Exhibit I

VIKA Capitol, LLC

4910 Massachusetts Ave. NW Suite 16 Washington, DC 20016 202,244,4140

vikacapitol.com

12.07.2022

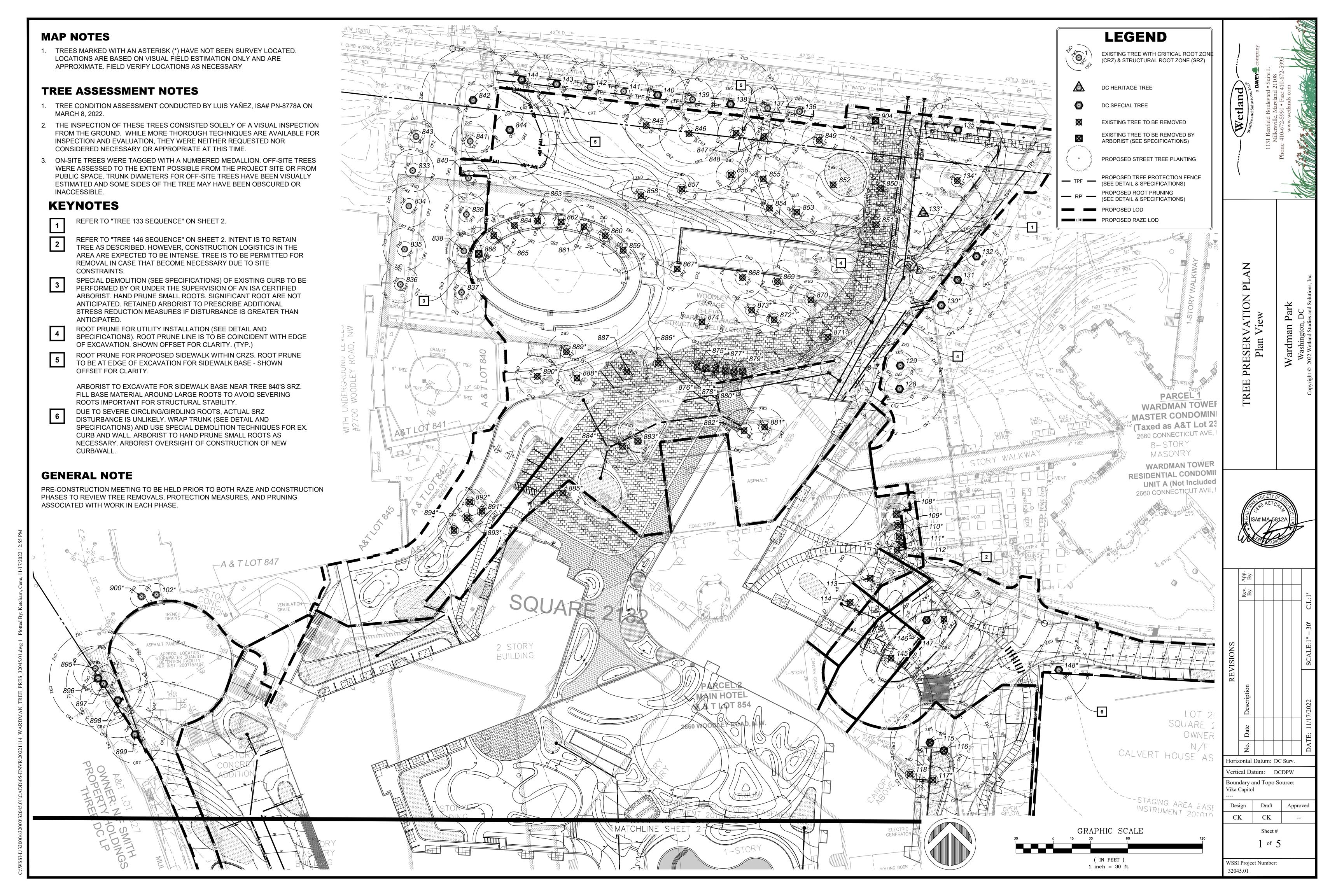
Existing Conditions Summary

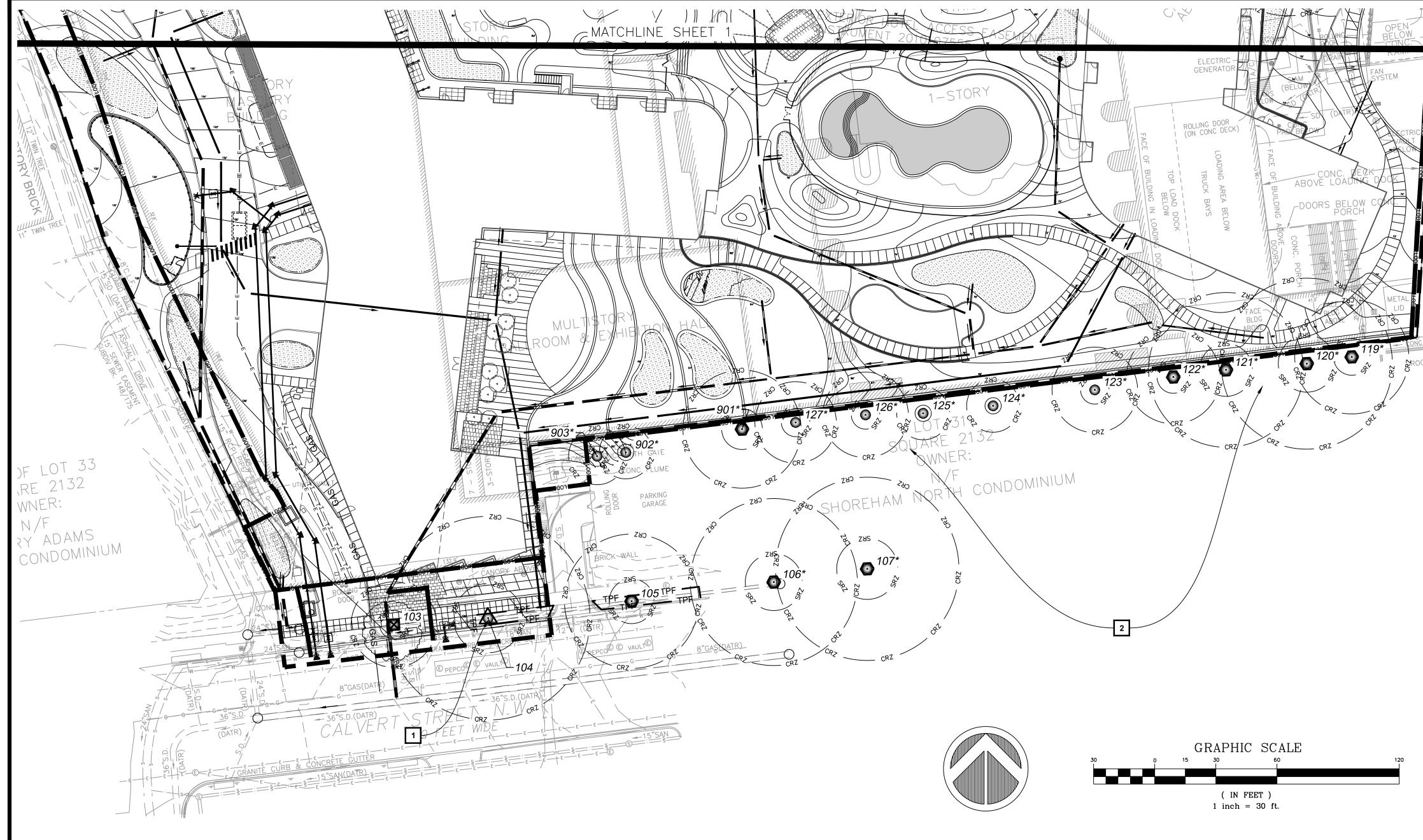
The existing site is comprised of Lots 855 & 856 in Square 2132. These lots are zoned mostly RA-2, with a small portion of the site to the south along Calvert Street, NW being RA-4. The site is currently accessed via existing curb cuts and has access from the North at Woodley Road, NW, from the East at 24th Street, NW, and from the south at Calvert Street, NW. There is significant topographic change across the site with the Calvert Street frontage at approximate elevation 127', the 24th Street frontage at elevation 157', the Woodley Road frontage at 175' and the highest areas on site reaching approximate elevation 196'. The site is currently improved with an existing 11-Story building with an underground parking garage, vegetated lawn areas, and several mature trees. The existing drainage is split between the storm infrastructure in Calvert Street and the combined sewer infrastructure in Woodley Road NW.

 $S:\ 0001-1000\ 0671C\ -Wardman\ Park\ Civil\ Eng\ engineering\ Submissions\ 2022-12-09\ LTR\ Submission\ Existing\ Conditions\ Description.docx$



Exhibit J





LEGEND

EXISTING TREE WITH CRITICAL ROOT ZON (CRZ) & STRUCTURAL ROOT ZONE (SRZ)

DC HERITAGE TREE

DC SPECIAL TREE

EXISTING TREE TO BE REMOVED BY ARBORIST (SEE SPECIFICATIONS)

EXISTING TREE TO BE REMOVED

PROPOSED STREET TREE PLANTING

PROPOSED TREE PROTECTION FENCE — TPF — (SEE DETAIL & SPECIFICATIONS) PROPOSED ROOT PRUNING - RP - (SEE DETAIL & SPECIFICATIONS) PROPOSED LOD

PROPOSED RAZE LOD

KEYNOTES

TREE 104'S CANOPY TO BE PRUNED FOR DEMOLITION CLEARANCE BY AN ISA CERTIFIED ARBORIST PER ANSI A300 - PART I STANDARDS. PROPOSED UTILITY CONNECTIONS WILL BE RELOCATED OUTSIDE OF THE STRUCTURAL ROOT ZONE. WHERE POSSIBLE, CONNECTIONS TO BE MADE IN A MANNER TO MINIMIZE ROOT DISTURBANCE (E.G., USING TRENCHLESS TECHNIQUES SUCH AS PNEUMATIC EXCAVATION OR HYDROEXCAVATION.) ALL UTILITY WORK WITHIN TREE 104'S CRZ TO BE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.

