FAIRFAX CITY

CITY OF FAIRFAX
DEPARTMENT OF PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED BLENHEIM BOULEVARD MULTIMODAL IMPROVEMENTS

COVER SHEET FOR VOLUME 2

ROADWAY PLAN & PROFILE SHEETS THRU EXISTING TREE PLAN

FINAL PLANS
JANUARY 2026

VOLUME KEY

VOLUME 1 (Pages 1 thru 213)	1	Title Sheet
	1A	Project Location Map
	1B Series	Project Index of Sheets
	1C - 1D Series	Not Used
	1E Series	Right of Way Data and Demolition Summary
	1F	Survey Control and Traverse Information
	1G Series	Geometric Information
	1H Series	Intersection, Curb Ramp, and Bus Stop Details
	1I Series	Not Used
	1J - 1N Series	TMP/SOC Plan
	1O Series	Not Used
	1P - 1R Series	Erosion and Sedimont Control Plan
	1S Series	Not Used
	1T Series	Underground Utility Test Hole Information
	2	General Notes
	2A Series	Typical Sections, Geotechnical Recommendations, and Details
	2B Series	Curb Return Profiles
	2C - 2E Series	Not Used
	2F - 2J Series	Stormwater and Drainage Plan
VOLUME 2 (Pages 214 thru 350)	3 - 14 Series	Roadway Plan and Profile Sheets
	15 Series	Pavement Marking and Signing Plan
	16 Series	Traffic Signal Plan
	17 Series	Retaining Wall Plan
	18 Series	Roadway Lighting Plan
	19 Series	Landscape Plan (Bid Alternate 1)
	20 Series	Existing Tree Plan
VOLUME 3 (Pages 351 thru 481)	21 Series	Fairfax Water Plan
	22 Series	Sanitary Sewer Plan
	23 Series	Utility Pole Relocation Plans
	24 Series	Dry Utility Plans
	25 Series	Tree Preservation Plan
	26 Series	Wayfinding Sign Plan (Bid Alternate 2)
	X Series	Blenheim Boulevard Cross Sections

TABLE OF CONTENTS - VOLUME 2

Sheet No.	Sheet Description	Page No.
3 - 14 Series	Plan and Profile Sheets	
3	Plan Sheet (Sta.100+00 to 104+75)	214
3A	Profile Sheet (Sta.100+00 to 104+75)	215
4	Plan Sheet (Sta.104+75 to 111+50)	216
4A	Profile Sheet (Sta.104+75 to 111+50)	217
4B	Side Road and Entrance Profile Sheet (Sta.104+75 to 111+50)	218
5	Plan Sheet (Sta.111+50 to 119+00)	219
5A	Profile Sheet (Sta.111+50 to 119+00)	220
5B	Side Road and Entrance Profile Sheet (Sta.111+50 to 119+00)	221
6	Plan Sheet (Sta.119+00 to 125+00)	222
6A	Profile Sheet (Sta.119+00 to 125+00)	223
6B	Side Road and Entrance Profile Sheet (Sta.119+00 to 125+00)	224
7	Plan Sheet (Sta.125+00 to 133+75)	225
7A	Profile Sheet (Sta.125+00 to 133+75)	226
7B	Side Road and Entrance Profile Sheet (Sta.125+00 to 133+75)	227
8	Plan Sheet (Sta.133+75 to 140+75)	228
8A	Profile Sheet (Sta.133+75 to 140+75)	229
8B	Side Road and Entrance Profile Sheet (Sta.133+75 to 140+75)	230
9	Plan Sheet (Sta.140+75 to 148+25)	231
9A	Profile Sheet (Sta.140+75 to 148+25)	232
9B	Side Road and Entrance Profile Sheet (Sta.140+75 to 148+25)	233
10	Plan Sheet (Sta.148+25 to 155+00)	234
10A	Profile Sheet (Sta.148+25 to 155+00)	235
10B	Side Road and Entrance Profile Sheet (Sta.148+25 to 155+00)	236
11	Plan Sheet (Sta.155+00 to 162+00)	237
11A	Profile Sheet (Sta.155+00 to 162+00)	238
11B	Side Road and Entrance Profile Sheet (Sta.155+00 to 162+00)	239
12	Plan Sheet (Sta.162+00 to 169+25)	240
12A	Profile Sheet (Sta.162+00 to 169+25)	241
12B	Side Road and Entrance Profile Sheet (Sta.162+00 to 169+25)	242
13	Plan Sheet (Sta.169+25 to 173+75)	243
13A	Profile Sheet (Sta.169+25 to 173+75)	244
13B	Side Road and Entrance Profile Sheet (Sta.169+25 to 173+75)	245
14	Plan Sheet (Sta.173+75 to 180+97)	246
14A	Profile Sheet (Sta.173+75 to 180+97)	247
14B	Side Road Profile Sheet (Sta.173+75 to 180+97)	248
15 Series	Pavement Marking and Signing Plan	
15	Pavement Marking and Signing Plan: Sign Schedule	249
15(1)	Pavement Marking and Signing Plan: Sign Schedule	250
15(2)	Pavement Marking and Signing Plan: Pavement Marking Legend	251
15(3)	Pavement Marking and Signing Plan (Sta.100+00 to 105+25)	252
15(4)	Pavement Marking and Signing Plan (Sta.105+25 to 111+50)	253
15(5)	Pavement Marking and Signing Plan (Sta.111+50 to 118+00)	254
15(6)	Pavement Marking and Signing Plan (Sta.118+00 to 125+00)	255
15(7)	Pavement Marking and Signing Plan (Sta.125+00 to 132+50)	256
15(8)	Pavement Marking and Signing Plan (Sta.132+50 to 140+00)	257
15(9)	Pavement Marking and Signing Plan (Sta.140+00 to 147+25)	258
15(10)	Pavement Marking and Signing Plan (Sta.147+25 to 154+00)	259
15(11)	Pavement Marking and Signing Plan (Sta.154+00 to 161+00)	260
15(12)	Pavement Marking and Signing Plan (Sta.154+00 to 161+00)	261
15(13)	Pavement Marking and Signing Plan (Sta.167+00 to 173+00)	262
15(14)	Pavement Marking and Signing Plan (Sta.173+00 to 180+00)	263
15(15)	Pavement Marking and Signing Plan	264
15(16)	Pavement Marking and Signing Plan: Details	265
16	Traffic Signal Index of Sheets, General Notes, & Legends	266
16(1)	Pedestrian Actuation Installation Details	267
16(2)	Not Used	
16(3)	Traffic Signal Modification Plan - Blenheim Blvd & Layton Hall Dr	268
17 Series	Retaining Wall Plan	
17	Not Used	
17A	Gravity Wall Details (Sheet 1 of 2)	269
17B	Gravity Wall Details (Sheet 2 of 2)	270
17(1)	Timber Wall General Notes and Details	271
17(2)	Retaining Wall T3 - Plan and Profile	272
17(3)	Retaining Wall B - Plan and Profile	273
17(4)	Retaining Wall C - Plan and Profile	274
17(5)	Not Used	
17(6)	Retaining Wall D - Plan and Profile	275
17(7)	Retaining Wall E - Plan and Profile	276
18 Series	Roadway Lighting Plan	
18	Roadway Lighting Index of Sheets and Project Location Map	277
18(1)	Roadway Lighting Plan General Notes	278
18(1A)	Roadway Lighting Design Criteria & Statistical Calculations	279
18(1B)	Roadway Lighting Luminaire Specifications	280
18(1C)	Roadway Lighting Pole Specifications	281
18(1D)	Combination Lighting Pole Specifications	282
18(1E)	Decorative Lighting Pole Specifications	283
18(1F)	Roadway Lighting Panelboard Details	284
18(1G)	Roadway Lighting Panelboard Details	285
18(1H)	Roadway Lighting Typicals	286
18(1I)	Not Used	
18(1J)	Foundation Details for Pedestrian/Street Light Poles	287
18(2)	Roadway Lighting Inventory	288
18(2(1))	Roadway Lighting Inventory	289
18(2(2))	Roadway Lighting Inventory	290
18(2(3))	Roadway Lighting Inventory	291
18(2(4))	Roadway Lighting Inventory	292
18(2(5))	Roadway Junction Box Inventory	293
18(3)	Roadway Lighting Plan	294
18(4)	Roadway Lighting Plan	295
18(5)	Roadway Lighting Plan	296
18(6)	Roadway Lighting Plan	297
18(7)	Roadway Lighting Plan	298
18(8)	Roadway Lighting Plan	299
18(9)	Roadway Lighting Plan	300
18(10)	Roadway Lighting Plan	301
18(11)	Roadway Lighting Plan	302
18(12)	Roadway Lighting Plan	303
18(13)	Roadway Lighting Plan	304
18(14)	Roadway Lighting Plan	305
19 Series	Landscape Plan (Bid Alternate 1)	
19	Landscape Plan (Bid Alternate 1)	306
19(1)	Landscape Plan (Bid Alternate 1)	307
19(2)	Landscape Plan (Bid Alternate 1)	308
19(3)	Landscape Plan (Bid Alternate 1)	309
19(4)	Landscape Plan (Bid Alternate 1)	310
19(5)	Landscape Plan (Bid Alternate 1)	311
19(6)	Landscape Plan (Bid Alternate 1)	312
19(7)	Landscape Plan (Bid Alternate 1)	313
19(8)	Landscape Plan (Bid Alternate 1)	314
19(9)	Landscape Plan (Bid Alternate 1)	315
19(10)	Landscape Plan (Bid Alternate 1)	316
19(11)	Landscape Plan (Bid Alternate 1)	317
19(12)	Landscape Detail Sheet (Bid Alternate 1)	318
19(13)	Landscape Detail Sheet (Bid Alternate 1)	319
19(14)	Landscape Detail Sheet (Bid Alternate 1)	320
20 Series	Existing Tree Plan	
20	Existing Tree Plan (Sta.100 to 105+25)	321
20(1)	Existing Tree Plan (Sta.105+25 to 111+50)	322
20(2)	Existing Tree Plan (Sta.111+50 to 118+00)	323
20(3)	Existing Tree Plan (Sta.118+00 to 125+00)	324
20(4)	Existing Tree Plan (Sta.125+00 to 132+50)	325
20(5)	Existing Tree Plan (Sta.132+50 to 140+00)	326
20(6)	Existing Tree Plan (Sta.140+00 to 147+25)	327
20(7)	Existing Tree Plan (Sta.147+25 to 154+00)	328
20(8)	Existing Tree Plan (Sta.154+00 to 161+00)	329
20(9)	Existing Tree Plan (Sta.161+00 to 167+00)	330
20(10)	Existing Tree Plan (Sta.167+00 to 173+00)	331
20(11)	Existing Tree Plan (Sta.173+00 to 180+00)	332
20(12)	Existing Tree Condition Chart	333
20(13)	Existing Tree Condition Chart	334
20(14)	Existing Tree Condition Chart	335
20(15)	Existing Tree Condition Chart	336
20(16)	Existing Tree Condition Chart	337
20(17)	Existing Tree Condition Chart	338
20(18)	Existing Tree Condition Chart	339
20(19)	Existing Tree Condition Chart	340
20(20)	Existing Tree Condition Chart	341
20(21)	Existing Tree Condition Chart	342
20(22)	Existing Tree Condition Chart	343
20(23)	Existing Tree Condition Chart	344
20(24)	Existing Tree Condition Chart	345
20(25)	Existing Tree Condition Chart	346
20(26)	Existing Tree Condition Chart	347
20(27)	Existing Tree Condition Chart	348
20(28)	Existing Tree Condition Chart	349
20(29)	Existing Tree Condition Chart	350

Vol. 2 Total Pages: 137

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)

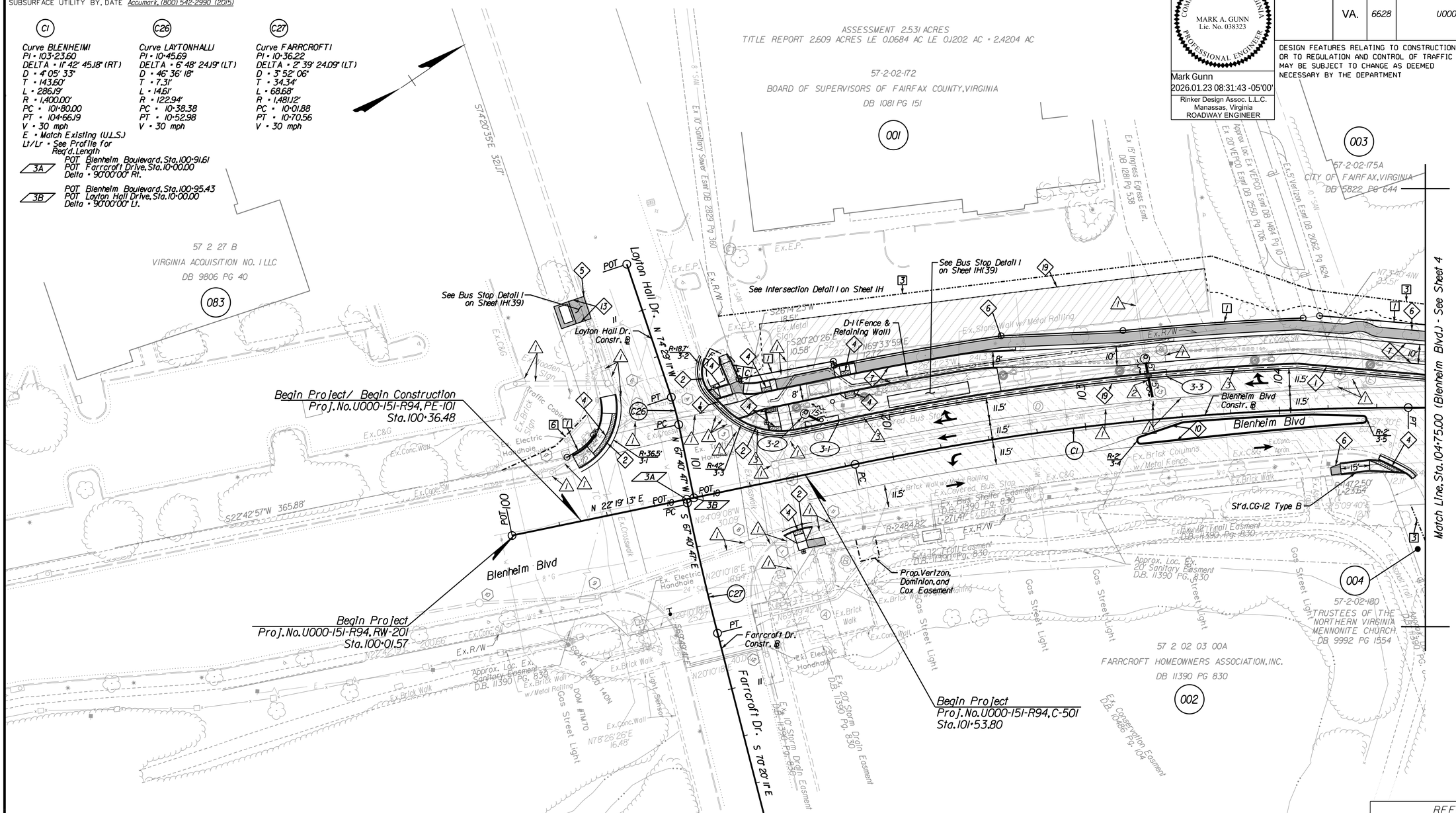
C1
Curve BLENHEIMI
PI = 103+23.60
DELTA = 11° 42' 45.8" (RT)
D = 4° 05' 33"
T = 143.60'
L = 286.19'
R = 1,400.00'
PC = 101+80.00
PT = 104+66.19
V = 30 mph
E = Match Existing (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C26
Curve LAYTONHALLI
PI = 10+45.69
DELTA = 6° 48' 24.19" (LT)
D = 46° 36' 18"
T = 7.31'
L = 14.61'
R = 122.94'
PC = 10+38.38
PT = 10+52.98
V = 30 mph

C27
Curve FARRCROFTI
PI = 10+36.22
DELTA = 2° 39' 24.09" (LT)
D = 3° 52' 06"
T = 34.34'
L = 68.68'
R = 1,481.12'
PC = 10+01.88
PT = 10+70.56
V = 30 mph

3A POT Blenheim Boulevard, Sta. 100+91.61
POT Farrcroft Drive, Sta. 10+00.00
Delta = 90°00'00" Rt.

3B POT Blenheim Boulevard, Sta. 100+95.43
POT Layton Hall Drive, Sta. 10+00.00
Delta = 90°00'00" Lt.



Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ---- Denotes Construction Limits in Cuts
F — — Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(3)
Intersection Detail Plan	1H(0) - 1H(1)
Bus Stop Detail Plan	1H(39) - 1H(40)
Erosion Controls Ph.1 & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	3A
Pavement Marking & Signing Plan	1S(3)
Roadway Lighting Plan	1R(3)
Existing Tree Plan	2O

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	3

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark Gunn
2026.01.23 08:31:43 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	3

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

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

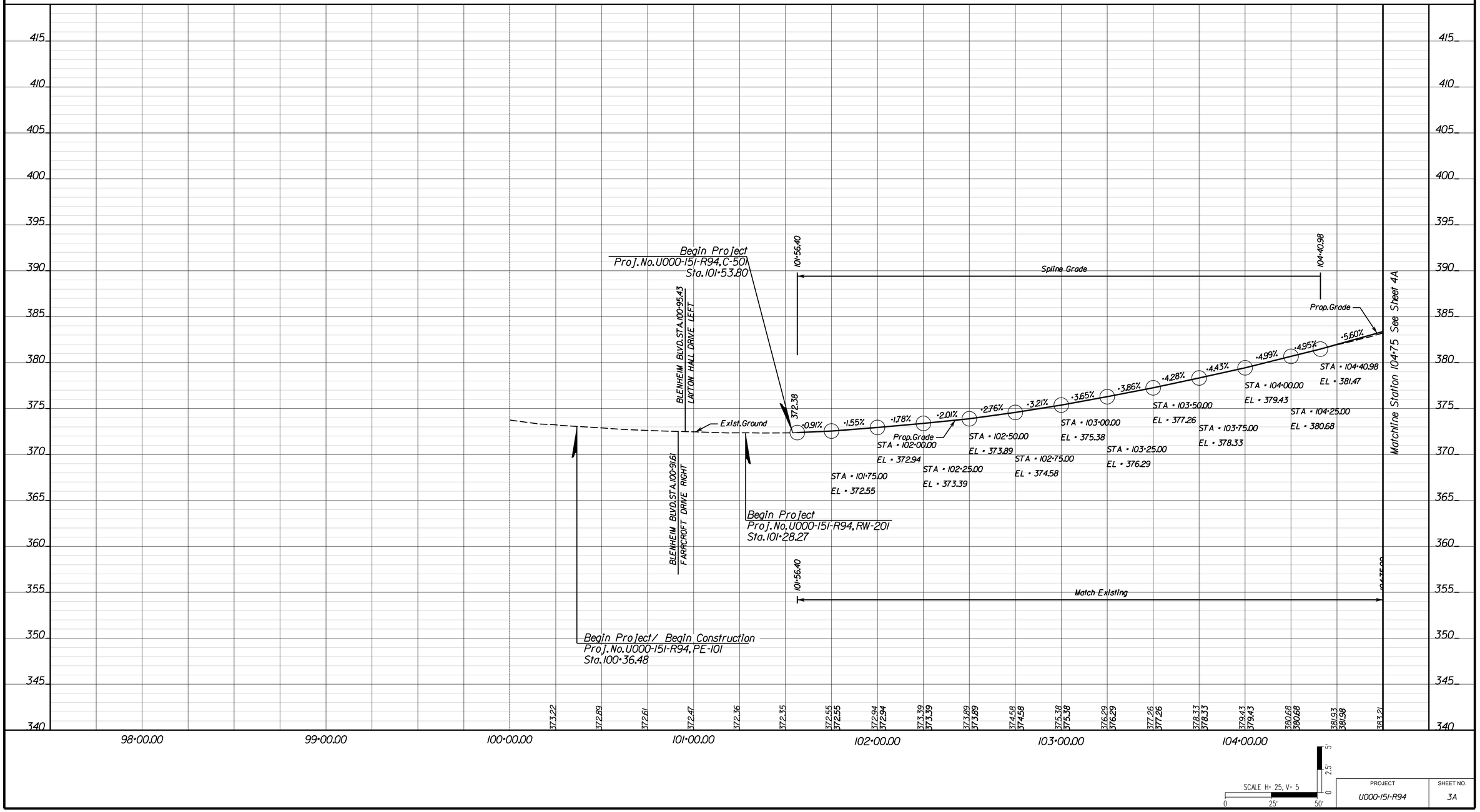
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:07:02 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	3A

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



PROJECT	SHEET NO.
U000-151-R94	3A

12/12/2025

FINAL PLANS

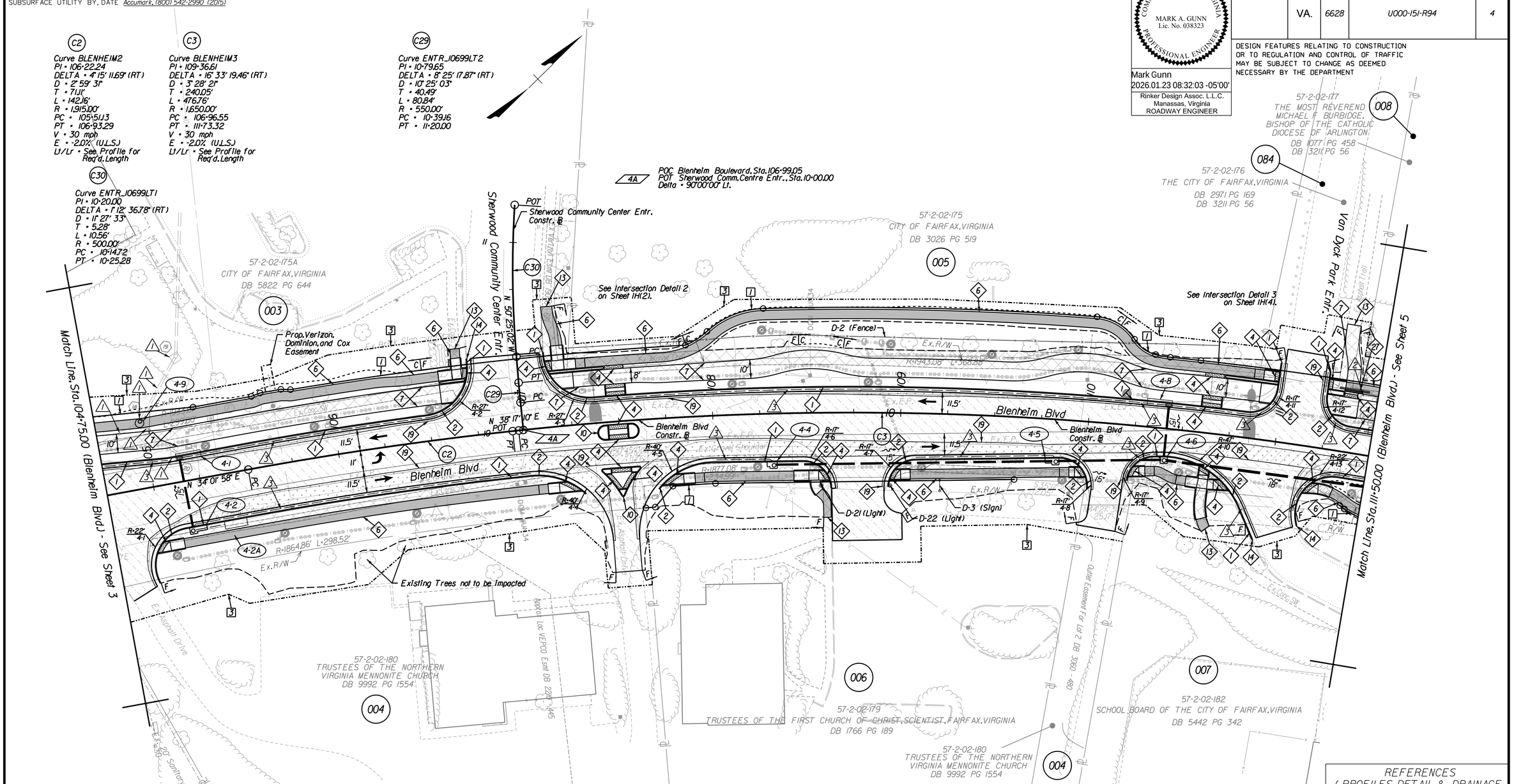
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	4

COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:32:03 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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



Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
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15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(4b) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ---- Denotes Construction Limits in Cuts
F -- -- Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 1B Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Light Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(4)
Intersection Detail Plan	1H(2) - 1H(5)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
BMP Details	2H - 2H(9)
Profile Blenheim Blvd	4A
Profile Entrances	4B
Pavement Marking & Signing Plan	15(4)
Roadway Lighting Plan	18(4)
Existing Tree Plan	20-20(1)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	4

FINAL PLANS

1/22/2026

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

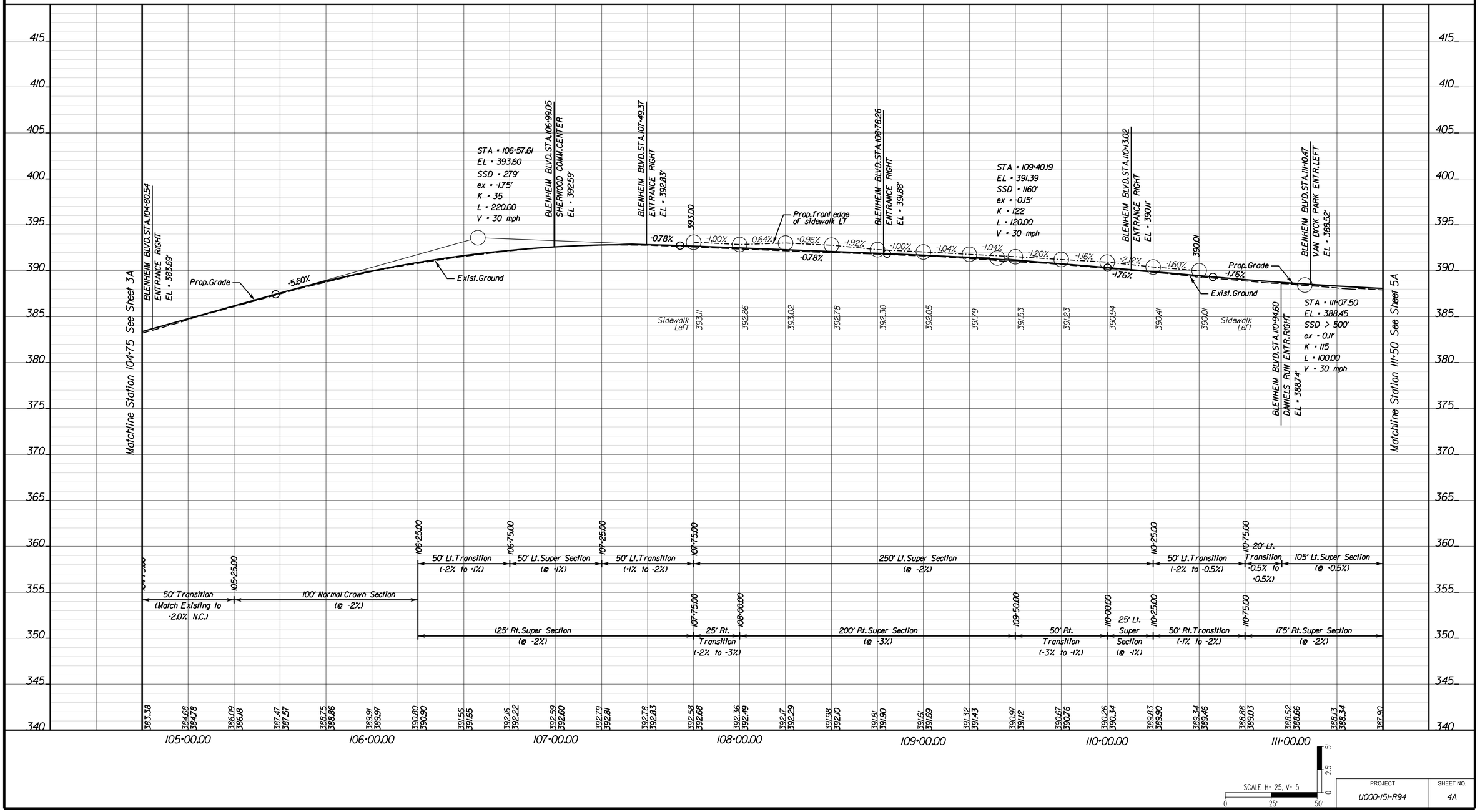
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:06:36 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	4A

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



PROJECT	SHEET NO.
U000-151-R94	4A

12/12/2025

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

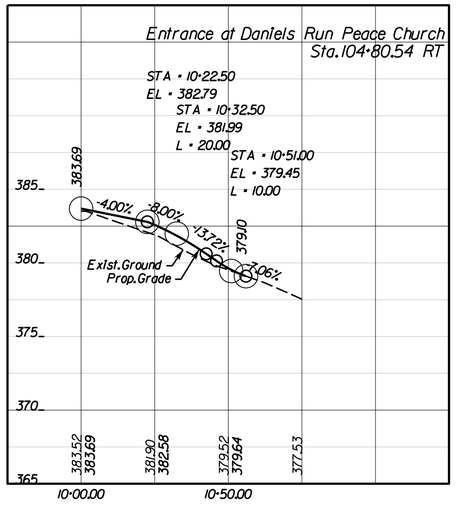
SIDE ROAD AND ENTRANCE PROFILES

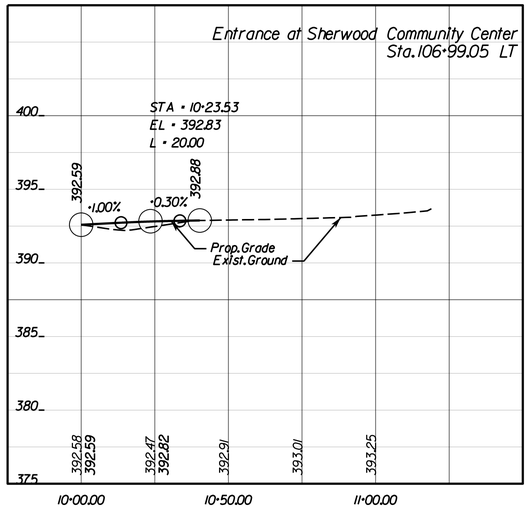
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

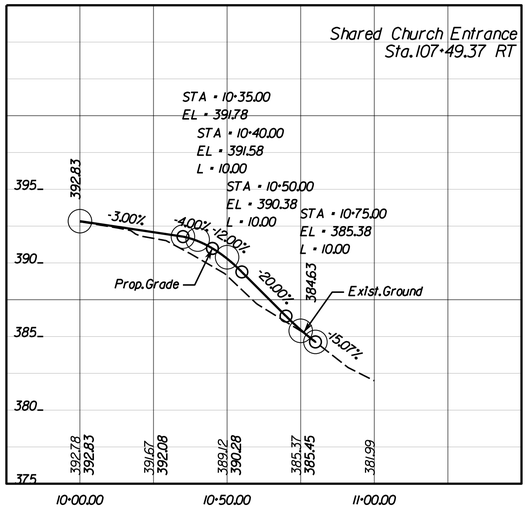
Mark Gunn
2025.12.12 12:06:23 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

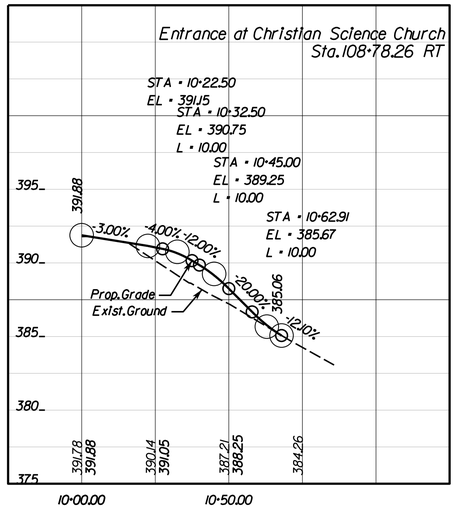
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	4B

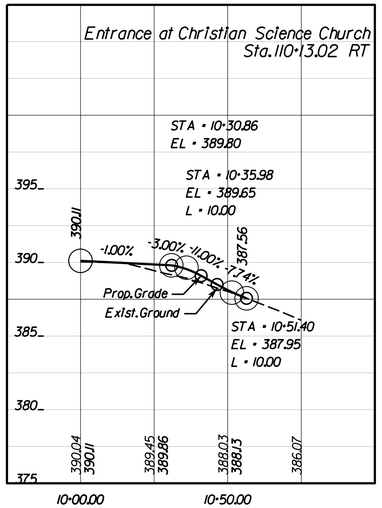
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

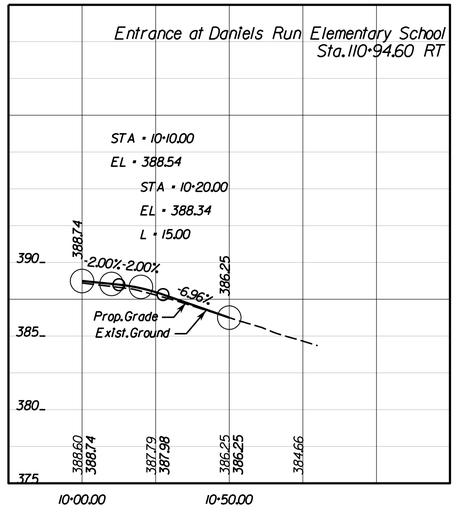


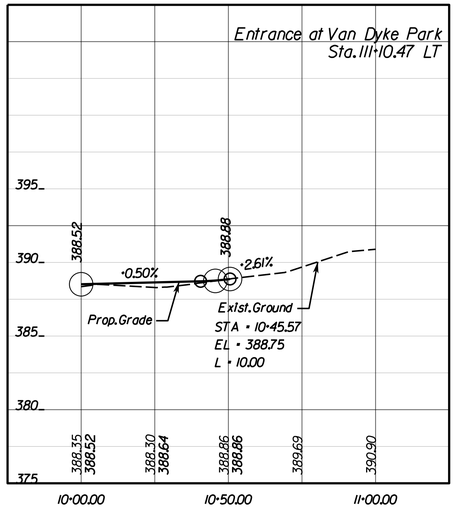












SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	4B

12/12/2025

FINAL PLANS

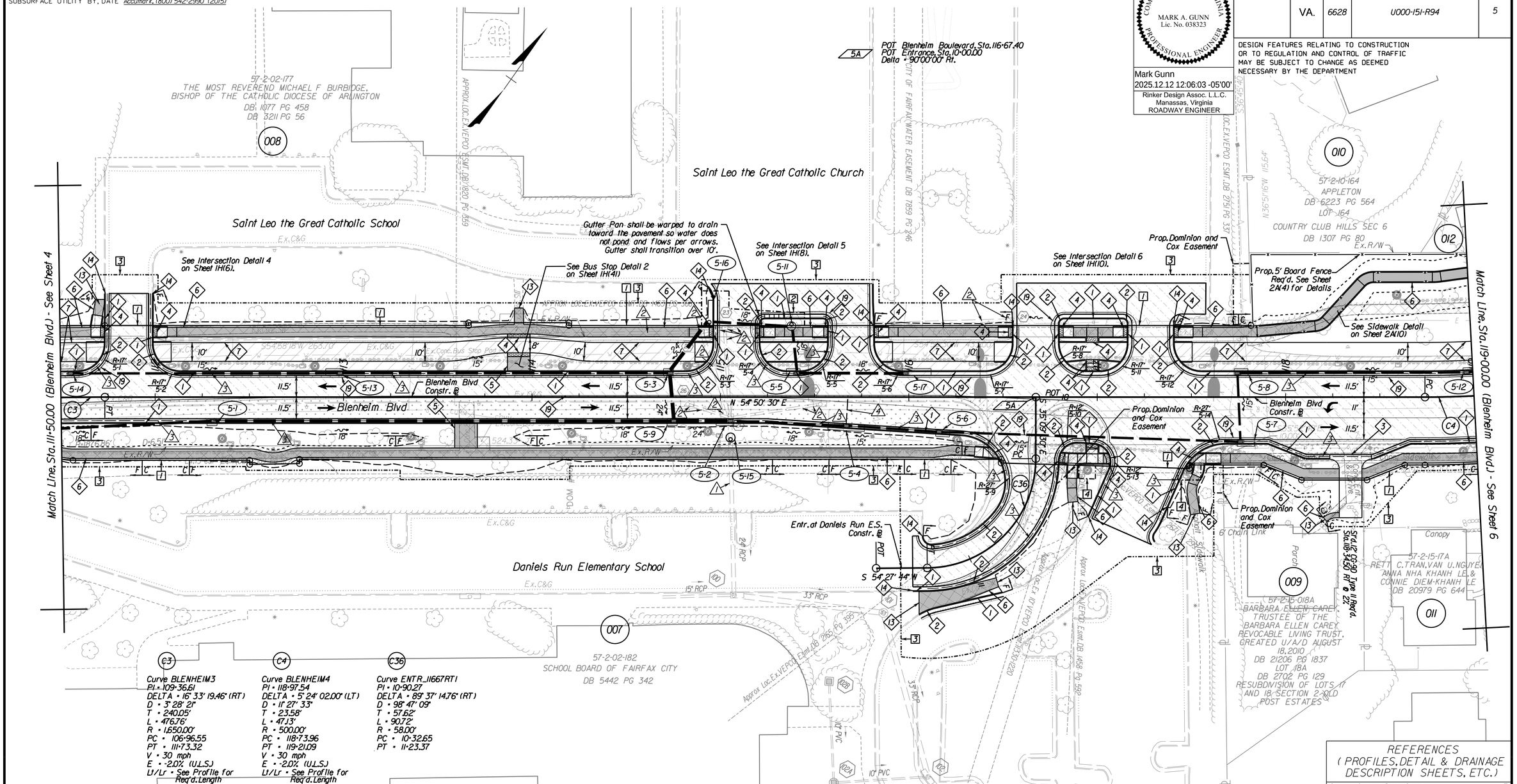
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:06:03 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	5

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



Roadway Design Legend

Key Legend

1 → Denotes St'd.CG-6 Req'd.
2 → Denotes St'd.Radial CG-6 Req'd.
3 → Denotes St'd.CG-9,Type D Req'd.
4 → Denotes St'd.CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd.6' FE-CL Req'd.
10 → Denotes St'd.MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd.CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex.Conc.Sidewalk
14 → Denotes Tie to Ex.Curb and Gutter
15 → Denotes St'd.HR-1 Ty.2 Req'd.
16 → Denotes Mod.3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod.2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod.6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex.Brick Walkway
22 → Denotes Tie to Ex.Asphalt Trail
23 → Denotes Prop.Stone Walkway
24 → Denotes Tie to Ex.Stone Walkway
25 → Denotes St'd.MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd.MS-1 w/CG-3 Type Curb Req'd.

