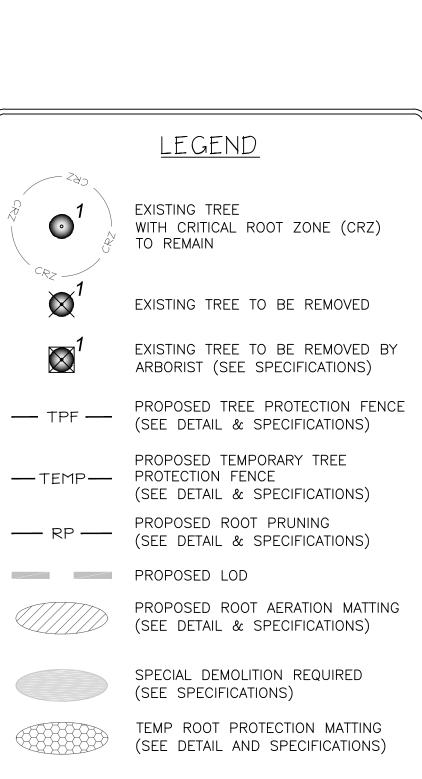
20 YEAR TREE COVER WORKS	SHEET
4 ODOGG CITE ADEA	24500 00 57
1 GROSS SITE AREA	21568 SQ. FT.
2 PERCENT OF TREE COVER REQUIRED	20 %
3 TREE COVER REQUIRED	4314 SQ. FT.
4 TREE CANOPY TO BE PRESERVED	4736 SQ. FT.
5 CREDIT FOR TREES TO BE PRESERVED (1.25xcanopy)	5920 SQ. FT.
6 ADDITIONAL CREDITS	SQ. FT.
7 TREE COVER TO BE PROVIDED BY PLANTING TREES	0 SQ. FT.
8 TOTAL TREE COVER PROVIDED	5920 SQ. FT.
	<u> </u>
9 EXCESS TREE COVER	1606 SQ. FT.

\*ONLY TREES #5, 6, 8, 9 & 11 ARE USED FOR CANOPY CREDIT



RESOURCE A Division of The Daney 7

DRAWN: C.J.H. REV. N

BASED ON PLANS PROVIDED BY WALTER L. PHILLIPS

DESIGN: C.A.C. CHECKED: D.A.Z.

HADLEY - ZADONSKY RESIDENCE 6871 NORTH WASHINGTON BLVD ARLINGTON, VA 22213

1" = 20'12/08/2011

TP1

#### 1. <u>GENERAL</u>

- 1.1. ALL MEASURES WILL BE REVIEWED AFTER INSTALLATION AND APPROVED BY OWNER AND ARLINGTON COUNTY.
- 1.2. SUBSTITUTIONS OR ALTERNATIVE METHODS OR MATERIALS SHALL BE REVIEWED AND APPROVED BY ARLINGTON COUNTY.
- 1.3. ALL TREE PROTECTION MEASURES MUST BE IN PLACE PRIOR TO COMMENCEMENT OF DEMOLITION, SITE CLEARING OR CONSTRUCTION AND MAINTAINED THROUGHOUT CONSTRUCTION. TREE PROTECTION MEASURES MAY ONLY BE REMOVED WITH ARLINGTON
- 1.4. REFER TO THE TREE PROTECTION ACTION KEY (TPAK) FOR SPECIFIC RECOMMENDATIONS FOR EACH TREE.