RETAIN EXISTING RETAINING WALL AND PAVING TO THE NORTH OF THE SIDEWALK THROUGH BUILDING DEMOLITION. FINAL DEMOLITION OF THESE STRUCTURES TO BE PERFORMED BY OR UNDER THE SUPERVISION OF A CERTIFIED ARBORIST USING SPECIAL DEMOLITION PROCEDURES (SEE SPECIFICATIONS). ARBORIST TO EVALUATE AND PROVIDE RECOMMENDATIONS FOR ANY ROOTS ENCOUNTERED. IF ROOTS ARE PRESENT, RE-USE

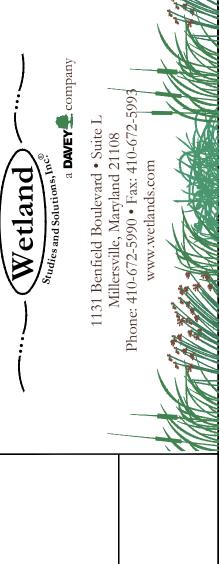
EXISTING BASE COURSE FOR NEW PATIO PAVING. TREES BETWEEN PROJECT SITE AND SHOREHAM NORTH ARE TO BE RETAINED. TREES TO BE PRUNED FOR CLEARANCE FROM THE PROJECT SITE. PRUNING MAY ONLY OCCUR OVER THE PROJECT SITE AND MUST CONFORM TO CURRENT ANSI A300 STANDARDS. IF CUTS MUST BE MADE OVER THE SHOREHAM PROPERTY TO CONFORM TO STANDARDS, PROPERTY OWNER'S PERMISSION IS REQUIRED. IF PERMISSION IS NOT GRANTED, NON-COMPLIANT HEADING CUTS MAY BE MADE FOR CLEARANCE.

TREE 133 SEQUENCE

- 1. APPLY TREE GROWTH REGULATOR
- ENCLOSE ENTIRE LANDSCAPED ISLAND WITH TEMPORARY TREE PROTECTION FENCE (TPF) (SEE DETAIL AND SPECIFICATIONS).
- 3. RETAIN EX. CURB AND DRIVEWAY THROUGH MOST OF CONSTRUCTION FOR EQUIPMENT ACCESS.
- 4. SPECIAL DEMOLITION (SEE SPECIFICATIONS) OF EX. DRIVEWAY AND CURB. IF ROOTS ARE FOUND IN BASE MATERIAL, RETAIN THIS MATERIAL. OTHERWISE, REMOVE BASE COURSE TO BARE SOIL.
- ROOT PRUNE FOR UTILITY INSTALLATION AND BIORETENTION.
- 6. JACK AND BORE OR OTHER TRENCHLESS INSTALLATION TECHNIQUE FOR DOMESTIC WATER LINE UNDER SRZ. FEED PIT AND RECEIVING PIT TO BE LOCATED OUTSIDE OF CRZ.
- 7. VERTICAL MULCHING (SEE SPECIFICATIONS) OF LANDSCAPED ISLAND AND FORMER ROADWAY WITHIN CRZ.
- REMOVE TPF PRIOR TO FINAL GRADING. INSTALL TRUNK WRAP. ARBORIST SUPERVISION IS REQUIRED AT ALL TIMES WHEN TPF IS DOWN. ALL ACCESS ON EX. LANDSCAPED ISLAND OR FORMER ROAD BED WITHIN CRZ TO BE ON APPROVED ROOT PROTECTION MATTING (RPM) (SEE DETAIL AND SPECIFICATIONS). GRADE FILL TO BE APPLIED BY HAND OR BY SMALL EQUIPMENT OPERATING ON RPM.

TREE 146 SEQUENCE

- 1. APPLY TREE GROWTH REGULATOR
- 2. ENCLOSE ENTIRE LANDSCAPED ISLAND WITH TEMPORARY TREE PROTECTION FENCE (TPF) (SEE DETAIL AND SPECIFICATIONS). TEMPORARY ACCESS (I.E., FOR SANITARY SEWER CONNECTION) TO BE UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST AT ALL TIMES. ALL FOOT TRAFFIC, SPOILS, AND/OR SMALL EQUIPMENT ACCESS TO BE ON APPROVED RPM.
- 3. IF POSSIBLE, INSTALL SANITARY CONNECTION USING AIRTOOL AND/OR VACUUM EXCAVATION. USE ONLY AIR OR LOW-PRESSURE HYDRO TO LOOSEN SOIL -- NO HIGH-PRESSURE HYDRO EXCAVATION. INSTALL PIPE UNDER EXISTING SIGNIFICANT ROOTS. ARBORIST TO HAND PRUNE SMALL ROOTS FOR ACCESS. (SEE DETAIL AND SPECIFICATIONS). IF INSTALLATION UNDER ROOTS IS NOT POSSIBLE DUE TO REQUIRED DEPTH OF EXCAVATION, ARBORIST TO ROOT PRUNE AT EDGE OF EXCAVATION.
- 4. RETAIN EX. CURB AND DRIVEWAY THROUGH MOST OF CONSTRUCTION FOR EQUIPMENT ACCESS
- 5. SPECIAL DEMOLITION (SEE SPECIFICATIONS) OF EX. DRIVEWAY AND CURB. IF ROOTS ARE FOUND IN BASE MATERIAL, RETAIN THIS MATERIAL. OTHERWISE, REMOVE BASE COURSE TO BARE SOIL. ARBORIST TO INVESTIGATE AREA ALONG STORM DRAIN CONNECTION FOR ROOTS AND ROOT PRUNE IF ROOTS ARE FOUND.
- 6. VERTICAL MULCHING (SEE SPECIFICATIONS) OF LANDSCAPED ISLAND AND FORMER DRIVEWAY WITHIN CRZ.
- REMOVE TPF PRIOR TO FINAL GRADING. INSTALL TRUNK WRAP. ARBORIST SUPERVISION IS REQUIRED AT ALL TIMES WHEN TPF IS DOWN. ALL ACCESS ON EX. LANDSCAPED ISLAND OR FORMER ROAD BED WITHIN CRZ TO BE ON APPROVED ROOT PROTECTION MATTING (RPM) (SEE DETAIL AND SPECIFICATIONS). GRADE FILL TO BE APPLIED BY HAND OR BY SMALL EQUIPMENT OPERATING ON RPM.
- 8. SIDEWALK BASE TO BE INSTALLED IN GRADE FILL MATERIAL OR ON GRADE (I.E., NO NEW EXCAVATION WITHIN TREE 146 CRZ. ALL ACCESS AND MATERIALS STORAGE FOR SIDEWALK INSTALLATION TO BE ON APPROVED RPM.



Wardma Washing



3y 3y 3y

	A J						
	Rev. By						.:1'
							C.I
REVISIONS							SCALE: $1'' = 20'$ C.1.: 1'
REV	Description						7/2022
	No. Date						DATE: 11/17/2022
	No.						DAT
Horiz	zontal l	Datı	ım:	DC	Surv	v	
Verti	cal Da	tum	:	DC	DPW	<i></i>	

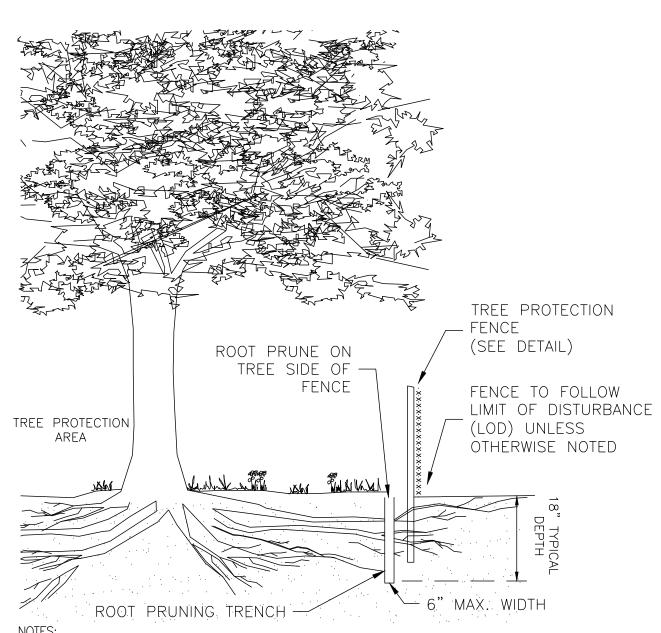
Boundary and Topo Source: Vika Capitol

Design	Draft	Approved
CK	CK	1
	Sheet #	
	2 of 5	

WSSI Project Number: 32045.01

- 1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
- 2. 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.



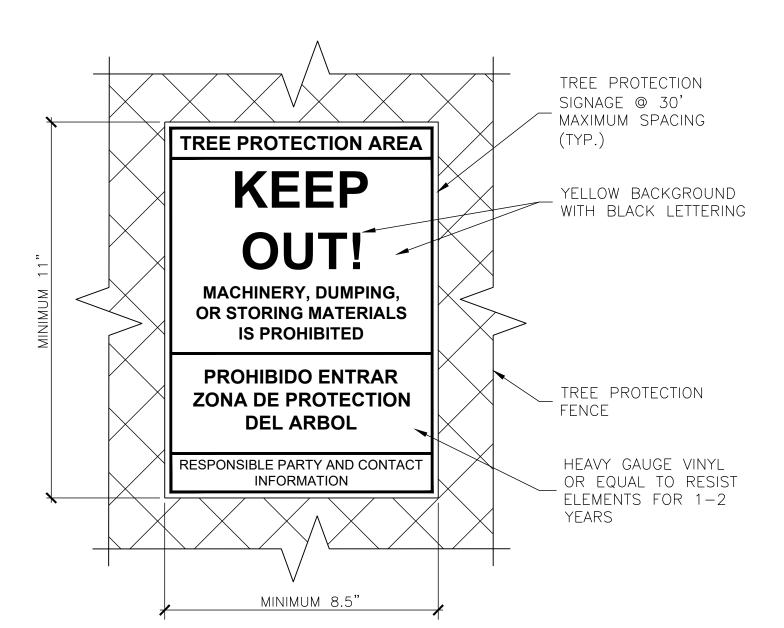


1. TREE PROTECTION AREA WILL BE DETERMINED AS PART OF THE PLAN REVIEW PROCESS. EXACT LOCATION, DEPTH AND METHODS OF ROOT PRUNING TO BE DETERMINED IN THE FIELD BY PROJECT

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 ROCK SAW, TRENCHER, VIBRATORY PLOW OR APPROVED EQUIVALENT. 5. 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

6. COORDINATE WITH SILT FENCE INSTALLATION (IF REQUIRED) TO MINIMIZE ROOT IMPACTS FROM ADDITIONAL TRENCHING.

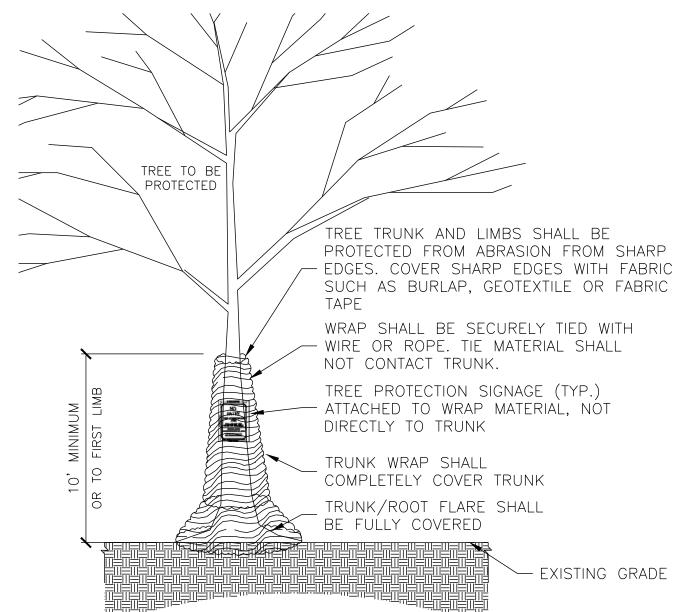




1. SIGNS TO BE ATTACHED TO TREE PROTECTION FENCE OR POSTS AT READABLE LEVEL.

- 2. 30' MINIMUM SPACING AVERAGE ADJUSTED FOR MAXIMUM READABILITY.
- 3. MINIMUM ONE SIGN FOR SMALL TREE PROTECTION AREAS.
- 4. SIGNS MAY BE REMOVED FROM RESIDENTIAL LOTS UPON ISSUANCE OF USE AND OCCUPANCY.
- 5. SIGNS TO REMAIN ON NON RESIDENTIAL SITES FOR MAINTENANCE PERIOD.