C ---- Denotes Construction Limits in Cuts
F -- -- Denotes Construction Limits in Fills
R=XX / CR — Curb Return See Sheets 2B-2B(7)

Denotes Proposed Lighting Features See 1B Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/ Abandoned
3 → St'd.UD-4 Req'd.
4 → St'd.CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist.Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(5)
Intersection Detail Plan	1H(6) - 1H(11)
Bus Stop Detail Plan	1H(4)
Erosion Controls Ph.I & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Proposed Fence Details	2A(4)
Sidewalk Details	2A(10)
Drainage Descriptions	2G - 2G(3)
BMP Details	2H - 2H(9)
Profile Blenheim Blvd	5A
Profile Entrances	5B
Pavement Marking & Signing Plan	15(5)
Roadway Lighting Plan	18(5)
Existing Tree Plan	20(2)-20(3)

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	5

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

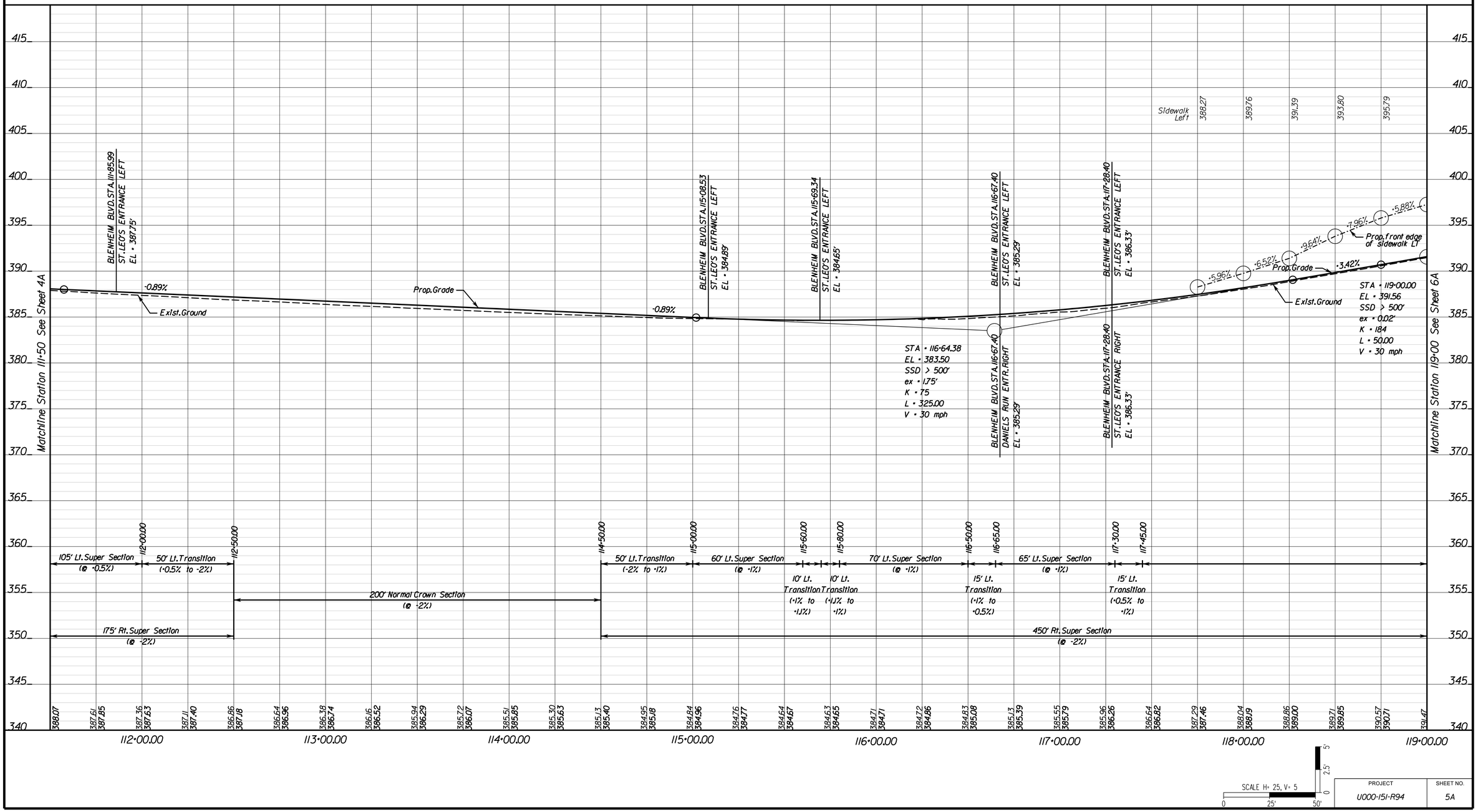
BLENHEIM BOULEVARD PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:05:49 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	5A

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



PROJECT	SHEET NO.
U000-151-R94	5A

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

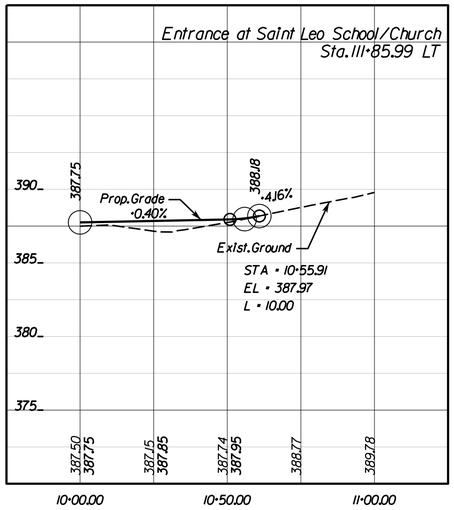
SIDE ROAD AND ENTRANCE PROFILES

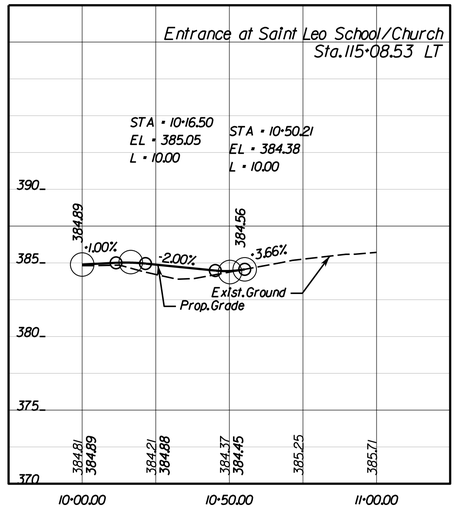
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

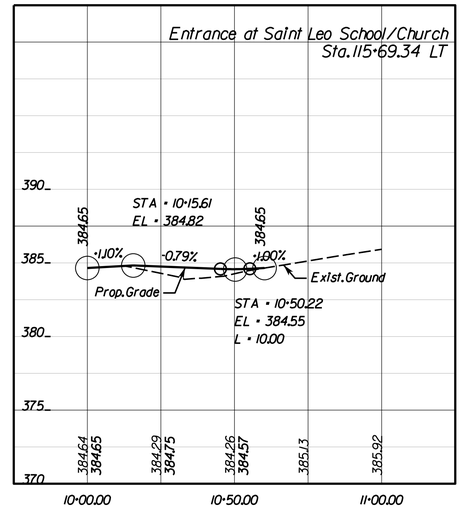
Mark Gunn
2025.12.12 12:05:37 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

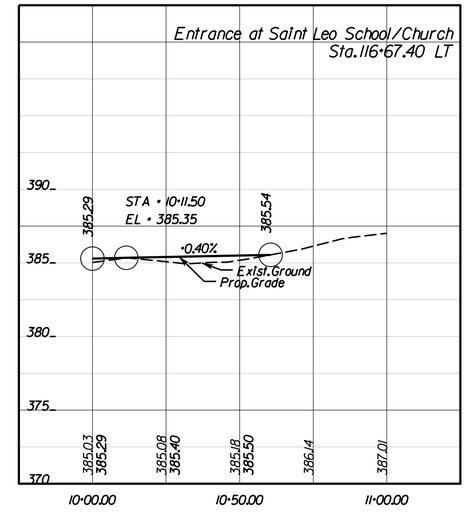
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	5B

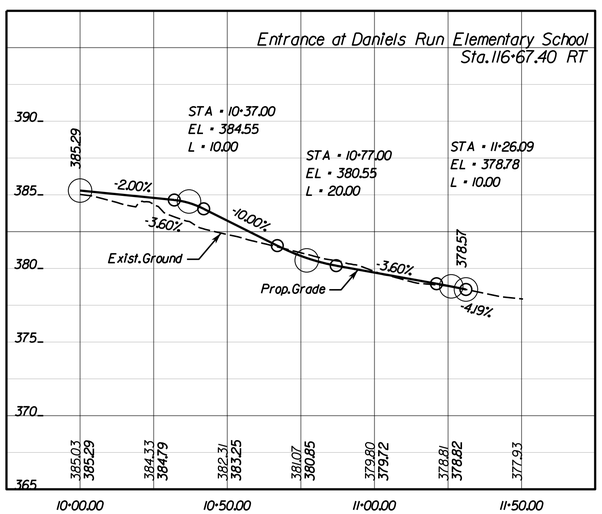
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

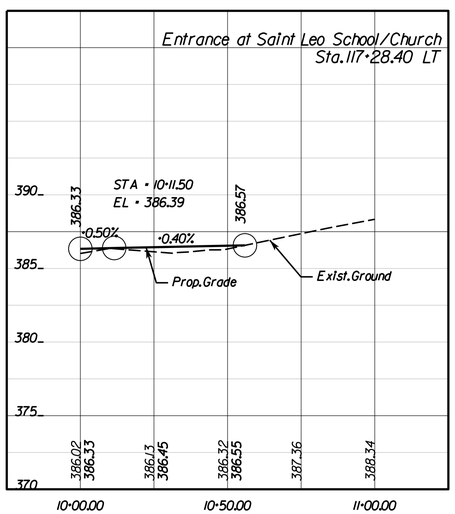


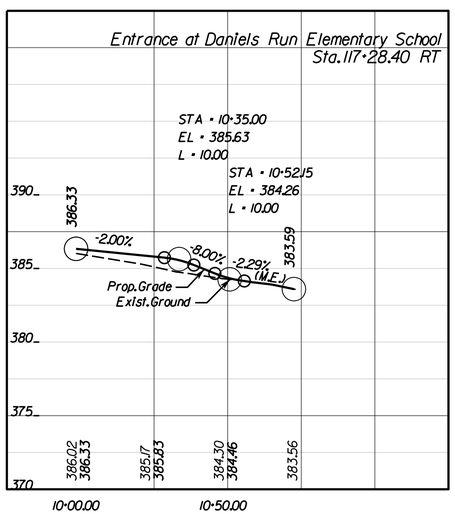


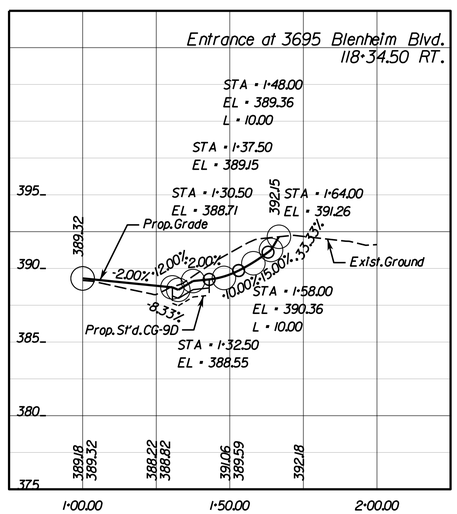










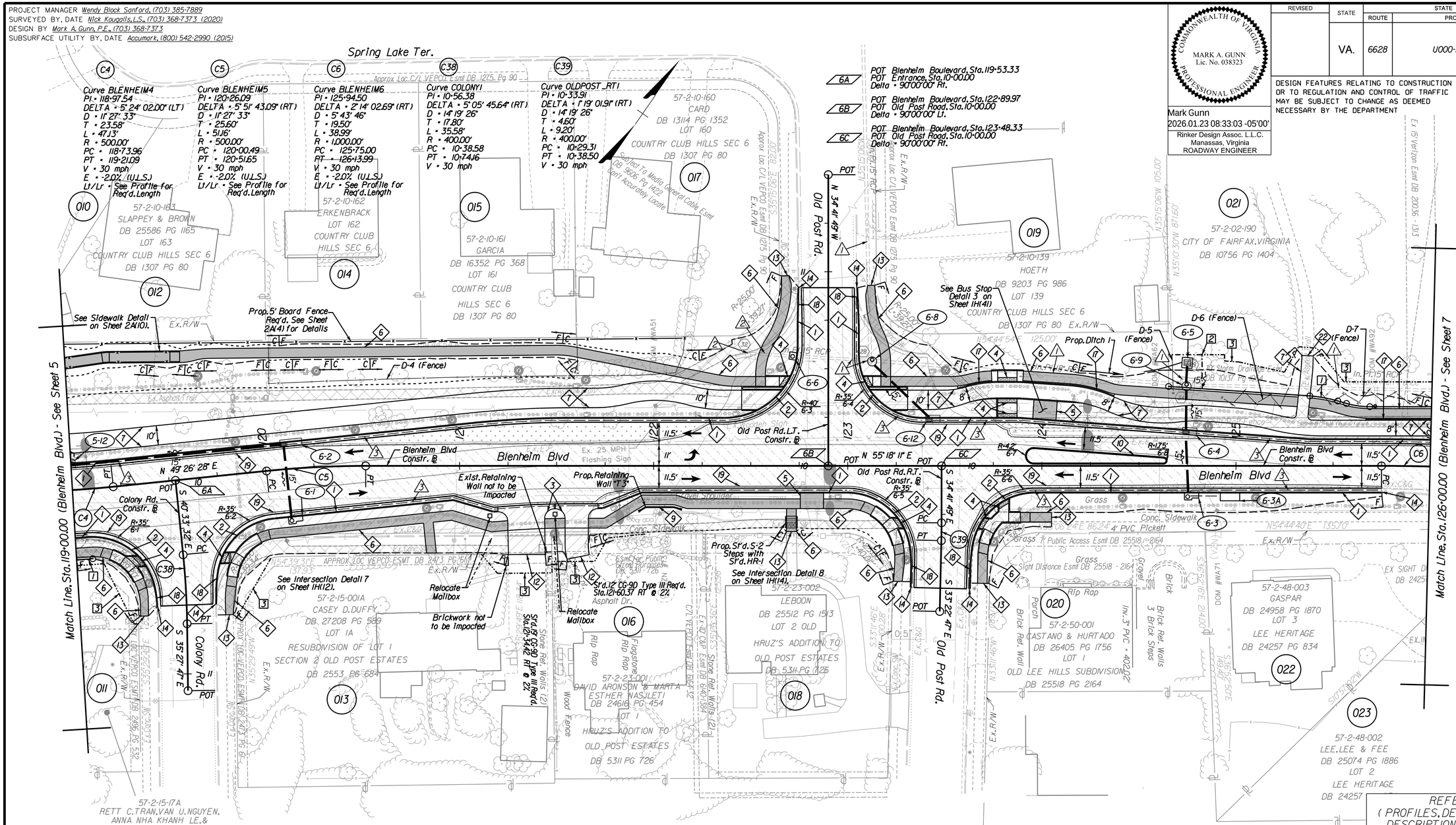


SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	5B

FINAL PLANS

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)



REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	6

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:33:03 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 1B Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines, See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(6)
Intersection Detail Plan	1H(12) - 1H(15)
Bus Stop Detail Plan	1H(4)
Erosion Controls Ph.1 & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Proposed Fence Details	2A(4)
Sidewalk Details	2A(10)
Drainage Descriptions	2G - 2G(3)
BMP Details	2H - 2H(9)
Profile Blenheim Blvd	6A
Profile Entrances	6B
Pavement Marking & Signing Plan	15(6)
Retaining Wall Plan & Profile	17(2)
Roadway Lighting Plan	18(6)
Existing Tree Plan	20(3)-20(4)

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	6

FINAL PLANS

1/22/2026

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

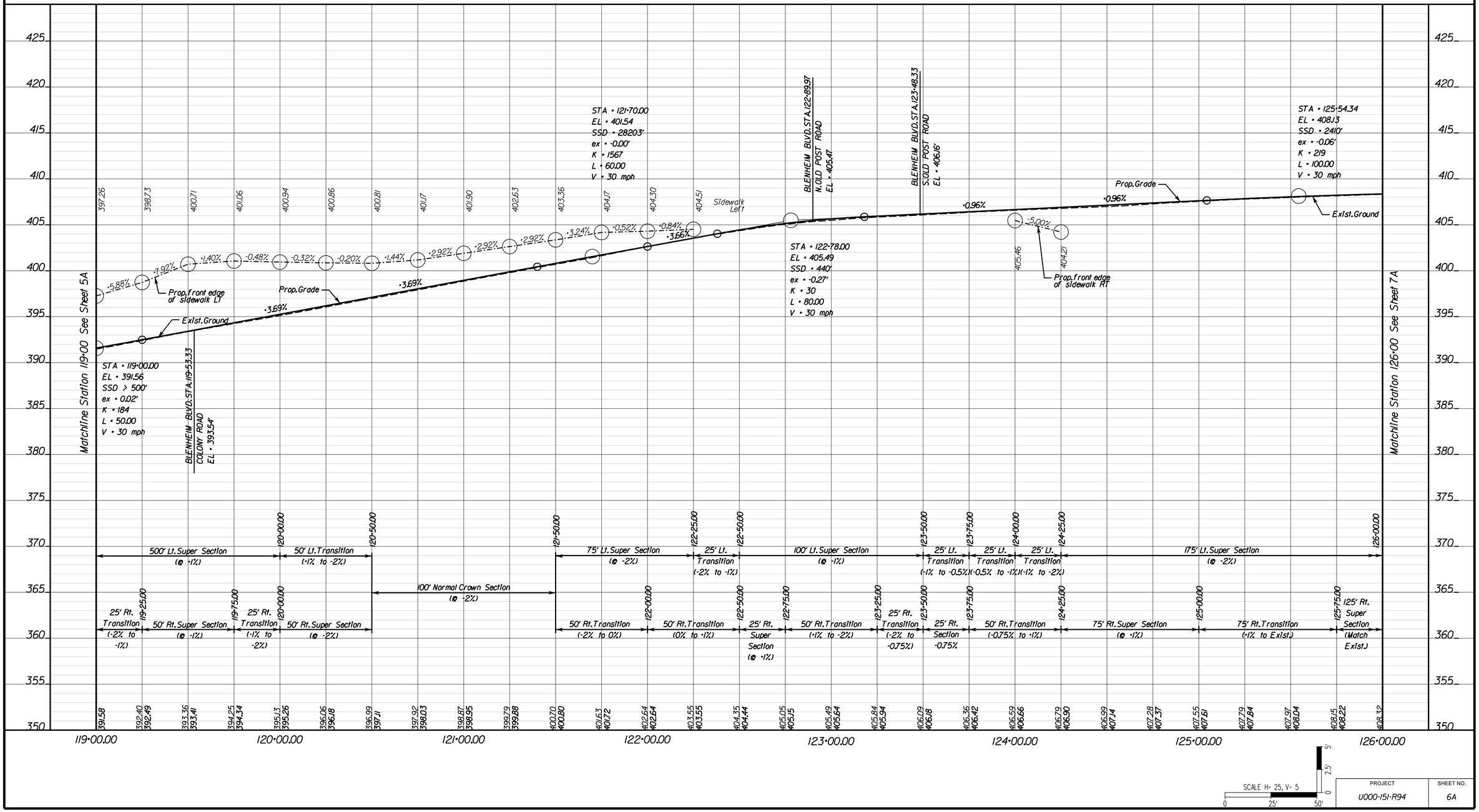
BLENHEIM BOULEVARD PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:05:08 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	6A

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



SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	6A

12/12/2025

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

SIDE ROAD AND ENTRANCE PROFILES

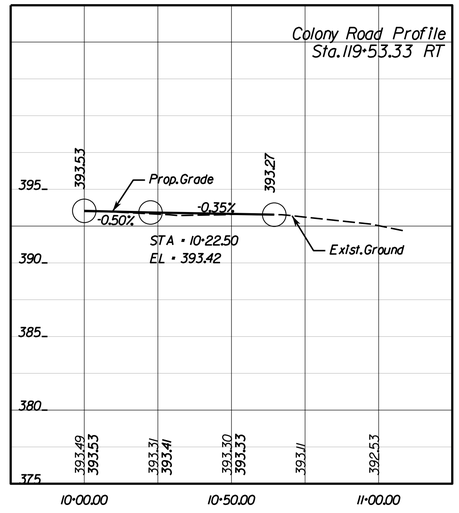
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

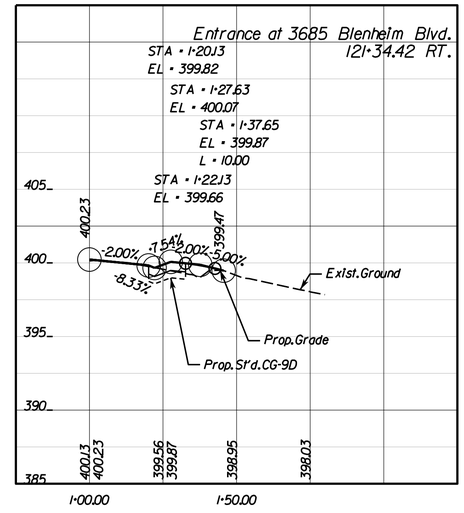
Mark Gunn
2025.12.12 12:04:54 -05'00'

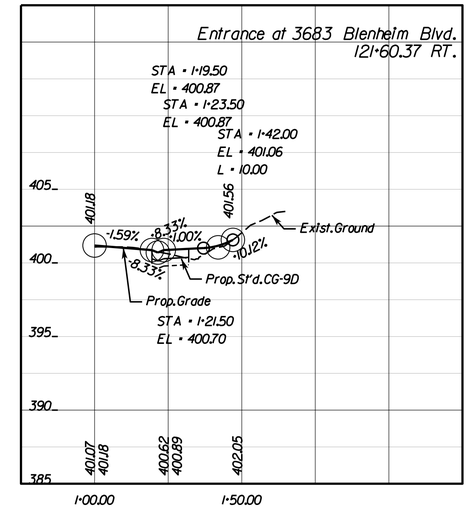
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

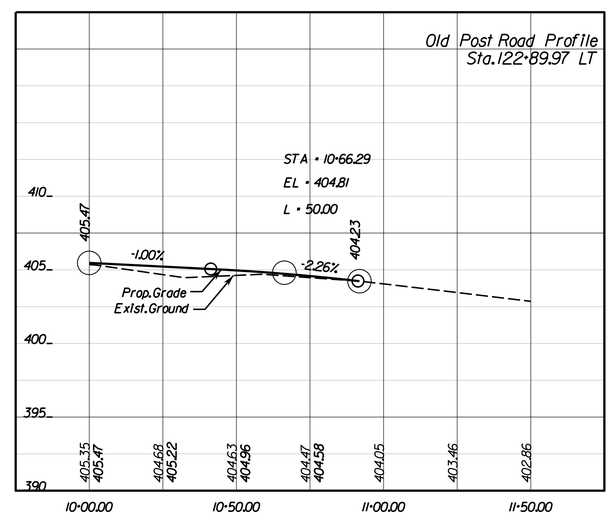
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	6B

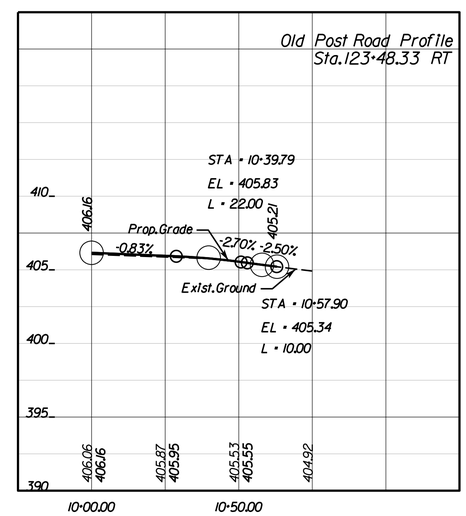
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT











SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	6B

12/12/2025

FINAL PLANS

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)

STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	6628	U000-151-R94	7

REVISED

COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:04:40 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

7A POT Blenheim Boulevard, Sta.126+69.32
POT Heritage Lane, Sta.10+00.00
Delta = 88°34'15" Lt.

7B POT Blenheim Boulevard, Sta.126+69.32
POT Heritage Lane, Sta.10+00.00
Delta = 88°34'10" Rt.

7C POC Blenheim Boulevard, Sta.130+19.18
POT Parklane Road, Sta.10+00.00
Delta = 88°13'25" Rt.

7D POT Blenheim Boulevard, Sta.133+35.38
POT Embassy Lane, Sta.10+00.00
Delta = 90°00'00" Rt.

C6 Curve BLENHEIM6
PI = 125+94.50
DELTA = 2°14' 02.69" (RT)
D = 5°43' 46"
T = 19.50'
L = 38.99'
R = 1,000.00'
PC = 125+75.00
PT = 126+13.99
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

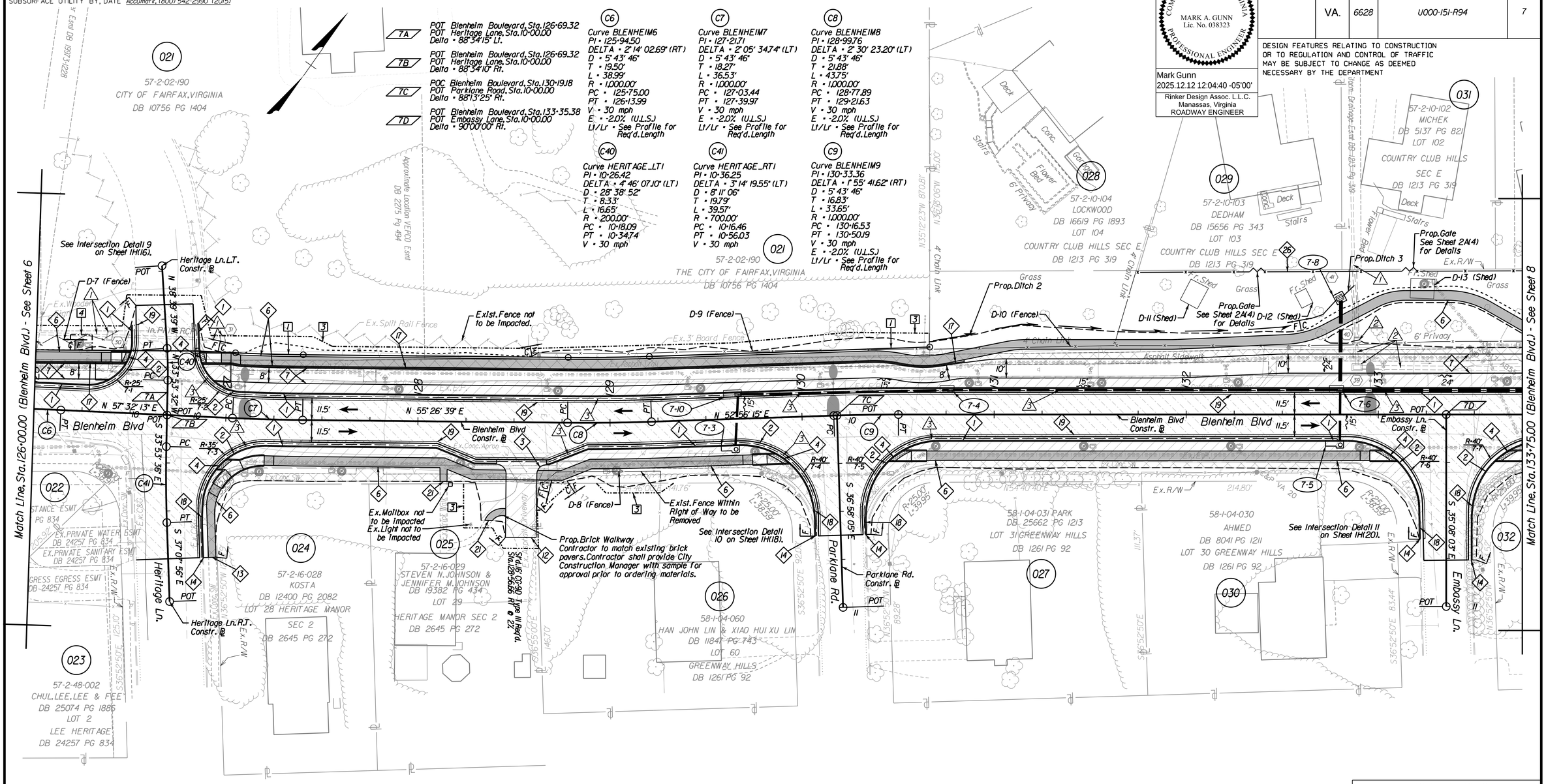
C7 Curve BLENHEIM7
PI = 127+21.71
DELTA = 2°05' 34.74" (LT)
D = 5°43' 46"
T = 18.27'
L = 36.53'
R = 1,000.00'
PC = 127+03.44
PT = 127+39.97
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C8 Curve BLENHEIM8
PI = 128+99.76
DELTA = 2°30' 23.20" (LT)
D = 5°43' 46"
T = 21.88'
L = 43.75'
R = 1,000.00'
PC = 128+77.89
PT = 129+21.63
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C40 Curve HERITAGE_LT1
PI = 10+26.42
DELTA = 4°46' 07.10" (LT)
D = 28°38' 52"
T = 8.33'
L = 16.65'
R = 200.00'
PC = 10+18.09
PT = 10+34.74
V = 30 mph

C41 Curve HERITAGE_RT1
PI = 10+36.25
DELTA = 3°14' 19.55" (LT)
D = 8°11' 06"
T = 19.79'
L = 39.57'
R = 700.00'
PC = 10+16.46
PT = 10+56.03
V = 30 mph

C9 Curve BLENHEIM9
PI = 130+33.36
DELTA = 1°55' 41.62" (RT)
D = 5°43' 46"
T = 16.83'
L = 33.65'
R = 1,000.00'
PC = 130+16.53
PT = 130+50.19
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length



Roadway Design Legend

Key Legend

1 → Denotes Std. CG-6 Req'd.
2 → Denotes Std. Radial CG-6 Req'd.
3 → Denotes Std. CG-9, Type D Req'd.
4 → Denotes Std. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes Std. 6' FE-CL Req'd.
10 → Denotes Std. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes Std. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes Std. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes Std. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes Std. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → Std. UD-4 Req'd.
4 → Std. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(7)
Intersection Detail Plan	1H(16) - 1H(21)
Erosion Controls Ph.1 & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Proposed Gate Details	2A(4)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	7A
Profile Side Roads	7B
Pavement Marking & Signing Plan	15(7)
Roadway Lighting Plan	18(7)
Existing Tree Plan	20(4)-20(5)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	7

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

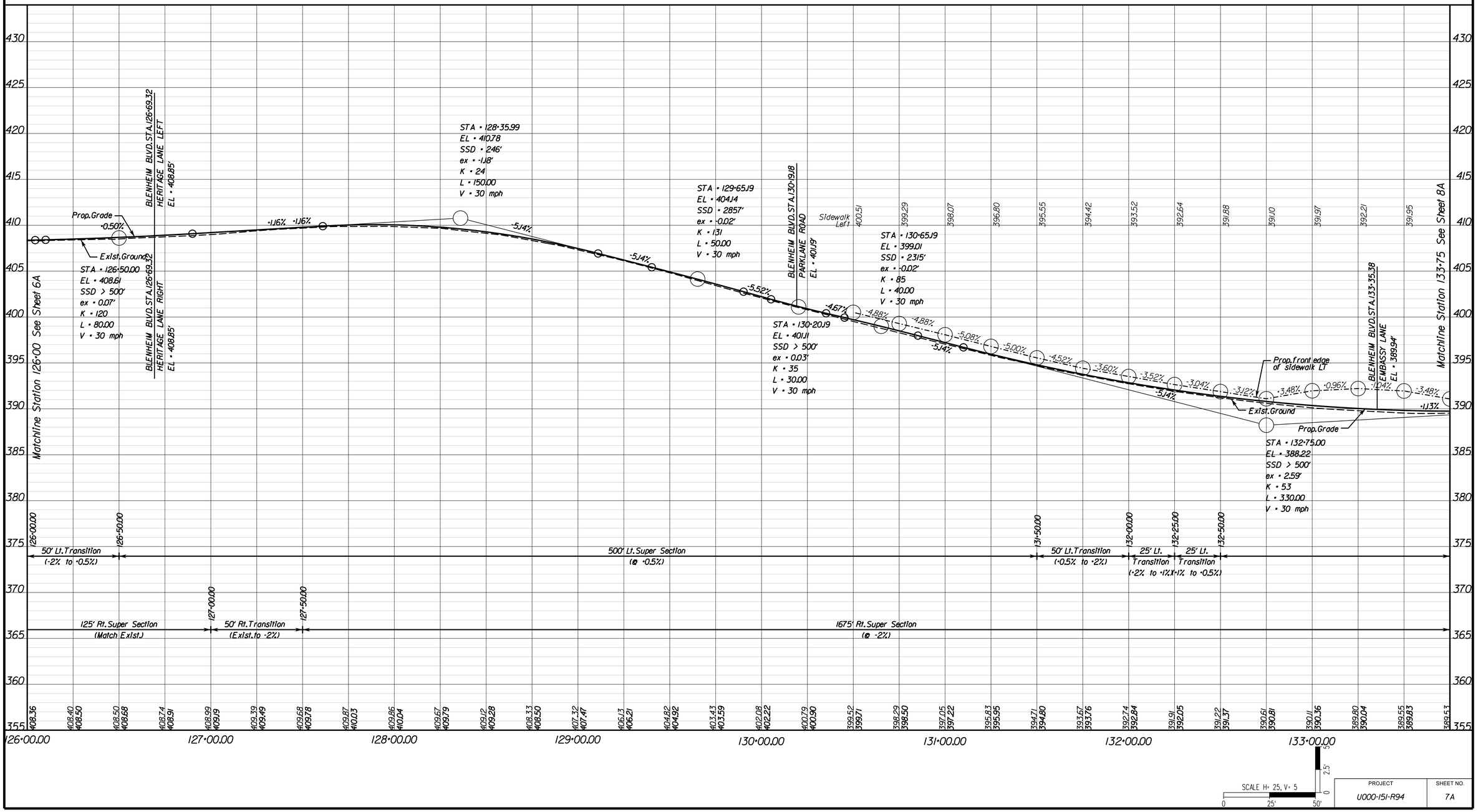
BLENHEIM BOULEVARD PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:04:25 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	7A

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



FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

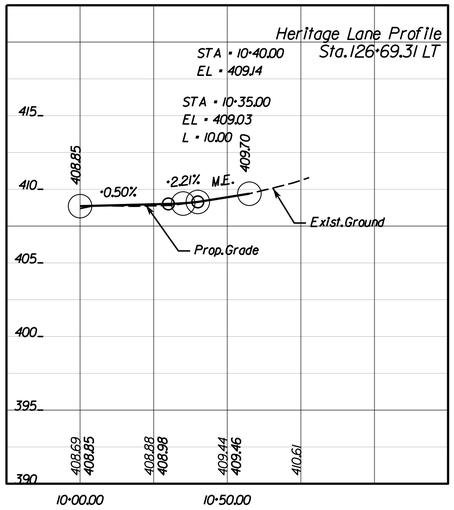
SIDE ROAD AND ENTRANCE PROFILES

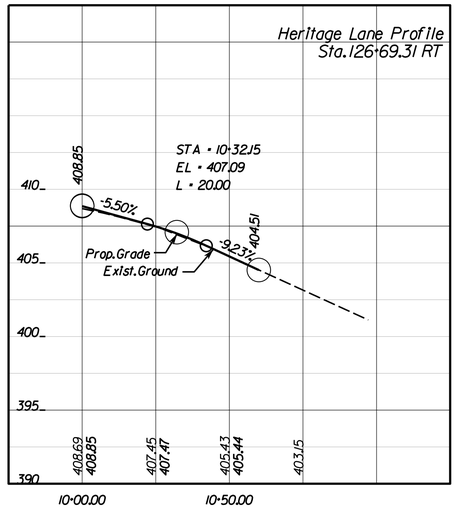
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

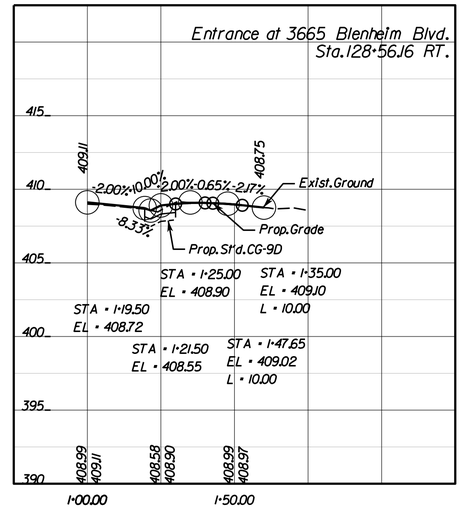
Mark Gunn
2025.12.12 12:04:11 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

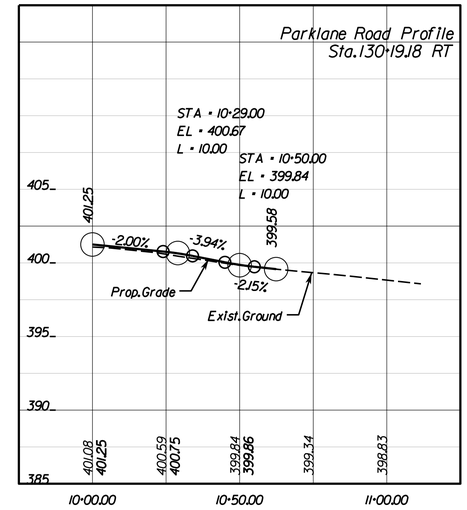
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	7B

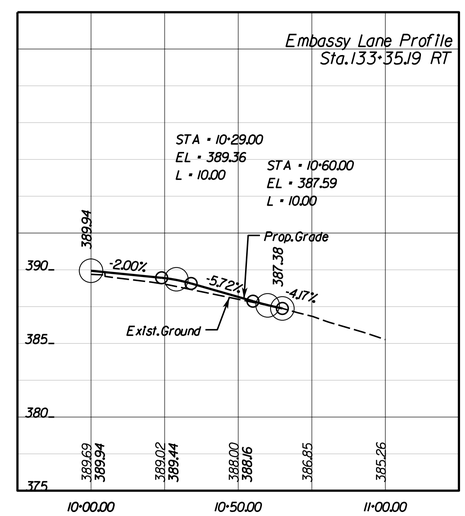
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT











SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	7B

12/12/2025

FINAL PLANS

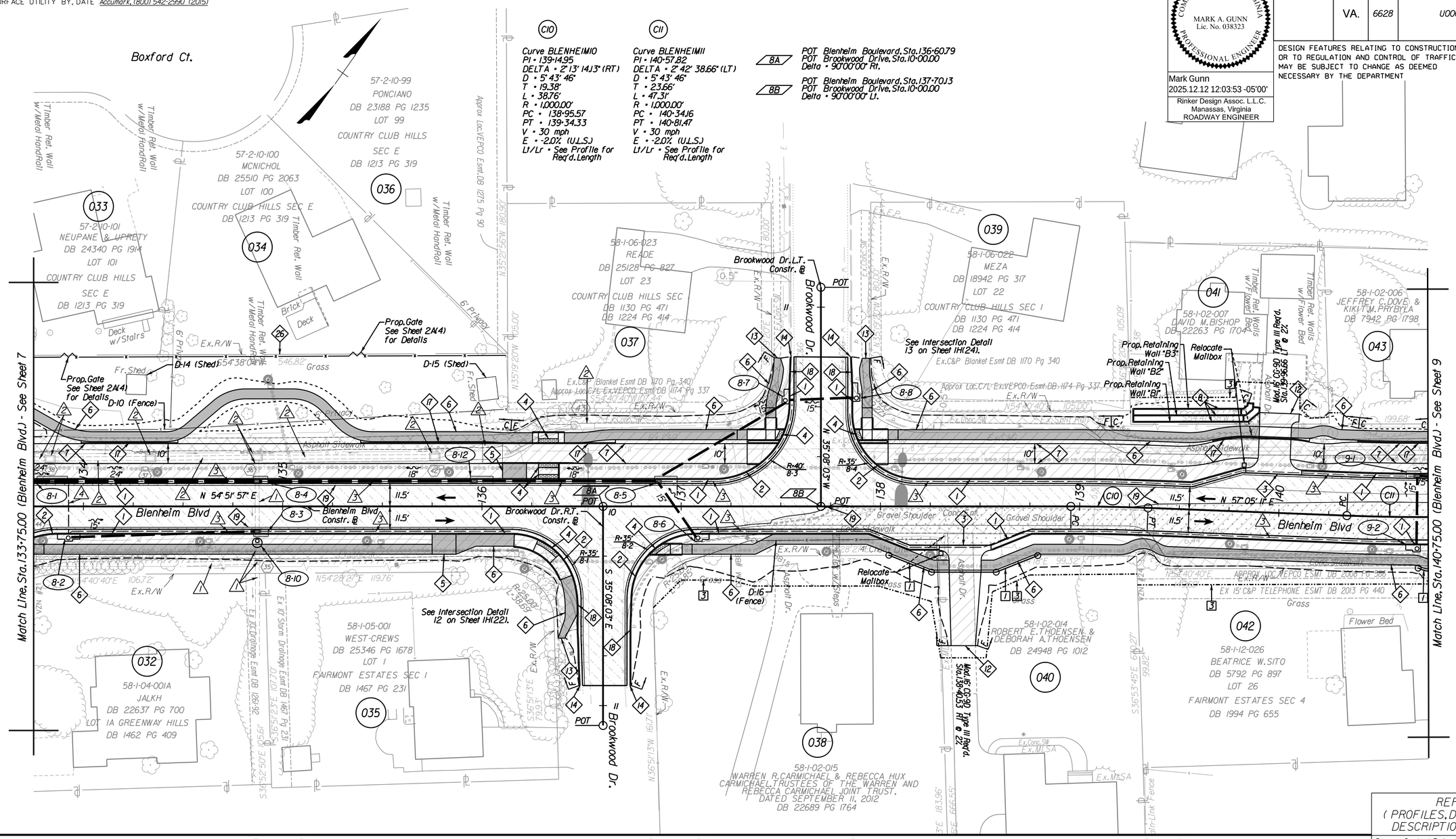
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:03:53 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	8

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



Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R-XX / CR Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 1B Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines, See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(8)
Intersection Detail Plan	1H(22) - 1H(25)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Proposed Gate Details	2A(4)
Drainage Descriptions	2G - 2G(3)
BMP Details	2H - 2H(9)
Profile Blenheim Blvd	8A
Profile Brookwood Drive	8B
Pavement Marking & Signing Plan	15(8)
Retaining Wall Plan & Profile	17(3)
Roadway Lighting Plan	18(8)
Existing Tree Plan	20(5)-20(6)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	8

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

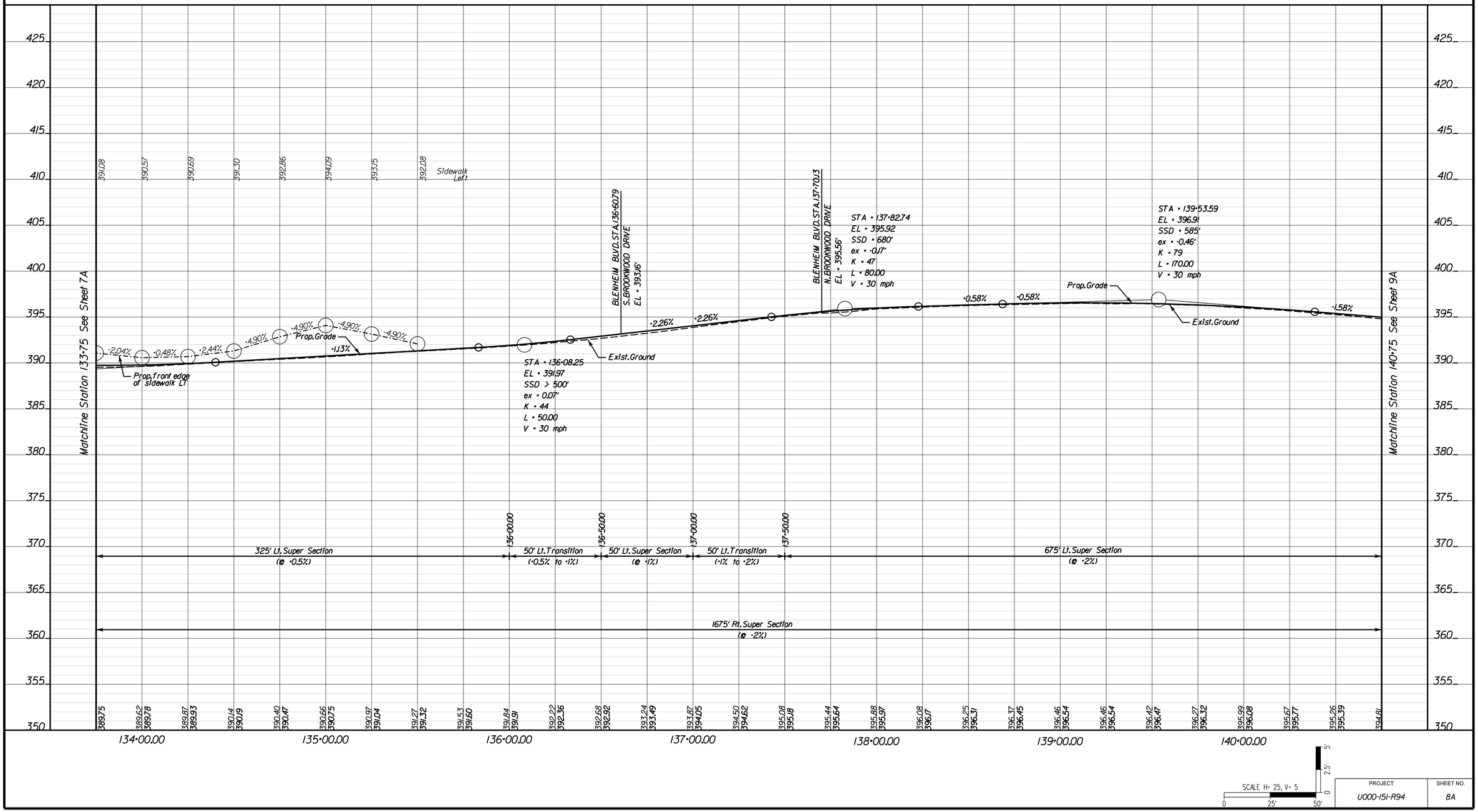
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:03:34 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	8A