### 2. <u>REMOVAL BY ARBORIST</u>

- 2.1. TREES DESIGNATED AS "REMOVAL BY ARBORIST" SHALL BE REMOVED BY A QUALIFIED ARBORIST "BY HAND", TO MINIMIZE POTENTIAL FOR DAMAGE TO REMAINING TREES AND
- 2.2. CREWS SHALL BE DIRECTLY SUPERVISED BY A CERTIFIED ARBORIST.
- TRUCKS AND MECHANIZED EQUIPMENT SHALL NOT ENTER THE FENCED TREE PROTECTION
- 2.4. STUMPS SHALL BE LEFT IN PLACE OR GROUND OUT AT THE OWNERS DISCRETION. STUMPS IN TURF/LANDSCAPE AREAS OR WITHIN ROOT AERATION MATTING AREAS SHALL
- 2.5. STUMP GRINDING SHALL BE WITH SMALL MACHINES SPECIFICALLY DESIGNED FOR THAT PURPOSE. NO STUMPS SHALL BE EXCAVATED EXCEPT AS DESCRIBED HEREIN. STUMPS SHALL BE GROUND NOT MORE THAN 8" BELOW GRADE AND CARE MUST BE TAKEN TO MINIMIZE DAMAGE TO ROOTS OF RETAINED TREES.
- 3. TREE PROTECTION FENCE
- 3.1. TYPICALLY, INSTALL AFTER ROOT PRUNING AND PRIOR TO CLEARING & GRADING.
- 3.2. FENCE SHALL BE ONE OF THE FOLLOWING: (SEE DETAIL)
- 3.2.1. 4' HIGH, 14 GAUGE WELDED WIRE FENCE MOUNTED ON 6' STEEL "T" POSTS SPACED NOT MORE THAN 10' APART. FENCE SHALL BE ATTACHED TO POSTS USING GALVANIZED STEEL CLIPS OR ALUMINUM TIES. PLASTIC "ZIP" TIES SHALL NOT BE
- 3.2.2. 6' HIGH CHAIN LINK FENCE FABRIC MOUNTED ON 8', 1.5"\( \text{GALVANIZED STEEL PIPE} \) LINE POSTS. CORNER POSTS SHALL BE 2"Ø. FENCE SHALL BE ATTACHED TO POSTS USING ALUMINUM TIES. PLASTIC "ZIP" TIES SHALL NOT BE USED.
- SUPER SILT FENCE INSTALLED AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- 3.3. TREE PROTECTION AREA SIGNS SHALL BE AFFIXED TO ALL TREE PROTECTION FENCE AT 30' SPACING AVERAGE. SIGNS SHALL BE BILINGUAL (ENGLISH AND SPANISH). SIGNS SHALL NOT BE AFFIXED DIRECTLY TO TREES. SEE DETAIL.
- 3.4. SILT FENCE SHALL BE COORDINATED FOR INSTALLATION TO ENHANCE PROTECTION AND AVOID UNNECESSARY ROOT CUTS BY SILT FENCE INSTALLATION.
- 3.5. FENCE MAY BE REMOVED ONLY AFTER ALL CONSTRUCTION AND FINAL LANDSCAPING IS COMPLETE AND WITH ARLINGTON COUNTY APPROVAL.
- 4.1. THE EXACT LOCATION AND DEPTH WILL BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING. SPECIFIC EQUIPMENT & METHODS WILL BE DETERMINED BY ARLINGTON COUNTY
- BASED UPON DEPTH & TREE IMPACT. (SEE DETAIL) 4.2. HAND PRUNE ROOTS OVER 1" DIAMETER WITHIN CRZS OF SIGNIFICANT TREES. STEEP SLOPES, DEEP EXCAVATIONS AND PAVEMENT/CURB REMOVAL WILL BE REVIEWED WHEN
- 4.3. COORDINATE WITH SILT FENCE INSTALLATION TO MINIMIZE UNNECESSARY ROOT DAMAGE 4.4. ROOT PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST.

- 5.1. INSTALL MULCH BED RINGS FOR DESIGNATED SIGNIFICANT TREES OR PROVIDE CONTINUOUS MULCH STRIP 10' TO 15' WIDE ALONG LOD WITHIN PRESERVED CRZ AREAS.
- 5.2. MULCH SHALL BE INSTALLED TO A DEPTH OF 4".

OPEN FOR HAND ROOT PRUNING DURING CONSTRUCTION.

- 5.3. MULCH SHALL BE DOUBLE GROUND SHREDDED HARDWOOD, AGED FOR AT LEAST 6 MONTHS FROM AN APPROVED SOURCE. INSUFFICIENTLY OR IMPROPERLY AGED MULCH CONTAINING HIGH BACTERIAL COUNTS OR HIGH LEVELS OF BARK OR OTHER MATERIALS RESISTANT TO DECOMPOSITION SHALL NOT BE USED. MULCH SHALL NOT CONTACT TRUNK OF TREES.
- 5.4. EDGING IS NEITHER NECESSARY NOR DESIRABLE FOR THIS OPERATION.

# 6. <u>CONSTRUCTION MONITORING/INSPECTIONS</u>

6.1. A CERTIFIED ARBORIST SHALL MAKE REGULAR WEEKLY INSPECTIONS DURING ACTIVE CONSTRUCTION AND DEMOLITION AND PROVIDE REPORTS TO THE OWNER AND ARLINGTON COUNTY. REPORTS SHALL DOCUMENT CONDITION OF TREE PROTECTION DEVICES AND PROVIDE RECOMMENDATIONS FOR MAINTENANCE AND/OR ADDITIONAL CARE.

## 7. MISCELLANEOUS TREE PROTECTION REQUIREMENTS

- 7.1. NO TOXIC MATERIALS SHALL BE STORED WITHIN 100' OF TREE PROTECTION AREAS. 7.2. ALL WORK IN OR NEAR TREE PROTECTION AREAS SHALL BE PERFORMED IN A MANNER
- TO MINIMIZE DAMAGE TO TREES, SHRUBS, GROUND COVER, SOIL AND ROOT SYSTEMS. 7.3. MECHANIZED EQUIPMENT SHALL NOT BE PERMITTED TO ENTER ANY TREE PROTECTION

## 8. CANOPY PRUNING & SUPPORT CABLES

- 8.1. CANOPY PRUNING SHALL BE CLEANING PRUNING AND/OR RESTORATION PRUNING AND SHALL BE IN CONFORMANCE WITH CURRENT ANSI A300 STANDARDS AND ISA BEST MANAGEMENT PRACTICES.
- 8.2. PRUNING SHALL REMOVE ONLY DEAD, DYING, DAMAGED OR BROKEN BRANCHES GREATER THAN 1" IN DIAMETER. PRUNING OF SMALL TREES MAY INCLUDE REMOVAL OF LIMBS TO IMPROVE STRUCTURE.
- 8.3. FOLIAGE REMOVAL SHALL NOT BE MORE THAN 25% OF THE TOTAL LIVE CANOPY VOLUME OF ANY TREE IN ANY ONE SEASON. PRUNING SHALL NOT REMOVE INTERIOR BRANCHING EXCEPT AS OTHERWISE STATED.
- 8.4. PRUNING FOR SPECIFIC CLEARANCE (FOR CONSTRUCTION ACCESS OR PROPOSED IMPROVEMENTS) SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ARLINGTON
- COUNTY. 8.5. SUPPORT CABLES SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT ANSI A300 STANDARDS AND ISA BEST MANAGEMENT PRACTICES.