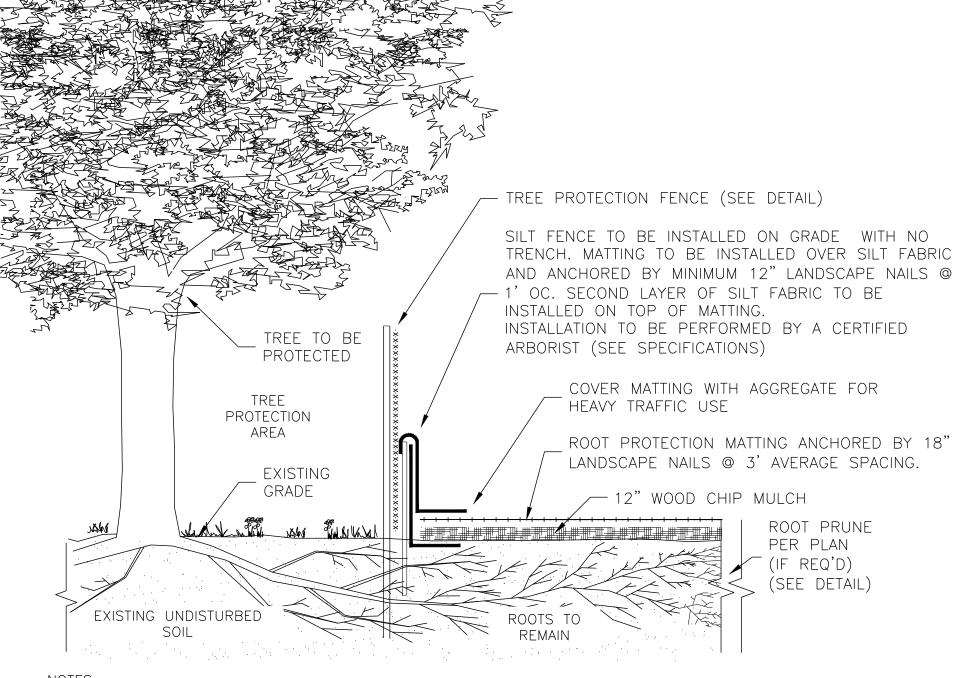




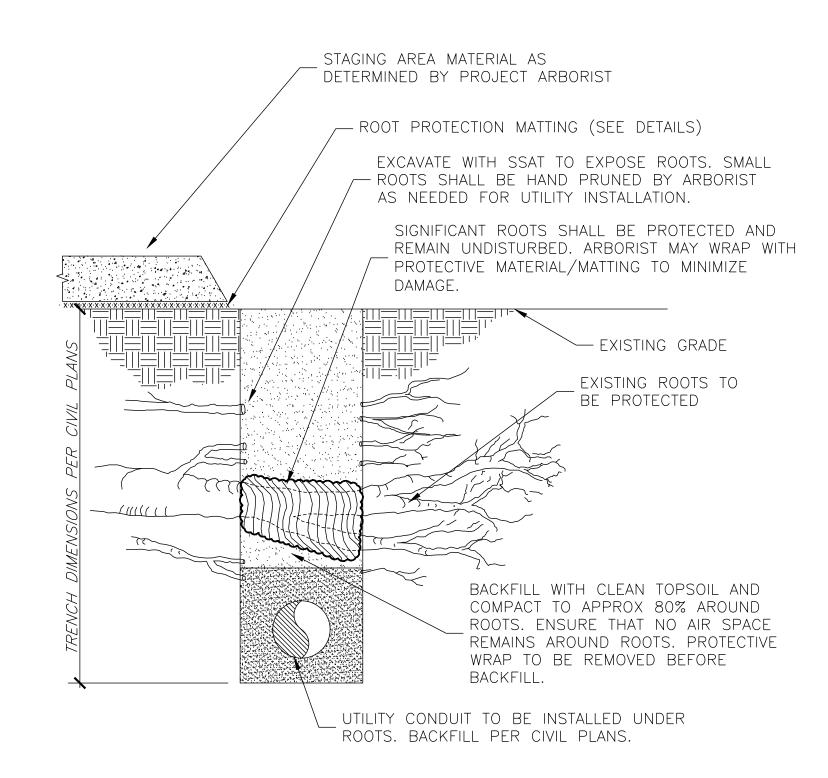
1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENSAR ROADRAIN RD7) OR EQUIVALENT.

- 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 ARBORIST.

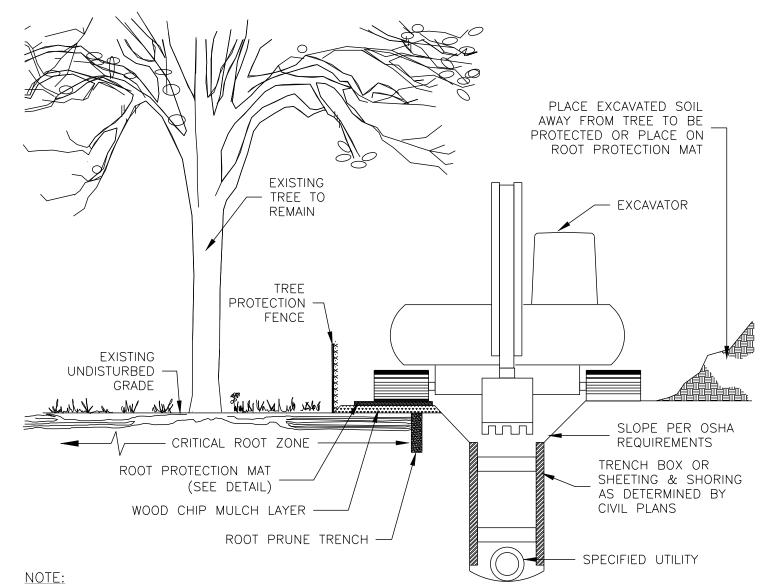




- 1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENSAR ROADRAIN RD7) OR APPROVED EQUIVALENT.
- 2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
- 3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS. 4. MATTING SHALL BE PLACED ON 12" 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, OR HARDENED SURFACE LAYER MAY BE NEEDED.
 - TEMPORARY ROOT PROTECTION MATTING (TYPICAL)



PROTECTION IN UTILITY TRENCH



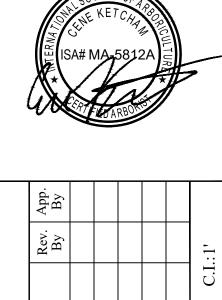
1. EXACT RPM DIMENSIONS TO BE DETERMINED BY PROJECT ARBORIST

- 2. ARBORIST TO COORDINATE WITH SITE SUPERINTENDENT FOR PIPE LAYOUT, DEPTH, SIZE OF EQUIPMENT, WIDTH OF TRENCH, AND OVERDIG TO DETERMINE LOCATION AND LAYOUT OF TREE
- 3. ARBORIST TO COORDINATE WITH SITE SUPERINTENDENT FOR OVERHEAD CLEARANCE ISSUES. MAY REQUIRE SELECT PRUNING OR TEMPORARY GUYING.
- 4. ARBORIST TO MONITOR BACK FILL AND RESTORATION ADJACENT TO PROTECTED TREES.



ERVA7 Details 'ardman Π

etland



			REV	REVISIONS			
	No.	No. Date	Description			Rev. Al	A _B
_							
	DAT	DATE: 11/17/2022	7/2022	SCALE:N/A	C.I.:1'	:1'	

Horizontal Datum: DC Surv.

Vertical Datum: DCDPW Boundary and Topo Source: Vika Capitol

Design Approved CK CK Sheet # 3 of 5

WSSI Project Number:

TREE PROTECTION ACTION KEY (TPAK)

