Contract 2 - Planting Plans\Planting Plan_2_Foundry.dgn
 User: J. Germain

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD SHARPS, MARYLAND 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818		DES: AEL DRN: AEL CHK: DEL DATE: 5/26/11		LANDSCAPE NOTES- FOUNDRY STREET CAPITAL PROJECT No. S-6175 CONTRACT No. 20-4532		SCALE AS SHOWN
J. Germain DIRECTOR OF PUBLIC WORKS DATE: 6/2/11	J. Germain CHIEF, BUREAU OF ENGINEERING DATE: 6/2/11	J. Germain CHIEF, UTILITY DESIGN DIVISION DATE: 6/2/11	J. Germain CHIEF, UTILITY DESIGN DIVISION DATE: 6/2/11	J. Germain CHIEF, UTILITY DESIGN DIVISION DATE: 6/2/11	J. Germain CHIEF, UTILITY DESIGN DIVISION DATE: 6/2/11	J. Germain CHIEF, UTILITY DESIGN DIVISION DATE: 6/2/11	SHEET 21 OF 21	

DATE: 5/26/11 BY: NO. REVISION DATE: 600' SCALE MAP NO. 47 BLOCK NO. 18	ELECTION DISTRICT NO. 3 HOWARD COUNTY, MARYLAND
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