## CONSTRUCTION STRATEGIES FOR TREE PROTECTION

- 9.1. CONSTRUCTION STAGING, STOCKPILING EQUIPMENT STORAGE, ETC. SHALL BE LIMITED TO AREAS OF EXISTING PAVEMENT AND AREAS PROTECTED BY ROOT PROTECTION MATTING (RPM) EXCEPT AS OTHERWISE NOTED.
- 9.2. CONSTRUCTION EQUIPMENT ACCESS BETWEEN WORK AREAS SHALL REMAIN ON EXISTING PAVEMENT/IMPROVED SURFACES TO THE GREATEST EXTENT POSSIBLE. WHERE THIS IS NOT POSSIBLE AND WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE TO REMAIN, ACCESS SHALL BE MADE ON ROOT PROTECTION MATTING (RPM)(SEE DETAIL) OR APPROVED ALTERNATIVE. CONTRACTOR TO DETERMINE ACCESS NEEDS AND COORDINATE RPM INSTALLATION WITH THE CONTRACT ARBORIST AT THE PRE-CONSTRUCTION MEETING
- 9.3. PROPOSED LANDSCAPE WALL SHALL BE INSTALLED BY HAND AND SHALL NOT CAUSE EXCAVATION BELOW EXISTING GRADE.

## 10. ROOT PROTECTION MATTING

- 10.1. TEMPORARY MATTING TO PROTECT EXISTING ROOTS AND SOILS FROM PROPOSED SHORT TERM CONSTRUCTION TRAFFIC IMPACTS.
- 10.2. TO PREPARE SITE, REMOVE ANY DEBRIS BY HAND AND SPREAD AN EVEN LAYER OF WOOD CHIP MULCH. MINIMUM 4-6" THICK OVER THE ENTIRE AREA TO RECEIVE MATTING. 10.3. MATTING SHALL BE INSTALLED IN A SINGLE LAYER ON MULCH.

- 10.4. TOPSOIL SHALL NOT BE DISTURBED OR REMOVED. NO GRUBBING. GRADING. EXCAVATION OR EQUIPMENT TRAFFIC SHALL BE ALLOWED IN THE AREA TO RECEIVE RPM. EQUIPMENT MAY TRAVEL ON RPM AFTER IT IS INSTALLED, BUT SHOULD BE MINIMIZED. TRACKED EQUIPMENT SHOULD NOT TURN ON RPM TO AVOID DAMAGE.
- 10.5. MATTING MATERIAL SHALL BE TENAX TENDRAIN 770/2 OR APPROVED EQUIVALENT.
- 10.6. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
- 10.7. RPM SHALL NOT BE REMOVED BY SITE CONTRACTORS

## 11. ROOT AERATION MATTING

- 11.1. PERMANENT MATTING TO PROTECT EXISTING ROOTS AND SOILS FROM PROPOSED GRADE
- 11.2. INSTALL A SINGLE LAYER OF MATTING ON EXISTING, UNDISTURBED GRADE. REMOVE DEBRIS BY HAND.
- 11.3. TEMPORARY FENCING (ORANGE PLASTIC OR OTHER) MUST BE INSTALLED IN THE AREAS TO RECEIVE RAM IF FILL IS NOT TO BE PLACED IMMEDIATELY AT THE BEGINNING OF CONSTRUCTION OR THE AREA IS NOT INITIALLY PROTECTED BY TEMPORARY RPM.
- 11.4. TOPSOIL SHALL NOT BE DISTURBED OR REMOVED. NO GRUBBING, GRADING, EXCAVATION OR EQUIPMENT TRAFFIC SHALL BE ALLOWED IN THE AREA TO RECEIVE RAM. EQUIPMENT MAY TRAVEL ON RAM AFTER IT IS INSTALLED AND FILL MATERIAL PLACED, BUT SHOULD BE MINIMIZED.
- 11.5. MATTING MATERIAL SHALL BE TENAX TENDRAIN 770/2 OR APPROVED EQUIVALENT
- 11.6. RAM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
- 11.7. RAM IS PERMANENT AND SHALL NOT BE REMOVED BY SITE CONTRACTORS. FILL MATERIAL SHALL BE PLACED DIRECTLY ON RAM.
- 11.8. FILTER FABRIC (SILT FENCE FABRIC) SHALL BE INSTALLED IN 2 LAYERS AS SHOWN IN THE DETAIL (NOT TRENCHED) TO PROTECT THE RAM CORE FROM CONTAMINATION. INSTALLATION OF SILT FENCE FOR EROSION CONTROL SHALL BE COORDINATED WITH THE ARBORIST AND MUST BE PERFORMED BY THE ARBORIST TO PREVENT DAMAGE TO TREE ROOTS FROM TRENCHING OPERATIONS. EROSION CONTROL SOCKS MAY BE USED IN LIEU OF SILT FABRIC.

