TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

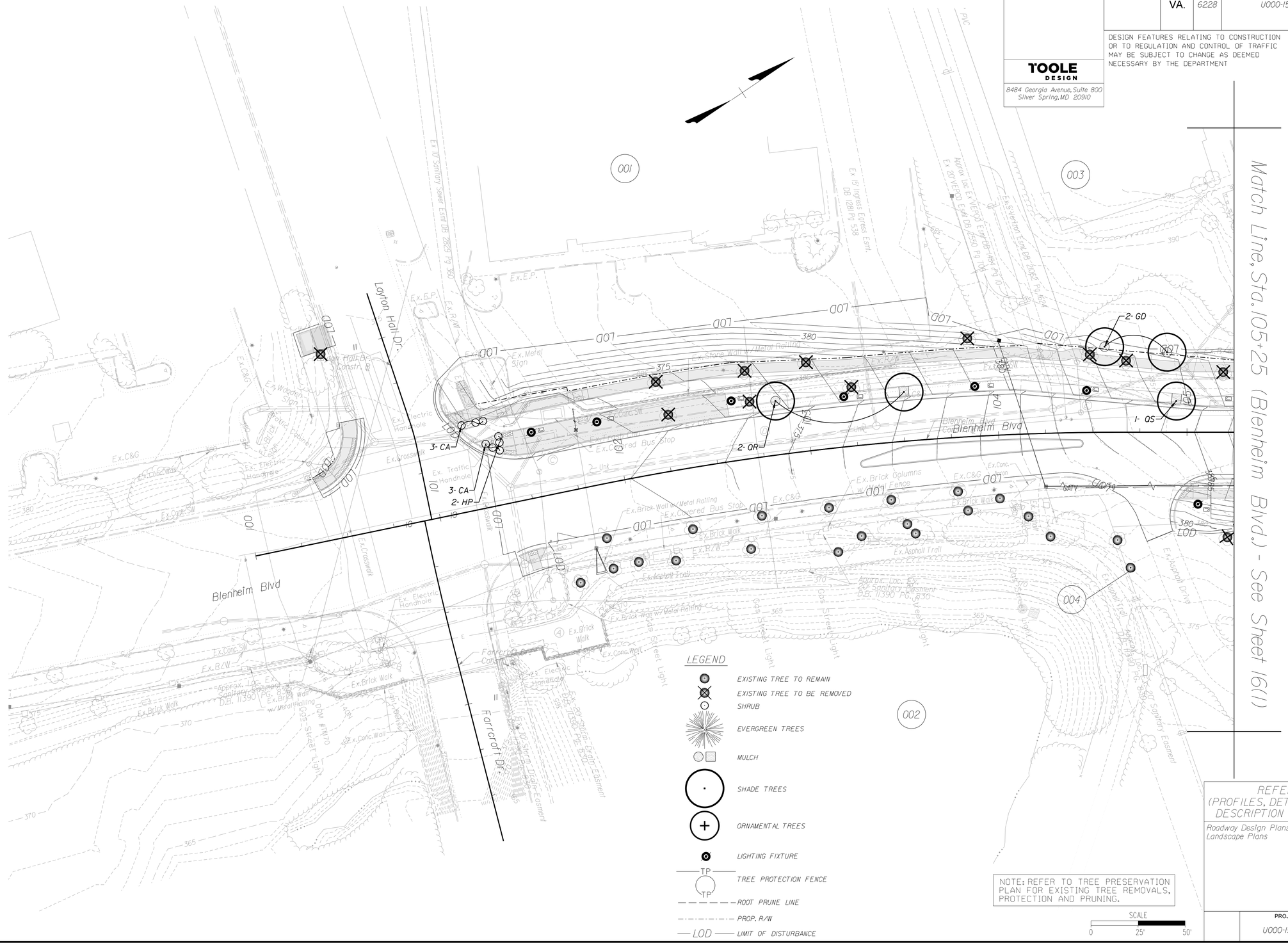
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/16/2025
5:00:00 PM

d107013_016(1).dgn
Plotted By: Tony Trefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SHRUB
- EVERGREEN TREES
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- LIGHTING FIXTURE
- TREE PROTECTION FENCE
- ROOT PRUNE LINE
- PROP. R/W
- LOD — LIMIT OF DISTURBANCE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(1)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

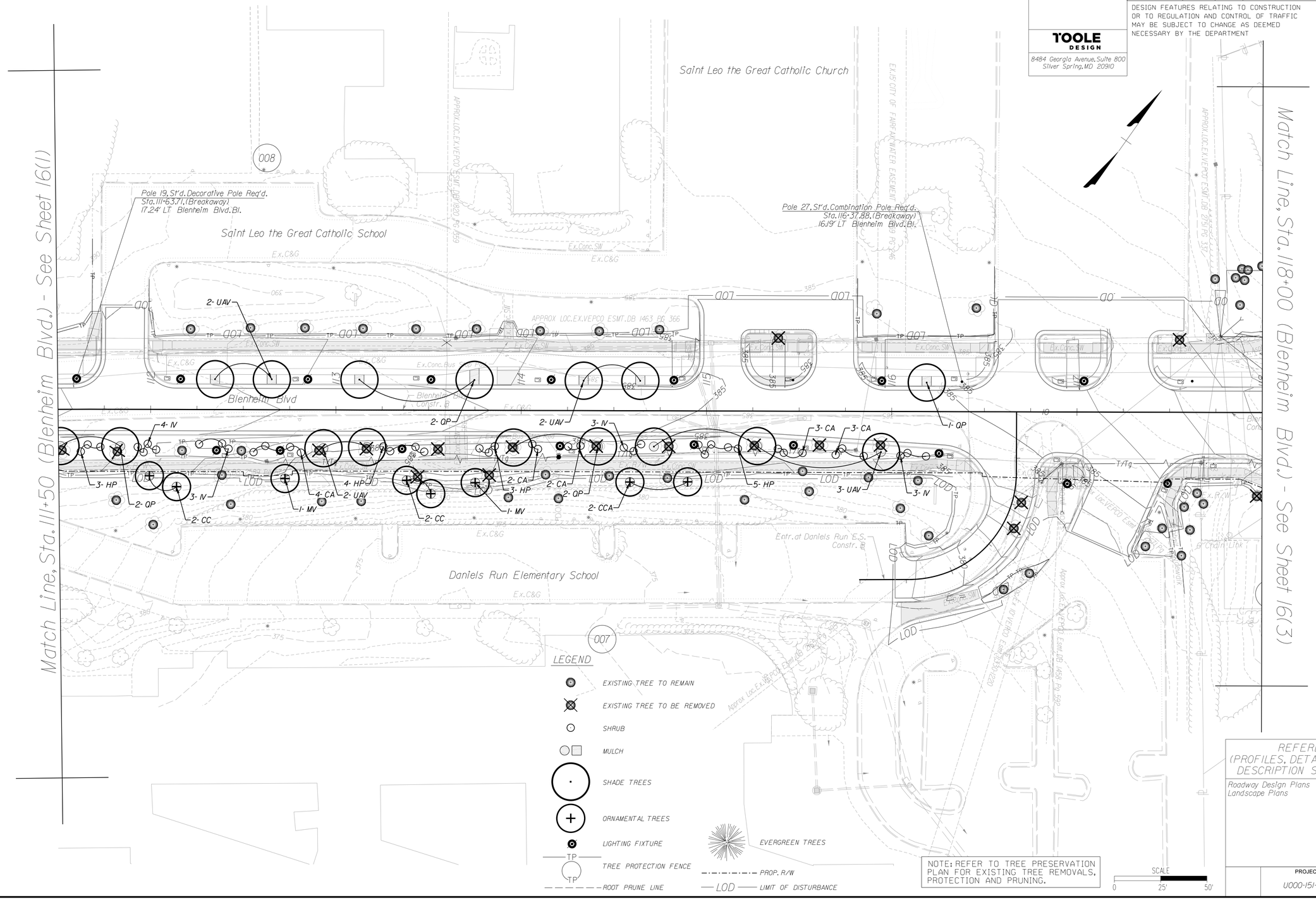
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(2)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/16/2025
5:01:19 PM

d1070131_016(3).dgn
Plotted By: Tony Trefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

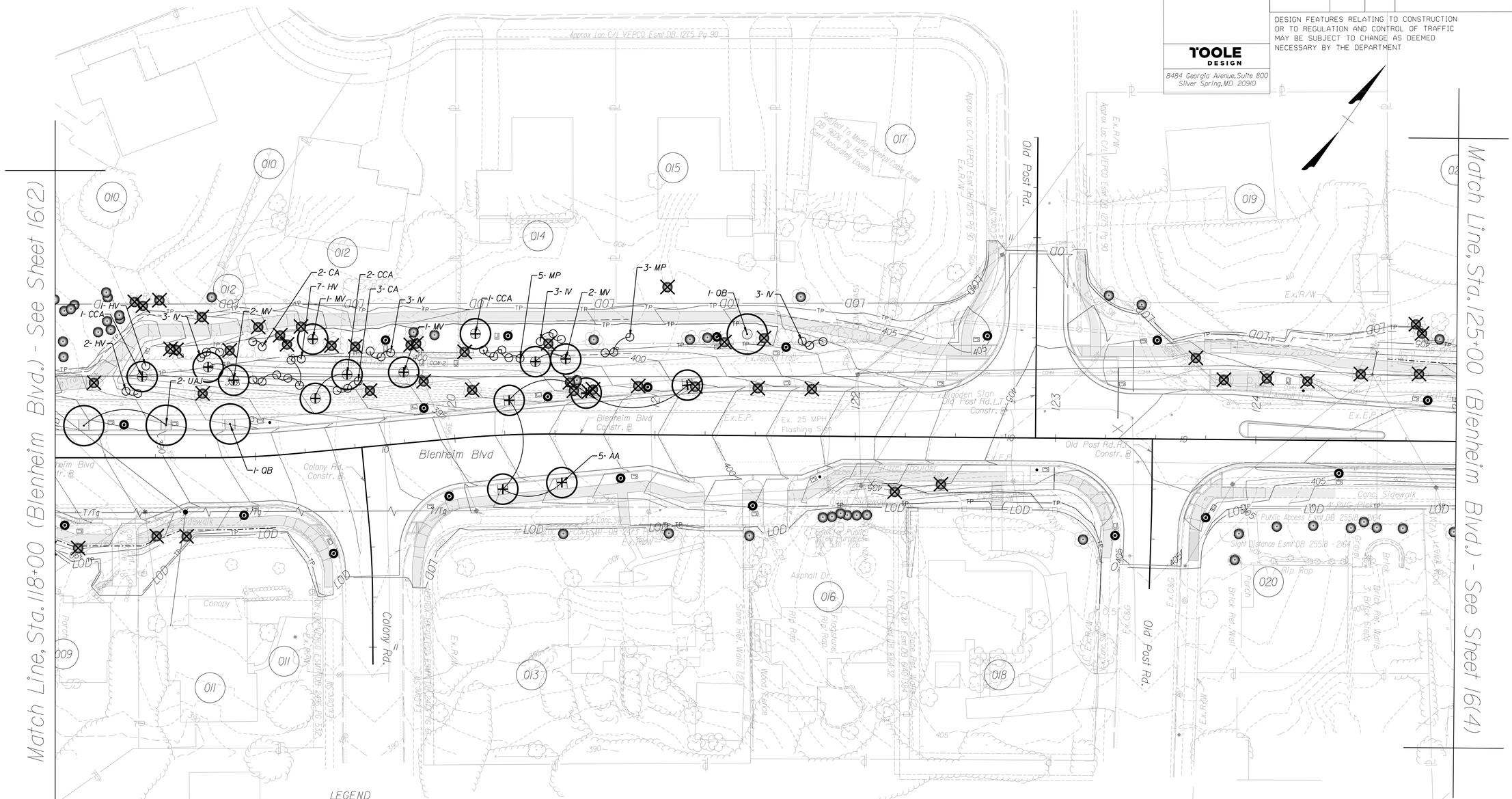
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

EVERGREEN TREES	EXISTING TREE TO REMAIN
MULCH	EXISTING TREE TO BE REMOVED
SHADE TREES	SHRUB
ORNAMENTAL TREES	TREE PROTECTION FENCE
LIGHTING FIXTURE	ROOT PRUNE LINE
	PROP. R/W
	LIMIT OF DISTURBANCE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(3)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/16/2025
5:02:27 PM

d107013_01(4).dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

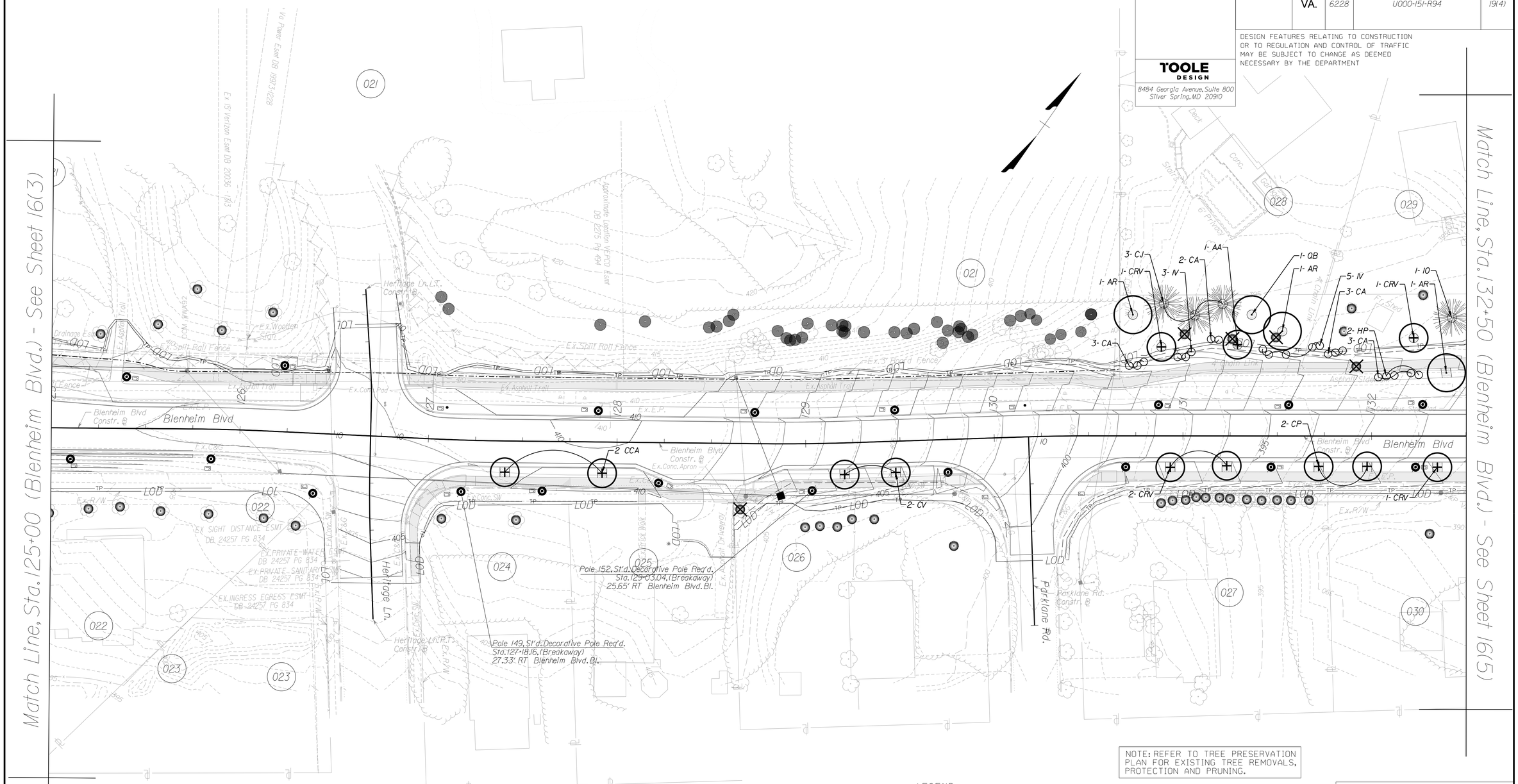
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- LIGHTING FIXTURE
- TREE PROTECTION FENCE
- ROOT PRUNE LINE
- PROP. R/W
- LOD — LIMIT OF DISTURBANCE
- SHRUB
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- EVERGREEN TREES

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(4)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

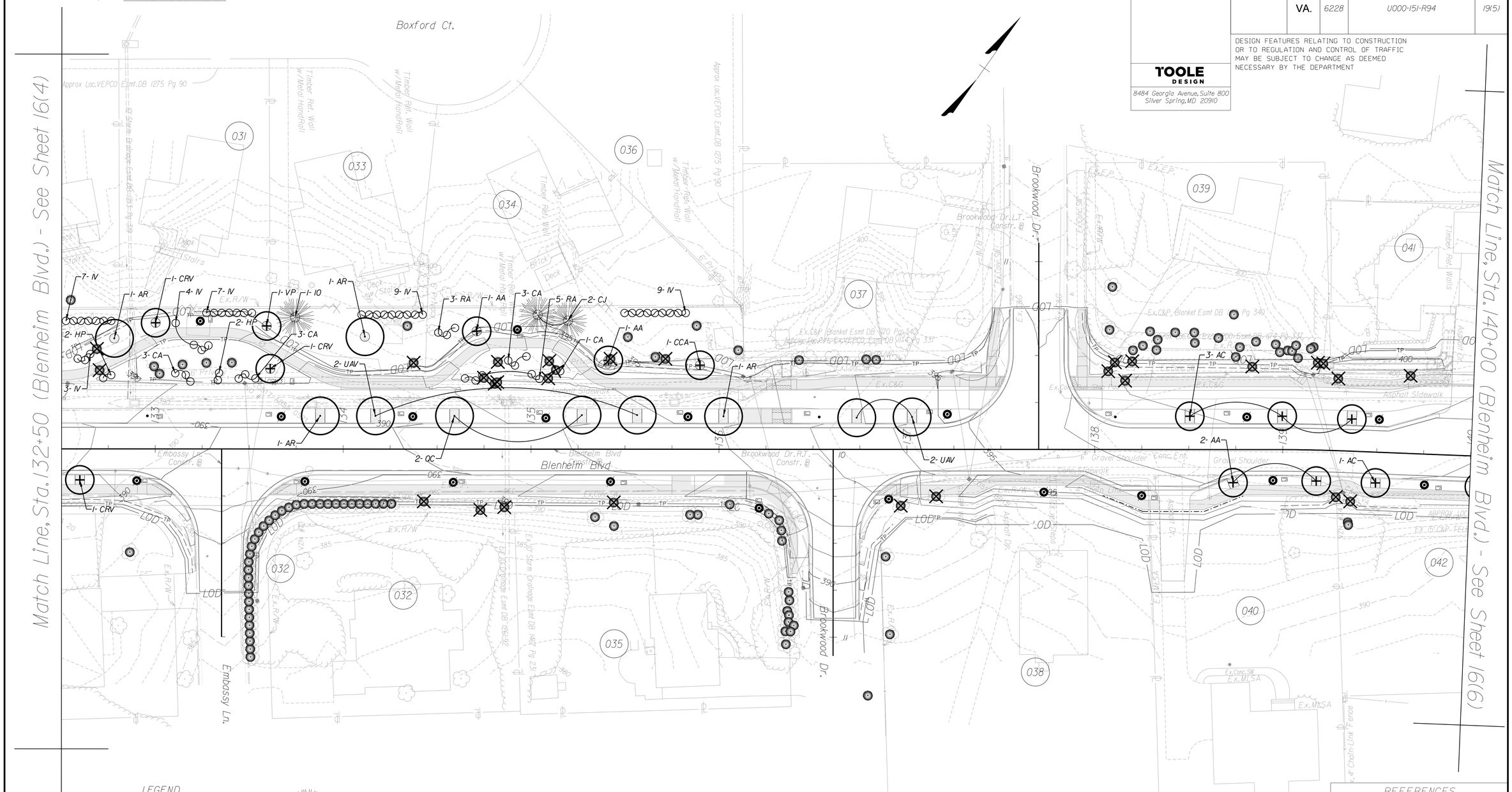
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- SHRUB
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- LIGHTING FIXTURE
- EVERGREEN TREES
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TP — TREE PROTECTION FENCE
- ROOT PRUNE LINE
- PROP. R/W
- LOD — LIMIT OF DISTURBANCE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(5)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/16/2025
5:04:35 PM

d107013_0l6(6).dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

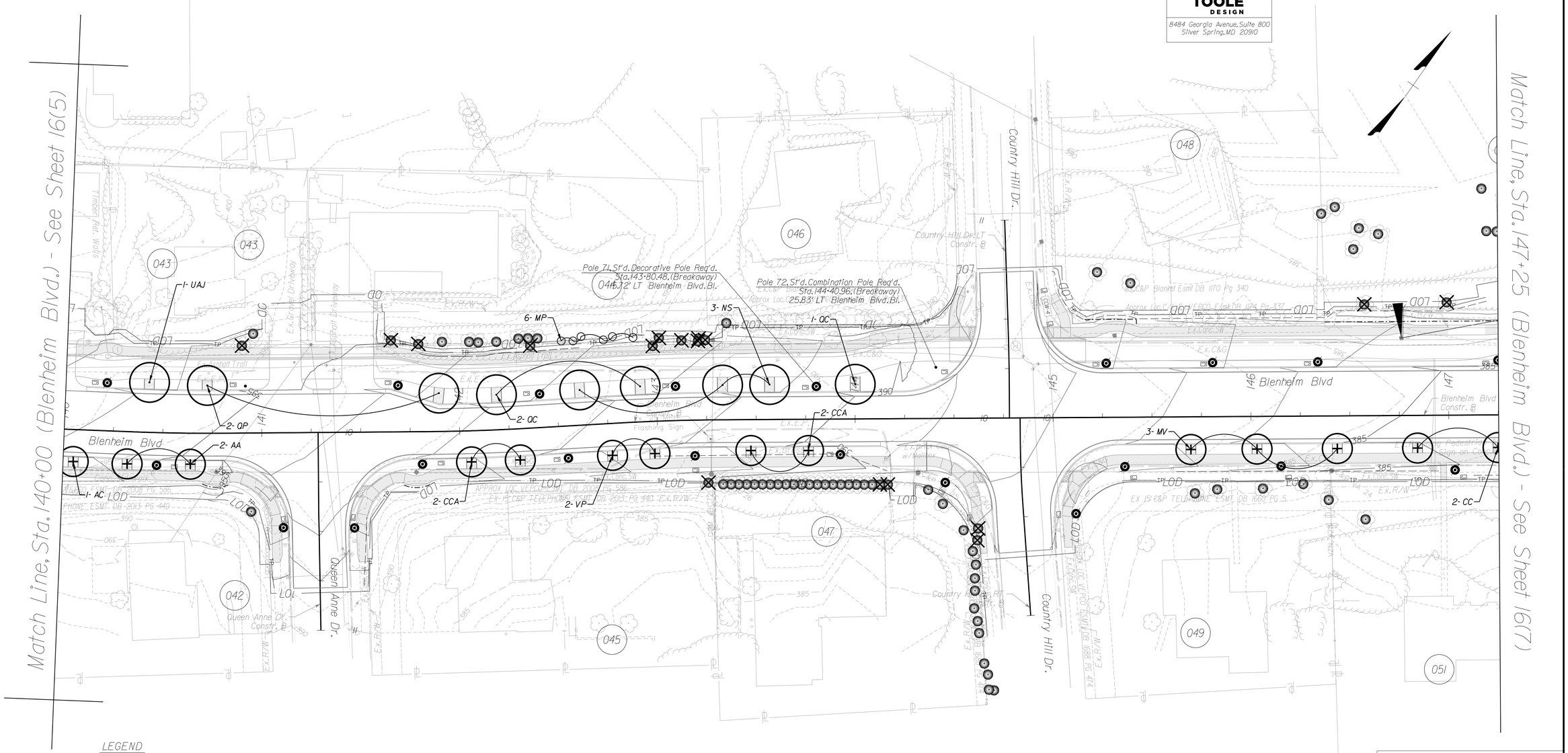
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- LIGHTING FIXTURE
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- EVERGREEN TREES
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SHRUB
- TP — TREE PROTECTION FENCE
- TP — ROOT PRUNE LINE
- PROP. R/W
- LOD — LIMIT OF DISTURBANCE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(6)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/16/2025
5:05:28 PM

d107013_0I6(7).dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

LEGEND

- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- EVERGREEN TREES
- LIGHTING FIXTURE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SHRUB
- TP — TREE PROTECTION FENCE
- ROOT PRUNE LINE
- PROP. R/W
- LOD — LIMIT OF DISTURBANCE

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(7)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

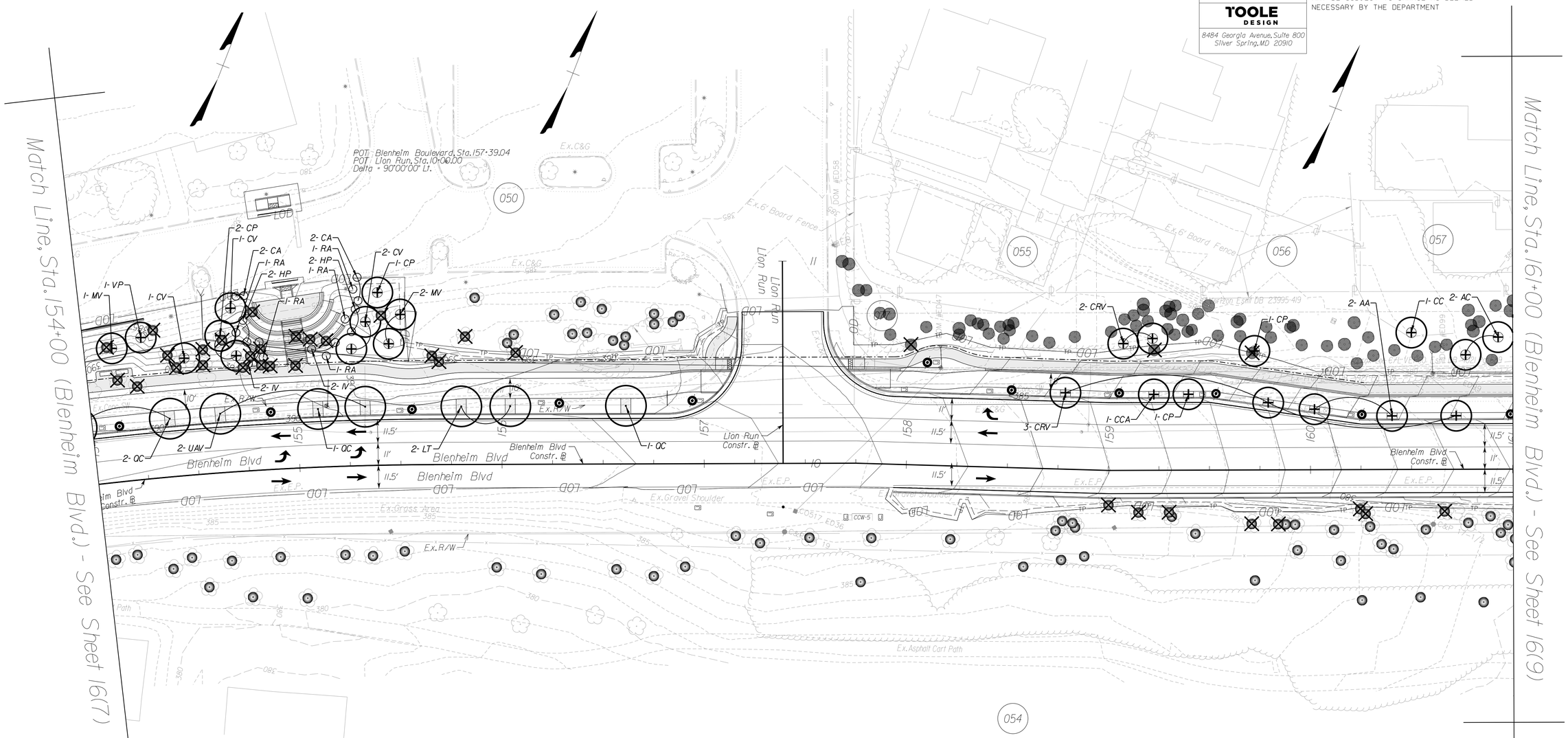
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

EVERGREEN TREES	EXISTING TREE TO REMAIN
MULCH	EXISTING TREE TO BE REMOVED
SHADE TREES	SHRUB
ORNAMENTAL TREES	TREE PROTECTION FENCE
LIGHTING FIXTURE	ROOT PRUNE LINE
	PROP. R/W
	LIMIT OF DISTURBANCE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(8)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

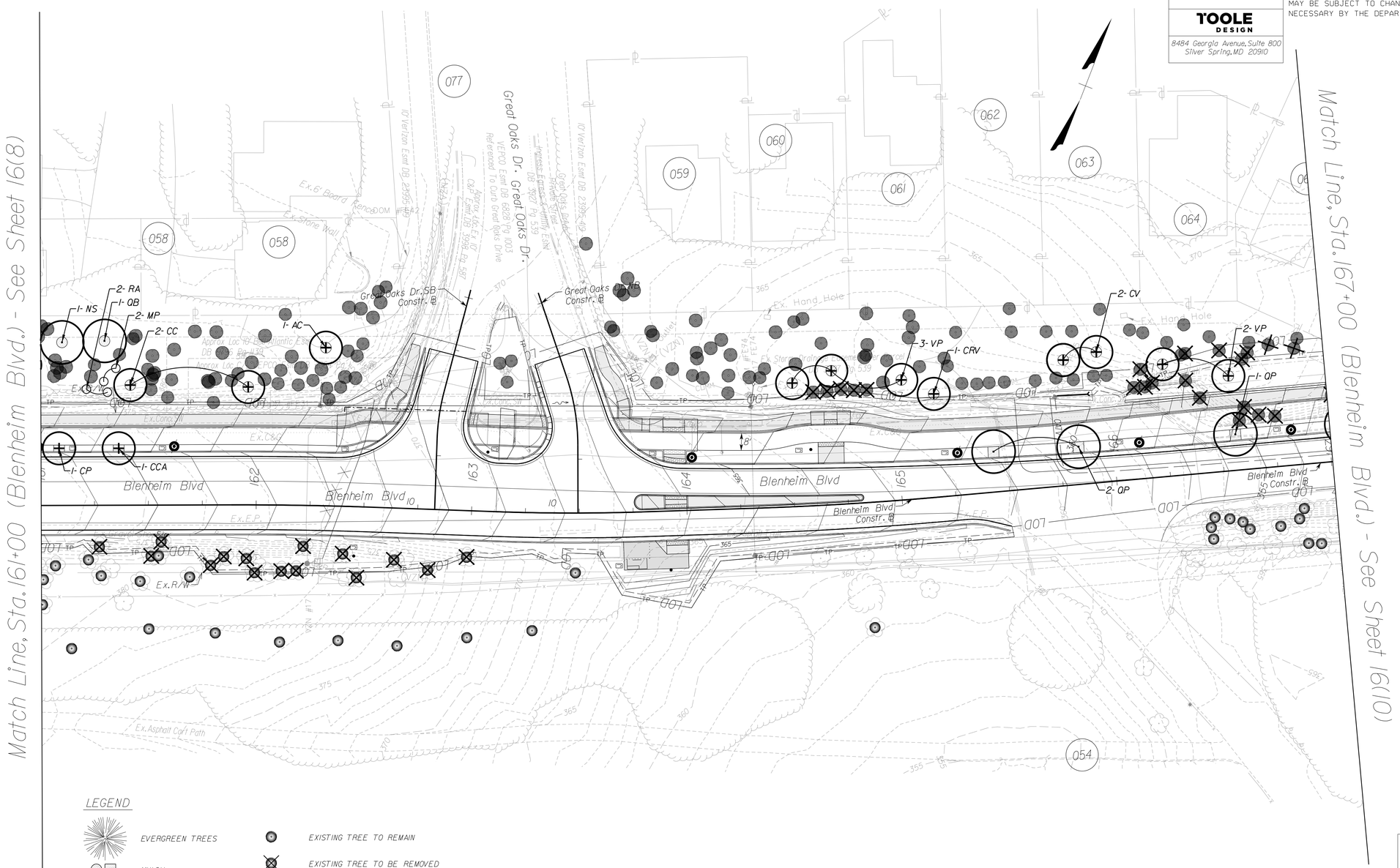
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

EVERGREEN TREES	EXISTING TREE TO REMAIN
MULCH	EXISTING TREE TO BE REMOVED
SHADE TREES	SHRUB
	TREE PROTECTION FENCE
ORNAMENTAL TREES	ROOT PRUNE LINE
	PROP. R/W
LIGHTING FIXTURE	LIMIT OF DISTURBANCE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(9)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

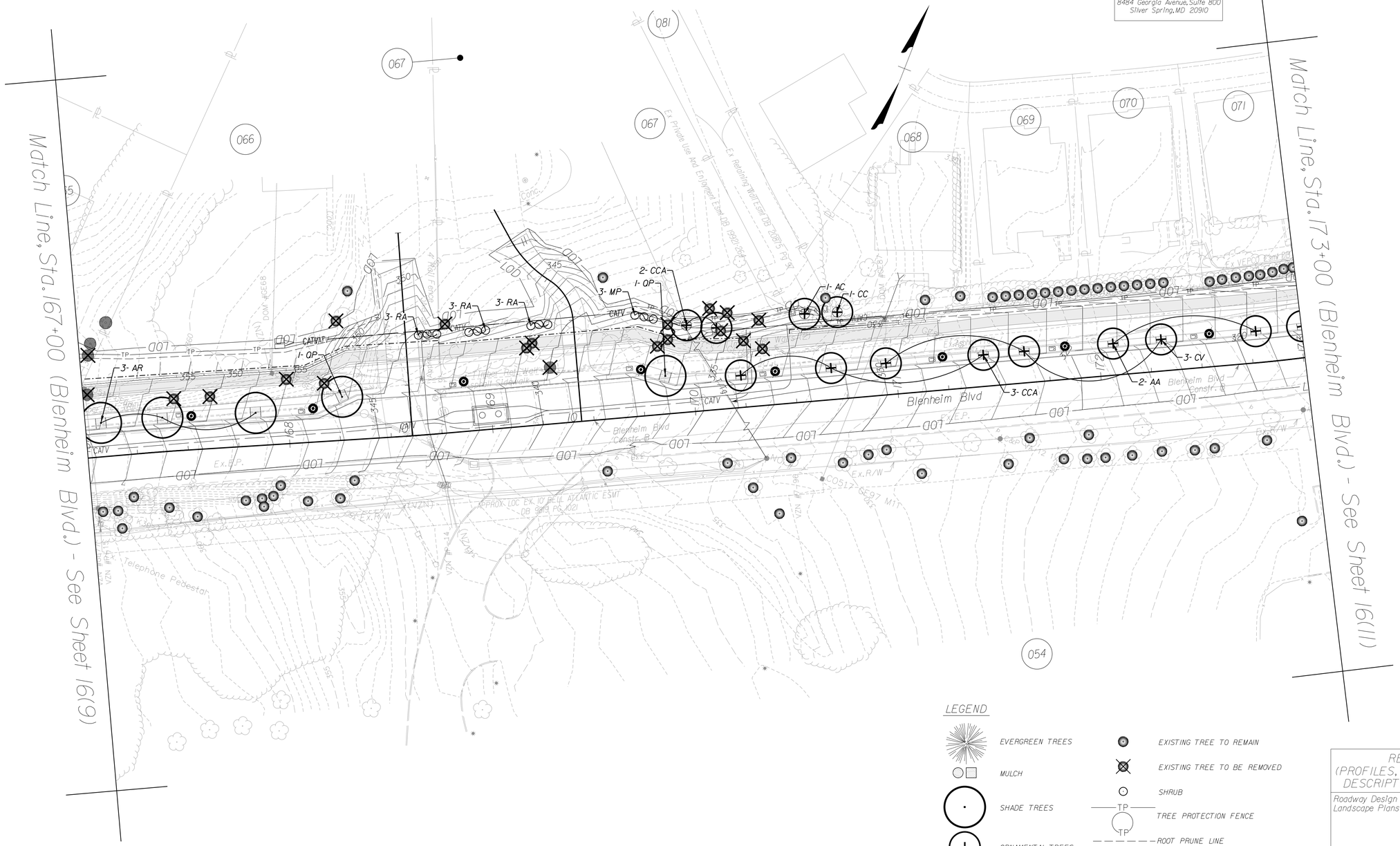
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- EVERGREEN TREES
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- LIGHTING FIXTURE
- PROP. R/W
- LOD — LIMIT OF DISTURBANCE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SHRUB
- TP — TREE PROTECTION FENCE
- ROOT PRUNE LINE