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



SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	8A

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

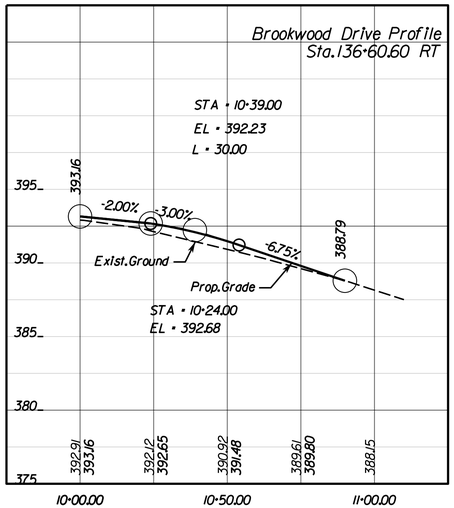
SIDE ROAD AND ENTRANCE PROFILES

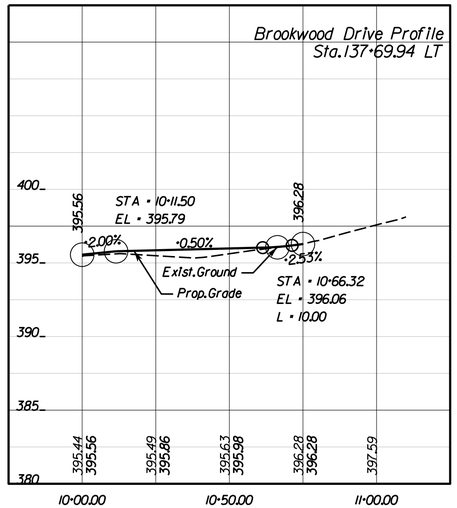
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

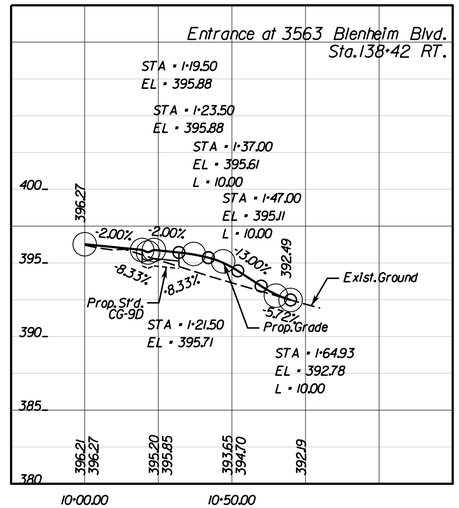
Mark Gunn
2025.12.12 12:03:19 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

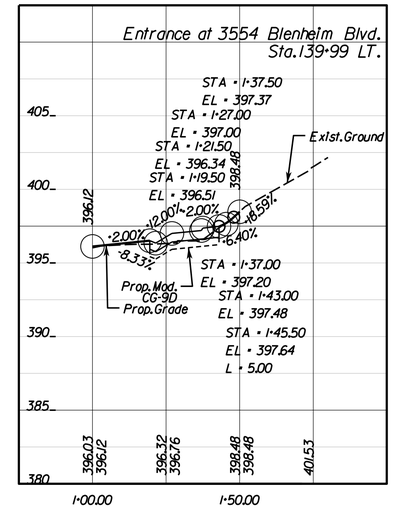
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	8B

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









SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	8B

12/12/2025

FINAL PLANS

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)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	9

COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:33:22 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

C11 — Curve BLENHEIM11
PI = 140+57.82
DELTA = 2° 42' 38.66" (LT)
D = 5° 43' 46"
T = 23.66'
L = 47.31'
R = 1,000.00'
PC = 140+34.16
PT = 140+81.47
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C12 — Curve BLENHEIM12
PI = 142+09.03
DELTA = 2° 52' 12.96" (LT)
D = 5° 43' 46"
T = 25.05'
L = 50.10'
R = 1,000.00'
PC = 141+83.98
PT = 142+34.08
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C13 — Curve BLENHEIM13
PI = 143+05.52
DELTA = 2° 57' 39.78" (RT)
D = 5° 43' 46"
T = 25.85'
L = 51.68'
R = 1,000.00'
PC = 142+79.67
PT = 143+31.35
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C14 — Curve BLENHEIM14
PI = 148+15.31
DELTA = 3° 08' 53.15" (LT)
D = 2° 58' 35"
T = 52.90'
L = 105.77'
R = 1,925.00'
PC = 147+62.41
PT = 148+68.18
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C43 — Curve QUEENANNE1
PI = 10+47.63
DELTA = 0° 35' 09.05" (RT)
D = 5° 43' 46"
T = 5.11'
L = 10.22'
R = 1,000.00'
PC = 10+42.52
PT = 10+52.75
V = 30 mph

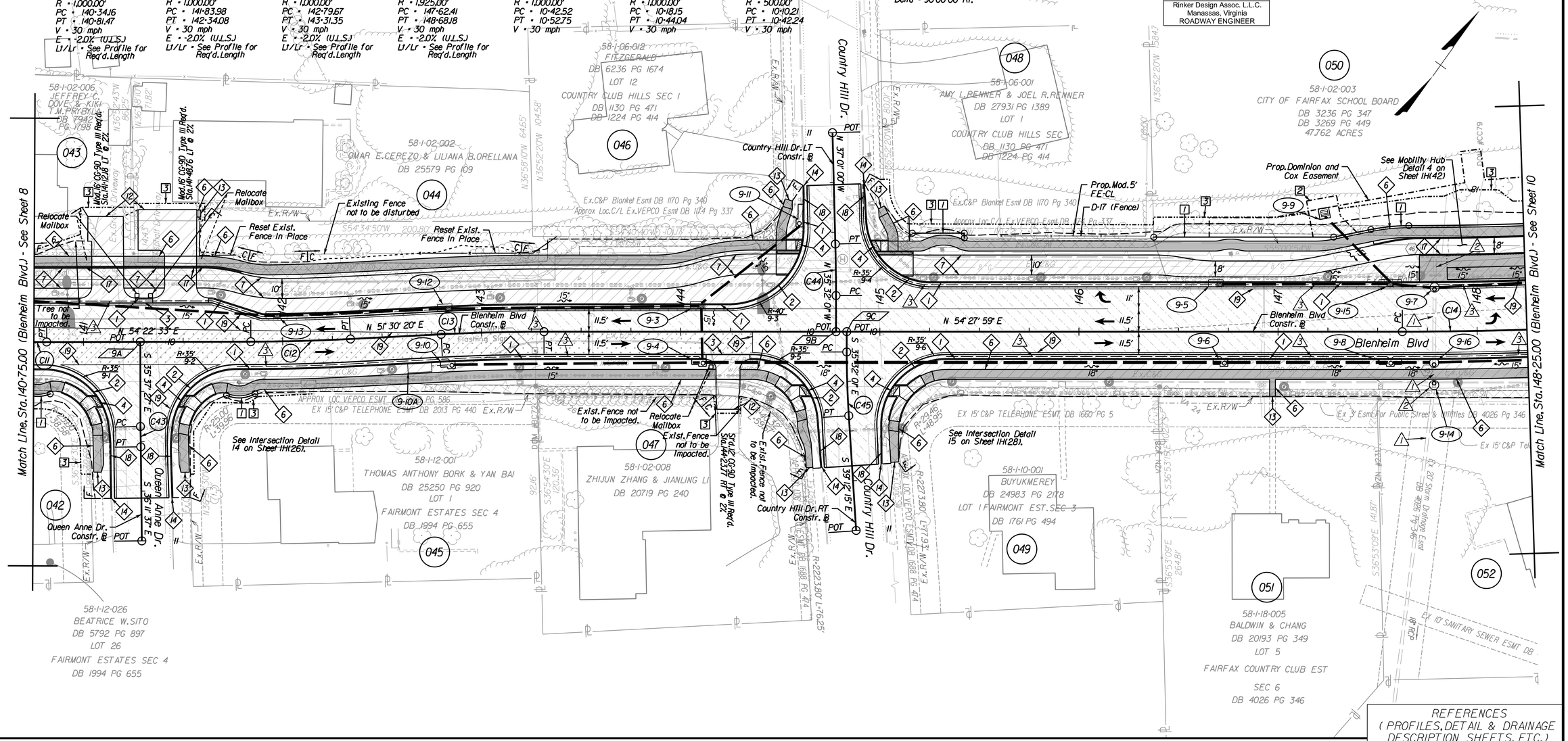
C44 — Curve COUNTRY_LT1
PI = 10+31.10
DELTA = 1° 28' 58.90" (LT)
D = 5° 43' 46"
T = 12.94'
L = 25.88'
R = 1,000.00'
PC = 10+18.15
PT = 10+44.04
V = 30 mph

C45 — Curve COUNTRY_RT1
PI = 10+26.23
DELTA = 3° 40' 13.96" (LT)
D = 1° 27' 33"
T = 16.02'
L = 32.03'
R = 500.00'
PC = 10+10.21
PT = 10+42.24
V = 30 mph

9A — POT Blenheim Boulevard, Sta. 141+28.49
POT Queen Anne Drive, Sta. 10+00.00
Delta = 90°00'00" Lt.

9B — POT Blenheim Boulevard, Sta. 144+77.99
POT Country Hill Drive, Sta. 10+00.00
Delta = 90°00'00" Lt.

9C — POT Blenheim Boulevard, Sta. 144+83.38
POT Country Hill Drive, Sta. 10+00.00
Delta = 90°00'00" Rt.



Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

→ Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

→ Key Legend
Prop. Right of Way
1 — Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 — Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 — Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 — Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 — Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 — Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(9)
Intersection Detail Plan	1H(26) - 1H(29)
Mobility Hub Detail Plan	1H(42)
Erosion Controls Ph.I & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
BMP Details	2H - 2H(9)
Profile Blenheim Blvd	9A
Profile Queen Anne Dr., Country Hill Dr.	9B
Pavement Marking & Signing Plan	15(9)
Roadway Lighting Plan	18(9)
Existing Tree Plan	20(6)-20(7)

SCALE 0 — 25' — 50'

PROJECT	SHEET NO.
U000-151-R94	9

FINAL PLANS

1/22/2026

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

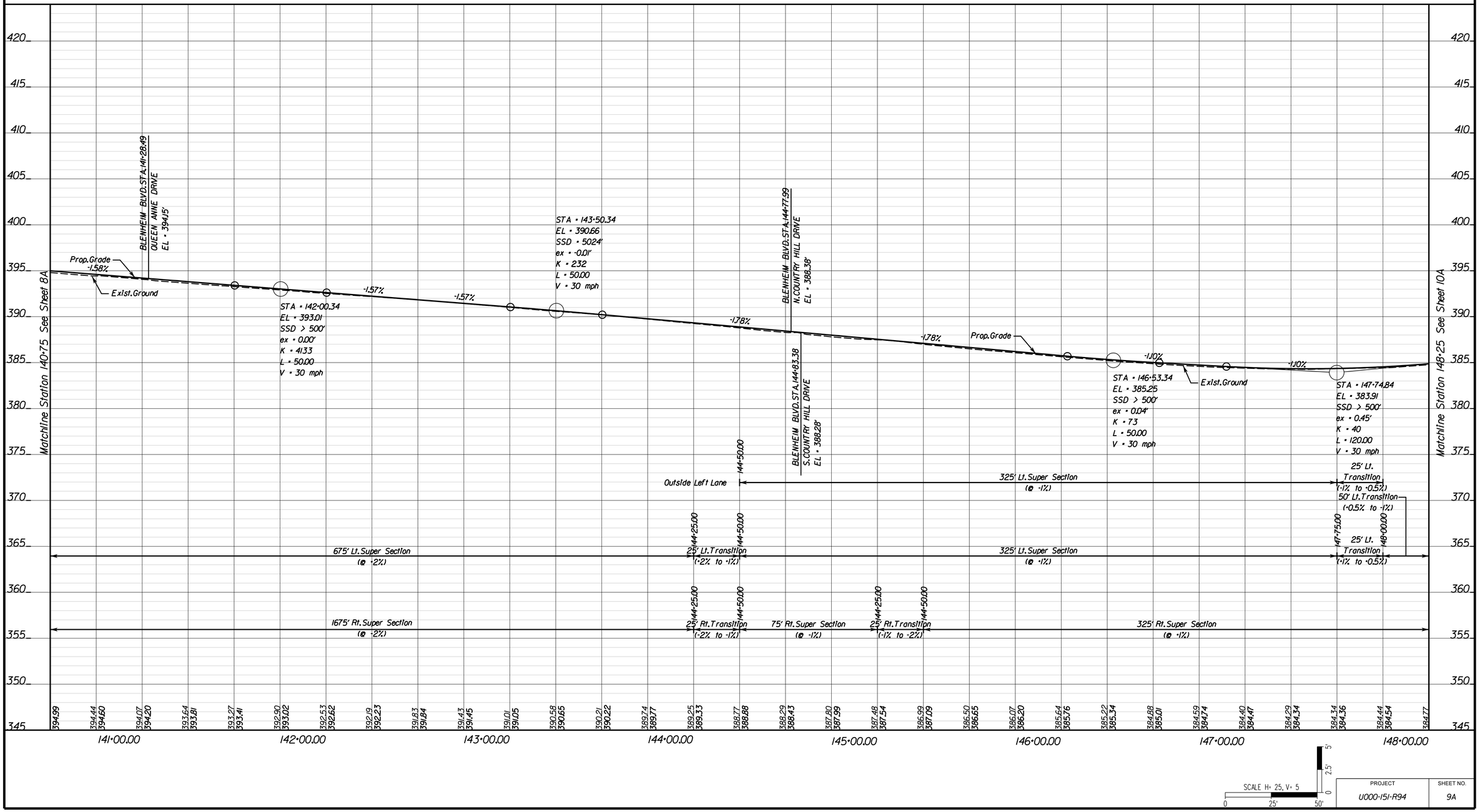
BLENHEIM BOULEVARD PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 12:02:44 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	9A

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



PROJECT	SHEET NO.
U000-151-R94	9A

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

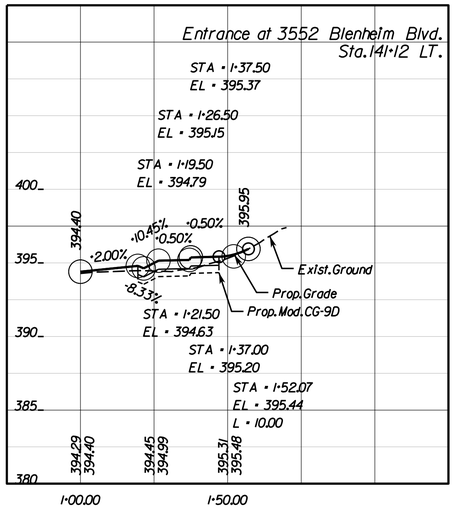
SIDE ROAD AND ENTRANCE PROFILES

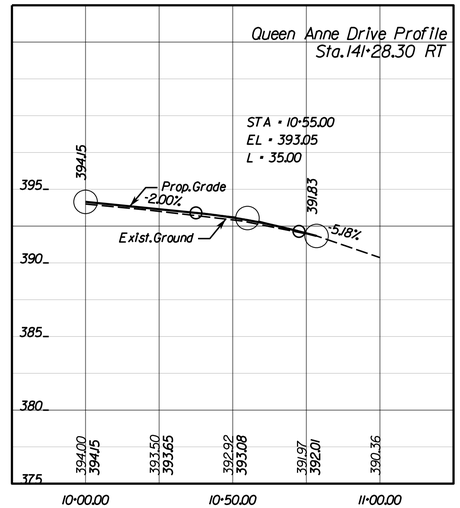
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

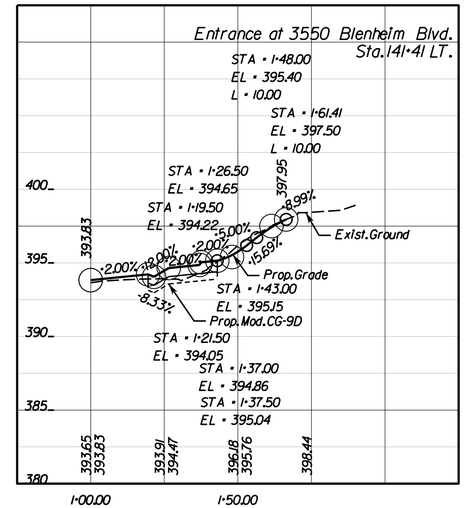
Mark Gunn
2025.12.12 12:02:26 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

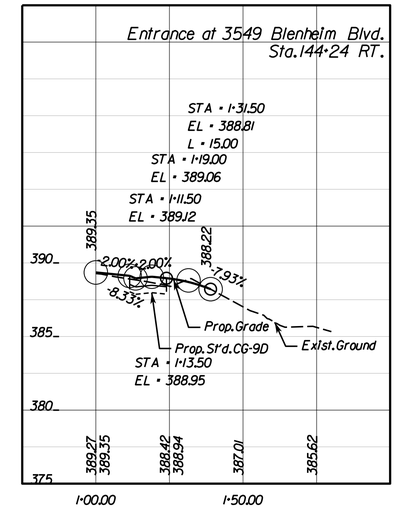
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	9B

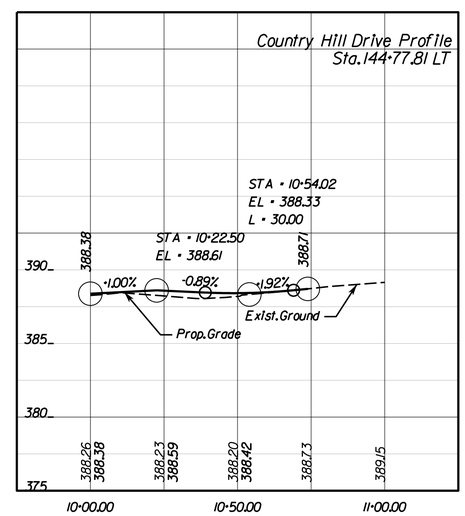
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

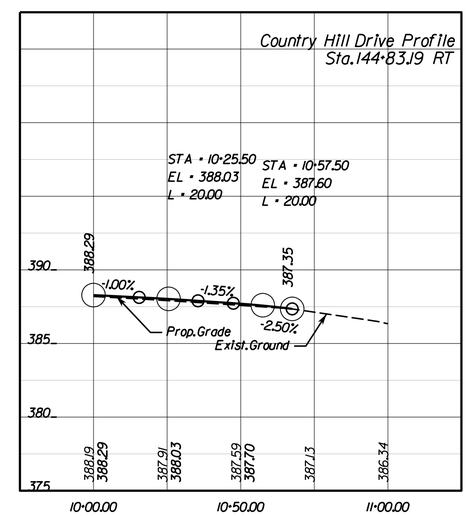












SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	9B

12/12/2025

FINAL PLANS

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)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	10

COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:33:38 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

C14 — Curve BLENHEIM14
PI = 148+15.31
DELTA = 3°08' 53.15" (LT)
D = 2°58' 35"
T = 52.90'
L = 105.77'
R = 1,925.00'
PC = 147+62.41
PT = 148+68.18
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C15 — Curve BLENHEIM15
PI = 149+78.01
DELTA = 3°11' 12.55" (RT)
D = 5°43' 46"
T = 27.82'
L = 55.62'
R = 1,000.00'
PC = 149+50.19
PT = 150+05.81
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C16 — Curve BLENHEIM16
PI = 152+59.61
DELTA = 6°23' 19.05" (RT)
D = 5°43' 46"
T = 55.81'
L = 111.50'
R = 1,000.00'
PC = 152+03.80
PT = 153+15.30
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

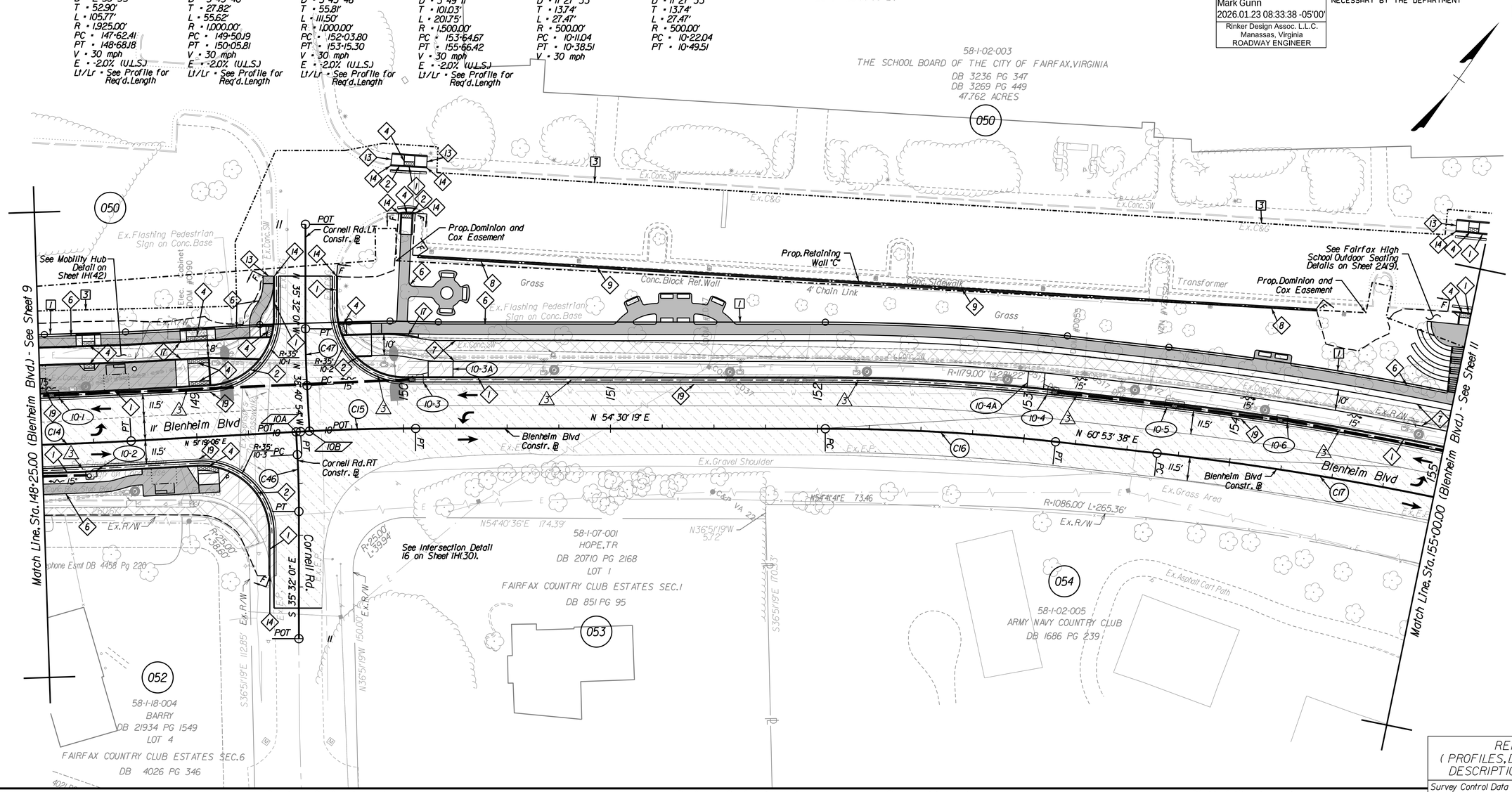
C17 — Curve BLENHEIM17
PI = 154+65.69
DELTA = 7°42' 23.16" (RT)
D = 3°49' 11"
T = 101.03'
L = 201.75'
R = 1,500.00'
PC = 153+64.67
PT = 155+66.42
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C46 — Curve CORNELL1
PI = 10+24.78
DELTA = 3°08' 53.14" (RT)
D = 11°27' 33"
T = 13.74'
L = 27.47'
R = 500.00'
PC = 10+11.04
PT = 10+38.51
V = 30 mph

C47 — Curve ENTR_14955LT1
PI = 10+35.78
DELTA = 3°08' 53.15" (RT)
D = 11°27' 33"
T = 13.74'
L = 27.47'
R = 500.00'
PC = 10+22.04
PT = 10+49.51

10A — POT Blenheim Boulevard, Sta. 149+48.01
POT Cornell Road, Sta. 10+00.00
Delta = 90°00'00" Rt.

10B — POC Blenheim Boulevard, Sta. 149+54.51
POT Entrance, Sta. 10+00.00
Delta = 90°00'00" Lt.



Roadway Design Legend

Key Legend

1 → Denotes St'd.CG-6 Req'd.
2 → Denotes St'd.Radial CG-6 Req'd.
3 → Denotes St'd.CG-9, Type D Req'd.
4 → Denotes St'd.CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd.6' FE-CL Req'd.
10 → Denotes St'd.MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd.CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex.Conc.Sidewalk
14 → Denotes Tie to Ex.Curb and Gutter
15 → Denotes St'd.HR-1 Ty.2 Req'd.
16 → Denotes Mod.3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod.2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod.6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex.Brick Walkway
22 → Denotes Tie to Ex.Asphalt Trail
23 → Denotes Prop.Stone Walkway
24 → Denotes Tie to Ex.Stone Walkway
25 → Denotes St'd.MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd.MS-1 w/CG-3 Type Curb Req'd.

C — Denotes Construction Limits in Cuts
F — Denotes Construction Limits in Fills
R=XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd.UD-4 Req'd.
4 → St'd.CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist.Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop.Right of Way
1 — Prop.Permanent Drainage Ease. (Dot-Dashed Lines)
2 — Prop.Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 — Prop.Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 — Prop.Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 — Prop.Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 — Prop.Perpetual Street Ease. (Dot-Dashed Lines)
Prop.Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(10)
Intersection Detail Plan	1H(30) - 1H(31)
Mobility Hub Detail Plan	1H(42) - 1H(43)
Erosion Controls Ph.I & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Fairfax H.S. Outdoor Seating Details	2A(9)
Drainage Descriptions	2G - 2G(3)
BMP Details	2H - 2H(9)
Profile Blenheim Blvd	10A
Profile Cornell Rd Entrance	10B
Pavement Marking & Signing Plan	15(10)
Retaining Wall Plan & Profile	17(4)
Roadway Lighting Plan	18(10)
Existing Tree Plan	20(7)-20(8)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	10

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

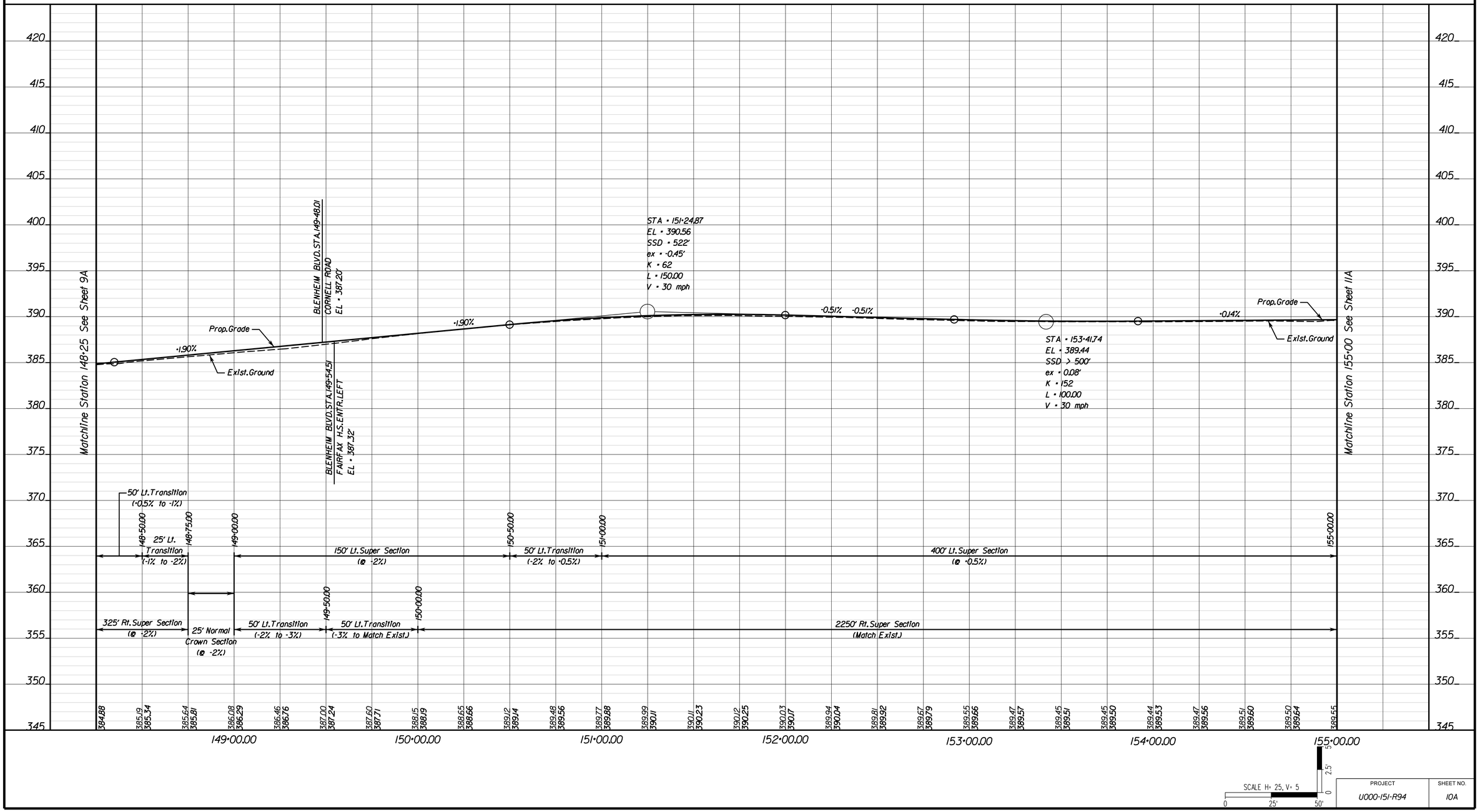
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:59:06 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	10A

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



PROJECT	SHEET NO.
U000-151-R94	10A

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

SIDE ROAD AND ENTRANCE PROFILES

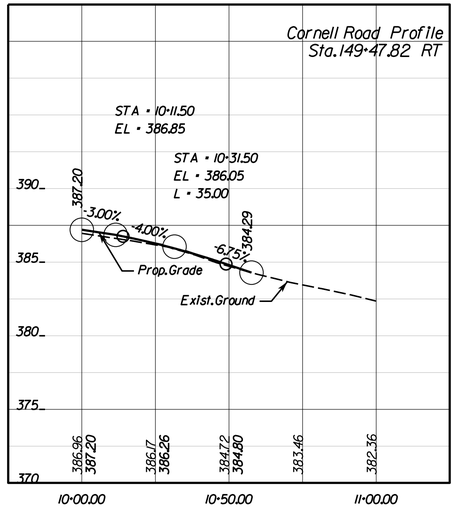
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

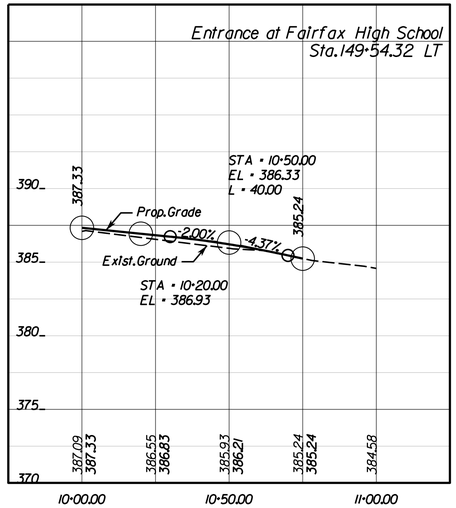
Mark Gunn
2025.12.12 11:57:37 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	10B

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





SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	10B

12/12/2025

FINAL PLANS

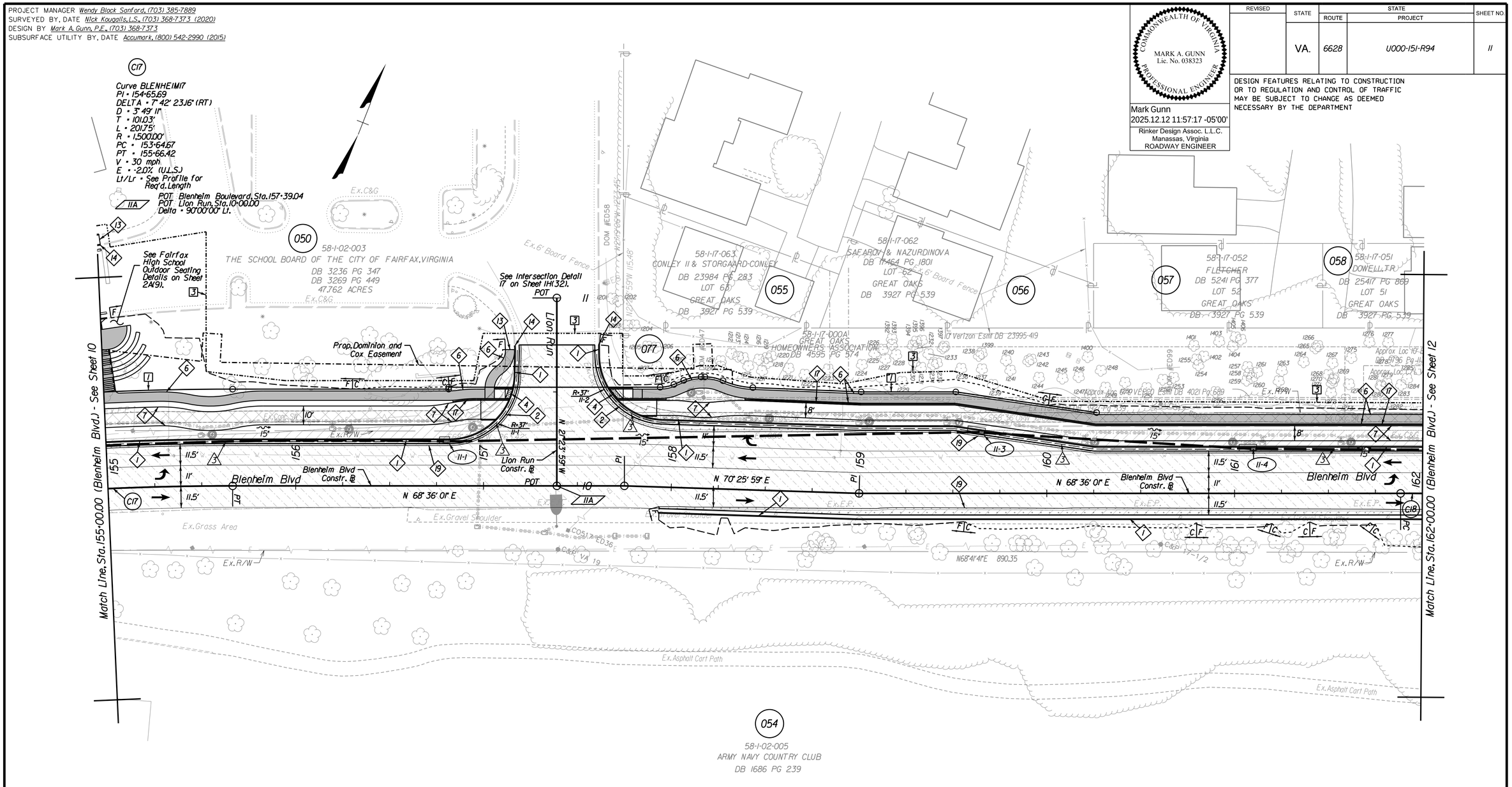
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	11

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:57:17 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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



Roadway Design Legend

Key Legend

1 → Denotes St'd.CG-6 Req'd.
2 → Denotes St'd.Radial CG-6 Req'd.
3 → Denotes St'd.CG-9, Type D Req'd.
4 → Denotes St'd.CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd.6' FE-CL Req'd.
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11 → Denotes St'd.CG-2 Req'd.
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28 → Denotes St'd.MS-1 w/CG-3 Type Curb Req'd.

C ---- Denotes Construction Limits in Cuts
F — — Denotes Construction Limits in Fills
R=XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd.UD-4 Req'd.
4 → St'd.CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist.Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
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Geometric Data Sheet	1G(11)
Intersection Detail Plan	1H(32) - 1H(33)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Fairfax H.S. Outdoor Seating Details	2A(9)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	11A
Profile Lion Run	11B
Pavement Marking & Signing Plan	15(11)
Roadway Lighting Plan	18(11)
Existing Tree Plan	20(8)-20(9)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	11

12/12/2025

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

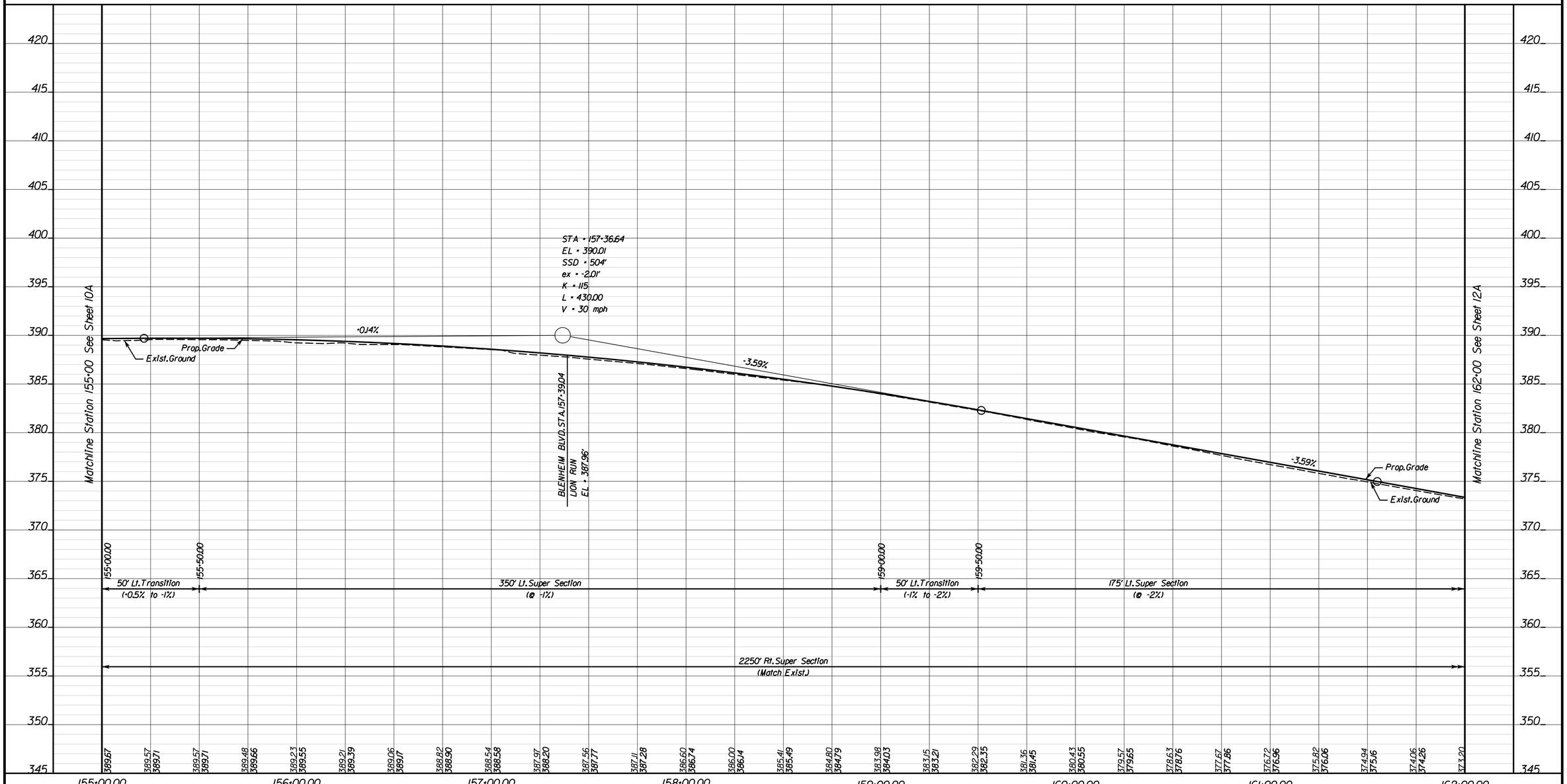
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:57:02 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	11A

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



SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	11A

12/12/2025

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

SIDE ROAD AND ENTRANCE PROFILES

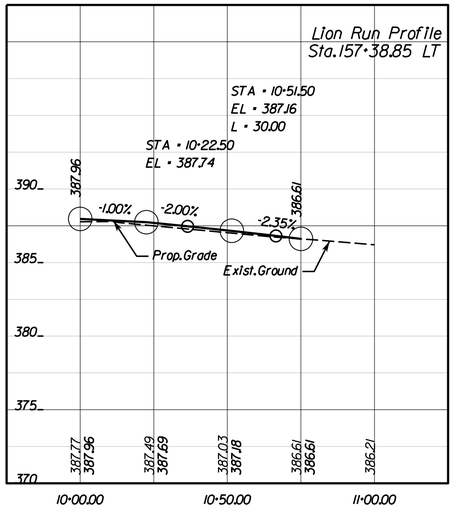
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:56:28 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	11B

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



SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	11B

12/12/2025

FINAL PLANS

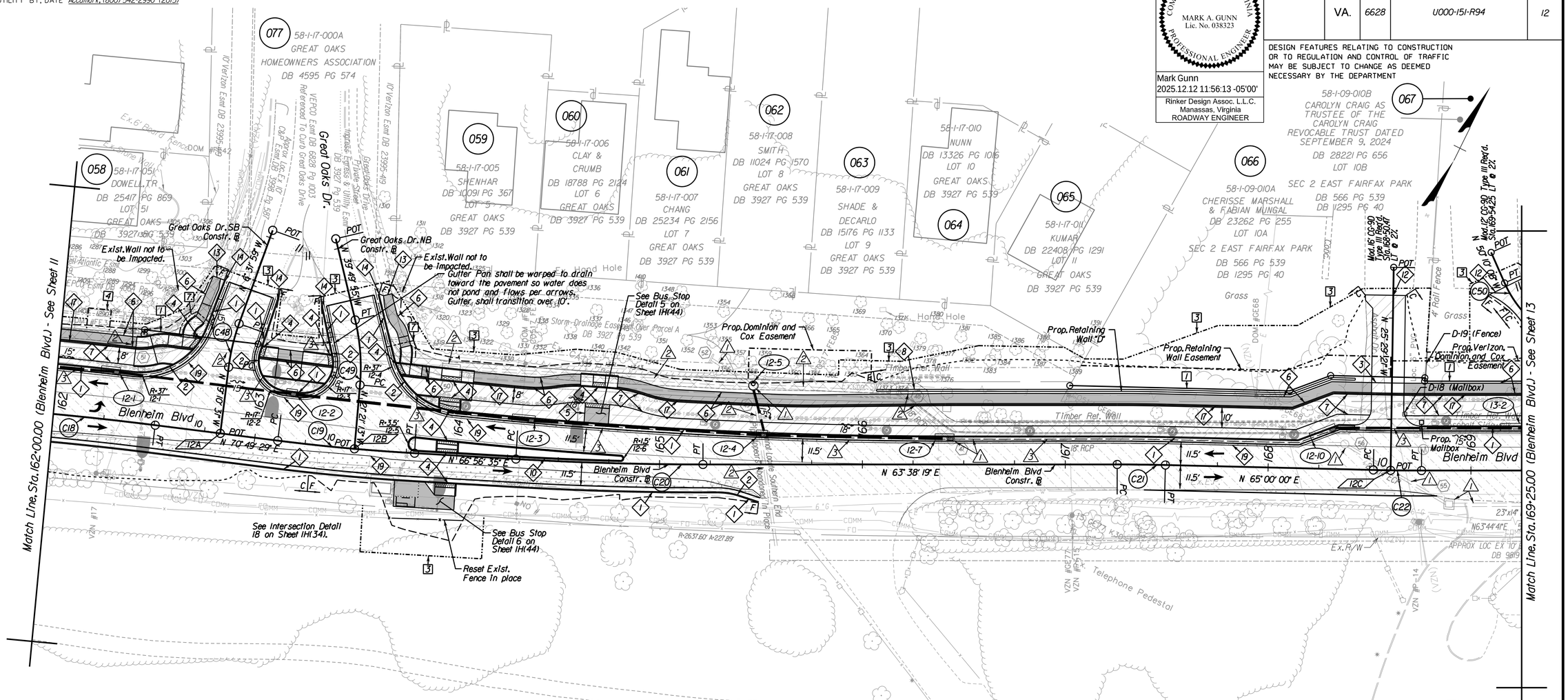
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:56:13 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	12

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



C18 — Curve BLENHEIM18
PI = 162+19.48
DELTA = 2°13'27.82" (RT)
D = 3°34'52"
T = 31.06'
L = 62.12'
R = 1,600.00'
PC = 161+88.42
PT = 162+50.53
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C19 — Curve BLENHEIM19
PI = 163+45.29
DELTA = 3°52'53.89" (LT)
D = 5°43'46"
T = 33.89'
L = 67.75'
R = 1,000.00'
PC = 163+11.40
PT = 163+79.15
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C20 — Curve BLENHEIM20
PI = 164+75.30
DELTA = 3°18'15.85" (LT)
D = 3°34'52"
T = 46.15'
L = 92.28'
R = 1,600.00'
PC = 164+29.15
PT = 165+21.42
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C21 — Curve BLENHEIM21
PI = 167+37.47
DELTA = 1°21'40.85" (RT)
D = 5°43'46"
T = 11.88'
L = 23.76'
R = 1,000.00'
PC = 167+25.59
PT = 167+49.35
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C22 — Curve BLENHEIM23
PI = 168+63.34
DELTA = 1°21'40.85" (LT)
D = 5°43'46"
T = 11.88'
L = 23.76'
R = 1,000.00'
PC = 168+51.46
PT = 168+75.22
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C48 — Curve GREATOAKS_SBI
PI = 10+43.98
DELTA = 12°38'32.57" (RT)
D = 57°17'45"
T = 11.08'
L = 22.07'
R = 100.00'
PC = 10+32.90
PT = 10+54.97
V = 30 mph

054 58-1-02-005 ARMY NAVY COUNTRY CLUB DB 1686 PG 239

12A POC Blenheim Boulevard, Sta. 162+82.86
POT Great Oaks Drive SB, Sta. 10+00.00
Delta = 90°00'00" Lt.