#### 12. SPECIAL "BY HAND" DEMOLITION PROCEDURES

- 12.1. DEMOLITION OF EXISTING IMPROVEMENTS WITHIN TREE PROTECTION AREAS (TPAS) SHALL BE PERFORMED BY THE CONTRACT ARBORIST OR DIRECTLY SUPERVISED BY A CERTIFIED
- 12.2. DEMOLITION SHALL BE "BY HAND", USING HAND OPERATED TOOLS OR SMALL EQUIPMENT STAGED OUTSIDE THE TPA.
- 12.3. DEPTH OF DEMOLITION SHALL ONLY BE THAT NECESSARY TO REMOVE DESIGNATED ITEMS. NO EXCAVATION SHALL OCCUR EXCEPT AS NOTED HEREIN. EXCAVATION SHALL NOT OCCUR BELOW THE EXISTING PAVEMENT OR BASE AGGREGATE. IF ROOTS ARE ENCOUNTERED DURING DEMOLITION, EXCAVATION SHALL STOP IMMEDIATELY.
- 12.4. MATERIALS SHALL BE REMOVED FROM TPAS IMMEDIATELY. NO STAGING OR STOCKPILING SHALL OCCUR IN TPAS.
- 12.5. MECHANIZED EQUIPMENT SHALL NOT ENTER THE TPAS.
- 12.6. BACKFILL OF VOIDS FROM DEMOLITION WITHIN THE TPAS SHALL BE LOOSELY PLACED TOPSOIL. ONLY THE AMOUNT OF SOIL NECESSARY TO FILL THE VOID WITHOUT SPREADING OVER EXISTING ADJACENT GRADES SHALL BE ALLOWED.
- 12.7. ROOTS ENCOUNTERED DURING DEMOLITION SHALL BE REVIEWED ON A CASE-BY-CASE BASIS BY THE CONTRACT ARBORIST. THE ARBORIST SHALL PROVIDE APPROPRIATE TREATMENT OR PRUNING METHODS AS NEEDED AND IN GENERAL CONFORMANCE WITH ACCEPTED INDUSTRY STANDARDS AND THIS SECT

### 13. <u>SSAT EXCAVATION WITHIN CRZS</u>

- 13.1. PROPOSED DRY UTILITIES, LIGHTING CONDUITS, HARDSCAPE, OR SPRINKLERS WITHIN TREE PROTECTION AREAS (TPAS) SHALL BE EXCAVATED BY SUPERSONIC AIRTOOL (SSAT) TO MINIMIZE DAMAGE TO ROOT SYSTEMS
- 13.2. OWNER, CONTRACTOR, CONTRACT ARBORIST, AND ARLINGTON COUNTY SHALL REVIEW THE PROPOSED LOCATION(S) DURING THE PRE-CONSRUCTION MEETING.
- 13.3. PRE-WATERING OF THE PROPOSED AREAS OF EXCAVATION DURING SUMMER AND FALL MONTHS IS RECOMMENDED TO MAINTAIN ROOT / SOIL MOISTURE.
- 13.4. THE CONTRACT ARBORIST SHALL PROVIDE A QUALIFIED ARBORIST CREW EXPERIENCED WITH THE SSAT AND UTILITY EXCAVATION TO PROTECT ADJACENT TREES, OPEN THE EXCAVATION, HAND PRUNE MINOR ROOTS, AND IDENTIFY AND PROTECT PRIORITY ROOTS TO REMAIN. COORDINATION WITH THE APPROPRIATE SUB-CONTRACTOR SHALL BE MADE TO DETERMINE APPROPRIATE WIDTH, DEPTH & SEQUENCING, UTILITY INSTALLATION, BACKFILL, COMPLETION, AND COVER.

## 14. SOIL CARE/ FERTILIZATION

- 14.1. INITIAL SOIL TESTING WITHIN TREE PROTECTION AREAS IS REQUIRED. CONDUCT INDIVIDUAL SOIL TESTS FOR SEPARATE TREE PROTECTION AREAS (SMALL ADJACENT AREAS MAY BE TESTED TOGETHER). SOIL TEST SHALL BE A REPRESENTATIVE SAMPLE FROM EACH AREA.
- 14.2. TREATMENTS TO THE TREE PROTECTION AREAS FOR SPECIFIED TREES (SEE TPAK) SHALL BE BASED ON THE RESULTS OF THE SOIL ANALYSIS. FERTILIZATION SHALL BE CONSISTENT WITH THE RECOMMENDATIONS OF THE ANSI A-300 (PART 2) TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (FERTILIZATION) 2004.
- 14.3. APPLICATION RATES SHALL NOT EXCEED A RATE OF 1 POUND OF ACTUAL NITROGEN PER 1,000 SQUARE FEET ANNUALLY. FERTILIZER USED SHOULD INCLUDE HUMIC ACIDS, SOLUBLE SEAWEED EXTRACTS AND SOIL BIOLOGICAL INOCULANTS.

## 15. TREE CONDITION MONITORING INSPECTIONS

- 15.1. CONTRACT ARBORIST SHALL PROVIDE MONITORING OF THE CONDITION OF RETAINED TREES IN TREE PROTECTION AREAS, AND TREATMENT OF DETRIMENTAL CONDITIONS (INSECTS, DISEASES, NUTRIENT DEFICIENCIES, SOIL MOISTURE, ETC.), AS THEY OCCUR, OR AS APPROPRIATE FOR EFFECTIVE MANAGEMENT.
- 15.2. INSPECTIONS SHALL BE PERFORMED AT LEAST MONTHLY DURING THE GROWING SEASON, BEGINNING PRIOR TO CONSTRUCTION AND CONTINUING THROUGHOUT CONSTRUCTION AND FOR AT LEAST ONE YEAR SUBSEQUENT TO COMPLETION OF CONSTRUCTION ACTIVITIES.
- 15.3. A WRITTEN SUMMARY REPORT INCLUDING SPECIFIC TREATMENTS MADE AND RECOMMENDATIONS FOR ADDITIONAL TREATMENTS SHALL BE PROVIDED TO THE OWNER AND PROJECT ARBORIST SUBSEQUENT TO EACH INSPECTION.