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(10)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/16/2025
5:09:10 PM

d107013_0161(11).dgn
Plotted By: TonyTrefzger

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

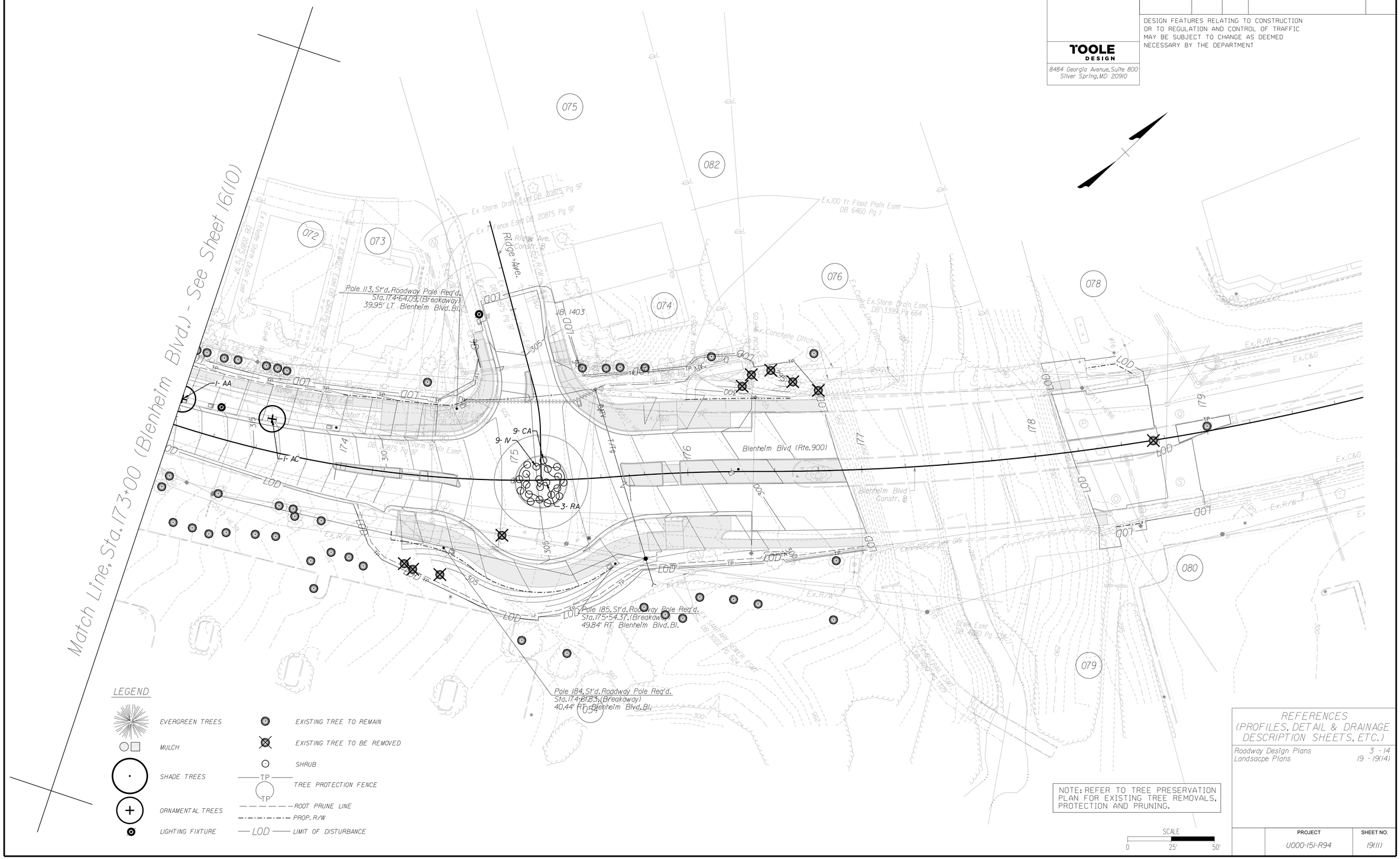
LANDSCAPE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(11)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com



NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landsacpe Plans	19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(11)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE DETAIL SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(12)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

PLANTING SCHEDULE

CANOPY TREES - LARGE

Symbol	QTY	Botanical Name	Common Name	Caliper	(O.C.) Spacing	Remarks
AR	11	*Acer rubrum 'Sun Valley'*	Red Maple 'Sun Valley'	3.5-4" Cal. B&B	As Shown	
GD	4	*Gymnocladus dioicus*	Kentucky Coffeetree	3.5-4" Cal. B&B	As Shown	
LT	7	*Liriodendron tulipifera*	Tulip Tree	3.5-4" cal. B&B	As Shown	
NS	6	*Nyssa sylvatica*	Black Tupelo	4-4.5" Cal. B&B	As Shown	
QB	4	*Quercus bicolor*	Swamp White Oak	4-4.5" Cal. B&B	As Shown	
QC	12	*Quercus coccinea*	Scarlet Oak	4-4.5" Cal. B&B	As Shown	
QP	14	*Quercus phellos*	Willow Oak	4-4.5" Cal. B&B	As Shown	
QR	2	*Quercus rubra*	Northern Red Oak	4-4.5" Cal. B&B	As Shown	
QS	1	*Quercus shumardii*	Shumard Oak	4-4.5" Cal. B&B	As Shown	
UAJ	3	*Ulmus americana 'Jefferson'*	American Elm 'Jefferson'	3.5-4" Cal. B&B	As Shown	
UAV	18	*Ulmus americana 'Valley Forge'*	American Elm 'Valley Forge'	3.5-4" Cal. B&B	As Shown	

ORNAMENTAL TREES - SMALL

Symbol	QTY	Botanical Name	Common Name	Size/Type	(O.C.) Spacing	Remarks
AA	17	*Amelanchier arborea*	Downy Serviceberry	#20 Cont.	As Shown	Singlestem
AC	12	*Amelanchier canadensis*	Shadblow Serviceberry	#20 Cont.	As Shown	Singlestem
CC	15	*Carpinus caroliniana*	American Hornbeam	#20 Cont.	As Shown	Singlestem
CCA	22	*Cercis canadensis*	Eastern Redbud	2.5-3" Cal. B&B	As Shown	Singlestem
CV	16	*Chionanthus virginicus*	White Fringetree	8-10' B&B	As Shown	Singlestem
CP	10	*Crataegus phaenopyrum*	Washington Hawthorn	2-2.5" Cal. B&B	As Shown	Singlestem
CRV	15	*Crataegus viridis 'Winter King'*	Green Hawthorn	2-2.5" Cal. B&B	As Shown	Singlestem
MV	21	*Magnolia virginiana 'Henry Hicks'*	Sweetbay Magnolia 'Henry Hicks'	#20 Cont.	As Shown	Singlestem
VP	14	*Viburnum prunifolium*	Blackhaw Viburnum	2-2.5" Cal. B&B	As Shown	Singlestem

EVERGREEN TREES

Symbol	QTY	*Botanical Name*	Common Name	Size/Type	(O.C.) Spacing	Remarks
CJ	5	*Crytpomeria japonica*	Japanese Cedar	8-10' Ht. B&B	As Shown	
IO	2	*Ilex opaca*	American Holly	8-10' Ht. B&B	AS Shown	

SHRUBS, PERENNIALS

Symbol	QTY	Botanical Name	Common Name	Size/Type	(O.C.) Spacing	Remarks
CA	74	*Ceanothus americanus*	New Jersey Tea	#10 Cont.	As Shown	
HV	12	*Hamamelis virginana*	Witch Hazel	#10 Cont.	As Shown	
HP	45	*Hypericum prolificum*	Shrubby St. John's Wort	#10 Cont.	As Shown	
IV	89	*Itea virginica*	Virginia Sweetspire	#10 Cont.	As Shown	
MP	23	*Myrica pensylvanica*	Northern Bayberry	#10 Cont.	As Shown	
RA	31	*Rhus aromatica*	Fragrant Sumac	#10 Cont.	As Shown	

LAWN

Symbol	QTY (ACRES)	Botanical Name	Common Name	Size/Type	(O.C.) Spacing	Remarks
All Disturbed Areas	3.30		Fine Fescue, Rye Grass, Bluegrass Mix	NA	NA	

ALL TREES SHALL BE NATIVE TO VIRGINIA. NO SUBSTITUTES ARE ALLOWED WITHOUT PREAPPROVAL FROM THE PROFESSIONAL LANDSCAPE ARCHITECT.

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
City of Fairfax -
Landscape Plans 19 - 19(14)

PROJECT	SHEET NO.
U000-151-R94	19(12)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

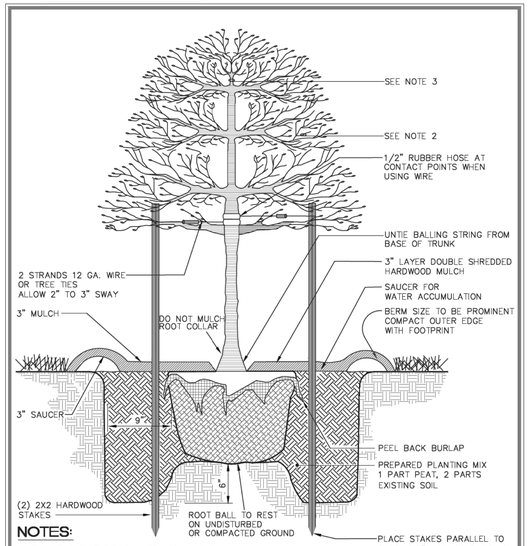
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE DETAIL SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(13)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

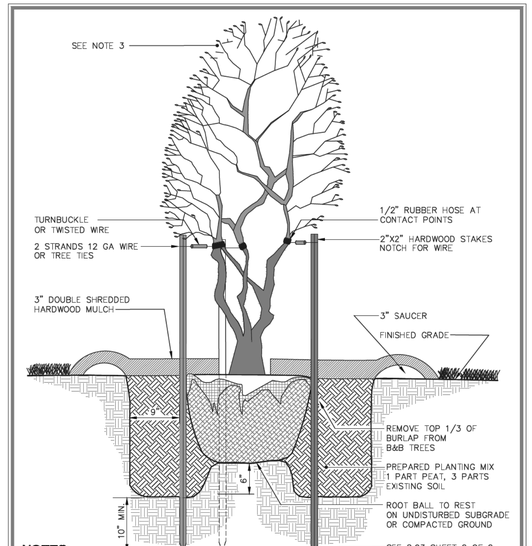


NOTES:
1. See Detail 8.08 for Planting Notes.
2. Prune only to remove dead or damaged branches. Raising branches is to be performed when approved to provide clearances for pedestrians.
3. Never prune the leader.
4. Remove non-decomposing material from root ball.
5. Remove stakes and wire at end of warranty period or at end of one growing season as approved.

Department of Public Works, 10455 Armstrong Street, Fairfax, VA 22030-3630 — CITY of FAIRFAX — USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY — Voice (703) 385-7810, FAX (703) 591-5727, www.fairfaxva.gov

SINGLE-STEM TREE PLANTING UPRIGHT STAKING DETAIL | SCALE: Not To Scale | DETAIL # 8.01 | REVISION DATE: December 2016 | SHEET # 1 of 1

DETAIL 1: SINGLE STEM TREE PLANTING-1



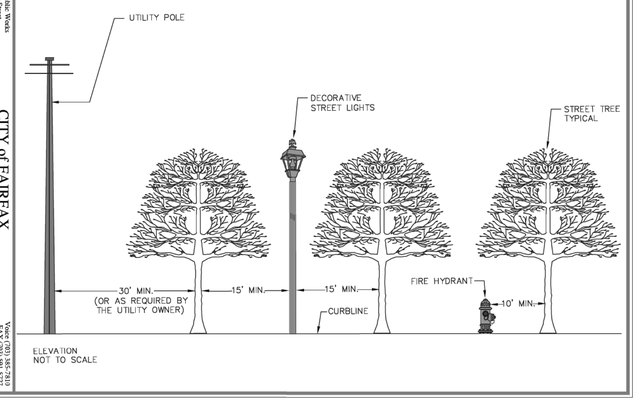
NOTES:
1. See Detail 8.08 for Planting Notes.
2. Prune only to remove dead or damaged branches. Raising of branches is to be performed when approved to provide clearances for pedestrians.
3. Never prune the leader.
4. Remove non-decomposing material from root ball.
5. Remove stakes and wire at end of warranty period or at end of one growing season as approved.

Department of Public Works, 10455 Armstrong Street, Fairfax, VA 22030-3630 — CITY of FAIRFAX — USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY — Voice (703) 385-7810, FAX (703) 591-5727, www.fairfaxva.gov

MULTI-STEM TREE PLANTING and STAKING DETAIL | SCALE: Not To Scale | DETAIL # 8.03 | REVISION DATE: December 2016 | SHEET # 1 of 2

DETAIL 2: MULTI-STEM TREE PLANTING-1

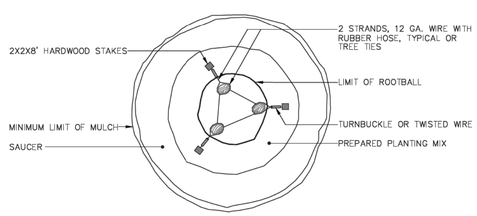
NOTES:
1. See Sheet 1 of 2 for Section View.
2. Do not place conduit within tree planting area (between utility strip and sidewalk).
3. Groundcover shall not exceed 18" mature height.



Department of Public Works, 10455 Armstrong Street, Fairfax, VA 22030-3630 — CITY of FAIRFAX — USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY — Voice (703) 385-7810, FAX (703) 591-5727, www.fairfaxva.gov

LANDSCAPE BUFFER DETAIL | SCALE: Not To Scale | DETAIL # 8.04 | REVISION DATE: December 2016 | SHEET # 1 of 2

DETAIL 5: LANDSCAPE BUFFER-2



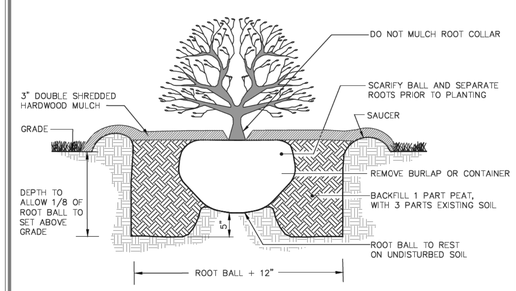
PLAN

NOTES:
1. See Detail 8.08 for Planting Notes.
2. Remove all tree guys and straps after one growing season.
3. See Detail 8.03 for Section View.

Department of Public Works, 10455 Armstrong Street, Fairfax, VA 22030-3630 — CITY of FAIRFAX — USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY — Voice (703) 385-7810, FAX (703) 591-5727, www.fairfaxva.gov

MULTI-STEM TREE PLANTING and STAKING DETAIL | SCALE: Not To Scale | DETAIL # 8.03 | REVISION DATE: December 2016 | SHEET # 2 of 2

DETAIL 3: MULTI-STEM TREE PLANTING-2



NOTES:
1. See Detail 8.08 for Planting Notes.
2. For shrub mass planting rototill the entire bed to 6" minimum depth. Individual shrub pits shall be excavated thereafter.

Department of Public Works, 10455 Armstrong Street, Fairfax, VA 22030-3630 — CITY of FAIRFAX — USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY — Voice (703) 385-7810, FAX (703) 591-5727, www.fairfaxva.gov

SHRUB DETAIL CONTAINER AND B&B | SCALE: Not To Scale | DETAIL # 8.05 | REVISION DATE: December 2016 | SHEET # 1 of 1

DETAIL 4: SHRUB DETAIL CONTAINER AND B&B

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

City of Fairfax -

Single-Stem Tree Planting Detail-1	1
Multi-Stem Tree Planting Detail-1	1
Multi-Stem Tree Planting Detail-2	1
Shrub Detail	1
Landscape Buffer-2	1

PROJECT	SHEET NO.
U000-151-R94	19(13)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

LANDSCAPE DETAIL SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	19(14)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

I. General

1. Landscape Specifications: Landscape specifications shall be as outlined below. Any item or procedure not mentioned below shall be as specified in the Landscape specification guidelines published by the Landscape Contractors Association (latest edition).
2. Plant Materials: The Landscape Contractor shall furnish and install and/or dig, ball, burlap, and transplant plant materials called for on the drawings and/or listed in the plant schedule. The City reserves the right to inspect plant material at the nursery source, before off-loading at the project site, when in storage or prior to installation.
3. Plant Names: Plant names used in the plant schedule shall be identified in accordance with Hortus Third, by L.H. Bailey, 1976.
4. Plant Standards: Plant materials shall be equal to or better than the requirements of the "American Standard for Nursery Stock" (ANSI Z60.1 latest edition), as published by the American Association of Nurserymen (hereinafter referred to as AAN standards). Plants shall be typical of their species and variety, shall have a normal habit of growth, and shall be first quality, sound, vigorous, well branched, and with healthy, well-furnished root systems. They shall be free of disease, insect pests, and mechanical injuries.
   (A) Plants shall be nursery grown and shall have been grown under the same climatic conditions as the location of the subject project for at least two years before planting. Neither heeled-in plant, nor plants from cold storage will be accepted.
   (B) Collected plants or transplanted trees when specified by the landscape architect may be used, provided that locations and soil conditions will permit proper balling.
5. Materials for Planting:
   (A) Stakes for guying trees shall be sound oak or other approved hardwood. Three stakes spread 120-degrees apart shall be used when detailed. Notch stakes for wire. See details. Trees located between sidewalk and curb shall have two stakes.
   (B) Tree Guys: Provide wire ties and guys of 2-strand, twisted, pliable galvanized steel wire not lighter than 12-gauge with zinc coated turnbuckles. Provide w-ply garden hose not less than 0.5-inch hose size, cut to lengths to protect tree trunks from damage by wires. Provide 14-gauge wire for trees less than 12-ft. height. Wire for guy may be twisted when a turnbuckle is not specified by the landscape architect. Use of tree ties in lieu of wire is acceptable.
   (C) Mulching: Mulch shall consist of double shredded hardwood mulch.
6. Planting Schedule: A professional horticulturist/nurseryman shall be consulted to determine the proper time, based on plant species and weather conditions, to move and install plant materials to minimize stress to the plant. Planting of deciduous material may be continued during the winter months provided there is no frost on the ground and frost-free soil planting mixtures are used.

Department of Public Works
10455 Armstrong Street
Fairfax, VA 22030-3630

CITY of FAIRFAX
USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY

Voice (703) 385-7810
FAX (703) 591-5727
www.fairfaxva.gov

PLANTING NOTES DETAIL

SCALE: Not To Scale | DETAIL # 8.08
REVISION DATE: December 2016 | SHEET # 1 of 3

DETAIL 6: PLANTING NOTES-1

II. Planting Execution

1. Excavation of Plant Pits
   (A) Circular Pits, with vertical sides shall be excavated for all plants. In heavy soils, slope the sides outward. The diameter of the holes shall be 18-inches greater than the diameter of the ball for trees, or 1.5 times the diameter of shrubs and container grown material.
   (B) The depth of pits shall allow for one-eighth of the tree root ball or container depth to be above existing grade.
   (C) Obstructions encountered in excavated or planted areas shall be removed or plants relocated as approved.
   (D) Plants shall be planted plumb, at slightly above grade as in the nursery (in relation to finished grade); tamp topsoil under and around base of ball to fill all voids. Remove all burlap, ropes, plastic or synthetic twine or film, and wires from sides and tops of balls, but do not remove burlap from under ball. Thoroughly water when hole is two-thirds full of topsoil. Mix soil amendments thoroughly with soil mixture. Backfill pit halfway and tamp as pit is filled. Do not over compact remainder of backfill. After watering, 3" of mulch shall be applied over a 3" earth berm to create a shallow watering basin around the tree.
   (E) Shrubs shall be planted in conformance with deciduous shrub planting Detail 8.05.

III. Staking and Guying

1. Each tree or evergreen shall be immediately staked or guyed after planting.
   (A) Deciduous trees 2-2.5" caliper or larger and all evergreen trees shall be staked and guyed with three 2" x 2" x 6' hardwood stakes per tree, spread 120-degrees apart. Hardwood stakes shall be driven no less than 10-inches below subgrade and outside the root ball. A double strand of 12-gauge galvanized wire shall be twisted and threaded through 0.5-inch garden hose to protect the tree trunk and secured to the hardwood stake. Notch stakes for wire.
   (B) The 12-gauge galvanized wire shall be placed at a 45-degree angle from the tree to the stake. See Detail 8.04.

IV. Plant Pruning, Edging, and Mulching

1. Pruning shall be by experienced landscape personnel. Remove broken or damaged branches and roots. Cut back and thin deciduous material to retain two-thirds of the initial branches. Cut back evergreens to give compact uniform appearance. Damaged or pruned tree leaders shall be cause for rejection. Do not cut leaders.
2. If foliage is present on deciduous plant material, they shall be sprayed with an anti-desiccant, which slows down the transpiration process, through reducing the danger of dehydration.
3. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit.
4. After cultivation, plant material shall be mulched with a three-inch layer of double shredded mulch over the entire area of the bed or saucer.

Department of Public Works
10455 Armstrong Street
Fairfax, VA 22030-3630

CITY of FAIRFAX
USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY

Voice (703) 385-7810
FAX (703) 591-5727
www.fairfaxva.gov

PLANTING NOTES DETAIL

SCALE: Not To Scale | DETAIL # 8.08
REVISION DATE: December 2016 | SHEET # 2 of 3

DETAIL 7: PLANTING NOTES-2

II. Warranty:

Plant material shall have a one-year warranty commencing on the date of initial acceptance. Plant material shall be alive and in satisfactory condition at the end of the warranty period. Plant material will be considered dead if 25% or more of the material is found to be dead. Trees with a leader that has died will be considered dead. Trees with 25% or more crown found to be dead will also be considered dead.
   (A) Dead plants shall be replaced in the next planting period or as approved.
   (B) Replacements shall be of same type and size of specie originally specified or as approved.
   (C) The warranty shall be for a one-time only replacement.
   (D) Contractor will not be responsible for vandalism or losses due to abnormal weather conditions.

Department of Public Works
10455 Armstrong Street
Fairfax, VA 22030-3630

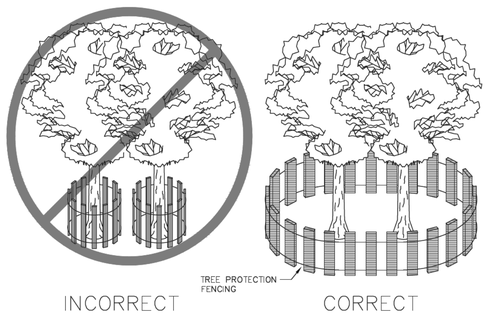
CITY of FAIRFAX
USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY

Voice (703) 385-7810
FAX (703) 591-5727
www.fairfaxva.gov

PLANTING NOTES DETAIL

SCALE: Not To Scale | DETAIL # 8.08
REVISION DATE: December 2016 | SHEET # 3 of 3

DETAIL 8: PLANTING NOTES-3



BARRIER INSTALLED AT THE DRIP LINE OF TREE BRANCHES

NOTES:

1. Precautions shall be taken to prevent and minimize damage to trees. In such cases repair any damage to crown, trunk or root system immediately.
   A. Repair roots by cleanly cutting off the damaged areas. Spread peat moss or moist topsoil over exposed roots.
   B. Repair damage to bark by trimming around the damaged area as shown in Detail 8.10. Taper the cut to provide drainage.
   C. Cut off damaged tree limbs above the tree collar at the trunk or main branch. Use three separate cuts as shown in Detail 8.10 to avoid peeling bark from healthy areas of tree.

Department of Public Works
10455 Armstrong Street
Fairfax, VA 22030-3630

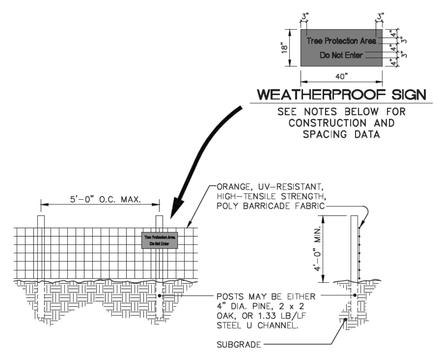
CITY of FAIRFAX
USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY

Voice (703) 385-7810
FAX (703) 591-5727
www.fairfaxva.gov

STANDARD TREE PROTECTION DETAIL

SCALE: Not To Scale | DETAIL # 8.09
REVISION DATE: December 2016 | SHEET # 1 of 2

DETAIL 9: STANDARD TREE PROTECTION-1



NOTES:

1. Install tree protection fence and signage prior to calling for the initial on site inspection by the City of Fairfax inspector.
2. Warning signs shall be made of durable, weatherproof material.
3. Letters shall be 3" high minimum, clearly legible and spaced as detailed.
4. Signs shall be placed no greater than 75' on center or as approved.
5. For tree protection areas less than 200' in perimeter, provide no less than three signs per protected area.
6. Attach signs securely to fence posts and fabric.
7. Maintain tree protection fence throughout duration of project.
8. Additional signs may be required by City of Fairfax inspections based on actual field conditions.
9. No activity shall occur within the protected area including material storage, stockpiling, parking or any activity that may compact the ground or damage the trees.
10. The City reserves the right to require a 4' to 6' height chain link fencing for identified trees, such as specimen or champion trees, to maximize the protection of the tree and its critical root zone.

Department of Public Works
10455 Armstrong Street
Fairfax, VA 22030-3630

CITY of FAIRFAX
USE WITH THE FAIRFAX STANDARD SPECIFICATIONS ONLY

Voice (703) 385-7810
FAX (703) 591-5727
www.fairfaxva.gov

STANDARD TREE PROTECTION DETAIL

SCALE: Not To Scale | DETAIL # 8.09
REVISION DATE: December 2016 | SHEET # 2 of 2

DETAIL 10: STANDARD TREE PROTECTION-2

NOTE: REFER TO TREE PRESERVATION PLAN FOR EXISTING TREE REMOVALS, PROTECTION AND PRUNING.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

City of Fairfax -

Planting Notes Detail 1 - 3
Standard Tree Protection Detail 1 - 2

PROJECT	SHEET NO.
U000-151-R94	19(14)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:02:12 PM

d1070113_016(211).dgn
Plotted By:TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

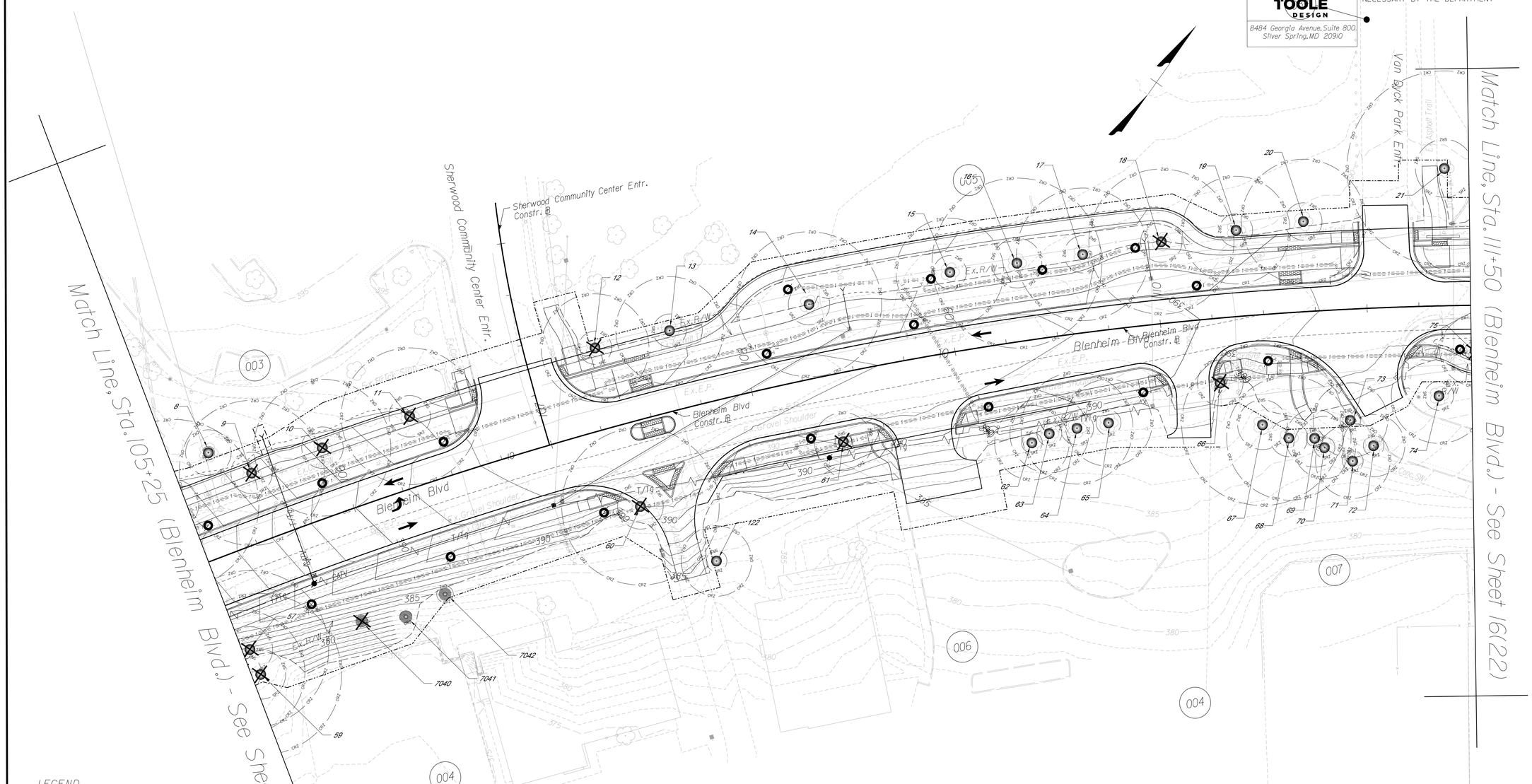
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(11)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ - CRITICAL ROOT ZONE
- SRZ - STRUCTURAL ROOT ZONE

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

SCALE
0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	20(1)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:02:39 PM

d10701_3_016(22).dgn
Plotted By: Tony Trefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

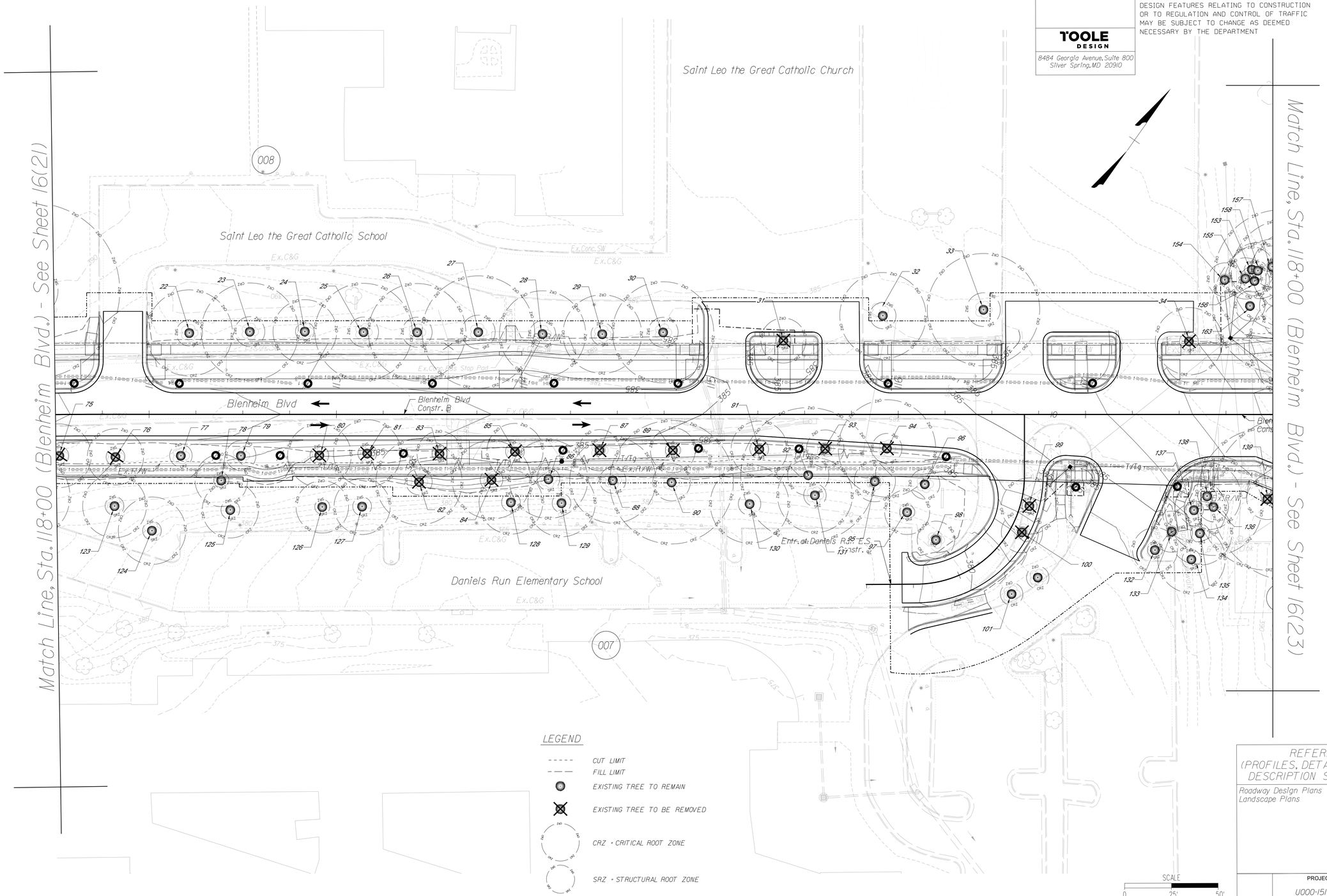
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(2)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:03:22 PM

d10701 3_016(23).dgn
Plotted By: Tony Trefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

