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EX. UTILITY POLE TO REMAIN. 5' WIDTH SIDEWALK IS PROPOSED AT THE BACK OF THE POLE.
- 

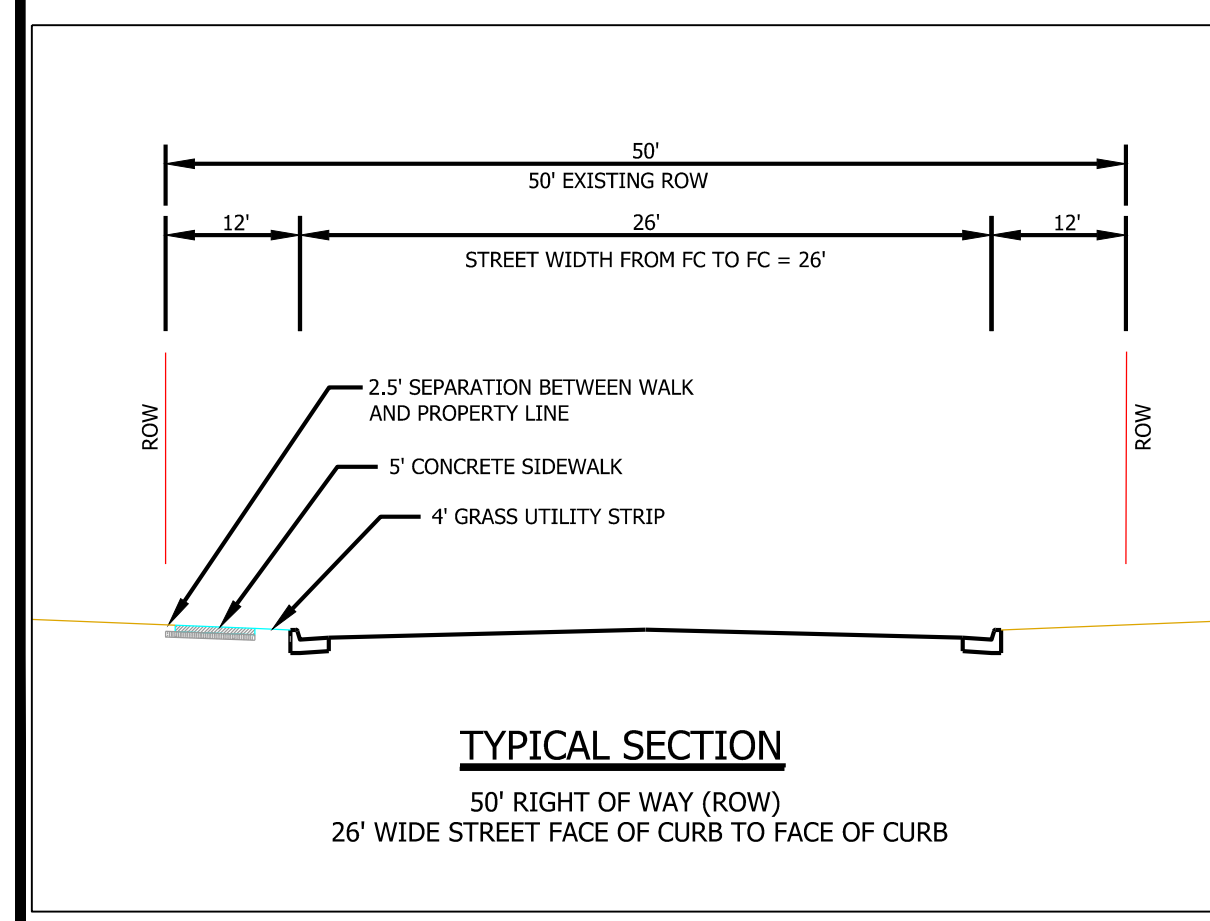
TREE# 118
38" ARBORVITAE IN FAIR CONDITION. LIMBED UP; MULTISTEM. PROPOSED SIDEWALK WILL IMPACT THE STRUCTURAL ROOT ZONE. TREE LIKELY TO BE REMOVED. REQUIRES FURTHER STUDY AT FINAL ENGINEERING.
- 

TREE# 119
10" KWANZAN CHERRY IN FAIR CONDITION. TRUNK GIRDLING.
- 

TREE# 120
26" JAPANESE MAPLE IN FAIR CONDITION. MULTISTEM; TWISTED TRUNK. PROPOSED SIDEWALK WILL IMPACT THE STRUCTURAL ROOT ZONE. TREE NEED TO BE REMOVED.
- 

EX. UTILITY POLE TO REMAIN. 5' WIDTH SIDEWALK IS PROPOSED AT THE BACK OF THE POLE.
- 

TREE# 121
47" SILVER MAPLE IN FAIR CONDITION. CODOMINANT TRUNK; IMPROPER LIMB PRUNING. PROPOSED SIDEWALK WILL IMPACT THE STRUCTURAL ROOT ZONE. TREE LIKELY TO BE REMOVED. REQUIRES FURTHER STUDY AT FINAL ENGINEERING.

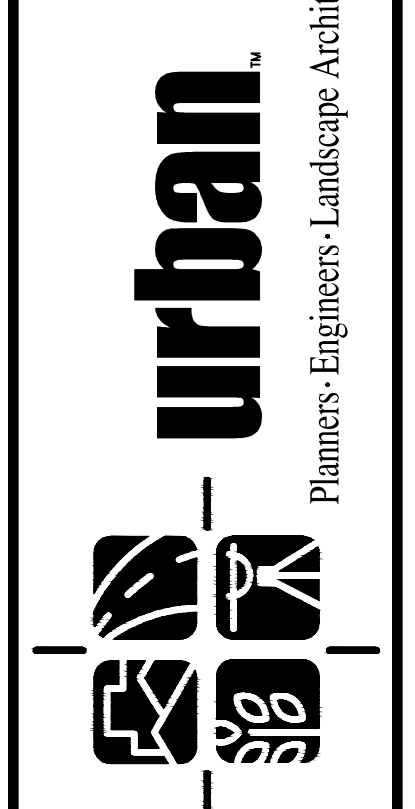


CONCEPT 1
SIDEWALK ALONG EAST SIDE OF FREDERICK ST SW. THE SIDEWALK WILL EXTEND FROM THE TAPAWINGO RD SW INTERSECTION TO THE KINGSLEY RD SW INTERSECTION.