## 16. TREE GROWTH REGULATOR (TGR)

- 16.1. PACLOBUTRAZOL SOIL APPLIED TREE GROWTH REGULATOR (CAMBISTAT® OR EQUIVALENT) SHALL BE APPLIED TO INDICATED TREES. APPLICATIONS SHALL FOLLOW MANUFACTURER'S LABEL AND APPLICABLE LAWS.
- 16.2. TGR REDUCES CANOPY GROWTH WHICH CAN INCREASE FIBROUS ROOT SYSTEM GROWTH OVER 2-3 YEARS. THIS CAN INCREASE TOLERANCE TO DROUGHT STRESS AND IMPROVE ABSORPTION OF NUTRIENTS AND MOISTURE DURING THE STRESS RECOVERY PERIOD.

#### 17. TREE TRUNK PROTECTION WRAP 17.1. TRUNKS OF TREES IN CLOSE PROXIMITY TO CONSTRUCTION SHALL BE PROTECTED WITH A SINGLE WRAP OF GEOCOMPOSITE. GEOCOMPOSITE SHALL BE DOUBLE SIDED, GEONET

- CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR EQUIVALENT. 17.2. WRAP SHALL BE NOT LESS THAN 10' HIGH ON TRUNK OR UP TO THE LOWEST LIMB
- 17.3. WRAP SHALL BE TIED WITH ROPE OR WIRE. TIE MATERIAL SHALL NOT CONTACT TRUNK. 17.4. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.

(WHICHEVER IS LESS). EXPOSED ROOT FLARE SHALL ALSO BE FULLY COVERED.

# TREE PROTECTION ACTION KEY (TPAK)

	DBH	Common Name	Condition Rating %	Condition Rating	CRZ				Reco	omm	ende	ed Pr	eser	vati	tion Measures			S			
Tree #	(Diameter at 4.5 feet above grade)				Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Removal	Removal By Arborist	Root Prune	Tree Protection Fence	Mulch	Soil Care	Tree Growth Regulator	Tree Condition Inspections	Special Demolition	Temp Root Protection Matt	Root Aeration Matting	Construction Oversight/Monitoring	Canopy Prune	Comments	Additional Notes	Condition Notes
1	18	sugar maple	50	Fair	27			Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ	X		sooty mold	One Sided, Large DW (3"+), Small DW (1-2"), Stressed, Hardware,
2	22	linden		Good	33			X	Х	Х	Х	Х	Х	Χ	Х	Χ	Χ				Small DW (1-2"),
3	9,7,6	black cherry		Fair	23				Х	Χ				Χ			Χ				Small DW (1-2"), Vines,
4		black oak		Fair	32				Χ	Х	Х	Х	_				Χ	X			Full Crown, Small DW (1-2"), Vines, Fence,
5		black oak		Fair	32				Χ	Χ	Х		Х	Х			Χ			decline	Full Crown, Small DW (1-2"), Stressed, Vines, Fence,
6		catalpa		Fair	47				Χ	Χ				Х			Χ				Full Crown, Small DW (1-2"),
7		sugar maple		Fair	39	+	-	X	Х		Х	Х	Х	Х	Х						Stressed,
8		tulip poplar		Fair	45			X			Х	X				Х	X				Small DW (1-2"), Vines,
9		tulip poplar		Good	48	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X	X	Х	Х	Х	<u> </u>			Х	Х				Small DW (1-2"), Vines, Fence,
10		cedar		Good	6		X			V			_								Full Crown,
11 12		tulip poplar catalpa		Fair Good	60 14	_			X	^			Х								Full Crown, Large DW (3"+), Small DW (1-2"),
15		dogwood		Good	9				<u>^</u>												Small DW (1-2"), Vines,
16		linden		Fair	18				X												Small DW (1-2"), Whes, Small DW (1-2"), Weak Union, Fence,
17		ornamental cherry		Fair	5	_			X												Small DW (1-2"), Vices Grion, 1 chec,
18		linden		Fair		Х															
19		pin oak		Fair	30	+		X	Х	Х	х		х		Х		Х	X			Full Crown, Large DW (3"+), Small DW (1-2"), Fence,
20		leyland cypress		Good	5	+			Х	- 1							- ,	1		offsite	
21		arborvitae		Good	5				Х											offsite	
22	4	crepemyrtle	75	Good	6				Х												Fence,
23		dogwood	47	Poor	6				Х											fence conflict	Fence,
24	8	mulberry	56	Fair	12				Х												
		ornamental																			
25		crabapple		Good	9		X														Full Crown,
26		catalpa		Fair	44	+	X													<del>                                     </del>	One Sided, Suppressed,
27	32	sycamore	63	Fair	48		X													<del></del>	Narrow Crown, One Sided, Suppressed,
																			REMOVAL	adjacent driveway	Narrow Crown, One Sided, Large DW (3"+), Branch Decay, Weak
28		catalpa		Poor	41		ļ.,	X	X	Х	X	Х	<u> </u>	Х	Х	Х	Х	X	RECOMMENDED	and structure	Union,
29		catalpa	59	Fair	39		X														Narrow Crown, One Sided,
20		ornamental	75	Caad																	Full Casses
30	4	crabapple	75	Good	6				Х	Х										an adiacent	Full Crown, Full Crown, Large DW (3"+), Branch Decay, Broken Limbs,
31	38	red maple	56	Fair	57				x											on adjacent	Stressed,
- 31	- 30	red maple	30	i ali	31				_										REVIEW ON SITE	property	Oli esseu,
																			FOR POSSIBLE		
33	12	pin oak	75	Good	18	X													PROTECTION		Full Crown,
- 55	14	piii ouit	7.5	3000	10	<b> </b> ^		$\dagger$					$\dashv$						INOILOIION	close to current	i an oromi,
34	10	pin oak	56	Fair	15		X													structure	Narrow Crown, One Sided,
	.,,	p 55			1		T-													on adjacent	, , , , , , , , , , , , , , , , , , , ,
35	20	gingko	75	Good	30			x	Х						Х					property	Full Crown,
																				on adjacent	
36	4	mulberry	50	Fair	6		<u>L</u>		Х											property	Narrow Crown,
																				on adjacent	
37	5	mulberry		Fair	8				Х											property	Narrow Crown,
38		mulberry		Fair	9		Х														Narrow Crown,
39		mulberry		Fair	18	1	Х			1								1	i		Narrow Crown, One Sided,