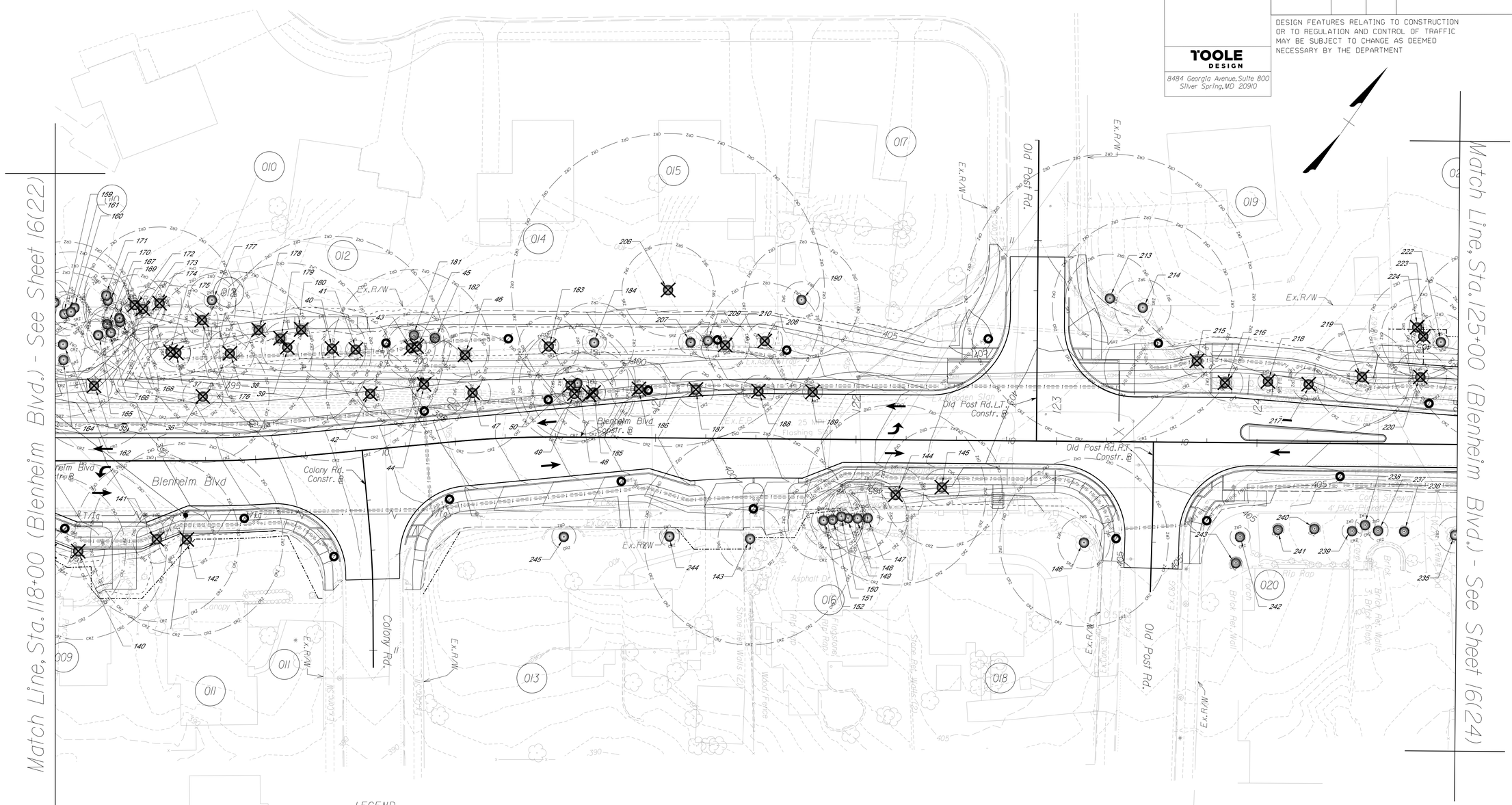
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

SCALE 0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(3)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:04:24 PM

d107013_016(24).dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

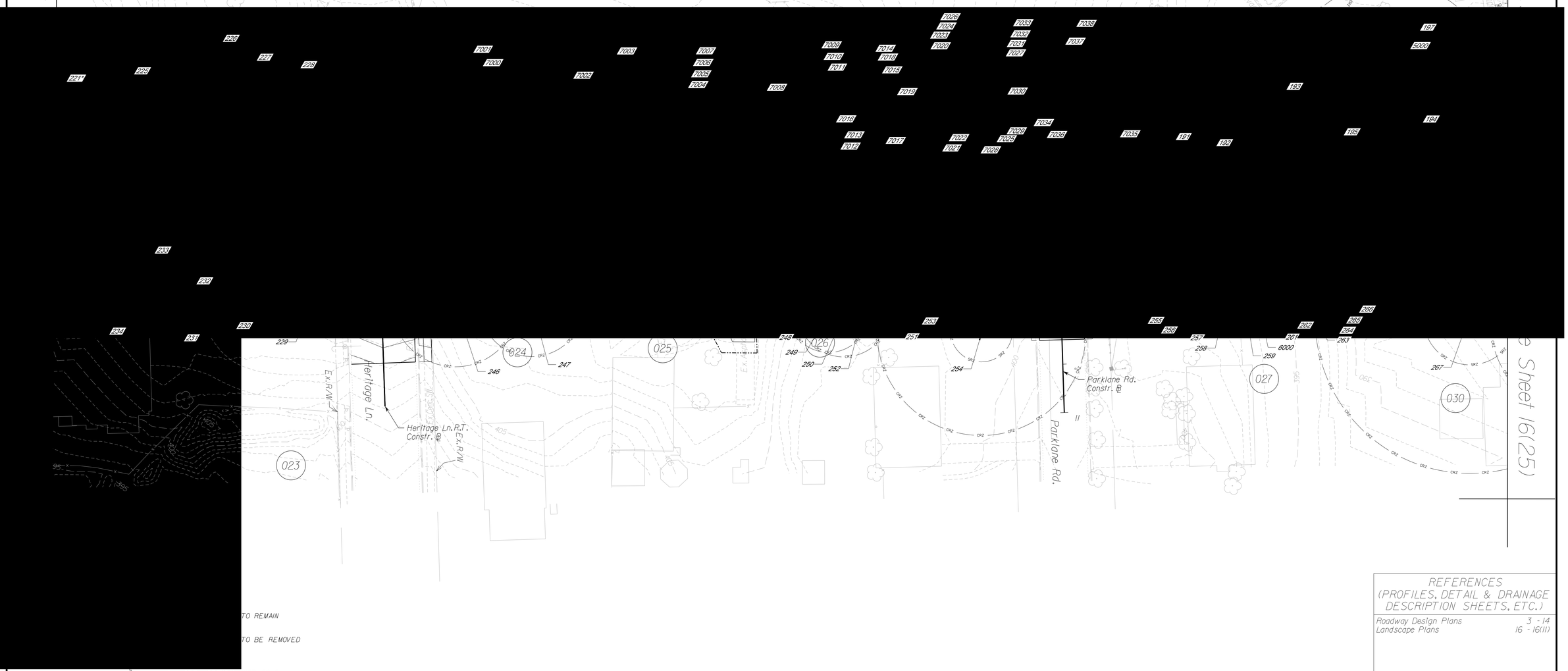
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(4)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

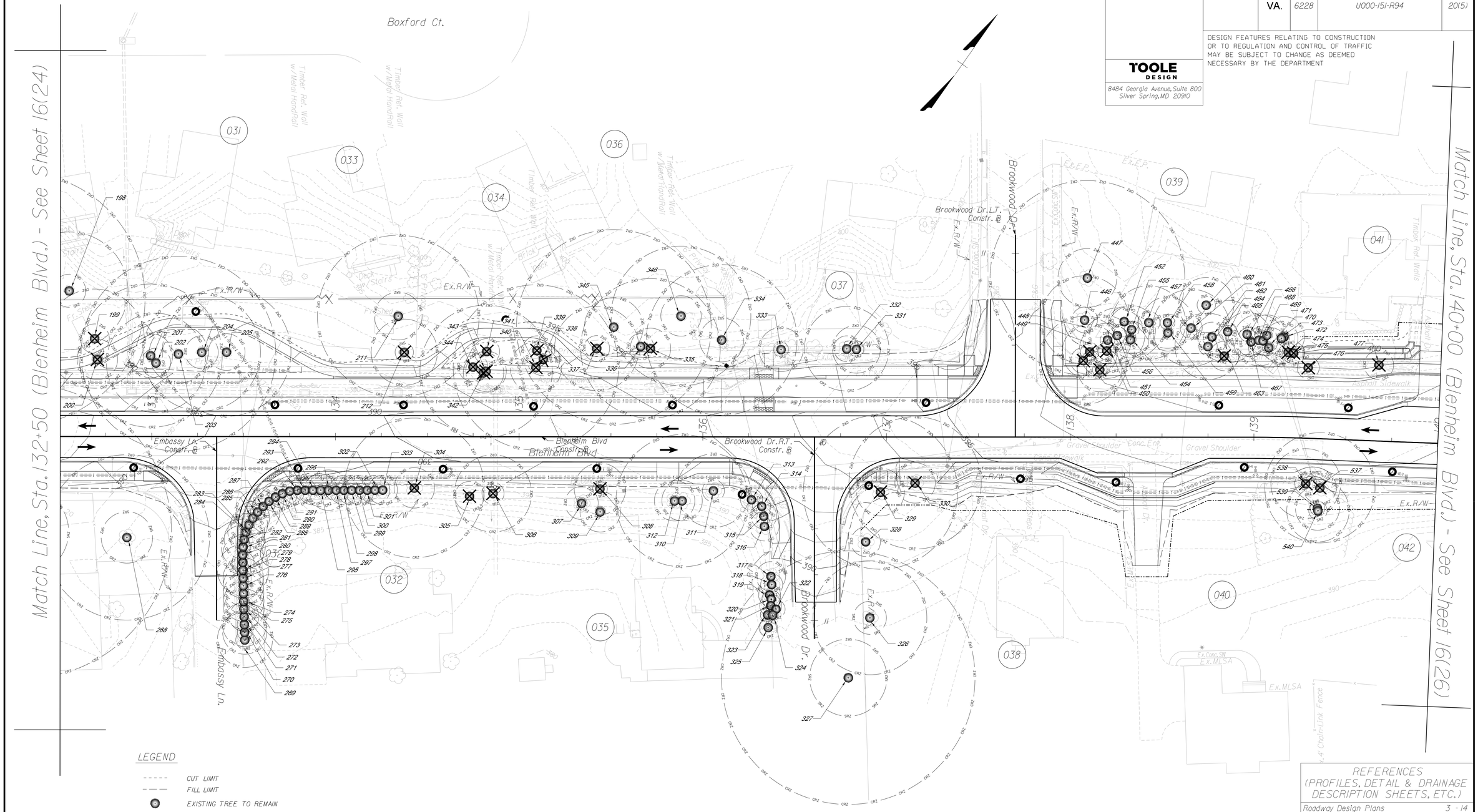
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	20(5)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

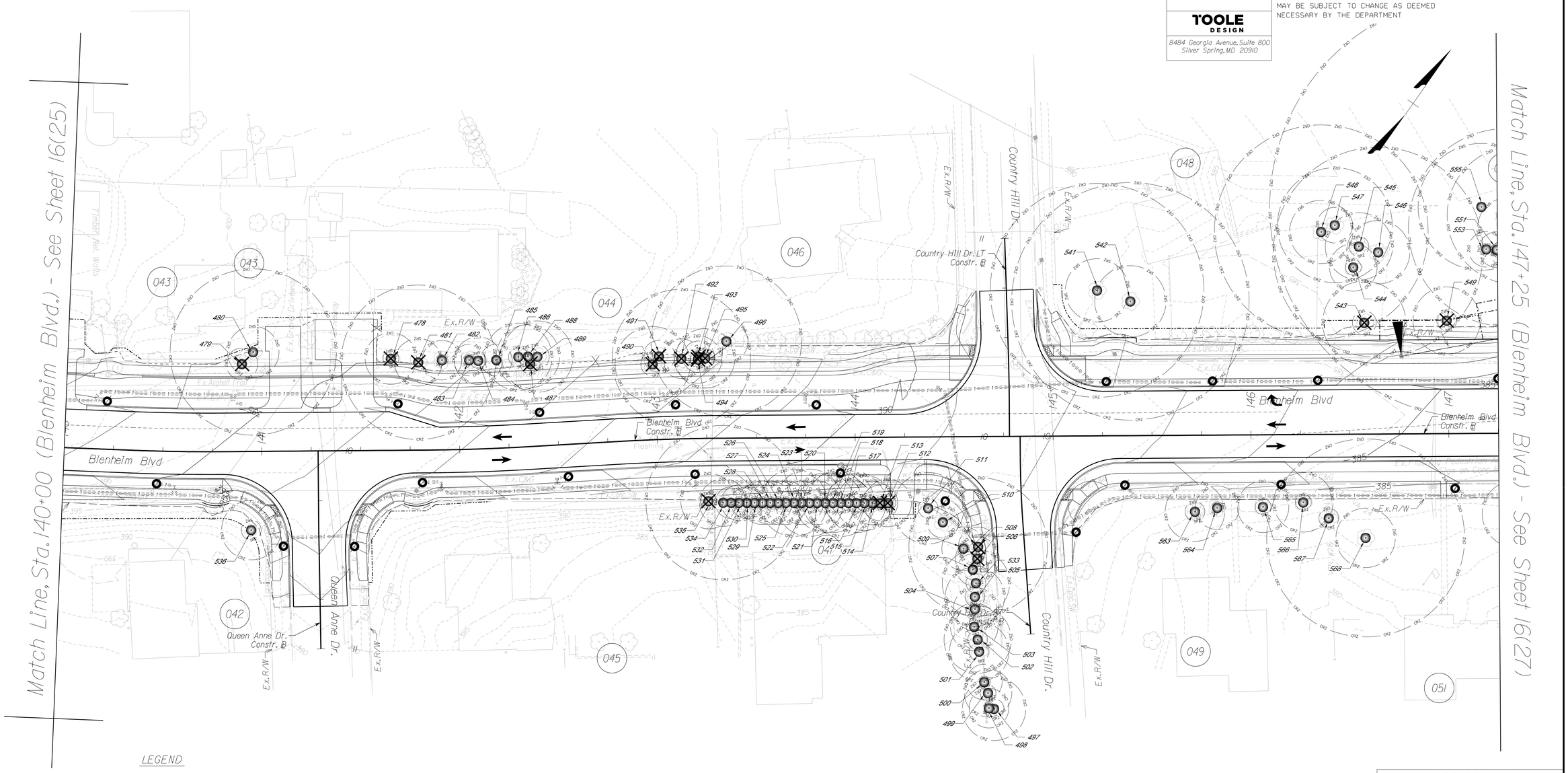
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

SCALE 0 25' 50'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(6)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

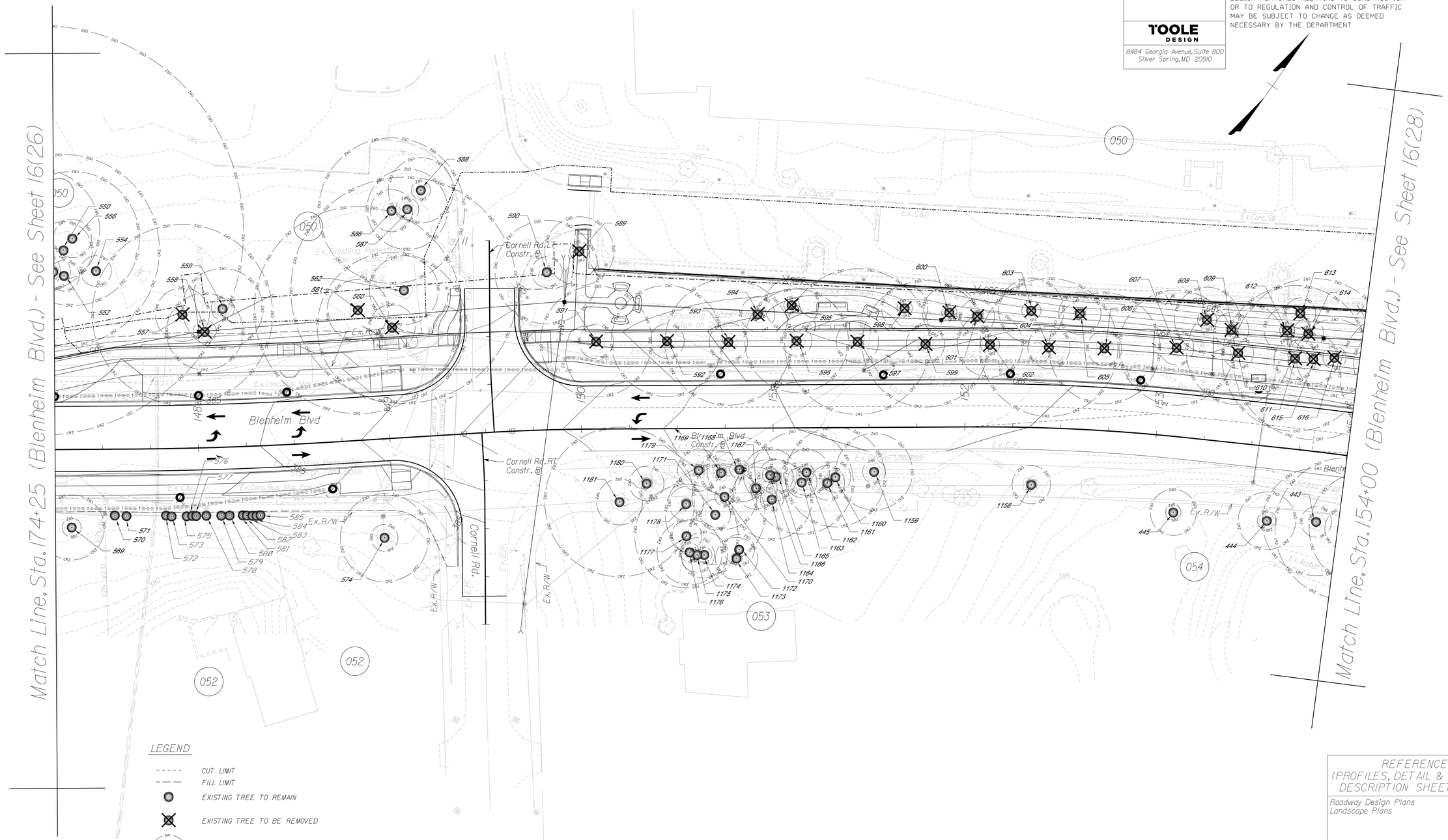
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	207

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	207

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:25:47 PM

d107013_016(28).dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

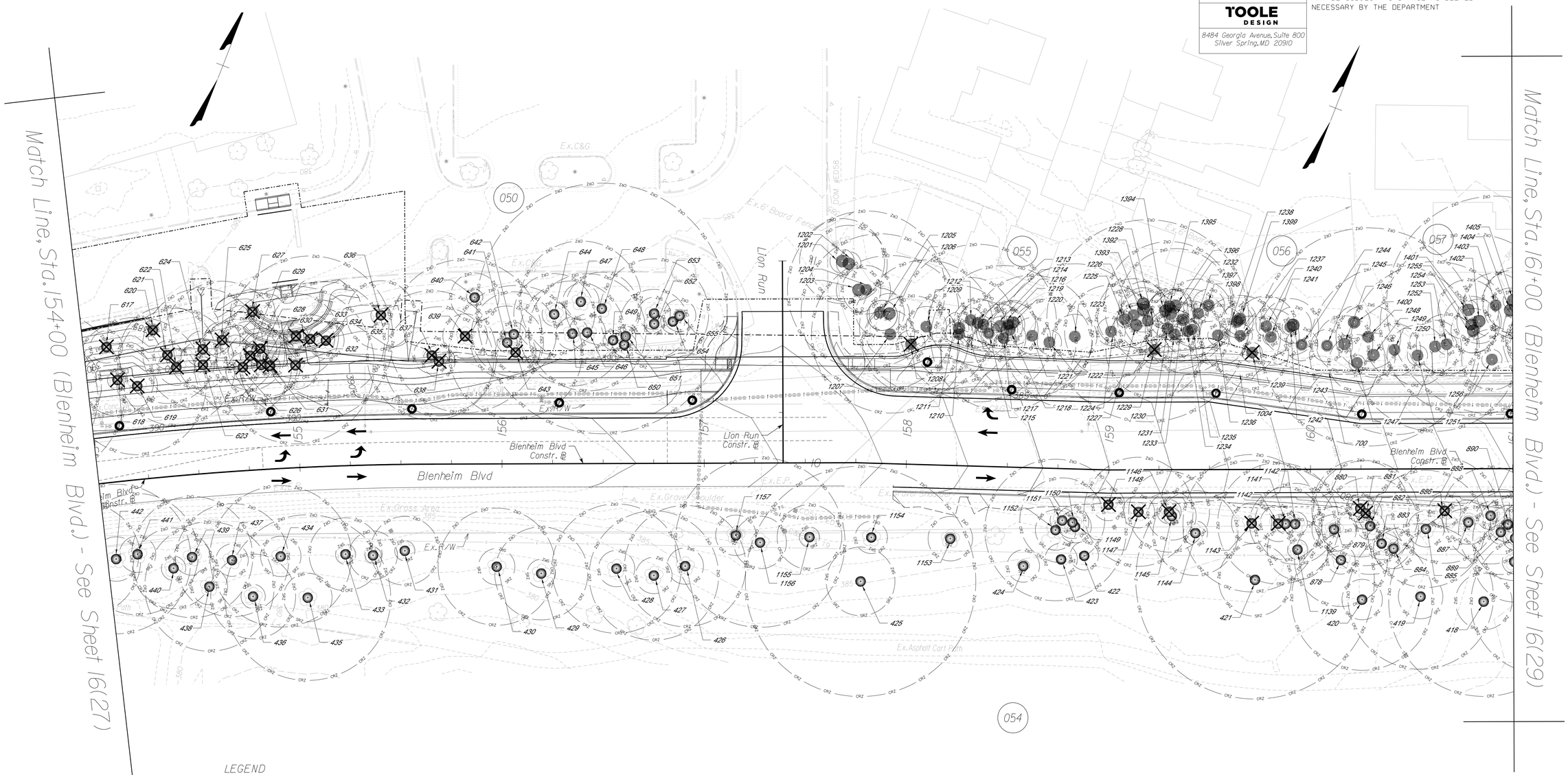
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(8)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:29:55 PM

d107013_016(29).dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

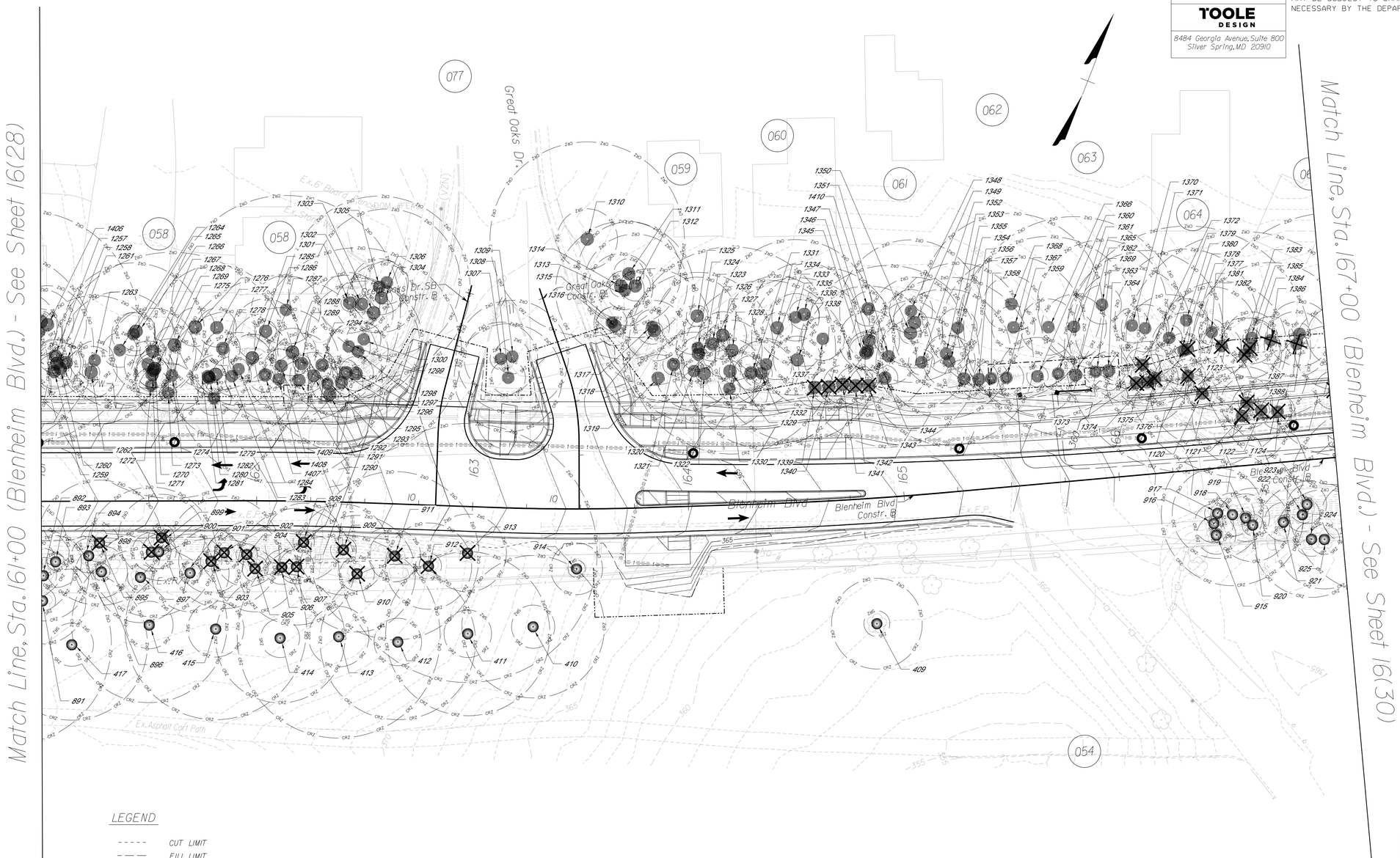
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ - CRITICAL ROOT ZONE
- SRZ - STRUCTURAL ROOT ZONE

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(9)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

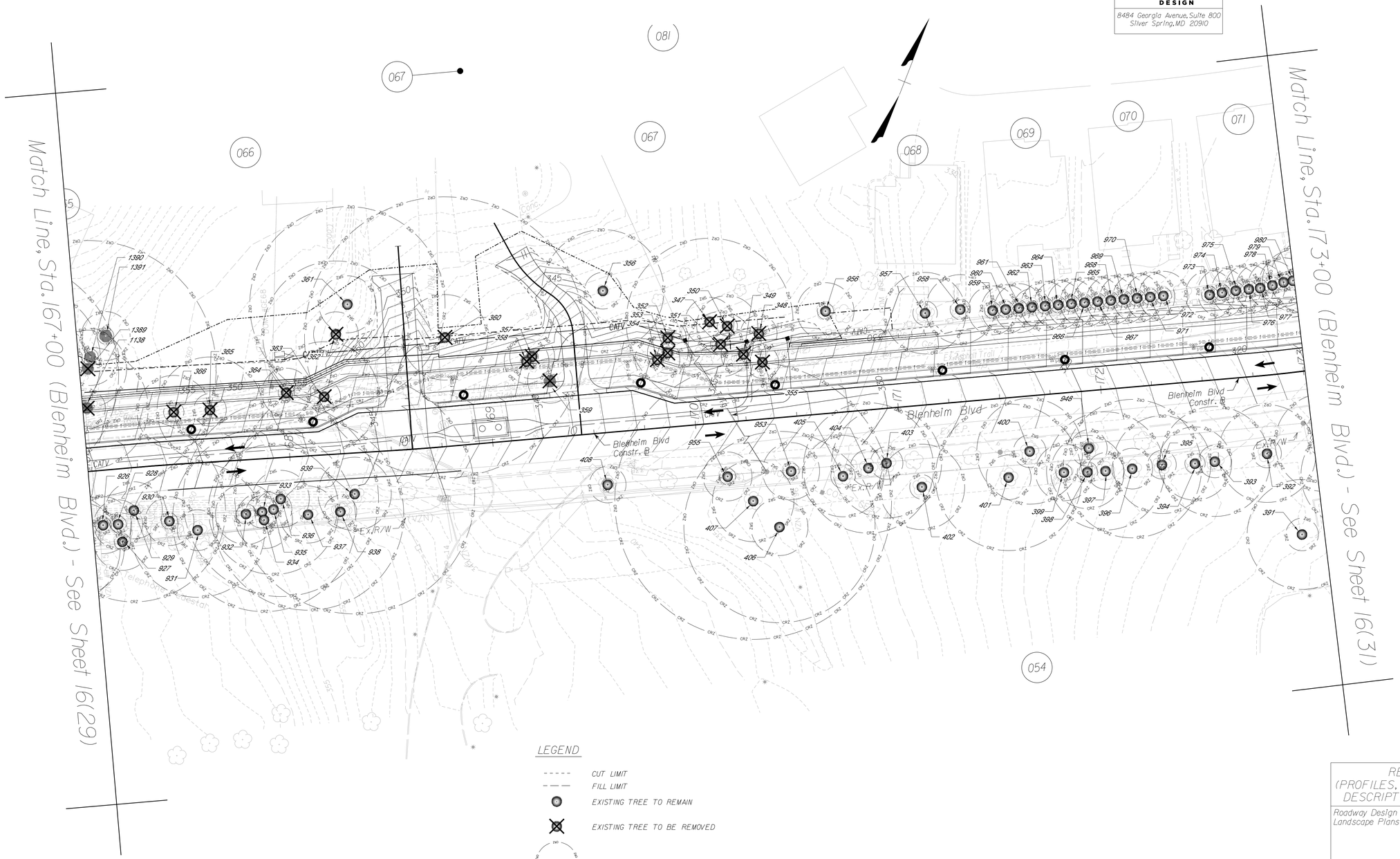
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



LEGEND

- CUT LIMIT
- FILL LIMIT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- CRZ = CRITICAL ROOT ZONE
- SRZ = STRUCTURAL ROOT ZONE

SCALE
0 25' 50'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landscape Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(10)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

5/15/2025
3:15:06 PM

d107013_0161311.dgn
Plotted By: TonyTrefzger

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

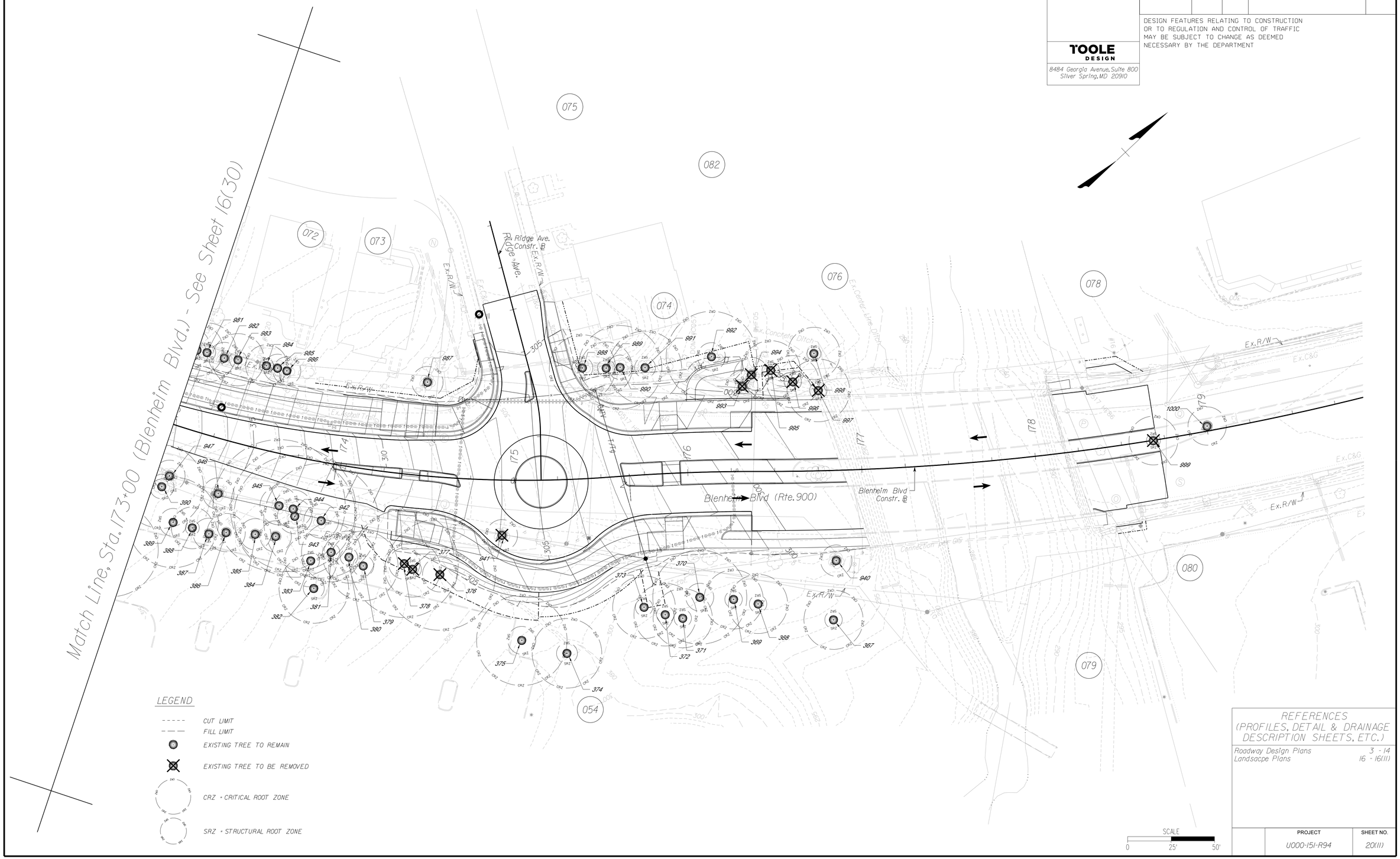
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(11)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Landsacpe Plans	16 - 16(11)