Tree # (Diameter at 4.5 feet above	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	REGULATED STATUS Number of Stems	Structural Critical Root	.⊆	Removal	Removal By Arborist	Root Prune	Root Protection Matting	Trunk Wrap	Mulch Mulch		e Growth Regulator	ering	guir	Year 1 Soil Care	Root Aeration Matting Construction	Construction Notes To be removed and replaced for construction.	Condition Notes DDOT street tree; not tagged. Compacted Soils,
	elm, American	Ulmus americana	70%	Good	NO		1	7 2		X											Canopy pruning in dormant season only.	Surface Roots DDOT street tree; not tagged. Compacted Soils, DDOT street tree; not tagged. Compacted Soils,
	3 elm, American 2 elm, American	Ulmus americana Ulmus americana	60% 65%	Fair Good	NO		1		3)	Κ	X	X	,	(_		X	No disturbance	Surface Roots, Trunk Decay, Small deadwood (1-2") DDOT street tree; not tagged. Small deadwood (1-2")
	7 elm, American	Ulmus americana	70%	Good	NO		1	14 4	1				,								No disturbance	DDOT street tree; not tagged. One Sided, Surface Roots, Small deadwood (1-2"), Broken Limbs
	, ,	Zelkova spp.	60%	Fair	NO		1	15 4	.5							0					No disturbance	DDOT street tree; not tagged. Bacterial wetwood. One Sided, Root Damage/Decay, Co-Dominant Stems, Mechanical Damage
		Ulmus americana Ilex aquifolium	70% 70%	Good Good	NO NO		2		9 X 3 X													not tagged; inaccessible scale Co-Dominant Stems, Insect/Disease Problem
110 6,	holly, English	llex aquifolium	70%	Good	NO		2	4 1	1 X													scale One Sided, Co-Dominant Stems, Insect/Disease Problem
	abami lananaa	llex aquifolium	70%	Good	NO		1	4 1	1 X													scale One Sided, Suppressed, Co-Dominant Stems, Insect/Disease Problem cicada damage Buried Root Collar, Co-Dominant
112 7,7,	flowering	Prunus serrulata	70%	Good	NO		3		7 X													Stems, Insect/Disease Problem co-dom at2"; Co-Dominant Stems, Small deadwood (1-
		Betula spp.	70%	Good	NO	SPECIAL	2		8 X													2"), Broken Limbs co-dom at 1' Surface Roots, Co-Dominant Stems, Sma
		Betula spp.	70%	Good	NO	SPECIAL	2		2 X													deadwood (1-2"), Broken Limbs Buried Root Collar, Included Bark/Weak Union, Co-
115 2	1 beech, American	Fagus grandifolia	65%	Good	NO	SPECIAL	1	11 3	2 X													Dominant Stems Basal Decay, Included Bark/Weak Union, Co-Dominan
116 2	beech, American	Fagus grandifolia	60%	Fair	NO	SPECIAL	1	14 4	1 X													Stems, Small deadwood (1-2"), Broken Limbs
117 118		Cornus florida Cornus florida	65% 70%	Good Good	NO NO		1		1 X													Buried Root Collar Buried Root Collar, Small deadwood (1-2")
	1 planetree London	Platanus x hispanica	65%	Good	NO	SPECIAL	1	_	18			unumbilli			X					uuubullilli	Canopy prune only over project site property.	not tagged; measured 9/28/2022 Vines
120 28.	2 roval paulownia	Paulownia tomentosa	65%	Good	NO	SPECIAL	1	14 4	2						X						Canopy prune only over project site property.	not tagged; measured 9/28/2022
121 25.	z Iroval paulownia	Paulownia tomentosa	65%	Good	NO	SPECIAL	1	13 3	88						Х						Canopy prune only over project site property.	not tagged; measured 9/28/2022
122 15.	planetree, London	Platanus x hispanica	65%	Good	NO	SPECIAL	1	8 2	:3						Х						Canopy prune only over project site property.	not tagged; measured 9/28/2022 Vines
	planetree, London	Platanus x hispanica	65%	Good	NO		1	7 2	1						X						Canopy prune only over project site property.	not tagged; measured 9/28/2022
	and the second second second second second	Morus alba Acer negundo	65% 65%	Good Good	NO NO		1		3						X		+	+			Canopy prune only over project site property. Canopy prune only over project site property.	not tagged; measured 9/28/2022 not tagged; measured 9/28/2022
		Ulmus spp. Ailanthus altissima	65% 65%	Good Good	NO NO		1		10						X						Canopy prune only over project site property. Canopy prune only over project site property.	not tagged; measured 9/28/2022 not tagged; measured 9/28/2022
	300000000000000000000000000000000000000	Quercus falcata	70%	Good	NO		1		6		х		<u> </u>	x		1,	(X			x		off-site tree; visually est.; not tagged Large deadwood (3"+), Small deadwood (1-2"), User 2 (change data ent
120 2	, out, out, out	Quotous latouta	1070			0. 20%.2	1						`									text to use) off-site tree; visually est.; not tagged Large deadwood
129 2	oak, southern red	Quercus falcata	70%	Good	NO	SPECIAL	1	11 3	3		Х)	×	x			< X			X		(3"+), Small deadwood (1-2"), Branch Decay, User 2 (change data entry text to use)
130 1	ormaonolia saucer	Magnolia x soulangiana	70%	Good	NO	SPECIAL	1	8 2	.4		х	,	×	х			ζ X			X		off-site tree; visually est.; not tagged User 2 (change data entry text to use)
131 2	oak, southern red	Quercus falcata	60%	Fair	NO	SPECIAL	1	13 3	9		Х	,	K	X X	X		(Х		Large deadwood (3"+), Small deadwood (1-2"), Low Vigor, User 2 (change data entry text to use)
132 1	oak, southern red	Quercus falcata	55%	Fair	NO	SPECIAL	1	8 2	:4)	×	x x	X		<			х		Large deadwood (3"+), Small deadwood (1-2"), Low Vigor, Serious Decline, Branch Decay, User 2 (change
133 3	2 oak, willow	Quercus phellos	70%	Good	NO	HERITAGE	1	16 4	.8		Х	X)	x x	x >	X		(X			X		data entry text to use) Surface Roots, Root Damage/Decay, Co-Dominant
134	cherry, Japanese	Prunus serrulata	75%	Good	NO		1	5 1	4	X												Stems, Small deadwood (1-2") DBH at 4' Buried Root Collar
	поwering	Quercus palustris	60%	Fair	NO	SPECIAL	1	9 2	16					X	x					X	Arborist oversight for light pole installation, demolition and construction of sidewalk, and	DDOT street tree; not tagged. Root Damage/Decay, Small deadwood (1-2"), Low Vigor
												<u> </u>	,					\perp			grade fill. No disturbance	DDOT street tree; not tagged. Compacted Soils,
		Quercus phellos Quercus falcata	70% 70%	Good	NO NO		1	4 1	1		Х)	×					+		X	Root prune for grade cut.	Surface Roots, Root Damage/Decay DDOT street tree; not tagged. Compacted Soils,
	,	Quercus palustris	75%	Good	NO	SPECIAL	1	13 3	9		^ x	,	`							^ 	Root prune for grade cut.	Surface Roots, Girdling Roots, Root Damage/Decay DDOT street tree; not tagged. Compacted Soils,
		Quercus palustris	65%	Good	NO		1	6 1	7		^		<u> </u>					+		X	No disturbance	Surface Roots DDOT street tree; not tagged. Compacted Soils,
		Quercus palustris	70%	Good	NO	SPECIAL	1	8 2	3			,	`					-		X	No disturbance	Surface Roots, Root Damage/Decay DDOT street tree; not tagged. Compacted Soils,
		Quercus palustris	75%	Good	NO		1		20			,	ζ .				+	+		X	No disturbance	Surface Roots DDOT street tree; not tagged. Compacted Soils,
		Quercus phellos	75%	Good	NO		1	7 2	1)	<							X	No disturbance	Surface Roots DDOT street tree; not tagged. Compacted Soils,
143 1	oak, willow	Quercus phellos	70%	Good	NO	SPECIAL	1	8 2	4		Х	,	K					+		X	Root prune for grade cut and sidewalk	Surface Roots, Root Damage/Decay DDOT street tree; not tagged. Compacted Soils,
		Quercus phellos	70%	Good	NO	SPECIAL	1	8 2	:3		х)	x					+		Х	installation. Root prune for sidewalk installation.	Surface Roots, Root Damage/Decay DDOT street tree; not tagged. Compacted Soils, Surface Roots, Root Damage/Decay
145 1	beech, American	Fagus grandifolia	75%	Good	NO	SPECIAL	1	8 2	4 X												Intent is to retain tree. May be removed if	Surface Roots, Root Damage/Decay Surface Roots, Root Damage/Decay, Large deadwood
146 3	l oak, willow	Quercus phellos	70%	Good	NO	SPECIAL	1	16 4	7 (X)		х	x x	x x	x x	x	x 2	< x	X	х	X	logistics needs in the area make retention practically impossible.	(3"+), Small deadwood (1-2"), Broken Limbs
147 1	cherry, Japanese flowering	Prunus serrulata	65%	Good	NO	SPECIAL	1	8 2	3 X												p	Buried Root Collar, Trunk Decay, Small deadwood (1-2"), Broken Limbs, Branch Decay
148 2	4 linden, littleleaf	Tilia cordata	45%	Fair	NO	SPECIAL	1	12 3	66			unumbillib	X	X	<i></i> X		(unstillillilli		<i></i> X	Special demolition of existing curb and wall within CRZ. Arborist oversight of construction	Severe girdling roots.
	1 planetree London	Platanus x	75%	Good	NO		1	6 4	7								-	-			of new curb/wall. No disturbance	Surface Roots, Small deadwood (1-2")
	1 planetree London	hispanica Platanus x	75%	Good	NO		1	6 4	7									-			No disturbance	Surface Roots, Small deadwood (1-2")
	1 planetree London	hispanica Platanus x	70%	Good	NO		1	6 1	7									+			No disturbance	poor pruning Surface Roots, Small deadwood (1-2")
	nlanotroo London	hispanica Platanus x	70%	Good	NO		1	5 1	5									-			No disturbance	Girdling root 1"; poor pruning Surface Roots, Girdling
		hispanica Platanus x	75%				1	6	7					V				+		.,		
837 1		hispanica	/3%	Good	NO		1	1				,	`	X				-		X	Arborist to hand prune roots as necessary. Special demolition of existing curb within CRZ.	deadwood (1-2") Girdling root .5" One Sided, Surface Roots, Girdling
838	alnianetree London	Platanus x hispanica	65%	Good	NO		1	5 1	4				K	X			<			X	Arborist to hand prune roots as necessary.	Roots, Small deadwood (1-2"), Broken Limbs
839 1	i injanetree i ondon	Platanus x hispanica	70%	Good	NO		1	6 1	7					х				+			No disturbance	poor pruning Broken Limbs
840 1	1 planetree London	Platanus x hispanica	75%	Good	NO		1	6 1	7					х				+			Arborist to excavate for sidewalk base with airtool. Fill base around significant roots.	Surface Roots, Girdling Roots, Broken Limbs
841 1	Inlanetree London	Platanus x hispanica	65%	Good	NO		1	5 1	5					х							g	photolean due to adjacent tree One Sided, Suppressed Surface Roots, Girdling Roots
041	cherry Jananese	Prunus serrulata	40%	Poor	NO	SPECIAL	1	14 4	2		х	,	×	х						х	Minor disturbance from sidewalk install.	DBH at 3' Trunk Decay, Co-Dominant Stems, Serious Decline, Branch Decay, Fungal Fruiting Bodies
842 2	flowering									- 1											<u> </u>	
	flowering sweetgum, American	Liquidambar styraciflua Quercus	75%	Good	NO		1	5 1	5		Х)	Κ	х							No disturbance	poor pruning; resrtricted rooting Surface Roots, Buried Root Collar old tag 46 Compacted Soils, Basal Decay, Large