NO.	DATE	DESCRIPTION	REVIEWED	DATE

PLAN DATE
12/8/2023
01/22/2024

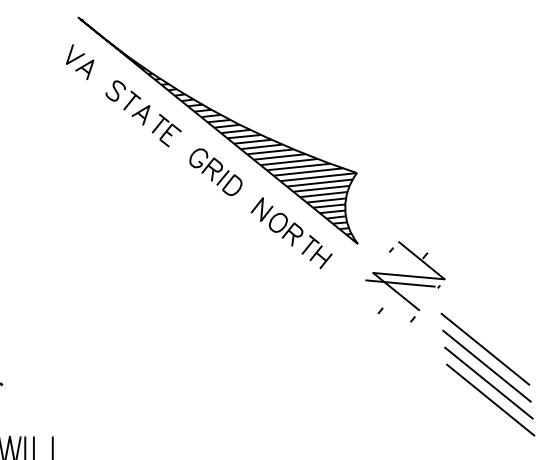
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COMMONWEALTH OF VIRGINIA
C. RYAN CONNOR
Lic. No. 039531
01/22/2024
PROFESSIONAL ENGINEER

CONCEPT 1
FREDERICK STREET SW PHASE II
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
SCALE: 1"=30'
DATE: DECEMBER, 2023

SHEET
1
OF
6
FILE No.
PP-2593



TREE# 122
20" CRAPE MYRTLE
IN GOOD CONDITION.
MULTI-STEM. IN THE PATH
OF SIDEWALK. TREE TO
BE REMOVED.

TREE# 123
6' HT VIBURNUM
IN VERY POOR CONDITION.
DYING.

TREE# 124
10' HT DOUBLEFILE
VIBURNUM
IN GOOD CONDITION.

TREE# 127
5" CYPRUS
IN GOOD CONDITION.
MULTI-STEM.

TREE# 131
8" WHITE PINE
IN FAIR CONDITION.
PROPOSED SIDEWALK MAY
IMPACT THE CRITICAL
ROOT ZONE.

TREE# 132
29" JAPANESE
CRYPTOMERIA
IN GOOD CONDITION.
CO-DOMINANT TRUNK.
PROPOSED SIDEWALK
MAY IMPACT THE
STRUCTURAL ROOT ZONE.

TREE# 133
21" JAPANESE MAPLE
IN GOOD CONDITION.
MULTI-STEM. IN THE
PATH OF SIDEWALK.
TREE TO BE
REMOVED.

TREE# 134
28" RED MAPLE
IN FAIR CONDITION.
PROPOSED SIDEWALK
MAY IMPACT THE
CRITICAL ROOT ZONE.

TREE# 136
12" CYPRESS
IN FAIR CONDITION.
OVERHEAD WIRES.
PROPOSED SIDEWALK WILL
IMPACT THE STRUCTURAL
ROOT ZONE. TREE TO BE
REMOVED.



EX. UTILITY POLE TO
REMAIN. 5' WIDTH
SIDEWALK IS
PROPOSED AT THE
BACK OF THE POLE.

TREE# 125
57" KWANZAN
CHERRY
IN FAIR CONDITION.
DEFOLIATED; MINOR
DECAY VISIBLE. TREE
TO BE REMOVED.

TREE# 126
4" FALSECYPRESS
IN GOOD CONDITION.
MULTI-STEM. TREE TO
BE REMOVED.

TREE# 128
6" DEODAR CEDAR
IN GOOD CONDITION.
IN THE PATH OF SIDEWALK.
TREE TO BE REMOVED.

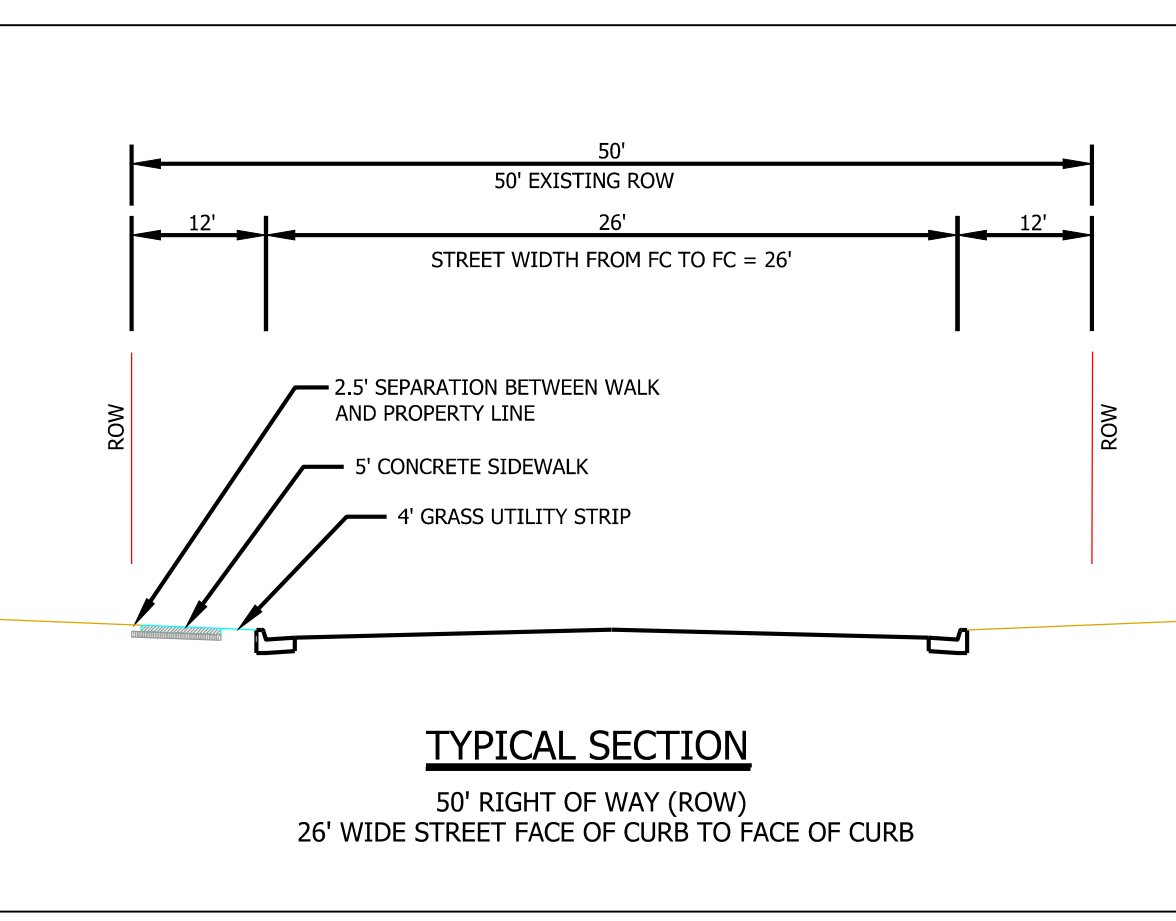
TREE# 129
15" SAWARA CYPRESS
IN GOOD CONDITION.
MULTI-STEM. IN THE
PATH OF SIDEWALK.
TREE TO BE REMOVED.

TREE# 130
10" LAWSON'S CYPRESS
IN POOR CONDITION.
DYING; LEADER CUT
OFF. IN THE PATH OF
SIDEWALK. TREE TO BE
REMOVED.

EX. UTILITY POLE TO
REMAIN. 5' WIDTH
SIDEWALK IS PROPOSED
AT THE BACK OF THE
POLE.