PROJECT	SHEET NO.
U000-151-R94	20(11)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
1	4	maple, red	Acer rubrum	75%	Good	NO	3	12	1	2	6	2		TrunkDecay	Yes
2	4	maple, red	Acer rubrum	70%	Good	NO	3	12	1	2	6	2		BuriedRootCollar	Yes
3	8	maple, red	Acer rubrum	60%	Fair	NO	6	16	1	4	12	2	gr 2""x6""	GirdlingRootCollarnotesize, BuriedRootCollar, Co-DominantStems	Yes
4	42	tuliptree	Liriodendron tulipifera	70%	Good	NO	18	90	1	19	63	2		LargeDW(3+), BrokenLimbs, SmallDW(1-2"), OverheadUtilities	Yes
5	9	maple, red	Acer rubrum	80%	Good	NO	10	20	1	4	14	2			Yes
6	9	maple, red	Acer rubrum	80%	Good	NO	10	20	1	4	14	2			Yes
7	27	maple, red	Acer rubrum	65%	Good	NO	16	60	1	12	41	2	old trunk wound; exposed wood, gr 1"x2'	Co-DominantStems, GirdlingRootCollarnotesize	Yes
8	7	maple, red	Acer rubrum	65%	Good	NO	8	16	1	3	11	2	frost cracks	BuriedRootCollar	Yes
9	23	maple, red	Acer rubrum	65%	Good	NO	16	60	1	10	35	2	gr 3""x2'	GirdlingRootCollarnotesize, Co-DominantStems, OverheadUtilities	Yes
10	22	maple, red	Acer rubrum	65%	Good	NO	16	60	1	10	33	2	gr 2""x6""	GirdlingRootCollarnotesize, Co-DominantStems	Yes
11	22	maple, red	Acer rubrum	65%	Good	NO	18	60	1	10	33	2	gr 3""x24""	Co-DominantStems, SmallDW(1-2"), GirdlingRootCollarnotesize	Yes
12	17	maple, red	Acer rubrum	65%	Good	NO	12	40	1	8	26	2	gr 1""x12""	Co-DominantStems, SmallDW(1-2"), GirdlingRootCollarnotesize, BrokenLimbs	
13	17	maple, red	Acer rubrum	55%	Fair	NO	10	46	1	8	26	2	gr 1""x6""	GirdlingRootCollarnotesize, LargeDW(3+), SmallDW(1-2"), BrokenLimbs, CompactedSoils	Yes
14	23	maple, red	Acer rubrum	65%	Good	NO	16	46	1	10	35	2		Co-DominantStems, CompactedSoils	
15	17	maple, red	Acer rubrum	45%	Fair	NO	18	46	1	8	26	3	gr 3""x8""	GirdlingRootCollarnotesize, BranchDecay, SmallDW(1-2"), BrokenLimbs, LargeDW(3+), Co-DominantStems, OverheadUtilities	
16	27	maple, red	Acer rubrum	60%	Fair	NO	18	50	1	12	41	2	gr 1"x2', 2"x6"	Co-DominantStems, InclBark/WeakUnion, GirdlingRootCollarnotesize, OverheadUtilities, SmallDW(1-2")	
17	21	maple, red	Acer rubrum	65%	Good	NO	20	50	1	9	32	2		Co-DominantStems, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
18	23	maple, red	Acer rubrum	65%	Good	NO	18	46	1	10	35	2	gr 4""x16""	GirdlingRootCollarnotesize, CompactedSoils, BrokenLimbs, OverheadUtilities	Yes
19	17	maple, red	Acer rubrum	65%	Good	NO	16	46	1	8	26	2	gr 1""x18""	GirdlingRootCollarnotesize, SmallDW(1-2"), OverheadUtilities	
20	20	maple, red	Acer rubrum	65%	Good	NO	16	46	1	9	30	2	gr 4""x12""	OverheadUtilities, GirdlingRootCollarnotesize, Co-DominantStems	
21	31	oak, willow	Quercus phellos	50%	Fair	NO	18	66	1	14	47	2	heavily pruned, many sprouts, gr 2"x24"	Stressed, CompactedSoils, OverheadUtilities, BrokenLimbs, SmallDW(1-2"), BranchDecay, GirdlingRootCollarnotesize	
22	15	maple, red	Acer rubrum	65%	Good	NO	9	18	1	7	23	2		SmallDW(1-2"), BranchDecay, OverheadUtilities	
23	17	maple, red	Acer rubrum	60%	Fair	NO	13	20	1	8	26	2	gr3""x3'	GirdlingRootCollarnotesize, CompactedSoils, BranchDecay, OverheadUtilities	
24	11	maple, red	Acer rubrum	60%	Fair	NO	14	18	1	5	17	2		OverheadUtilities, BranchDecay, SmallDW(1-2"), Co-DominantStems, CompactedSoils	
25	17	maple, red	Acer rubrum	65%	Good	NO	13	20	1	8	26	2	gr 4""x9""	BranchDecay, SmallDW(1-2"), GirdlingRootCollarnotesize, OverheadUtilities, CompactedSoils	
26	17	maple, red	Acer rubrum	65%	Good	NO	16	26	1	8	26	2	overextended branches	OverheadUtilities, RootDamage/Decay, CompactedSoils	
27	20	maple, red	Acer rubrum	65%	Good	NO	18	18	1	9	30	2	overextended brancheds	OverheadUtilities, SmallDW(1-2"), BranchDecay, CompactedSoils	
28	15	maple, red	Acer rubrum	65%	Good	NO	10	20	1	7	23	2	gr 2""x6""	GirdlingRootCollarnotesize, CompactedSoils, OverheadUtilities, SmallDW(1-2"), Co-DominantStems	
29	14	maple, red	Acer rubrum	65%	Good	NO	17	20	1	6	21	2	gr 1""x7""	GirdlingRootCollarnotesize, OverheadUtilities, CompactedSoils, Co-DominantStems	
30	18	maple, red	Acer rubrum	70%	Good	NO	15	20	1	8	27	2	gr3""x16""	GirdlingRootCollarnotesize, CompactedSoils, OverheadUtilities	
31	8	maple, red	Acer rubrum	40%	Poor	NO	9	12	1	4	12	4	dead top	BasalDecay, SmallDW(1-2"), SeriousDecline, OverheadUtilities, CompactedSoils, LowVigor	Yes
32	15	maple, red	Acer rubrum	65%	Good	NO	15	18	1	7	23	2		CompactedSoils, OverheadUtilities, BrokenLimbs, SmallDW(1-2"), RootDamage/Decay	
33	20	maple, red	Acer rubrum	75%	Good	NO	17	20	1	9	30	2	gr 2""x6""	RootDamage/Decay, GirdlingRootCollamotesize, OverheadUtilities, CompactedSoils	
34	12	maple, red	Acer rubrum	65%	Good	NO	14	18	1	5	18	2		CompactedSoils, RootDamage/Decay, OverheadUtilities	Yes
35	21	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	8	16	1	9	32	2		Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, CompactedSoils, SmallDW(1-2"), RootDamage/Decay	Yes
36	12,12,11, 5,8	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	12	18	5	10	33	2		Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, CompactedSoils, SmallDW(1-2"), BrokenLimbs, RootDamage/Decay	Yes
37	16	ash spp.	Fraxinus spp.	0%	Dead	YES	3	20	1	7	24	4			Yes
38	27	maple, red	Acer rubrum	65%	Good	NO	14	50	1	12	41	2		Vines, SmallDW(1-2"), Co-DominantStems, CompactedSoils, OverheadUtilities	
39	28	maple, red	Acer rubrum	60%	Fair	NO	15	60	1	13	42	2		CompactedSoils, OverheadUtilities, RootDamage/Decay, SmallDW(1-2")	
40	37	maple, silver	Acer saccharinum	65%	Good	NO	20	66	1	17	56	2		Co-DominantStems, CompactedSoils, OverheadUtilities	
41	11	elm, slippery	Ulmus rubra	50%	Fair	NO	9	16	1	5	17	3	broken leader	CompactedSoils, OverheadUtilities	
42	11,10	hickory, pignut	Carya glabra	65%	Good	NO	16	20	2	7	22	2		Co-DominantStems, CompactedSoils, OverheadUtilities	Yes
43	26	maple, red	Acer rubrum	60%	Fair	NO	15	58	1	12	39	2		CompactedSoils, OverheadUtilities, InclBark/WeakUnion, Co-DominantStems, Hardware, RootDamage/Decay	
44	14,8	cherry, sweet	Prunus avium	45%	Fair	NO	14	20	2	7	24	3	heavily pruned, sprouts	CompactedSoils, OverheadUtilities, Co-DominantStems, RootDamage/Decay, ExcessiveLean, BranchDecay	Yes
45	11	cherry, sweet	Prunus avium	0%	Dead	YES	2	16	1	5	17	4		ExcessiveLean, CompactedSoils	
46	6,4	mulberry, white	Morus alba	50%	Fair	NO	9	16	2	3	11	3	excessive sprouts	Co-DominantStems, Stressed, CompactedSoils	
47	7,7,6,16	blackgum	Nyssa sylvatica	40%	Poor	NO	16	30	4	9	30	3	excessive sprouts	Co-DominantStems, CompactedSoils, OverheadUtilities, RootDamage/Decay, TrunkDecay	Yes
48	19	blackgum	Nyssa sylvatica	50%	Fair	NO	13	46	1	9	29	2		BasalDecay, OneSided, OverheadUtiiities, RootDamage/Decay	Yes
49	14	blackgum	Nyssa sylvatica	45%	Fair	NO	9	44	1	6	21	3		OneSided, CompactedSoils, OverheadUtilities, BranchDecay, SmallDW(1-2"), ExcessiveLean	Yes
50	19	blackgum	Nyssa sylvatica	50%	Fair	NO	10	46	1	9	29	3		OneSided, SmallDW(1-2"), BranchDecay, OverheadUtilities, CompactedSoils, RootDamage/Decay	Yes
51	4	oak, northern red	Quercus rubra	80%	Good	NO	3	12	1	2	6	2		BuriedRootCollar	
52	14	oak, pin	Quercus palustris	75%	Good	NO	9	20	1	6	21	2		SmallDW(1-2"), OverheadUtilities	
53	5	oak, pin	Quercus palustris	65%	Good	NO	8	14	1	2	8	2	angular curvature in leader @ 8'	OverheadUtilities, BuriedRootCollar	
54	8	oak, scarlet	Quercus coccinea	65%	Good	NO	8	16	1	4	12	2	trunk wound w/woundwood 3""x5'	TrunkDecay, Co-DominantStems, OverheadUtilities	
55	9	oak, northern red	Quercus rubra	55%	Fair	NO	10	20	1	4	14	2		OverheadUtilities, BuriedRootCollar, Co-DominantStems, TrunkDecay, BranchDecay	
56	10	oak, northern red	Quercus rubra	75%	Good	NO	8	24	1	5	15	2		OverheadUtilities, BuriedRootCollar	
57	25	tuliptree	Liriodendron tulipifera	70%	Good	NO	14	70	1	11	38	2		OverheadUtilities, LargeDW(3+), SmallDW(1-2")	Yes
58	20	tuliptree	Liriodendron tulipifera	55%	Fair	NO	14	54	1	9	30	2	adjacent to tree included bark, bent top	LargeDW(3+), SmallDW(1-2"), OneSided	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(12)

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(12)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
59	26	tuliptree	Liriodendron tulipifera	40%	Poor	NO	15	70	1	12	39	3	longitudinal crack 3' long at 55'	Co-DominantStems, SmallDW(1-2"), LargeDW(3+)	Yes
60	25	tuliptree	Liriodendron tulipifera	45%	Fair	NO	7	60	1	11	38	3	trunk cavity 7""x3'x3""	NarrowCrown, OneSided, Stressed, SeriousDecline, OverheadUtilities, SmallDW(1-2"), LargeDW(3+), BasalDecay, TrunkDecay	Yes
61	9	dahoon	Ilex cassine	70%	Good	NO	6	14	1	4	14	2	ilex cassine, 2"x 2'	TrunkDecay, OverheadUtilities	Yes
62	9,8	dahoon	Ilex cassine	60%	Fair	NO	8	16	2	5	18	2		Co-DominantStems, RootDamage/Decay, BasalDecay	
63	7,7,5,6	cherry, sweet	Prunus avium	50%	Fair	NO	8	10	4	6	19	2		Co-DominantStems, BranchDecay, Hardware, RootDamage/Decay	
64	18	pine, shortleaf	Pinus echinata	70%	Good	NO	13	20	1	8	27	2		OverheadUtilities	
65	7,7,7,7	cherry, sweet	Prunus avium	60%	Fair	NO	9	10	4	6	21	2		Co-DominantStems, OverheadUtilities	
66	5,5	pear, Callery	Pyrus calleryana	30%	Poor	NO	3	8	2	3	11	3		Co-DominantStems, LargeDW(3+), SmallDW(1-2"), SeriousDecline, OverheadUtilities	Yes
67	26	maple, red	Acer rubrum	60%	Fair	NO	15	64	1	12	39	2	gr 2""x8""; 3""x6""	SmallDW(1-2"), GirdlingRootCollamotesize, Co-DominantStems, InclBark/WeakUnion	
68	20	maple, red	Acer rubrum	65%	Good	NO	15	66	1	9	30	2	gr 2""x12""	GirdlingRootCollamotesize, BrokenLimbs, SmallDW(1-2"), RootDamage/Decay, Co-DominantStems	
69	9	maple, red	Acer rubrum	65%	Good	NO	8	20	1	4	14	2		Co-DominantStems, RootDamage/Decay	
70	10	pine, Virginia	Pinus virginiana	75%	Good	NO	7	24	1	5	15	2			
71	12	pine, Virginia	Pinus virginiana	75%	Good	NO	7	24	1	5	18	2			
72	10	maple, red	Acer rubrum	65%	Good	NO	6	20	1	5	15	2		RootDamage/Decay, BrokenLimbs, SmallDW(1-2"), BuriedRootCollar	
73	12	maple, red	Acer rubrum	70%	Good	NO	8	20	1	5	18	2	gr 1""x12""	RootDamage/Decay, SmallDW(1-2")	
74	15	maple, red	Acer rubrum	55%	Fair	NO	14	22	1	7	23	2	gr 2""x12""; 2""x6""; tc 4""x12""x3""	GirdlingRootCollamotesize, OverheadUtilities, TrunkDecay	
75	11	maple, red	Acer rubrum	65%	Good	NO	12	18	1	5	17	2		CompactedSoils, Co-DominantStems, BuriedRootCollar, OverheadUtilities	
76	10	maple, red	Acer rubrum	75%	Good	NO	8	24	1	5	15	2	gr 2""x4""	BuriedRootCollar, GirdlingRootCollarnotesize, OverheadUtilities	
77	4	maple, red	Acer rubrum	75%	Good	NO	3	10	1	2	6	2	1""x7"" gr	CompactedSoils, OverheadUtilities, GirdlingRootCollarnotesize	
78	9	elm, Chinese	Ulmus parvifolia	70%	Good	NO	10	18	1	4	14	2		BuriedRootCollar, BrokenLimbs, OverheadUtilities, CompactedSoils	
79	4,3	maple, red	Acer rubrum	50%	Fair	NO	4	12	2	2	8	3	trunk wound 2""x4""; dead leader	Co-DominantStems, OverheadUtilities, BuriedRootCollar, BranchDecay, SmallDW(1-2"), CompactedSoils	
80	11	maple, red	Acer rubrum	65%	Good	NO	12	20	1	5	17	2		BuriedRootCollar, OverheadUtilities, CompactedSoils, Co-DominantStems	
81	12	maple, red	Acer rubrum	65%	Good	NO	11	20	1	5	18	2		OverheadUtilities, BuriedRootCollar, CompactedSoils	
82	15	maple, red	Acer rubrum	60%	Fair	NO	13	20	1	7	23	2	gr 3""x12""	OverheadUtilities, CompactedSoils, GirdlingRootCollamotesize, SmallDW(1-2"), BrokenLimbs, LargeDW(3+)	
83	8	maple, red	Acer rubrum	65%	Good	NO	9	18	1	4	12	2		Co-DominantStems, CompactedSoils, OverheadUtilities, BuriedRootCollar, SmallDW(1-2")	
84	14	maple, red	Acer rubrum	50%	Fair	NO	12	22	1	6	21	2	trunk wound 5""x2'	TrunkDecay, CompactedSoils, OverheadUtilities, BasalDecay, SmallDW(1-2"), LargeDW(3+), BranchDecay	
85	10	maple, red	Acer rubrum	65%	Good	NO	9	22	1	5	15	2		RootDamage/Decay, OverheadUtilities, CompactedSoils, BuriedRootCollar, Co-DominantStems	
86	14	maple, red	Acer rubrum	70%	Good	NO	12	24	1	6	21	2		Vines, OverheadUtilities, CompactedSoils, SmallDW(1-2")	
87	7	maple, red	Acer rubrum	70%	Good	NO	10	16	1	3	11	2		OverheadUtilities, CompactedSoils, BuriedRootCollar	
88	15	maple, red	Acer rubrum	70%	Good	NO	12	24	1	7	23	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	
89	8	maple, red	Acer rubrum	60%	Fair	NO	6	16	1	4	12	2		CompactedSoils, OverheadUtilities, BuriedRootCollar, OneSided, Co-DominantStems	
90	22	maple, red	Acer rubrum	70%	Good	NO	14	26	1	10	33	2		OverheadUtilities, CompactedSoils, SmallDW(1-2")	
91	10	maple, red	Acer rubrum	60%	Fair	NO	8	18	1	5	15	2		CompactedSoils, OverheadUtilities, BuriedRootCollar, TrunkDecay, BranchDecay	
92	24	maple, red	Acer rubrum	65%	Good	NO	15	26	1	11	36	2		Co-DominantStems, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
93	4,5	maple, red	Acer rubrum	65%	Good	NO	8	18	2	3	10	2		BuriedRootCollar, CompactedSoils, Co-DominantStems, OverheadUtilities, BrokenLimbs	Yes
94	17	maple, red	Acer rubrum	65%	Good	NO	13	26	1	8	26	2		BuriedRootCollar, CompactedSoils, OverheadUtilities, RootDamage/Decay, Co-DominantStems, SmallDW(1-2"), BrokenLimbs	Yes
95	7	maple, red	Acer rubrum	75%	Good	NO	9	20	1	3	11	2		CompactedSoils	
96	5	cherry, sweet	Prunus avium	70%	Good	NO	8	10	1	2	8	2		RootDamage/Decay, CompactedSoils, BuriedRootCollar	
97	8	cherry, sweet	Prunus avium	70%	Good	NO	10	16	1	4	12	2		RootDamage/Decay, BrokenLimbs, CompactedSoils	
98	4,5	cherry, sweet	Prunus avium	65%	Good	NO	10	10	2	3	10	2		Co-DominantStems, CompactedSoils, BuriedRootCollar	
99	7,7	cherry, sweet	Prunus avium	65%	Good	NO	9	12	2	4	15	2		BuriedRootCollar, RootDamage/Decay, OverheadUtilities, CompactedSoils, Co-DominantStems	Yes
100	7	cherry, sweet	Prunus avium	60%	Fair	NO	7	8	1	3	11	2	trunk wound 7""x2'	BuriedRootCollar, CompactedSoils, TrunkDecay	Yes
101	4	cherry, sweet	Prunus avium	70%	Good	NO	5	8	1	2	6	2		BuriedRootCollar, CompactedSoils	
102	4	cherry, sweet	Prunus avium	45%	Fair	NO	3	8	1	2	6	3		BuriedRootCollar, CompactedSoils, TrunkDecay, BasalDecay, BranchDecay	
103	24	maple, red	Acer rubrum	50%	Fair	NO	15	20	1	11	36	3	gr 2""x12""	BrokenLimbs, SmallDW(1-2"), Co-DominantStems, BuriedRootCollar, TrunkDecay, BranchDecay, GirdlingRootCollamotesize, FungalFruitingBodies, BasalDecay, CompactedSoils	
104	8	linden, littleleaf	Tilia cordata	70%	Good	NO	8	14	1	4	12	2	gr2""x8""	RootDamage/Decay, GirdlingRootCollarnotesize, BrokenLimbs, SmallDW(1-2"), CompactedSoils	Yes
105	9	linden, littleleaf	Tilia cordata	60%	Fair	NO	8	16	1	4	14	2		Co-DominantStems, InclBark/WeakUnion, TrunkDecay, BrokenLimbs, SmallDW(1-2"), CompactedSoils, RootDamage/Decay	Yes
106	8	linden, littleleaf	Tilia cordata	70%	Good	NO	9	16	1	4	12	2	gr 3""x6""	GirdlingRootCollarnotesize, SmallDW(1-2"), BrokenLimbs, CompactedSoils, RootDamage/Decay	Yes
107	2,3,2	magnolia, sweetbay	Magnolia virginiana	65%	Good	NO	5	8	3	2	6	2		Co-DominantStems, BuriedRootCollar, CompactedSoils	
108	7	holly, American	Ilex opaca	70%	Good	NO	5	8	1	3	11	2		OverheadUtilities, CompactedSoils, BuriedRootCollar	
109	4	holly, Fosters	Ilex x attenuata 'Fosteri'	75%	Good	NO	3	8	1	2	6	2		BuriedRootCollar, CompactedSoils, OverheadUtilities	
110	8,9	holly, American	Ilex opaca	60%	Fair	NO	6	12	2	5	18	2	gr 2""x6""	Co-DominantStems, InclBark/WeakUnion, CompactedSoils, GirdlingRootCollamotesize, OverheadUtilities	
111	12	holly, American	Ilex opaca	65%	Good	NO	7	16	1	5	18	2	several upright stems	OverheadUtilities, CompactedSoils	
112	12	holly, American	Ilex opaca	65%	Good	NO	6	12	1	5	18	2	upright stems	CompactedSoils, OverheadUtilities	
113	12	maple, red	Acer rubrum	70%	Good	NO	12	20	1	5	18	2		BuriedRootCollar, CompactedSoils, OverheadUtilities, SmallDW(1-2"), BrokenLimbs	
114	9	holly, American	Ilex opaca	65%	Good	NO	4	14	1	4	14	2	crown lean	CompactedSoils, BuriedRootCollar, OverheadUtilities	
115	12	maple, red	Acer rubrum	60%	Fair	NO	8	16	1	5	18	2		CompactedSoils, Co-DominantStems, InclBark/WeakUnion, BuriedRootCollar, OverheadUtilities	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(13)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(13)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
116	9	maple, red	Acer rubrum	75%	Good	NO	7	16	1	4	14	2	gr 1""x5""	OverheadUtilities, CompactedSoils, BuriedRootCollar, GirdlingRootCollarnotesize	
117	6,5,3	holly, American	Ilex opaca	60%	Fair	NO	6	14	3	4	13	2		BuriedRootCollar, CompactedSoils, Co-DominantStems, InclBark/WeakUnion, OverheadUtilities	
118	13	maple, red	Acer rubrum	65%	Good	NO	10	20	1	6	20	2	upright branch gr 1""x12""	CompactedSoils, OverheadUtilities, GirdlingRootCollarnotesize	
119	14	maple, red	Acer rubrum	60%	Fair	NO	12	24	1	6	21	2	3""x4""	CompactedSoils, OverheadUtilities, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), GirdlingRootCollarnotesize, BrokenLimbs	
120	17	maple, red	Acer rubrum	30%	Poor	NO	12	40	1	8	26	4	dead leader	BuriedRootCollar, Co-DominantStems, SmallDW(1-2"), LargeDW(3+), TrunkDecay, BasalDecay, BranchDecay, BrokenLimbs, SeriousDecline	
121	4,4,2	maple, red	Acer rubrum	55%	Fair	NO	3	12	3	3	9	3		Co-DominantStems, CompactedSoils, TrunkDecay	
122	11	redcedar, eastern	Juniperus virginiana	70%	Good	NO	7	30	1	5	17	2	gr 2""x6""	GirdlingRootCollarnotesize, CompactedSoils	
123	11	maple, red	Acer rubrum	65%	Good	NO	10	30	1	5	17	2	gr 3""x6""	CompactedSoils, MechanicalDamage, GirdlingRootCollarnotesize, Co-DominantStems, BuriedRootCollar	
124	12	elm, Chinese	Ulmus parvifolia	55%	Fair	NO	13	24	1	5	18	2	gr 1""x5""; multi. branches from single origin	MechanicalDamage, BrokenLimbs, SmallDW(1-2"), BuriedRootCollar, CompactedSoils, GirdlingRootCollarnotesize	
125	10	elm, Chinese	Ulmus parvifolia	70%	Good	NO	11	16	1	5	15	2	gr 1""x5""	BuriedRootCollar, GirdlingRootCollarnotesize	
126	9	elm, Chinese	Ulmus parvifolia	65%	Good	NO	8	14	1	4	14	2	gr 2""x8""	CompactedSoils, Co-DominantStems, GirdlingRootCollarnotesize, BuriedRootCollar	
127	10	elm, Chinese	Ulmus parvifolia	70%	Good	NO	10	16	1	5	15	2	gr 1""x4""	CompactedSoils, BuriedRootCollar, GirdlingRootCollarnotesize, SmallDW(1-2")	
128	11	elm, Chinese	Ulmus parvifolia	70%	Good	NO	10	14	1	5	17	2	gr 1""x 6""	CompactedSoils, SmallDW(1-2"), BrokenLimbs, BuriedRootCollar, GirdlingRootCollarnotesize	
129	12	elm, Chinese	Ulmus parvifolia	60%	Fair	NO	13	18	1	5	18	2	gr 4""x15""	BuriedRootCollar, GirdlingRootCollarnotesize, CompactedSoils, Co-DominantStems, SmallDW(1-2"), BrokenLimbs	
130	14	maple, red	Acer rubrum	60%	Fair	NO	12	22	1	6	21	2	gr 1""x24""	Co-DominantStems, GirdlingRootCollarnotesize, CompactedSoils, InclBark/WeakUnion, BrokenLimbs, SmallDW(1-2")	
131	13	maple, red	Acer rubrum	55%	Fair	NO	10	26	1	6	20	2	upright stems	BuriedRootCollar, CompactedSoils	
132	8	ash, green	Fraxinus pennsylvanica	30%	Poor	NO	6	16	1	4	12	2		Insect/DiseaseProblem, SeriousDecline, SmallDW(1-2"), LargeDW(3+), Stressed, LowVigor, BuriedRootCollar, CompactedSoils	
133	7	cherry, sweet	Prunus avium	65%	Good	NO	9	12	1	3	11	2		CompactedSoils, BuriedRootCollar, BrokenLimbs, BranchDecay	
134	12	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	10	24	1	5	18	2	broken leader/heading cut	CompactedSoils, SmallDW(1-2"), Vines, Suppressed	
135	11	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	10	24	1	5	17	2		SmallDW(1-2"), LargeDW(3+), Suppressed, CompactedSoils, Vines	
136	17	redcedar, eastern	Juniperus virginiana	65%	Good	NO	9	26	1	8	26	2		Vines, CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
137	11	cherry, sweet	Prunus avium	70%	Good	NO	10	18	1	5	17	2		OneSided, CompactedSoils	
138	12	blackgum	Nyssa sylvatica	65%	Good	NO	15	30	1	5	18	2		Vines, Hardware, SmallDW(1-2"), OverheadUtilities	
139	25	pine, eastern white	Pinus strobus	60%	Fair	NO	15	56	1	11	38	2	dbh est. from street, no permission letter	SmallDW(1-2"), LargeDW(3+), BuriedRootCollar, OverheadUtilities	Yes
140	29	pine, eastern white	Pinus strobus	70%	Good	NO	15	60	1	13	44	2	dbh est. from sidewalk, no permission letter	OverheadUtilities, BrokenLimbs	Yes
141	27	poplar, white	Populus alba	60%	Fair	NO	10	58	1	12	41	2		Vines, SmallDW(1-2"), LargeDW(3+), Stressed, OverheadUtilities	Yes
142	32	poplar, white	Populus alba	70%	Good	NO	15	78	1	14	48	2		OverheadUtilities, SmallDW(1-2")	Yes
143	35	oak, willow	Quercus phellos	60%	Fair	NO	18	70	1	16	53	2	limited rooting space	Co-DominantStems, LargeDW(3+), SmallDW(1-2")	
144	30	cherry, black	Prunus serotina	55%	Fair	NO	18	68	1	14	45	2	many sprouts	BasalDecay, OverheadUtilities, RootDamage/Decay, SmallDW(1-2"), Stressed, Co-DominantStems, CompactedSoils	Yes
145	20	maple, red	Acer rubrum	60%	Fair	NO	18	66	1	9	30	2		Co-DominantStems, RootDamage/Decay, OverheadUtilities, ExcessiveLean, SmallDW(1-2"), CompactedSoils	Yes
146	28	spruce, Norway	Picea abies	65%	Good	NO	14	68	1	13	42	2	dbh from sidewalk, no permission letter	OverheadUtilities, CompactedSoils	
147	13	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	5	30	1	6	20	2		CompactedSoils, OverheadUtilities, SmallDW(1-2"), Suppressed	
148	11	cypress, Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	5	17	2		Suppressed, SmallDW(1-2"), CompactedSoils, OverheadUtilities	
149	5	cypress, Leyland	x Cupressocyparis leylandii	50%	Fair	NO	3	20	1	2	8	2		Suppressed, OverheadUtilities, CompactedSoils, SmallDW(1-2")	
150	8	cypress, Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	28	1	4	12	2		CompactedSoils, Suppressed, SmallDW(1-2"), Stressed, OverheadUtilities	
151	10	cypress, Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	5	15	2		CompactedSoils, Suppressed, SmallDW(1-2")	
152	13	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	7	36	1	6	20	2		OverheadUtilities, CompactedSoils, Suppressed, SmallDW(1-2")	
153	8	mulberry, white	Morus alba	60%	Fair	NO	8	16	1	4	12	3		OneSided, SmallDW(1-2"), LargeDW(3+), CompactedSoils, ExcessiveLean, OverheadUtilities	
154	6	mulberry, white	Morus alba	30%	Poor	NO	4	8	1	3	9	3	topped	SmallDW(1-2"), OverheadUtilities	
155	7	cherry, black	Prunus serotina	40%	Poor	NO	6	12	1	3	11	3	heading cuts	ExcessiveLean, OverheadUtilities, SmallDW(1-2")	
156	5	cherry, black	Prunus serotina	30%	Poor	NO	5	12	1	2	8	3	topped	OverheadUtilities	
157	7	maple spp.	Acer spp.	0%	Dead	YES	2	10	1	3	11	4			
158	10	maple, red	Acer rubrum	40%	Poor	NO	5	24	1	5	15	3	topped	Vines, OverheadUtilities, Stressed	
159	24	oak, white	Quercus alba	40%	Poor	NO	10	46	1	11	36	3		Co-DominantStems, SmallDW(1-2"), LargeDW(3+), OverheadUtilities, Vines, SeriousDecline, BrokenLimbs	
160	14	maple, red	Acer rubrum	50%	Fair	NO	10	40	1	6	21	2		Vines, Stressed, SmallDW(1-2"), ExcessiveLean	
161	20	maple, red	Acer rubrum	45%	Fair	NO	12	66	1	9	30	3		Vines, Stressed, SmallDW(1-2"), LargeDW(3+), TrunkDecay, FungalFruitingBodies, SeriousDecline	
162	24	oak, white	Quercus alba	65%	Good	NO	10	70	1	11	36	2		OverheadUtilities, Vines, LargeDW(3+), SmallDW(1-2")	
163	5	mulberry, white	Morus alba	30%	Poor	NO	6	16	1	2	8	3	topped	Vines, OverheadUtilities	
164	6	beech, American	Fagus grandifolia	70%	Good	NO	9	14	1	3	9	2		Vines	
165	5	elm, slippery	Ulmus rubra	70%	Good	NO	7	14	1	2	8	2		Vines, OverheadUtilities	
166	8	cherry, sweet	Prunus avium	55%	Fair	NO	9	18	1	4	12	2		Vines, OverheadUtilities	
167	6	cherry, sweet	Prunus avium	55%	Fair	NO	6	16	1	3	9	2		Vines, SmallDW(1-2"), NarrowCrown	
168	6	cherry, black	Prunus serotina	55%	Fair	NO	6	16	1	3	9	2		Vines, SmallDW(1-2"), Stressed, NarrowCrown	
169	5	cherry, black	Prunus serotina	45%	Fair	NO	4	16	1	2	8	2		SmallDW(1-2"), Stressed, Suppressed, NarrowCrown	
170	7	cherry, black	Prunus serotina	70%	Good	NO	8	20	1	3	11	2		Vines	
171	7	cherry, black	Prunus serotina	45%	Fair	NO	9	18	1	3	11	2		Vines, ExcessiveLean, NarrowCrown	
172	10	ash spp.	Fraxinus spp.	0%	Dead	YES	7	18	1	5	15	4		Vines, Insect/DiseaseProblem	
173	7	ash spp.	Fraxinus spp.	0%	Dead	YES	4	14	1	3	11	4		Vines, Insect/DiseaseProblem	
174	25	maple spp.	Acer spp.	25%	Poor	NO	10	68	1	11	38	4	bark obscured by vines	Vines, SeriousDecline, SmallDW(1-2"), LargeDW(3+), Stressed	
175	22	ash spp.	Fraxinus spp.	0%	Dead	YES	5	40	1	10	33	4		Insect/DiseaseProblem, LargeDW(3+), SmallDW(1-2"), BrokenLimbs	Yes

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(14)