12B POC Blenheim Boulevard, Sta. 163+49.42
POT Great Oaks Drive NB, Sta. 10+00.00
Delta = 90°00'00" Lt.

12C POT Blenheim Boulevard, Sta. 168+60.40
POT Entrance, Sta. 10+00.00
Delta = 90°00'00" Lt.

C49 — Curve GREATOAKS_NBI
PI = 10+47.82
DELTA = 18°28'41.20" (LT)
D = 57°17'45"
T = 16.27'
L = 32.25'
R = 100.00'
PC = 10+31.56
PT = 10+63.81
V = 30 mph

C50 — Curve ENTR_I6944LT2
PI = 10+89.19
DELTA = 27°00'20.64" (RT)
D = 104°10'27"
T = 13.21'
L = 25.92'
R = 55.00'
PC = 10+75.98
PT = 11+01.90

Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines, See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(1.2)
Intersection Detail Plan	1H(34) - 1H(35)
Bus Stop Detail Plan	1H(44)
Erosion Controls Ph.1 & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	12A
Profile Great Oaks Dr. Entrances	12B
Pavement Marking & Signing Plan	15(1.2)
Retaining Wall Plan & Profile	17(6)
Roadway Lighting Plan	18(1.2)
Existing Tree Plan	20(9)-20(10)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	12

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

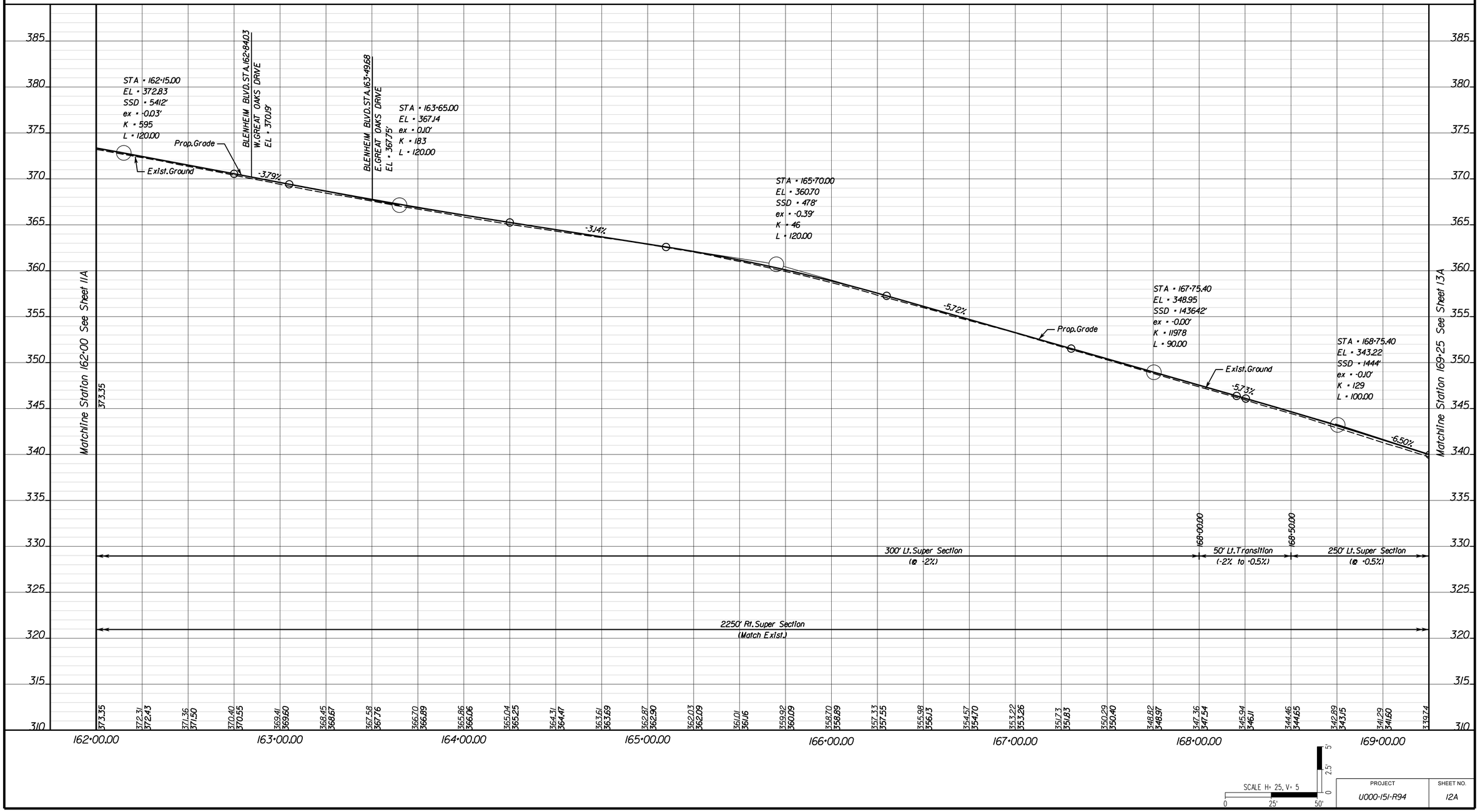
BLENHEIM BOULEVARD PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:55:55 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	12A

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



PROJECT	SHEET NO.
U000-151-R94	12A

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

SIDE ROAD AND ENTRANCE PROFILES

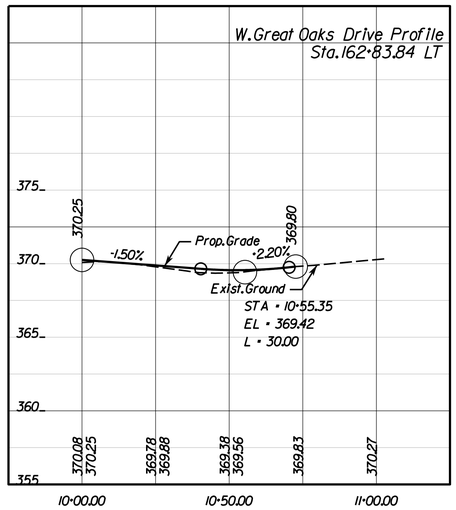
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

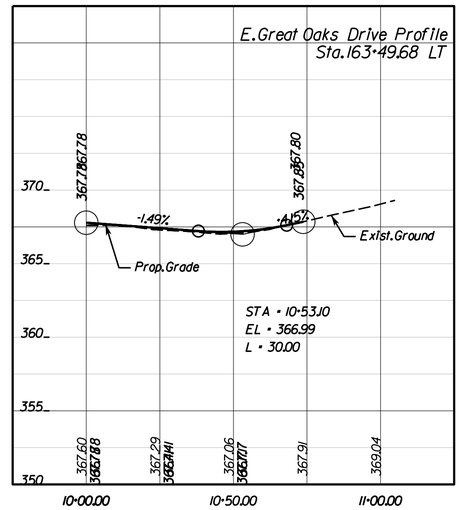
Mark Gunn
2025.12.12 11:55:42 -05'00'

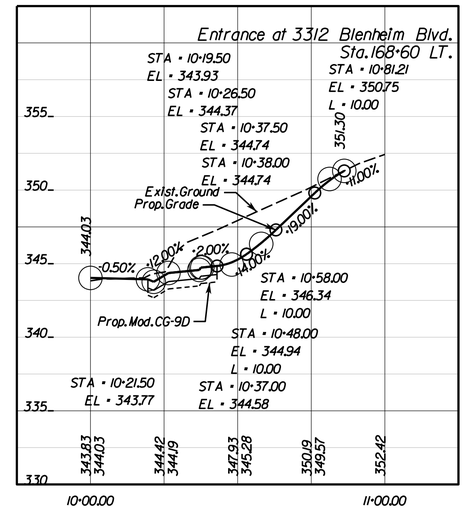
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	12B

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







SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	12B

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
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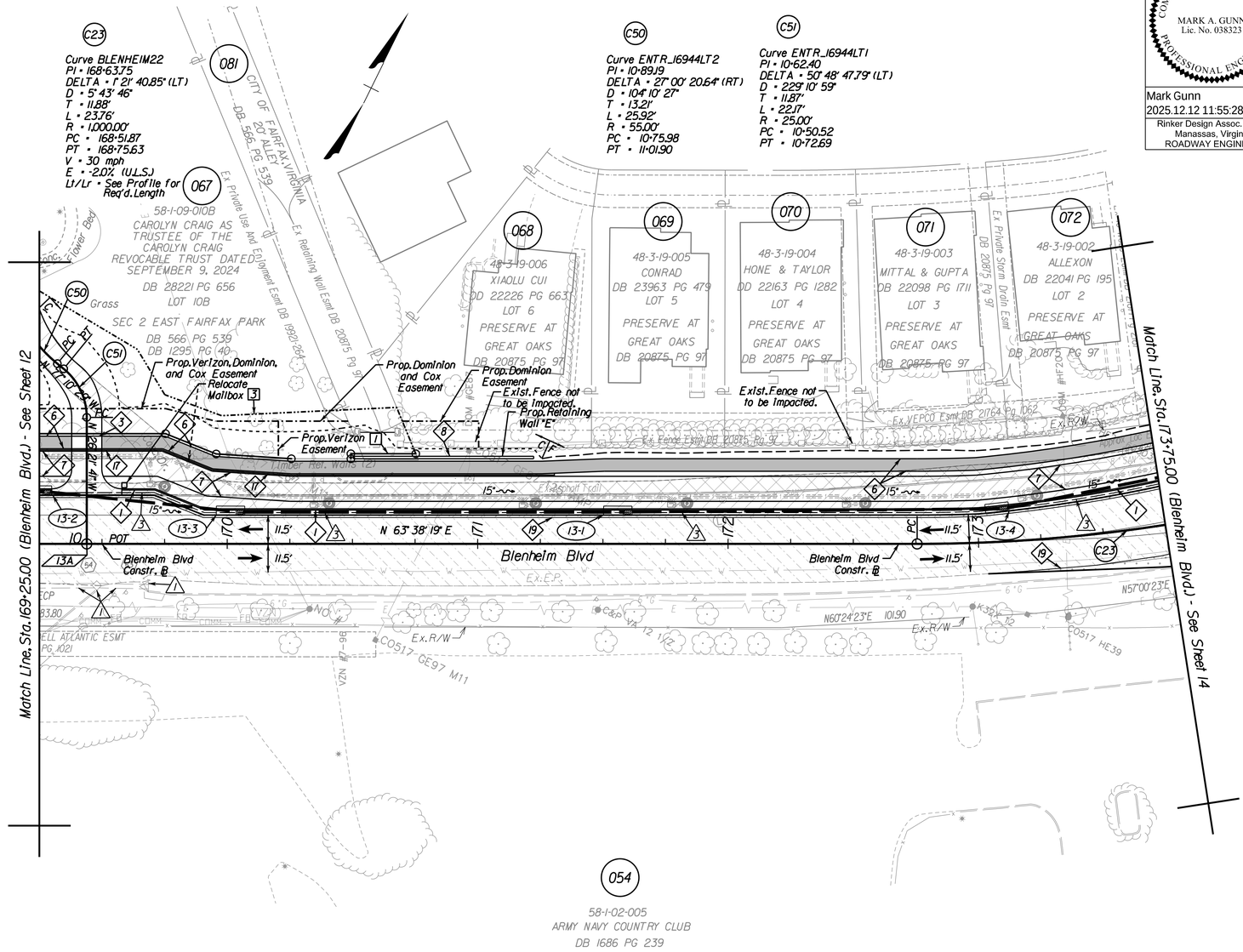

13A — POT Blenheim Boulevard, Sta. 169+43.90
POT Entrance, Sta. 10+00.00
Delta = 90°00'00" Lt.

Mark Gunn
2025.12.12 11:55:28 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA — MARK A. GUNN, Lic. No. 038323 — PROFESSIONAL ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	13

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

Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' F.E.-Ct. Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. 6" Curb & Gutter Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
21 → Denotes Tie to Ex. Brick Walkway
22 → Denotes Tie to Ex. Asphalt Trail
23 → Denotes Prop. Stone Walkway
24 → Denotes Tie to Ex. Stone Walkway
25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R=XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines, See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(1.3)
Erosion Controls Ph.1 & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	13A
Profile Entrances	13B
Pavement Marking & Signing Plan	15(13)
Retaining Wall Plan + Profile	17(7)
Roadway Lighting Plan	18(13)
Existing Tree Plan	20(10)-20(11)

SCALE 0 — 25' — 50'

PROJECT	SHEET NO.
U000-151-R94	13

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

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PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:55:10 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	13A

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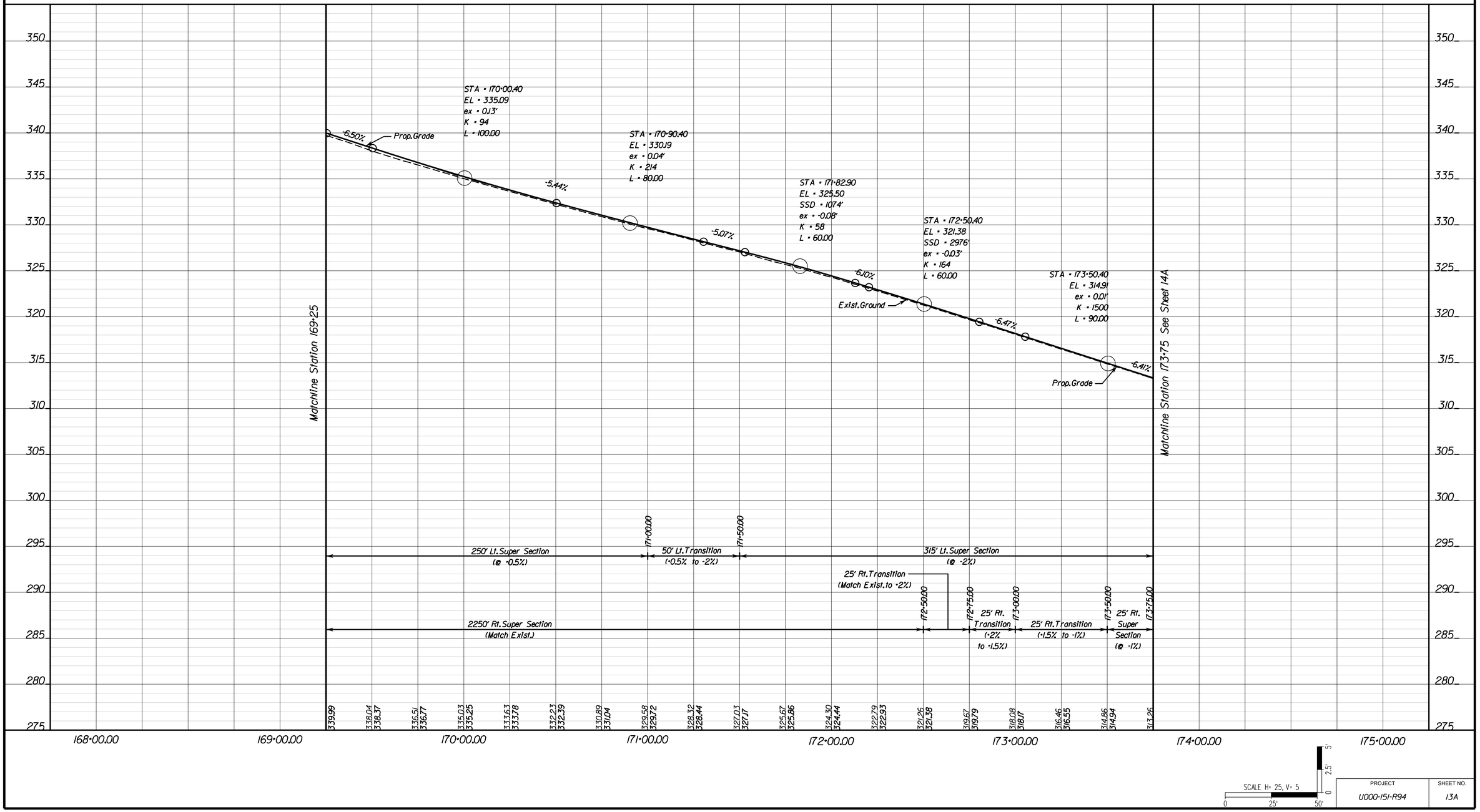

SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	13A

12/12/2025

FINAL PLANS

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SIDE ROAD AND ENTRANCE PROFILES

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Mark Gunn
2025.12.12 11:54:28 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	13B

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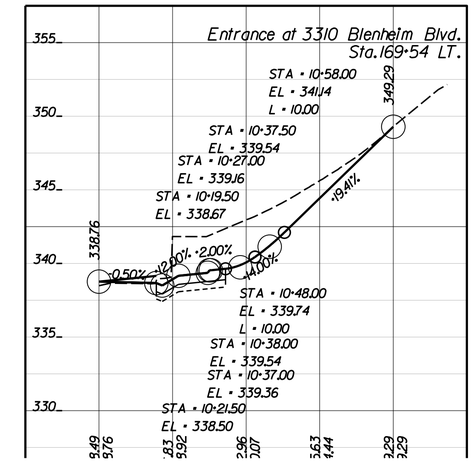

SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	13B

12/12/2025

FINAL PLANS

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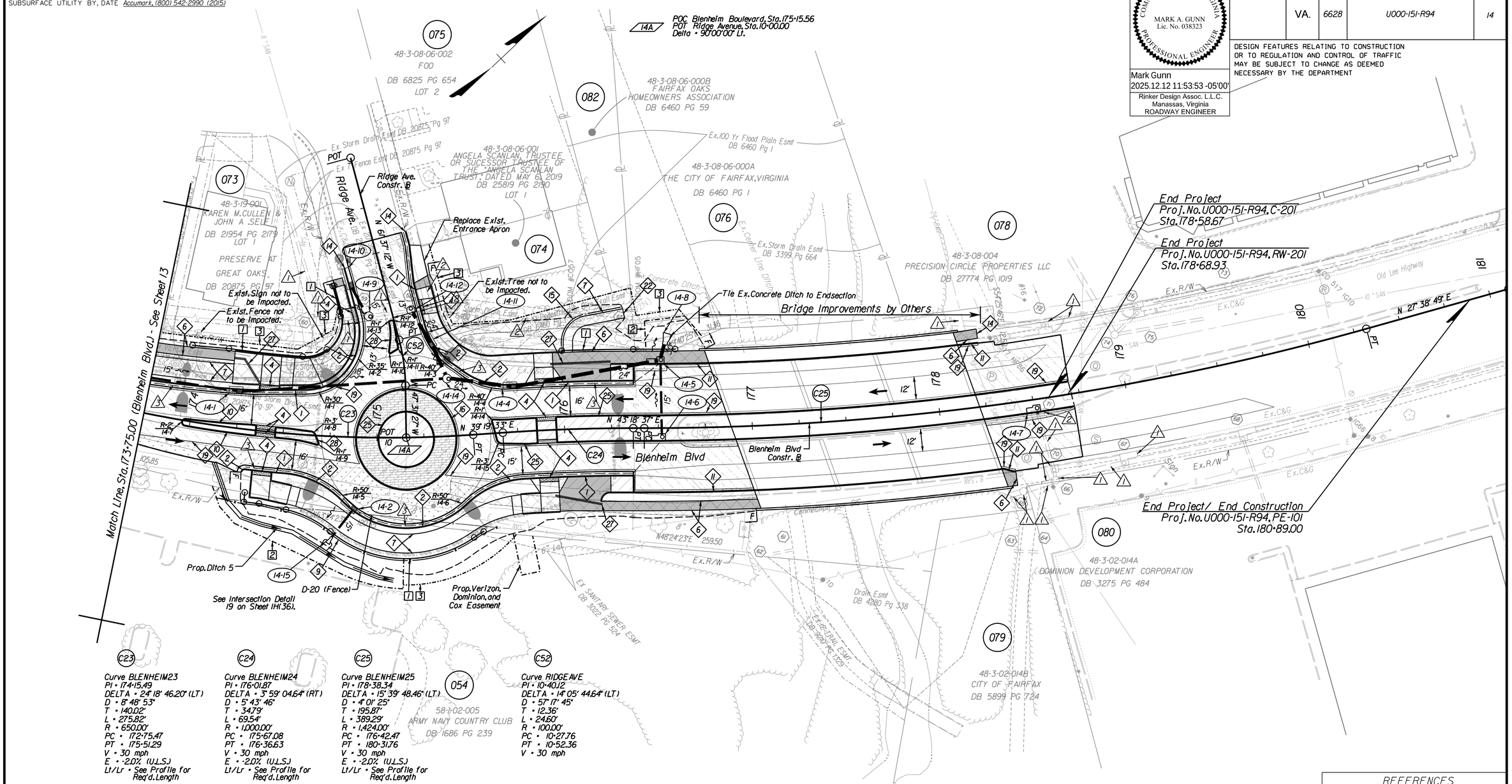
COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:53:53 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	14

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



C23 — Curve BLENHEIM23
PI = 174+15.49
DELTA = 24° 18' 46.20" (LT)
D = 8° 48' 53"
T = 140.02'
L = 275.82'
R = 650.00'
PC = 172+75.47
PT = 175+51.29
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C24 — Curve BLENHEIM24
PI = 176+01.87
DELTA = 3° 59' 04.64" (RT)
D = 5° 43' 46"
T = 34.79'
L = 69.54'
R = 1,000.00'
PC = 175+67.08
PT = 176+36.63
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C25 — Curve BLENHEIM25
PI = 178+38.34
DELTA = 15° 39' 48.46" (LT)
D = 4° 01' 25"
T = 195.87'
L = 389.29'
R = 1,424.00'
PC = 176+42.47
PT = 180+31.76
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C52 — Curve RIDGEAVE
PI = 10+40.12
DELTA = 14° 05' 44.64" (LT)
D = 57° 17' 45"
T = 12.36'
L = 24.60'
R = 100.00'
PC = 10+27.76
PT = 10+52.36
V = 30 mph

Roadway Design Legend

Key Legend

1 → Denotes St'd. CG-6 Req'd.
2 → Denotes St'd. Radial CG-6 Req'd.
3 → Denotes St'd. CG-9, Type D Req'd.
4 → Denotes St'd. CG-12 DWS
5 → Denotes Concrete Bus Pad Req'd.
6 → Denotes Concrete Sidewalk Req'd.
7 → Denotes Asphalt Trail Req'd.
8 → Denotes Retaining Wall Req'd.
9 → Denotes St'd. 6' FE-CL Req'd.
10 → Denotes St'd. MS-1 w/CG-2 Type Curb Req'd.
11 → Denotes St'd. CG-2 Req'd.
12 → Denotes Tie to Existing Driveway
13 → Denotes Tie to Ex. Conc. Sidewalk
14 → Denotes Tie to Ex. Curb and Gutter
15 → Denotes St'd. HR-1 Ty. 2 Req'd.
16 → Denotes Mod. 3" Curb Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. 2" Curb Req'd. See Sheet 1H(46) for Details
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25 → Denotes St'd. MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes St'd. MS-1 w/CG-3 Type Curb Req'd.

C ____ Denotes Construction Limits in Cuts
F __ __ Denotes Construction Limits in Fills
R-XX / CR — Curb Return See Sheets 2B-2B(7)
Denotes Proposed Lighting Features See 18 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/ Abandoned
3 → St'd. UD-4 Req'd.
4 → St'd. CD-2 Req'd.

Pavement Legend

Full Depth Pavement
Mill and Overlay
Concrete Sidewalk
Demolition of Pavement
Demolition of Exist. Trail/Sidewalk
Concrete Truck Apron

NOTE: Full Depth Sawcut Req'd. Between Proposed Full Depth Pavement and Exist. Pavement/Mill and Overlay

Right of Way Legend

Key Legend
Prop. Right of Way
1 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
2 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
3 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
4 Prop. Permanent Utility Ease. (Dot-Dashed Lines. See Label for Owner)
6 Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
7 Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

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

Survey Control Data Sheet	1F
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Geometric Data Sheet	1G(14)
Intersection Detail Plan	1H(36) - 1H(38)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	14A
Profile Ridge Avenue	14B
Pavement Marking & Signing Plan	15(14)
Roadway Lighting Plan	18(14)
Existing Tree Plan	20(11)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	14

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

BLENHEIM BOULEVARD PROFILE

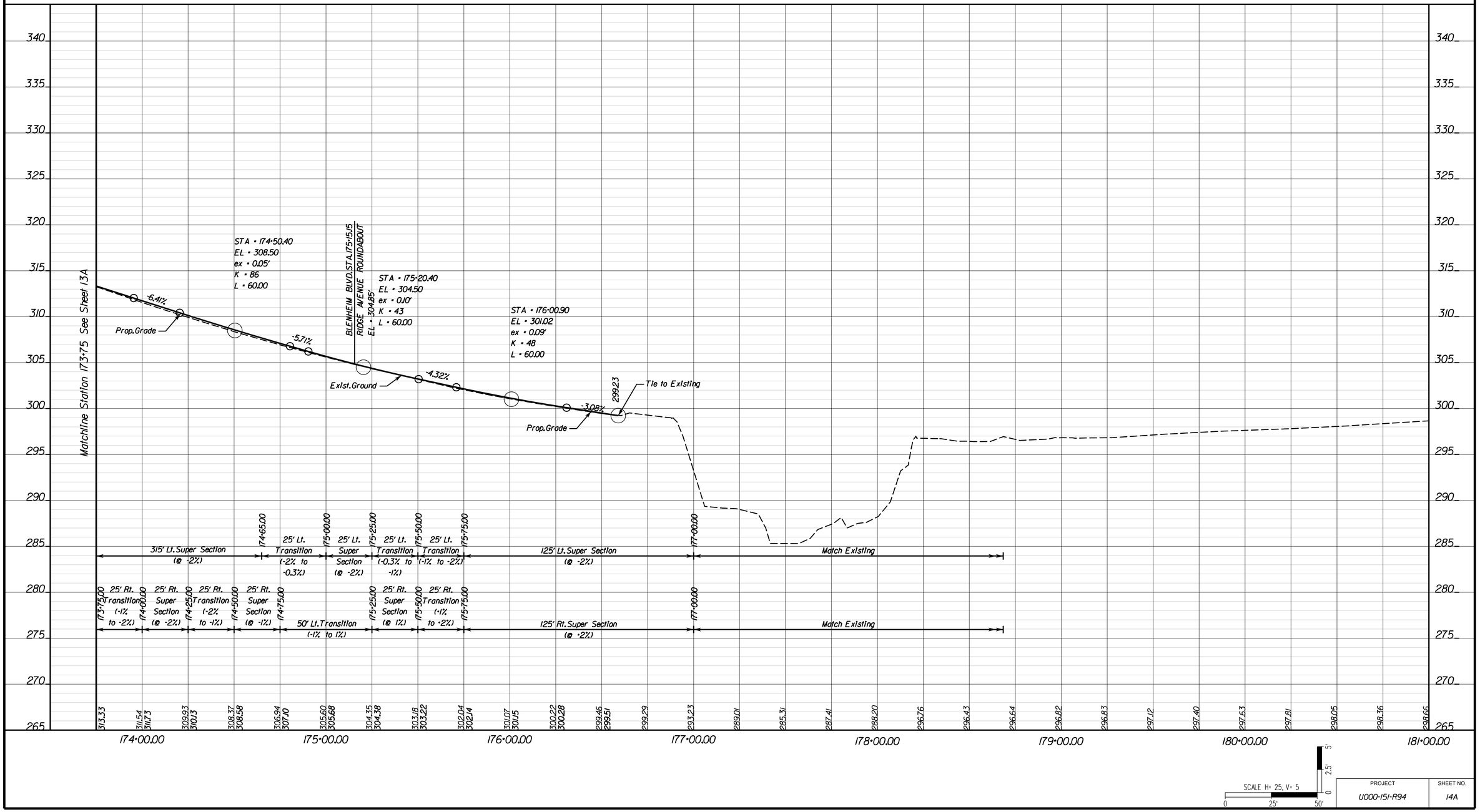
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:53:38 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	14A

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



SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	14A

FINAL PLANS

12/12/2025

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, L.S., (703) 368-7373 (2014)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

SIDE ROAD PROFILE

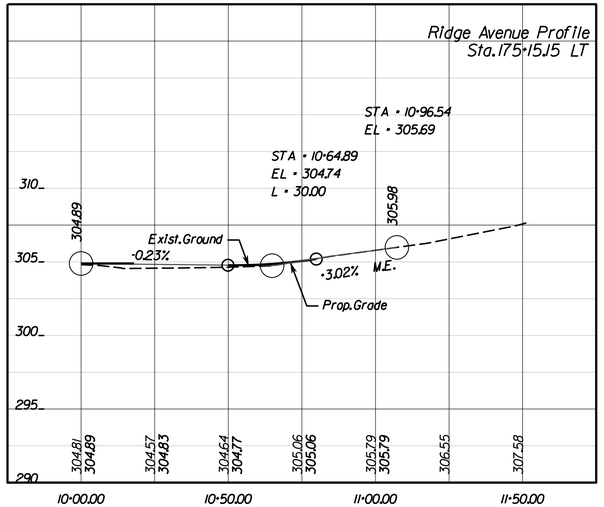
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.12 11:53:26 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	14B

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



SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	14B

12/12/2025

FINAL PLANS

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

PAVEMENT MARKING AND SIGNING PLAN: SIGN SCHEDULE

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

COMMONWEALTH OF VIRGINIA
JEREMY ANDREW CHRZAN
Lic. No. 0402055387
PROFESSIONAL ENGINEER
1.22.26

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

SIGN SCHEDULE (1 OF 2)

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
1	101 105		R10-11	24	30	2	5	10	SIGNAL MAST ARM	SEE SIGNAL PLAN SHEET 16(3)
2	102		R10-3e (L)	9	15	1	0.9375	0.9375	PED PUSH BUTTON	SEE SIGNAL PLAN SHEET 16(3)
3	103		R9-5	12	18	1	1.5	1.5	PED PUSH BUTTON	
			R10-3e (L)	9	15	1	0.9375	0.9375	PED PUSH BUTTON	
4	104		R9-5	12	18	1	1.5	1.5	SIGNAL POLE	
5	1101		R-107 (R) (MOD)	10	18	1	1.25	1.25	SQ. METAL	
6	202 205 301 1102		R-107 (L) MOD	10	18	4	1.25	5	SQ. METAL	
7	203 204		R1-6A	12	36	4	6	24	IN-ROAD SIGN	SIGNS TO BE INSTALLED BACK TO BACK

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
8	206 207 801 802		W11-2	36	36	8	9	72	RRFB, SOLAR	SEE DETAIL 4A, SHEET 15(16)
			W16-7P(L)	24	12	4	2	8		
			W16-7P(R)	24	12	4	2	8		
9	401 402	NEW BUS STOP SIGN	SPECIAL			2	0	0	CUSTOM	
10	601 602	NEW BUS STOP SIGN	SPECIAL			2	0	0	CUSTOM	
11	901		SPECIAL	30	30	1	6.25	6.25	SQ. METAL	R10-15 MOD
12	902		S5-1	24	48	1	8	8	SQ. METAL	REQ. ELECTRIC
13	1101 1301		W2-6	30	30	2	6.25	12.5	SQ. METAL	
			W16-17P	24	12	2	2	4		
			W13-1	18	18	2	2.25	4.5		

NOTES:
1) ALL SIGNS SHALL BE ORIENTED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) NEW BUS STOP SIGN DETAIL TO BE PROVIDED BY CITY OF FAIRFAX.

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

PAVEMENT MARKING AND SIGNING PLAN: SIGN SCHEDULE

COMMONWEALTH OF VIRGINIA
JEREMY ANDREW CHRZAN
Lic. No. 0402055387
PROFESSIONAL ENGINEER
1.22.26
TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

SIGN SCHEDULE (2 OF 2)

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): PER ASSEMBLY	ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
14	1201 1205 1209 1210	TRAIL X-ING	W11-15	30	30	4	6.25	25	SQ. METAL	
			W11-15P	24	12	4	2	8		
15	1202 1204 1206	YIELD	R1-2	36	36	3	9	27	SQ. METAL	
16	1203 1207 1208		R6-4	30	24	3	5	15	SQ. METAL	
17	1302	BIKE LANE ENDS	R3-17	24	18	1	3	3	SQ. METAL	
			R3-17bP	24	8	1	1.33	1.33	SQ. METAL	
19	701	SPEED LIMIT 30	R2-1	24	30	1	5	5	SQ. METAL	
20	106 107 403 404 1001 1002		R4-7	24	30	6	5	30	SQ. METAL	
21	1303		W4-2R	30	30	1	6.25	6.25	SQ. METAL	
22	108 405	AHEAD	W16-9P	24	12	1	2	2	SQ. METAL	
23	206 207 302 303		W16-7pL	24	12	4	2	8	SQ. METAL	

NOTES:

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6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) NEW BUS STOP SIGN DETAIL TO BE PROVIDED BY CITY OF FAIRFAX.

STANDARD SIGN LEGEND

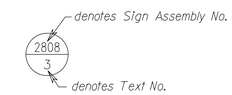
PLAN ITEM	PLAN SYMBOL: PROPOSED	EXISTING
Single Post Sign Support		
Double Post Sign Support		
Triple Post Sign Support		
Flashing Beacon		
O/H Cantilever Sign Support		
O/H Span Sign Support		

SIGN CALL-OUTS

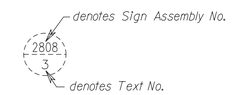
Existing Sign to Remain or to be Relocated	EXISTING 95
Existing Sign to be Removed	EXISTING 95
Proposed Sign Panel	PROPOSED 95

SIGN LABELS

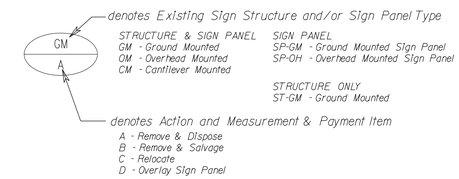
Proposed Sign Assemblies



Relocated Sign Assemblies



Sign Relocation or Payable Sign Disposal/Salvage



Signs noted on plans to be removed that do not have an accompanying sign label shall not be measured separately for payment. Removal and disposal for such signs shall be incidental to other contract items.

* If a trash receptacle exists on a sign post to be relocated, contractor shall remove trash receptacle and coordinate with the City of Fairfax to either dispose of or return the trash receptacle to the City. Sign relocation cost shall include disposal or transport to the City's requested location.

FINAL PLANS

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950
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)
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SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

PAVEMENT MARKING AND SIGNING PLAN: PAVEMENT MARKING LEGEND

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
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FAX: 301.927.2800
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(2)

COMMONWEALTH OF VIRGINIA
JEREMY ANDREW CHRZAN
Lic. No. 0402055387
PROFESSIONAL ENGINEER
1.22.26

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
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

PAVEMENT MARKING LEGEND

(#) → Key Legend

A → Type B, Class I, White, 4" Width
B → Type B, Class I, White, 4" Width, 10' Long, 30' Spacing
C → Type B, Class I, White, 4" Width, 2' Long, 6' Spacing
D → Type B, Class I, White, 24" Width
E → Type B, Class I, White, 8" Width, 2' Long, 6' Spacing
F → Type B, Class I, Yellow, 4" Width
G → Type B, Class I, Yellow, 4" Width, Double Line, 4" Spacing
H → Type B, Class I, White, 24" Width, 10' Length, 24" Spacing
I → Type B, Class I, White, 24" Width, 12' Spacing @ 45°
J → Type B, Class I, Yellow, 24" Width, 12' Spacing @ 45°
K → Type B, Class II, White, Turn Lane Use Arrow
L → Type B, Class II, White, "Only" Pavement Marking
M → Type B, Class II, White, "Shared Lane" Marking Symbol
N → Type B, Class I, Yellow, 4" Width, 3' Long, 9' Spacing
O → Type B, Class I, White, 12" Width
P → See Detail 3, Sheet 15(16), Bicycle Lane Symbol
Q → See Detail 2, Sheet 15(16), Two-Way Bikeway Crossing
R → See Details 1A & 1B, Sheet 15(16), Pedestrian Bikeway Crossing
S → Type B, Class II, White, Double Turn Lane Use Arrow
TE → Denotes Tie to Existing Pavement Marking
▼ → Type B, Class II, White, 24" "Yield" Marking Symbol
→ Shading Denotes Areas of New Roadway Surface Pavement

Note:

Any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT standards. The cost shall be incidental to the project and not paid for as a separate item.