EX. UTILITY POLE TO
REMAIN. 5' WIDTH
SIDEWALK IS PROPOSED
AT THE BACK OF THE
POLE.

TREE# 135
13" WEEPING ATLAS
CEDAR
IN FAIR CONDITION. TREE
TO BE REMOVED.

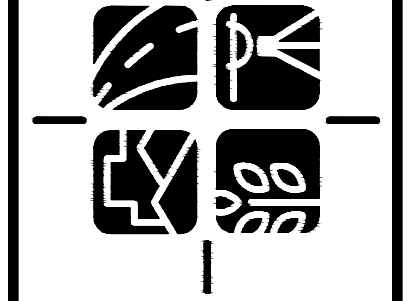


CONCEPT 1
SIDEWALK ALONG EAST SIDE OF FREDERICK ST
SW. THE SIDEWALK WILL EXTEND FROM THE
TAPAWINGO RD SW INTERSECTION TO THE
KINGSLEY RD SW INTERSECTION.

NO.	DATE	DESCRIPTION	REVIEWED	DATE

PLAN DATE
12/8/2023
01/22/2024

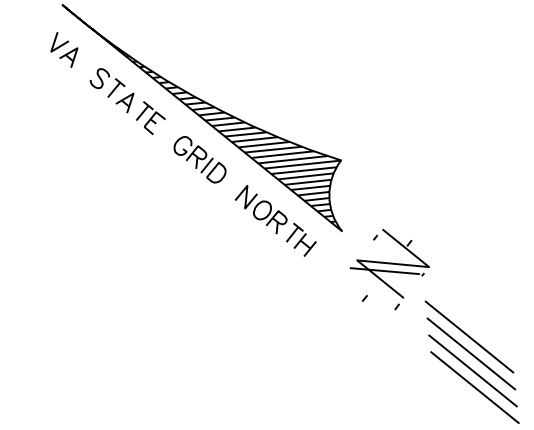
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CONCEPT 1
FREDERICK STREET SW PHASE II
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA

DATE: DECEMBER, 2023
SCALE: 1"=30'
C.I. N/A

SHEET
2
OF
6
FILE No.
PP-2593



TREE# 152
3" QUINCE TREE
IN GOOD CONDITION.
PROPOSED SIDEWALK
MAY IMPACT THE
CRITICAL ROOT ZONE;
POSSIBLE RELOCATION.

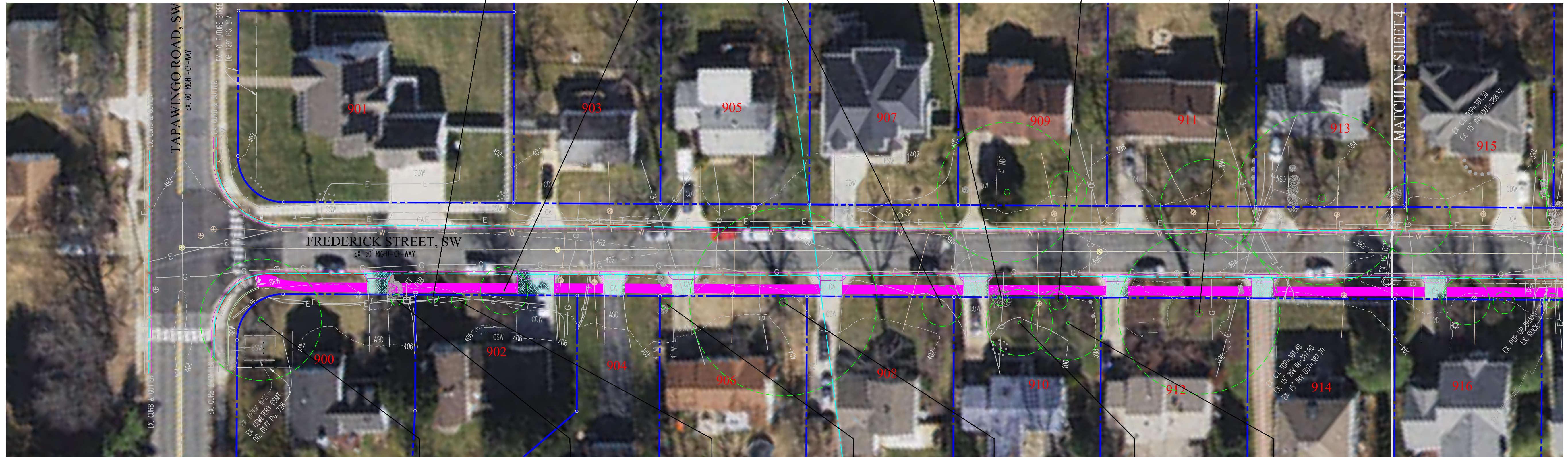
TREE# 150
13" CALLERY PEAR
IN FAIR CONDITION. IN
THE PATH OF SIDEWALK.
TREE TO BE REMOVED.

TREE# 147
11" JAPANESE MAPLE
IN FAIR CONDITION.
TWISTED TRUNK;
CO-DOMINANT TRUNK;
LARGE BASAL CAVITY.
PROPOSED SIDEWALK
MAY IMPACT THE
CRITICAL ROOT ZONE.

TREE# 146
8' HT SPICEBUSH
IN FAIR CONDITION.
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT
THE STRUCTURAL ROOT
ZONE. TREE TO BE
REMOVED.

TREE# 144
5" FLOWERING DOGWOOD
IN GOOD CONDITION.
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT
THE STRUCTURAL ROOT
ZONE.

TREE# 142
44" SILVER MAPLE
IN FAIR CONDITION.
CO-DOMINANT TRUNK.
PROPOSED SIDEWALK WILL
IMPACT THE STRUCTURAL
ROOT ZONE. TREE LIKELY
TO BE REMOVED. REQUIRES
FURTHER STUDY AT FINAL
ENGINEERING.



TREE# 154
33" NORWAY MAPLE
IN FAIR
CONDITION. CO-DOMINANT
TRUNK; SOME SECONDARY
BRANCH DECAY. PROPOSED
SIDEWALK MAY IMPACT THE
CRITICAL ROOT ZONE.

TREE# 153
3" EASTERN RED CEDAR
IN GOOD CONDITION.