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(14)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
176	17	holly, American	Ilex opaca	75%	Good	NO	12	26	1	8	26	2		FullCrown	
177	8	cherry, black	Prunus serotina	45%	Fair	NO	6	20	1	4	12	3		Stressed, Vines, SeriousDecline, LowVigor	
178	2	cypress, Leyland	x Cupressocyparis leylandii	75%	Good	NO	3	8	1	1	3	2	planted by homeowner in ROW		Yes
179	2	cypress, Leyland	x Cupressocyparis leylandii	75%	Good	NO	3	8	1	1	3	2	planted by homeowner in ROW		
180	2	cypress, Leyland	x Cupressocyparis leylandii	75%	Good	NO	3	8	1	1	3	2	planted by homeowner in ROW		Yes
181	2	cypress, Leyland	x Cupressocyparis leylandii	75%	Good	NO	3	8	1	1	3	2	planted by homeowner in ROW		
182	2	cypress, Leyland	x Cupressocyparis leylandii	75%	Good	NO	3	6	1	1	3	2	planted by homeowner in ROW		
183	8,6	dogwood, flowering	Cornus florida	60%	Fair	NO	8	14	2	5	15	2		Co-DominantStems, InclBark/WeakUnion, BrokenLimbs, SmallDW(1-2")	
184	10,7,6	maple, Japanese	Acer palmatum	60%	Fair	NO	8	14	3	6	20	2		Co-DominantStems, InclBark/WeakUnion	
185	14	blackgum	Nyssa sylvatica	60%	Fair	NO	10	44	1	6	21	2		RootDamage/Decay, CompactedSoils, OverheadUtilities, SmallDW(1-2"), OneSided	Yes
186	5,4,4,4,3, 3	dogwood, Kousa	Cornus kousa	65%	Good	NO	5	16	6	4	14	2		CompactedSoils, OverheadUtilities, Co-DominantStems, SmallDW(1-2"), BrokenLimbs, RootDamage/Decay	Yes
187	6	dogwood, flowering	Cornus florida	70%	Good	NO	4	10	1	3	9	2		CompactedSoils, OverheadUtilities	Yes
188	5	dogwood, flowering	Cornus florida	70%	Good	NO	5	12	1	2	8	2		RootDamage/Decay, CompactedSoils, OverheadUtilities, BrokenLimbs	Yes
189	3	dogwood, flowering	Cornus florida	60%	Fair	NO	3	8	1	1	5	2		BuriedRootCollar, CompactedSoils, OverheadUtilities, Co-DominantStems, InclBark/WeakUnion	Yes
190	19	spruce, Norway	Picea abies	65%	Good	NO	10	50	1	9	29	2		Co-DominantStems	
191	17,10,15	pear, Callery	Pyrus calleryana	50%	Fair	NO	16	66	3	11	37	2	planted by homeowner, trunk cavity 6"x12"x3"	RootDamage/Decay, CompactedSoils, Co-DominantStems, InclBark/WeakUnion, BrokenLimbs, SmallDW(1-2"), TrunkDecay	
192	26	pear, Callery	Pyrus calleryana	25%	Poor	NO	16	66	1	12	39	4	trunk cracked @5' 12""; planted by homeowner; past failure	TrunkDecay, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), FungalFruitingBodies, CompactedSoils, User2(makenote)	
193	17,19	pear, Callery	Pyrus calleryana	40%	Poor	NO	16	66	2	11	38	3	gr 2""x14""; past failure	Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), LargeDW(3+), TrunkDecay, OverheadUtilities, GirdlingRootCollarnotesize, CompactedSoils	
194	10	pine, eastern white	Pinus strobus	65%	Good	NO	9	40	1	5	15	2		OverheadUtilities, CompactedSoils, OneSided	Yes
195	4,5,6	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	10	30	3	4	13	2		Co-DominantStems, CompactedSoils, OverheadUtilities	
197	46	maple, silver	Acer saccharinum	50%	Fair	NO	18	76	1	21	69	2	large pruning cuts	LargeDW(3+), SmallDW(1-2"), Vines, Co-DominantStems, CompactedSoils, OverheadUtilities	
198	21	maple, Norway	Acer platanoides	60%	Fair	NO	12	48	1	9	32	2	med-large pruning wounds	RootDamage/Decay, CompactedSoils, Co-DominantStems, SmallDW(1-2")	
199	18	redcedar, eastern	Juniperus virginiana	65%	Good	NO	10	42	1	8	27	2		CompactedSoils, LargeDW(3+), SmallDW(1-2")	
200	5,5	mulberry, white	Morus alba	55%	Fair	NO	6	20	2	3	11	3		Co-DominantStems, ExcessiveLean, OneSided, SmallDW(1-2"), Vines, OverheadUtilities	Yes
201	26	maple, red	Acer rubrum	60%	Fair	NO	14	70	1	12	39	2	trunk cav. at6' 3""x6""x3""	OverheadUtilities, CompactedSoils, TrunkDecay, ExcessiveLean	
202	10,15	cherry, black	Prunus serotina	45%	Fair	NO	10	26	2	8	27	3		Co-DominantStems, CompactedSoils, OverheadUtilities, ExcessiveLean, BrokenLimbs, LowVigor	
203	35	maple, silver	Acer saccharinum	60%	Fair	NO	20	72	1	16	53	2		Co-DominantStems, CompactedSoils, OverheadUtilities, SmallDW(1-2"), BrokenLimbs, LargeDW(3+)	
204	21	maple, red	Acer rubrum	65%	Good	NO	16	68	1	9	32	2		SmallDW(1-2"), LargeDW(3+), CompactedSoils, OverheadUtilities	
205	23	maple, red	Acer rubrum	60%	Fair	NO	10	50	1	10	35	2	trunk cavity @2' 2""x3""x6""	TrunkDecay, CompactedSoils, OverheadUtilities, Co-DominantStems, SmallDW(1-2"), LargeDW(3+)	
206	52	maple, silver	Acer saccharinum	35%	Poor	NO	18	60	1	23	78	3	prvious branch failure~ 16""dia.	LargeDW(3+), SmallDW(1-2"), Co-DominantStems, RootDamage/Decay, Hardware, BrokenLimbs, BranchDecay	
207	4	willow, weeping	Salix babylonica	70%	Good	NO	4	10	1	2	6	2	homeowner will remove	CompactedSoils, OverheadUtilities	Yes
208	19	willow, weeping	Salix babylonica	50%	Fair	NO	9	20	1	9	29	2	debris surrounding trunk; homeowner will remove; heading cuts	OverheadUtilities, CompactedSoils	Yes
209	6	willow, weeping	Salix babylonica	70%	Good	NO	5	12	1	3	9	2	hpmeowner will remove	OverheadUtilities, CompactedSoils	Yes
210	8	willow, weeping	Salix babylonica	70%	Good	NO	8	18	1	4	12	2	homeowner will remove	OverheadUtilities, CompactedSoils	Yes
211	29	pine, eastern white	Pinus strobus	60%	Fair	NO	10	56	1	13	44	2		OverheadUtilities, OneSided, CompactedSoils, LargeDW(3+), SmallDW(1-2")	
212	12	cherry, black	Prunus serotina	30%	Poor	NO	7	14	1	5	18	3		OverheadUtilities, Vines, CompactedSoils, BrokenLimbs, Stressed	
213	48	oak, northern red	Quercus rubra	70%	Good	NO	18	70	1	22	72	2	gr 1""x12""	OneSided, CompactedSoils, OverheadUtilities, GirdlingRootCollarnotesize, SmallDW(1-2")	
214	30	beech, American	Fagus grandifolia	65%	Good	NO	16	60	1	14	45	2	gr 3""x26""	CompactedSoils, GirdlingRootCollarnotesize, RootDamage/Decay, TrunkDecay, SmallDW(1-2"), Co-DominantStems	
215	4,4	dogwood, flowering	Cornus florida	65%	Good	NO	3	10	2	3	8	2		Co-DominantStems, InclBark/WeakUnion, BrokenLimbs	Yes
216	4,3,3,2	smoketree, European	Cotinus coggygria	65%	Good	NO	5	10	4	3	9	2	heading cuts	OverheadUtilities, CompactedSoils, ExcessiveLean	Yes
217	3,4	dogwood, flowering	Cornus florida	40%	Poor	NO	3	10	2	2	8	2		OverheadUtilities, CompactedSoils, SmallDW(1-2"), Co-DominantStems, TrunkDecay	Yes
218	2,2,1,1	smoketree, European	Cotinus coggygria	60%	Fair	NO	2	8	4	1	5	2	heading cuts	OverheadUtilities, CompactedSoils	Yes
219	16	cherry, sweet	Prunus avium	65%	Good	NO	13	22	1	7	24	2	heading cuts	OverheadUtilities, CompactedSoils, BrokenLimbs, SmallDW(1-2")	Yes
220	7,3,3,2	redbud, eastern	Cercis canadensis	60%	Fair	NO	3	12	4	4	13	2		Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, SmallDW(1-2")	Yes
221	24,24	maple, silver	Acer saccharinum	60%	Fair	NO	20	72	2	15	51	2		Co-DominantStems, OverheadUtilities, InclBark/WeakUnion, SmallDW(1-2")	
222	9	Kentucky coffeetree	Gymnocladus dioicus	60%	Fair	NO	8	22	1	4	14	2		OneSided, OverheadUtilities, SmallDW(1-2")	
223	14	cherry, black	Prunus serotina	20%	Critical	NO	10	48	1	6	21	4	heading cuts; uprooting	ExcessiveLean, SmallDW(1-2"), CompactedSoils, User2(makenote)	
224	16	blackgum	Nyssa sylvatica	70%	Good	NO	14	58	1	7	24	2		Vines, SmallDW(1-2")	
225	10	Kentucky coffeetree	Gymnocladus dioicus	75%	Good	NO	10	20	1	5	15	2		RootDamage/Decay, CompactedSoils	
226	8	Kentucky coffeetree	Gymnocladus dioicus	65%	Good	NO	10	16	1	4	12	2		CompactedSoils, Co-DominantStems	
227	9	Kentucky coffeetree	Gymnocladus dioicus	60%	Fair	NO	10	16	1	4	14	2		CompactedSoils, Co-DominantStems, InclBark/WeakUnion	
228	8	Kentucky coffeetree	Gymnocladus dioicus	70%	Good	NO	6	14	1	4	12	2		CompactedSoils	
229	4	oak, pin	Quercus palustris	75%	Good	NO	2	10	1	2	6	2		BuriedRootCollar, OverheadUtilities, CompactedSoils	
230	6	maple, red	Acer rubrum	70%	Good	NO	5	14	1	3	9	2		BuriedRootCollar, CompactedSoils	
231	4	maple, red	Acer rubrum	70%	Good	NO	3	14	1	2	6	2		CompactedSoils, BuriedRootCollar	
232	6	birch, river	Betula nigra	70%	Good	NO	5	14	1	3	9	2	from sidewalk	BuriedRootCollar, CompactedSoils	
233	5	maple, red	Acer rubrum	70%	Good	NO	4	18	1	2	8	2	from sidewalk	BuriedRootCollar, CompactedSoils	
234	4	persimmon, common	Diospyros virginiana	70%	Good	NO	4	16	1	2	6	2	from sidewalk	CompactedSoils, BuriedRootCollar	
235	6	maple, red	Acer rubrum	70%	Good	NO	5	18	1	3	9	2		CompactedSoils, BuriedRootCollar	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(15)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(15)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
236	1	cherry, sweet	Prunus avium	70%	Good	NO	1	2	1	0	2	2	from sidewalk	CompactedSoils, BuriedRootCollar	
237	3	redcedar, eastern	Juniperus virginiana	70%	Good	NO	2	8	1	1	5	2	from sidewalk	CompactedSoils, BuriedRootCollar	
238	3	redcedar, eastern	Juniperus virginiana	70%	Good	NO	2	8	1	1	5	2	from sidewalk	CompactedSoils, BuriedRootCollar	
239	3	redcedar, eastern	Juniperus virginiana	70%	Good	NO	2	8	1	1	5	2	from sidewalk	CompactedSoils, BuriedRootCollar	
240	1,1,1,1	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	1	6	4	1	3	2	from sidewalk	CompactedSoils, Co-DominantStems, BuriedRootCollar	
241	1,1,1	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	1	6	3	1	3	2	from sidewalk	CompactedSoils, BuriedRootCollar, Co-DominantStems	
242	3	cherry, sweet	Prunus avium	70%	Good	NO	2	8	1	1	5	2	from sidewalk	CompactedSoils	
243	1,1,1	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	1	6	3	1	3	2	from sidewalk	Co-DominantStems, CompactedSoils, BuriedRootCollar	
244	2,2,1,2	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	2	6	4	2	5	2	from sidewalk	Co-DominantStems	
245	3,2,2	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	2	6	3	2	6	2	from sidewalk	Co-DominantStems	
246	22	redcedar, eastern	Juniperus virginiana	70%	Good	NO	10	56	1	10	33	2		FullCrown, Vines, OverheadUtilities	
247	18	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	10	56	1	8	27	2	pruned for clearance	FullCrown, OverheadUtilities, SmallDW(1-2"), Vines	
248	9	maple, red	Acer rubrum	40%	Poor	NO	8	34	1	4	14	3		OverheadUtilities, Vines, SeriousDecline, LargeDW(3+), SmallDW(1-2")	Yes
249	14	zelkova, Japanese	Zelkova serrata	50%	Fair	NO	12	38	1	6	21	2	from sidewalk	CompactedSoils, OverheadUtilities, Vines, LargeDW(3+), SmallDW(1-2")	
250	16	maple, red	Acer rubrum	65%	Good	NO	13	58	1	7	24	2	from sidewalk	OverheadUtilities, CompactedSoils, SmallDW(1-2")	
251	8,7	mulberry, white	Morus alba	55%	Fair	NO	9	24	2	5	16	3	from sidewalk	Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), CompactedSoils	
252	8	maple, red	Acer rubrum	65%	Good	NO	10	40	1	4	12	2	from sidewalk	OverheadUtilities, CompactedSoils, SmallDW(1-2")	
253	6	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	5	28	1	3	9	3	gr 1""x6""	GirdlingRootCollarnotesize, Vines, OverheadUtilities, OneSided	
254	36	magnolia, southern	Magnolia grandiflora	70%	Good	NO	18	60	1	16	54	2	from sidewalk	FullCrown, BuriedRootCollar, RootDamage/Decay, OverheadUtilities	
255	9,9	redcedar, eastern	Juniperus virginiana	30%	Poor	NO	7	26	2	6	19	3	broken leader	SmallDW(1-2"), LargeDW(3+), OverheadUtilities, CompactedSoils, Suppressed	
256	15	redcedar, eastern	Juniperus virginiana	45%	Fair	NO	9	26	1	7	23	2		CompactedSoils, OverheadUtilities, Co-DominantStems, Suppressed, NarrowCrown	
257	7	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	5	16	1	3	11	3		CompactedSoils, OverheadUtilities, Suppressed, SmallDW(1-2"), LowVigor, NarrowCrown	
258	14	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	7	24	1	6	21	2		NarrowCrown, Suppressed, CompactedSoils, OverheadUtilities, Co-DominantStems	
259	9	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	7	26	1	4	14	3	upright branches	NarrowCrown, Suppressed, OverheadUtilities, CompactedSoils, SmallDW(1-2"), Co-DominantStems	
261	12	redcedar, eastern	Juniperus virginiana	35%	Poor	NO	4	18	1	5	18	3		NarrowCrown, Suppressed, OverheadUtilities, CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
262	11	redcedar, eastern	Juniperus virginiana	30%	Poor	NO	6	20	1	5	17	3		CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	
263	10	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	6	20	1	5	15	2		CompactedSoils, Suppressed, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), BuriedRootCollar	
264	5,4	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	6	20	2	3	10	2		Suppressed, CompactedSoils, OverheadUtilities, Co-DominantStems, SmallDW(1-2")	
265	8,5	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	5	20	2	4	14	2		Co-DominantStems, InclBark/WeakUnion, Suppressed, OverheadUtilities, CompactedSoils, SmallDW(1-2")	
266	6	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	6	18	1	3	9	2		CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2")	
267	30,28,20, 27	maple, silver	Acer saccharinum	40%	Poor	NO	10	68	4	24	80	3	from sidewalk	Co-DominantStems, SmallDW(1-2"), OverheadUtilities, LargeDW(3+), BasalDecay, FungalFruitingBodies, TrunkDecay	
268	30	maple, silver	Acer saccharinum	50%	Fair	NO	22	70	1	14	45	2		CompactedSoils, BrokenLimbs, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	
269	10	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	6	22	1	5	15	2		OneSided, SmallDW(1-2"), Suppressed, CompactedSoils, OverheadUtilities	
270	8	redcedar, eastern	Juniperus virginiana	45%	Fair	NO	5	22	1	4	12	2		CompactedSoils, Suppressed, OverheadUtilities, NarrowCrown, OneSided, SmallDW(1-2")	
271	5,6	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	5	22	2	4	12	3		OneSided, Suppressed, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), OverheadUtilities, NarrowCrown	
272	5	redcedar, eastern	Juniperus virginiana	35%	Poor	NO	2	16	1	2	8	3		NarrowCrown, Suppressed, CompactedSoils, OverheadUtilities, SmallDW(1-2"), LowVigor	
273	7	redcedar, eastern	Juniperus virginiana	35%	Poor	NO	5	20	1	3	11	3		OneSided, Suppressed, OverheadUtilities, CompactedSoils, LowVigor, Vines, NarrowCrown	
274	7	redcedar, eastern	Juniperus virginiana	45%	Fair	NO	5	20	1	3	11	2		OneSided, CompactedSoils, SmallDW(1-2"), Suppressed, OverheadUtilities, Vines, NarrowCrown	
275	7	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	5	20	1	3	11	2		CompactedSoils, Suppressed, OverheadUtilities, NarrowCrown	
276	7	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	5	20	1	3	11	3		OneSided, Suppressed, CompactedSoils, OverheadUtilities, SmallDW(1-2"), NarrowCrown	
277	7	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	5	20	1	3	11	3		CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2"), Vines, NarrowCrown	
278	9	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	5	22	1	4	14	3	phototropic lean	OneSided, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2"), Vines, NarrowCrown	
279	4	redcedar, eastern	Juniperus virginiana	45%	Fair	NO	3	12	1	2	6	2		Suppressed, CompactedSoils, OneSided, OverheadUtilities, SmallDW(1-2"), Stressed, NarrowCrown	
280	7	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	5	20	1	3	11	2		CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2"), Vines	
281	8	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	8	20	1	4	12	2		NarrowCrown, OverheadUtilities, Suppressed, CompactedSoils, SmallDW(1-2")	
282	7	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	8	20	1	3	11	2		NarrowCrown, Suppressed, CompactedSoils, SmallDW(1-2"), OverheadUtilities	
283	6,3	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	8	20	2	3	10	3		Co-DominantStems, InclBark/WeakUnion, CompactedSoils, Suppressed, ExcessiveLean, SmallDW(1-2"), OverheadUtilities	
284	6,3	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	8	20	2	3	10	2		NarrowCrown, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2"), InclBark/WeakUnion, Co-DominantStems	
285	6	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	8	20	1	3	9	2		NarrowCrown, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2")	
286	8	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	8	20	1	4	12	2		NarrowCrown, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2")	
287	4	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	6	16	1	2	6	2		Suppressed, OverheadUtilities, CompactedSoils, SmallDW(1-2"), NarrowCrown	
288	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	2	8	2		Suppressed, NarrowCrown, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
289	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	2	8	2		NarrowCrown, Suppressed, OverheadUtilities, SmallDW(1-2")	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(16)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(16)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
290	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	2	8	2		CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2"), NarrowCrown	
291	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	2	8	2		NarrowCrown, Suppressed, CompactedSoils, SmallDW(1-2"), OverheadUtilities	
292	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	2	8	2		NarrowCrown, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2")	
293	4	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	16	1	2	6	2		NarrowCrown, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2")	
294	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	2	8	2		NarrowCrown, Suppressed, CompactedSoils, SmallDW(1-2"), OverheadUtilities	
295	6	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	8	18	1	3	9	2		Suppressed, NarrowCrown, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
296	7	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	8	18	1	3	11	2		NarrowCrown, Suppressed, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
297	4	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	16	1	2	6	2		CompactedSoils, NarrowCrown, Suppressed, OverheadUtilities, SmallDW(1-2")	
298	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	18	1	2	8	2		NarrowCrown, Suppressed, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
299	4,3	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	6	16	2	2	8	2		NarrowCrown, Suppressed, OverheadUtilities, SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	
300	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	18	1	2	8	2		NarrowCrown, CompactedSoils, Suppressed, OverheadUtilities, SmallDW(1-2")	
301	4	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	16	1	2	6	2		Suppressed, NarrowCrown, CompactedSoils, SmallDW(1-2"), OverheadUtilities	
302	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	18	1	2	8	2		Suppressed, NarrowCrown, OverheadUtilities, SmallDW(1-2"), CompactedSoils	
303	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	16	1	2	8	2		Suppressed, NarrowCrown, CompactedSoils, SmallDW(1-2"), OverheadUtilities	
304	25	elm, Siberian	Ulmus pumila	50%	Fair	NO	20	66	1	11	38	3		Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), OverheadUtilities, CompactedSoils, Vines, LargeDW(3+)	
305	5	ZZ Unknown dead tree	ZZ Unknown dead tree	0%	Dead	YES	2	12	1	2	8	4		LargeDW(3+), SmallDW(1-2"), OverheadUtilities	
306	10,10	mulberry, white	Morus alba	40%	Poor	NO	15	40	2	6	21	3		SmallDW(1-2"), LargeDW(3+), CompactedSoils, OverheadUtilities, Vines, SeriousDecline, Co-DominantStems, InclBark/WeakUnion	
307	6	mulberry, white	Morus alba	50%	Fair	NO	9	20	1	3	9	2	unable to view crown	Suppressed, Vines, CompactedSoils, OverheadUtilities	
308	9	ZZ Unknown dead tree	ZZ Unknown dead tree	0%	Dead	YES	5	18	1	4	14	4		LargeDW(3+), SmallDW(1-2"), OverheadUtilities	Yes
309	7	mulberry, white	Morus alba	60%	Fair	NO	6	18	1	3	11	3		Vines, CompactedSoils, Suppressed, SmallDW(1-2"), OverheadUtilities	
310	24	elm, Siberian	Ulmus pumila	40%	Poor	NO	15	30	1	11	36	3	dead lead	OverheadUtilities, Vines, FungalFruitingBodies, InclBark/WeakUnion, Co-DominantStems	
311	7,7,7,5	mulberry, white	Morus alba	60%	Fair	NO	8	16	4	6	20	2		OverheadUtilities, Vines, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), BranchDecay	
312	7	mulberry, white	Morus alba	60%	Fair	NO	8	14	1	3	11	2		OverheadUtilities, Vines, SmallDW(1-2")	
313	3,2,1	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	8	3	2	6	2		CompactedSoils, SmallDW(1-2"), OverheadUtilities, InclBark/WeakUnion, Co-DominantStems	
314	2,2,2	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	8	3	2	5	2		SmallDW(1-2"), OverheadUtilities, CompactedSoils, Co-DominantStems, InclBark/WeakUnion	
315	3,2,2,2	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	4	2	7	2		OverheadUtilities, CompactedSoils, Co-DominantStems, InclBark/WeakUnion	
316	3,3,3,1,1	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	5	2	8	2		OverheadUtilities, CompactedSoils, Co-DominantStems, InclBark/WeakUnion	
317	4,3,2	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	3	2	8	2		SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion, CompactedSoils, OverheadUtilities	
318	2,2,2,1,1	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	5	2	6	2		OverheadUtilities, Co-DominantStems, InclBark/WeakUnion, CompactedSoils, SmallDW(1-2")	
319	2,2,2,1,1, 1	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	6	2	6	2		CompactedSoils, OverheadUtilities, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2")	
320	3,2	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	2	2	5	2		Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), CompactedSoils, OverheadUtilities	
321	3,2,1	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	3	2	6	2		Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, CompactedSoils	
322	3,2	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	2	2	5	2		CompactedSoils, InclBark/WeakUnion, Co-DominantStems, OverheadUtilities	
323	2,2,	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	2	1	4	2		CompactedSoils, InclBark/WeakUnion, Co-DominantStems, OverheadUtilities, OneSided	
324	2,1	arborvitae, eastern	Thuja occidentalis	30%	Poor	NO	1	8	2	1	3	3		SmallDW(1-2"), SeriousDecline, Stressed, Suppressed, LowVigor, OverheadUtilities	
325	2,2,1,1	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	2	10	4	1	5	2		OverheadUtilities, CompactedSoils, InclBark/WeakUnion, Co-DominantStems	
326	13,13,9	chestnut, Chinese	Castanea mollissima	65%	Good	NO	16	68	3	9	31	2		Co-DominantStems, SmallDW(1-2"), LargeDW(3+)	
327	46	maple, silver	Acer saccharinum	60%	Fair	NO	18	68	1	21	69	2	lmted rooting space	InclBark/WeakUnion, Co-DominantStems, CompactedSoils, SmallDW(1-2")	
328	5	cherry, sweet	Prunus avium	45%	Fair	NO	7	16	1	2	8	3	from sidewalk	ExcessiveLean, Vines, Stressed, SmallDW(1-2")	
329	28	chestnut, Chinese	Castanea mollissima	55%	Fair	NO	18	68	1	13	42	2	from sidewalk	OverheadUtilities, Vines, LargeDW(3+), SmallDW(1-2"), BrokenLimbs	Yes
330	24	pecan	Carya illinoinensis	65%	Good	NO	17	66	1	11	36	2		OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	Yes
331	7,5	mulberry, white	Morus alba	55%	Fair	NO	6	14	2	4	13	3	mid-large pruning cuts	OverheadUtilities, CompactedSoils	
332	15	elm, slippery	Ulmus rubra	65%	Good	NO	10	50	1	7	23	2		SmallDW(1-2"), OverheadUtilities, CompactedSoils	
333	8	mulberry, white	Morus alba	60%	Fair	NO	8	20	1	4	12	3		OverheadUtilities, SmallDW(1-2"), BrokenLimbs, CompactedSoils	
334	27	cherry, black	Prunus serotina	60%	Fair	NO	16	68	1	12	41	2		SmallDW(1-2"), LargeDW(3+), TrunkDecay, OverheadUtilities, Co-DominantStems	
335	25	pine, eastern white	Pinus strobus	65%	Good	NO	16	60	1	11	38	2		SmallDW(1-2"), OverheadUtilities, Co-DominantStems, LargeDW(3+)	
336	3,3,2	mulberry, white	Morus alba	60%	Fair	NO	4	12	3	2	7	2		Co-DominantStems, InclBark/WeakUnion, OverheadUtilities	
337	15	pine, eastern white	Pinus strobus	60%	Fair	NO	10	40	1	7	23	2		OverheadUtilities, SmallDW(1-2"), BrokenLimbs, Suppressed, OneSided	
338	6	holly, American	Ilex opaca	65%	Good	NO	6	14	1	3	9	2	from sidewalk	Suppressed, CompactedSoils, OverheadUtilities	
339	5	mulberry, white	Morus alba	65%	Good	NO	4	10	1	2	8	2	from sidewalk	CompactedSoils, Suppressed, OverheadUtilities	
340	30	pine spp.	Pinus spp.	0%	Dead	YES	13	14	1	14	45	4		LargeDW(3+)	Yes

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	2017

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	2017

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
341	4,2	mulberry, white	Morus alba	60%	Fair	NO	3	10	2	2	7	2	from sidewalk	CompactedSoils, OverheadUtilities, Vines, SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	
342	7	mulberry, white	Morus alba	60%	Fair	NO	6	10	1	3	11	2		Vines, CompactedSoils, Suppressed, SmallDW(1-2"), OverheadUtilities	Yes
343	24	pine, eastern white	Pinus strobus	10%	Critical	NO	12	36	1	11	36	4	broken leader	SeriousDecline, SmallDW(1-2"), LargeDW(3+), Vines, OverheadUtilities, CompactedSoils, RootDamage/Decay	Yes
344	5	mulberry, white	Morus alba	30%	Poor	NO	6	10	1	2	8	4		Vines, CompactedSoils, OverheadUtilities, SmallDW(1-2"), SeriousDecline	
345	25,25	pine, eastern white	Pinus strobus	60%	Fair	NO	18	66	2	16	53	2		InclBark/WeakUnion, Co-DominantStems, OverheadUtilities, RootDamage/Decay, LargeDW(3+), SmallDW(1-2")	
346	19,17	pine, eastern white	Pinus strobus	60%	Fair	NO	14	56	2	11	38	2		InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2")	
347	27	beech, American	Fagus grandifolia	60%	Fair	NO	16	88	1	12	41	2	limbed to 60'	OverheadUtilities	Yes
348	6	ash, green	Fraxinus pennsylvanica	15%	Critical	NO	3	16	1	3	9	4	spike wounds with paint	SmallDW(1-2"), SeriousDecline, LowVigor, OverheadUtilities	Yes
349	7	elm, slippery	Ulmus rubra	20%	Critical	NO	1	8	1	3	11	4	topped	OverheadUtilities, SeriousDecline	Yes
350	10	holly, American	Ilex opaca	65%	Good	NO	10	22	1	5	15	2		OverheadUtilities, SmallDW(1-2")	Yes
351	5,5,5,6	ash, green	Fraxinus pennsylvanica	35%	Poor	NO	4	16	4	5	16	3	topped; dead 5"" lead	Co-DominantStems, OverheadUtilities, InclBark/WeakUnion, LowVigor	Yes
352	6	ash, green	Fraxinus pennsylvanica	25%	Poor	NO	3	10	1	3	9	3	topped	OverheadUtilities, SmallDW(1-2")	Yes
353	5,3,3	mulberry, white	Morus alba	40%	Poor	NO	5	10	3	3	10	3	topped	Co-DominantStems, OverheadUtilities, CompactedSoils, SmallDW(1-2")	Yes
354	5,5	cherry, sweet	Prunus avium	25%	Poor	NO	5	10	2	3	11	3	topped	OverheadUtilities, SmallDW(1-2"), SeriousDecline, CompactedSoils, Co-DominantStems, InclBark/WeakUnion, Vines	Yes
355	5	elm, slippery	Ulmus rubra	20%	Critical	NO	3	8	1	2	8	3	topped	OverheadUtilities, SmallDW(1-2"), Suppressed, Stressed	Yes
356	20	magnolia, saucer	Magnolia x soulangiana	65%	Good	NO	16	56	1	9	30	2	sapsucker damage	RootDamage/Decay, Co-DominantStems, BasalDecay	
357	7	holly, American	Ilex opaca	65%	Good	NO	8	22	1	3	11	2		Co-DominantStems, SmallDW(1-2"), Suppressed	Yes
358	5,5	mulberry, white	Morus alba	40%	Poor	NO	3	10	2	3	11	3	broken leader w sprouts	Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, BranchDecay, TrunkDecay	Yes
359	7	cherry, black	Prunus serotina	20%	Critical	NO	3	10	1	3	11	3	topped	OverheadUtilities, SeriousDecline, SmallDW(1-2"), Vines	Yes
360	46	tuliptree	Liriodendron tulipifera	60%	Fair	NO	18	90	1	21	69	2	lrg heading cuts	LargeDW(3+), SmallDW(1-2"), OverheadUtilities	Yes
361	32	oak, white	Quercus alba	65%	Good	NO	18	90	1	14	48	2	upright stem	RootDamage/Decay, CompactedSoils, SmallDW(1-2")	
362	24	oak, southern red	Quercus falcata	65%	Good	NO	12	80	1	11	36	2		Co-DominantStems, OverheadUtilities, LargeDW(3+), SmallDW(1-2")	Yes
363	12,10,9	maple, red	Acer rubrum	30%	Poor	NO	9	30	3	8	27	3	assessed from 15' due to leaf pile blocking access; topped	Co-DominantStems, OverheadUtilities, InclBark/WeakUnion, SmallDW(1-2")	Yes
364	8	blackgum	Nyssa sylvatica	30%	Poor	NO	3	20	1	4	12	3	topped	SmallDW(1-2"), CompactedSoils, OneSided, LowVigor, OverheadUtilities	Yes
365	17	tuliptree	Liriodendron tulipifera	50%	Fair	NO	10	50	1	8	26	3		ExcessiveLean, SmallDW(1-2"), OverheadUtilities, CompactedSoils, OneSided	Yes
366	12	maple, red	Acer rubrum	40%	Poor	NO	10	30	1	5	18	3	pollarding	CompactedSoils, SmallDW(1-2"), Stressed	Yes
367	11	oak, willow	Quercus phellos	70%	Good	NO	8	40	1	5	17	2		SmallDW(1-2"), Vines	
368	11	oak, willow	Quercus phellos	70%	Good	NO	8	42	1	5	17	2		SmallDW(1-2"")	
369	11	oak, willow	Quercus phellos	75%	Good	NO	8	40	1	5	17	2		SmallDW(1-2"")	
370	10,10,3,3,10	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	9	30	5	8	27	2		Co-DominantStems, InclBark/WeakUnion, FullCrown, SmallDW(1-2"), LargeDW(3+)	
371	11	oak, willow	Quercus phellos	70%	Good	NO	6	40	1	5	17	2		SmallDW(1-2"")	
372	12	oak, willow	Quercus phellos	70%	Good	NO	6	42	1	5	18	2		SmallDW(1-2"")	
373	12	oak, willow	Quercus phellos	70%	Good	NO	7	40	1	5	18	2		SmallDW(1-2"")	
374	13	oak, willow	Quercus phellos	70%	Good	NO	8	42	1	6	20	2	poor pruning cuts	CompactedSoils, SmallDW(1-2"), MechanicalDamage, BuriedRootCollar	
375	17	planetree, London	Platanus x hispanica	70%	Good	NO	15	56	1	8	26	2	trunk wounds inline to 5' with woundwood	SmallDW(1-2"), CompactedSoils	
376	12,12,13	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	9	30	3	10	32	2	sapsucker damage	CompactedSoils, Co-DominantStems	
377	9,6	cypress, Leyland	x Cupressocyparis leylandii	10%	Critical	NO	3	14	2	5	16	3	root plate failure,	CompactedSoils, ExcessiveLean, SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	
378	14,13,7	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	11	30	3	9	31	2		InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2"), CompactedSoils	
379	11,8	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	11	32	2	6	20	2		CompactedSoils, InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2")	
380	10	pine, eastern white	Pinus strobus	60%	Fair	NO	5	30	1	5	15	2		CompactedSoils, SmallDW(1-2"), Suppressed	
381	11	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	10	30	1	5	17	2		CompactedSoils, Co-DominantStems, SmallDW(1-2")	
382	13	planetree, London	Platanus x hispanica	70%	Good	NO	12	40	1	6	20	2	limited rooting space	User1(makenote)	
383	10	pine, eastern white	Pinus strobus	65%	Good	NO	8	30	1	5	15	2		CompactedSoils, SmallDW(1-2")	
384	6	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	6	24	1	3	9	2	many bassl branches	CompactedSoils, SmallDW(1-2")	
385	6	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	7	20	1	3	9	2		CompactedSoils, SmallDW(1-2")	
386	7	cypress, Leyland	x Cupressocyparis leylandii	70%	Good	NO	6	20	1	3	11	2		SmallDW(1-2"), CompactedSoils	
387	6	pine, eastern white	Pinus strobus	60%	Fair	NO	5	18	1	3	9	2		SmallDW(1-2"), CompactedSoils, Suppressed, NarrowCrown	
388	8	pine, eastern white	Pinus strobus	60%	Fair	NO	6	28	1	4	12	2		CompactedSoils, NarrowCrown, Suppressed	
389	17	pine, eastern white	Pinus strobus	70%	Good	NO	10	40	1	8	26	2		CompactedSoils, SmallDW(1-2")	
390	16	pine, eastern white	Pinus strobus	70%	Good	NO	10	36	1	7	24	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	
391	18	planetree, London	Platanus x hispanica	70%	Good	NO	13	58	1	8	27	2	lmted rooting space	RootDamage/Decay	
392	16	pine, eastern white	Pinus strobus	65%	Good	NO	6	28	1	7	24	2		CompactedSoils, RootDamage/Decay, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	
393	18	pine, eastern white	Pinus strobus	65%	Good	NO	9	34	1	8	27	2		CompactedSoils, RootDamage/Decay, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	
394	12	pine, eastern white	Pinus strobus	65%	Good	NO	6	30	1	5	18	2		SmallDW(1-2"), LargeDW(3+), CompactedSoils, OverheadUtilities	
395	16	pine, eastern white	Pinus strobus	60%	Fair	NO	9	34	1	7	24	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+), Suppressed, OverheadUtilities	
396	17,15	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	10	36	2	10	34	2		Co-DominantStems, CompactedSoils, OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	
397	15,12	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	10	34	2	9	29	2		InclBark/WeakUnion, Co-DominantStems, CompactedSoils, OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	
398	12	pine, eastern white	Pinus strobus	0%	Dead	YES	5	22	1	5	18	4		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
399	9	pine spp.	Pinus spp.	0%	Dead	YES	3	14	1	4	14	4		CompactedSoils, LargeDW(3+), SmallDW(1-2")	
400	17	pine, eastern white	Pinus strobus	65%	Good	NO	6	40	1	8	26	2		OverheadUtilities, CompactedSoils, SmallDW(1-2"), LargeDW(3+), Suppressed	
401	17,17	cypress, Leyland	x Cupressocyparis leylandii	70%	Good	NO	11	38	2	11	36	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	
402	14	pine, eastern white	Pinus strobus	45%	Fair	NO	5	28	1	6	21	2	possibly tree 949 collected by alex bailey	CompactedSoils, LargeDW(3+), SmallDW(1-2"), OverheadUtilities, Suppressed, LowVigor, Stressed	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(18)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(18)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
403	18	cypress, Leyland	x Cupressocyparis leylandii	50%	Fair	NO	10	50	1	8	27	2	possibly tree 950 collected by alex bailey	CompactedSoils, OverheadUtilities, SmallDW(1-2"), LargeDW(3+), TrunkDecay, Stressed	
404	21	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	12	50	1	9	32	2	possibly tree 951 collected by alex bailey	CompactedSoils, SmallDW(1-2"), OverheadUtilities, Co-DominantStems, InclBark/WeakUnion	
405	13	pine, eastern white	Pinus strobus	60%	Fair	NO	10	42	1	6	20	2	possibly tree 952 collected by alex bailey	CompactedSoils, SmallDW(1-2"), OverheadUtilities, LargeDW(3+), Suppressed	
406	31	beech, American	Fagus grandifolia	55%	Fair	NO	12	28	1	14	47	2		CompactedSoils, OverheadUtilities, BrokenLimbs, RootDamage/Decay, SmallDW(1-2"), Co-DominantStems	
407	32,32	tuliptree	Liriodendron tulipifera	70%	Good	NO	12	80	2	20	68	2	gr 1"x12", 2"x12", 2"x24"; tree 952 collected by alex bailey	Co-DominantStems, SmallDW(1-2"), LargeDW(3+), GirdlingRootCollamotesize, OverheadUtilities	
408	6	mulberry, white	Morus alba	70%	Good	NO	4	14	1	3	9	3		Hardware	
409	14	oak, willow	Quercus phellos	70%	Good	NO	9	30	1	6	21	2		SmallDW(1-2"), CompactedSoils	
410	22	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	10	33	2		RootDamage/Decay, SmallDW(1-2"), LargeDW(3+)	
411	25	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	11	38	2		SmallDW(1-2"), LargeDW(3+), CompactedSoils	
412	24	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	11	36	2		SmallDW(1-2"), LargeDW(3+)	
413	31	pine, eastern white	Pinus strobus	60%	Fair	NO	13	66	1	14	47	2		InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2"), LargeDW(3+)	
414	20	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	9	30	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
415	28	pine, eastern white	Pinus strobus	65%	Good	NO	12	60	1	13	42	2	upright branch 8""dia.	CompactedSoils, LargeDW(3+), SmallDW(1-2")	
416	24	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	11	36	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
417	23	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	10	35	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
418	31	pine, eastern white	Pinus strobus	60%	Fair	NO	13	64	1	14	47	2		Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), LargeDW(3+), CompactedSoils	
419	24	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	11	36	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
420	23	pine, eastern white	Pinus strobus	70%	Good	NO	12	60	1	10	35	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
421	39	pine, eastern white	Pinus strobus	60%	Fair	NO	14	66	1	18	59	2		CompactedSoils, Co-DominantStems, InclBark/WeakUnion, LargeDW(3+)	
422	3,2,2,1,1	serviceberry, downy	Amelanchier arborea	65%	Good	NO	2	10	5	2	7	2		CompactedSoils, Co-DominantStems	
423	3,3,2,2,1,1	serviceberry, downy	Amelanchier arborea	65%	Good	NO	2	10	6	2	8	2		CompactedSoils, Co-DominantStems	
424	3,3,2,2,2,1	serviceberry, downy	Amelanchier arborea	65%	Good	NO	2	10	6	3	8	2		CompactedSoils, Co-DominantStems	
425	38	pine, eastern white	Pinus strobus	65%	Good	NO	15	66	1	17	57	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+), Co-DominantStems	
426	20	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	11	58	1	9	30	2		CompactedSoils, OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	
427	21	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	13	58	1	9	32	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
428	21	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	10	50	1	9	32	2		CompactedSoils, SmallDW(1-2"), BrokenLimbs	
429	15	cypress, Leyland	x Cupressocyparis leylandii	70%	Good	NO	7	38	1	7	23	2		CompactedSoils, SmallDW(1-2")	
430	19	cypress, Leyland	x Cupressocyparis leylandii	70%	Good	NO	10	40	1	9	29	2		CompactedSoils, SmallDW(1-2")	
431	11	oak, willow	Quercus phellos	70%	Good	NO	7	36	1	5	17	2		CompactedSoils, SmallDW(1-2"), OverheadUtilities	
432	4,4,4,4	oak, willow	Quercus phellos	30%	Poor	NO	5	8	4	4	12	3		InclBark/WeakUnion, Co-DominantStems, OverheadUtilities, CompactedSoils, SmallDW(1-2"), LargeDW(3+), SeriousDecline	
433	12	oak, willow	Quercus phellos	70%	Good	NO	9	46	1	5	18	2		CompactedSoils, SmallDW(1-2"), OverheadUtilities	
434	23	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	10	48	1	10	35	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	
435	19,15,12	cypress, Leyland	x Cupressocyparis leylandii	55%	Fair	NO	12	42	3	12	41	2		CompactedSoils, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2")	
436	14	cypress, Leyland	x Cupressocyparis leylandii	50%	Fair	NO	10	40	1	6	21	3		CompactedSoils, InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2"), OneSided	
437	16,10	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	10	42	2	8	28	2		CompactedSoils, OverheadUtilities, InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2")	
438	21	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	10	44	1	9	32	2		CompactedSoils, SmallDW(1-2")	
439	10,10,14	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	10	40	3	9	30	2		CompactedSoils, InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	
440	13	cypress, Leyland	x Cupressocyparis leylandii	65%	Good	NO	6	28	1	6	20	2		CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
441	15,13	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	10	40	2	9	30	2		CompactedSoils, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	
442	10,9,21	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	10	40	3	11	37	2	sapsucker damage	InclBark/WeakUnion, Co-DominantStems, CompactedSoils	
443	13,13	cypress, Leyland	x Cupressocyparis leylandii	60%	Fair	NO	11	42	2	8	28	2		CompactedSoils, OverheadUtilities, InclBark/WeakUnion, Co-DominantStems, SmallDW(1-2")	
444	10	serviceberry, Allegheny	Amelanchier laevis	70%	Good	NO	6	30	1	5	15	2		CompactedSoils, OverheadUtilities	
445	8	serviceberry, Allegheny	Amelanchier laevis	70%	Good	NO	5	28	1	4	12	2		CompactedSoils, OverheadUtilities	
446	16	spruce, Norway	Picea abies	45%	Fair	NO	11	50	1	7	24	3		SmallDW(1-2"), CompactedSoils, OverheadUtilities, LargeDW(3+), LowVigor, Co-DominantStems	
447	35	maple, red	Acer rubrum	60%	Fair	NO	15	66	1	16	53	2	from sidewalk	RootDamage/Decay, BrokenLimbs, LargeDW(3+), SmallDW(1-2"), Co-DominantStems, OverheadUtilities	
448	10	holly, American	Ilex opaca	60%	Fair	NO	6	40	1	5	15	2		OverheadUtilities, CompactedSoils, OneSided	
449	8	holly, American	Ilex opaca	70%	Good	NO	6	40	1	4	12	2		OverheadUtilities, CompactedSoils	
450	10	holly, American	Ilex opaca	65%	Good	NO	6	40	1	5	15	2		Co-DominantStems, CompactedSoils, OverheadUtilities	
451	6,5,4	holly, American	Ilex opaca	65%	Good	NO	6	40	3	4	13	2		CompactedSoils, OverheadUtilities, Co-DominantStems	
452	5	holly, American	Ilex opaca	65%	Good	NO	6	20	1	2	8	2		CompactedSoils, OverheadUtilities, Suppressed	
453	10,10,8	holly, American	Ilex opaca	60%	Fair	NO	6	40	3	7	24	2		Co-DominantStems, InclBark/WeakUnion, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
454	5,4	holly, American	Ilex opaca	55%	Fair	NO	5	20	2	3	10	3	bssal swelling	CompactedSoils, OverheadUtilities, Co-DominantStems, SmallDW(1-2")	
455	6,6	holly, American	Ilex opaca	65%	Good	NO	6	40	2	4	13	2		CompactedSoils, OverheadUtilities, Co-DominantStems	
456	10	holly, American	Ilex opaca	70%	Good	NO	6	40	1	5	15	2		CompactedSoils, OverheadUtilities	
457	10,9	holly, American	Ilex opaca	65%	Good	NO	6	40	2	6	20	2		CompactedSoils, OverheadUtilities, Co-DominantStems	
458	9	holly, American	Ilex opaca	65%	Good	NO	6	40	1	4	14	2	trunk gall	CompactedSoils, OverheadUtilities	
459	5,4	holly, American	Ilex opaca	65%	Good	NO	6	30	2	3	10	2		CompactedSoils, OverheadUtilities, Co-DominantStems, Suppressed	
460	10	holly, American	Ilex opaca	70%	Good	NO	6	40	1	5	15	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	
461	14	holly, American	Ilex opaca	60%	Fair	NO	6	42	1	6	21	2		CompactedSoils, OverheadUtilities, OneSided	
462	5	holly, American	Ilex opaca	45%	Fair	NO	4	16	1	2	8	3		CompactedSoils, OverheadUtilities, Suppressed, ExcessiveLean	
463	5	holly, American	Ilex opaca	60%	Fair	NO	4	20	1	2	8	2		Suppressed, CompactedSoils, OverheadUtilities	
464	9,8	holly, American	Ilex opaca	65%	Good	NO	6	40	2	5	18	2		Co-DominantStems, CompactedSoils, OverheadUtilities	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	201(9)