PROJECT	SHEET NO.
U000-151-R94	15(2)

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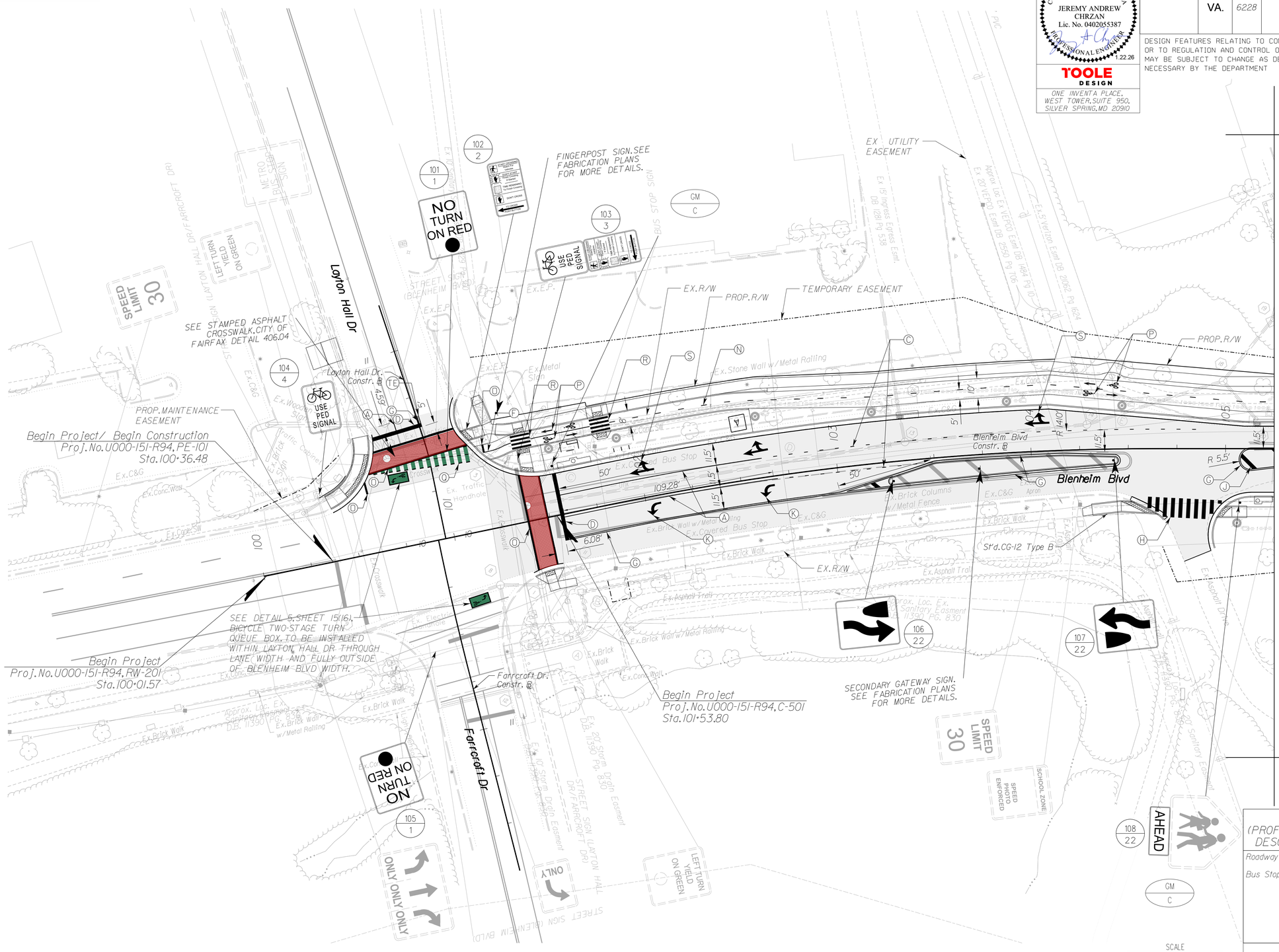
PAVEMENT MARKING AND SIGNING PLAN



COMMONWEALTH OF VIRGINIA
JEREMY ANDREW CHRZAN
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PROFESSIONAL ENGINEER
1.22.26

TOOLE DESIGN
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(3)

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

Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
U000-151-R94	15(3)

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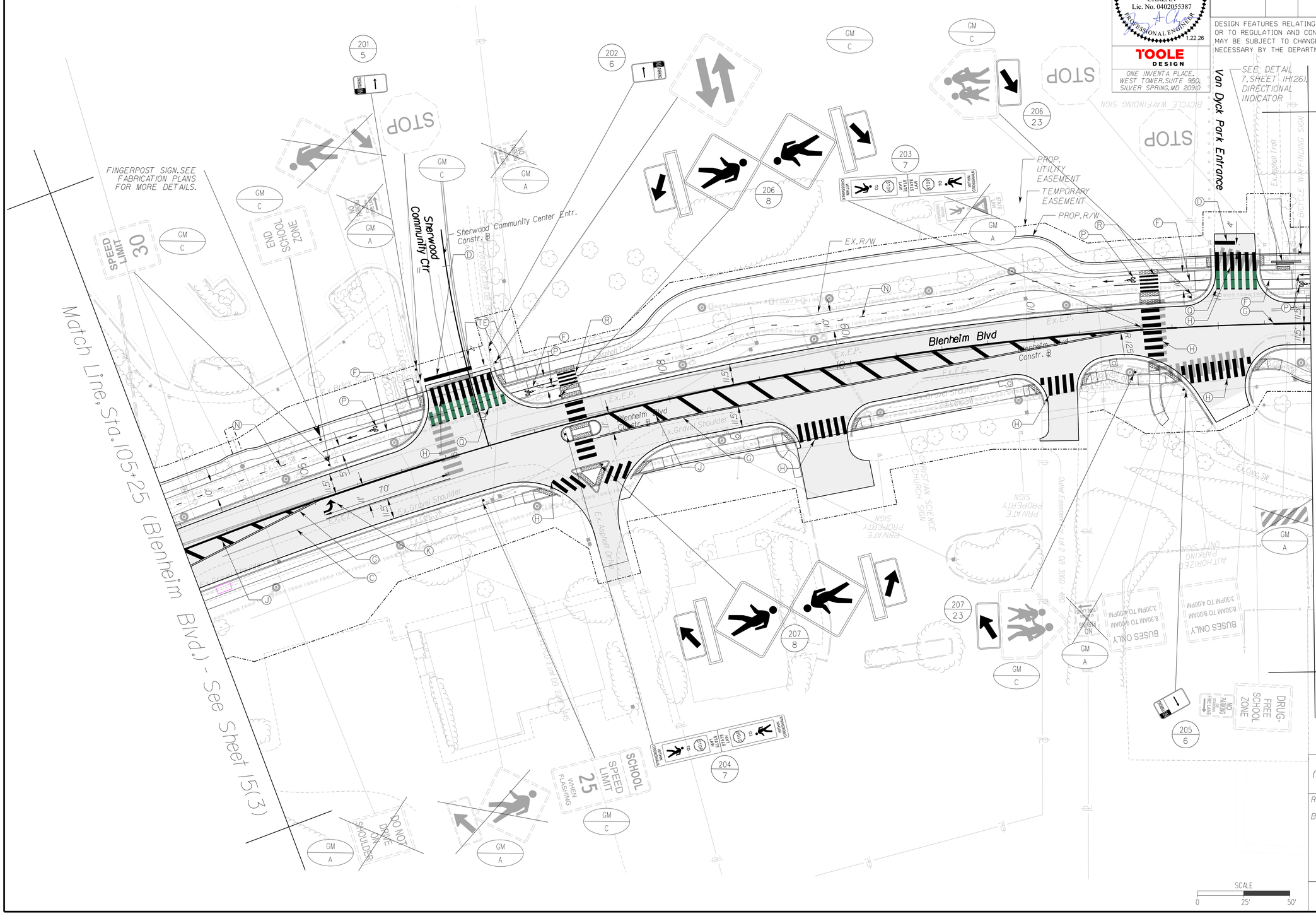

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(4)

COMMONWEALTH OF VIRGINIA
JEREMY ANDREW CHRZAN
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1.22.26

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

Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
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	VA.	6228	U000-151-R94	15(5)

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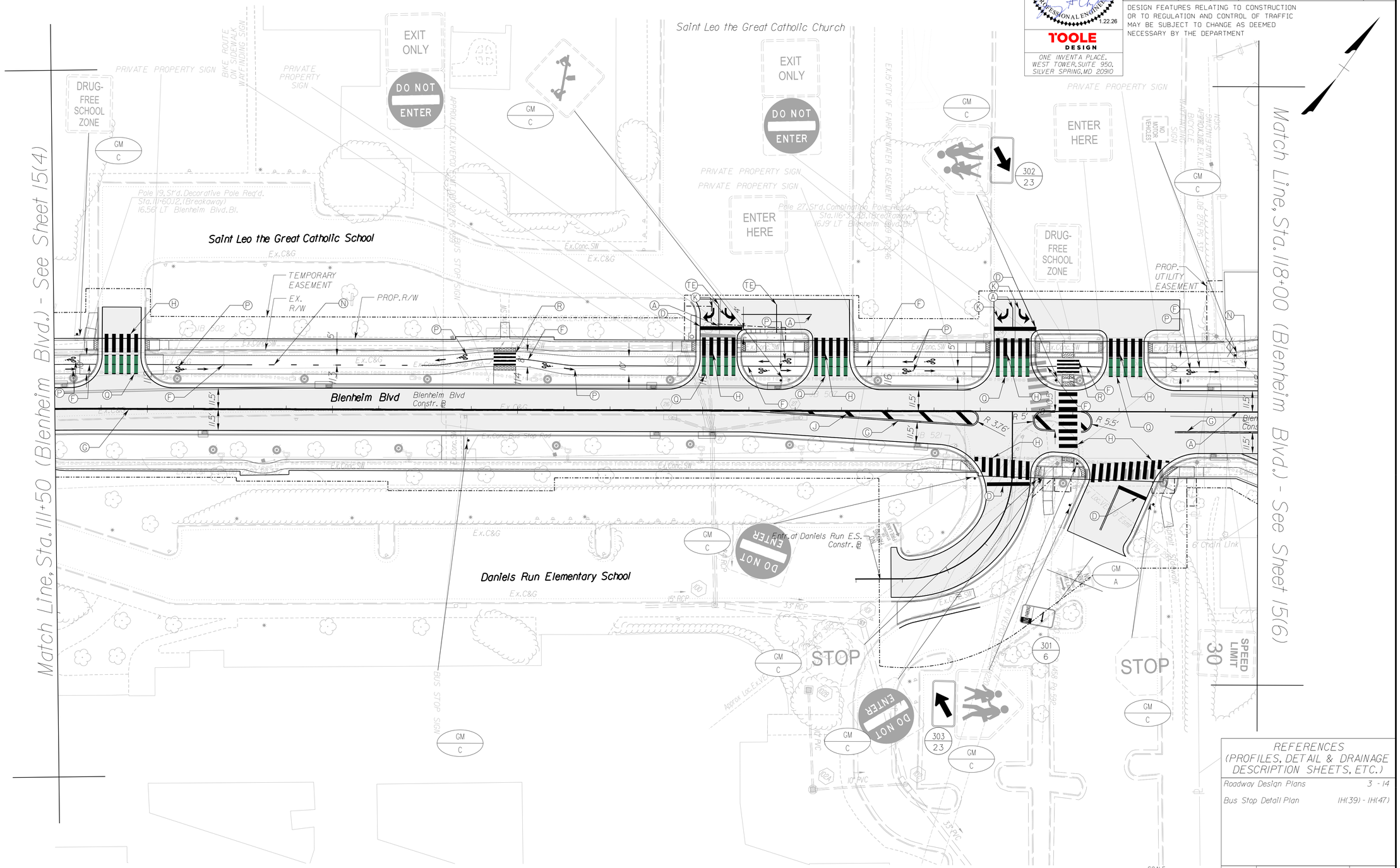

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
U000-151-R94	15(5)

FINAL PLANS

1/22/2026
1:50:03 PM

dl07013_015(3).dgn
Plotted By: ClaySublett

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	VA.	6228	U000-151-R94	15(6)

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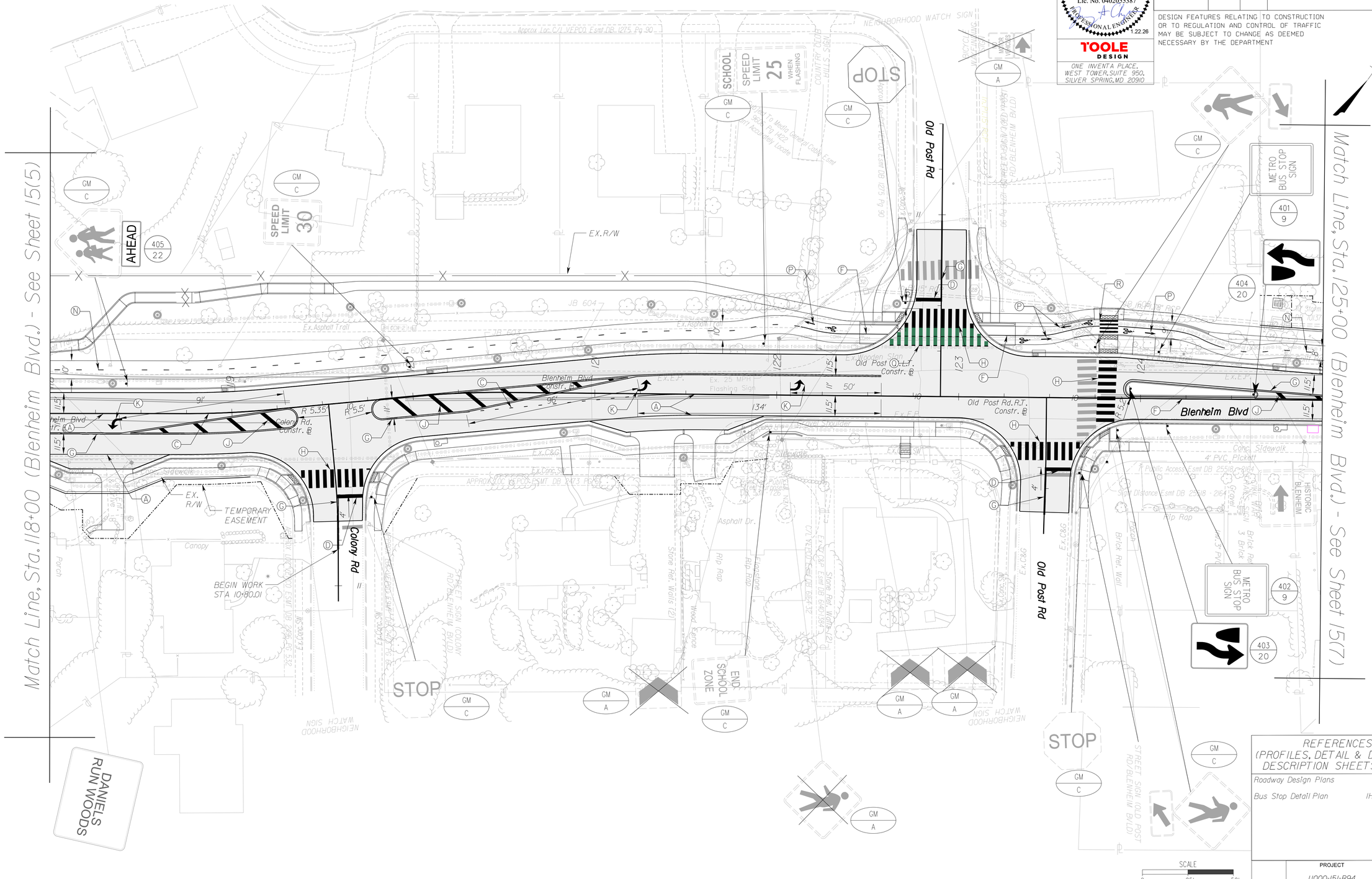

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Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

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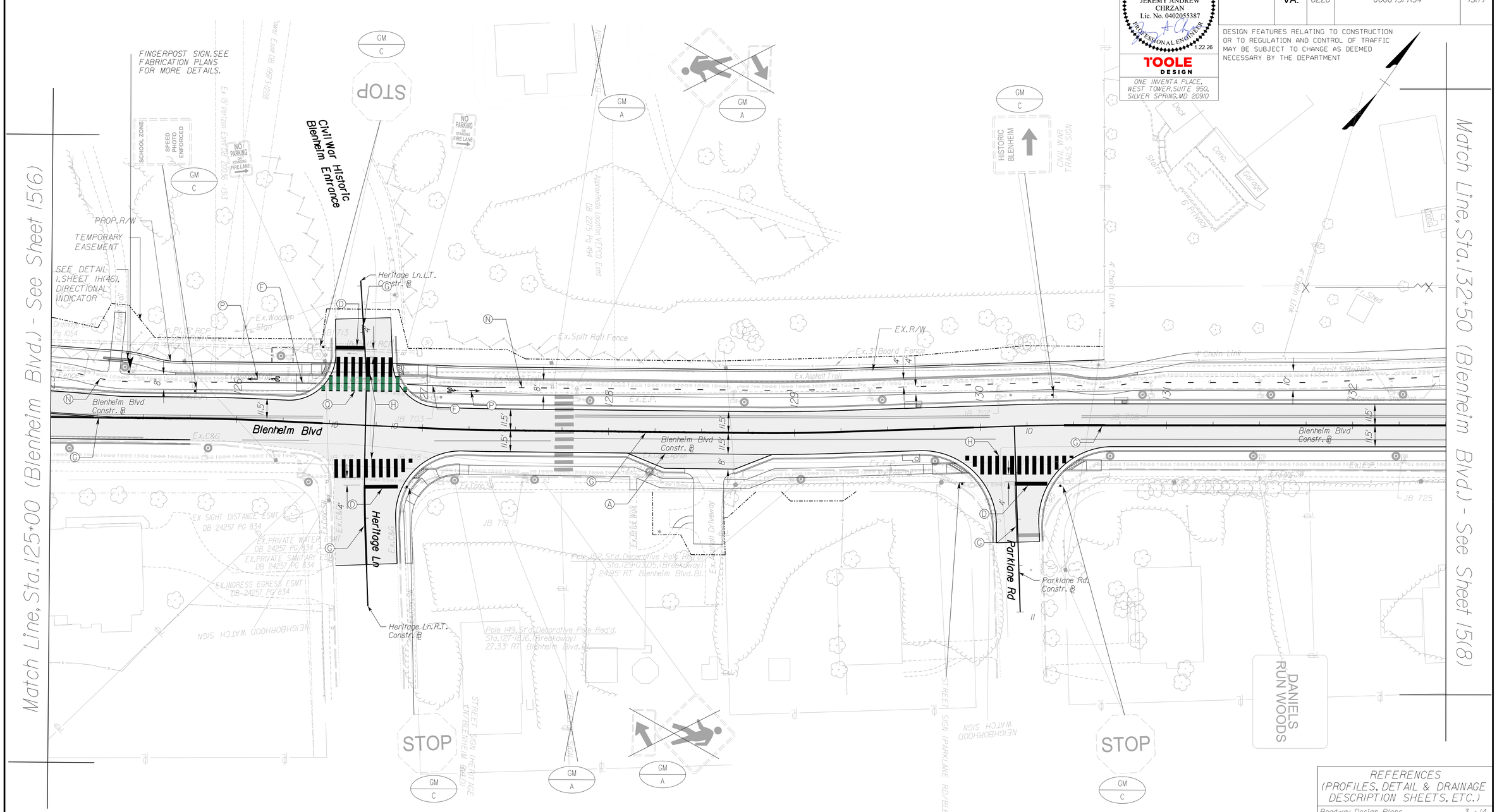
PAVEMENT MARKING AND SIGNING PLAN

COMMONWEALTH OF VIRGINIA
JEREMY ANDREW CHRZAN
Lic. No. 0402055387
PROFESSIONAL ENGINEER
1.22.26

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(7)

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



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
U000-151-R94	15(7)

FINAL PLANS

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Plotted By: ClaySublett

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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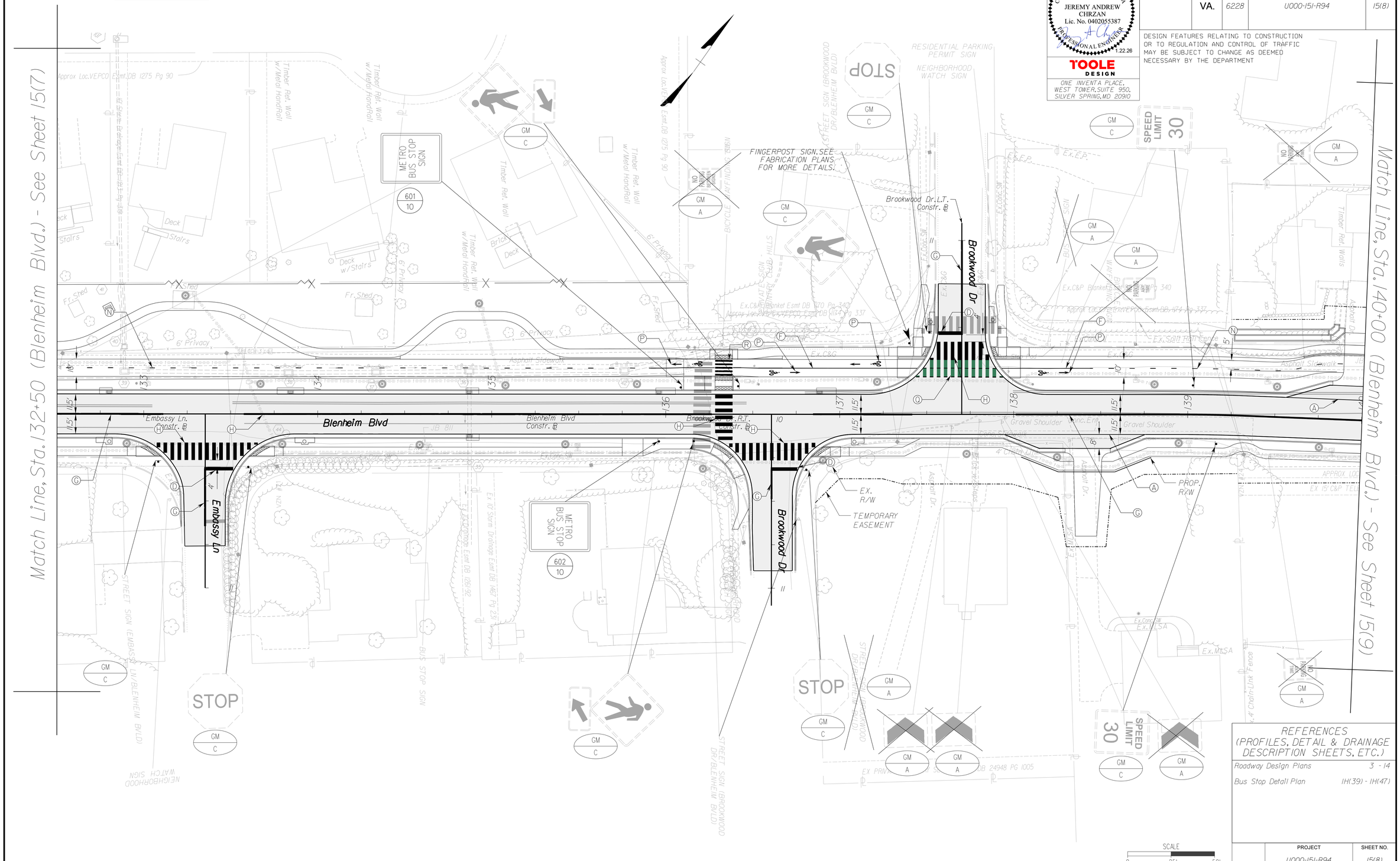

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(8)

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PROJECT	SHEET NO.
U000-151-R94	15(8)

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(9)

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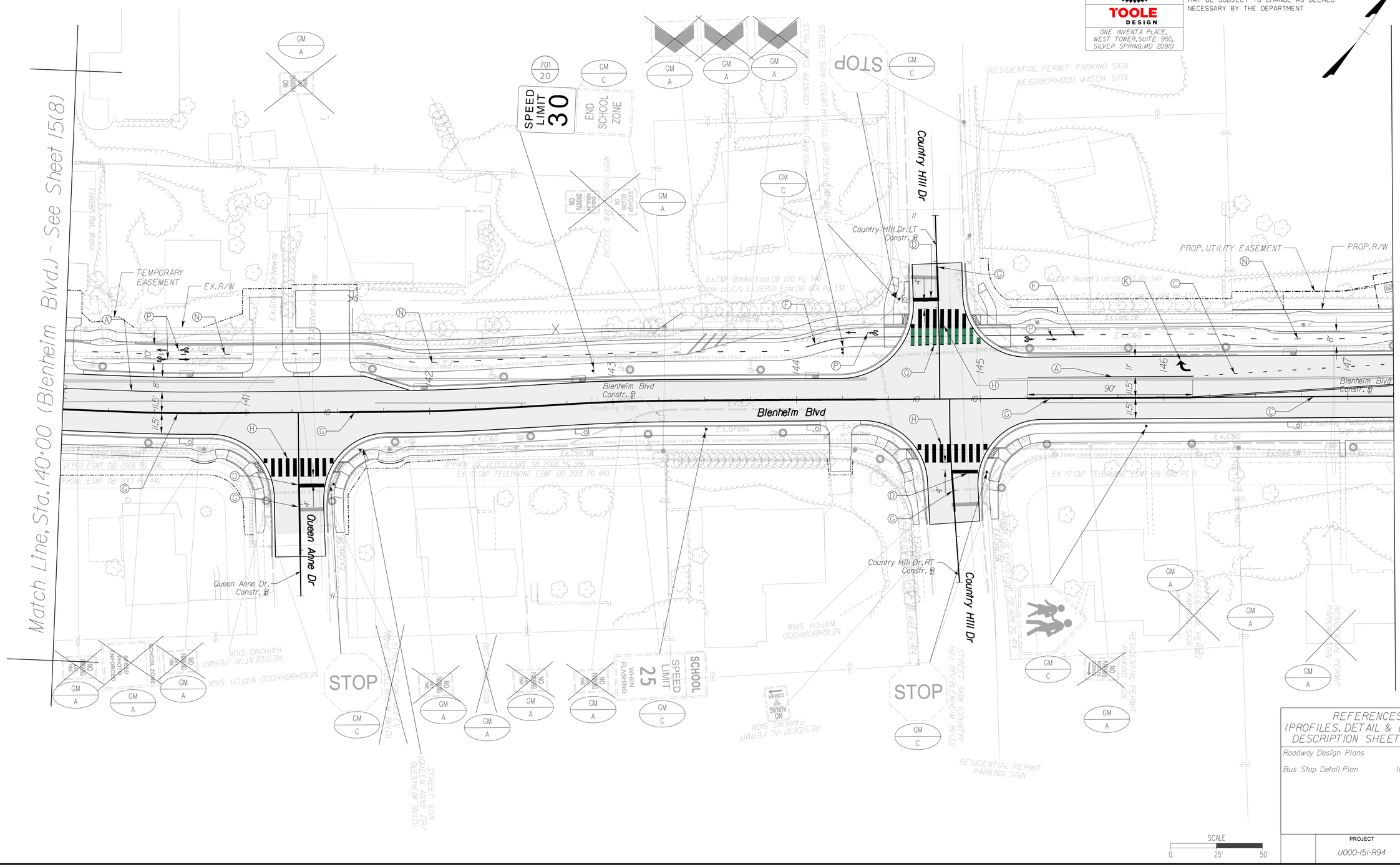

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
U000-151-R94	15(9)

FINAL PLANS

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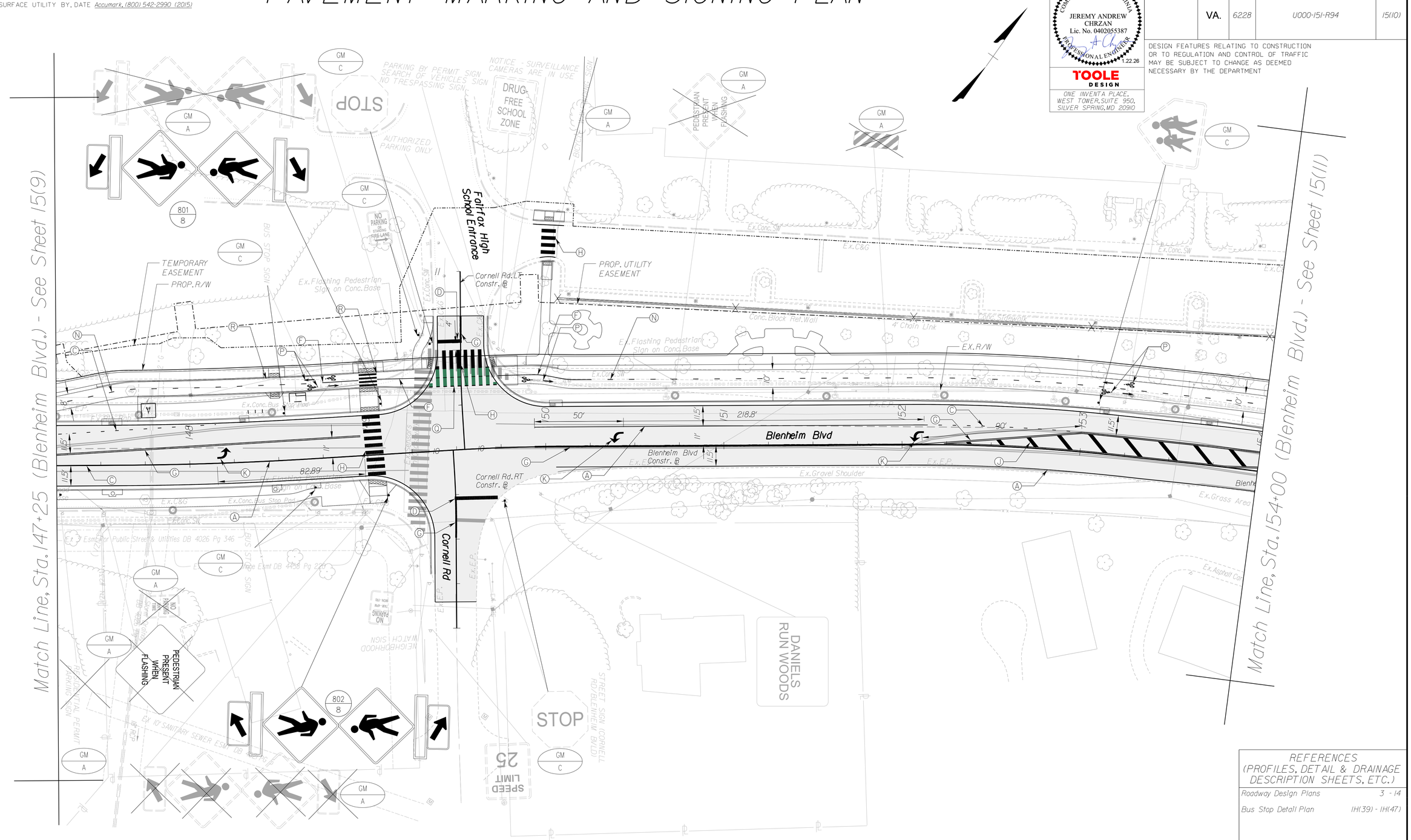

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(10)

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Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

SCALE
0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	15(10)

FINAL PLANS

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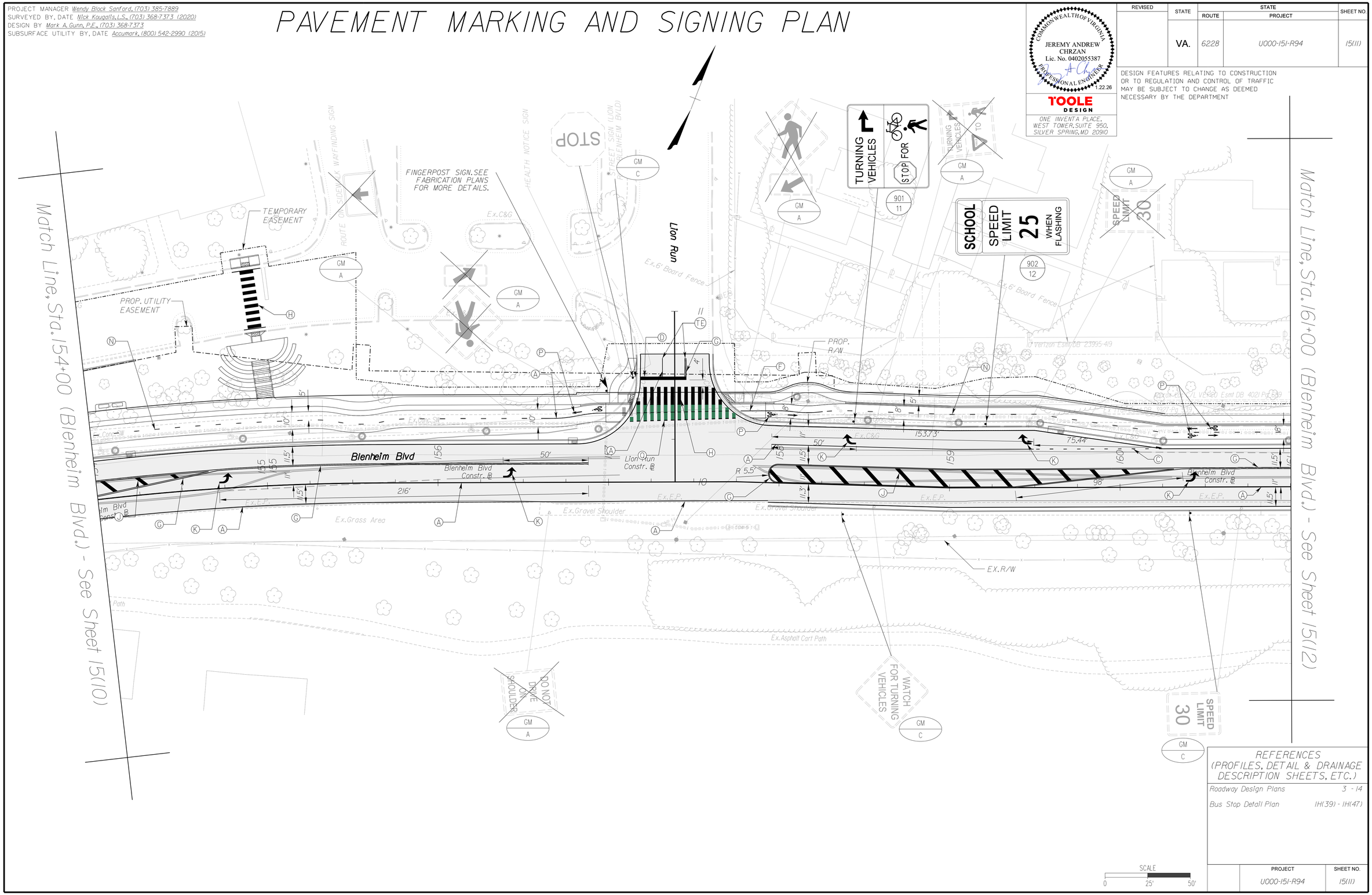

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(11)

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Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	15(11)

FINAL PLANS

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PAVEMENT MARKING AND SIGNING PLAN

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1.22.26

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(12)

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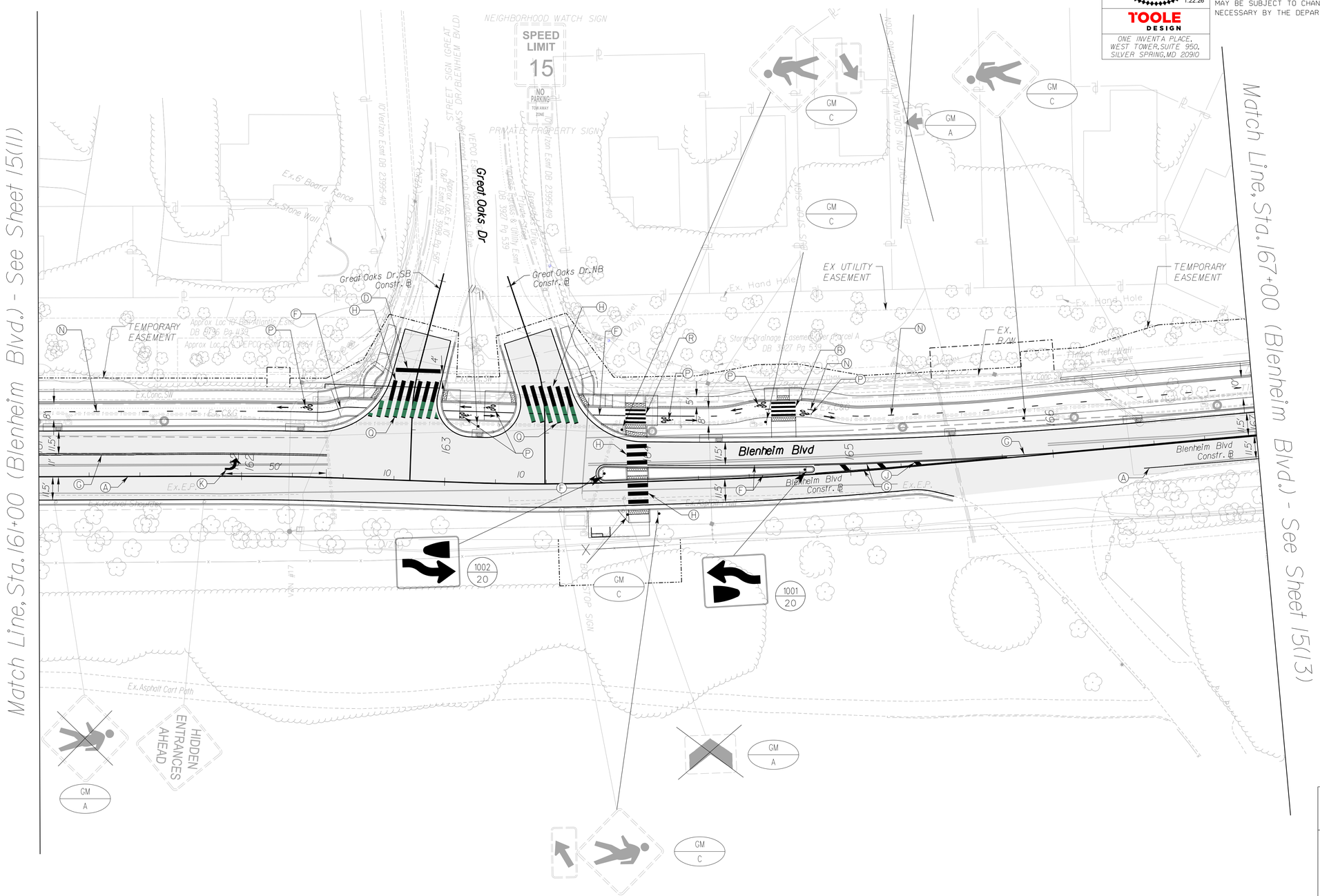

SCALE
0 25' 50'

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

Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
U000-151-R94	15(12)

FINAL PLANS

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

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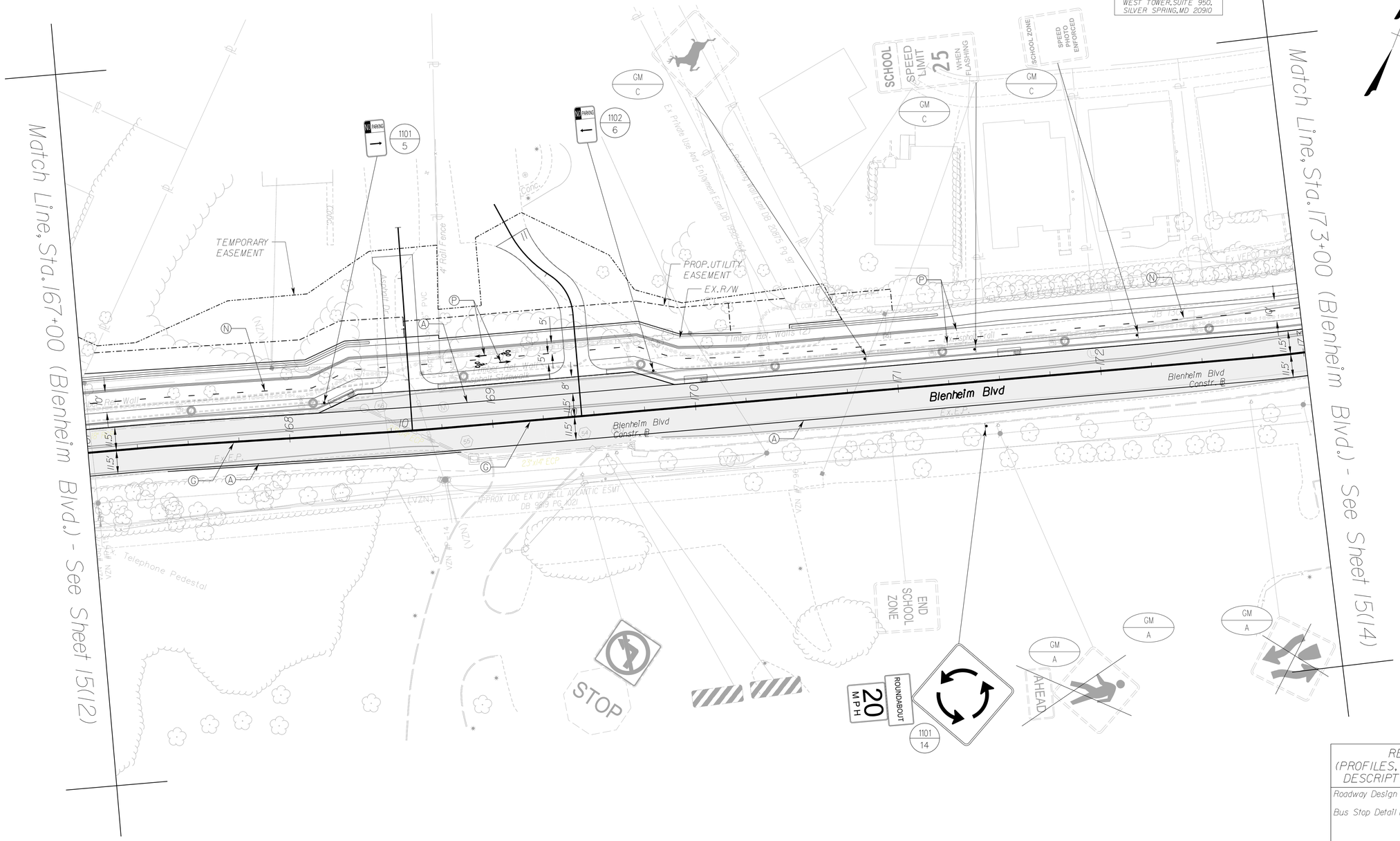

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Roadway Design Plans	3 - 14
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
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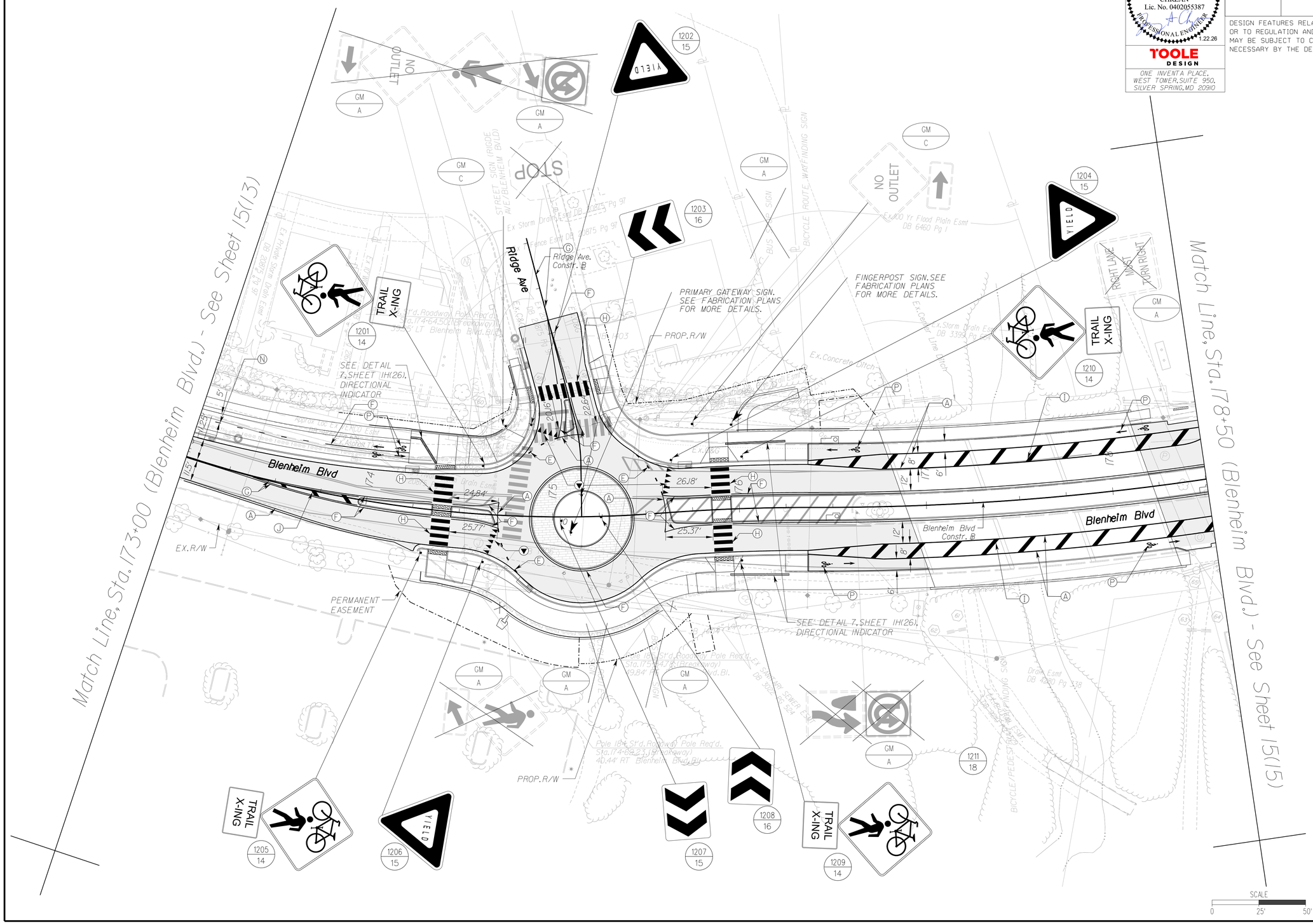