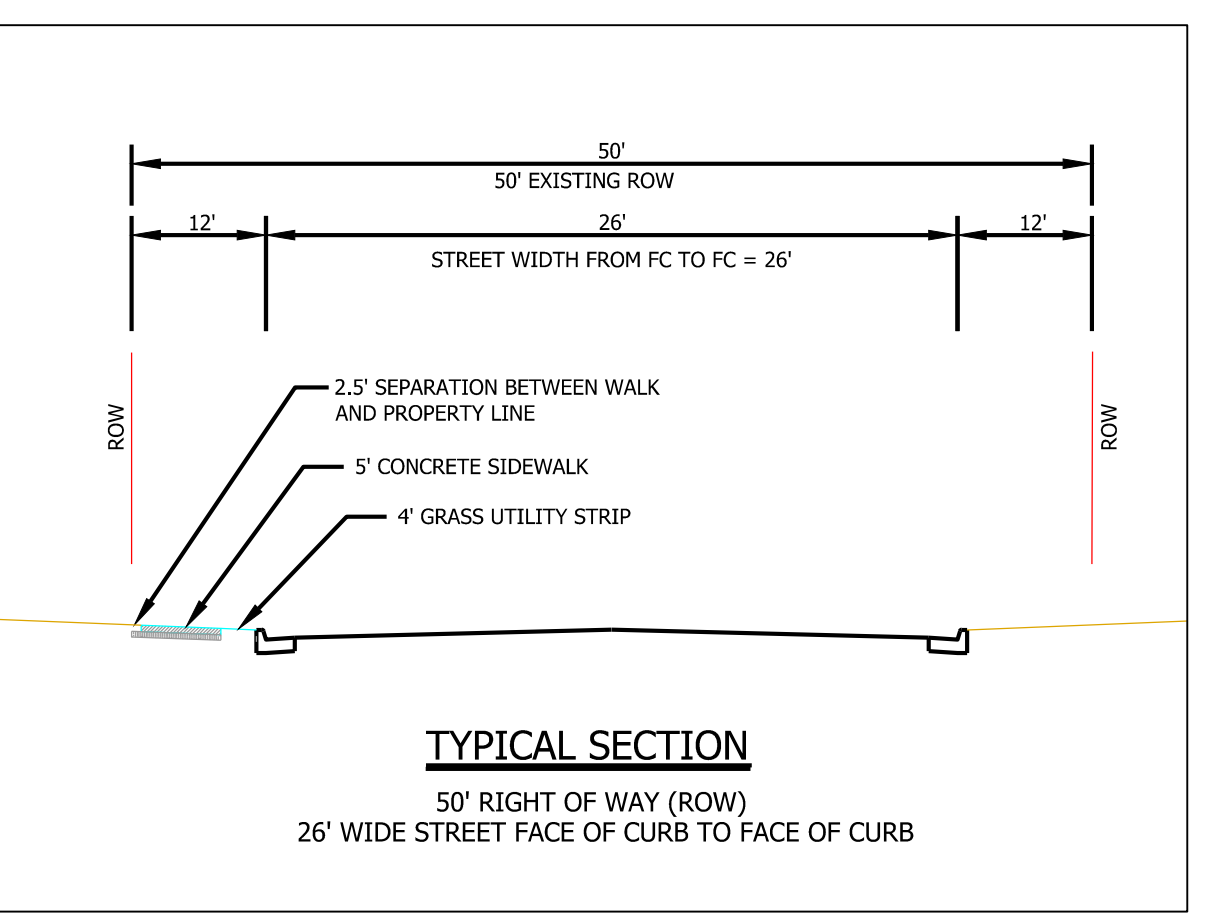
TREE# 151
4" CHERRY
IN FAIR CONDITION.

TREE# 149
3" CHERRY
IN FAIR CONDITION. DECAY
IN TRUNK.

TREE# 148
51" SUGAR MAPLE
IN VERY POOR
CONDITION. DECAY
THROUGHOUT;
MULTI-STEM; REDUCED
CANOPY. TO BE
REMOVED

TREE# 145
18" KOUSA DOGWOOD
IN EXCELLENT CONDITION.
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT
THE CRITICAL ROOT ZONE.

TREE# 143
20" YELLOWWOOD
IN GOOD CONDITION.
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT
THE CRITICAL ROOT
ZONE.

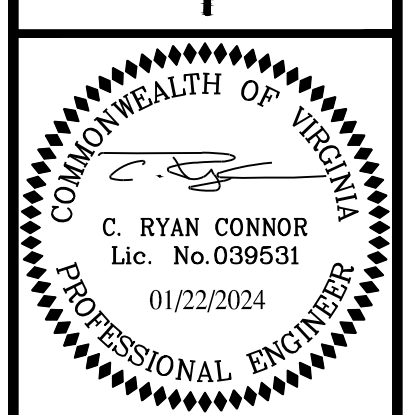
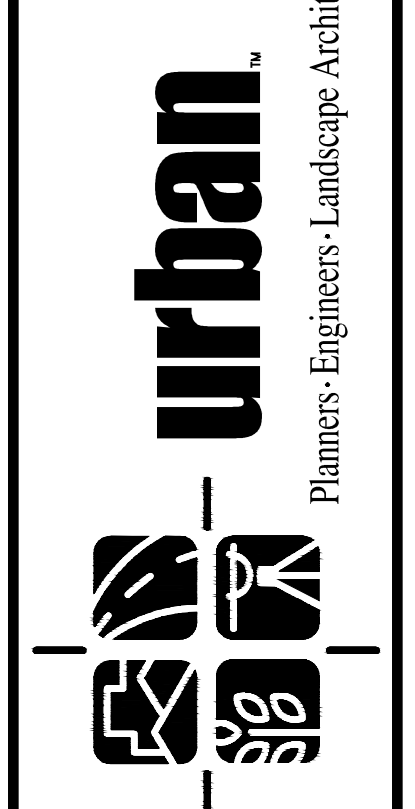


CONCEPT 2
SIDEWALK ALONG WEST SIDE OF FREDERICK ST SW. THE SIDEWALK WILL EXTEND FROM THE TAPAWINGO RD SW INTERSECTION TO THE KINGSLEY RD SW INTERSECTION.