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	201(9)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
465	11	holly, American	Ilex opaca	60%	Fair	NO	6	40	1	5	17	2	broken leader;codom@25'	CompactedSoils, OverheadUtilities	
466	8	holly, American	Ilex opaca	65%	Good	NO	6	40	1	4	12	2		CompactedSoils, OverheadUtilities, Suppressed	
467	5	holly, American	Ilex opaca	65%	Good	NO	4	20	1	2	8	2		CompactedSoils, User2(makenote), Suppressed	
468	9	holly, American	Ilex opaca	65%	Good	NO	6	40	1	4	14	2		CompactedSoils, OverheadUtilities, Co-DominantStems, BrokenLimbs	
469	5	holly, American	Ilex opaca	70%	Good	NO	6	8	1	2	8	2		CompactedSoils, OverheadUtilities, BrokenLimbs, SmallDW(1-2")	
470	7	holly, American	Ilex opaca	55%	Fair	NO	5	30	1	3	11	2		CompactedSoils, OverheadUtilities, OneSided, Suppressed	
471	7	holly, American	Ilex opaca	60%	Fair	NO	5	34	1	3	11	2		CompactedSoils, OverheadUtilities, Suppressed	
472	7	holly, American	Ilex opaca	60%	Fair	NO	5	30	1	3	11	2		OverheadUtilities, CompactedSoils, Suppressed	
473	6	holly, American	Ilex opaca	65%	Good	NO	5	28	1	3	9	2		Suppressed, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
474	2,2,1,1,1	elm, Siberian	Ulmus pumila	40%	Poor	NO	2	12	5	1	5	3	previously removed; stump sprouts	CompactedSoils, OverheadUtilities	
475	2,2,1,1,2, 1	boxelder	Acer negundo	40%	Poor	NO	3	14	6	2	6	3	previoudly removed, stump sprouts	CompactedSoils, OverheadUtilities	Yes
476	3,3	pear, Callery	Pyrus calleryana	45%	Fair	NO	3	12	2	2	6	3		CompactedSoils, OverheadUtilities, Co-DominantStems, Vines, Suppressed	Yes
477	3,2,2,2,3	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	3	12	5	2	8	2	heading cuts	Co-DominantStems, OverheadUtilities, CompactedSoils	Yes
478	5,3,3,4,4	cherry, sweet	Prunus avium	60%	Fair	NO	7	20	5	4	13	2	from sidewalk	Co-DominantStems, InclBark/WeakUnion, CompactedSoils, OverheadUtilities	
479	5	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	5	14	1	2	8	2		OneSided, OverheadUtilities, CompactedSoils	
480	28	maple, red	Acer rubrum	45%	Fair	NO	10	36	1	13	42	3	from sidewalk; large heading cuts	OverheadUtilities, CompactedSoils, SeriousDecline, SmallDW(1-2"), LargeDW(3+), BranchDecay	
481	26	cherry, sweet	Prunus avium	40%	Poor	NO	10	26	1	12	39	3	from sidewalk	Co-DominantStems, InclBark/WeakUnion, LargeDW(3+), SmallDW(1-2"), CompactedSoils, OverheadUtilities	Yes
482	4,3,3,2,2	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	6	16	5	3	10	2		Co-DominantStems, OverheadUtilities, CompactedSoils	
483	4,4	mulberry, white	Morus alba	65%	Good	NO	4	20	2	3	8	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	
484	8	pear, Callery	Pyrus calleryana	55%	Fair	NO	8	20	1	4	12	3	large heading cuts; from sidewalk	CompactedSoils, OverheadUtilities	
485	5	dogwood, flowering	Cornus florida	65%	Good	NO	6	20	1	2	8	2	from sidewalk	CompactedSoils, OverheadUtilities	
486	4,4,4,4,5, 5,3	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	6	20	7	5	17	2	from sidewalk	Co-DominantStems, InclBark/WeakUnion, CompactedSoils, OverheadUtilities	
487	2,2,1,1,1	crapemyrtle, common	Lagerstroemia indica	50%	Fair	NO	2	12	5	1	5	2		Co-DominantStems, CompactedSoils, OverheadUtilities, Suppressed	
488	5,5,4,4,4, 3	crapemyrtle, common	Lagerstroemia indica	55%	Fair	NO	6	20	6	5	16	2	from sidewalk; heading cuts	CompactedSoils, OverheadUtilities, Co-DominantStems	
489	5,5,5,5,5, 5	crapemyrtle, common	Lagerstroemia indica	60%	Fair	NO	6	20	6	6	18	2	from sidewalk; heading cuts	CompactedSoils, OverheadUtilities, Co-DominantStems	
490	10,8	pear, Callery	Pyrus calleryana	40%	Poor	NO	10	24	2	6	19	3	from sidewalk; heading cuts, numerous sprouts	Stressed, CompactedSoils, OverheadUtilities, SmallDW(1-2")	Yes
491	5	pear, Callery	Pyrus calleryana	65%	Good	NO	4	18	1	2	8	2	from sidewalk	CompactedSoils, OverheadUtilities	Yes
492	23	boxelder	Acer negundo	25%	Poor	NO	5	18	1	10	35	4		SeriousDecline, CompactedSoils, OverheadUtilities, LargeDW(3+), SmallDW(1-2"), Insect/DiseaseProblem, LowVigor, BranchDecay, TrunkDecay, Co-DominantStems, BrokenLimbs	Yes
493	5	dogwood, flowering	Cornus florida	30%	Poor	NO	4	12	1	2	8	4		Vines, SeriousDecline, SmallDW(1-2"), LowVigor, CompactedSoils, OverheadUtilities	Yes
494	8	pear, Callery	Pyrus calleryana	40%	Poor	NO	6	18	1	4	12	3	from sidewalk; heading cuts, numerous sprouts	CompactedSoils, OverheadUtilities, SmallDW(1-2"), Co-DominantStems	Yes
495	10	boxelder	Acer negundo	40%	Poor	NO	7	30	1	5	15	3	from sidewalk	CompactedSoils, OverheadUtilities, BranchDecay, SmallDW(1-2"), LargeDW(3+)	Yes
496	18, 18	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	10	46	2	11	38	2	from sidewalk; numerous heading cuts	SmallDW(1-2"), LargeDW(3+), CompactedSoils, OverheadUtilities, Vines, Co-DominantStems, InclBark/WeakUnion	
497	6,6,3,3,5	photinia spp.	Photinia spp.	45%	Fair	NO	5	20	5	5	16	3	from sidewalk	Stressed, Vines, OverheadUtilities, LargeDW(3+), SmallDW(1-2"), CompactedSoils	
498	4,4,3,2	photinia spp.	Photinia spp.	45%	Fair	NO	5	20	4	3	10	3		LargeDW(3+), SmallDW(1-2"), Stressed, Vines, CompactedSoils	
499	3,4,5,3,3	photinia spp.	Photinia spp.	35%	Poor	NO	5	20	5	4	12	3		LargeDW(3+), SmallDW(1-2"), Vines, CompactedSoils, Stressed, Suppressed, SeriousDecline	
500	4,3,2,1,3	photinia spp.	Photinia spp.	30%	Poor	NO	4	16	5	3	9	3		Vines, Stressed, SeriousDecline, LowVigor, Suppressed, CompactedSoils	
501	10	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	6	24	1	5	15	2		Vines, CompactedSoils, SmallDW(1-2")	
502	11	elm, slippery	Ulmus rubra	65%	Good	NO	9	48	1	5	17	2		SmallDW(1-2"), CompactedSoils, LargeDW(3+)	
503	4,3,4,3,2, 3	photinia spp.	Photinia spp.	60%	Fair	NO	6	20	6	4	12	2		CompactedSoils, Vines, SmallDW(1-2")	
504	7	oak, willow	Quercus phellos	65%	Good	NO	6	24	1	3	11	2		CompactedSoils, Vines, SmallDW(1-2")	
505	10	redcedar, eastern	Juniperus virginiana	65%	Good	NO	6	26	1	5	15	2	from sidewalk	CompactedSoils, Vines, Co-DominantStems, SmallDW(1-2")	
506	3,3,3,2,5	photinia spp.	Photinia spp.	65%	Good	NO	6	20	5	3	11	2	from sidewalk	SmallDW(1-2"), Vines, CompactedSoils	
507	5	mulberry, white	Morus alba	65%	Good	NO	3	12	1	2	8	2		Vines, CompactedSoils, SmallDW(1-2")	
508	23	cherry, sweet	Prunus avium	40%	Poor	NO	10	32	1	10	35	3	numerous heading cuts; from sidewalk	CompactedSoils, SmallDW(1-2"), Vines, BranchDecay, SeriousDecline, FungalFruitingBodies	
509	5,3,3,3	photinia spp.	Photinia spp.	45%	Fair	NO	4	12	4	3	11	3	from sidewalk	CompactedSoils, Vines, LowVigor	
510	5	holly, American	Ilex opaca	70%	Good	NO	3	12	1	2	8	2	from sidewalk	Suppressed, CompactedSoils, Vines	
511	12	cryptomeria, Japanese	Cryptomeria japonica	70%	Good	NO	8	50	1	5	18	2	from sidewalk	OverheadUtilities, Vines, SmallDW(1-2"), CompactedSoils	
512	8	whitecedar, Atlantic	Chamaecyparis thyoides	40%	Poor	NO	8	18	1	4	12	3	from sidewalk	SmallDW(1-2"), OverheadUtilities, CompactedSoils, LargeDW(3+), SeriousDecline, Stressed, OneSided	
513	6	whitecedar, Atlantic	Chamaecyparis thyoides	40%	Poor	NO	6	16	1	3	9	3	from sidewalk	SmallDW(1-2"), Stressed, Suppressed, LowVigor, CompactedSoils, OverheadUtilities	
514	7	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	20	1	3	11	2	from sidewalk	OverheadUtilities, CompactedSoils, SmallDW(1-2"), BuriedRootCollar, Co-DominantStems	
515	9	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	7	22	1	4	14	2		SmallDW(1-2"), OverheadUtilities, CompactedSoils, Suppressed	
516	10	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	7	22	1	5	15	2	from sidewalk	SmallDW(1-2"), Suppressed, OverheadUtilities, CompactedSoils	
517	8	whitecedar, Atlantic	Chamaecyparis thyoides	45%	Fair	NO	5	16	1	4	12	3	from sidewalk	Suppressed, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), OverheadUtilities, CompactedSoils	
518	11	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	7	22	1	5	17	2	from sidewalk	SmallDW(1-2"), CompactedSoils, OverheadUtilities	
519	10	whitecedar, Atlantic	Chamaecyparis thyoides	65%	Good	NO	6	20	1	5	15	2		SmallDW(1-2"), OverheadUtilities, CompactedSoils, Suppressed	
520	10	whitecedar, Atlantic	Chamaecyparis thyoides	55%	Fair	NO	6	20	1	5	15	2		CompactedSoils, OverheadUtilities, SmallDW(1-2"), Suppressed, Co-DominantStems, InclBark/WeakUnion	
521	7	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	22	1	3	11	2	from sidewalk	CompactedSoils, OverheadUtilities, SmallDW(1-2"), Co-DominantStems	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(20)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(20)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
522	11	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	22	1	5	17	2	from sidewalk	CompactedSoils, OverheadUtilities, SmallDW(1-2"), Suppressed	
523	7	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	18	1	3	11	2	from sidewalk	OverheadUtilities, CompactedSoils, Suppressed, SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	
524	11	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	22	1	5	17	2	from sidewalk	Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, SmallDW(1-2"), Suppressed	
525	7	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	16	1	3	11	2	from sidewalk	CompactedSoils, OverheadUtilities, SmallDW(1-2"), Suppressed, Co-DominantStems	
526	7	whitecedar, Atlantic	Chamaecyparis thyoides	50%	Fair	NO	4	14	1	3	11	2	from sidewalk	ExcessiveLean, CompactedSoils, OverheadUtilities, Suppressed	
527	7	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	6	20	1	3	11	2	from sidewalk	OverheadUtilities, SmallDW(1-2"), Suppressed, CompactedSoils	
528	7	whitecedar, Atlantic	Chamaecyparis thyoides	65%	Good	NO	6	22	1	3	11	2	from sidewalk	Suppressed, CompactedSoils, OverheadUtilities, SmallDW(1-2")	
529	6	whitecedar, Atlantic	Chamaecyparis thyoides	55%	Fair	NO	5	18	1	3	9	2	from sidewalk	CompactedSoils, OverheadUtilities, SmallDW(1-2"), Suppressed	
530	5	whitecedar, Atlantic	Chamaecyparis thyoides	45%	Fair	NO	3	14	1	2	8	3	from sidewalk	CompactedSoils, OverheadUtilities, Suppressed, SmallDW(1-2"), NarrowCrown	
531	6	whitecedar, Atlantic	Chamaecyparis thyoides	55%	Fair	NO	4	16	1	3	9	2		CompactedSoils, OverheadUtilities, SmallDW(1-2"), Suppressed, NarrowCrown	
532	5	whitecedar, Atlantic	Chamaecyparis thyoides	60%	Fair	NO	3	14	1	2	8	2	from sidewalk	CompactedSoils, OverheadUtilities, Co-DominantStems, Suppressed, SmallDW(1-2")	
533	11	cherry, black	Prunus serotina	65%	Good	NO	6	44	1	5	17	2		Vines, CompactedSoils	
534	26	hickory, pignut	Carya glabra	60%	Fair	NO	16	64	1	12	39	2		LargeDW(3+), SmallDW(1-2"), Vines, OverheadUtilities	
535	9	hickory, pignut	Carya glabra	20%	Critical	NO	2	14	1	4	14	3		LowVigor, SeriousDecline, LargeDW(3+), SmallDW(1-2"), Vines, Stressed	
536	10	spruce, Norway	Picea abies	60%	Fair	NO	8	18	1	5	15	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	
537	20	elm, slippery	Ulmus rubra	30%	Poor	NO	10	30	1	9	30	3	tag #021	SeriousDecline, Vines, LargeDW(3+), SmallDW(1-2"), ExcessiveLean	Yes
538	10,8	elm, slippery	Ulmus rubra	45%	Fair	NO	10	50	2	6	19	3	tag #020	Vines, OverheadUtilities, LargeDW(3+), SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	Yes
539	8	elm, slippery	Ulmus rubra	45%	Fair	NO	6	28	1	4	12	2		ExcessiveLean, SmallDW(1-2"), Vines, Suppressed, LowVigor	
540	11	cherry, black	Prunus serotina	40%	Poor	NO	10	48	1	5	17	3	tag #019	LargeDW(3+), SmallDW(1-2"), BrokenLimbs, LowVigor	
541	36	maple, silver	Acer saccharinum	60%	Fair	NO	20	78	1	16	54	2	from sidewalk	Co-DominantStems, OverheadUtilities, CompactedSoils, LargeDW(3+), SmallDW(1-2")	
542	40	maple, silver	Acer saccharinum	60%	Fair	NO	20	78	1	18	60	2	from sidewalk	CompactedSoils, OverheadUtilities, Co-DominantStems, LargeDW(3+), SmallDW(1-2")	
543	14	elm, slippery	Ulmus rubra	50%	Fair	NO	6	24	1	6	21	2		OverheadUtilities, Vines, Suppressed, SmallDW(1-2")	
544	8	elm, slippery	Ulmus rubra	60%	Fair	NO	6	26	1	4	12	2		Vines, OverheadUtilities, SmallDW(1-2"), Suppressed	
545	11	mulberry, white	Morus alba	45%	Fair	NO	6	16	1	5	17	3		ExcessiveLean, Suppressed, Vines, OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	
546	35	tuliptree	Liriodendron tulipifera	30%	Poor	NO	10	80	1	16	53	3	broken leader	LargeDW(3+), SmallDW(1-2"), Co-DominantStems, InclBark/WeakUnion	
547	19	tuliptree	Liriodendron tulipifera	45%	Fair	NO	15	70	1	9	29	2	abuts t548@base	OverheadUtilities, InclBark/WeakUnion, LargeDW(3+), SmallDW(1-2"), OneSided	
548	36	tuliptree	Liriodendron tulipifera	50%	Fair	NO	18	76	1	16	54	2	abuts t547@base	InclBark/WeakUnion, OneSided, OverheadUtilities, SmallDW(1-2"), LargeDW(3+), BrokenLimbs, Vines, BasalDecay	
549	11	hackberry, common	Celtis occidentalis	30%	Poor	NO	5	12	1	5	17	3	heading cuts with sprouts	Vines, OverheadUtilities, SmallDW(1-2"), BrokenLimbs	
550	33	tuliptree	Liriodendron tulipifera	55%	Fair	NO	18	70	1	15	50	2	phototrpic lean at top	OneSided, SmallDW(1-2"), LargeDW(3+), BrokenLimbs, Vines	
551	6	mulberry, white	Morus alba	40%	Poor	NO	4	16	1	3	9	3		Suppressed, SmallDW(1-2"), Vines, Stressed, LowVigor	
552	5	elm, slippery	Ulmus rubra	45%	Fair	NO	4	14	1	2	8	3		Vines, Suppressed, SmallDW(1-2"), LowVigor	
553	6	mulberry, white	Morus alba	30%	Poor	NO	4	14	1	3	9	3		BrokenLimbs, LargeDW(3+), SmallDW(1-2"), Vines, Suppressed, LowVigor	
554	5	elm, slippery	Ulmus rubra	45%	Fair	NO	3	12	1	2	8	3		Vines, Stressed, SmallDW(1-2"), ExcessiveLean	
555	71	tuliptree	Liriodendron tulipifera	65%	Good	NO	22	100	1	32	107	2	basal cavity 2'x5""	LargeDW(3+), SmallDW(1-2")	
556	23	maple, red	Acer rubrum	45%	Fair	NO	16	44	1	10	35	2	top phototropic lean	Vines, BrokenLimbs, SmallDW(1-2"), Suppressed	
557	31	tuliptree	Liriodendron tulipifera	65%	Good	NO	18	86	1	14	47	2		SmallDW(1-2"), LargeDW(3+), CompactedSoils, OverheadUtilities, RootDamage/Decay	Yes
558	13	elm, slippery	Ulmus rubra	65%	Good	NO	8	34	1	6	20	2		CompactedSoils, OverheadUtilities, SmallDW(1-2")	Yes
559	14	oak, willow	Quercus phellos	65%	Good	NO	10	40	1	6	21	2		SmallDW(1-2"), CompactedSoils	
560	26	locust, black	Robinia pseudoacacia	30%	Poor	NO	9	48	1	12	39	4		FungalFruitingBodies, TrunkDecay, CompactedSoils, OverheadUtilities, SeriousDecline, LowVigor, Stressed, SmallDW(1-2"), LargeDW(3+)	Yes
561	36	tuliptree	Liriodendron tulipifera	65%	Good	NO	13	80	1	16	54	2		RootDamage/Decay, CompactedSoils, OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	Yes
562	39	oak, black	Quercus velutina	55%	Fair	NO	20	80	1	18	59	2	gr 3"x2', 1"x3"; ground bulging @ root collar	RootDamage/Decay, CompactedSoils, LargeDW(3+), SmallDW(1-2"), OverheadUtilities, GirdlingRootCollamotesize	
563	10	spruce, Norway	Picea abies	65%	Good	NO	6	22	1	5	15	2		OverheadUtilities, Co-DominantStems	
564	7	spruce, Norway	Picea abies	65%	Good	NO	5	20	1	3	11	2		Co-DominantStems, OverheadUtilities	
565	6,6	spruce, Norway	Picea abies	45%	Fair	NO	3	16	2	4	13	3	from sidewalk	OverheadUtilities, Co-DominantStems, LowVigor	
566	7,7	tuliptree	Liriodendron tulipifera	60%	Fair	NO	8	28	2	4	15	2	from sidewalk	Co-DominantStems, OverheadUtilities, CompactedSoils, RootDamage/Decay, SmallDW(1-2")	
567	3,2	boxelder	Acer negundo	65%	Good	NO	5	14	2	2	5	2	from sidewalk	Co-DominantStems, OverheadUtilities	
568	33	maple, silver	Acer saccharinum	65%	Good	NO	18	68	1	15	50	2	from sidewalk	Co-DominantStems, OverheadUtilities, CompactedSoils, BrokenLimbs, SmallDW(1-2")	
569	11	cherry, sweet	Prunus avium	50%	Fair	NO	5	10	1	5	17	2	from sidewalk	Co-DominantStems, BranchDecay, LargeDW(3+), SmallDW(1-2")	
570	1	holly, American	Ilex opaca	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
571	1	holly, American	Ilex opaca	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
572	1	cryptomeria, Japanese	Cryptomeria japonica	70%	Good	NO	2	6	1	0	2	2	from sidewalk	OverheadUtilities	
573	1	cryptomeria, Japanese	Cryptomeria japonica	70%	Good	NO	2	6	1	0	2	2	from sidewalk	OverheadUtilities	
574	8,9,7,7	holly, American	Ilex opaca	65%	Good	NO	7	22	4	7	23	2	from sidewalk	Co-DominantStems, SmallDW(1-2"), OverheadUtilities	
575	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	2	6	1	0	2	2	from sidewalk	OverheadUtilities	
576	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
577	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
578	1	holly, American	Ilex opaca	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
579	1	cryptomeria, Japanese	Cryptomeria japonica	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
580	1	cryptomeria, Japanese	Cryptomeria japonica	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
581	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
582	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
583	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(21)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(21)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
584	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
585	1	whitecedar, Atlantic	Chamaecyparis thyoides	70%	Good	NO	1	6	1	0	2	2	from sidewalk	OverheadUtilities	
586	25	tuliptree	Liriodendron tulipifera	65%	Good	NO	12	78	1	11	38	2	butt swell	CompactedSoils, RootDamage/Decay, LargeDW(3+), SmallDW(1-2"), BrokenLimbs	
587	14	oak, black	Quercus velutina	65%	Good	NO	8	60	1	6	21	2	top phototropic lean	SmallDW(1-2"), CompactedSoils, RootDamage/Decay	
588	11	dogwood, flowering	Cornus florida	65%	Good	NO	8	18	1	5	17	2		CompactedSoils, RootDamage/Decay, SmallDW(1-2")	
589	12	tuliptree	Liriodendron tulipifera	70%	Good	NO	7	22	1	5	18	2	gr 1""x13""; 2""x8""	CompactedSoils, BuriedRootCollar, GirdlingRootCollarnotesize	Yes
590	18	oak, willow	Quercus phellos	70%	Good	NO	10	34	1	8	27	2		BuriedRootCollar, CompactedSoils, SmallDW(1-2")	
591	19	maple, red	Acer rubrum	60%	Fair	NO	10	28	1	9	29	2	gr 5""x6""	GirdlingRootCollarnotesize, BrokenLimbs, SmallDW(1-2"), CompactedSoils, BuriedRootCollar, Co-DominantStems, OverheadUtilities	Yes
592	19	maple, red	Acer rubrum	60%	Fair	NO	12	30	1	9	29	2	gr 3""x12""	CompactedSoils, BuriedRootCollar, OverheadUtilities, GirdlingRootCollarnotesize, Co-DominantStems, SmallDW(1-2"), InclBark/WeakUnion, RootDamage/Decay	Yes
593	22	maple, red	Acer rubrum	65%	Good	NO	11	40	1	10	33	2	gr 2""x14""	CompactedSoils, OverheadUtilities, GirdlingRootCollarnotesize, Co-DominantStems, SmallDW(1-2"), RootDamage/Decay	Yes
594	6	oak, willow	Quercus phellos	70%	Good	NO	4	22	1	3	9	2		BuriedRootCollar, CompactedSoils, OverheadUtilities	Yes
595	9	oak, willow	Quercus phellos	70%	Good	NO	6	26	1	4	14	2		CompactedSoils, BuriedRootCollar, SmallDW(1-2")	Yes
596	18	maple, red	Acer rubrum	60%	Fair	NO	12	40	1	8	27	2	gr 2""x7""	BuriedRootCollar, OverheadUtilities, CompactedSoils, GirdlingRootCollarnotesize, InclBark/WeakUnion, RootDamage/Decay, SmallDW(1-2")	Yes
597	25	maple, red	Acer rubrum	60%	Fair	NO	11	40	1	11	38	2	gr 1""x14""	CompactedSoils, BuriedRootCollar, RootDamage/Decay, GirdlingRootCollarnotesize, SmallDW(1-2"), BrokenLimbs, LargeDW(3+)	Yes
598	8	tuliptree	Liriodendron tulipifera	70%	Good	NO	6	38	1	4	12	2		BuriedRootCollar, CompactedSoils	Yes
599	22	maple, red	Acer rubrum	20%	Critical	NO	10	38	1	10	33	4	separation at union 4""; missing bark base to 4' half trunk circumf.	CompactedSoils, BuriedRootCollar, OverheadUtilities, SmallDW(1-2"), RootDamage/Decay, Co-DominantStems, InclBark/WeakUnion, User2(makenote)	Yes
600	9	dogwood, flowering	Cornus florida	65%	Good	NO	6	14	1	4	14	2		BuriedRootCollar, CompactedSoils, Hardware, SmallDW(1-2")	Yes
601	6	dogwood, flowering	Cornus florida	65%	Good	NO	5	14	1	3	9	2		SmallDW(1-2"), CompactedSoils	Yes
602	11	maple, red	Acer rubrum	65%	Good	NO	11	26	1	5	17	2		CompactedSoils, OverheadUtilities, BuriedRootCollar, SmallDW(1-2")	Yes
603	11	maple, red	Acer rubrum	70%	Good	NO	10	28	1	5	17	2		BuriedRootCollar, CompactedSoils	Yes
604	24	maple, red	Acer rubrum	65%	Good	NO	13	36	1	11	36	2		OverheadUtilities, CompactedSoils, BasalDecay, SmallDW(1-2")	Yes
605	7	oak, willow	Quercus phellos	65%	Good	NO	7	20	1	3	11	2		CompactedSoils, BuriedRootCollar	Yes
606	19	maple, red	Acer rubrum	65%	Good	NO	10	22	1	9	29	2	gr 2""x8""; heading cuts	CompactedSoils, OverheadUtilities, GirdlingRootCollarnotesize, SmallDW(1-2"), BrokenLimbs	Yes
607	20	maple, red	Acer rubrum	55%	Fair	NO	13	26	1	9	30	3	leader decline; heading cuts	RootDamage/Decay, OverheadUtilities, LargeDW(3+), SmallDW(1-2"), BranchDecay, User2(makenote)	Yes
608	11	tuliptree	Liriodendron tulipifera	70%	Good	NO	7	34	1	5	17	2		CompactedSoils, BuriedRootCollar, SmallDW(1-2")	Yes
609	6	dogwood, flowering	Cornus florida	70%	Good	NO	5	18	1	3	9	2		SmallDW(1-2"), CompactedSoils	Yes
610	18	maple, red	Acer rubrum	70%	Good	NO	11	28	1	8	27	2		CompactedSoils, BuriedRootCollar, OverheadUtilities, RootDamage/Decay	Yes
611	25	tuliptree	Liriodendron tulipifera	40%	Poor	NO	5	50	1	11	38	3	limbed for power lines	OverheadUtilities, CompactedSoils, OneSided, RootDamage/Decay	Yes
612	6,5	dogwood, flowering	Cornus florida	65%	Good	NO	6	16	2	4	12	2		BuriedRootCollar, CompactedSoils, SmallDW(1-2"), Co-DominantStems	Yes
613	4,3	dogwood, flowering	Cornus florida	65%	Good	NO	4	14	2	2	8	2		BuriedRootCollar, CompactedSoils, Co-DominantStems	Yes
614	5	dogwood, flowering	Cornus florida	50%	Fair	NO	3	10	1	2	8	3		BasalDecay, CompactedSoils, SmallDW(1-2"), TrunkDecay	Yes
615	28	tuliptree	Liriodendron tulipifera	30%	Poor	NO	7	70	1	13	42	3	limbed for utilities	CompactedSoils, OverheadUtilities, OneSided, SmallDW(1-2"), LargeDW(3+), RootDamage/Decay	Yes
616	13	tuliptree	Liriodendron tulipifera	30%	Poor	NO	5	60	1	6	20	3	limbed for utilities	CompactedSoils, OneSided, RootDamage/Decay, SmallDW(1-2"), LargeDW(3+)	Yes
617	5	tuliptree	Liriodendron tulipifera	65%	Good	NO	2	18	1	2	8	2		BuriedRootCollar, CompactedSoils, NarrowCrown	Yes
618	12	maple, red	Acer rubrum	60%	Fair	NO	10	28	1	5	18	2		CompactedSoils, OverheadUtilities, SmallDW(1-2"), RootDamage/Decay, BrokenLimbs	Yes
619	17,15	tuliptree	Liriodendron tulipifera	50%	Fair	NO	9	68	2	10	34	2	limbed for utilities	Co-DominantStems, RootDamage/Decay, CompactedSoils, OverheadUtilities, SmallDW(1-2"), LargeDW(3+)	Yes
620	2,1	ash, green	Fraxinus pennsylvanica	70%	Good	NO	2	8	2	1	3	2		BuriedRootCollar, Co-DominantStems	Yes
621	16	pine, Virginia	Pinus virginiana	65%	Good	NO	8	36	1	7	24	2		RootDamage/Decay, CompactedSoils, SmallDW(1-2")	Yes
622	19	tuliptree	Liriodendron tulipifera	40%	Poor	NO	10	70	1	9	29	3	gr 1""x7""; 2""x5"";1""x6""	RootDamage/Decay, CompactedSoils, OverheadUtilities, GirdlingRootCollarnotesize, SmallDW(1-2"), LargeDW(3+), LowVigor	Yes
623	8	tuliptree	Liriodendron tulipifera	50%	Fair	NO	2	12	1	4	12	3		OverheadUtilities, CompactedSoils, TrunkDecay, MechanicalDamage	Yes
624	20	maple, red	Acer rubrum	60%	Fair	NO	8	24	1	9	30	2	abutting t625	CompactedSoils, RootDamage/Decay, OneSided, InclBark/WeakUnion	Yes
625	19	tuliptree	Liriodendron tulipifera	60%	Fair	NO	12	68	1	9	29	2	abutting t624	CompactedSoils, RootDamage/Decay, InclBark/WeakUnion	Yes
626	16	pine, Virginia	Pinus virginiana	25%	Poor	NO	5	46	1	7	24	3	long. crack to 6' both sides; 2nd crack to 3'	OverheadUtilities, CompactedSoils, TrunkDecay, SmallDW(1-2"), LargeDW(3+)	Yes
627	7	oak, willow	Quercus phellos	65%	Good	NO	5	28	1	3	11	2		CompactedSoils, BuriedRootCollar, SmallDW(1-2"), BrokenLimbs	Yes
628	5	pine, Virginia	Pinus virginiana	40%	Poor	NO	3	20	1	2	8	3		CompactedSoils, BuriedRootCollar, MechanicalDamage	Yes
629	11	tuliptree	Liriodendron tulipifera	65%	Good	NO	9	50	1	5	17	2		CompactedSoils, LargeDW(3+), SmallDW(1-2")	Yes
630	12	tuliptree	Liriodendron tulipifera	70%	Good	NO	10	64	1	5	18	2		CompactedSoils, SmallDW(1-2")	Yes
631	10	pine, Virginia	Pinus virginiana	50%	Fair	NO	3	26	1	5	15	2		ExcessiveLean, CompactedSoils, SmallDW(1-2"), LargeDW(3+), OverheadUtilities	Yes
632	26	maple, red	Acer rubrum	55%	Fair	NO	10	64	1	12	39	2	prev. codom failure	CompactedSoils, BrokenLimbs, SmallDW(1-2"), OverheadUtilities, RootDamage/Decay, BranchDecay	Yes
633	14	maple, red	Acer rubrum	60%	Fair	NO	8	48	1	6	21	2		CompactedSoils, OneSided, RootDamage/Decay, BrokenLimbs, SmallDW(1-2")	Yes
634	27	maple, red	Acer rubrum	60%	Fair	NO	10	60	1	12	41	2		CompactedSoils, RootDamage/Decay, OneSided, SmallDW(1-2")	Yes
635	19	maple, red	Acer rubrum	60%	Fair	NO	11	60	1	9	29	2		CompactedSoils, RootDamage/Decay, OverheadUtilities, BrokenLimbs, SmallDW(1-2"), OneSided	Yes
636	11	dogwood, flowering	Cornus florida	65%	Good	NO	6	18	1	5	17	2		CompactedSoils, TrunkDecay, BranchDecay	
637	21	locust, black	Robinia pseudoacacia	55%	Fair	NO	10	50	1	9	32	3	1""x14"" gr	MechanicalDamage, CompactedSoils, RootDamage/Decay, GirdlingRootCollarnotesize, OverheadUtilities, BasalDecay, SeriousDecline, LargeDW(3+)	Yes
638	18	locust, black	Robinia pseudoacacia	50%	Fair	NO	8	24	1	8	27	3		MechanicalDamage, TrunkDecay, SmallDW(1-2"), OverheadUtilities, CompactedSoils, OneSided, LargeDW(3+), BuriedRootCollar	Yes
639	25	pine, Virginia	Pinus virginiana	60%	Fair	NO	16	58	1	11	38	2	gr 2""x24""	CompactedSoils, GirdlingRootCollarnotesize, SmallDW(1-2"), LargeDW(3+)	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(22)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(22)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
640	8	maple, red	Acer rubrum	70%	Good	NO	7	18	1	4	12	2		BuriedRootCollar	
641	12	pine, Virginia	Pinus virginiana	55%	Fair	NO	9	38	1	5	18	2	abutting t642	CompactedSoils, LargeDW(3+), SmallDW(1-2"), Suppressed, InclBark/WeakUnion	
642	14	maple, red	Acer rubrum	60%	Fair	NO	12	40	1	6	21	2	abutting t641	InclBark/WeakUnion, SmallDW(1-2"), LargeDW(3+), BrokenLimbs, CompactedSoils, RootDamage/Decay	
643	22	pine, Virginia	Pinus virginiana	60%	Fair	NO	10	56	1	10	33	2		CompactedSoils, RootDamage/Decay, LargeDW(3+), SmallDW(1-2"), OverheadUtilities, OneSided	Yes
644	13	pine, Virginia	Pinus virginiana	55%	Fair	NO	8	26	1	6	20	2	top phototropic lean	RootDamage/Decay, CompactedSoils, OneSided, Suppressed, SmallDW(1-2"), LargeDW(3+)	
645	13, 11	pine, Virginia	Pinus virginiana	45%	Fair	NO	8	20	2	8	26	3	long. crack in top2': broken leader	OverheadUtilities, Co-DominantStems, TrunkDecay, OneSided, CompactedSoils, SmallDW(1-2"), LargeDW(3+)	
646	19	pine, Virginia	Pinus virginiana	55%	Fair	NO	9	58	1	9	29	2		OneSided, CompactedSoils, RootDamage/Decay, LargeDW(3+), SmallDW(1-2"), OverheadUtilities	
647	20	tuliptree	Liriodendron tulipifera	60%	Fair	NO	12	40	1	9	30	2		ExcessiveLean, Stressed, CompactedSoils, SmallDW(1-2")	
648	41	oak, southern red	Quercus falcata	65%	Good	NO	20	68	1	18	62	2	4""x36""	GirdlingRootCollarnotesize, RootDamage/Decay, LargeDW(3+), SmallDW(1-2"), CompactedSoils	
649	3,1,1,1	arborvitae, eastern	Thuja occidentalis	65%	Good	NO	2	8	4	2	5	2		Co-DominantStems, OverheadUtilities	
650	3,2,1	arborvitae, eastern	Thuja occidentalis	65%	Good	NO	2	8	3	2	6	2		Co-DominantStems, OverheadUtilities	
651	2,2,1	arborvitae, eastern	Thuja occidentalis	65%	Good	NO	2	8	3	1	5	2		Co-DominantStems, OverheadUtilities	
652	11	pine, Virginia	Pinus virginiana	60%	Fair	NO	9	46	1	5	17	2		OneSided, SmallDW(1-2"), OverheadUtilities	
653	18	pine, Virginia	Pinus virginiana	60%	Fair	NO	13	48	1	8	27	2		OneSided, OverheadUtilities, SmallDW(1-2")	
654	3,2,2	arborvitae, eastern	Thuja occidentalis	65%	Good	NO	2	8	3	2	6	2		Co-DominantStems	
655	3,3,3,2	arborvitae, eastern	Thuja occidentalis	65%	Good	NO	2	8	4	3	8	2		Co-DominantStems	
878	15	tuliptree	Liriodendron tulipifera	65%	Good	NO	20	78	1	7	23	2		SmallDW(1-2"), BuriedRootCollar	
879	7	maple, red	Acer rubrum	50%	Fair	NO	6	40	1	3	11	3		BasalDecay, TrunkDecay, OverheadUtilities, OneSided, Suppressed, LowVigor	
880	16	tuliptree	Liriodendron tulipifera	55%	Fair	NO	15	70	1	7	24	2		OneSided, Suppressed, SmallDW(1-2"), OverheadUtilities	
881	17	pine, Virginia	Pinus virginiana	50%	Fair	NO	15	82	1	8	26	3	Low LCR	OverheadUtilities, OneSided, BranchDecay, BrokenLimbs, LargeDW(3+), SmallDW(1-2")	
882	16	pine, Virginia	Pinus virginiana	55%	Fair	NO	15	80	1	7	24	2	low LCR	OverheadUtilities, LargeDW(3+), SmallDW(1-2"), BranchDecay, BrokenLimbs	
883	5,2	holly, American	Ilex opaca	65%	Good	NO	8	24	2	2	8	2		Co-DominantStems, OverheadUtilities	
884	5,4	holly, American	Ilex opaca	65%	Good	NO	8	26	2	3	10	2		Co-DominantStems, OverheadUtilities	
885	19	maple, red	Acer rubrum	50%	Fair	NO	20	74	1	9	29	3		Stressed, RootDamage/Decay, Co-DominantStems, LargeDW(3+), SmallDW(1-2"), BranchDecay, BrokenLimbs, OverheadUtilities	
886	15,8	hickory spp.	Carya spp.	50%	Fair	NO	25	80	2	8	26	2		Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2"), CompactedSoils	
887	7	maple, red	Acer rubrum	60%	Fair	NO	20	50	1	3	11	3	old leader cut with new apical growth	OverheadUtilities, SmallDW(1-2"), Suppressed	
888	16	hickory spp.	Carya spp.	60%	Fair	NO	20	92	1	7	24	2	GR one inch by one foot	OverheadUtilities, GirdlingRootCollarnotesize, Co-DominantStems	
889	14	blackgum	Nyssa sylvatica	50%	Fair	NO	12	70	1	6	21	2		CompactedSoils, OneSided, OverheadUtilities, SmallDW(1-2")	
890	6	maple, red	Acer rubrum	50%	Fair	NO	15	24	1	3	9	3		Co-DominantStems, InclBark/WeakUnion, TrunkDecay, RootDamage/Decay, SmallDW(1-2")	
891	13	beech, American	Fagus grandifolia	60%	Fair	NO	10	64	1	6	20	2	two large, old cracks with new response wood	OverheadUtilities, SmallDW(1-2")	
892	14	pine, Virginia	Pinus virginiana	40%	Poor	NO	10	76	1	6	21	3	low LCR	BasalDecay, NarrowCrown, OneSided, OverheadUtilities, LargeDW(3+), SmallDW(1-2"), BrokenLimbs	
893	8	tuliptree	Liriodendron tulipifera	45%	Fair	NO	10	60	1	4	12	3		OneSided, OverheadUtilities, SmallDW(1-2")	
894	5	maple, red	Acer rubrum	55%	Fair	NO	6	30	1	2	8	3		SmallDW(1-2"), BasalDecay, OverheadUtilities	
895	19	maple, red	Acer rubrum	50%	Fair	NO	20	78	1	9	29	3		BasalDecay, RootDamage/Decay, TrunkDecay, OverheadUtilities	
896	8	beech, American	Fagus grandifolia	65%	Good	NO	12	40	1	4	12	2		SmallDW(1-2"), OverheadUtilities	
897	14	oak, black	Quercus velutina	60%	Fair	NO	15	76	1	6	21	2		OverheadUtilities, LargeDW(3+), SmallDW(1-2")	
898	20	pine, Virginia	Pinus virginiana	50%	Fair	NO	20	82	1	9	30	3	GR three inches by two feet, very close to utility line	TrunkDecay, GirdlingRootCollamotesize, OverheadUtilities, BranchDecay, BrokenLimbs	
899	13	hickory spp.	Carya spp.	40%	Poor	NO	15	72	1	6	20	3	GR two inches by one foot on uphill side, basal cavity on downslope side	BasalDecay, OverheadUtilities, GirdlingRootCollarnotesize	
900	5	beech, American	Fagus grandifolia	65%	Good	NO	8	24	1	2	8	2		OverheadUtilities	
901	12	maple, red	Acer rubrum	55%	Fair	NO	23	60	1	5	18	3	GR one inch by two feet, trunk is touching utility line	RootDamage/Decay, GirdlingRootCollarnotesize, LargeDW(3+), FungalFruitingBodies, SmallDW(1-2"), OverheadUtilities	
902	17	pine, Virginia	Pinus virginiana	50%	Fair	NO	15	68	1	8	26	3		RootDamage/Decay, CompactedSoils, BasalDecay, OverheadUtilities, LargeDW(3+), SmallDW(1-2"), BrokenLimbs	
903	10	beech, American	Fagus grandifolia	65%	Good	NO	15	60	1	5	15	2		Suppressed, OverheadUtilities	
904	10	oak, pin	Quercus palustris	60%	Fair	NO	8	56	1	5	15	2	on slope, prune limb over roadway	OverheadUtilities, SmallDW(1-2")	
905	13	maple, red	Acer rubrum	50%	Fair	NO	12	70	1	6	20	3		OverheadUtilities, BasalDecay, TrunkDecay, LargeDW(3+), SmallDW(1-2")	
906	5	holly, American	Ilex opaca	70%	Good	NO	6	20	1	2	8	2		OverheadUtilities, Suppressed	
907	18	maple, red	Acer rubrum	45%	Fair	NO	20	74	1	8	27	3	GR three inches by three feet, large hanger thirty feet up	GirdlingRootCollarnotesize, BranchDecay, BrokenLimbs, Co-DominantStems, OverheadUtilities, ExcessiveLean, SmallDW(1-2"), LargeDW(3+)	
908	12	sassafras	Sassafras albidum	45%	Fair	NO	15	56	1	5	18	3	numerous girdling roots	GirdlingRootCollamotesize, BasalDecay, OverheadUtilities, BuriedRootCollar, BrokenLimbs	
909	14	beech, American	Fagus grandifolia	45%	Fair	NO	20	64	1	6	21	3	GR one inch by two feet, significant decay near root flare	Co-DominantStems, BasalDecay, RootDamage/Decay, CompactedSoils, OverheadUtilities, GirdlingRootCollamotesize, InclBark/WeakUnion	
910	18	oak, black	Quercus velutina	40%	Poor	NO	20	80	1	8	27	3	GR's 270 degrees around the trunk	GirdlingRootCollarnotesize, Co-DominantStems, BranchDecay, BrokenLimbs, InclBark/WeakUnion, OverheadUtilities, RootDamage/Decay	
911	26	maple, red	Acer rubrum	50%	Fair	NO	20	76	1	12	39	3	numerous small GR's	Co-DominantStems, InclBark/WeakUnion, TrunkDecay, RootDamage/Decay, OverheadUtilities, SmallDW(1-2"), GirdlingRootCollamotesize	
912	13	cherry, black	Prunus serotina	45%	Fair	NO	15	58	1	6	20	3	GR two inches by three feet	ExcessiveLean, RootDamage/Decay, BasalDecay, LargeDW(3+), SmallDW(1-2"), GirdlingRootCollamotesize	
913	40	oak, southern red	Quercus falcata	65%	Good	NO	40	92	1	18	60	2	GR one inch by two feet	RootDamage/Decay, CompactedSoils, BrokenLimbs, BranchDecay, OverheadUtilities, GirdlingRootCollamotesize	
914	8	dogwood, flowering	Cornus florida	60%	Fair	NO	12	20	1	4	12	2	diameter measured one foot above soil	BuriedRootCollar, Co-DominantStems, BranchDecay, InclBark/WeakUnion	
915	6	ash, green	Fraxinus pennsylvanica	45%	Fair	NO	8	30	1	3	9	3		CompactedSoils, Suppressed, Insect/DiseaseProblem, SmallDW(1-2")	
916	6	maple, red	Acer rubrum	45%	Fair	NO	8	36	1	3	9	3		Vines, ExcessiveLean, Suppressed, SmallDW(1-2")	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(23)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(23)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
917	14	oak, southern red	Quercus falcata	65%	Good	NO	20	64	1	6	21	2		CompactedSoils, RootDamage/Decay, OverheadUtilities, SmallDW(1-2")	
918	14,10,10, 9	maple, red	Acer rubrum	40%	Poor	NO	15	46	4	10	33	3		RootDamage/Decay, Vines, OneSided, Suppressed, Co-DominantStems, InclBark/WeakUnion, TrunkDecay, BranchDecay, OverheadUtilities	
919	7	beech, American	Fagus grandifolia	55%	Fair	NO	7	20	1	3	11	2		CompactedSoils, RootDamage/Decay, TrunkDecay, BasalDecay, SmallDW(1-2")	
920	10,6	blackgum	Nyssa sylvatica	50%	Fair	NO	20	50	2	5	17	2	GR one inch by twelve inches	Co-DominantStems, Vines, LowVigor, Stressed, GirdlingRootCollarnotesize	
921	6	beech, American	Fagus grandifolia	35%	Poor	NO	6	40	1	3	9	3	dead leader, very thin canopy	Vines, Suppressed, SeriousDecline, SmallDW(1-2"), LargeDW(3+)	
922	5	beech, American	Fagus grandifolia	60%	Fair	NO	7	28	1	2	8	2	dead leader	SmallDW(1-2"), Suppressed	
923	6	beech, American	Fagus grandifolia	60%	Fair	NO	10	46	1	3	9	2		TrunkDecay, BranchDecay, SmallDW(1-2")	
924	18	tuliptree	Liriodendron tulipifera	45%	Fair	NO	12	64	1	8	27	3		BasalDecay, NarrowCrown, LowVigor, LargeDW(3+), SmallDW(1-2"), OverheadUtilities, BranchDecay, BrokenLimbs	
925	15	oak, northern red	Quercus rubra	60%	Fair	NO	20	58	1	7	23	2		Co-DominantStems, SmallDW(1-2"), OverheadUtilities	
926	9	beech, American	Fagus grandifolia	60%	Fair	NO	14	42	1	4	14	2		OverheadUtilities, Suppressed, SmallDW(1-2")	
927	9	maple, red	Acer rubrum	60%	Fair	NO	15	40	1	4	14	2		SmallDW(1-2"), BranchDecay, Suppressed	
928	8	beech, American	Fagus grandifolia	65%	Good	NO	12	32	1	4	12	2		SmallDW(1-2"), Suppressed	
929	30	oak, black	Quercus velutina	60%	Fair	NO	20	90	1	14	45	2		Co-DominantStems, SmallDW(1-2"), RootDamage/Decay, OverheadUtilities	
930	8	beech, American	Fagus grandifolia	60%	Fair	NO	15	26	1	4	12	2	split leader	Vines, Co-DominantStems, RootDamage/Decay, CompactedSoils	
931	22	tuliptree	Liriodendron tulipifera	40%	Poor	NO	12	76	1	10	33	3		NarrowCrown, BasalDecay, RootDamage/Decay	
932	10	cherry, sweet	Prunus avium	50%	Fair	NO	10	40	1	5	15	2		Vines, LargeDW(3+), SmallDW(1-2"), Suppressed	
933	5	blackgum	Nyssa sylvatica	60%	Fair	NO	8	26	1	2	8	2		LargeDW(3+), Vines, BrokenLimbs, BranchDecay	
934	30	ash, green	Fraxinus pennsylvanica	40%	Poor	NO	20	76	1	14	45	3		Insect/DiseaseProblem, CompactedSoils, RootDamage/Decay, BrokenLimbs, Stressed, SmallDW(1-2"), LargeDW(3+)	
935	21	maple, red	Acer rubrum	45%	Fair	NO	12	68	1	9	32	3	leaning over roadway	ExcessiveLean, CompactedSoils, RootDamage/Decay, BasalDecay, Stressed, OverheadUtilities	
936	32	tuliptree	Liriodendron tulipifera	40%	Poor	NO	20	90	1	14	48	3	numerous small GR's, significant trunk cavity (a few cubic feet)	GirdlingRootCollarnotesize, BasalDecay, TrunkDecay, OneSided, CompactedSoils, RootDamage/Decay, OverheadUtilities	
937	31	tuliptree	Liriodendron tulipifera	60%	Fair	NO	25	86	1	14	47	2	GR two inches by four feet	GirdlingRootCollamotesize, OverheadUtilities, RootDamage/Decay, SmallDW(1-2"), CompactedSoils	
938	5	sassafras	Sassafras albidum	50%	Fair	NO	7	22	1	2	8	3		Vines, OverheadUtilities, BuriedRootCollar, OneSided, SmallDW(1-2")	
939	39	tuliptree	Liriodendron tulipifera	55%	Fair	NO	35	92	1	18	59	2		OverheadUtilities, Vines, RootDamage/Decay, CompactedSoils, BrokenLimbs, BranchDecay, LargeDW(3+), SmallDW(1-2")	
940	6	ZZ Unknown species	ZZ Unknown species	60%	Fair	NO	8	20	1	3	9	2		BuriedRootCollar, Co-DominantStems, OverheadUtilities, BranchDecay, SmallDW(1-2"), InclBark/WeakUnion	
941	6	dogwood; flowering	Cornus florida	65%	Good	NO	6	10	1	3	9	2	diameter measured two feet above soil	BuriedRootCollar, OverheadUtilities, Co-DominantStems	Yes
942	22	hickory; mockernut	Carya tomentosa	60%	Fair	NO	20	78	1	10	33	2	GR 3"" by 4 feet	GirdlingRootCollamotesize, Co-DominantStems, OverheadUtilities, SmallDW(1-2")	
943	23	hickory; mockernut	Carya tomentosa	55%	Fair	NO	30	76	1	10	35	2		Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, SmallDW(1-2")	
944	24	ZZ Unknown snag	ZZ Unknown snag	0%	Dead	YES	0	40	1	11	36	4		OverheadUtilities	Yes
945	25	maple; red	Acer rubrum	55%	Fair	NO	25	70	1	11	38	2	GR one inch by twelve inches	BasalDecay, GirdlingRootCollamotesize, OverheadUtilities, Co-DominantStems, TrunkDecay, SmallDW(1-2")	
946	6	dogwood; flowering	Cornus florida	60%	Fair	NO	10	20	1	3	9	2	diameter measured one foot above soil	OverheadUtilities, BuriedRootCollar, Co-DominantStems, InclBark/WeakUnion, SmallDW(1-2")	
947	6	dogwood; flowering	Cornus florida	65%	Good	NO	15	22	1	3	9	2		OverheadUtilities, BuriedRootCollar, Co-DominantStems	
948	5,3	dogwood; flowering	Cornus florida	55%	Fair	NO	10	22	2	3	9	2	touching utility line	BasalDecay, Co-DominantStems, OverheadUtilities, SmallDW(1-2")	
953	9	dogwood; flowering	Cornus florida	50%	Fair	NO	6	20	1	4	14	2	diameter measured two feet from ground, touching utility lines	Co-DominantStems, BuriedRootCollar, InclBark/WeakUnion, OverheadUtilities, MechanicalDamage, Suppressed	
955	8	dogwood; flowering	Cornus florida	40%	Poor	NO	6	20	1	4	12	3	crack at leader union, dbh measured two feet above ground	Co-DominantStems, BrokenLimbs, BasalDecay, TrunkDecay, BranchDecay, InclBark/WeakUnion	
956	9	maple; sugar	Acer saccharum	55%	Fair	NO	15	26	1	4	14	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage, BuriedRootCollar	
957	13	cherry; Japanese flowering	Prunus serrulata	60%	Fair	NO	20	30	1	6	20	2	private property	OverheadUtilities, BuriedRootCollar, Co-DominantStems, InclBark/WeakUnion	
958	11	cherry; Japanese flowering	Prunus serrulata	65%	Good	NO	15	26	1	5	17	2	private property	OverheadUtilities, BuriedRootCollar, Co-DominantStems	
959	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
960	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
961	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
962	6	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	3	9	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
963	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
964	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, MechanicalDamage, Suppressed	
965	8	cypress; Leyland	x Cupressocyparis leylandii	50%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage, Co-DominantStems	
966	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
967	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
968	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
969	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	6	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
970	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	BrokenLimbs, OverheadUtilities, Suppressed, MechanicalDamage	
971	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
972	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, MechanicalDamage, Suppressed	
973	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, MechanicalDamage, Suppressed	
974	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
975	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
976	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, MechanicalDamage, Suppressed	
977	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped,private property	OverheadUtilities, MechanicalDamage, Suppressed	
978	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
979	8	cypress; Leyland	x Cupressocyparis leylandii	55%	Fair	NO	5	30	1	4	12	2	topped, private property	OverheadUtilities, MechanicalDamage, Suppressed	
980	10	pine; eastern white	Pinus strobus	50%	Fair	NO	9	22	1	5	15	2	topped, private property	OverheadUtilities, MechanicalDamage, Co-DominantStems, Suppressed	
981	11	pine; eastern white	Pinus strobus	50%	Fair	NO	9	24	1	5	17	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
982	6	cedar; Atlas	Cedrus atlantica	50%	Fair	NO	5	16	1	3	9	2	topped, private property	Co-DominantStems, Suppressed, MechanicalDamage, OverheadUtilities	
983	10	pine; eastern white	Pinus strobus	50%	Fair	NO	10	20	1	5	15	2	topped, private property	Suppressed, MechanicalDamage, OverheadUtilities	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(24)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(24)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
984	8	redbud; eastern	Cercis canadensis	70%	Good	NO	12	30	1	4	12	2	private property	BuriedRootCollar, OverheadUtilities, Co-DominantStems	
985	5	redbud; eastern	Cercis canadensis	70%	Good	NO	7	22	1	2	8	2	private property	OverheadUtilities, BuriedRootCollar	
986	5	redbud; eastern	Cercis canadensis	65%	Good	NO	7	20	1	2	8	2	private property	Co-DominantStems, OverheadUtilities	
987	6	sweetgum; American	Liquidambar styraciflua	65%	Good	NO	8	36	1	3	9	2	topped, private property	OverheadUtilities, Suppressed, MechanicalDamage	
988	6,6,6,5,4, 3,2,2	crapemyrtle; common	Lagerstroemia indica	55%	Fair	NO	10	24	8	6	19	2	private property	InclBark/WeakUnion, Co-DominantStems, OverheadUtilities, SmallDW(1-2")	Yes
989	6,8	holly; American	Ilex opaca	50%	Fair	NO	9	24	2	5	15	2	on private property not full view	Co-DominantStems, InclBark/WeakUnion, OverheadUtilities	
990	12,11	cypress; Leyland	x Cupressocyparis leylandii	45%	Fair	NO	12	36	2	7	24	2	Tree on private property, not full view	InclBark/WeakUnion, Hardware, Co-DominantStems, OverheadUtilities	
991	14	holly; American	Ilex opaca	55%	Fair	NO	8	30	1	6	21	2	tree on private property not full view	Co-DominantStems, InclBark/WeakUnion, OverheadUtilities, BuriedRootCollar	
992	17	pine; eastern white	Pinus strobus	70%	Good	NO	10	60	1	8	26	2	tree on private property, not full view		
993	6	tree of heaven	Ailanthus altissima	25%	Poor	NO	3	26	1	3	9	4	remove it	OverheadUtilities, BrokenLimbs, Suppressed, MechanicalDamage	Yes
994	5,4	elm; slippery	Ulmus rubra	50%	Fair	NO	5	36	2	3	10	4	Touching utility lines, remove it	Co-DominantStems, Hardware, OverheadUtilities, RootDamage/Decay, CompactedSoils	
995	6, 10	tree of heaven	Ailanthus altissima	35%	Poor	NO	5	28	2	5	17	4	remove it	Co-DominantStems, StreamErosion, FungalFruitingBodies, BrokenLimbs, LargeDW(3+), SmallDW(1-2"), BranchDecay	
996	8,6	tree of heaven	Ailanthus altissima	50%	Fair	NO	10	26	2	5	15	4	invasive species under powerlines, remove it	Vines, Co-DominantStems	Yes
997	12	ash; green	Fraxinus pennsylvanica	0%	Dead	YES	8	36	1	5	18	4	multiple targets remove	Insect/DiseaseProblem	Yes
998	7,7	ash; green	Fraxinus pennsylvanica	0%	Dead	YES	5	36	2	4	15	4	people are targets, remove	Insect/DiseaseProblem	
999	9	ZZ Unknown species	ZZ Unknown species	65%	Good	NO	8	20	1	4	14	2		BuriedRootCollar, Co-DominantStems, SmallDW(1-2")	
1000	7	ZZ Unknown species	ZZ Unknown species	50%	Fair	NO	6	16	1	3	11	2		BuriedRootCollar, BasalDecay, RootDamage/Decay	
1120	16	oak, northern red	Quercus rubra	50%	Fair	NO	7	18	1	7	24	3	toppes	OverheadUtilities, BrokenLimbs, SmallDW(1-2")	Yes
1121	11,11	oak spp.	Quercus spp.	50%	Fair	NO	10	40	2	7	23	3		OverheadUtilities, Co-DominantStems	Yes
1122	9	maple, red	Acer rubrum	65%	Good	NO	5	20	1	4	14	2		OverheadUtilities	Yes
1123	6,5	holly, American	Ilex opaca	50%	Fair	NO	2	10	2	4	12	3	topped	OverheadUtilities	Yes
1124	5	beech, American	Fagus grandifolia	50%	Fair	NO	2	10	1	2	8	3	topped	OverheadUtilities	Yes
1138	20	beech, American	Fagus grandifolia	45%	Fair	NO	15	20	1	9	30	3	topped	OverheadUtilities, Vines	Yes
1139	10	pine, Virginia	Pinus virginiana	0%	Dead	YES	0	14	1	5	15	4			
1140	13	pine, Virginia	Pinus virginiana	70%	Good	NO	5	46	1	6	20	2	gr-3""	GirdlingRootCollamotesize, SmallDW(1-2")	
1141	12	maple, red	Acer rubrum	65%	Good	NO	5	46	1	5	18	2		BrokenLimbs, SmallDW(1-2")	
1142	20	pine, Virginia	Pinus virginiana	65%	Good	NO	10	50	1	9	30	2		LargeDW(3+), BrokenLimbs	
1143	16, 16	tuliptree	Liriodendron tulipifera	60%	Fair	NO	10	54	2	10	34	2		Co-DominantStems, InclBark/WeakUnion	
1144	14	maple, red	Acer rubrum	65%	Good	NO	10	36	1	6	21	2		SmallDW(1-2"), RootDamage/Decay	
1145	8	maple, red	Acer rubrum	60%	Fair	NO	8	24	1	4	12	2		BasalDecay, BrokenLimbs, RootDamage/Decay	
1146	13	maple, red	Acer rubrum	70%	Good	NO	10	50	1	6	20	2		RootDamage/Decay, SmallDW(1-2")	
1147	18	blackgum	Nyssa sylvatica	60%	Fair	NO	15	50	1	8	27	2		BrokenLimbs, LargeDW(3+), SmallDW(1-2"), RootDamage/Decay	
1148	5	dogwood, flowering	Cornus florida	60%	Fair	NO	2	12	1	2	8	2		RootDamage/Decay, SmallDW(1-2")	
1149	5	dogwood, flowering	Cornus florida	70%	Good	NO	2	14	1	2	8	2			
1150	5	dogwood, flowering	Cornus florida	70%	Good	NO	5	10	1	2	8	2		SmallDW(1-2"")	
1151	14	ash, white	Fraxinus americana	50%	Fair	NO	12	50	1	6	21	3		BrokenLimbs, LargeDW(3+), SmallDW(1-2")	
1152	23	cherry, black	Prunus serotina	60%	Fair	NO	20	66	1	10	35	2		LargeDW(3+), BrokenLimbs	
1153	6,4	dogwood, flowering	Cornus florida	50%	Fair	NO	3	12	2	3	11	2		BrokenLimbs, TrunkDecay	
1154	5	dogwood, flowering	Cornus florida	70%	Good	NO	2	10	1	2	8	2			
1155	8,5,5	dogwood, flowering	Cornus florida	60%	Fair	NO	6	16	3	5	16	2		Co-DominantStems, InclBark/WeakUnion	
1156	28	cherry, black	Prunus serotina	60%	Fair	NO	20	66	1	13	42	2		TrunkDecay, LargeDW(3+)	
1157	3,3,5	dogwood, flowering	Cornus florida	60%	Fair	NO	5	12	3	3	10	2		TrunkDecay, SmallDW(1-2")	
1158	4,4,3	dogwood, flowering	Cornus florida	70%	Good	NO	5	12	3	3	10	2			
1159	12,5	locust, black	Robinia pseudoacacia	15%	Critical	NO	10	46	2	6	20	4		Stressed, Co-DominantStems	
1160	17	locust, black	Robinia pseudoacacia	0%	Dead	YES	16	56	1	8	26	4			
1161	6	tuliptree	Liriodendron tulipifera	60%	Fair	NO	5	24	1	3	9	2		SmallDW(1-2"")	
1162	8	locust, black	Robinia pseudoacacia	0%	Dead	YES	5	36	1	4	12	4		SeriousDecline	
1163	18	locust, black	Robinia pseudoacacia	35%	Poor	NO	10	50	1	8	27	4		SeriousDecline	
1164	14	blackgum	Nyssa sylvatica	25%	Poor	NO	10	46	1	6	21	4		SeriousDecline, BrokenLimbs, LargeDW(3+)	
1165	6	maple, red	Acer rubrum	65%	Good	NO	10	32	1	3	9	2		SmallDW(1-2"")	
1166	9	locust, black	Robinia pseudoacacia	60%	Fair	NO	5	40	1	4	14	2		LargeDW(3+), SmallDW(1-2")	
1167	7	blackgum	Nyssa sylvatica	70%	Good	NO	5	22	1	3	11	2		SmallDW(1-2"")	
1168	11	locust, black	Robinia pseudoacacia	60%	Fair	NO	7	46	1	5	17	2		SmallDW(1-2"), LargeDW(3+)	
1169	7	ash, green	Fraxinus pennsylvanica	15%	Critical	NO	0	14	1	3	11	4		SeriousDecline	
1170	11	oak, white	Quercus alba	50%	Fair	NO	10	50	1	5	17	2		SmallDW(1-2"), LargeDW(3+), TrunkDecay	
1171	13, 11	hemlock, eastern	Tsuga canadensis	50%	Fair	NO	10	40	2	8	26	3		Co-DominantStems, LargeDW(3+), Vines, SmallDW(1-2")	
1172	5	beech, American	Fagus grandifolia	70%	Good	NO	3	12	1	2	8	2		SmallDW(1-2"")	
1173	7	beech, American	Fagus grandifolia	40%	Poor	NO	4	14	1	3	11	3		Stressed, LargeDW(3+)	
1174	8	blackgum	Nyssa sylvatica	60%	Fair	NO	10	38	1	4	12	2		Vines, SmallDW(1-2")	
1175	6	beech, American	Fagus grandifolia	60%	Fair	NO	8	10	1	3	9	2		SmallDW(1-2"")	
1176	11	oak, white	Quercus alba	60%	Fair	NO	10	22	1	5	17	2		SmallDW(1-2"")	
1177	18	locust, black	Robinia pseudoacacia	50%	Fair	NO	10	46	1	8	27	2		Vines, Stressed, LargeDW(3+), BrokenLimbs	
1178	6	hickory, pignut	Carya glabra	50%	Fair	NO	2	12	1	3	9	2		Stressed, SmallDW(1-2")	
1179	7	ash, white	Fraxinus americana	25%	Poor	NO	5	12	1	3	11	4	topped	Stressed, SmallDW(1-2"), LargeDW(3+)	
1180	6	hickory, pignut	Carya glabra	70%	Good	NO	3	16	1	3	9	2		Vines	
1181	14, 18, 12	oak, black	Quercus velutina	50%	Fair	NO	20	52	3	12	39	2		Co-DominantStems, InclBark/WeakUnion, LargeDW(3+)	
1201	9, 11	locust, black	Robinia pseudoacacia	50%	Fair	NO	12	50	2	6	21	2		Included Bark/Weak Union, Co-Dominant Stems, Vines	
1202	10,8	pine, eastern white	Pinus strobus	60%	Fair	NO	9	40	2	6	19	2		Included Bark/Weak Union, Co-Dominant Stems	
1203	7	oak, white	Quercus alba	60%	Fair	NO	7	14	1	3	11	2		Suppressed, Excessive Lean	
1204	26	oak, southern red	Quercus falcata	60%	Fair	NO	15	70	1	12	39	2		Excessive Lean	
1205	26	tuliptree	Liriodendron tulipifera	60%	Fair	NO	12	65	1	12	39	2			