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(14)

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Roadway Design Plans	3 - 14
Pavement Marking & Signing Plan	15 - 15(16)
Bus Stop Detail Plan	1H(39) - 1H(47)

PROJECT	SHEET NO.
U000-151-R94	15(14)

FINAL PLANS

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Plotted By: ClaySublett

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	VA.	6228	U000-151-R94	15(15)

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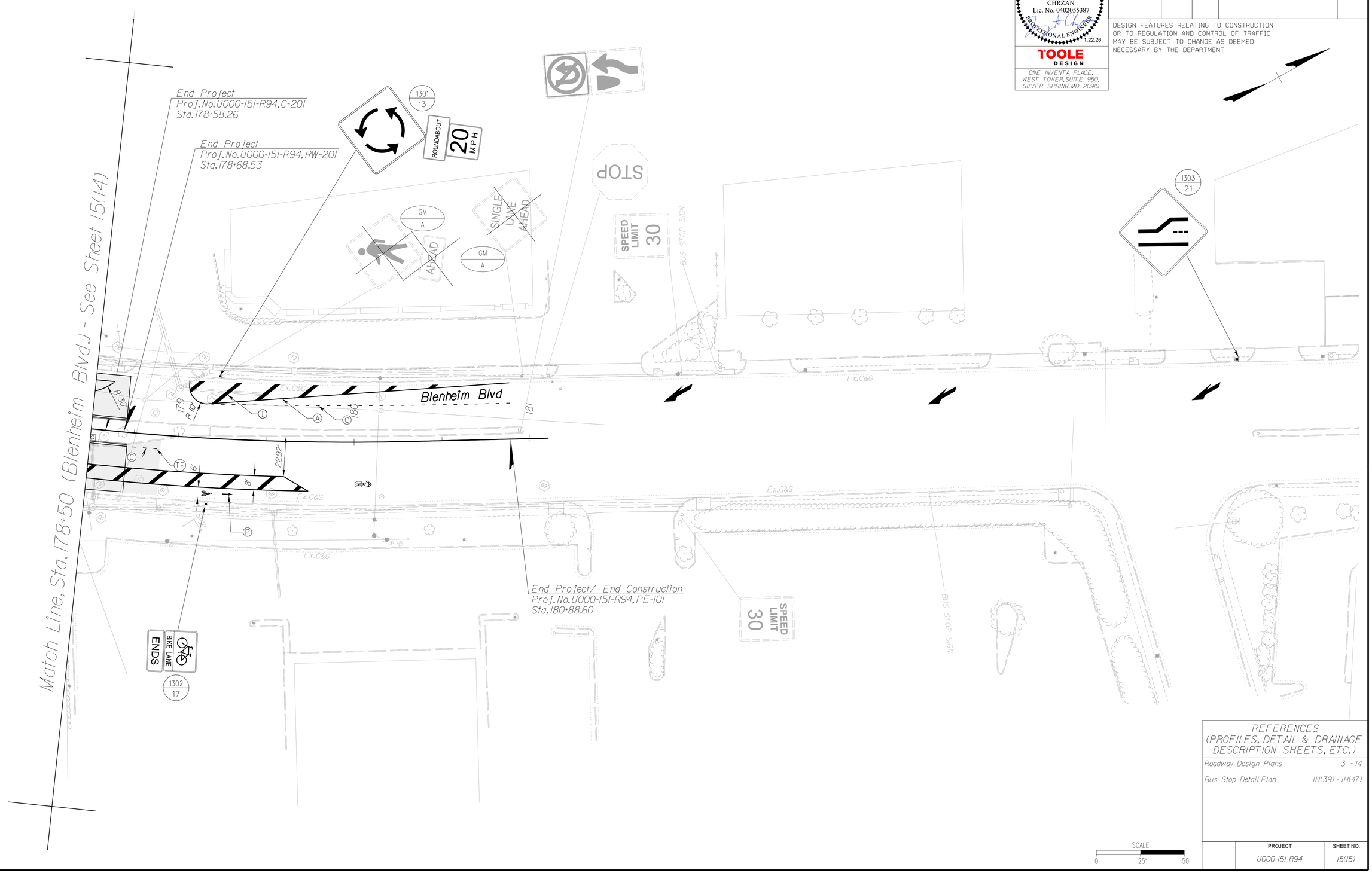

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PAVEMENT MARKING AND SIGNING PLAN: DETAILS

COMMONWEALTH OF VIRGINIA
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(16)

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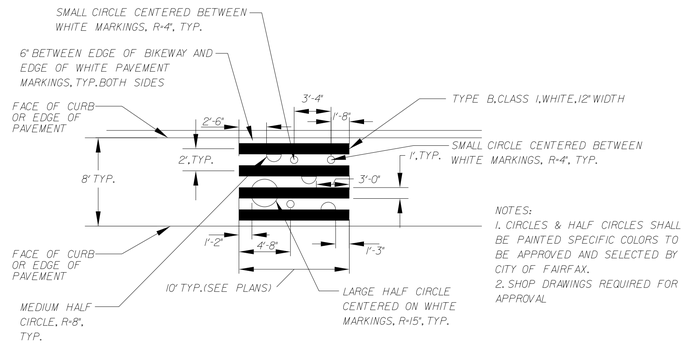
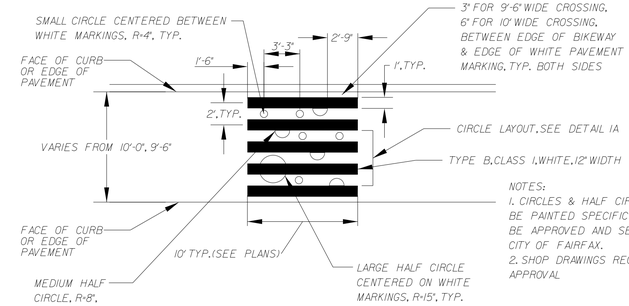


NOTES:
1. CIRCLES & HALF CIRCLES SHALL BE PAINTED SPECIFIC COLORS TO BE APPROVED AND SELECTED BY CITY OF FAIRFAX.
2. SHOP DRAWINGS REQUIRED FOR APPROVAL

DETAIL 1A: 8' WIDE PEDESTRIAN BIKEWAY CROSSING
N.T.S.



NOTES:
1. CIRCLES & HALF CIRCLES SHALL BE PAINTED SPECIFIC COLORS TO BE APPROVED AND SELECTED BY CITY OF FAIRFAX.
2. SHOP DRAWINGS REQUIRED FOR APPROVAL

DETAIL 1B: 9'-6" & 10' WIDE PEDESTRIAN BIKEWAY CROSSING
N.T.S.

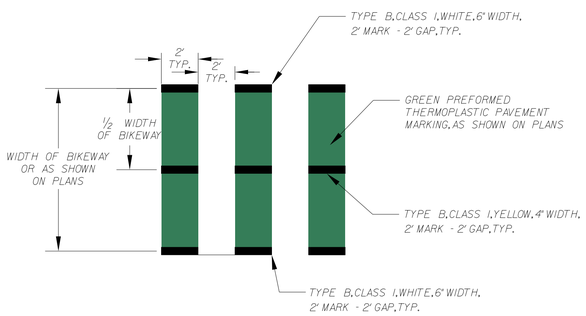
MOVEMENT, SEQUENCE AND TIMING DIAGRAM

SIGNALS	
1-2	Y (RRFB)
PEDESTRIAN*	16

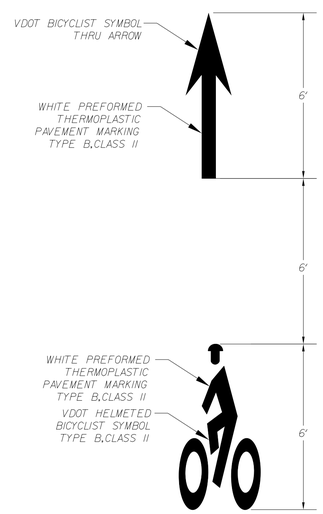
DETECTOR NOTES

1.* PUSH BUTTON DETECTORS 1 AND 2 ACTIVATE RRFB SIGNALS 1-2. THE SIGNALS SHALL REMAIN FLASHING FOR 16 SECONDS AFTER A DETECTOR HAS BEEN CALLED.

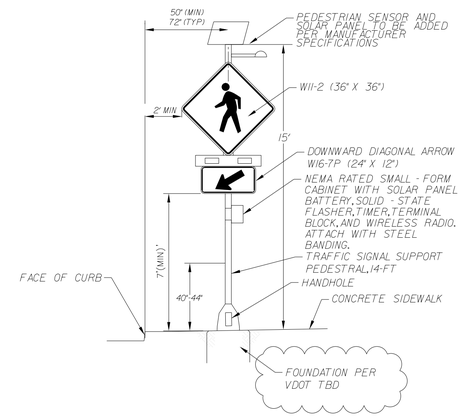
2. ADDITIONAL CALLS SHALL RESET FIXED FLASH TIME.



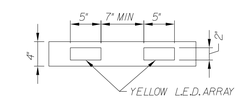
DETAIL 2: TWO-WAY BIKEWAY CROSSING
N.T.S.



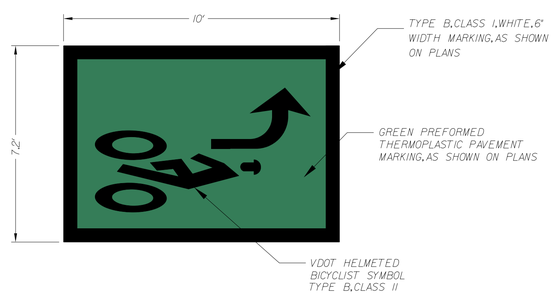
DETAIL 3: BICYCLE LANE SYMBOL
N.T.S.



DETAIL 4A: PEDESTAL MOUNTED RECTANGULAR RAPID FLASHING BEACON
N.T.S.



DETAIL 4B: SIGNAL HEAD (1 AND 2)
N.T.S.



DETAIL 5: BICYCLE TWO-STAGE TURN QUEUE BOX
N.T.S.

LOGO FOR INFORMATIONAL PURPOSES ONLY; TO BE COORDINATED WITH THE CITY OF FAIRFAX. INSTALLATION BY OTHERS

DETAIL 6: SCOOTER CORRAL
N.T.S.

PROJECT	SHEET NO.
U000-151-R94	15(16)

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	16

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Traffic Signal Index of Sheets, General Notes, & Legends

INDEX OF SHEETS

Sheet No.:	Sheet Description:
16(0)	Index of Sheets, General Notes & Legend
16(1)	Pedestrian Actuation Installation Details
16(2)	Not Used
16(3)	Traffic Signal Modification Plan - Blenheim Blvd & Layton Hall Dr

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM	PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)		
Pedestal Pole and Foundation (St'd. PF-2)		
Pedestal Pole and Foundation (St'd. PA-3)		
Traffic Signal Head w/ Backplate		
Traffic Signal Head w/o Backplate		
Pedestrian Signal Head		
Pedestrian Pushbutton & Sign	P.B.	P.B.
Traffic Signal Sign Mast Arm or Span Wire Mt'd.		
Traffic Signal Sign Pole Mounted		E
Emergency Vehicle Pre-emption (EVP) Sensor w/ Conf. Light		
Emergency Vehicle Pre-emption (EVP) Sensor w/o Conf. Light		
Video Detection Camera		
Junction Box (St'd. as noted on plans)	J	J
Signal Luminaire (250 W) and Arm		
Signal Luminaire (400 W) and Arm		
Loop Detector (Size as noted on plans)	6' x 20'	6' x 20'
Video Detection Zone (Size as noted on plans)	VDZ 6' x 20'	VDZ 6' x 20'
Conduit		

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Electrical Service Meter		SM	SM
Electrical Service Safety Switch (Disconnect)		SD	SD
Controller Cabinet	Ground Mounted	CC	CC
Controller Cabinet	Pole Mounted	CC	CC
Master Controller Cabinet	Ground Mounted	MC	MC
Master Controller Cabinet	Pole Mounted	MC	MC
Controller Cabinet & Foundation	Std. CF-1	CC 1	CC 1
Controller Cabinet & Foundation	Std. CF-3	CC 3	CC 3
Controller Cabinet & Foundation	Std. CF-4	CC 4	CC 4
Master Controller Cabinet & Foundation	Std. CF-1	MC 1	MC 1
Master Controller Cabinet & Foundation	Std. CF-3	MC 3	MC 3
Master Controller Cabinet & Foundation	Std. CF-4	MC 4	MC 4
Uninterruptible Power Supply Cabinet			UPS

LABELS

Signal Pole or Controller (A)	Proposed Signal Head (2)	Signal Phasing Ø2	Sign S-1
Existing Signal Pole or Controller (A)	Existing Signal Head (2)	Pedestrian Phasing P2	Video Detection Camera VDC-1
Cable and Conduit (A)	Proposed Pedestrian Signal Head (P2)		Emergency Preemption Detector EVP-1
Existing Cable and Conduit (A)	Existing Pedestrian Signal Head (P2)		
Junction Box (S3)			

GENERAL NOTES - TRAFFIC SIGNALS

1. All work shall be in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), the current edition of the VDOT Road and Bridge Specifications, the current edition of the VDOT Road and Bridge Standards, and all special provisions in effect at the time the signal plan is approved. The Contractor is to also perform all work in accordance with the 2016 Road and Bridge Standards and all City of Fairfax DPW requirements, as applicable.

2. Utilities shown on the plans are not guaranteed to be complete or accurate. The Contractor shall be responsible for ensuring that all utilities within the project limits are identified and located before beginning work. The Contractor shall contact Miss Utility of Virginia at 1-800-522-7001, 48 hours prior to any construction activities. Contractor shall coordinate with utility companies as to the location of existing and approved plans of future utility lines. Any disruption of any utility service is the responsibility of the Contractor.

3. Contractor shall not impact existing utilities when installing any component of the proposed signal. Any disruption to utility service shall be at the expense of the Contractor.

4. New LED traffic signal heads and overhead traffic signal signage shall be covered with a durable non-transparent cover upon installation. The Contractor shall maintain covers until the new traffic signal system is operational.

5. All unused wires in the signal heads shall be capped individually with crimp type caps.

6. The Contractor shall label all spare wires in the controller cabinet, in accordance with section 700.04(g) of the VDOT Road and Bridge Specifications.

7. (S) denotes cable to be shielded, (M) denotes metal conduit.

8. Trench excavation shall be in accordance with Standard EC1-1.

9. The City of Fairfax will provide all signal timings to the Contractor with 60 days notice provided to the City. The City and Contractor shall meet on site for all inputs prior to implementation at no additional cost to the project.

10. The Contractor shall be responsible for providing and maintaining electrical service to the controller at all times. The project shall be responsible for any costs associated with providing and maintaining electrical service to the traffic signal. The cost of providing and maintaining electrical and COMM service shall be incidental to the project and not paid for as a separate item.

11. Pedestrian signal head sections shall be cast aluminum.

12. No junction boxes shall be installed in paved shoulder, sidewalk, or multi-purpose trail.

13. Junction box covers shall have the letters "TRAF" cast in the top surface depression for all traffic signal related junction boxes containing cable with less than 50 volts. All other junction box covers shall have "ELEC" cast in the top surface depression.

14. All breakaway poles shall have breakaway fuses.

15. Dimensions used for locating equipment (such as signal head assemblies, signs, cameras, etc.) on mast arms are measured to the center of the symbols used to indicate the equipment.

16. A. Prior to construction and before purchase of any equipment required for signals, the Contractor is to provide the City of Fairfax with shop drawings/material specs of all required equipment. Contractor will also provide a list of product data for these items to the City of Fairfax to ensure that these items meet all current VDOT standards.

B. Foundation design shall be performed by a structural engineer pursuant to VDOT Road and Bridge Standards. Foundation design shall be approved by VDOT prior to installation.

17. All Ped. Push buttons shall be mounted in accordance with Standard PA-2. Pedestrian St'd PA-2 shall be oriented to face the crosswalk to which it applies and be visible to a pedestrian standing at the beginning of the crosswalk on each corner. All push buttons shall be ADA type and meet the City of Fairfax/PROWAG requirements.

18. All Pedestrian signals shall be in accordance with Standard SP-8 and shall be black in color at no additional cost the project.

19. The project shall be responsible for providing and maintaining communication to the traffic signal controller at all times. The project is responsible for ALL COSTS associated with providing communication to the traffic signal. The project shall be responsible for coordinating the location and the installation of the communication circuit conduit(s) and equipment to the traffic signal controller cabinet for the designated communication platform.

20. NOT USED

21. NOT USED

22. No traffic signal shall be placed into operation until the traffic signal communication requirements are complete and operational.

23. Maintenance and repair of the traffic signal, once modifications are started, is the sole responsibility of the Contractor until the traffic signal is accepted into the VDOT traffic signal system.

24. Included in the cost of all conduits shall be the cost of equipment grounding conductor (#6 AWG EGC).

25. Pavement Markings shall be modified to reflect the markings shown on this plan when the signal is installed.

26. The Contractor shall be responsible for maintaining detection on all approaches of the intersection at all times and throughout all phases of construction. At no additional cost to the project.

27. The VDOT Engineer, prior to construction, shall verify location of controller cabinet.

28. Pedestrian pole and foundations shall conform to Standard PF-2. Pedestal Pole (PF-2) shall be 12 ft. in height for pedestrian pedestal poles. Pedestal poles for roadway signal heads shall follow the heights shown on the plans. Pedestal pole heads shall be mounted in accordance with St'd SMB-3. All pedestrian heads and poles shall be black in color.

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL
INDEX OF SHEETS, GENERAL NOTES & LEGEND(S)
CITY OF FAIRFAX

PROJECT	SHEET NO.
U000-151-R94	16

1/26/2026

FINAL PLANS

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)

Pedestrian Actuation Installation Details

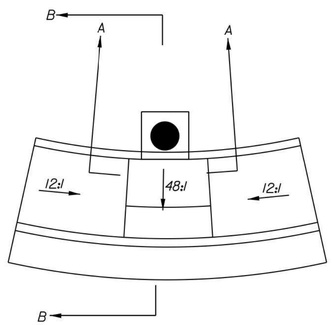
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:34:02 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

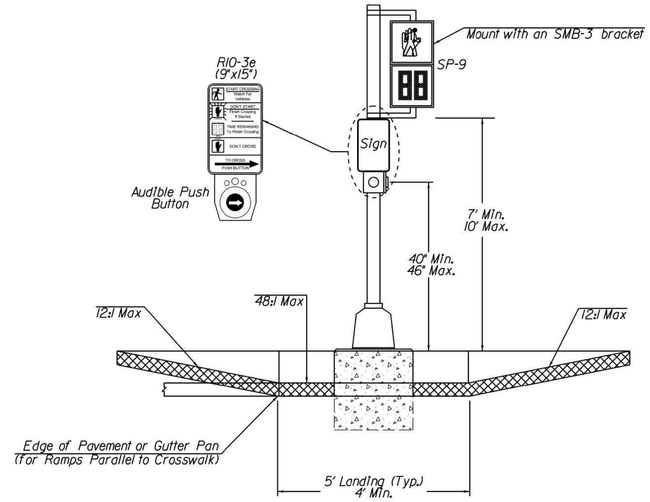
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	16(1)

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

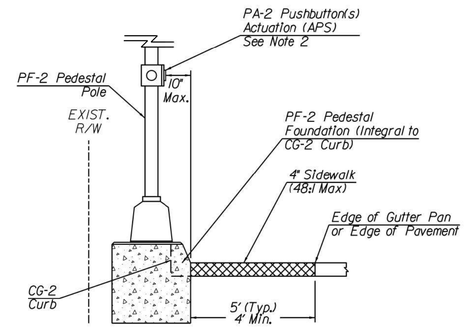
PF-2



PF-2 PLAN VIEW DETAIL

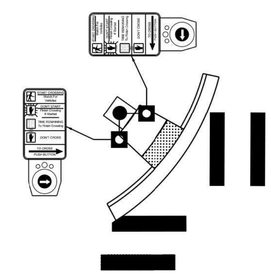


SECTION A-A
PF-2 FOUNDATION INSTALLATION
BACK OF CURB - OUTSIDE SIDEWALK



SECTION B-B
PF-2 FOUNDATION INSTALLATION
BACK OF CURB - OUTSIDE SIDEWALK

PERPEDICULAR PUSHBUTTONS ON PF-2 PEDESTAL POLE FOR SINGLE RAMP SERVING TWO CROSSWALKS



Notes:

1.) Signs and pushbuttons shall be parallel to the associated crosswalk.
2.) Speech Message example: "Broad Street. Walk sign is on to cross Broad Street."
3.) Pushbutton mounting extenders may be used if the reach for the pushbutton is more than 10" behind the edge of curb.

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL
PEDESTRIAN ACTUATION
INSTALLATION DETAILS
CITY OF FAIRFAX

PROJECT	SHEET NO.
U000-151-R94	16(1)

FINAL PLANS

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)

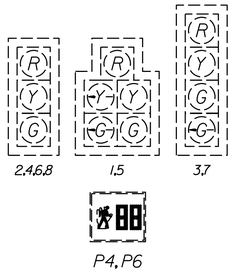
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	16(3)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:34:19 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

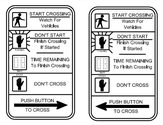
Existing Signals



Proposed Signals

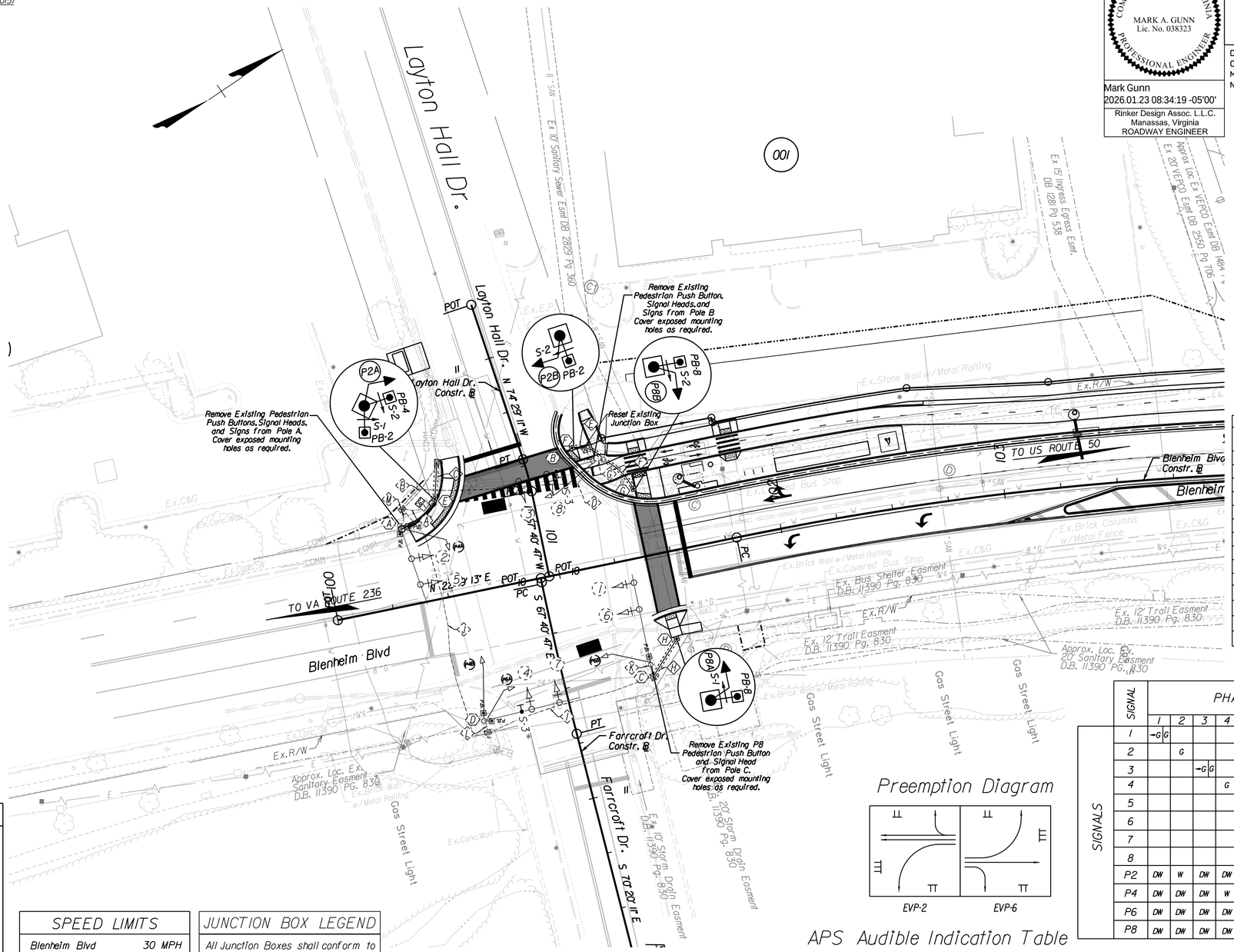
P2, P8

Proposed Signs



S-1 R10-3eR 9"x15" S-2 R10-3eL 9"x15"

S-3 R10-11 30"x36"



Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

- (A) EXISTING MAST ARM POLE
- (B) EXISTING MAST ARM POLE New Sign Location: 16.5'
- (C) EXISTING MAST ARM POLE
- (D) EXISTING MAST ARM POLE New Sign Location: 17.25'
- (E) PEDESTAL POLE (PF-2), 10' 43.7' LT. of Blenheim Blvd Constr. PB Sta. 100+52.8
- (F) PEDESTAL POLE (PF-2), 10' 23.2' RT. of Layton Hall Dr Constr. PB Sta. 10+51.0
- (G) PEDESTAL POLE (PF-2), 10' 30.3' LT. of Blenheim Blvd Constr. PB Sta. 101+39.7
- (H) PEDESTAL POLE (PF-2), 10' 38.4' RT. of Blenheim Blvd Constr. PB Sta. 101+44.9

Initial Timing Chart

BOLD = NEW

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LEFT	NB THRU	WB LEFT	EB THRU	NB LEFT	SB THRU	EB LEFT	WB THRU
PHASE ON		X		X		X		
PHASE OFF	X		X		X		X	X
INTERVAL	PHASE TIMINGS							
MIN GR	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PASSAGE		3.0		3.0		5.0		3.0
AMBER	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
RED	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MAX 1								
MAX 2								
MIN GAP		3.0		3.0		5.0		3.0
LEADING PED WALK		0.0		0.0		0.0		0.0
PED WALK		7.0		7.0		7.0		7.0
PED CLEARANCE		11.0		11.0		11.0		11.0
MODE		MAX RECALL		NON-LOCK		MAX RECALL		NON-LOCK

CABLE AND CONDUIT LEGEND

- (A) Existing Conduit
  Add New 5-14/2c, 5-14/7c
- (B) Existing Conduit
  Add New 2-14/2c, 2-14/7c
- (C) 3" Conduit - 2-14/2c, 2-14/7c, 1-EGC(*)
- (D) Existing Bored Conduit
  Add New 2-14/2c, 2-14/7c
- (E) 3" Conduit - 1-14/2c, 1-14/7c, 1-EGC(*)
- (F) 3" Conduit - 1-14/2c, 1-14/7c, 1-EGC(*)
- (G) Existing Conduit
- (H) 3" Conduit - 1-14/2c, 1-14/7c, 1-EGC(*)
- (I) Existing Bored Conduit
  Add New 1-14/2c, 1-14/7c
- (J) Existing Bored Conduit
  Add New 1-14/2c, 1-14/7c
- (K) Existing Conduit
- (L) Existing Conduit
- (M) Existing Conduit

SPEED LIMITS

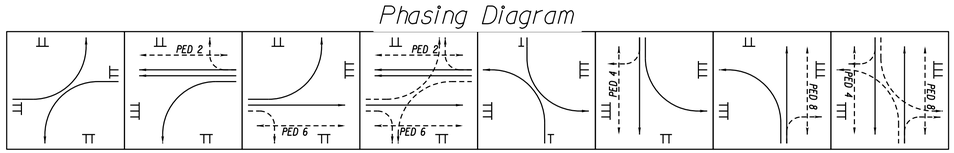
Blenheim Blvd	30 MPH
Layton Hall Dr	25 MPH
Farrcroft Dr	25 MPH

JUNCTION BOX LEGEND

All Junction Boxes shall conform to Std. JB-S2 unless otherwise noted on the plans.

(S3) Denotes Std. JB-S3

Phasing Diagram



Ø1-5 Ø2-5 Ø1-6 Ø2-6 Ø3-7 Ø4-7 Ø3-8 Ø4-8

Preemption Diagram

EVP-2 EVP-6

APS Audible Indication Table

Pushbutton (Quadrant)	Speech PB Information Message	Audible Walk Indication
P2 (NW) P2 (SW)	Wait to Cross Layton Hall at Blenheim	Layton Hall, Walk Sign on to Cross Layton Hall
P8 (NE) P8 (NW)	Wait to Cross Blenheim at Layton Hall	Blenheim, Walk Sign on to Cross Blenheim

Note: All other tones and beaconing associated with APS shall be in accordance with the special provisions in the contract documents.

Note: Table is for modified movements, only and does not include existing pushbuttons to remain.

SIGNALS

SIGNAL	PHASES 1	2	3	4	5	6	7	8	COMBINATIONS 1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	FLASH
1	→G G								→G	→G		G					
2		G									G	G					Y
3			→G G										→G	→G		G	
4					G												Y
5					→G G				→G		→G	G					
6						G				G		G					Y
7							→G G						→G		→G	G	
8								G						G		G	Y
P2	DW	W	DW	DW	DW	DW	DW	DW	DW	DW	W	W	DW	DW	DW	DW	BLANK
P4	DW	DW	DW	W	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	W	BLANK
P6	DW	DW	DW	DW	DW	W	DW	DW	DW	W	DW	W	DW	DW	DW	DW	BLANK
P8	DW	DW	DW	DW	DW	DW	DW	W	DW	DW	DW	DW	DW	W	DW	W	BLANK

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

CITY OF FAIRFAX

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	16(3)

FINAL PLANS

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)

SEGMENTED BLOCK RETAINING WALL DETAILS

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:14:54 -05'00'

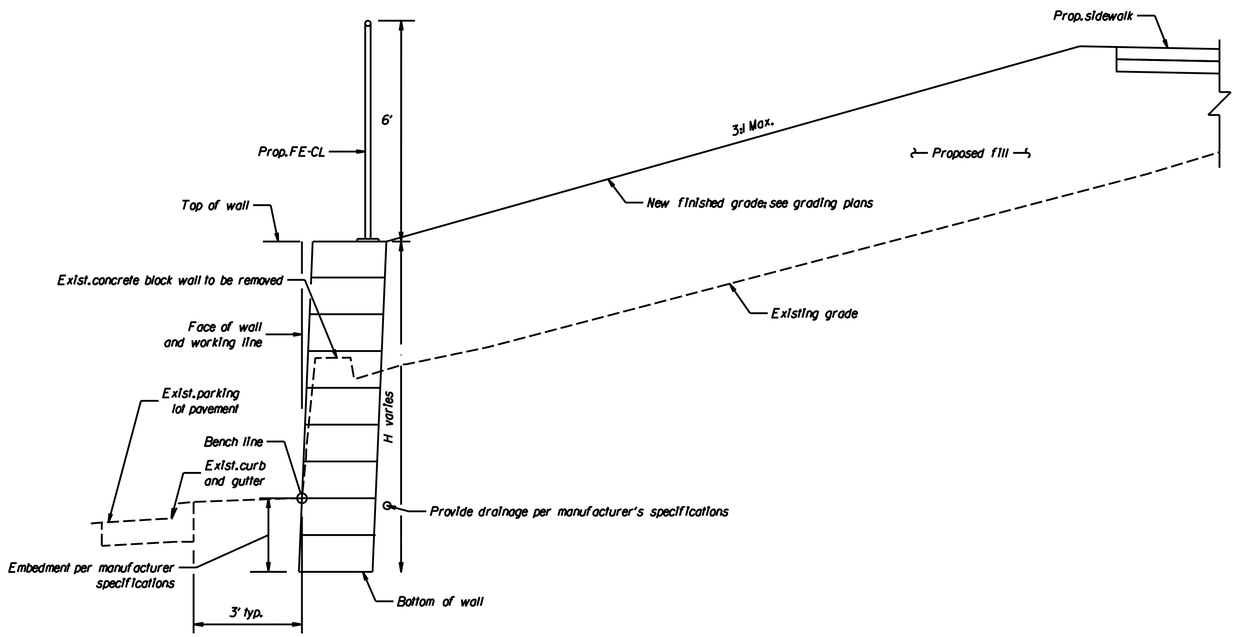
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17A

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

NOTES:

1. Contractor shall coordinate with City to provide a segmented block retaining wall from VDOT's Approved Retaining Wall Systems list. Contractor shall submit details and shop drawings to City for approval prior to ordering any materials.



A 17(4) 17A SECTION

TYPICAL SECTION AT RW-C

Details such as aggregates, waterstop and other appurtenances are not shown for clarity.

PROJECT	SHEET NO.
U000-151-R94	17A

12/10/2025

FINAL PLANS

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)

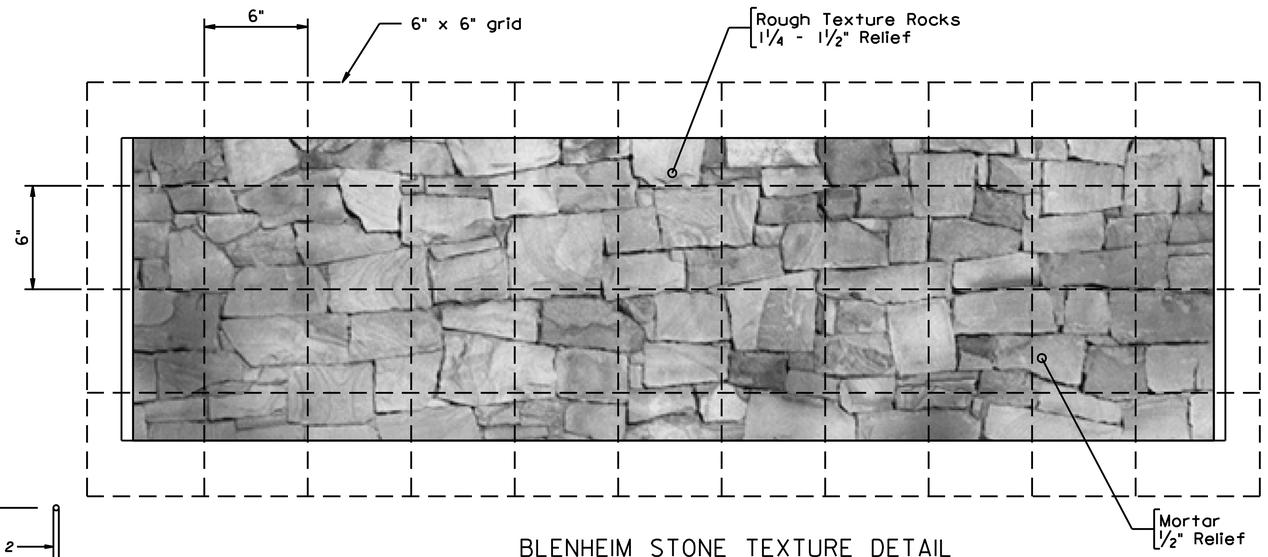
GRAVITY WALL DETAILS (SHEET 2 OF 2)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17B

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:34:36 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

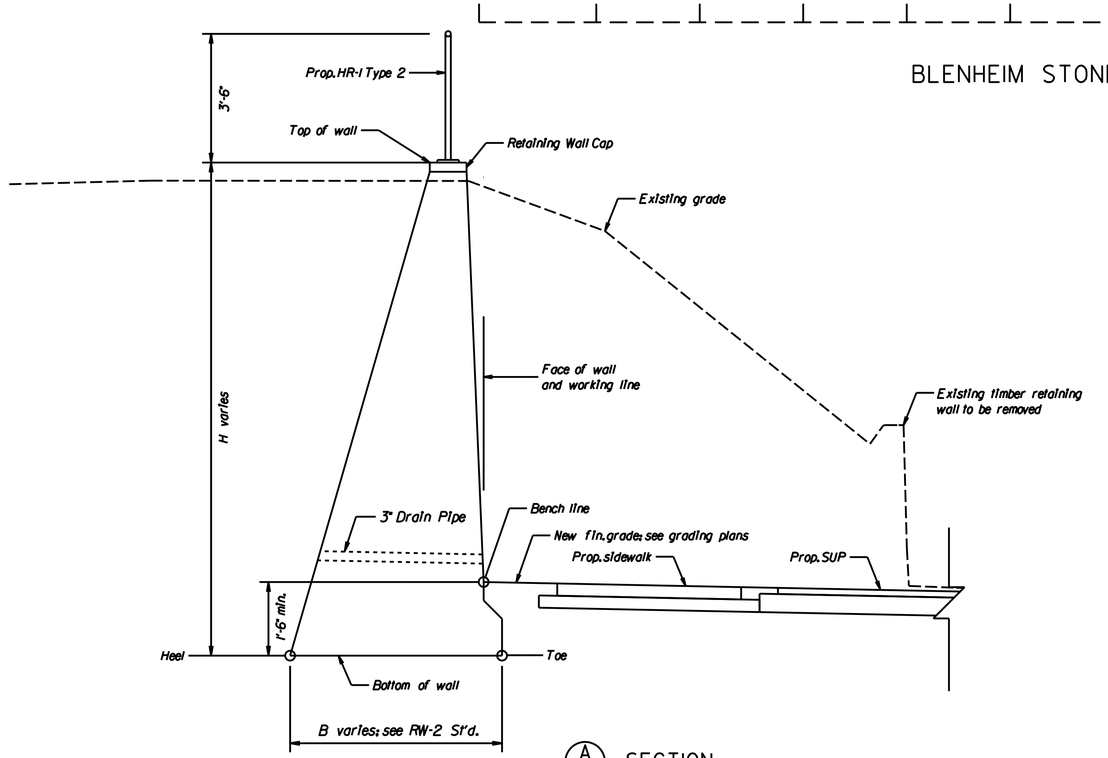
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



BLENHEIM STONE TEXTURE DETAIL

NOTES:

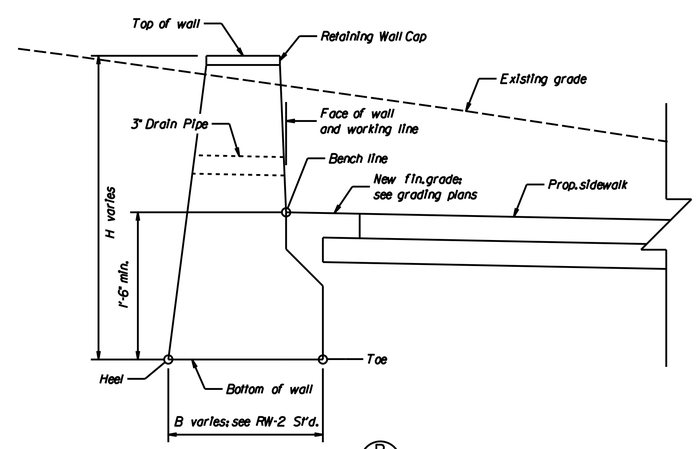
1. See VDOT Std. RW-2 for additional details not shown.
2. The faces of RW-2 retaining walls shall be stamped with the Blenheim stone texture below.



A 17(5) 17B SECTION

TYPICAL SECTION AT RW-D

Details such as aggregates, waterstop and other appurtenances are not shown for clarity.



B 17(6) 17B SECTION

TYPICAL SECTION AT RW-E

Details such as aggregates, waterstop and other appurtenances are not shown for clarity.