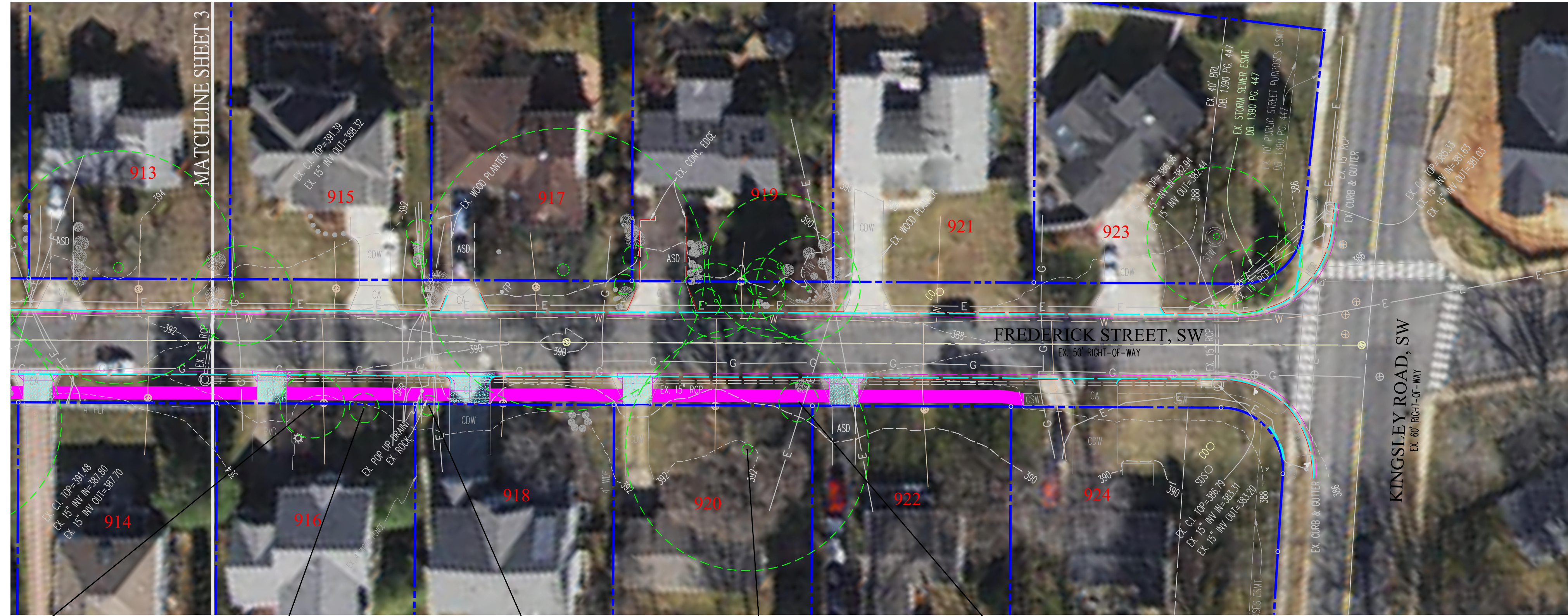
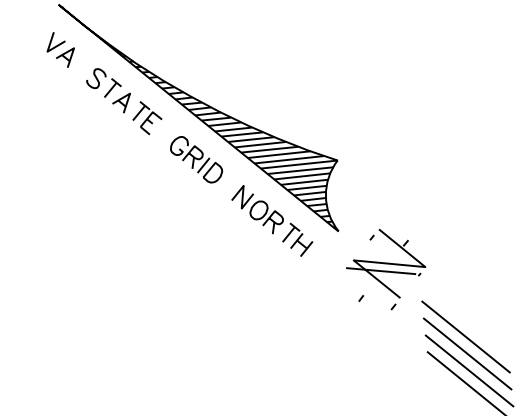
No.	DATE	DESCRIPTION	REV. BY	APPROVED	DATE

PLAN DATE
12/8/2023
01/22/2024

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CONCEPT 2
FREDERICK STREET SW PHASE II
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
DATE: DECEMBER, 2023
SCALE: 1"=30'
SHEET
3
OF
6
FILE No.
PP-2593



TREE# 141
13" RED MAPLE
IN FAIR CONDITION. IN THE
PATH OF SIDEWALK. TREE
TO BE REMOVED.



TREE# 140
6" CALLERY PEAR
IN FAIR CONDITION.
PROPOSED SIDEWALK MAY
IMPACT THE STRUCTURAL
ROOT ZONE.



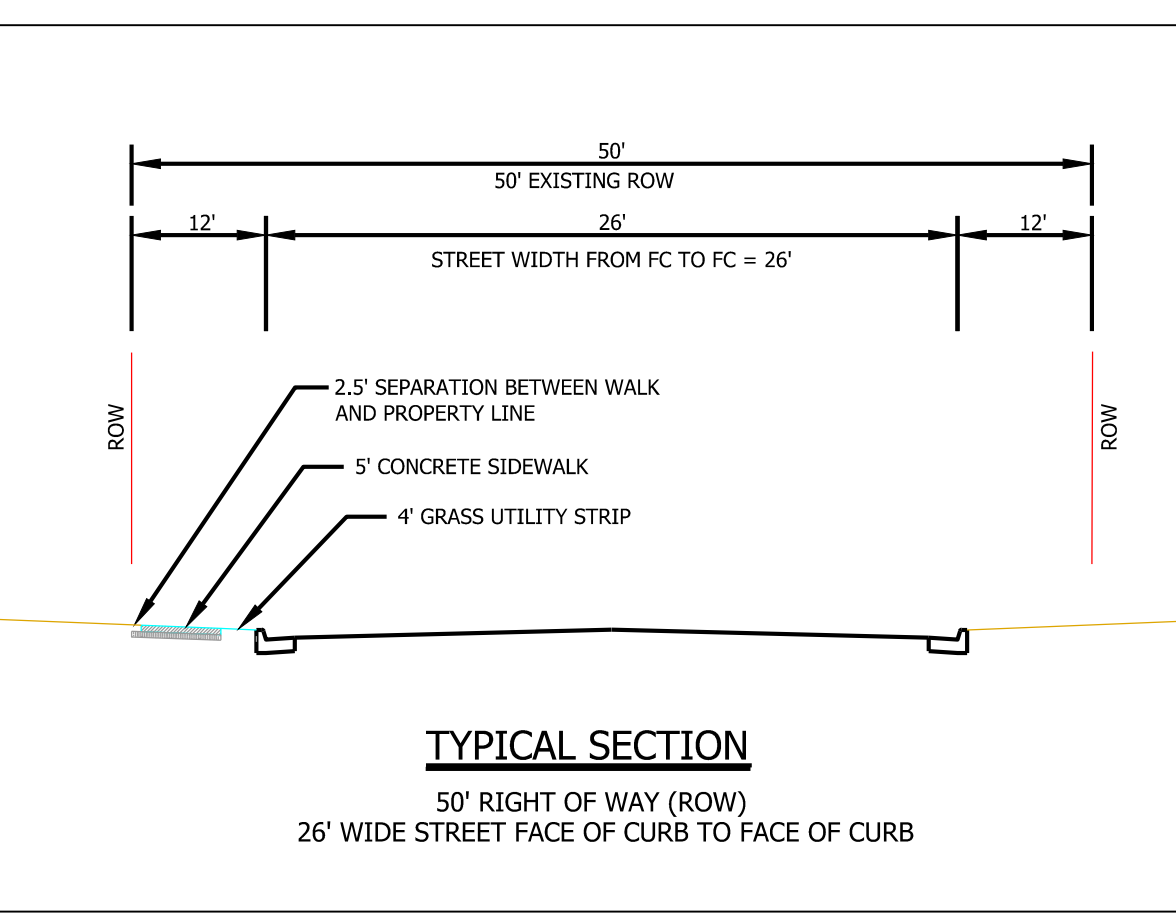
TREE# 139
4" SWEETBAY MAGNOLIA
IN GOOD CONDITION.
MULTISTEM. PROPOSED
SIDEWALK MAY IMPACT
THE STRUCTURAL ROOT
ZONE; POSSIBLE
TRANSPLANT.



TREE# 138
49" GINKGO
IN EXCELLENT
CONDITION. PROPOSED
SIDEWALK MAY IMPACT
THE STRUCTURAL ROOT
ZONE.



TREE# 137
8" FLOWERING DOGWOOD
IN FAIR CONDITION. SOME
TRUNK DECAY. IN THE
PATH OF SIDEWALK.
TREE TO BE REMOVED.