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(25)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(25)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
1206	4,5	holly, American	Ilex opaca	60%	Fair	NO	6	20	2	3	10	2		Included Bark/Weak Union, Co-Dominant Stems	
1207	26	tuliptree	Liriodendron tulipifera	65%	Good	NO	15	70	1	12	39	2		Overhead Utilities	
1208	16	tuliptree	Liriodendron tulipifera	40%	Poor	NO	9	70	1	7	24	3		One Sided, Basal Decay, Trunk Decay, Overhead Utilities	
1209	22	tuliptree	Liriodendron tulipifera	60%	Fair	NO	13	85	1	10	33	2		Overhead Utilities	
1210	16	tuliptree	Liriodendron tulipifera	65%	Good	NO	16	75	1	7	24	2		Overhead Utilities	
1211	5	ash, green	Fraxinus pennsylvanica	65%	Good	NO	6	16	1	2	8	2			
1212	14	maple, red	Acer rubrum	65%	Good	NO	10	55	1	6	21	2			
1213	26	tuliptree	Liriodendron tulipifera	60%	Fair	NO	17	90	1	12	39	2		Large DW (3"+), Small DW (1-2")	
1214	8	maple, red	Acer rubrum	60%	Fair	NO	12	45	1	4	12	2		Small DW (1-2")	
1215	3,3	dogwood, flowering	Cornus florida	55%	Fair	NO	5	12	2	2	6	2		Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2")	
1216	7	maple, red	Acer rubrum	60%	Fair	NO	9	30	1	3	11	2		Small DW (1-2")	
1217	24	tuliptree	Liriodendron tulipifera	60%	Fair	NO	17	95	1	11	36	2		Large DW (3"+), Small DW (1-2")	
1218	9	maple, red	Acer rubrum	60%	Fair	NO	12	50	1	4	14	2		Small DW (1-2")	
1219	5	maple, red	Acer rubrum	50%	Fair	NO	8	25	1	2	8	2		Suppressed, Small DW (1-2")	
1220	7	maple, red	Acer rubrum	55%	Fair	NO	8	35	1	3	11	2		Small DW (1-2"), Branch Decay	
1221	20	tuliptree	Liriodendron tulipifera	55%	Fair	NO	11	70	1	9	30	2		Large DW (3"+), Small DW (1-2")	
1222	14	pine, eastern white	Pinus strobus	55%	Fair	NO	9	40	1	6	21	2		One Sided, Large DW (3"+), Small DW (1-2")	
1223	24	pine, eastern white	Pinus strobus	65%	Good	NO	13	50	1	11	36	2		Large DW (3"+), Small DW (1-2")	
1224	15	pine, eastern white	Pinus strobus	45%	Fair	NO	8	25	1	7	23	3	broken top	Excessive Lean, Large DW (3"+), Small DW (1-2")	
1225	9	cherry, black	Prunus serotina	45%	Fair	NO	4	45	1	4	14	2		One Sided, Large DW (3"+), Small DW (1-2"), Stressed	
1226	12	oak, northern red	Quercus rubra	65%	Good	NO	11	70	1	5	18	2		Small DW (1-2")	
1227	7	cherry, black	Prunus serotina	40%	Poor	NO	3	12	1	3	11	3		One Sided, Large DW (3"+), Small DW (1-2"), Stressed, Serious Decline	
1228	33	tuliptree	Liriodendron tulipifera	60%	Fair	NO	23	90	1	15	50	2		Large DW (3"+), Small DW (1-2")	
1229	12,8,7	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	11	40	3	7	24	2		Included Bark/Weak Union, Co-Dominant Stems	
1230	6	maple, red	Acer rubrum	60%	Fair	NO	8	30	1	3	9	2		Basal Decay	
1231	8	locust, black	Robinia pseudoacacia	40%	Poor	NO	8	18	1	4	12	3	topped	Large DW (3"+), Small DW (1-2")	
1232	8	maple, red	Acer rubrum	65%	Good	NO	9	35	1	4	12	2			
1233	5	beech, American	Fagus grandifolia	70%	Good	NO	13	20	1	2	8	2			
1234	14	ZZ Unknown snag	ZZ Unknown snag	0%	Dead	YES	0	10	1	6	21	4			
1235	9	elm, slippery	Ulmus rubra	40%	Poor	NO	10	25	1	4	14	3	topped	Large DW (3"+), Small DW (1-2")	
1236	10	pine, eastern white	Pinus strobus	35%	Poor	NO	7	12	1	5	15	3	topped	One Sided, Small DW (1-2")	
1237	13	pine, eastern white	Pinus strobus	55%	Fair	NO	9	20	1	6	20	2		One Sided, Large DW (3"+), Small DW (1-2"), Overhead Utilities	
1238	5	hickory, mockernut	Carya tomentosa	40%	Poor	NO	6	25	1	2	8	3	topped		
1239	12	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	7	18	1	5	18	2		Large DW (3"+), Small DW (1-2")	
1240	10	ZZ Unknown snag	ZZ Unknown snag	0%	Dead	YES	1	25	1	5	15	4			
1241	9	oak, white	Quercus alba	40%	Poor	NO	7	16	1	4	14	3	topped		
1242	9	hickory, pignut	Carya glabra	70%	Good	NO	12	65	1	4	14	2		Small DW (1-2")	
1243	6	beech, American	Fagus grandifolia	65%	Good	NO	11	35	1	3	9	2			
1244	5	hickory, pignut	Carya glabra	40%	Poor	NO	5	12	1	2	8	3	topped	Small DW (1-2"), Overhead Utilities	
1245	5	hickory, pignut	Carya glabra	40%	Poor	NO	5	12	1	2	8	3	topped	Small DW (1-2"), Overhead Utilities	
1246	9	locust, black	Robinia pseudoacacia	40%	Poor	NO	7	18	1	4	14	3		Trunk Decay, Large DW (3"+), Small DW (1-2"), Broken Limbs, Branch Decay	
1247	9	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	8	12	1	4	14	3	topped	Large DW (3"+), Small DW (1-2"), Low Vigor, Stressed, Overhead Utilities	
1248	36	tuliptree	Liriodendron tulipifera	60%	Fair	NO	21	85	1	16	54	2		Large DW (3"+), Small DW (1-2")	
1249	7	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	7	10	1	3	11	3	topped	Large DW (3"+), Small DW (1-2"), Low Vigor, Stressed, Overhead Utilities	
1250	28	tuliptree	Liriodendron tulipifera	60%	Fair	NO	21	85	1	13	42	2		Large DW (3"+), Small DW (1-2"), Overhead Utilities	
1251	10	oak, black	Quercus velutina	40%	Poor	NO	5	14	1	5	15	3	topped	Overhead Utilities	
1252	28	tuliptree	Liriodendron tulipifera	60%	Fair	NO	20	90	1	13	42	2		Large DW (3"+), Small DW (1-2"), Overhead Utilities	
1253	10	beech, American	Fagus grandifolia	40%	Poor	NO	13	12	1	5	15	3	topped		
1254	7	cherry, black	Prunus serotina	40%	Poor	NO	7	10	1	3	11	3	topped		
1255	30	oak, black	Quercus velutina	60%	Fair	NO	20	85	1	14	45	2		Large DW (3"+), Small DW (1-2")	
1256	10	tuliptree	Liriodendron tulipifera	40%	Poor	NO	10	12	1	5	15	3	topped	Overhead Utilities	
1257	5	hickory, pignut	Carya glabra	65%	Good	NO	5	16	1	2	8	2			
1258	7	hornbeam, American	Carpinus caroliniana	60%	Fair	NO	8	12	1	3	11	2			
1259	5	oak, white	Quercus alba	40%	Poor	NO	4	10	1	2	8	3	topped		
1260	6,5	hornbeam, American	Carpinus caroliniana	40%	Poor	NO	8	12	2	4	12	3	dead lead	Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Serious Decline	
1261	5	hornbeam, American	Carpinus caroliniana	50%	Fair	NO	7	12	1	2	8	2	dead lead	Small DW (1-2"), Serious Decline, Branch Decay	
1262	8	beech, American	Fagus grandifolia	40%	Poor	NO	9	12	1	4	12	3	topped	Small DW (1-2"), Branch Decay, Overhead Utilities	
1263	20	beech, American	Fagus grandifolia	65%	Good	NO	16	60	1	9	30	2	topped	Small DW (1-2"), Branch Decay, Overhead Utilities	
1264	18	tuliptree	Liriodendron tulipifera	60%	Fair	NO	13	90	1	8	27	2		Large DW (3"+), Small DW (1-2")	
1265	22	tuliptree	Liriodendron tulipifera	60%	Fair	NO	14	95	1	10	33	2		Large DW (3"+), Small DW (1-2")	
1266	6	holly, American	Ilex opaca	60%	Fair	NO	4	25	1	3	9	2		Small DW (1-2")	
1267	13	oak, northern red	Quercus rubra	70%	Good	NO	19	70	1	6	20	2		Small DW (1-2")	
1268	7	ZZ Unknown snag	ZZ Unknown snag	0%	Dead	YES	0	12	1	3	11	4			
1269	6	hickory, pignut	Carya glabra	40%	Poor	NO	7	10	1	3	9	3	topped	Small DW (1-2")	
1270	5	hickory, pignut	Carya glabra	40%	Poor	NO	6	10	1	2	8	3	topped	Small DW (1-2")	
1271	5	hornbeam, American	Carpinus caroliniana	40%	Poor	NO	11	12	1	2	8	3	topped	Small DW (1-2"), Overhead Utilities	
1272	5	oak, northern red	Quercus rubra	40%	Poor	NO	4	12	1	2	8	3	topped		
1273	5,5,5,3,3	crapemyrtle, common	Lagerstroemia indica	65%	Good	NO	12	14	5	4	14	2		Co-Dominant Stems, Overhead Utilities	
1274	38	oak, northern red	Quercus rubra	60%	Fair	NO	23	85	1	17	57	2		Overhead Utilities	
1275	6	beech, American	Fagus grandifolia	65%	Good	NO	16	25	1	3	9	2			
1276	6	beech, American	Fagus grandifolia	65%	Good	NO	15	25	1	3	9	2			
1277	19	tuliptree	Liriodendron tulipifera	60%	Fair	NO	14	90	1	9	29	2		Small DW (1-2")	
1278	5	maple, Norway	Acer platanoides	65%	Good	NO	9	45	1	2	8	2		Small DW (1-2")	
1279	6	oak, northern red	Quercus rubra	40%	Poor	NO	6	12	1	3	9	3	topped	Basal Decay, Large DW (3"+), Small DW (1-2")	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(26)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(26)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
1280	5	holly, American	Ilex opaca	50%	Fair	NO	10	14	1	2	8	2			
1281	5	holly, American	Ilex opaca	55%	Fair	NO	10	14	1	2	8	2			
1282	3,2,2,2,2, 2	crapemyrtle, common	Lagerstroemia indica	60%	Fair	NO	4	14	6	2	8	2		Co-Dominant Stems, Overhead Utilities	
1283	20	tuliptree	Liriodendron tulipifera	65%	Good	NO	14	80	1	9	30	2		Small DW (1-2")	
1284	11	hickory, pignut	Carya glabra	65%	Good	NO	9	65	1	5	17	2		Small DW (1-2")	
1285	7	hemlock, eastern	Tsuga canadensis	45%	Fair	NO	10	14	1	3	11	2		Suppressed, Serious Decline	
1286	10	hickory, pignut	Carya glabra	65%	Good	NO	11	60	1	5	15	2		Small DW (1-2")	
1287	35	oak, white	Quercus alba	60%	Fair	NO	16	70	1	16	53	2		Large DW (3"+), Small DW (1-2")	
1288	7	maple, red	Acer rubrum	40%	Poor	NO	7	16	1	3	11	3		Small DW (1-2"), Insect/Disease Problem	
1289	8,5	tuliptree	Liriodendron tulipifera	15%	Critical	NO	2	25	2	4	14	4		Basal Decay, Trunk Decay, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Low Vigor, Stressed, Serious Decline	
1290	5,3	holly, American	Ilex opaca	60%	Fair	NO	5	12	2	3	9	2		Co-Dominant Stems, Small DW (1-2")	
1291	3,4,5	holly, American	Ilex opaca	60%	Fair	NO	5	12	3	3	11	2		Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2"), Overhead Utilities	
1292	6	holly, American	Ilex opaca	60%	Fair	NO	3	10	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1293	5	holly, American	Ilex opaca	60%	Fair	NO	3	10	1	2	8	2		Small DW (1-2"), Broken Limbs, Overhead Utilities	
1294	3,3	holly, American	Ilex opaca	60%	Fair	NO	3	10	2	2	6	2		Co-Dominant Stems, Small DW (1-2"), Broken Limbs, Overhead Utilities	
1295	4,5	holly, American	Ilex opaca	60%	Fair	NO	3	10	2	3	10	2		Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2"), Overhead Utilities	
1296	3,3	holly, American	Ilex opaca	60%	Fair	NO	4	10	2	2	6	2		Co-Dominant Stems, Small DW (1-2"), Overhead Utilities	
1297	5	holly, American	Ilex opaca	60%	Fair	NO	4	10	1	2	8	2		Small DW (1-2"), Overhead Utilities	
1298	32	tuliptree	Liriodendron tulipifera	60%	Fair	NO	14	80	1	14	48	2		Small DW (1-2")	
1299	22	beech, American	Fagus grandifolia	65%	Good	NO	13	65	1	10	33	2		Small DW (1-2")	
1300	18	beech, American	Fagus grandifolia	65%	Good	NO	16	65	1	8	27	2		Small DW (1-2")	
1301	9	hickory, pignut	Carya glabra	65%	Good	NO	6	60	1	4	14	2		Small DW (1-2")	
1302	8	pine, eastern white	Pinus strobus	55%	Fair	NO	8	50	1	4	12	2		Narrow Crown, Small DW (1-2")	
1303	6	pear, Callery	Pyrus calleryana	40%	Poor	NO	6	35	1	3	9	3		Excessive Lean	
1304	8,6,3,2	holly, American	Ilex opaca	70%	Good	NO	11	35	4	5	16	2		Small DW (1-2"), Overhead Utilities	
1305	28	tuliptree	Liriodendron tulipifera	65%	Good	NO	18	85	1	13	42	2		Small DW (1-2")	
1306	15,17	tuliptree	Liriodendron tulipifera	55%	Fair	NO	21	70	2	10	34	2		Co-Dominant Stems, Small DW (1-2"), Vines	
1307	8,6,6	crapemyrtle, common	Lagerstroemia indica	60%	Fair	NO	15	25	3	5	17	2		Full Crown, Included Bark/Weak Union, Co-Dominant Stems	
1308	5,5,6,6,7, 5,5,6,5	crapemyrtle, common	Lagerstroemia indica	60%	Fair	NO	16	25	9	8	25	2		Co-Dominant Stems	
1309	3,3,5,6,6, 6,7,6,6,5	crapemyrtle, common	Lagerstroemia indica	60%	Fair	NO	16	30	10	8	26	2		Co-Dominant Stems	
1310	30	beech, American	Fagus grandifolia	60%	Fair	NO	20	75	1	14	45	2		Large DW (3"+), Small DW (1-2")	
1311	16	tuliptree	Liriodendron tulipifera	55%	Fair	NO	11	75	1	7	24	2		Narrow Crown, Large DW (3"+), Small DW (1-2")	
1312	16	tuliptree	Liriodendron tulipifera	60%	Fair	NO	15	75	1	7	24	2		Large DW (3"+), Small DW (1-2")	
1313	21	tuliptree	Liriodendron tulipifera	60%	Fair	NO	16	85	1	9	32	2		Large DW (3"+), Small DW (1-2")	
1314	10	spruce, Norway	Picea abies	60%	Fair	NO	13	50	1	5	15	2		Small DW (1-2")	
1315	2,2,2,2,2	crapemyrtle, common	Lagerstroemia indica	60%	Fair	NO	9	16	5	2	7	2		Excessive Lean, Co-Dominant Stems	
1316	6	hickory, pignut	Carya glabra	60%	Fair	NO	6	45	1	3	9	2			
1317	18	cherry, black	Prunus serotina	55%	Fair	NO	11	60	1	8	27	2		Excessive Lean, Large DW (3"+), Small DW (1-2")	
1318	9	beech, American	Fagus grandifolia	60%	Fair	NO	14	45	1	4	14	2		Large DW (3"+), Small DW (1-2"), Vines	
1319	5,5	holly, American	Ilex opaca	60%	Fair	NO	6	25	2	3	11	2		Co-Dominant Stems, Small DW (1-2")	
1320	2,2,2	holly, American	Ilex opaca	60%	Fair	NO	5	12	3	2	5	2		Co-Dominant Stems	
1321	12	beech, American	Fagus grandifolia	50%	Fair	NO	12	16	1	5	18	2		Small DW (1-2")	
1322	9	maple, red	Acer rubrum	40%	Poor	NO	8	16	1	4	14	3		Large DW (3"+), Small DW (1-2"), Low Vigor, Stressed	
1323	5	maple, red	Acer rubrum	60%	Fair	NO	8	30	1	2	8	2		Small DW (1-2")	
1324	23	tuliptree	Liriodendron tulipifera	55%	Fair	NO	13	85	1	10	35	2		Large DW (3"+), Small DW (1-2")	
1325	12	beech, American	Fagus grandifolia	60%	Fair	NO	14	55	1	5	18	2		Small DW (1-2")	
1326	5	beech, American	Fagus grandifolia	50%	Fair	NO	9	25	1	2	8	2		Narrow Crown, Small DW (1-2"), Low Vigor, Vines	
1327	7	beech, American	Fagus grandifolia	65%	Good	NO	14	45	1	3	11	2		Small DW (1-2")	
1328	32	tuliptree	Liriodendron tulipifera	60%	Fair	NO	15	105	1	14	48	2		Large DW (3"+), Small DW (1-2")	
1329	10	beech, American	Fagus grandifolia	60%	Fair	NO	13	45	1	5	15	2		Small DW (1-2")	
1330	12	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	11	18	1	5	18	2		Excessive Lean, Basal Decay	
1331	5	oak, white	Quercus alba	55%	Fair	NO	5	16	1	2	8	2			
1332	10	beech, American	Fagus grandifolia	40%	Poor	NO	13	20	1	5	15	3		Small DW (1-2"), Insect/Disease Problem	
1333	26	tuliptree	Liriodendron tulipifera	60%	Fair	NO	15	85	1	12	39	2		Large DW (3"+), Small DW (1-2")	
1334	16	beech, American	Fagus grandifolia	60%	Fair	NO	14	60	1	7	24	2		Surface Roots, Small DW (1-2")	
1335	24	tuliptree	Liriodendron tulipifera	60%	Fair	NO	14	100	1	11	36	2		Large DW (3"+), Small DW (1-2")	
1336	16	beech, American	Fagus grandifolia	60%	Fair	NO	16	70	1	7	24	2		Surface Roots, Basal Decay, Small DW (1-2"), Fungal Fruiting Bodies	
1337	22	beech, American	Fagus grandifolia	60%	Fair	NO	16	65	1	10	33	2		Surface Roots, Small DW (1-2")	
1338	25	beech, American	Fagus grandifolia	50%	Fair	NO	17	55	1	11	38	2		Root Damage/Decay, Basal Decay, Small DW (1-2")	
1339	6	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1340	4,4	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	2	3	8	2		Co-Dominant Stems, Small DW (1-2"), Overhead Utilities	
1341	6	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1342	6	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1343	6	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1344	2,2,2,2	holly, American	Ilex opaca	50%	Fair	NO	4	10	4	2	6	3		Co-Dominant Stems, Small DW (1-2")	
1345	5	ash, green	Fraxinus pennsylvanica	55%	Fair	NO	8	25	1	2	8	2		Small DW (1-2")	
1346	20	hickory, pignut	Carya glabra	60%	Fair	NO	11	70	1	9	30	2		Small DW (1-2")	
1347	9	tuliptree	Liriodendron tulipifera	55%	Fair	NO	9	65	1	4	14	2		Narrow Crown, Small DW (1-2")	
1348	22	beech, American	Fagus grandifolia	65%	Good	NO	16	75	1	10	33	2		Surface Roots, Small DW (1-2")	
1349	14	tuliptree	Liriodendron tulipifera	40%	Poor	NO	9	65	1	6	21	3		Narrow Crown, Excessive Lean, Small DW (1-2")	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(27)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(27)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
1350	10	holly, American	Ilex opaca	60%	Fair	NO	11	45	1	5	15	2		Small DW (1-2")	
1351	28	hickory, pignut	Carya glabra	60%	Fair	NO	13	70	1	13	42	2		Mechanical Damage, Small DW (1-2")	
1352	14	beech, American	Fagus grandifolia	55%	Fair	NO	18	35	1	6	21	2		Surface Roots, Small DW (1-2"), Overhead Utilities	
1353	20	beech, American	Fagus grandifolia	70%	Good	NO	18	70	1	9	30	2		Small DW (1-2"), Overhead Utilities	
1354	20	tuliptree	Liriodendron tulipifera	55%	Fair	NO	13	75	1	9	30	2		Narrow Crown, Excessive Lean, Small DW (1-2"), Stressed	
1355	26	ZZ Unknown snag	ZZ Unknown snag	0%	Dead	YES	0	25	1	12	39	4			
1356	6	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1357	6	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1358	5	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	6	18	1	2	8	2		Small DW (1-2"), Overhead Utilities	
1359	4,3	arborvitae, eastern	Thuja occidentalis	60%	Fair	NO	5	16	2	2	8	2		Small DW (1-2"), Overhead Utilities	
1360	12	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	7	16	1	5	18	2	topped	Small DW (1-2"), Overhead Utilities	
1361	5	redcedar, eastern	Juniperus virginiana	30%	Poor	NO	4	10	1	2	8	3	topped	Small DW (1-2"), Low Vigor, Stressed, Serious Decline, Overhead Utilities	
1362	6	redcedar, eastern	Juniperus virginiana	50%	Fair	NO	7	16	1	3	9	2		Small DW (1-2"), Overhead Utilities	
1363	5	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	5	16	1	2	8	2		One Sided, Small DW (1-2"), Overhead Utilities	
1364	6	redcedar, eastern	Juniperus virginiana	60%	Fair	NO	5	16	1	3	9	2		One Sided, Small DW (1-2"), Overhead Utilities	
1365	34	oak, southern red	Quercus falcata	55%	Fair	NO	25	90	1	15	51	2		Large DW (3"+), Small DW (1-2")	
1366	28	beech, American	Fagus grandifolia	60%	Fair	NO	20	80	1	13	42	2		One Sided, Small DW (1-2")	
1367	22	beech, American	Fagus grandifolia	60%	Fair	NO	19	70	1	10	33	2		Large DW (3"+), Small DW (1-2")	
1368	28	tuliptree	Liriodendron tulipifera	60%	Fair	NO	16	95	1	13	42	2	gr 2"x 15"	Narrow Crown, Surface Roots, Girdling Roots, Small DW (1-2"), Stressed	
1369	20	beech, American	Fagus grandifolia	60%	Fair	NO	15	65	1	9	30	2		Large DW (3"+), Small DW (1-2"), Branch Decay	
1370	18	beech, American	Fagus grandifolia	65%	Good	NO	14	65	1	8	27	2		Large DW (3"+), Small DW (1-2")	
1371	24	tuliptree	Liriodendron tulipifera	55%	Fair	NO	15	90	1	11	36	2		Narrow Crown, Large DW (3"+), Small DW (1-2")	
1372	3,4	dogwood spp.	Cornus spp.	0%	Dead	YES	1	8	2	2	8	4			
1373	6	holly, American	Ilex opaca	60%	Fair	NO	6	20	1	3	9	2		Overhead Utilities	
1374	11,6	ZZ Unknown dead tree	ZZ Unknown dead tree	0%	Dead	YES	2	18	2	6	19	4			
1375	7	ash, green	Fraxinus pennsylvanica	30%	Poor	NO	3	8	1	3	11	3	topped	Overhead Utilities	
1376	5	oak, northern red	Quercus rubra	20%	Critical	NO	2	10	1	2	8	3	topped	Overhead Utilities	
1377	38	oak, northern red	Quercus rubra	45%	Fair	NO	19	75	1	17	57	2		Large DW (3"+), Small DW (1-2"), Vines, Overhead Utilities	
1378	5	ash, green	Fraxinus pennsylvanica	10%	Critical	NO	1	8	1	2	8	3	topped	Excessive Lean, Vines, Overhead Utilities	
1379	11,7	maple, red	Acer rubrum	35%	Poor	NO	3	16	2	6	20	3		Trunk Decay, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Low Vigor, Stressed, Serious Decline, Branch Decay	
1380	22	tuliptree	Liriodendron tulipifera	60%	Fair	NO	11	85	1	10	33	2		Large DW (3"+), Small DW (1-2")	
1381	14	beech, American	Fagus grandifolia	70%	Good	NO	14	65	1	6	21	2		Small DW (1-2")	
1382	20	tuliptree	Liriodendron tulipifera	65%	Good	NO	11	85	1	9	30	2		Large DW (3"+), Small DW (1-2")	
1383	38	oak, northern red	Quercus rubra	60%	Fair	NO	20	85	1	17	57	2	phototropic lean	Excessive Lean, Large DW (3"+), Small DW (1-2")	
1384	9	beech, American	Fagus grandifolia	55%	Fair	NO	10	25	1	4	14	2		Small DW (1-2")	
1385	8	oak, white	Quercus alba	60%	Fair	NO	6	40	1	4	12	2		Narrow Crown, Small DW (1-2")	
1386	24	tuliptree	Liriodendron tulipifera	55%	Fair	NO	14	75	1	11	36	2		Large DW (3"+), Small DW (1-2")	
1387	10	maple, red	Acer rubrum	60%	Fair	NO	11	40	1	5	15	2		Vines	
1388	10	oak, northern red	Quercus rubra	65%	Good	NO	9	30	1	5	15	2		Small DW (1-2")	
1389	42	oak, northern red	Quercus rubra	50%	Fair	NO	22	100	1	19	63	2	phototropic growth pattern to one side; basal cavity 1'x 10" x8"	Basal Decay, Large DW (3"+), Small DW (1-2"), Vines, Overhead Utilities	
1390	9	mulberry, white	Morus alba	50%	Fair	NO	6	35	1	4	14	2		Large DW (3"+), Small DW (1-2"), Vines	
1391	8	cherry, sweet	Prunus avium	55%	Fair	NO	9	30	1	4	12	2		Large DW (3"+), Small DW (1-2"), Vines	
1392	7	tuliptree	Liriodendron tulipifera	50%	Fair	NO	4	45	1	3	11	2		Narrow Crown	
1393	7	tuliptree	Liriodendron tulipifera	55%	Fair	NO	4	35	1	3	11	2		Narrow Crown, Small DW (1-2"), Vines	
1394	6	maple, red	Acer rubrum	60%	Fair	NO	9	30	1	3	9	2		Large DW (3"+), Small DW (1-2")	
1395	21	tuliptree	Liriodendron tulipifera	60%	Fair	NO	16	90	1	9	32	2		Narrow Crown, Small DW (1-2"), Vines	
1396	12, 14	maple, red	Acer rubrum	60%	Fair	NO	9	70	2	8	28	2		Co-Dominant Stems, Large DW (3"+), Small DW (1-2")	
1397	7,8,4	maple, red	Acer rubrum	60%	Fair	NO	13	65	3	5	17	2		Co-Dominant Stems, Large DW (3"+), Small DW (1-2")	
1398	5	beech, American	Fagus grandifolia	60%	Fair	NO	7	30	1	2	8	2		One Sided	
1399	5	hickory, pignut	Carya glabra	70%	Good	NO	11	35	1	2	8	2		Small DW (1-2")	
1400	5	beech, American	Fagus grandifolia	65%	Good	NO	11	25	1	2	8	2		One Sided	
1401	10	tuliptree	Liriodendron tulipifera	65%	Good	NO	12	50	1	5	15	2			
1402	7	maple, red	Acer rubrum	65%	Good	NO	7	35	1	3	11	2		Small DW (1-2")	
1403	36	oak, northern red	Quercus rubra	60%	Fair	NO	19	85	1	16	54	2		Large DW (3"+), Small DW (1-2")	
1404	7	hickory, mockernut	Carya tomentosa	60%	Fair	NO	6	30	1	3	11	2		One Sided, Small DW (1-2")	
1405	10	hickory, pignut	Carya glabra	60%	Fair	NO	10	60	1	5	15	2		One Sided, Small DW (1-2")	
1406	12	beech, American	Fagus grandifolia	50%	Fair	NO	14	40	1	5	18	2	misshapen top	Small DW (1-2")	
1407	5	hornbeam, American	Carpinus caroliniana	60%	Fair	NO	8	12	1	2	8	2			
1408	32	oak, northern red	Quercus rubra	60%	Fair	NO	18	80	1	14	48	2		Large DW (3"+), Small DW (1-2"), Overhead Utilities	
1409	18	tuliptree	Liriodendron tulipifera	55%	Fair	NO	14	90	1	8	27	2		Large DW (3"+), Small DW (1-2")	
1410	5	cherry, black	Prunus serotina	50%	Fair	NO	6	35	1	2	8	2			
5000	36	pine, eastern white	Pinus strobus	65%	Good	NO	15	76	1	16	54	2	upright scaffold branch	SmallDW(1-2"), LargeDW(3+), CompactedSoils, OverheadUtilities, Vines	
6000	7	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	6	18	1	3	11	2		CompactedSoils, OverheadUtilities, Suppressed, Co-DominantStems, SmallDW(1-2")	
7000	23	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	7	55	1	10	35	2	missing bark	Small DW (1-2")	
7001	10	redcedar, eastern	Juniperus virginiana	65%	Good	NO	6	35	1	5	15	2		Small DW (1-2")	
7002	6,6,7,8	tree of heaven	Ailanthus altissima	60%	Fair	NO	16	30	4	6	20	3		Included Bark/Weak Union, Co-Dominant Stems	
7003	5,10,10,4	maple, Japanese	Acer palmatum	65%	Good	NO	16	20	4	7	23	2		Surface Roots, Co-Dominant Stems	
7004	6,3,2,1	holly, Chinese	Ilex comuta	55%	Fair	NO	5	25	4	3	11	2		Basal Decay, Co-Dominant Stems	
7005	8	holly, Chinese	Ilex comuta	60%	Fair	NO	4	25	1	4	12	2		Small DW (1-2")	
7006	2,2,1,1,1, 1,1,2	citrus spp.	Citrus spp.	35%	Poor	NO	6	10	8	2	6	3	trifoliata	Suppressed, Co-Dominant Stems, Low Vigor	
7007	10	redcedar, eastern	Juniperus virginiana	55%	Fair	NO	6	35	1	5	15	2		Large DW (3"+), Small DW (1-2")	
7008	7	holly, Chinese	Ilex comuta	55%	Fair	NO	4	25	1	3	11	2		Suppressed, Stressed, Vines	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(28)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(28)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