## ADDITIONAL NOTES.

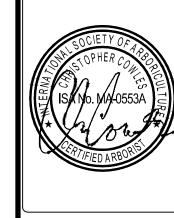
- 1. TREE LOCATIONS MAY BE APPROXIMATE. OWNER AND CONTRACT ARBORIST SHALL VERIFY ALL TREE LOCATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND/OR TREATMENT OR REMOVAL.
- 2. PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITY. ARLINGTON COUNTY, OWNER, DESIGN TEAM MEMBERS (PROJECT ARBORIST. LANDSCAPE ARCHITECT. ENGINEER AND ARCHITECT). CONTRACT ARBORIST, SITE AND LANDSCAPE CONTRACTORS SHALL ATTEND.
- 3. THE INSPECTION OF THESE TREES CONSISTED SOLELY OF A VISUAL INSPECTION FROM THE GROUND. WHILE MORE THOROUGH TECHNIQUES ARE AVAILABLE FOR INSPECTION AND EVALUATION, THEY WERE NEITHER REQUESTED NOR CONSIDERED NECESSARY OR APPROPRIATE AT THIS TIME.
- 4. TREES RATED "POOR" OR "DEAD" THAT ARE NOT RECOMMENDED FOR REMOVAL DUE TO CONSTRUCTION IMPACT MAY WARRANT FURTHER EVALUATION AND/OR TREATMENT OR REMOVAL.

## <u>Definitions</u>

- Certified Arborist: Credential of an individual arborist issued and administered by the International Society of Arboriculture. This credential must be current and valid to qualify to use the copyrighted designation of "Certified Arborist". Refer to www.isa-arbor.com for additional information.
- <u>Project Arborist:</u> Arboricultural firm contracted to provide site investigation and documentation (tree inventories, assessments, forest stand delineations, etc.) and develop tree preservation plans, methods, details and specifications in collaboration with the project design team.
- Contract Arborist: Arboricultural firm contracted to implement the approved tree preservation plans on site. All crews conducting arboricultural operations on site shall consist of at least one Certified Arborist who directly oversees all work by that crew. Arboricultural operations include, but are not limited to, pruning, tree protection device installation and maintenance (fence, matting, etc.), root pruning, air tool root excavation/exploration, soil care activities, soil testing, mulch application, tree inspections, pesticide/chemical applications and

DRAWN: C.J.H. | REV. NO DESIGN: C.A.C.

CHECKED: D.A.Z. BASED ON PLANS PROVIDED BY WALTER L. PHILLIPS





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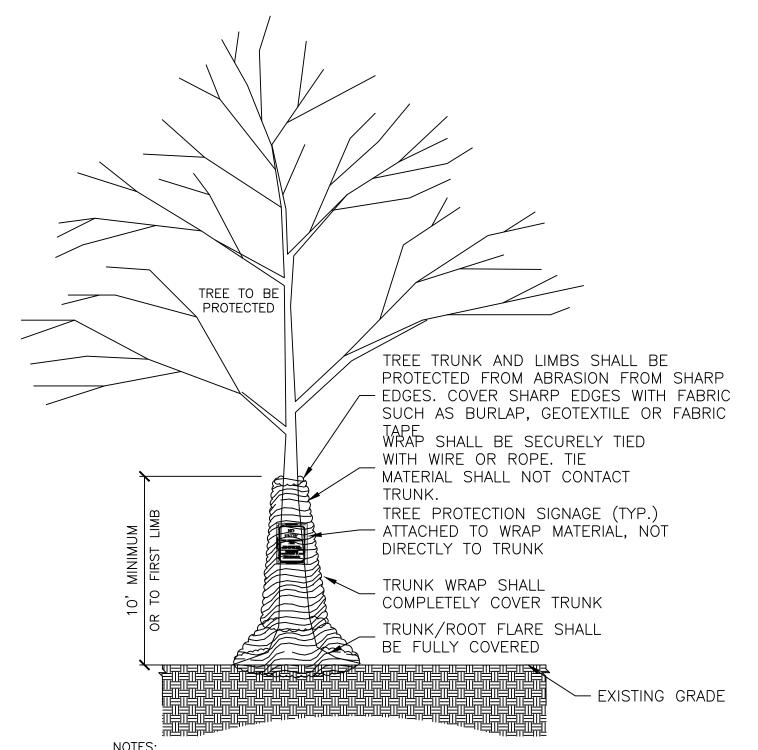
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1" = 20'12/08/2011