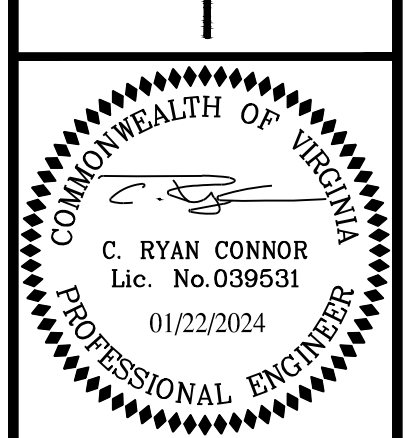
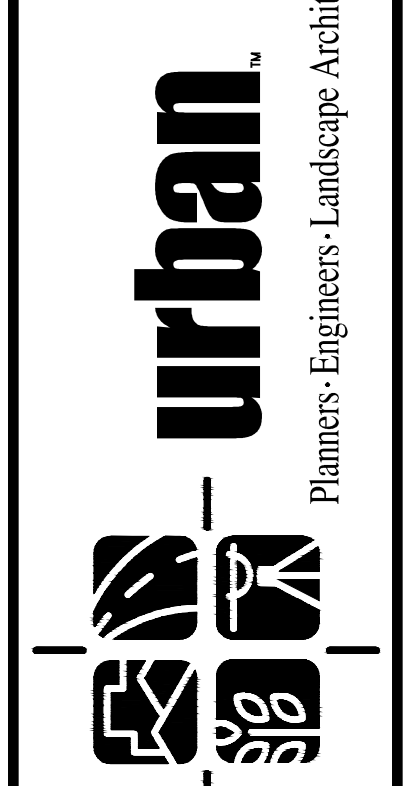


CONCEPT 2
SIDEWALK ALONG WEST SIDE OF FREDERICK
ST SW. THE SIDEWALK WILL EXTEND FROM THE
TAPAWINGO RD SW INTERSECTION TO THE
KINGSLEY RD SW INTERSECTION.

No.	DATE	DESCRIPTION	REVIEW APPROVED	DATE

PLAN DATE
12/08/2023
01/22/2024

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CONCEPT 2
FREDERICK STREET SW PHASE II
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
DATE: DECEMBER, 2023
SCALE: 1"=30'

SHEET
4
OF
6
FILE No.
PP-2593

ANALYSIS OF CONCEPT 1 EAST SIDE - FREDERICK ST SW

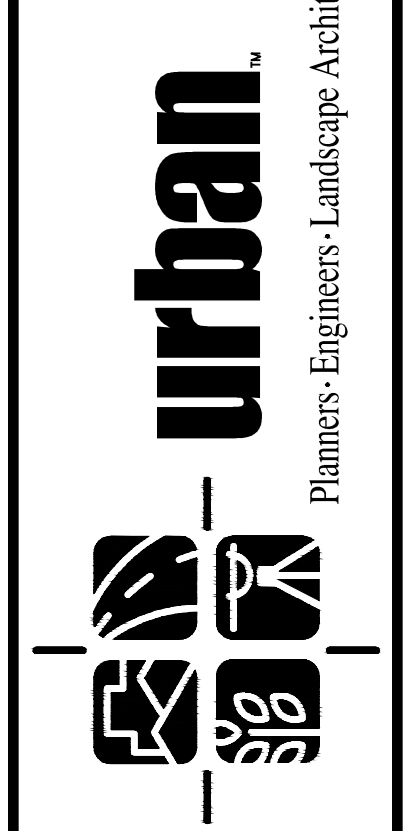
ANALYSIS OF CONCEPT 2 WEST SIDE - FREDERICK ST SW

DESCRIPTION	THIS CONCEPT PROPOSES SIDEWALK ALONG EAST SIDE OF FREDERICK STREET SW. PROPOSED SIDEWALK WILL CONNECT WITH THE EXISTING SIDEWALK ALONG FREDERICK STREET AT THE INTERSECTION WITH TAPAWINGO ROAD SW AND EXISTING ADA RAMP AT THE INTERSECTION WITH KINGSLEY ROAD SW.	THIS CONCEPT PROPOSES SIDEWALK ALONG WEST SIDE OF FREDERICK STREET SW. PROPOSED SIDEWALK WILL CONNECT WITH THE EXISTING ADA RAMP AT THE INTERSECTION WITH TAPAWINGO ROAD SW AND EXISTING ADA RAMP AT THE INTERSECTION WITH KINGSLEY ROAD SW.
TREE IMPACT	TREES ALONG THIS SIDE OF FREDERICK STREET SW VARY IN SIZE AND AGE ACROSS A RANGE FROM NEWLY PLANTED TREES TO ESTABLISHED, MATURE CANOPY TREES. THERE ARE CONSIDERABLE TREES AFFECTED BY THIS CONCEPT AND TWELVE TREES ARE ANTICIPATED TO NEED TO BE REMOVED. SEVERAL OF THESE TREES MAY BE TRANSPLANTED. ADDITIONAL TREES MAY BE AFFECTED DEPENDING ON THE EXTENT OF GRADING FOR THE WALK TO THE CRITICAL ROOT ZONES OF THE TREES.	TREES ALONG THIS SIDE OF FREDERICK STREET SW VARY IN SIZE AND AGE ACROSS A RANGE FROM NEWLY PLANTED TREES TO ESTABLISHED, MATURE CANOPY TREES. THERE ARE MODERATE NUMBER OF TREES AFFECTED BY THIS CONCEPT AND SIX TREES ARE ANTICIPATED TO NEED TO BE REMOVED. SEVERAL OF THESE TREES MAY BE TRANSPLANTED. ADDITIONAL TREES MAY BE AFFECTED DEPENDING ON THE EXTENT OF GRADING FOR THE WALK TO THE CRITICAL ROOT ZONES OF THE TREES.
IMPACTS ON VEGETATION (OTHER THAN TREES)	THERE ARE MINIMAL IMPACTS TO OTHER VEGETATION IN A FEW AREAS BY THIS CONSTRUCTION. THIS ANALYSIS IS FOCUSED MORE ON THE POTENTIAL CONSTRUCTION IMPACTS TO LARGER TREES. IF THIS CONCEPT IS PURSUED, HOMEOWNERS MAY WISH TO CONSIDER TRANSPLANTING PLANTS/SHRUBS OUT OF THE PATH OF THE SIDEWALK CONSTRUCTION TO AREAS ON THEIR LOTS.	THERE ARE MINIMAL IMPACTS TO OTHER VEGETATION IN A FEW AREAS BY THIS CONSTRUCTION. THIS ANALYSIS IS FOCUSED MORE ON THE POTENTIAL CONSTRUCTION IMPACTS TO LARGER TREES. IF THIS CONCEPT IS PURSUED, HOMEOWNERS MAY WISH TO CONSIDER TRANSPLANTING PLANTS/SHRUBS OUT OF THE PATH OF THE SIDEWALK CONSTRUCTION TO AREAS ON THEIR LOTS.
GRADING IMPACTS	THE AREA ALONG FREDERICK STREET WHERE SIDEWALK WOULD BE BUILT IS FLATTER COMPARED TO CONCEPT 2. THE GRADING IMPACT APPEARS TO BE MINIMAL. THE CONSTRUCTION LIMITS WILL BE DETERMINED DURING LATER STAGES OF DESIGN IF THIS CONCEPT IS PURSUED.	THE AREA ALONG FREDERICK STREET SW WHERE SIDEWALK WOULD BE BUILT IS STEEPER COMPARED TO CONCEPT 1. THE GRADING IMPACT ON THIS CONCEPT WILL BE MORE COMPARED TO CONCEPT 1. THE CONSTRUCTION LIMITS WILL BE DETERMINED DURING LATER STAGES OF DESIGN IF THIS CONCEPT IS PURSUED.
CONSTRUCTABILITY ISSUE	THERE DO NOT APPEAR TO BE ANY CONTRACTIBILITY ISSUES WITH THIS CONCEPT. THE 7 POLES ARE LOCATED NEAR TO THE EXISTING CURB ALLOWING SUFFICIENT WIDTH IN THE R/W TO CONSTRUCT THE STANDARD 5' WIDE SIDEWALK.	THERE DO NOT APPEAR TO BE ANY CONSTRUCTABILITY ISSUES WITH THIS CONCEPT. THE 2 POLES ARE LOCATED INSIDE THE PROPERTY LINE ALLOWING SUFFICIENT WIDTH IN THE R/W TO CONSTRUCT THE STANDARD 5' WIDE SIDEWALK.
COST	THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER ROBINSON SIDEWALK PROJECTS. BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS COMPARED TO EACH OTHER.	THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER ROBINSON SIDEWALK PROJECTS .BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS COMPARED TO EACH OTHER.
CONNECTIVITY	BOTH THE SIDEWALK CONCEPTS HAVE SIMILAR CONNECTIVITY.	BOTH THE SIDEWALK CONCEPTS HAVE SIMILAR CONNECTIVITY.
RECOMMENDATION	CONCEPT 2 IS RECOMMENDED BECAUSE IT HAS LESS TREE LOSS, SIMILAR CONNECTIVITY AND LESS UTILITY POLES.	