PROJECT	SHEET NO.
U000-151-R94	17B

1/21/2026

FINAL PLANS

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)

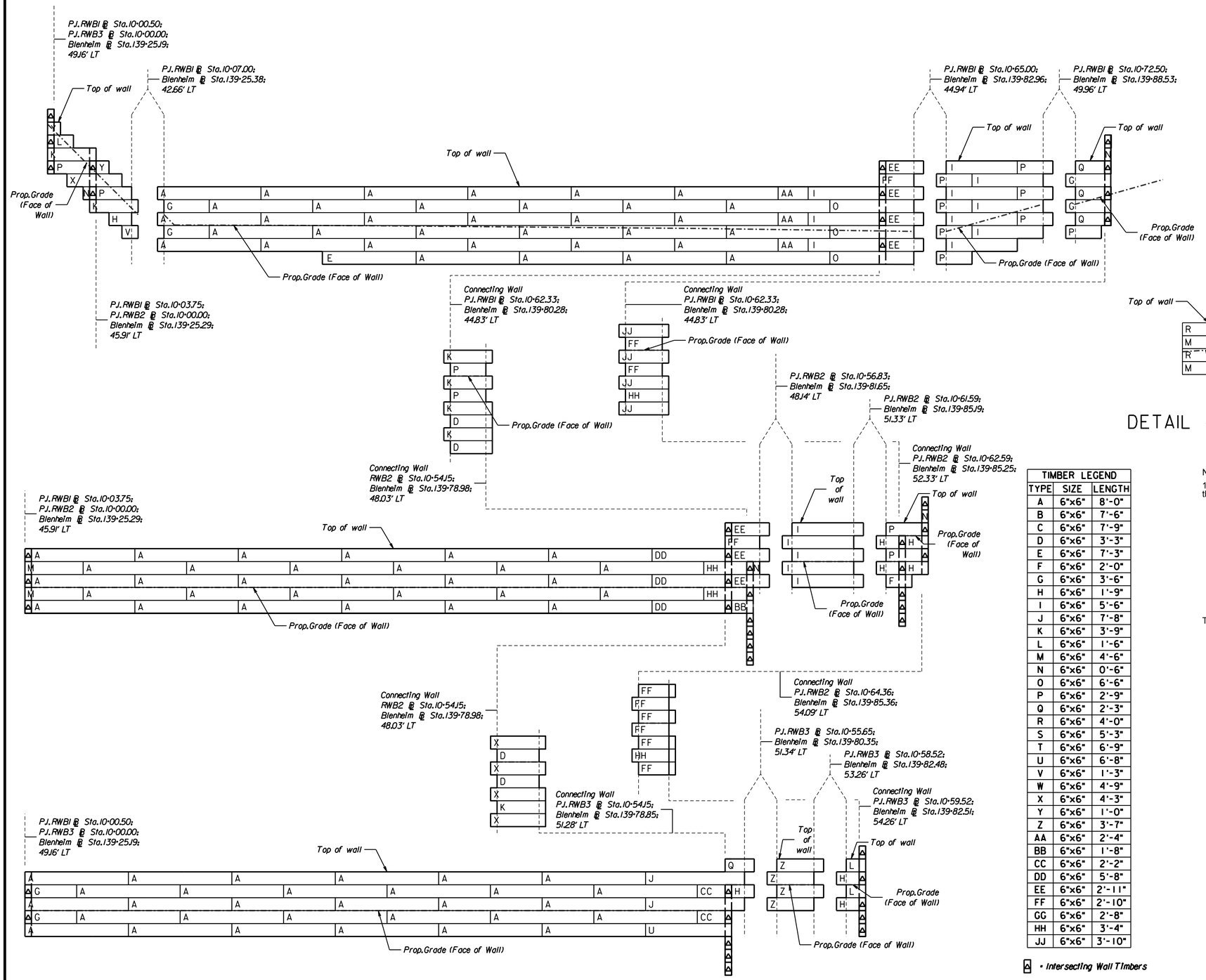
TIMBER WALL GENERAL NOTES AND DETAILS

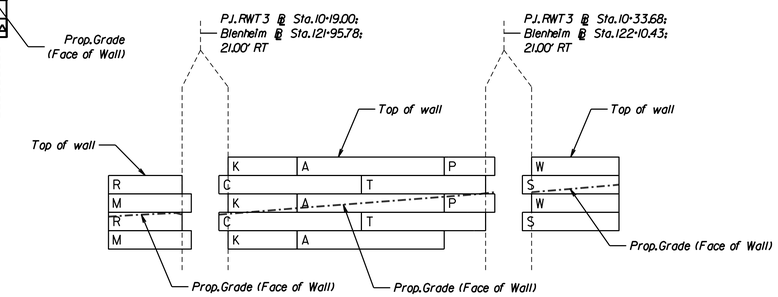
COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:15:55 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17(1)

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





DETAIL 4 - RECOMMENDED TIMBER LAYOUT. RWT3

TIMBER LEGEND		
TYPE	SIZE	LENGTH
A	6"x6"	8'-0"
B	6"x6"	7'-6"
C	6"x6"	7'-9"
D	6"x6"	3'-3"
E	6"x6"	7'-3"
F	6"x6"	2'-0"
G	6"x6"	3'-6"
H	6"x6"	1'-9"
I	6"x6"	5'-6"
J	6"x6"	7'-8"
K	6"x6"	3'-9"
L	6"x6"	1'-6"
M	6"x6"	4'-6"
N	6"x6"	0'-6"
O	6"x6"	6'-6"
P	6"x6"	2'-9"
Q	6"x6"	2'-3"
R	6"x6"	4'-0"
S	6"x6"	5'-3"
T	6"x6"	6'-9"
U	6"x6"	6'-8"
V	6"x6"	1'-3"
W	6"x6"	4'-9"
X	6"x6"	4'-3"
Y	6"x6"	1'-0"
Z	6"x6"	3'-7"
AA	6"x6"	2'-4"
BB	6"x6"	1'-8"
CC	6"x6"	2'-2"
DD	6"x6"	5'-8"
EE	6"x6"	2'-11"
FF	6"x6"	2'-10"
GG	6"x6"	2'-8"
HH	6"x6"	3'-4"
JJ	6"x6"	3'-10"

△ = Intersecting Wall Timbers

Notes:

1. Timber retaining walls shall be constructed in accordance with the following:

   * Lumber shall be 6"x6", southern pine, grade #2 or better and preservative-treated in accordance with American Wood Preservers' Association standards for ground contact.

   * All spikes shall be 60d or equivalent, hot-dipped galvanized or stainless steel and driven in pre-drilled holes. Spikes shall be of sufficient length to penetrate the base member a minimum of 2 inches.

Timber Wall Construction:

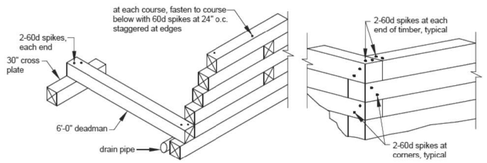


FIGURE 2: TYPICAL FASTENERS FOR TIMBER RETAINING WALLS

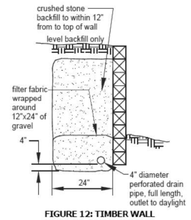


FIGURE 12: TIMBER WALL BACKFILL AND DRAINAGE

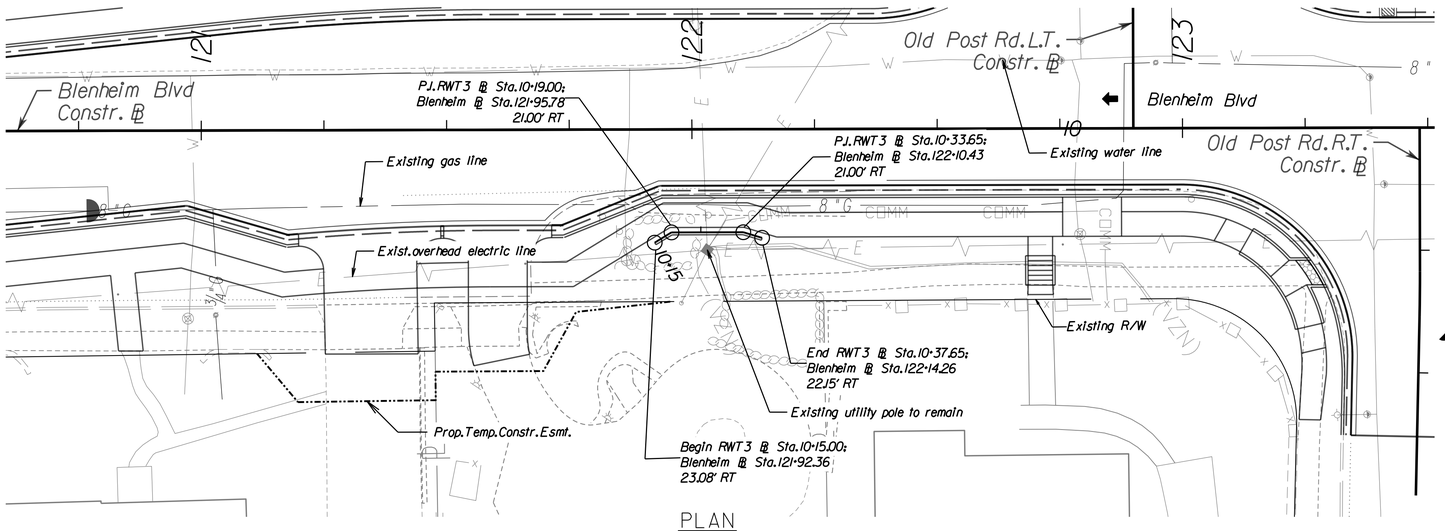
PROJECT	SHEET NO.
U000-151-R94	17(1)

12/10/2025

FINAL PLANS

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)

RW-T3 (TIMBER WALL) - PLAN AND PROFILE



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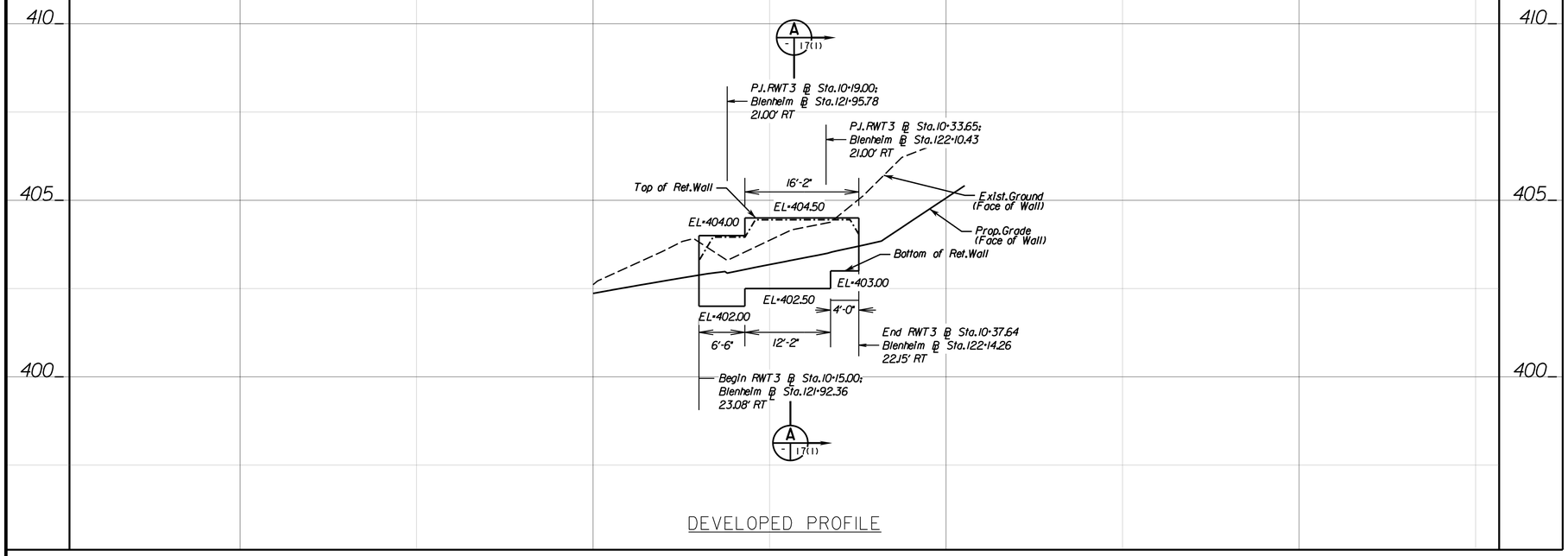


DEVELOPED PROFILE

MARK A. GUNN
Lic. No. 038323
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:16:21 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17(2)

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

NOTES:

1. Retaining wall to be maintained by City of Fairfax.
2. See Sheet 2A(8) for geotechnical recommendations.
1. Retaining wall to be maintained by City of Fairfax.

TABLE OF ELEVATIONS

BLENHEIM BL STATION	WALL STATION	TOP OF WALL	EX. GROUND (FACE OF WALL)	PROP. GRADE (FACE OF WALL)	BOTTOM OF WALL
121+92.36'	10+15.00'	404.00'	403.82'	402.88'	402.00'
121+95.78'	10+19.00'	404.00'	403.30'	402.94'	402.00'
122+10.43'	10+33.65'	404.50'	404.36'	403.48'	402.50'
122+14.26'	10+37.64'	404.50'	405.03'	403.70'	403.00'

SCALE 0 15' 30' 0 1.5' 3'

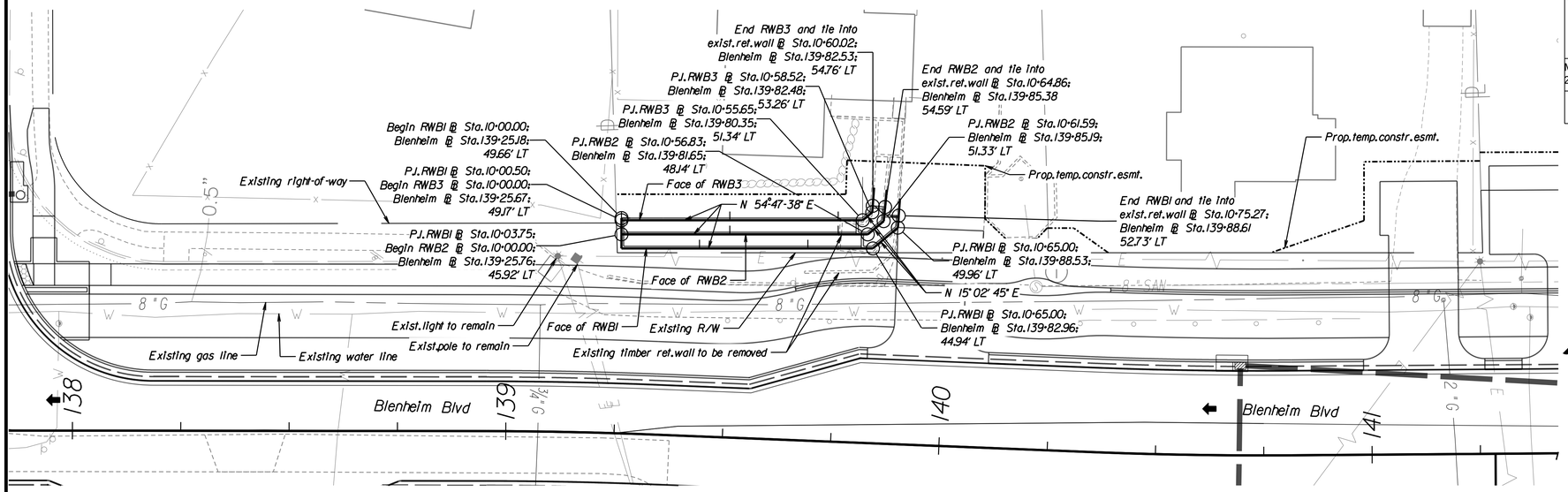
PROJECT	SHEET NO.
U000-151-R94	17(2)

12/11/2025

FINAL PLANS

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)

RW-B1/2/3 (TIMBER WALL) PLAN & PROFILE



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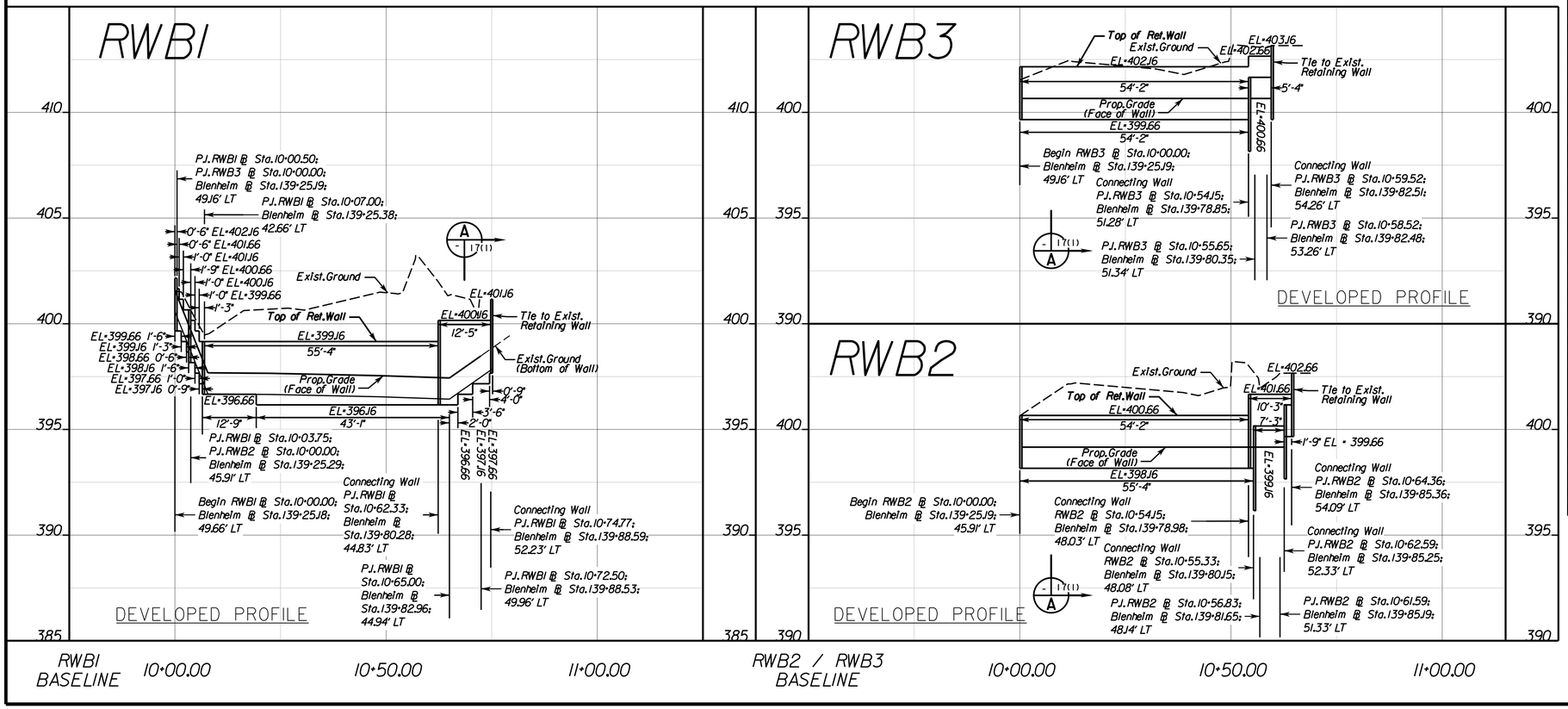


REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17(3)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:34:52 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

NOTES:

1. Retaining wall to be maintained by property owner.
2. See Sheet 2A(8) for geotechnical recommendations.
3. See Sheet 17(1) for additional details.

TABLE OF ELEVATIONS

BLENHEIM BL STATION	WALL STATION	TOP OF WALL	EX. GROUND (FACE OF WALL)	PROP. GRADE (FACE OF WALL)	BOTTOM OF WALL
RWB1					
139+25.18	10+00.00	402.16'	401.57'	401.57'	399.66'
139+25.19	10+00.50	401.66'	401.54'	401.33'	399.66'
139+25.21	10+01.00	401.16'	401.52'	401.08'	399.66'
139+25.22	10+01.50	401.16'	401.50'	400.83'	399.16'
139+25.23	10+02.00	400.66'	401.32'	400.58'	399.16'
139+25.26	10+02.75	400.66'	401.03'	400.20'	398.66'
139+25.27	10+03.25	400.66'	400.84'	399.95'	398.16'
139+25.29	10+03.75	400.16'	400.64'	399.70'	398.16'
139+25.32	10+04.75	399.66'	400.26'	399.20'	397.66'
139+25.35	10+05.75	399.16'	399.91'	398.70'	397.16'
139+25.37	10+06.50	399.16'	399.64'	398.33'	396.66'
139+25.38	10+07.00	399.16'	399.47'	398.08'	396.66'
139+37.24	10+19.25	399.16'	400.66'	397.66'	396.16'
139+80.28	10+62.33	400.16'	401.99'	397.45'	396.16'
139+82.96	10+65.00	400.16'	401.35'	397.43'	396.16'
139+84.44	10+67.00	400.16'	401.30'	397.71'	396.66'
139+87.04	10+70.50	400.16'	400.90'	398.20'	397.16'
139+88.53	10+72.50	400.16'	398.49'	--	397.16'
139+88.58	10+74.50	400.16'	398.77'	--	397.66'
139+88.59	10+74.77	401.16'	398.80'	--	397.66'
RWB2					
139+25.19	10+00.00	400.66'	400.64'	399.16'	398.16'
139+78.98	10+54.15	401.66'	403.02'	399.16'	398.16'
139+80.15	10+55.33	401.66'	402.72'	400.16'	399.16'
139+81.65	10+56.83	401.66'	401.95'	400.16'	399.16'
139+85.19	10+61.59	401.66'	402.66'	400.16'	399.16'
139+85.25	10+62.59	401.66'	402.66'	401.16'	399.66'
139+85.36	10+64.36	402.66'	402.66'	401.16'	399.66'
RWB3					
139+25.19	10+00.00	399.66'	401.54'	400.66'	402.16'
139+78.85	10+54.15	400.66'	403.13'	401.66'	402.66'
139+80.35	10+55.65	400.66'	403.10'	401.66'	402.66'
139+82.48	10+58.52	400.66'	403.06'	401.66'	402.66'
139+82.51	10+59.52	400.66'	403.16'	401.66'	403.16'

SCALE
0 15' 30'
0 1.5' 3'

PROJECT	SHEET NO.
U000-151-R94	17(3)

1/21/2026

FINAL PLANS

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)

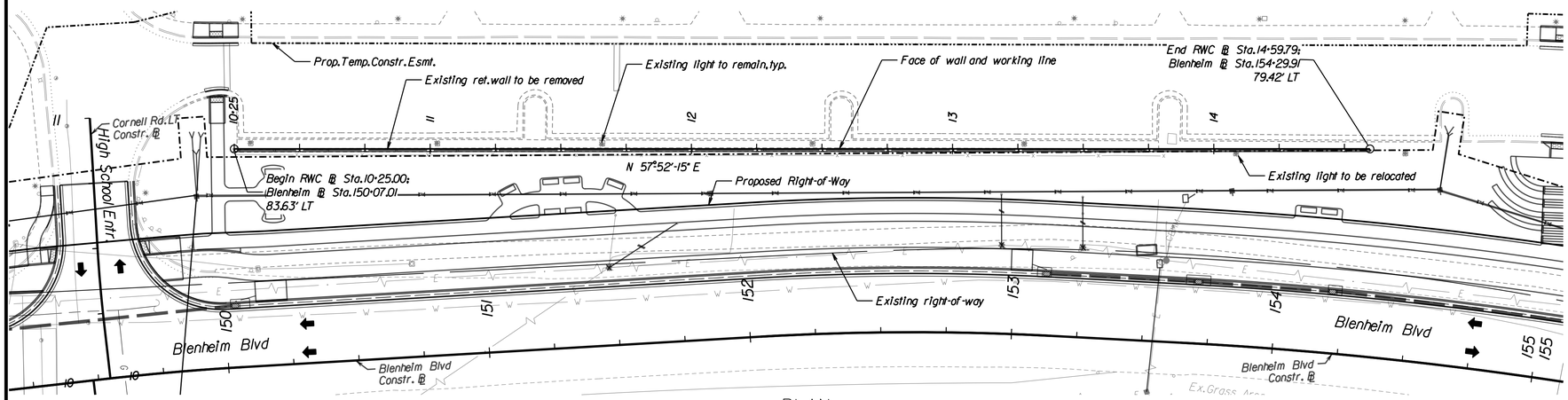
RW-C (SEGMENTED BLOCK WALL) - PLAN AND PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

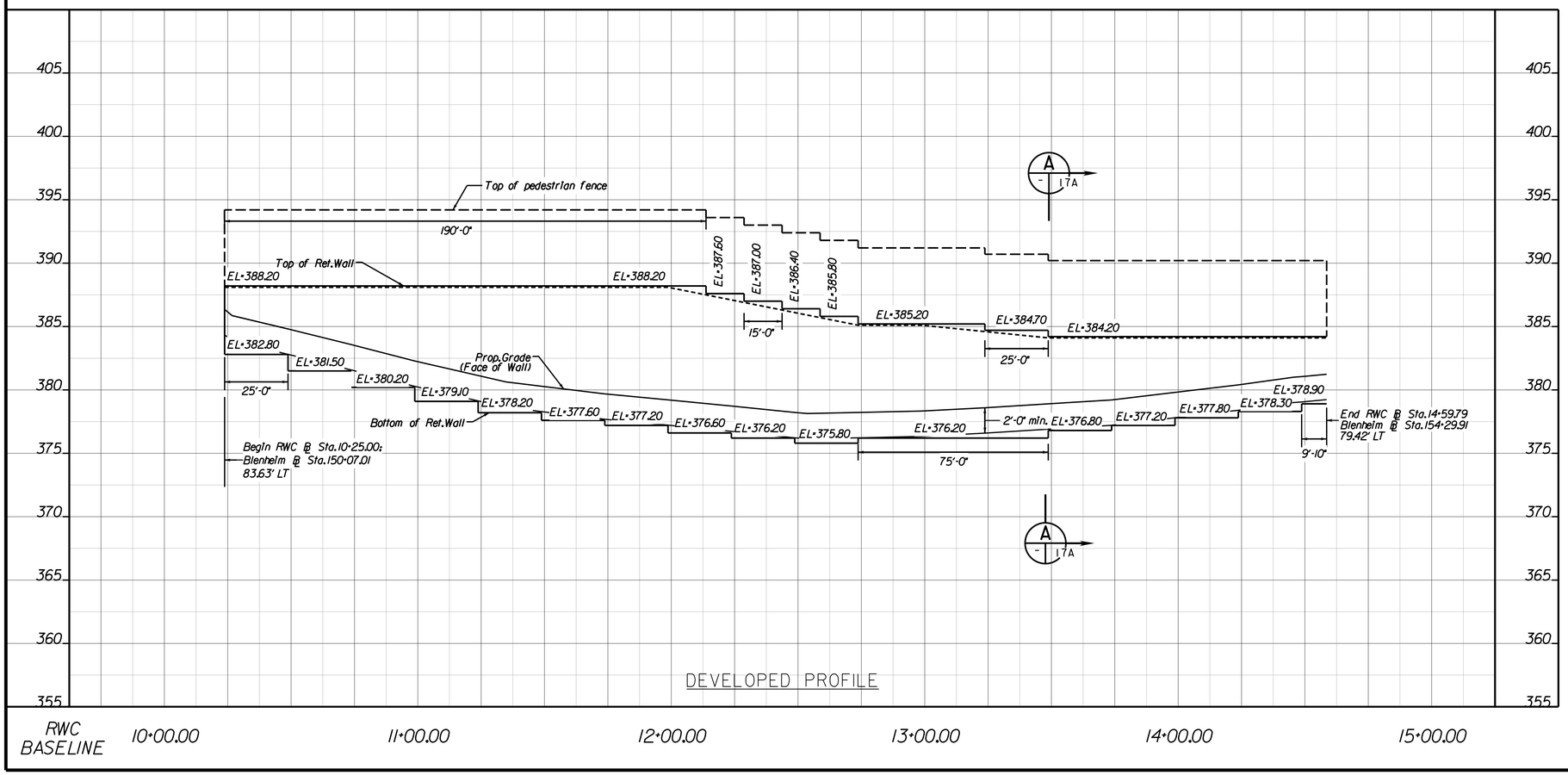
Mark Gunn
2026.01.23 08:35:09 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17(4)

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



PLAN



DEVELOPED PROFILE

NOTES:

1. Retaining wall to be maintained by property owner.
2. See Sheet 2A(8) for geotechnical recommendations.
3. Wall to be stamped with drystack texture shown on 17(A).
4. See sheet 17(A) for additional details.

TABLE OF ELEVATIONS

BLENHEIM BL STATION	WALL STATION	TOP OF WALL	PROP. GRADE (FACE OF WALL)	BOTTOM OF WALL
150+07.01	10+25.00	388.20'	386.36'	382.80'
150+31.97	10+50.00	388.20'	384.81'	381.50'
150+56.93	10+75.00	388.20'	383.58'	380.20'
150+81.88	11+00.00	388.20'	382.28'	379.10'
151+06.84	11+25.00	388.20'	381.14'	387.20'
151+31.80	11+50.00	388.20'	380.29'	377.60'
151+56.75	11+75.00	388.20'	379.68'	377.20'
151+81.71	12+00.00	388.20'	379.22'	376.60'
151+96.68	12+15.00	387.60'	378.93'	376.60'
152+06.48	12+25.00	387.60'	378.73'	376.20'
152+11.13	12+30.00	387.00'	378.63'	376.20'
152+25.12	12+45.00	386.40'	378.32'	376.20'
152+29.79	12+50.00	386.40'	378.22'	375.80'
152+39.12	12+60.00	385.80'	378.16'	375.80'
152+53.14	12+75.00	385.20'	378.22'	376.20'
152+99.84	13+25.00	384.70'	378.59'	376.20'
153+23.71	13+50.00	384.20'	378.90'	376.80'
153+48.67	13+75.00	384.20'	379.21'	377.20'
153+73.21	14+00.00	384.20'	379.80'	377.80'
153+96.96	14+25.00	384.20'	380.40'	378.30'
154+20.65	14+50.00	384.20'	381.05'	378.90'
154+29.91	14+59.79	384.20'	381.24'	378.90'

SCALE
0 25' 50'
0 2.5' 5'

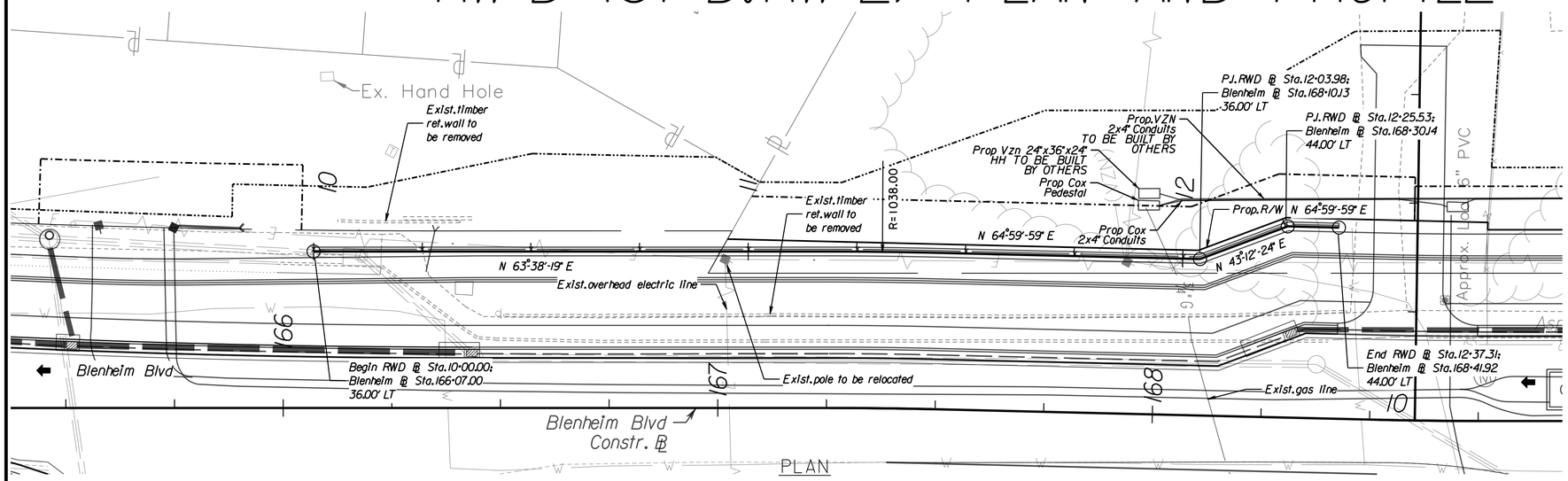
PROJECT	SHEET NO.
U000-151-R94	17(4)

1/21/2026

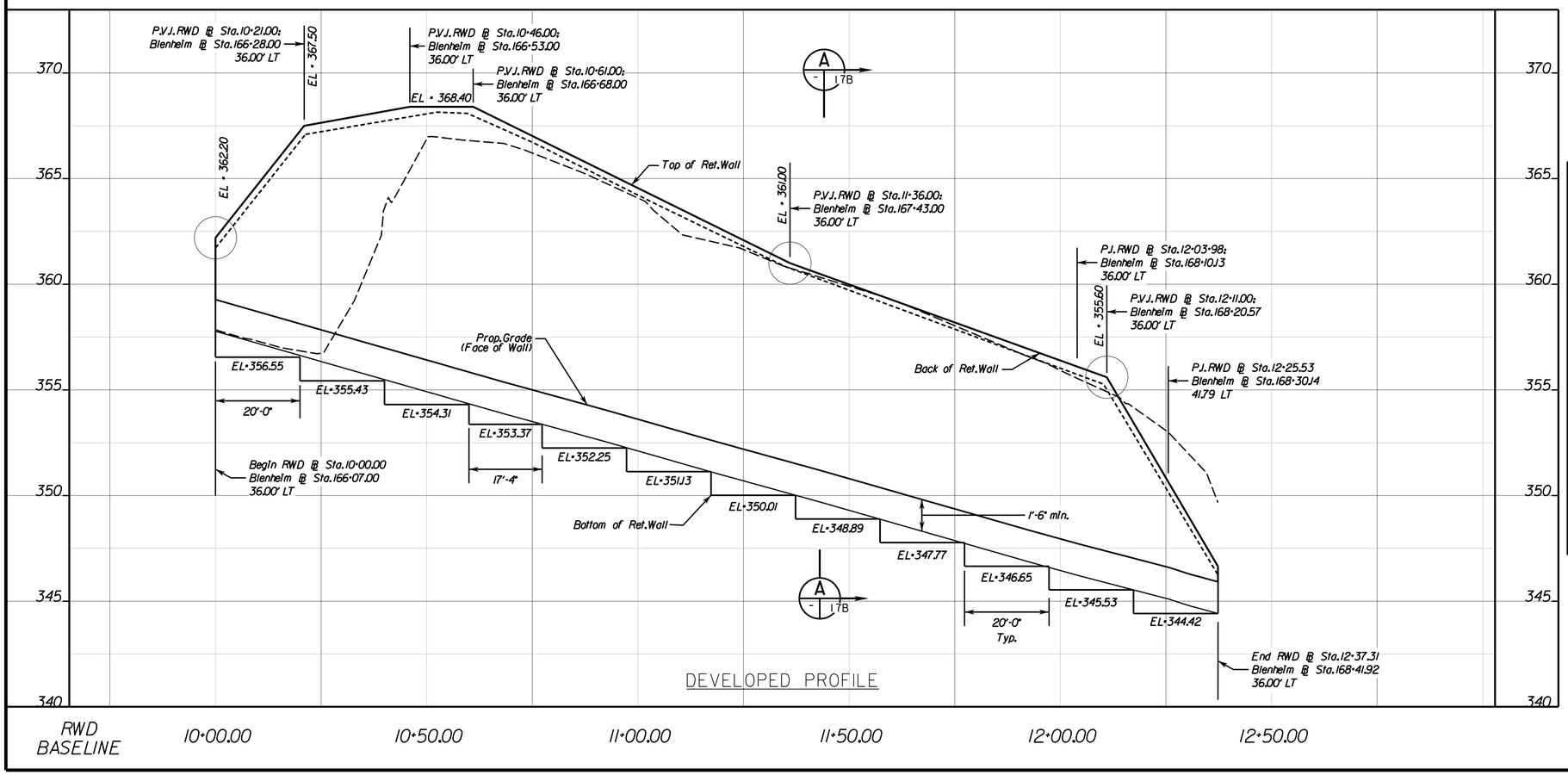
FINAL PLANS

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)

RW-D (ST'D. RW-2) - PLAN AND PROFILE



PLAN



DEVELOPED PROFILE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17(6)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:35:31 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

NOTES:

1. Retaining wall to be maintained by City of Fairfax.
2. See Sheet 2A(8) for geotechnical recommendations.
3. Wall to be stamped with drystack texture shown on 17(B).

TABLE OF ELEVATIONS

BLENHEIM BL STATION	WALL STATION	TOP OF WALL	EX. GROUND (FACE OF WALL)	PROP. GRADE (FACE OF WALL)	BOTTOM OF WALL
166+07.00	10+00.00	362.20'	357.84'	359.28'	356.55'
166+27.00	10+20.00	367.25'	356.85'	358.13'	355.43'
166+28.00	10+21.00	367.50'	356.81'	358.07'	355.43'
166+47.00	10+40.00	368.18'	363.60'	356.99'	354.31'
166+53.00	10+46.00	368.40'	365.42'	356.64'	354.31'
166+67.00	10+60.00	368.40'	366.80'	355.84'	353.37'
166+68.00	10+61.00	368.40'	366.79'	355.79'	353.37'
166+84.31	10+77.31	366.79'	366.03'	354.87'	352.25'
167+04.31	10+97.31	364.82'	364.33'	353.77'	351.13'
167+24.31	11+17.31	362.84'	362.03'	352.62'	350.01'
167+43.00	11+36.00	361.00'	360.77'	351.59'	350.01'
167+44.31	11+37.31	360.91'	360.69'	351.51'	348.89'
167+64.31	11+57.31	359.47'	359.46'	350.38'	347.77'
167+84.31	11+77.31	358.03'	357.84'	349.23'	346.65'
168+04.31	11+97.31	356.59'	356.19'	348.10'	345.53'
168+10.13	12+03.98	356.11'	355.54'	347.73'	345.53'
168+20.57	12+11.00	355.60'	354.92'	347.36'	345.53'
168+22.51	12+17.31	353.45'	354.17'	347.03'	344.42'
168+30.14	12+25.53	350.66'	353.00'	346.60'	344.42'
168+41.92	12+37.31	346.65'	349.66'	345.92'	344.42'

SCALE
0 15' 30'
0 1.5' 3'

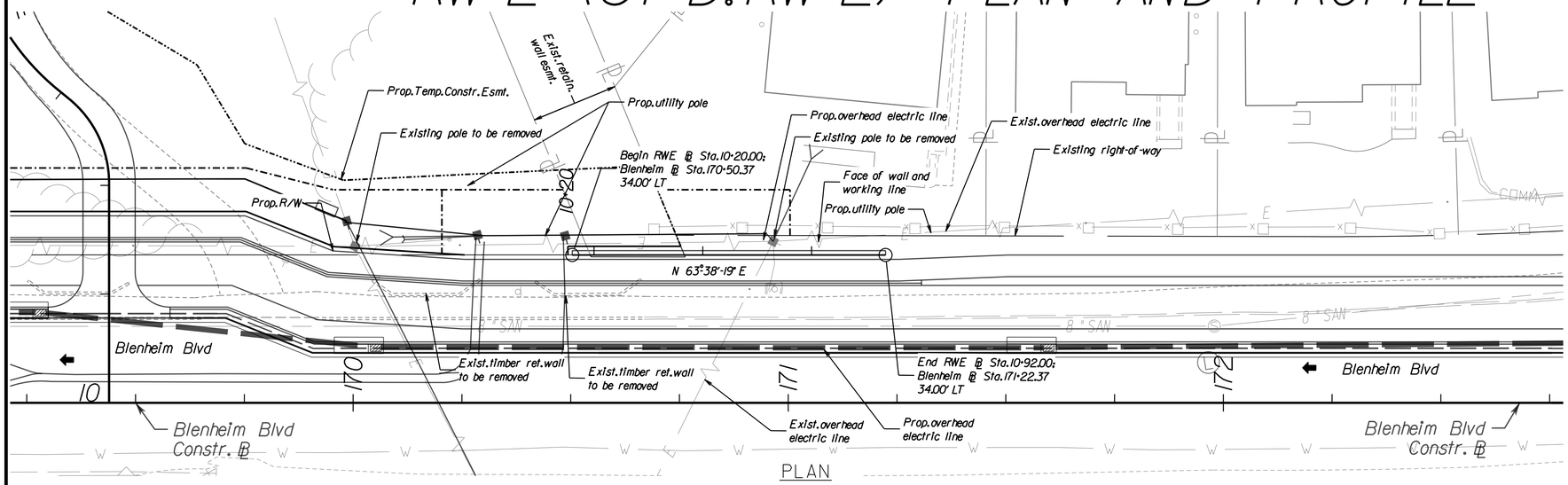
PROJECT	SHEET NO.
U000-151-R94	17(6)

FINAL PLANS

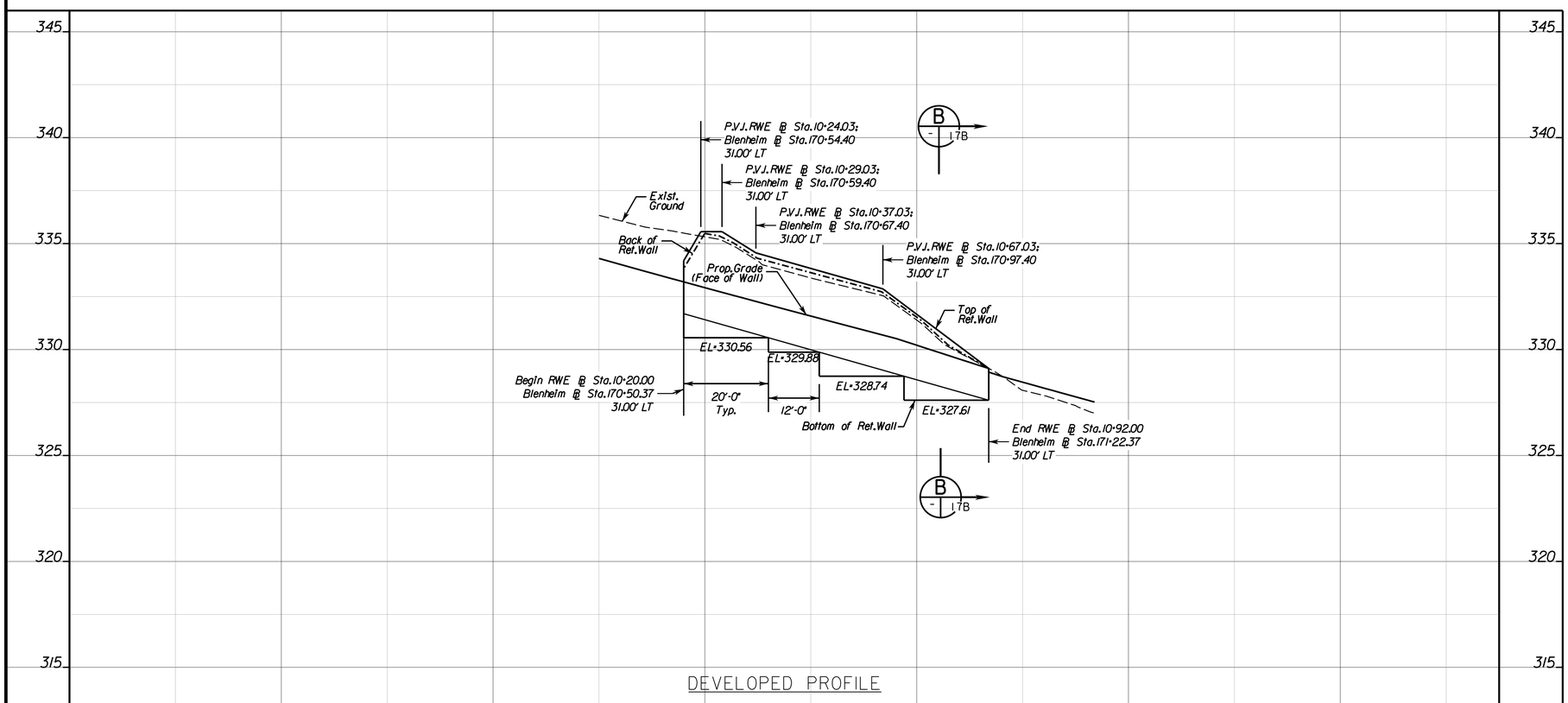
1/21/2026

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)

RW-E (ST'D. RW-2) - PLAN AND PROFILE



PLAN



DEVELOPED PROFILE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	17(7)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2026.01.23 08:35:49 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

NOTES:

1. Retaining wall to be maintained by City of Fairfax.
2. See Sheet 2A(8) for geotechnical recommendations.
3. Wall to be stamped with drystack texture shown on 17(A).