		%_	5			<u>v</u>	SRZ			<u>st</u>					vation						
Common Name	Botanical Name	Condition Rating	Condition Rating	Dead Tree (Y/N)	REGULATED STATUS	Number of Stems	Structural Critical Root Zone (radius) in Feet	Oritical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Removal	Removal By Arborist	Prote	Protection Fen		Mulch Special Demolition	Canopy Pruning	Tree Growth Regulator	Watering		ation	Construction Notes	Condition Notes
11 crabapple, flowering	Malus spp.	60%	Fair	NO		1	6		х												old tag 79 Compacted Soils, Root Damage/Decay, Basal Decay, Small deadwood (1-2"), Branch Decay
cherry, Japanese flowering	Prunus serrulata	60%	Fair	NO	SPECIAL	2	8	24	x												Root Damage/Decay, Trunk Decay, Co-Dominant Stems, Large deadwood (3"+), Small deadwood (1-2"), Branch Decay
10 cherry, Japanese flowering	Prunus serrulata	65%	Good	NO		1	5	15	х												Girdling Roots, Root Damage/Decay
11 cherry, Japanese flowering	Prunus serrulata	70%	Good	NO	-	1	6	17	х												Surface Roots, Girdling Roots, Root Damage/Decay
9 oak, northern red	Quercus rubra	50%	Fair	NO		1	5	14	x												lost major leader Buried Root Collar, Large deadwood (3"+), Serious Decline
flowering	Prunus serrulata	65%	Good	NO	_	1	5														Surface Roots, Buried Root Collar, Basal Decay DBH at 4' Surface Roots, Buried Root Collar, Girdling
flowering	Prunus serrulata	70%	Good	NO		1	6	17	X												Roots, Root Damage/Decay Surface Roots, Root Damage/Decay, Trunk Decay, Co-
19,14, cherry, Japanese 14 flowering	Prunus serrulata	60%	Fair	NO	SPECIAL	3	14	41	x												Dominant Stems, Large deadwood (3"+), Small deadwood (1-2"), Branch Decay, Fungal Fruiting Bodies
																					old tag 117; main trunk decaying from 0-15' Surface
g cherry, Japanese flowering	Prunus serrulata	40%	Poor	NO	_	1	5	14	x												Roots, Root Damage/Decay, Basal Decay, Trunk Decay, Co-Dominant Stems, Large deadwood (3"+), Small deadwood (1-2"), Branch Decay, Fungal Fruiting
cherry Japanese																					Bodies DBH at 4' Surface Roots, Buried Root Collar, Girdling
flowering	Prunus serrulata			+		1	7														Roots, Small deadwood (1-2") DBH at 4' Surface Roots, Buried Root Collar, Girdling
flowering						1	1														Roots, Small deadwood (1-2") girdling roots upto 1" Surface Roots, Girdling Roots,
cherry, Japanese	Prunus serrulata	40%	Poor	NO		1	4														Root Damage/Decay Excessive Lean, Buried Root Collar, Trunk Decay,
10 beech, American	Fagus grandifolia	70%	Good	NO		1	5	15	X												Small deadwood (1-2") Compacted Soils, Surface Roots, Girdling Roots
11 elm, hybrid spp. 10 elm, hybrid spp.	Ulmus x spp. Ulmus x spp.	70% 70%		NO NO		1 1	6 5														Compacted Soils Compacted Soils, Small deadwood (1-2")
11 elm, hybrid spp.	Ulmus x spp.	70%	Good	NO		1	6	17	X												Compacted Soils, Buried Root Collar, Small deadwood (1-2") Compacted Soils, Surface Roots, Buried Root Collar,
12 elm, hybrid spp.	Ulmus x spp.	70%	Good	NO		1	6	18	X												Large deadwood (3"+), Small deadwood (1-2") Compacted Soils, Surface Roots, Buried Root Collar,
11 elm, hybrid spp.	Ulmus x spp.	65%	Good	NO		1	6	17	x												Large deadwood (3"+), Small deadwood (1-2"), Stresse
12 elm, hybrid spp.	Ulmus x spp.	70%	Good	NO		1	6	18	х												heavy sapsucker damage Compacted Soils, Surface Roots, Buried Root Collar, Large deadwood (3"+), Sma
44 1-1-1-		200/		NO.			•														deadwood (1-2") Compacted Soils, Surface Roots, Buried Root Collar,
11 elm, hybrid spp.	Ulmus x spp.	60%	Fair	NO		1	6	17	X												Large deadwood (3"+), Small deadwood (1-2"), Stresse Compacted Soils, Surface Roots, Buried Root Collar,
14 elm, hybrid spp.	Ulmus x spp.	70%	Good	NO		1	7														Small deadwood (1-2"), Stressed Compacted Soils, Surface Roots, Girdling Roots, Root
flowering therry, Japanese						1	6														Damage/Decay DBH at 3' Compacted Soils, Buried Root Collar, Small
flowering cherry, Japanese	0.000					1	4														deadwood (1-2") DBH at 3' Surface Roots, Root Damage/Decay, Small
cherry, Japanese	Prunus serrulata	55%	Fair	NO		1	5														deadwood (1-2") DBH at 3.5' Surface Roots, Root Damage/Decay, Basa
cherry, Japanese	Prunus serrulata	60%	Fair	NO		1	6														Decay, Trunk Decay, Small deadwood (1-2") Surface Roots, Girdling Roots, Root Damage/Decay, Small deadwood (1-2")
10 pear, Callery	Pyrus calleryana	75%	Good	NO		1	5														Buried Root Collar Surface Roots, Girdling Roots
11 crapemyrtle,	Lagerstroemia	0%	Dead	YES		1	6														heavy sooty scale; DBH at base Insect/Disease Problem
g crapemyrtle,	Lagerstroemia	70%	Good	NO	_	1	5	14	x												DBH at base Co-Dominant Stems
6 cypress, Italian	Cupressus sempervirens	70%	Good	NO		1	3	9	х												DBH at base One Sided, Co-Dominant Stems
7 cypress, Italian	Cupressus sempervirens	70%	Good	NO		1	4	11	x												DBH at base One Sided, Co-Dominant Stems
6 cypress, Italian	sempervirens	65%	Good	NO		1	3	9	X												DBH at base One Sided, Co-Dominant Stems
6 cypress, Italian	sempervirens	70%	Good	NO		1	3	9													DBH at base One Sided, Co-Dominant Stems DBH at base One Sided, Co-Dominant Stems
	sempervirens Lagerstroemia					1	3														DBH at base; scale Co-Dominant Stems, Branch
common 11 crapemyrtle,	indica Lagerstroemia					1	6														Decay, Insect/Disease Problem DBH at base; scale; not tagged Co-Dominant Stems,
common crapemyrtle,	Lagerstroemia	60%	Fair	NO		1	3														Insect/Disease Problem DBH at base; scale; not tagged Co-Dominant Stems, Insect/Disease Problem
crapemyrtle,	Lagerstroemia	65%	Good	NO		1	6	18	X												DBH at base; scale Co-Dominant Stems, Small deadwood (1-2"), Insect/Disease Problem
9 magnolia, southern		65%	Good	NO		1	5	14	х												DBH at base Buried Root Collar, Co-Dominant Stems
crapemyrtle,	Lagerstroemia indica	70%	Good	NO	_	1	4	12	x												DBH at base Buried Root Collar, Co-Dominant Stems
11 planetree, London	Platanus x hispanica	70%	Good	NO		1	6	17	x												Compacted Soils, Broken Limbs
10 holly, English	llex aquifolium	70%	Good	NO		1	5														DBH at base; not tagged Buried Root Collar, Co- Dominant Stems DBH at base; not tagged Co-Dominant Stems
11 magnolia, southern			Good	NO		1	6														Surface Roots, Root Damage/Decay, Small deadwood (1-2")
6,4 holly, English	llex aquifolium	75%	Good	NO	_	2	4														Buried Root Collar, Co-Dominant Stems Buried Root Collar, Stressed
8 spruce spp.	Picea spp.	75%	Good	NO		1	4	12	X												Buried Root Collar
6,6 holly, English 12 mulberry spp.	Morus spp.	70% 50%	Good Fair	NO NO		1	6)	x							not tagged Co-Dominant Stems growing through chainlink Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Vines
26 elm, American	Ulmus americana	75%				1	13)	X							restricted rooting space Surface Roots, Vines restricted rooting space Suppressed, Surface Roots,
20 elm, American	Ulmus americana	65%	Good	NO	SPECIAL	1	10	30					,	X							Buried Root Collar, Co-Dominant Stems, Vines restricted rooting space; growing against chainlink;
20 elm, American	Ulmus americana	40%	Poor	NO	SPECIAL	1	10	30						x							trunk included over guardrail Suppressed, Excessive Lean, Buried Root Collar, Co-Dominant Stems, Large
																					deadwood (3"+), Small deadwood (1-2"), Broken Limbs Vines
15 tree of heaven	Ailanthus altissima	60%	Fair	NO	SPECIAL	1	8	23					,	х							bacterial wetwood Suppressed, Buried Root Collar, Trunk Decay, Broken Limbs
6 cryptomeria, Japanese	Cryptomeria japonica	75%	Good	NO		1	3	9				Х)	х			х		Х		not tagged
Japanese	IDeutern '	,	ı			1			1			- 1	1 1	1	X		1 [- 1		Canopy prune only over project site property.	not tagged; measured 9/28/2022
19.5 royal paulownia	Paulownia tomentosa		Fair	NO	SPECIAL	1	10										- -			Canony prupe only over project site present	
			Fair Fair Fair	NO NO	SPECIAL	1	4	13							X					Canopy prune only over project site property. Canopy prune only over project site property.	not tagged; measured 9/28/2022 not tagged; measured 9/28/2022
	11 crabapple, flowering 14,8 cherry, Japanese flowering 10 cherry, Japanese flowering 11 cherry, Japanese flowering 12 cherry, Japanese flowering 13 cherry, Japanese flowering 13 cherry, Japanese flowering 14 cherry, Japanese flowering 15 cherry, Japanese flowering 16 cherry, Japanese flowering 17 cherry, Japanese flowering 18 maple, red 19 cherry, Japanese flowering 11 elm, hybrid spp. 11 elm, hybrid spp. 12 elm, hybrid spp. 13 cherry, Japanese flowering 14 elm, hybrid spp. 15 elm, hybrid spp. 16 cherry, Japanese flowering 17 cherry, Japanese flowering 18 cherry, Japanese flowering 19 cherry, Japanese flowering 10 cherry, Japanese flowering 11 cherry, Japanese flowering 12 cherry, Japanese flowering 13 cherry, Japanese flowering 14 cherry, Japanese flowering 15 cherry, Japanese flowering 16 cyery, Japanese flowering 17 cherry, Japanese flowering 18 cherry, Japanese flowering 19 cherry, Japanese flowering 11 cherry, Japanese flowering 12 crapemyrtle, common 13 crapemyrtle, common 14 crapemyrtle, common 15 common 16 cypress, Italian 16 cypress, Italian 17 cypress, Italian 18 crapemyrtle, common 19 crapemyrtle, common 10 pale, red 11 crapemyrtle, common 11 crapemyrtle, common 12 crapemyrtle, common 13 cherry, Japanese flowering 14 cherry, Japanese flowering 15 cherry, Japanese flowering 16 cherry, Japanese flowering 17 cherry, Japanese flowering 18 cherry, Japanese flowering 19 cherry, Japanese flowering 10 pear, Callery 10 maple, red 11 cherry, Japanese flowering 11 cherry, Japanese flowering 12 cherry, Japanese flowering 13 cherry, Japanese flowering 14 cherry, Japanese flowering 15 cherry, Japanese flowering 16 cherry, Japanese flowering 17 cherry, Japanese flowering 18 cherry, Japanese flowering 19 cherry, Japanese flowering 10 cherry, Japanese flowering 10 cherry, Japanese flowering 11 cherry, Japanese flowering 11 cherry, Japanese flowering 11 cherry, Japanese flowering 11 cherry flowering	11 crabapple, flowering Malus spp. 144,8 cherry, Japanese Prunus serrulata flowering Mehry, Japanese Prunus serrulata flowering Ulimus x spp. 11 elm, hybrid spp. Ulimus x spp. 12 elm, hybrid spp. Ulimus x spp. 13 elm, hybrid spp. Ulimus x spp. 14 elm, hybrid spp. Ulimus x spp. 15 elm, hybrid spp. Ulimus x spp. 16 elm, hybrid spp. Ulimus x spp. 17 cherry, Japanese flowering Prunus serrulata flower	te be cherry, Japanese chowering Prunus serrulata 65% cherry, Japanese chowering Prunus serrulata 40% 70% cherry, Japanese chowering Prunus serrulata 70% 11 elm, hybrid spp. Ulmus x spp. 70% 12 elm, hybrid spp. Ulmus x spp. 70% 13 cherry, Japanese chowering Prunus serrulata 70% 14 cherry, Japanese chowering Prunus serrulata 70% 15 cherry, Japanese chowering Prunus serrulata 70% 15 cherry, Japanese chowering Prunus serrulata 70% 16 cherry, Japanese chowering Prunus serrulata 70% 16 cherry, Japanese chowering Prunus serrulata 70% 17 cherry, Japanese 20 cherry, Ja	14.9 Cherry, Japanese Prunus serrulata 60% Fair	Technology Tec	11 crabappole, flowering Malus spp. 60% Fair NO	# 6	1	1	1			1		The Selection Research Selection Sel	1	To collections, Traversion Moltima spike To collections, Traversion Moltima spike To collections, Traversion Moltima spike Molti	March Contention Contenti		Transport Value space Ope Fare Ope Service Service Service Ope O	Company Comp