1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR

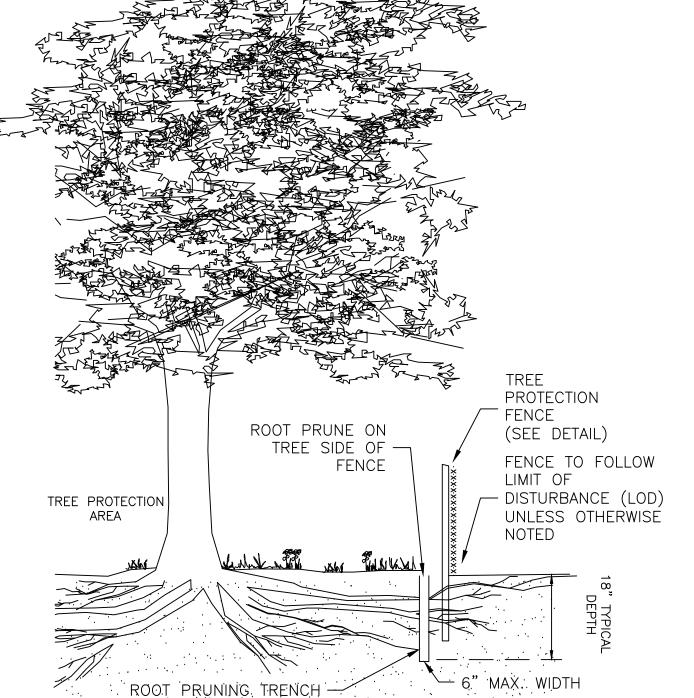
- 2. WHERE REQUIRED, SUPER SILT FENCE MAY BE USED IN LIEU OF WELDED WIRE FOR TREE PROTECTION PROVIDED IT IS INSTALLED AND MAINTAINED AS A TREE PROTECTION MEASURE AND IS POSTED WITH TREE PROTECTION SIGNS.
- 3. TREE PROTECTION FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE FENCE ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.

WELDED WIRE TREE PROTECTION FENCE (TYPICAL)



- 1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH
- NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR EQUIVALENT.
- 2. WRAP SHALL BE INSTALLED BY A CERTIFIED ARBORIST. 3. WRAP SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
- 4. WRAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE WRAP ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.
- 5. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.
- 6. MAJOR SCAFFOLD LIMBS MAY ALSO REQUIRE THIS PROTECTION AS DIRECTED BY THE PROJECT