No.	DATE	DESCRIPTION	REVISIONS

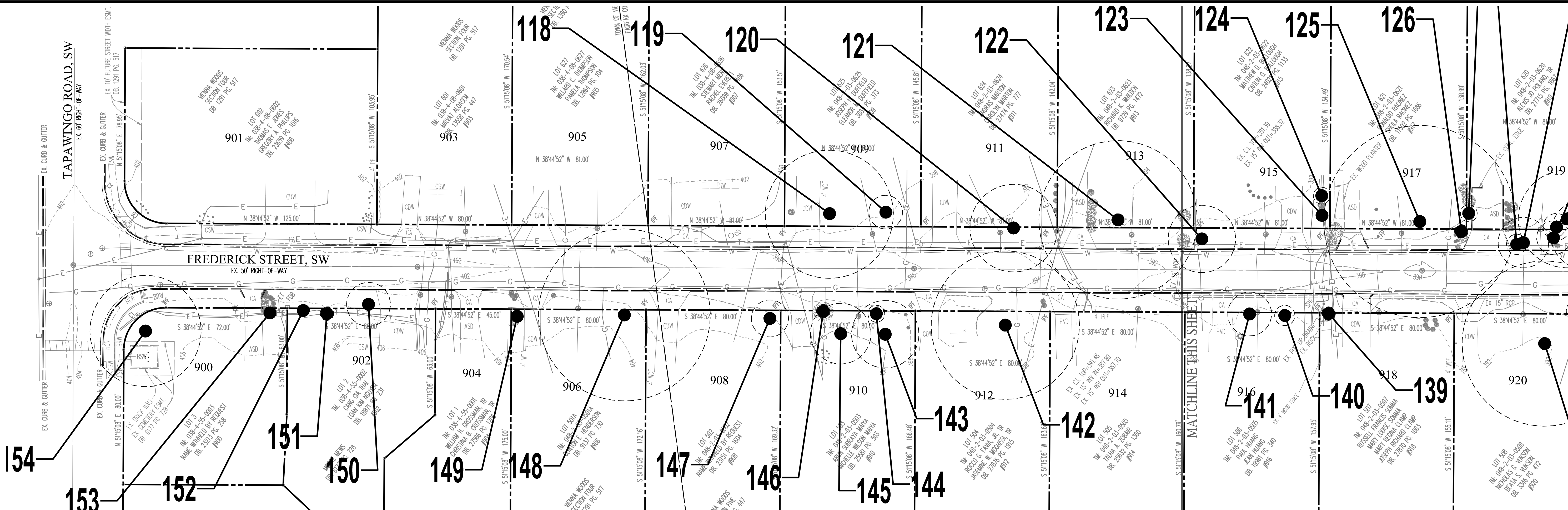
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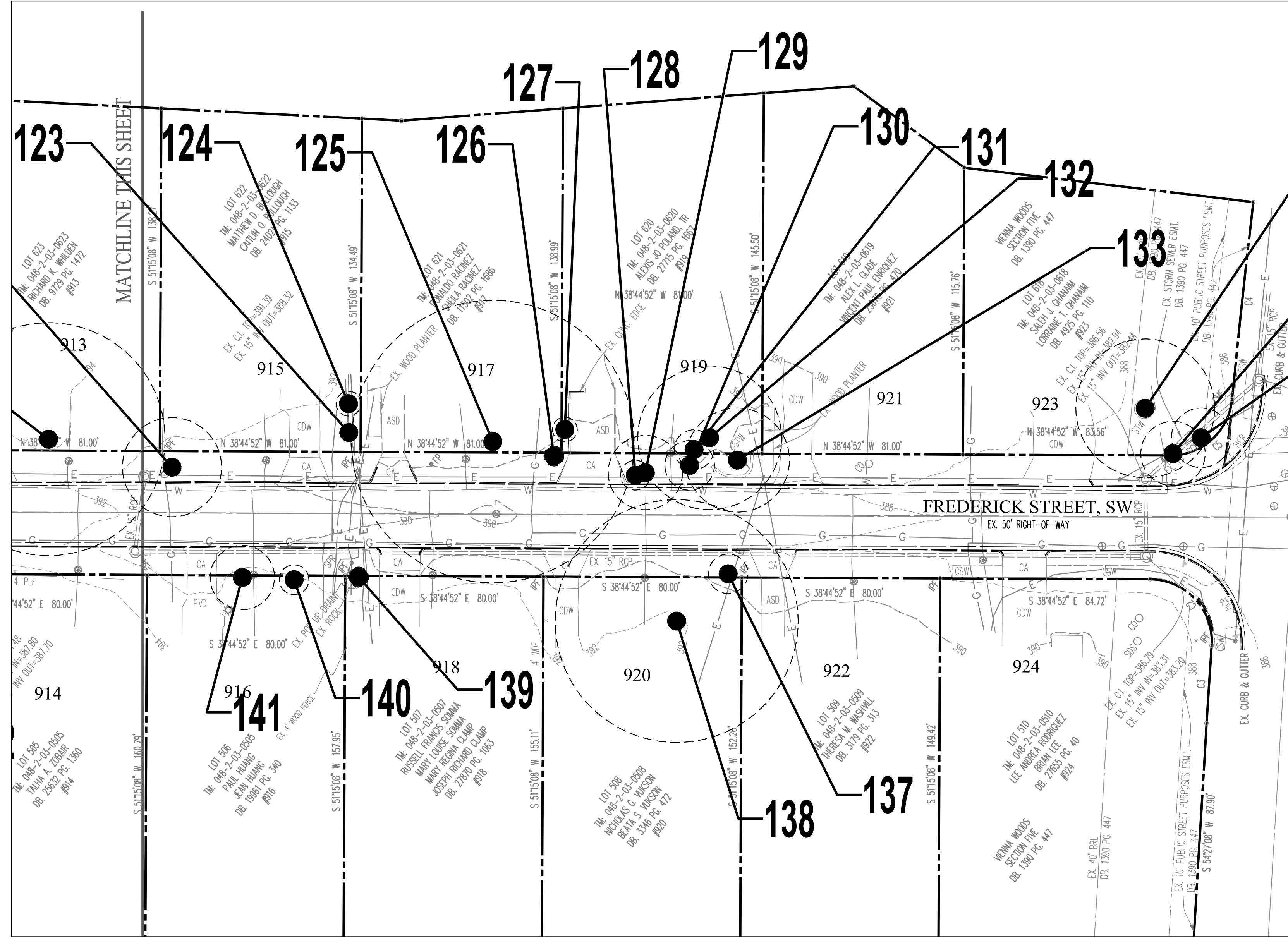
ANALYSIS OF CONCEPT 1 AND CONCEPT 2
FREDERICK STREET SW PHASE II
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
SCALE: N/A
C.I. N/A
DATE: DECEMBER, 2023