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	Rev. By						C.I.:1'	
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REVISIONS							SCALE:N/A	
RE	Description						7/2022	
	No. Date						DATE: 11/17/2022	
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Horiz	zontal l	Datu	ım:	DC	Surv	v.		

Horizontal Datum: DC Surv.

Vertical Datum: DCDPW

Vertical Datum: DCDPW

Boundary and Topo Source:
Vika Capitol

Design Draft Approved
CK CK -Sheet #

WSSI Project Number: 32045.01

Trees associated with raze activities. Review with DDOT arborist prior to raze.

FOR EACH TREE. PRIOR TO BOTH THE RAZE AND CONSTRUCTION PHASES. A PRE-CONSTRUCTION SITE WALK SHALL BE HELD TO INCLUDE THE RETAINED ARBORIST AND PROJECT FORESTER

WITH THE CONTRACTOR, ARCHITECT, DDOT, AND OWNER. WORK WITHIN OR ADJACENT TO

- TREE PROTECTION AREAS (TPA) IS TO BE REVIEWED. SUBSTITUTIONS OR ALTERNATIVE METHODS OR MATERIALS SHALL BE REVIEWED AND APPROVED BY *DDOT*.
- 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 DDOT **APPROVAL**
- ALL MEASURES WILL BE REVIEWED AFTER INSTALLATION AND APPROVED BY OWNER AND

REMOVAL BY ARBORIST

- 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 AREAS, EXCEPT WHERE EXPLICITLY APPROVED BY THE PROJECT FORESTER AND UTILIZING APPROVED ROOT PROTECTION DEVICE.
- 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 BE GROUND.
- STUMP GRINDING SHALL BE DONE 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

- INSTALL AND MAINTAIN TEMPORARY TREE PROTECTION FENCE FOR EACH TREE PROTECTION AREA AS SHOWN ON THE PLAN. INSTALLATION IS TYPICALLY AFTER ROOT PRUNING AND PRIOR TO CLEARING & GRADING.
- 3.2. FENCE SHALL BE ONE OF THE FOLLOWING: (SEE DETAIL)
- 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 USED.
- 6' HIGH CHAIN LINK FENCE FABRIC MOUNTED ON 8', 1.5"Ø 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" (SILT FENCE WITH AN INCORPORATED CHAIN LINK FENCE FABRIC) INSTALLED AS SPECIFIED BY APPROPRIATE STATE OR LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- SILT FENCE SHALL BE COORDINATED FOR INSTALLATION TO ENHANCE PROTECTION AND AVOID UNNECESSARY ROOT CUTS BY SILT FENCE INSTALLATION.
- FENCE SHALL REMAIN FOR THE DURATION OF CONSTRUCTION. FENCE MAY BE REMOVED ONLY AFTER ALL CONSTRUCTION AND FINAL LANDSCAPING IS COMPLETE AND WITH DDOT

4. TREE PROTECTION AREA SIGNS

- TREE PROTECTION AREA SIGNS SHALL BE AFFIXED TO ALL TREE PROTECTION FENCE AT 30' SPACING AVERAGE.
- 4.2. SIGNS SHALL BE BILINGUAL (ENGLISH AND SPANISH).
- SIGNS SHALL NOT BE AFFIXED DIRECTLY TO TREES. SEE DETAIL
- 4.4. SIGN MATERIAL SHALL BE WATERPROOF, HEAVY VINYL OR SIMILAR.
- 4.5. SIGNS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

- 5.1. THE EXACT LOCATION AND DEPTH WILL BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING. SPECIFIC EQUIPMENT & METHODS WILL BE DETERMINED BY PROJECT FORESTER AND *DDOT* BASED UPON DEPTH & TREE IMPACT. (SEE DETAIL)
- HAND PRUNE ROOTS OVER 1" DIAMETER WITHIN CRZS OF SIGNIFICANT TREES. STEEP SLOPES, DEEP EXCAVATIONS AND PAVEMENT/CURB REMOVAL WILL BE REVIEWED WHEN OPEN FOR HAND ROOT PRUNING DURING CONSTRUCTION.
- COORDINATE WITH SILT FENCE INSTALLATION TO MINIMIZE UNNECESSARY ROOT DAMAGE.
- 5.4. ROOT PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST.

- INSTALL MULCH FOR DESIGNATED SIGNIFICANT TREES. MULCH AREA SHALL BE ONE OF THE FOLLOWING, AT THE DISCRETION OF THE RETAINED ARBORIST AND OWNER:
- INSTALL MULCH BED RINGS. MULCH SHOULD COVER AT LEAST THE ENTIRE
- STRUCTURAL ROOT ZONE. LARGER MULCH BEDS ARE PREFERRED. PROVIDE CONTINUOUS MULCH STRIP 10' TO 15' WIDE ALONG LOD WITHIN PRESERVED
- MULCH SHALL BE INSTALLED TO A DEPTH OF 4". TOTAL MULCH DEPTH SHALL NOT EXCEED 4" SHOULD EXISTING MULCH BE PRESENT.
- 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, WALNUT, INVASIVE SPECIES, OR OTHER MATERIALS RESISTANT TO DECOMPOSITION SHALL NOT BE USED.
- MULCH SHALL NOT CONTACT TRUNK OF TREES.
- 6.5. EDGING SHALL NOT BE USED.

CONSTRUCTION MONITORING/INSPECTIONS

- 7.1. A CERTIFIED ARBORIST SHALL ACTIVELY MONITOR THE SITE TO ENSURE ADHERENCE TO ALL TREE PROTECTION REQUIREMENTS.
- THIS WORK IS TYPICALLY PREFORMED BY THE RETAINED ARBORIST, TO BE HIRED BY THE GENERAL CONTRACTOR OR OWNER.
- PHASE 1 (DURING INITIAL CLEARING AND INSTALLATION OF TREE PROTECTION AND PERIMETER E&S CONTROLS) INSPECTIONS SHALL BE AT LEAST WEEKLY.
- PHASE 2 (DURING ALL REMAINING SITE WORK AND UNTIL PROJECT COMPLETION) INSPECTIONS SHALL BE AT LEAST MONTHLY. TRANSITION FROM WEEKLY TO MONTHLY SCHEDULE SHALL REQUIRE OWNER AND
- REPORTS SHALL BE PROVIDED TO THE OWNER AND DDOT. REPORTS SHALL DOCUMENT CONDITION OF TREE PROTECTION DEVICES AND PROVIDE RECOMMENDATIONS FOR
- ADDITIONAL ARBORIST INSPECTIONS AND/OR DIRECT ARBORIST OVERSIGHT OF CRITICAL TREE PRESERVATION ACTIVITIES, TREE PRUNING, TREE REMOVAL, OR OTHER SENSITIVE ACTIVITIES MAY BE REQUIRED. WEEKLY INSPECTIONS DO NOT SATISFY THE NEED FOR DIRECT ARBORIST OVERSIGHT THAT MAY BE REQUIRED FOR SPECIFIC ACTIVITIES.

MISCELLANEOUS TREE PROTECTION REQUIREMENTS

MAINTENANCE AND/OR ADDITIONAL CARE

- 8.1. NO TOXIC MATERIALS SHALL BE STORED WITHIN 100' OF TREE PROTECTION AREAS. 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. MECHANIZED EQUIPMENT SHALL NOT BE PERMITTED TO ENTER ANY TREE PROTECTION AREAS WITHOUT EXPLICIT APPROVAL BY THE PROJECT FORESTER AND DDOT, AND WITH ADEQUATE APPROVED ROOT PROTECTION DEVICES.

CANOPY PRUNING & SUPPORT CABLES

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.
- 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
- 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.
- PRUNING FOR SPECIFIC CLEARANCE (FOR CONSTRUCTION ACCESS OR PROPOSED IMPROVEMENTS) SHALL BE REVIEWED AND APPROVED BY THE OWNER AND DDOT.
- SUPPORT CABLES SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT ANSI A300 STANDARDS AND ISA BEST MANAGEMENT PRACTICES.