<u>tree trunk & limb protection wrap (typ)</u>

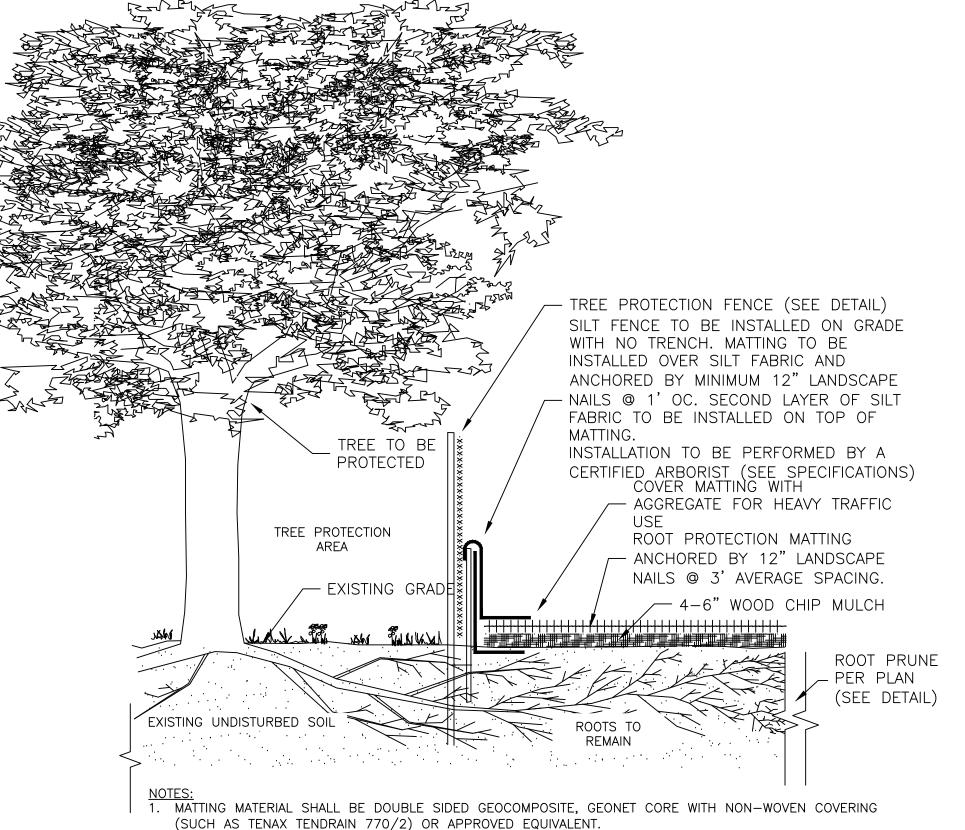


- 1. TREE PROTECTION AREA WILL BE DETERMINED AS PART OF THE PLAN REVIEW PROCESS. EXACT LOCATION, DEPTH AND METHODS OF ROOT PRUNING TO BE DETERMINED IN THE FIELD BY PROJECT
- 2. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING.
- 3. TRENCH SHOULD BE BACKFILLED IMMEDIATELY OR INCORPORATED WITH SILT FENCE INSTALLATION. 4. ROOTS SHOULD BE SEVERED BY TRENCHER, VIBRATORY PLOW OR APPROVED EQUIVALENT. ROOTS OVER 1.5" DIAMETER SHOULD BE CLEANLY CUT BY HAND. ROOT PRUNING ADJACENT TO SPECIMEN TREES MAY

REQUIRE SOIL REMOVAL BY SUPERSONIC AIR TOOL TO MINIMIZE TREE AND ROOT IMPACTS.

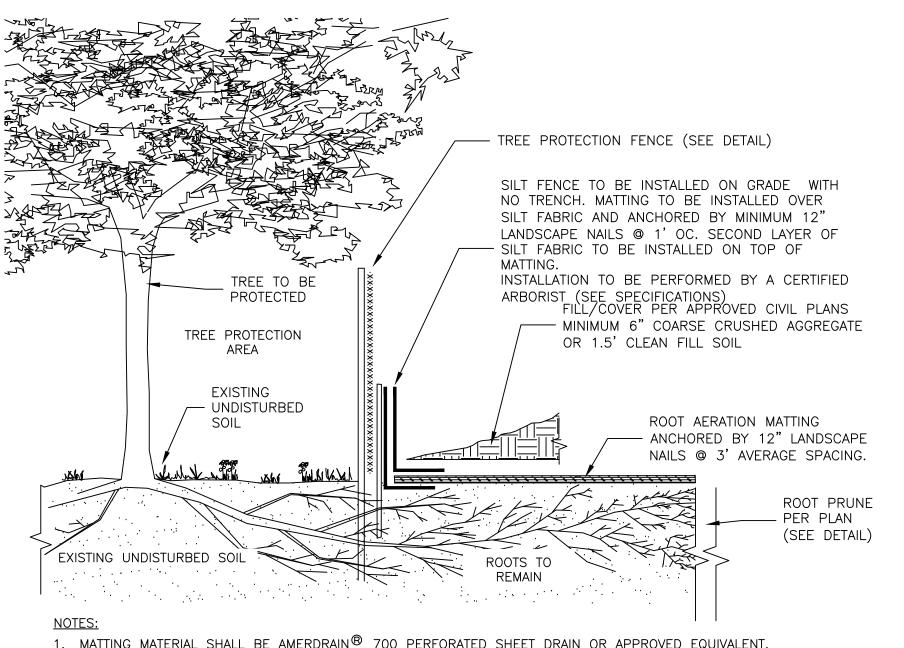
ROOT PRUNING (TYPICAL

SCALE: NTS



- 2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
- 3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
- 4. MATTING SHALL BE PLACED ON 4-6" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
- 5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE MAY BE NEEDED.

TEMPORARY ROOT PROTECTION MATTING (TYPICAL)



1. MATTING MATERIAL SHALL BE AMERDRAIN $^{oldsymbol{\otimes}}$  700 PERFORATED SHEET DRAIN OR APPROVED EQUIVALENT.

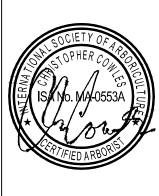
- MANUFACTURER: AMERICAN WICK DRAIN CORP, 1209 AIRPORT ROAD, MONROE, NC 28110 2. RAM SHALL BE ANCHORED BY 12" LANDSCAPE NAILS @ 3' AVERAGE SPACING
- 3. RAM SHALL BE INSTALLED BY A CERTIFIED ARBORIST EXPERIENCED WITH THESE SYSTEMS.
- 4. PROPOSED RAM IN STRUCTURAL SITUATIONS SHALL BE REVIEWED AND APPROVED BY THE PROJECT CIVIL ENGINEER. ADDITIONAL LAYERS OF MATERIALS, SUCH AS GEONET AND/OR GEOGRID, MAY BE REQUIRED.
- 5. ALL SITE PREPARATION/GRADING TO BE DONE USING SSAT TO MINIMIZE ROOT DAMAGE. 6. ALL ADJACENT WORK SHALL BE SUPERVISED BY CERTIFIED ARBORIST
- ROOT AERATION MATTING (TYP)

\*\* REFER TO CIVIL PLANS FOR DRIVEWAY SECTION AND DETAILS.

\*\* DRIVEWAY DEMOLITION AND INSTALLATION SHALL BE COORDINATED WITH AND SUPERVISED BY THE CONTRACT ARBORIST TO ENSURE ROOT DAMAGE IS MINIMIZED.



DRAWN: C.J.H. | REV. DESIGN: C.A.C. CHECKED: D.A.Z. BASED ON PLANS PROVIDED BY WALTER L. PHILLIPS





RESIDEN

1" = 20' 12/08/2011