TOOLE DESIGN
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

EXISTING TREE CONDITION CHART

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Dead Tree (Y/N)	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Priority (1-4)	Additional Notes	Condition Notes	Tree to be Removed
7009	9	maple, Norway	Acer platanoides	50%	Fair	NO	6	30	1	4	14	2		Suppressed, Stressed, Vines, Overhead Utilities	
7010	3,2	locust, black	Robinia pseudoacacia	20%	Critical	NO	1	4	2	2	5	4	topped w/ sprouts	Overhead Utilities	
7011	6	maple, Norway	Acer platanoides	20%	Critical	NO	4	16	1	3	9	3	topped e/ sptouts	Suppressed, Stressed, Vines, Overhead Utilities	
7012	9	locust, black	Robinia pseudoacacia	20%	Critical	NO	2	10	1	4	14	3	topped w/ sprouts	Stressed, Overhead Utilities	
7013	12	redcedar, eastern	Juniperus virginiana	40%	Poor	NO	7	35	1	5	18	3	tag 747	Suppressed, Large DW (3"+), Small DW (1-2"), Stressed, Vines	
7014	4	devils-walkingstick	Aralia spinosa	60%	Fair	NO	5	25	1	2	6	2			
7015	4	devils-walkingstick	Aralia spinosa	60%	Fair	NO	3	25	1	2	6	2			
7016	4	devils-walkingstick	Aralia spinosa	20%	Critical	NO	1	10	1	2	6	3	topped w/ sprouts	Low Vigor, Stressed, Overhead Utilities	
7017	4	devils-walkingstick	Aralia spinosa	20%	Critical	NO	1	10	1	2	6	3	topped w/ sprouts	Low Vigor, Stressed, Overhead Utilities	
7018	2	devils-walkingstick	Aralia spinosa	55%	Fair	NO	2	10	1	1	3	2		Suppressed	
7019	9,6	locust, black	Robinia pseudoacacia	60%	Fair	NO	4	40	2	5	16	2		Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2")	
7020	10,4	cherry, black	Prunus serotina	45%	Fair	NO	5	12	2	5	16	3		Excessive Lean, Co-Dominant Stems, Overhead Utilities	
7021	5	locust, black	Robinia pseudoacacia	50%	Fair	NO	4	30	1	2	8	2		Small DW (1-2"), Low Vigor	
7022	3	maple, red	Acer rubrum	40%	Poor	NO	3	20	1	1	5	3		Suppressed, Low Vigor, Stressed, Vines	
7023	2,6,5	maple, red	Acer rubrum	60%	Fair	NO	6	40	3	4	12	2		Co-Dominant Stems, Small DW (1-2")	
7024	6,5,3	cherry, black	Prunus serotina	50%	Fair	NO	6	30	3	4	13	2	3" lead dead	Co-Dominant Stems, Small DW (1-2"), Vines	
7025	7	cherry, black	Prunus serotina	25%	Poor	NO	2	14	1	3	11	3	topped w/ sprouts	Small DW (1-2"), Vines, Overhead Utilities	
7026	5	cherry, black	Prunus serotina	60%	Fair	NO	4	20	1	2	8	2		Small DW (1-2"), Vines	
7027	7	cherry, black	Prunus serotina	25%	Poor	NO	2	12	1	3	11	3	topped w/ sprouts	Small DW (1-2"), Vines, Overhead Utilities	
7028	8,5	cherry, black	Prunus serotina	25%	Poor	NO	2	10	2	4	14	3	topped w/ sprouts	Co-Dominant Stems, Small DW (1-2"), Vines, Overhead Utilities	
7029	7	cherry, black	Prunus serotina	25%	Poor	NO	2	10	1	3	11	3	topped w/ sprouts	Small DW (1-2"), Vines, Overhead Utilities	
7030	4,3	tuliptree	Liriodendron tulipifera	25%	Poor	NO	2	10	2	2	8	3	topped w/ sprouts	Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2"), Vines, Overhead Utilities	
7031	12	maple, red	Acer rubrum	60%	Fair	NO	5	50	1	5	18	2		Vines, Overhead Utilities	
7032	12	maple, red	Acer rubrum	60%	Fair	NO	6	50	1	5	18	2		Small DW (1-2"), Overhead Utilities	
7033	14,14	maple, red	Acer rubrum	60%	Fair	NO	6	65	2	9	30	2		Co-Dominant Stems, Small DW (1-2"), Overhead Utilities	
7034	16	tuliptree	Liriodendron tulipifera	65%	Good	NO	10	80	1	7	24	2		Small DW (1-2")	
7035	14	tuliptree	Liriodendron tulipifera	40%	Poor	NO	5	70	1	6	21	3		Small DW (1-2"), Low Vigor, Stressed, Overhead Utilities	
7036	5,3,3	cherry, black	Prunus serotina	30%	Poor	NO	5	12	3	3	10	3	topped w/ sprouts	Co-Dominant Stems, Overhead Utilities	
7037	34	maple, red	Acer rubrum	55%	Fair	NO	18	75	1	15	51	2	tag 762	Overhead Utilities	
7038	3	yew spp.	Taxus spp.	60%	Fair	NO	5	10	1	1	5	2			
7039	32,31	maple, red	Acer rubrum	50%	Fair	NO	25	60	2	20	67	2		Surface Roots, Co-Dominant Stems, Mechanical Damage, Large DW (3"+), Small DW (1-2")	

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(29)

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

NOTE:
REFER TO TREE PRESERVATION PLANS FOR EXISTING TREE PRESERVATION MATERIALS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

PROJECT	SHEET NO.
U000-151-R94	20(29)

FINAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.