10. CONSTRUCTION STRATEGIES FOR TREE PROTECTION

- 10.1. CONSTRUCTION STAGING, STOCKPILING, EQUIPMENT STORAGE, MASONRY SET-UP AND WASHOUT, ETC. SHALL BE LIMITED TO AREAS OF EXISTING PAVEMENT AND AREAS WITHIN THE LOD EXCEPT AS OTHERWISE NOTED.
- 10.2. CONSTRUCTION EQUIPMENT ACCESS BETWEEN VARIOUS 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 RETAINED ARBORIST AT THE PRE-CONSTRUCTION MEETING OR BEFORE.
- PROPOSED LANDSCAPE PLANTINGS WITHIN TREE PROTECTION AREAS SHALL BE INSTALLED BY HAND. MECHANIZED EQUIPMENT SHALL NOT BE USED OUTSIDE THE LOD OR OFF OF EXISTING PAVED AREAS TO EXCAVATE FOR PLANTINGS OR FOR STAGING PLANT **MATERIAL**
- 10.4. COORDINATE PLANTING LOCATIONS WITHIN CRZS WITH THE RETAINED ARBORIST TO AVOID UNNECESSARY ROOT DAMAGE. PLANTING PITS WITHIN CRZS SHOULD BE DUG BY HAND OR USING AIRTOOL EXCAVATION EQUIPMENT. ROOTS GREATER THAN 1" SHOULD NOT BE CUT.

11. ROOT PROTECTION MATTING

- 11.1. TEMPORARY MATTING TO PROTECT EXISTING ROOTS AND SOILS FROM PROPOSED SHORT-TERM CONSTRUCTION TRAFFIC IMPACTS.
- 11.2. TO PREPARE SITE, REMOVE ANY DEBRIS BY HAND AND SPREAD AN EVEN LAYER OF WOOD CHIP MULCH 12" THICK OVER THE ENTIRE AREA TO RECEIVE MATTING.
- 11.3. MATTING SHALL BE INSTALLED IN A SINGLE LAYER ON MULCH.
- 11.4. 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. 11.5. MATTING MATERIAL SHALL BE TENSAR ROADRAIN RD7 OR APPROVED EQUIVALENT.
- 11.6. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST
- 11.7. RPM SHALL NOT BE REMOVED OR DISTURBED BY SITE CONTRACTORS.
- 11.8. INSTALLATION OF SILT FENCE FOR EROSION CONTROL SHALL BE COORDINATED WITH THE PROJECT FORESTER AND DESIGN TEAM TO PREVENT DAMAGE TO TREE ROOTS FROM TRENCHING OPERATIONS. TRENCHLESS EROSION CONTROL MEASURES (SUCH AS COMPOST FILTER SOCKS OR SIMILAR DEVICES) MAY BE USED IN LIEU OF OR IN COMBINATION WITH SILT FABRIC.

12. SPECIAL DEMOLITION PROCEDURES

- 12.1. DEMOLITION OF WALLS, FOOTINGS, WALKS, CURBS, AND OTHER IMPROVEMENTS OR HARDSCAPE WITHIN TREE PROTECTION AREAS (TPAS) SHALL BE PERFORMED BY THE RETAINED ARBORIST AND DIRECTLY SUPERVISED BY A CERTIFIED ARBORIST.
- 12.2. MECHANIZED EQUIPMENT SHALL NOT ENTER THE TPAS, EXCEPT WHERE EXPLICITLY APPROVED BY THE PROJECT FORESTER AND UTILIZING APPROVED ROOT PROTECTION
- 12.3. 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. 12.4. ROOTS ENCOUNTERED DURING DEMOLITION SHALL BE REVIEWED ON A CASE-BY-CASE BASIS BY THE RETAINED ARBORIST. THE ARBORIST SHALL PROVIDE APPROPRIATE TREATMENT OR PRUNING METHODS AS NEEDED AND IN GENERAL CONFORMANCE WITH ACCEPTED INDUSTRY STANDARDS AND THIS SECTION.

13. SSAT EXCAVATION WITHIN CRZS

- 13.1. PROPOSED UTILITIES, DRAINAGE PLUMBING, LIGHTING CONDUITS, HARDSCAPE, IRRIGATION, OR OTHER IMPROVEMENTS WITHIN TREE PROTECTION AREAS (TPAS) SHALL BE EXCAVATED BY SUPERSONIC AIRTOOL (SSAT) TO MINIMIZE DAMAGE TO ROOT SYSTEMS.
- 13.2. OWNER, CONTRACTOR, RETAINED ARBORIST, AND *DDOT* SHALL REVIEW THE PROPOSED LOCATION(S) DURING THE PRE-CONSTRUCTION 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 RETAINED 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. SSAT LANDSCAPE PLANTING EXCAVATION

- 14.1. PROPOSED LANDSCAPE PLANTING OF B&B PLANTS WITHIN CRITICAL ROOT ZONES WITHIN TPAS SHALL BE REVIEWED BY THE RETAINED ARBORIST, CONTRACTOR, AND DDOT IN THE FIELD TO DETERMINE POTENTIAL FOR DAMAGE TO PRIORITY ROOTS SYSTEMS OF SELECT TREES AND LAYOUT THE LIMIT OF WORK.
- 14.2. PRE-WATERING OF THE PROPOSED AREAS OF EXCAVATION DURING SUMMER AND FALL MONTHS IS RECOMMENDED TO MAINTAIN ROOT / SOIL MOISTURE.
- 14.3. THE RETAINED ARBORIST SHALL PROVIDE A QUALIFIED ARBORIST CREW EXPERIENCED WITH THE SSAT AND LANDSCAPE PLANTING EXCAVATION TO PROTECT ADJACENT NATURAL RESOURCES AND CONSTRUCTION WORK, 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.
- 14.4. THE RETAINED ARBORIST SHALL PROVIDE ADEQUATE PROTECTION FOR PEDESTRIANS, STRUCTURES, VEHICLES, ETC. DURING THIS OPERATION.

15. SOIL CARE/ FERTILIZATION

- 15.1. 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.
- 15.2. SUBMIT ALL TEST RESULTS AND PRODUCT SPECIMEN LABELS TO THE PROJECT TEAM FOR APPROVAL PRIOR TO TREATMENT.
- 15.3. 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 CURRENT ANSI A-300 (PART 2) TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (FERTILIZATION).
- 15.4. APPLICATION RATES SHALL NOT EXCEED A RATE OF 1 POUND OF ACTUAL NITROGEN PER 1,000 SQUARE FEET ANNUALLY. FERTILIZER USED SHOULD BE PREDOMINANTLY SLOW RELEASE NITROGEN, POTASSIUM PHOSPHITES, OTHER NUTRIENTS AS RECOMMENDED BY SOIL TESTING, AND INCLUDE HUMIC AND FULVIC ACIDS.

16. TREE CONDITION MONITORING INSPECTIONS

- 16.1. RETAINED 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.
- 16.2. 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.

16.3. A WRITTEN SUMMARY REPORT INCLUDING SPECIFIC TREATMENTS MADE AND RECOMMENDATIONS FOR ADDITIONAL TREATMENTS SHALL BE PROVIDED TO THE OWNER AND PROJECT FORESTER SUBSEQUENT TO EACH INSPECTION.

17. TREE GROWTH REGULATOR (TGR)

- 17.1. PACLOBUTRAZOL SOIL-APPLIED TREE GROWTH REGULATOR (CAMBISTAT® OR EQUIVALENT) SHALL BE APPLIED TO INDICATED TREES. APPLICATIONS SHALL FOLLOW MANUFACTURER'S LABEL AND APPLICABLE LAWS.
- 17.2. 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.

18. TREE TRUNK PROTECTION WRAP

- 18.1. 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 TENSAR ROADRAIN RD7) OR EQUIVALENT.
- 18.2. WRAP SHALL BE NOT LESS THAN 10' HIGH ON TRUNK OR UP TO THE LOWEST LIMB
- (WHICHEVER IS LESS). EXPOSED ROOT FLARE SHALL ALSO BE FULLY COVERED.
- WRAP SHALL BE TIED WITH ROPE OR WIRE. TIE MATERIAL SHALL NOT CONTACT TRUNK. 18.4. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.

19. QUALITY ASSURANCE

- 19.1. GENERAL CONTRACTOR'S ON-SITE (RETAINED) ARBORIST:
- THE GENERAL CONTRACTOR SHALL ENTER INTO A CONTRACTUAL RELATIONSHIP WITH AN EXPERIENCED ARBORICULTURE/TREE CARE FIRM TO PERFORM THE WORK SPECIFIED HEREIN. THIS CONTRACT SHALL BE FULLY EXECUTED PRIOR TO RELEASE OF THE DEMOLITION/BUILDING PERMIT. THE GENERAL CONTRACTOR SHALL PROVIDE PROOF OF SUCH CONTRACT TO DDOT TO THE EXTENT DDOT IS ASSURED WORK WILL BE EXECUTED BY A COMPETENT FIRM AS OUTLINED BELOW:
- THE RETAINED ARBORIST IS TO BE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) AND LICENSED IN THE JURISDICTION WHERE PROJECT IS LOCATED, AS APPLICABLE. ALL WORK PERFORMED BY THE RETAINED ARBORIST SHALL BE REVIEWED AND APPROVED BY THE OWNER'S ARBORIST CONSULTANT OR AS APPROVED BY DDOT

19.2. RETAINED ARBORIST FIRM QUALIFICATIONS:

- RETAINED ARBORIST FIRM SHALL COMPLY WITH THE FOLLOWING:
- ESTABLISHED BUSINESS WITH DOCUMENTED EXPERIENCE OF AT LEAST FIVE YEARS. EXPERIENCE WORKING ON A MINIMUM OF THREE COMMERCIAL, NONGOVERNMENTAL OR GOVERNMENTAL PROJECTS WHERE SIMILAR TREE PRESERVATION PROGRAMS
- HAVE BEEN SUCCESSFULLY IMPLEMENTED. PROPERLY LICENSED AND INSURED TO PERFORM ARBORICULTURAL WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
- 19.3. PROVIDE NAMES OF EACH INDIVIDUAL TO COMPLY WITH THE FOLLOWING:
- CERTIFICATION BY ISA (CERTIFIED ARBORIST OR BOARD CERTIFIED MASTER ARBORIST)
- MINIMUM BS OR AS DEGREE IN FORESTRY, ARBORICULTURE, OR RELATED FIELD RESUMES SHOULD REFLECT COMBINED 5 YEARS FULL-TIME EXPERIENCE ON SIMILAR
- TREE PRESERVATION PROJECTS. 19.4. PROVIDE INDIVIDUAL(S) NAMES, CERTIFICATIONS, AND EACH ANTICIPATED ROLE IN THIS PROJECT. ROLE(S) SHALL BE DEFINED AS ONE OR MORE OF THE FOLLOWING:
- PROJECT MANAGER
- TECHNICAL OVERSIGHT 19.4.2.
- FIELD ARBORIST/TECHNICIAN
- 19.5. FOR EACH STAFF MEMBER, LIST A MINIMUM OF THREE CONSTRUCTION PROJECTS AND A MINIMUM THREE YEARS EXPERIENCE IN THE FOLLOWING TECHNICAL APPLICATIONS:
- SOIL AMENDMENT PRESCRIPTIONS AND APPLICATIONS
- ROOT PROTECTION MATTING (RPM) OR SIMILAR APPLICATIONS
- CONSTRUCTION OVERSIGHT AND MONITORING
- COORDINATION OF ARBORICULTURAL ACTIVITIES WITH CONSTRUCTION PROJECT