SHEET
5
OF
6
FILE No.
PP-2593



TREE INVENTORY & CONDITION ANALYSIS

TREE NO.	SPECIES		SIZE	CRZ	CONDITION RATING	COMMENTS
	Botanical Name	Common Name	DBH (in)	R (ft.)	%	
118	<i>Thuja spp.</i>	Arborvitae	38"	38'	59.38	Limbed up; multistem
119	<i>Prunus semilata 'kanzan'</i>	Kwanzan Cherry	10"	10'	43.75	Trunk girdling
120	<i>Acer palmatum</i>	Japanese Maple	26"	26'	40.63	Multistem/ twisted trunk
121	<i>Acer saccharinum</i>	Silver Maple	47"	47'	50.00	Co-dominant trunk; improper limb pruning
122	<i>Lagerstroemia spp.</i>	Crape Myrtle	20"	20'	65.63	Multistem
123	<i>Viburnum spp.</i>	Viburnum	6' Ht.	3'	12.50	Dying
124	<i>Viburnum plicatum</i>	Doublefile Viburnum	10' Ht.	5'	65.63	
125	<i>Prunus semilata 'kanzan'</i>	Kwanzan Cherry	57"	57'	46.88	Defoliated; minor decay visible
126	<i>Chamaecyparis spp.</i>	Falsecypress	4"	4'	62.50	Multistem
127	<i>Cupressus spp.</i>	Cypress	5"	5'	62.50	Multistem
128	<i>Cedrus deodara</i>	Deodar Cedar	6"	6'	71.88	
129	<i>Chamaecyparis pisifera</i>	Sawara Cypress	15"	15'	71.88	Multistem
130	<i>Chamaecyparis lawsoniana</i>	Lawson's Cypress	10"	10'	25.00	Dying; leader cut off
131	<i>Pinus strobus</i>	White Pine	8"	8'	59.38	
132	<i>Cryptomeria japonica</i>	Japanese Cryptomeria	29"	29'	65.63	Co-dominant trunk
133	<i>Acer palmatum</i>	Japanese Maple	21"	21'	68.75	Multistem
134	<i>Acer rubrum</i>	Red Maple	28"	28'	56.25	
135	<i>Cedrus atlantica</i>	Weeping Atlas Cedar	13"	13'	43.75	One-sided; leaning
136	<i>Chamaecyparis spp.</i>	Cypress	12"	12'	46.88	Overhead wires



TREE INVENTORY & CONDITION ANALYSIS

TREE NO.	SPECIES		SIZE	CRZ	CONDITION RATING	COMMENTS
	Botanical Name	Common Name	DBH (in)	R (ft.)	%	
137	<i>Cornus florida</i>	Flowering Dogwood	8"	8'	56.25	Some trunk decay
138	<i>Ginkgo biloba</i>	Ginkgo	49"	49'	84.38	
139	<i>Magnolia virginiana</i>	Sweetbay Magnolia	4"	4'	75.00	Multistem
140	<i>Pyrus calleryana</i>	Callery Pear	6"	6'	40.63	
141	<i>Acer rubrum</i>	Red Maple	13"	13'	71.88	
142	<i>Acer saccharinum</i>	Silver Maple	44"	44'	56.25	Co-dominant trunk
143	<i>Cladastria kentukea</i>	Yellowwood	20"	20'	88.75	Multistem
144	<i>Cornus florida</i>	Flowering Dogwood	5"	5'	68.75	Multistem
145	<i>Cornus kousa</i>	Kousa Dogwood	18"	18'	87.50	Multistem
146	<i>Lindera benzoin</i>	Spicebush	8' Ht.	4'	59.38	Multistem
147	<i>Acer palmatum</i>	Japanese Maple	11"	11'	46.88	Twisted trunk; co-dominant trunk; large basal cavity
148	<i>Acer saccharum</i>	Sugar Maple	51"	51'	15.63	Decay throughout; multistem; reduced canopy
149	<i>Prunus spp.</i>	Cherry	3"	3'	40.63	Multistem; decay in trunk
150	<i>Pyrus calleryana</i>	Callery Pear	13"	13'	43.75	Co-dominant; included bark
151	<i>Prunus spp.</i>	Cherry	4"	4'	59.38	
152	<i>Cydonia oblonga</i>	Quince Tree	3"	3'	71.88	
153	<i>Juniperus virginiana</i>	Eastern Red Cedar	3"	3'	68.75	
154	<i>Acer platanoides</i>	Norway Maple	33"	33'	56.25	Co-dominant trunk; some secondary branch decay

PLAN DATE 12/08/2023 01/22/2024		REVISIONS			
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TREE INVENTORY AND CONDITION ANALYSIS FREDERICK STREET SW PHASE II CONCEPT STUDY TOWN OF VIENNA FAIRFAX COUNTY, VIRGINIA DATE: DECEMBER, 2023 SCALE: 1" = 30' SHEET 6 OF 6 FILE No. PP-2593					