20. PUBLICATIONS INCLUDED BY REFERENCE

- PUBLICATIONS LISTED HEREIN ARE PART OF THIS WORK TO EXTENT REFERENCED: 20.1. ANSI A300 STANDARD PRACTICES FOR TREES, SHRUBS, AND OTHER WOODY PLANT
- 20.1.1. PART 1 -- 2017, TREE PRUNING
- 20.1.2. PART 2 -- 2018, SOIL MANAGEMENT
- 20.1.3. PART 3 -- 2013, SUPPLEMENTAL SUPPORT SYSTEMS
- 20.1.4. PART 4 -- 2014, LIGHTNING PROTECTION SYSTEMS PART 5 -- 2019, MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE
- DEVELOPMENT, AND CONSTRUCTION PART 6 -- 2018, PLANTING AND TRANSPLANTING
- PART 8 -- 2020, ROOT MANAGEMENT 20.1.8. PART 9 -- 2017, TREE RISK ASSESSMENT
- 20.1.9. PART 10 -- 2016, IPM 20.2. ANSI Z133.1 -- 2017 AND MOST RECENT UPDATES, ARBORICULTURAL OPERATIONS --SAFETY REQUIREMENTS

- 21. GRADE FILL PLACEMENT WITHIN CRZS 21.1. PROPOSED GRADE FILL PROPOSED WITHIN PROTECTED TREE CRZS SHALL BE WELL DRAINED WITH HIGHER SAND/LOAM CONTENT AND LOWER CLAY IN ORDER TO PROMOTE DRAINAGE AND AERATION INTO EXISTING GRADE. GRADE FILL SHALL NOT EXCEED 6"
- 21.2. SHOULD EXISTING SOILS WITHIN PROTECTED CRZS BE DESIGNATED AS "COMPACTED", THEN DECOMPACTION USING AN AIR-TOOL SHALL BE DONE PRIOR TO OR IN CONJUNCTION WITH FILL PLACEMENT. DEPTH OF AIR TOOL DECOMPACTION SHALL BE 12" OR UNTIL
- REFUSAL. PRE-WATERING DURING DROUGHT TIMES IS REQUIRED. 21.3. PLACEMENT OF FILL SHALL NOT FURTHER COMPACT EXISTING SOIL. USE OF RUBBER
- TRACKED, LOW-PSI EQUIPMENT IS REQUIRED, OR EQUIVALENT. 21.4. GRADE FILL SHALL NOT BE PLACED TO COVER THE ROOT FLARE. USE CAUTION TO AVOID
- GOUGES OR SCRAPES TO TRUNK OR ROOT FLARE. 21.5. WOOD CHIP MULCH SHALL BE INSTALLED AFTER FINAL GRADING.

22. <u>VERTICAL MULCHING</u>

- 22.1. THE AREA DESIGNATED FOR THIS OPERATION SHALL BE 30" FROM TREE BASE TO ½ THE CRZ RADIUS. FOLLOW UP IF NEEDED CAN TREAT THE OUTER ½ OF THE CRZ AREA. ALSO TREAT ANY AREA UNDER ROOT PROTECTION MATTING INSIDE CRZS, ONCE THE RPM IS
- 22.2. USE SUPERSONIC AIR TOOL (SSAT 150 OR 300CFM AS SITE DICTATES) TO VERTICALLY BORE 12"-18" DEEP HOLES MINIMUM OF 2" DIAMETER ON A SPACING OF ONE HOLE PER

22.5. THE OPERATOR SHALL ATTEMPT TO CAUSE HORIZONTAL FRACTURING WITH THE SSAT

SQUARE YARD 3' x 3'. 22.3. BACKFILL WITH CHIP-SIZED, PRE-MOISTENED BIOCHAR UP TO TOP AND COVER.

22.4. CERTIFY THAT ADEQUATE SOIL MOISTURE IS AVAILABLE OR PRE-WATER AREA.

AMONG THE SOIL LAYERS TO INCREASE PORE SPACE.

22.6. TYPICALLY THIS OPERATION IS FOLLOWED BY HIGH PRESSURE LIQUID FERTILIZATION INJECTION. OFFSET EACH HOLE TO FILL FISSURES. REFER TO SOIL CARE/FERTILIZATION.

- 23. SUPPLEMENTAL WATERING 23.1. RETAINED ARBORIST SHALL PROVIDE SUPPLEMENTAL WATERING FOR SIGNIFICANT TREES DURING SEASONAL DROUGHT TIMES.
- 23.4. TREES REQUIRING THIS TREATMENT ARE INDICATED IN THE TPAK. OTHER TREES WILL NOT RECEIVE THIS TREATMENT.
- 23.5. MINIMUM WATERING SHALL BE CONSIDERED TO BE 6 APPLICATIONS PER GROWING SEASON, TYPICALLY JULY THRU OCTOBER WITH THE EXACT TIMING AND DURATION TO BE DETERMINED BY THE PROJECT FORESTER AND *DDOT*. CALIBRATE FOR 5 TO 10 GALLONS PER DIAMETER INCH PER TREE. FOR EXAMPLE, A 30" DBH TREE = 150-300 GALLONS PER WATERING.

- 23.6. BASED UPON THE NUMBER AND SIZE OF TREES VARIOUS STRATEGIES CAN BE CONSIDERED TO MAINTAIN ADEQUATE SOIL MOISTURE DURING THESE TIMES. THESE STRATEGIES MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
- 23.6.1. FIRE HYDRANT CONNECTION WITH TIMER AND DRIP IRRIGATION HOSE / TUBING.
- WATER TANK TRUCK AND HAND APPLIED AS DIRECTED.
- TEMPORARY ABOVE GRADE POLY TANK WITH TIMERS FOR DRIP OR SOAKER HOSES AT EACH TPA.
- 23.6.4. 30-50 GALLON WATERING CANS WITH 6-8 DRILLED HOLES IN BOTTOM TO ALLOW SLOW SEEPING OF WATER WITH SPACING AND ROTATION TO REACH DESIRED GALLONS.
- EQUIVALENT MEANS OF EFFECTIVELY WATERING TREES AS APPROVED BY PROJECT FORESTER AND *DDOT* .
- 23.7. DROUGHT TIMES SHALL BE DEFINED AS:
- 23.7.1. PERIODS DURING THE GROWING SEASON OF TWO WEEKS OR LONGER, WHERE DAYTIME HIGH TEMPERATURES REACH 80 DEGREES FAHRENHEIT OR HIGHER AND LESS THAN 3/4" RAINFALL IS RECORDED PER WEEK; OR,
- PERIODS DURING THE GROWING SEASON DESIGNATED AS "ABNORMALLY DRY" OR "DROUGHT" OF ANY SEVERITY, BY THE U.S. DROUGHT MONITOR (HTTP://DROUGHTMONITOR.UNL.EDU/); OR,
- 23.7.3. ANY PERIOD OF EXTRAORDINARY CIRCUMSTANCE, AS DETERMINED BY THE PROJECT
- 23.8. A PRESCRIPTION FOR THE NUMBER OF GALLONS AND STRATEGY FOR WATERING DESIGNATED TREES WILL BE DEVELOPED. LARGE MATURE TREES WITH IMPACTS TO ROOT SYSTEMS REQUIRE AS MUCH AS 100- 250 GALLONS PER WEEK DURING 90 DEGREE DAYS DURING SUMMER DROUGHT TIMES.
- 23.9. PERIODIC INSPECTIONS BY AN ISA CERTIFIED ARBORIST (PROVIDED BY THE RETAINED ARBORIST) AT THIS TIME ARE CRITICAL. DEPTH OF MOISTURE IN SOILS SHALL BE DETERMINED BY SOIL SAMPLE TUBE OR OTHER EXPLORATORY MEANS.
- 23.10. PRIOR TO CONSTRUCTION COMPLETION, THE RETAINED ARBORIST SHALL PROVIDE A POST-CONSTRUCTION AFTERCARE PROGRAM FOR UP TO THREE (3) YEARS DURATION TO BE APPROVED BY THE PROJECT FORESTER, OWNER, AND DDOT

DEFINITIONS

- 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.
- **Project Forester:** Natural resource consulting firm contracted by the developer to develop tree preservation plans, methods, details, and specifications in collaboration with the project design team. Project Forester may provide site investigation and documentation (root investigation studies, GPR, tree inventories, assessments, forest stand delineations, etc.); construction-phase monitoring; coordinate between design team, construction team, and Retained Arborist; review submittals; and/or other management or oversight tasks.
- Retained 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 tree removal.

DATE	JOB	CONTRACTOR	NOTES	OK'd
	Pre-construction meeting (Raze)			
	Pre-construction meeting (Construction)			
	Apply tree growth regulator*			
	Install tree protection fencing* (Raze)			
	Install tree protection fencing* (Construction)			
	Root pruning*			
	Mulch application (Raze)			
	Mulch application (Construction)			
	Tree removals* (Raze)			
	Tree removals* (Construction)			
	Canopy pruning* (Raze)			
	Arborist oversight of excavation*			
	Construction monitoring of tree protection devices and tree health*†			
	Special demolition*			
	Vertical mulching*			
	Install temporary Root Protection Matting (as needed)*			
	Supplemental watering (note responsible party, watering method(s), and log application rate(s))			
	Year 1 Soil Care/Fertilization*§			
	Removal of tree protection devices.			
	Year 1 inspections*‡			
	Year 2 inspections*‡			
	Year 3 inspections*‡			

* Performed by or under supervision of ISA Certified Arborist. + Monthly during demolition and construction for non-transplant trees. Transplant trees and alternate(s) to be monitored weekly during the leaf-on season and monthly during dormancy.

‡ At least twice annually during the leaf-on season for non-transplant trees. Transplant trees and alternate(s) to be inspected weekly

during the leaf-on season and monthly during dormancy.

§ Note product(s) and application rate(s).



Horizontal Datum: DC Surv. Vertical Datum: DCDPW

Boundary and Topo Source:

Approved CK CK

WSSI Project Number:

32045.01

Vika Capitol