TABLE OF ELEVATIONS

BLENHEIM BL STATION	WALL STATION	TOP OF WALL	EX. GROUND (FACE OF WALL)	PROP. GRADE (FACE OF WALL)	BOTTOM OF WALL
170+50.37	10+20.00	334.19'	335.49'	333.19'	330.56'
170+54.40	10+24.03	335.56'	335.35'	332.97'	330.56'
170+59.40	10+29.03	335.56'	335.16'	332.70'	330.56'
170+64.87	10+37.03	334.56'	334.24'	332.27'	330.56'
170+70.37	10+40.00	334.40'	333.92'	332.11'	329.88'
170+82.37	10+52.00	333.72'	333.28'	331.47'	328.74'
170+97.40	10+67.03	332.86'	332.54'	330.68'	328.74'
171+02.37	10+72.00	332.12'	331.83'	330.40'	327.61'
171+22.37	10+92.00	329.11'	329.11'	329.11'	327.61'

SCALE
0 15' 30'
0 1.5' 3'

PROJECT	SHEET NO.
U000-151-R94	17(7)

FINAL PLANS

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)

Roadway Lighting Index of Sheets

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

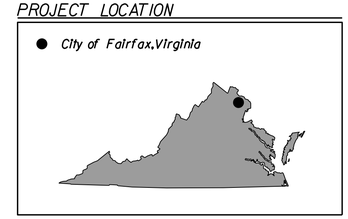
Mark Gunn
2025.12.11 22:18:27 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

Roadway Lighting Plan Overall Legend

- Prop. Pedestrian Top Post Luminaire — Exist. Luminaire
- Prop. Combination Pedestrian and Roadway Luminaire
- Prop. Roadway Luminaire
- Prop. Conduit — Exist. Lighting Conduit
- Prop. Light Pole — Exist. Light Pole
- Prop. Light Pole Foundation — Exist. Light Pole Foundation
- St'd. Junction Box Req'd. — Exist. Junction Box

PROJECT LOCATION



PROJECT LOCATION:

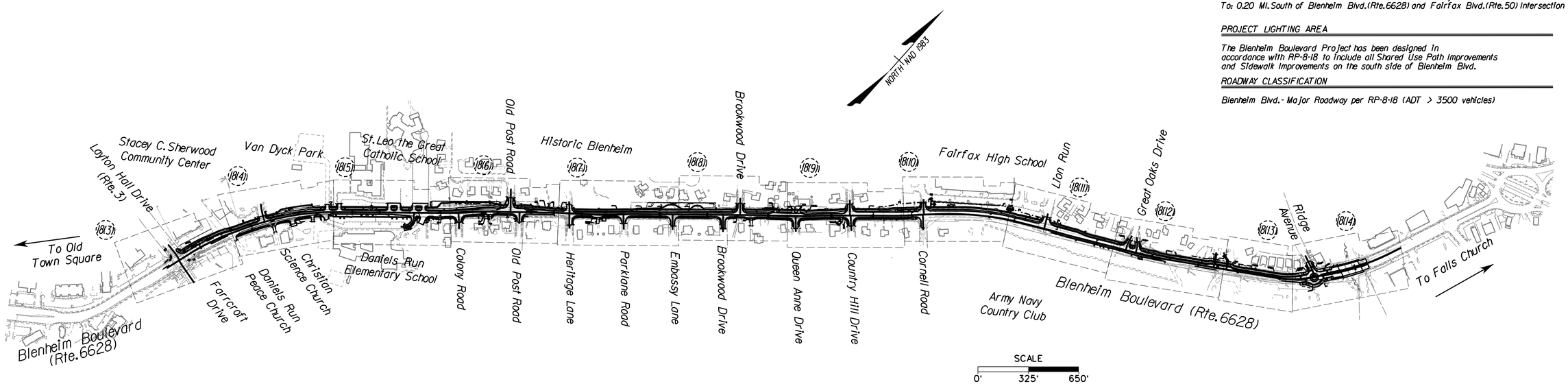
From: 0.00 Mi. North of Blenheim Blvd. (Rte. 6628) and Layton Hall Rd. (Rte. 3) Intersection
To: 0.20 Mi. South of Blenheim Blvd. (Rte. 6628) and Fairfax Blvd. (Rte. 50) Intersection

PROJECT LIGHTING AREA

The Blenheim Boulevard Project has been designed in accordance with RP-8-18 to include all Shared Use Path Improvements and Sidewalk Improvements on the south side of Blenheim Blvd.

ROADWAY CLASSIFICATION

Blenheim Blvd. - Major Roadway per RP-8-18 (ADT > 3500 vehicles)



Pole Callout Information

Pole XX, St'd. LP-1 Req'd. — Pole Number & Foundation Type
Sta. 123+15.00, 100.00' RT — Station Number of the Pole Location, & Offset Distance RT. (Right) or LT. (Left) of Referred Base Line
Blenheim Blvd. Bl. — Roadway Baseline

Luminaire Callout Information

Lamp Wattage — Arm Length — Mounting Height
204W - 10 - 40
CCWI - A - 1
Control Center — Power Phase — Power Circuit

PROJECT SHEET INDEX

Sheet No. 18 ..... Roadway Lighting Index of Sheets and Project Location Map
Sheet No. 18(1) ..... Roadway Lighting Plan General Notes
Sheet No. 18(1A) ..... Roadway Lighting Design Criteria & Statistical Calculations
Sheet No. 18(1B) ..... Roadway Lighting Luminaire Specifications
Sheet No. 18(1C) ..... Roadway Lighting Pole Specifications
Sheet No. 18(1D) ..... Roadway Lighting Pole Arm Specifications
Sheet No. 18(1E) ..... Roadway Lighting Pole Base Specifications
Sheet No. 18(1F) ..... Roadway Lighting Panelboard Details
Sheet No. 18(1G) ..... Roadway Lighting Panelboard Details
Sheet No. 18(1H) ..... Roadway Lighting Typical Details
Sheet No. 18(2) ..... Roadway Lighting Inventory
Sheet No. 18(2(1)) ..... Roadway Lighting Inventory
Sheet No. 18(2(2)) ..... Roadway Lighting Inventory
Sheet No. 18(2(3)) ..... Roadway Lighting Inventory
Sheet No. 18(3) ..... Roadway Lighting Plan
Sheet No. 18(4) ..... Roadway Lighting Plan
Sheet No. 18(5) ..... Roadway Lighting Plan
Sheet No. 18(6) ..... Roadway Lighting Plan
Sheet No. 18(7) ..... Roadway Lighting Plan
Sheet No. 18(8) ..... Roadway Lighting Plan
Sheet No. 18(9) ..... Roadway Lighting Plan
Sheet No. 18(10) ..... Roadway Lighting Plan
Sheet No. 18(11) ..... Roadway Lighting Plan
Sheet No. 18(12) ..... Roadway Lighting Plan
Sheet No. 18(13) ..... Roadway Lighting Plan
Sheet No. 18(14) ..... Roadway Lighting Plan

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18

12/10/2025

FINAL PLANS

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)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:19:01 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1)

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

Roadway Lighting Plan General Notes

LIGHTING GENERAL NOTES:

CONDUIT INSTALLATION NOTES

1. Conduit shall be schedule 40 PVC in appropriate areas and Rigid Galvanized Steel if there are loading issues, or otherwise specified by the Public Works Director. The size of the conduit shall be specified on the Plan.
2. The sum of the bend angles in a single run of conduit shall not exceed 360 degrees.
3. The ends of all conduits, whether shop or field cut, shall be reamed to remove burrs and rough edges. Cuts shall be made square and true so that the ends will butt or come together for the full circumference thereof.
4. Conduit Risers shall be installed on wood utility poles. Conduit shall be attached to the pole with conduit clamps. The Public Works Director shall determine the length of riser. A rain tight entrance cap with plastic wire entry knockouts shall be installed at the top of each riser.
5. Conduit locations are diagrammatic. Field adjustments shall be made as required to stay within the limits of construction, out of ditch lines, away from guardrail, away from fence posts, and to clear obstructions.
6. All proposed conduit bypassing light pole foundations shall have a 3 ft. preferred clearance and a 1 ft. minimum clearance from edge of foundation.
7. Conduits shall be installed with radius offsets (5' minimum radius) to bypass drainage inlets, manholes, and other obstructions.
8. At locations where proposed conduit shall cross existing conduit, the Contractor shall hand-dig the trench and shall take adequate care not to damage the existing conduit or the contents thereof. These conditions shall apply at all such conduit crossings except those locations where proposed conduit will cross conduit designated to be abandoned.

JUNCTION BOXES NOTES

1. Shall be made of a Quazite Composite material with locking cover.
2. Conduit shall enter the side(s) of the structure at the depth of the conduit run and shall extend a minimum of 2" and a maximum of 4" into the structure.
3. All junction boxes shall be set on a 12" minimum depth bedding of washed gravel (VDOT #57 stone or approved equal).
4. The top of all junction boxes shall be installed flush with the surrounding grade or pavement unless otherwise specified by the Public Works Director.
5. The conduit entrance holes shall be patched such that debris and water cannot enter the structure.
6. Station and offset references in junction box labels are based on the construction baseline as light pole label of the nearest proposed light pole.

MISCELLANEOUS NOTES:

1. The grounding rod shall be driven into undisturbed earth. The ground wire shall be attached to the ground rod with a ground clamp.
2. The ground wire shall be continuous and unspliced from the ground rod to the lighting pole if applicable.
3. Ground wire shall be #8 AWG solid bare copper wire.
4. The Contractor shall restore all areas disturbed by his operation to conditions equal to or better than existing conditions.
5. The Contractor shall remove surplus materials, unsuitable soil, trash, and debris and legally dispose of off-site.

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Roadway Lighting Design Criteria and Statistical Calculations

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1A)

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Photometric Calculation Results - Roundabout
(Recommended values from RP-8-18 Table 12-4, measured in Fc)

Roadway	Calc Type	Units	Avg*	Max	Min	Avg/Min**	Ev, min* (crosswalks)
Recommended values (Major/Collector, Low Pedestrian Activity)	Illuminance	Fc	1.4	N/A	N/A	3.0	0.1
Blenheim - Roundabout	Illuminance	Fc	1.4	2.6	0.5	2.9	0.5

Photometric Calculation Results - Intersections
(Recommended values from RP-8-18 Table 12-2, measured in Fc)

Roadway	Calc Type	Units	Avg*	Max	Min	Avg/Min**
Recommended values (Major street, R2 & R3 Pavement Type)	Illuminance	Fc	0.8	N/A	N/A	3.0
Blenheim - 1	Illuminance	Fc	1.1	2.0	0.4	2.7
Blenheim - 2	Illuminance	Fc	1.3	2.1	0.6	2.1
Blenheim - 3	Illuminance	Fc	1.5	2.8	0.5	3.0
Blenheim - 4	Illuminance	Fc	1.2	2.1	0.6	2.0
Blenheim - 5	Illuminance	Fc	1.4	2.4	0.5	2.8
Blenheim - 6	Illuminance	Fc	1.2	2.3	0.5	2.4
Blenheim - 7	Illuminance	Fc	1.6	2.3	0.8	2.0
Blenheim - 8	Illuminance	Fc	1.3	2.6	0.5	2.5
Blenheim - 9	Illuminance	Fc	1.4	2.7	0.5	2.7
Blenheim - 10	Illuminance	Fc	1.3	2.6	0.5	2.6
Blenheim - 11	Illuminance	Fc	1.0	2.1	0.4	2.5
Blenheim - 12	Illuminance	Fc	1.2	2.1	0.4	3.0
Blenheim - 13	Illuminance	Fc	1.0	1.9	0.4	2.5
Blenheim - 14	Illuminance	Fc	1.5	2.5	0.5	3.0

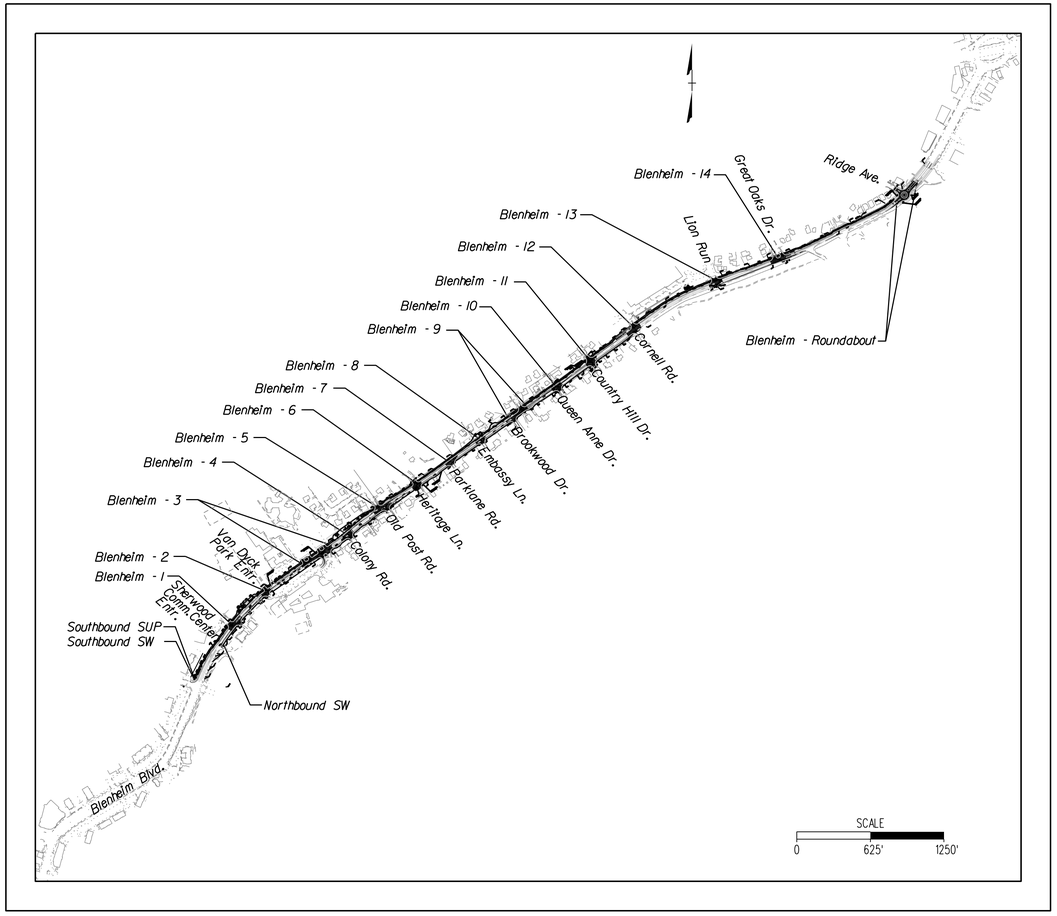
Photometric Calculation Results - Pedestrian Illuminance
(Recommended values from RP-8-18 Table 16-2, measured in Fc)

Pedestrian Path	Calc Type	Units	Avg*	Max	Emin*	Ev, min*	Avg/Min**
Recommended values (Low Density Street Classification)	Illuminance	Fc	0.3	N/A	0.1	0.1	6.0
NB Sidewalk	Illuminance	Fc	1.5	3.5	0.3	0.1	4.7
SB Shared Use Path	Illuminance	Fc	1.3	2.9	0.3	0.1	4.5
SB Sidewalk	Illuminance	Fc	0.9	2.7	0.2	0.1	4.5

* Indicates results must meet or exceed recommended value from RP-8-18 Table

** Indicates results must not exceed recommended value from RP-8-18 Table

Statistical Area Map



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

Roadway Lighting Luminaire Specifications

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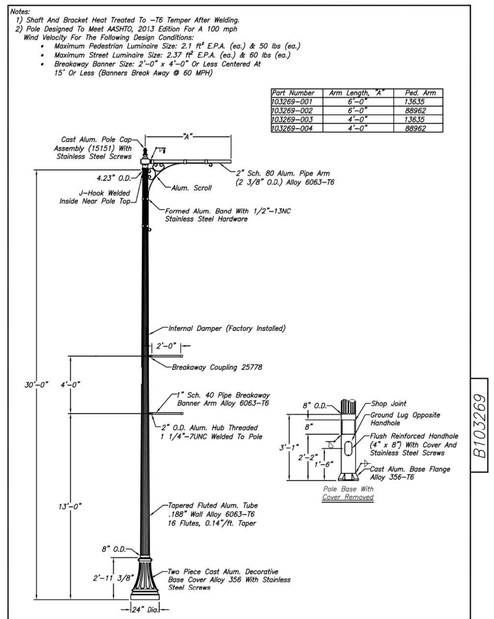
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1B)

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

Std. Combination Pole



Part Number	Arm Length, "A"	Ped. Arm
103269–001	6'–0"	13635
103269–002	6'–0"	88962
103269–003	4'–0"	13635
103269–004	4'–0"	88962

Ref: 28886, 88962, 36525, 103070

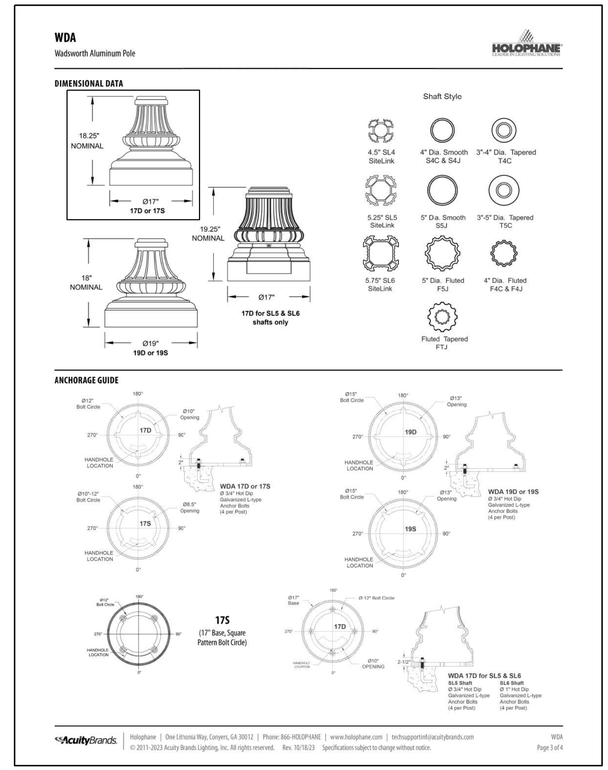
No.	REVISIONS	DATE
1	Added Table Per Dominion Request (BAD)	3.20
2	Revised Loading Per Dominion Request (BAD)	4.20

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

hapco
Abingdon, Va.

TITLE YORK SERIES LIGHTING POLE
CUSTOMER Dominion Power
SCALE .32 DATE 01/23/2019
BY TNB DWG. NO. B103269
CHK'D

Std. Combination Pole



PROJECT	SHEET NO.
U000-151-R94	18(1B)

12/10/2025

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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Shared Roadway/Combination Lighting Pole Specifications

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1C)

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

Std.Roadway & Std.Combination Pole

HOLOPHANE
LEADER IN LIGHTING SOLUTIONS

Catalog Number	
Notes	Type

ESPL2
Esplanade® Teardrop Pedestrian Roadway LED Pendant

Description
The Esplanade luminaire is styled to replicate the "teardrop" luminaires that lighted boulevards in the first half of the 1900s. Designed for light control and ease of installation and maintenance, the Esplanade has a precision optical system for true street lighting performance.

Mounting Style (Leveling Fitter Options)
Three mounting versions are available.
- An arm mount version which is provided with two U-bolts with washers and nuts and two leveling set screws that lock the housing to a 2 inch nominal (2-3/8" O.D.) horizontal arm and allow a +/- 5 degree adjustment from horizontal to the cover.
- A pendant mount version (either 1.25NPT or 1.5NPT) which threads to a vertical NPT male threaded pipe fitting and is locked in place by a stainless steel set screw.
- A QSM (Quick Lock Stem Mounting), which consists of a vertical stem with flared top that mounts into a matching QSM fitter or arm. The QSM mount can aid in installation speed as it is a quicker installation than the other mounting methods.

Note: the QSM style is compatible with the following leveling fitters:
- Boston Harbor Decorative Arm Fitter (BHDF)
- GlasWerks Decorative Arm Fitter (GWDF)
- West Liberty Decorative Arm Fitter (WLDF)
- Ball Style Decorative Arm Fitter (BADF)

Electrical/ Reflector Assembly
The electrical / reflector assembly hinges down from the wiring chamber for ease in wiring and to facilitate the removal of the electrical module. The assembly is secured in place by a stainless steel latch. The unitized electrical module consists of the electronic driver and components mounted to an aluminum plate that is easily removed by loosening two screws in the base of the housing. The disconnect plug connects the ballast to the terminal block in the wiring chamber.

Refractor / Door Assembly
The cast aluminum door supports a teardrop, bowl or sag shaped, thermal resistant borosilicate glass refractor that controls the light to provide an I.E.S. asymmetric (teardrop, bowl and sag glass) and symmetric (bowl and sag glass) distribution. I.E.S. asymmetric cut off distribution is available on the bowl glass with the decorative deep skirt option and the sag glass with either the decorative shallow or deep skirt option. The refractor assembly and decorative skirt (when applicable) assembly hinges from the electrical/ reflector assembly and is latched by a tamper-resistant, color matched bracket and with nut assembly.

Driver
LED programmable dimmable driver located in the upper electrical housing.

Finish/ Material
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Certification
CSA listing suitable for wet location up to 40°C. Consult factory for details.

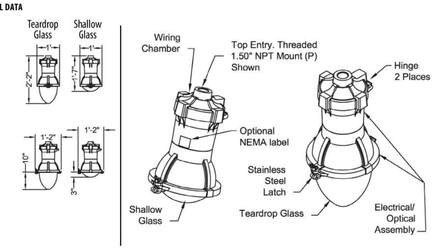
BUY AMERICAN ACT
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regualations. Please refer to www.acuitybrands.com/resources/buyamerican for additional information.

Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

BA

DIMENSIONAL DATA



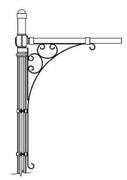
Maximum Weight - 49 lbs
Maximum Effective Projected Area - ESPL2 1.43 ft², ESPL2 SS 1.64 ft², ESPL2 DS 1.8 ft²

Std.Roadway & Std.Combination Pole

HOLOPHANE
LEADER IN LIGHTING SOLUTIONS

Catalog Number	
Notes	Type

CAM
Camden Aluminum Roadway Arm



General Description
The Camden decorative roadway arm(s) shall be all aluminum construction with plain straight horizontal arms, decorative scrolled arm supports, and will terminate in a 2" nominal pipe horizontal arm.

Materials
The post mounting piece and luminaire arm shall be:
- Heavy wall cast #356 aluminum alloy and schedule 40 aluminum pipe.

Installation
- Luminaire Mounting: Intended for pendent mounted luminaires, using a mounting adaptor (not shown) to mount to a threaded top entry.
- Slipfitter: Arm(s) slipfit a 3" by 4" tall tenon.
- A clamping bracket or Sitelink Tracnut hardware is provided to attach the decorative support strap to the pole shaft.

Finish
- Utilize a polyester powder coat paint to ensure maximum durability.
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Warranty
1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at (Holophane Pole Warranty): www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

ORDERING INFORMATION **Example:** CAM 72IN 1A TN SL5 BK

Series		Length		Number of Arms		Mount		Shaft Style		Finish	
CAM	Camden Roadway Arm	36IN	Roadway Arm 36" Length	1A	Single Roadway Arm	BO[1]	Bolt-on mount attaches to side of Sitelink pole.	Fluted Shaft		BK	Black
		48IN	Roadway Arm 48" Length	2A	Double Roadway Arm, 2 single arms @ 180°	TN	Tenon mount.	F4C	4" diameter, .125 wall	BZ	Bronze
		72IN	Roadway Arm 72" Length			WB[2]	Wall bracket mount.	F4J	4" diameter, .25 wall	CMC	Customer matching color
		96IN	Roadway Arm 96" Length					F5J	5" diameter, .25 wall	CTBS	Standard color to be selected
								Smooth Shaft		DB	Dark Blue
								S4C	4" diameter, .125 wall	GN	Green
								S4J	4" diameter, .25 wall	GH	Graphite
								S5J	5" diameter, .25 wall	GR	Gray
								SiteLink		PP	Prime Painted
								SL4	4.50" fluted, .156 wall	RALxxxxSDCR	RAL Super Durable Corrosion Resistant, 80% Gloss Paint, replace xxxx with RAL number.
								SL5	5.25" fluted, .25 wall	SL	Silver
								SL6	5.75" fluted, .25 wall	WH	White
								SL8	8.50" fluted, .188 wall		
								ST2	5.75" extruded, .25 wall		
								ST3	8.50" extruded, .22 wall		
								Tapered Shaft			
								CDXCDV	Use on AORTA, AORTS, FTA, FTB, FTJ, FTM, FTN, T4C & T5C, not available with WB		

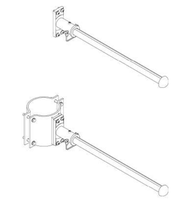
NOTE:
1 Only available in 1A. Not available with T4C or T5C shaft
2 Only available in 1A. Not available with any shaft style. Available only in 48 inch arm.

Std.Roadway & Std.Combination Pole

HOLOPHANE
LEADER IN LIGHTING SOLUTIONS

Catalog Number	
Notes	Type

BA
Aluminum Banner Arms



General Description
The banner arm is designed to allow the mounting of decorative or informational banners onto a pole shaft. Four nominal sizes of banner arm are available and can be provided as bolt-on or clamp-on mounting styles. Eyebolts and decorative scrolls are optional.

Note: Banner arms can add substantial wind loading to the post you select. Please coordinate the correct post size and style with the factory. Also, arms are not designed for pedestrian interference. Banners to be provided by others.

Construction
- The bolt-on and Sitelink banner arms shall be two piece construction.
- The bolt-on and Sitelink banner arms shall consist of a cast aluminum coupling and a round banner arm with finial.
- The clamp-on banner arms shall consist of a clamping plate with provision and a standard bolt-on banner arm mounted to it.
- All banner arms are attached to the coupling using a stainless steel latch pin for easy removal.
- All welding shall be per ANSI/AWS D1.2-90.
- All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

Materials
- The arm itself shall consist of aluminum 6061 schedule 80 pipe or extrusion.
- The bolt-on coupling shall be ASTM 356 alloy per ASTM B-179 or ASTM B26.
- The clamp-on mounting plate shall be 6061 aluminum plate with a 6061 provision welded to it.
- The finial shall be ASTM 356 alloy per ASTM B-179 or ASTM B26 and welded to the end of the banner arm.
- All hardware shall be stainless steel.

Finish
- Utilize a polyester powder coat paint to ensure maximum durability.
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Installation
- The bolt-on banner arm shall bolt to a mounting channel on the side of the port with four stainless steel screws.
- The Sitelink flagpole holders shall bolt to a channel on the Sitelink shaft using included two bolts and Tracnuts.
- The clamp-on mounting shall clamp around the post, secured with four 3/8" hex head bolts. (Post diameter at mounting point must be specified).
- The banner arm shall mount into the coupling and be secured by a 1/4" stainless steel latch pin.

Dimensions
- Banner arms are available in various arm diameters and lengths. Nominal arm diameters are 0.75", 1.00", 1.25" and 1.50".
- Available lengths are shown in the Ordering Information.

Warranty
1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

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SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

Combination Lighting Pole Specifications

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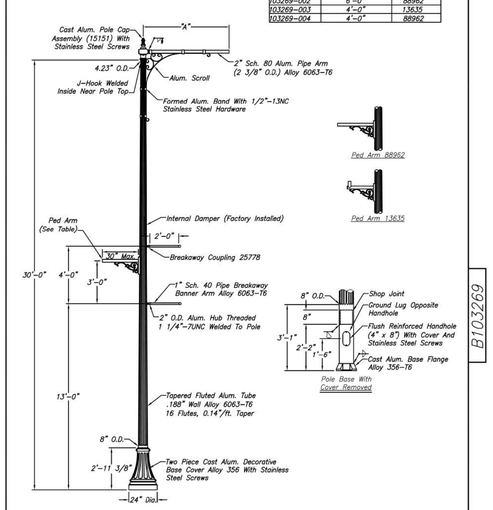
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1D)

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

Std.Combination Pole

Notes:
1) Shaft And Bracket Heat Treated To –T6 Temper After Welding.
2) Pole Designed To Meet AASHTO, 2013 Edition For A 100 mph Wind Velocity For The Following Design Conditions:
- Maximum Pedestrian Luminaire Size: 2.1 ft² E.P.A. (ea.) & 50 lbs (ea.)
- Maximum Street Luminaire Size: 2.37 ft² E.P.A. (ea.) & 60 lbs (ea.)
- Breakaway Banner Size: 2'–0" x 4'–0" Or Less Centered At 15' Or Less (Banners Break Away @ 60 MPH)

Part Number	Arm Length, "A"	Ped. Arm
103269–001	6'–0"	13635
103269–002	6'–0"	88962
103269–003	4'–0"	13635
103269–004	4'–0"	88962



B103269

Ref: 28886, 88962, 36525, 103070

NO.	REVISIONS	DATE
1	Added Table Per Dominion Request (BAD)	3.20
2	Revised Loading Per Dominion Request (BAD)	4.20

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

hapco Abingdon, Va.

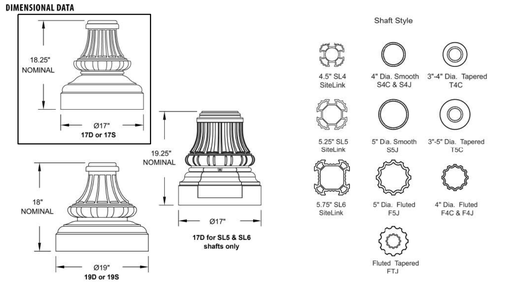
TITLE YORK SERIES LIGHTING POLE
CUSTOMER Dominion Power
SCALE 32 DATE 01/23/2019
BY TNB DWG. NO. B103269
CHK'D

Std.Combination Pole

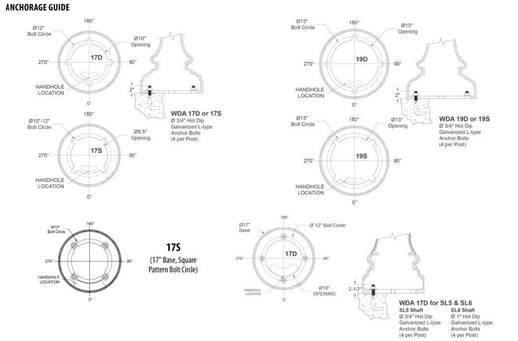
WDA
Wadsworth Aluminum Pole

HOLOPHANE

DIMENSIONAL DATA



ANCHORAGE GUIDE



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PROJECT	SHEET NO.
U000-151-R94	18(1D)

12/10/2025

FINAL PLANS

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)

Decorative Lighting Pole Specifications

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Rinker Design Assoc. L.L.C.
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1E)

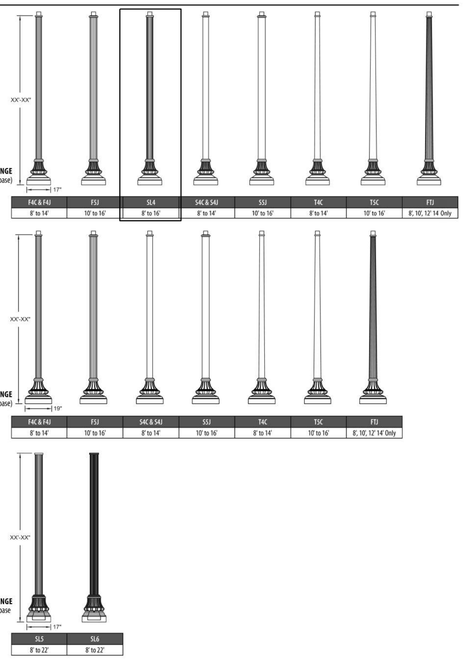
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Std. Decorative Pole

WDA
Wadsworth Aluminum Pole

HOLOPHANE

POLE GUIDE



F4(& F4)	F5J	SL4	S4C & S4J	S5J	T4C	T5C	FTJ
8' to 14'	10' to 16'	8' to 16'	8' to 14'	10' to 16'	8' to 14'	10' to 16'	8', 10', 12' 14 Only

F4C & F4J	F5J	S4C & S4J	S5J	T4C	T5C	FTJ
8' to 14'	10' to 16'	8' to 14'	10' to 16'	8' to 14'	10' to 16'	8', 10', 12' 14 Only

SL5	SL6
8' to 22'	8' to 22'

Std. Decorative Pole

HOLOPHANE
LEADER IN LIGHTING SOLUTIONS

Catalog Number	
Notes	Type

WFCL3
Utility Washington Series Luminaire
Full Cutoff LED3

Mechanical
- Heavy grade A360 cast aluminum (<1% copper)
- Tool-less access with a spring-loaded latch
- Hidden hinge door allowing the door to swing open and remain open
- Optional internal or external NEMA twist lock photocontrol receptacle. Housing contains a tempered glass window to allow light to reach the cell for internal versions.
- Mount to slip-fitter that will accept 3" high by 2-7/8" to 3-1/8" O.D. pole tenon
- Decorative top cover contains stainless steel hinge which secures entry the LED optical chamber
- Polyester power coat paint to ensure maximum durability
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxx5DCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Electrical
- Surge protection meets ANSI/IEEE C62.41.2 10kV/10kA.
- Standard SPD meets 20kV/10kA per ANSI C136.2-2015
- Quick disconnect connectors for ease of installation and maintenance.
- Three pole terminal block is standard, with optional prewired leads for ease of installation
- LED electronic 0-10v dimmable driver meets maximum total harmonic distortion (THD) of 20%, >0.90 Power Factor and is ROHS compliant.
- Minimum operating temperature is -40°C.
- Electronic driver has an estimated minimum life of 100,000 hours at 25°C.

Optical
- IP65 rated optical compartment
- LED circuit board located in the top cover
- Asymmetric or Symmetric zero uplight distributions
- 2700K, 3000K and 4000K CCT
- 70CRI Standard

Control Options
- Field Adjustable Output (AO) module - Onboard device that adjusts the light output and input wattage to meet site specific requirements. The AO module is preset at the factory to position number 8
- nLight Air rSBOR6 outdoor fixture-mounted motion and photo-sensor, features a dual radio to communicate wirelessly to other nLight Air devices for group response to motion, on/off control in response to daylight and by switch – RSBOR6

- Long life photocontrol, 20 years – PCLL, P34 and P48 with DTL
- 7 pin photocontrol receptacles internally (PR7) or externally (PR7E) mounted in place of the finial
- DTL DIN dedicated bracket with external mounted antenna - DNBRA

Manufacturing
- Manufactured in Crawfordsville, Indiana, ARRA compliant
- 100% electrical testing on all luminaires before shipment
- Ten (10) years minimum experience in manufacturing LED based products

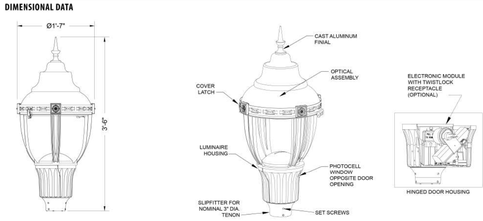
Certification and Standards
- Luminaire shall be UL 1598 - Wet Location Safety Listing
- Suitable for operation in an ambient temperature -40°C (40°F) to 40°C (104°F) per UL certification for performance packages P05 thru P100 Type 2, 3 & 5 no glass, P05 thru P90 Type 2, 3, 4 & 5 clear glass and P05 thru P90 Type 3 & 5 frosted glass
- Suitable for operation in an ambient temperature -40°C (40°F) to 35°C (95°F) per UL certification for performance packages P100 Type 45 no glass, P100 Type 2, 3, 4 & 5 clear glass and P100 Type 3 & 5 frosted glass
- LM79 compliant
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Buy American Act
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

DIMENSIONAL DATA



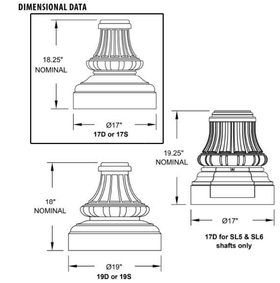
Maximum Weight - 53 lbs
Maximum Effective Projected Area - 1.72 sq. ft.

Std. Decorative Pole

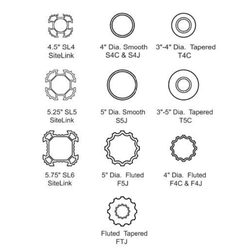
WDA
Wadsworth Aluminum Pole

HOLOPHANE

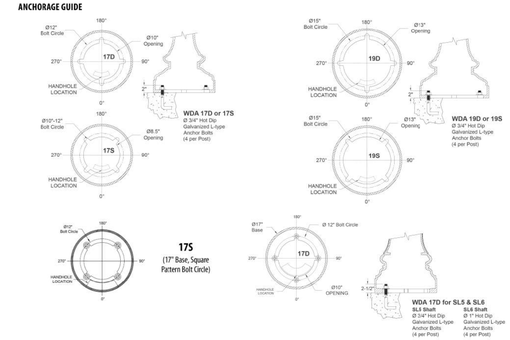
DIMENSIONAL DATA



Shaft Style



ANCHORAGE GUIDE



12/10/2025

PROJECT	SHEET NO.
U000-151-R94	18(1E)

FINAL PLANS

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)

Roadway Lighting Panelboard Details

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:22:24 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1F)

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

PANEL BOARD SCHEDULE (CCW1, NORTH OF SHERWOOD COMMUNITY CENTER ENTRANCE)

LIGHTING CONTROL CENTER 1

LOAD DESCRIPTION	WIRE SIZE	PHASE(S)	VOLTAGE	AMPERAGE BRKR. AMPS	AMPERAGE LOAD AMPS	CIRCUIT NUMBER	A B	CIRCUIT NUMBER	AMPERAGE LOAD AMPS	AMPERAGE BRKR. AMPS	VOLTAGE	PHASE(S)	WIRE SIZE	LOAD DESCRIPTION
Poles 1,3,5,7,9,11	#1	A	120	15	12	1		2	12	15	120	B	#1	Poles 2,4,6,8,10,13
Poles 121,14,16,17,19,21,23	#1	A	120	15	12	3		4	12	15	120	B	#1	Poles 120,12,15,18,20,22
Poles 122,17,124,128,127,128	#2	A	120	15	12	5		6	12	15	120	B	#2	Poles 116,117,118,119,123,125
SPARE						7		8						SPARE
PHOTOCELL	#10	A	120	15	0.7	9		10						SPARE

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.
TOTAL LOAD: 73 AMPS
100 AMP MAN CIRCUT BREAKER
120/240V, SINGLE PHASE, 3 WIRE
VDOT STD: SE-5, CCW-1 TYPE C

MAX VOLTAGE DROP: 2.76%
TOTAL LOAD: 73 AMPS

PANEL BOARD SCHEDULE (CCW2, ACROSS FROM COLONY ROAD INTERSECTION)

LIGHTING CONTROL CENTER 2

LOAD DESCRIPTION	WIRE SIZE	PHASE(S)	VOLTAGE	AMPERAGE BRKR. AMPS	AMPERAGE LOAD AMPS	CIRCUIT NUMBER	A B	CIRCUIT NUMBER	AMPERAGE LOAD AMPS	AMPERAGE BRKR. AMPS	VOLTAGE	PHASE(S)	WIRE SIZE	LOAD DESCRIPTION
Poles 24,26,28,30,33,35	#1	A	120	15	12	1		2	12	15	120	B	#3	Poles 25,27,29,31,32,33
Poles 138,36,38,41,43,45	#1	A	120	15	12	3		4	12	15	120	B	#1	Poles 37,39,40,42,44,46
Poles 129,131,133,136	#4	A	120	15	8	5		6	8	15	120	B	#4	Poles 130,132,134,137
Poles 140,141,143,144,146,148	#1	A	120	15	12	7		8	10	15	120	B	#2	Poles 139,142,145,147,149
PHOTOCELL	#10	A	120	15	0.7	9		10						SPARE

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.
TOTAL LOAD: 87 AMPS
100 AMP MAN CIRCUT BREAKER
120/240V, SINGLE PHASE, 3 WIRE
VDOT STD: SE-5, CCW-1 TYPE C

MAX VOLTAGE DROP: 3.00%
TOTAL LOAD: 87 AMPS

PANEL BOARD SCHEDULE (CCW3, ACROSS FROM EMBASSY LANE INTERSECTION)

LIGHTING CONTROL CENTER 3

LOAD DESCRIPTION	WIRE SIZE	PHASE(S)	VOLTAGE	AMPERAGE BRKR. AMPS	AMPERAGE LOAD AMPS	CIRCUIT NUMBER	A B	CIRCUIT NUMBER	AMPERAGE LOAD AMPS	AMPERAGE BRKR. AMPS	VOLTAGE	PHASE(S)	WIRE SIZE	LOAD DESCRIPTION
Poles 47,49,51,53,55	#2	A	120	15	10	1		2	10	15	120	B	#3	Poles 48,50,52,54,56
Poles 150,152,154,156,158	#2	A	120	15	10	3		4	10	15	120	B	#2	Poles 151,153,155,157,159
Poles 160,161,162,163,164,165	#2	A	120	15	12	5		6	14	15	120	B	#2	Poles 57,59,60,61,62,63,64
SPARE						7		8						SPARE
PHOTOCELL	#10	A	120	15	0.7	9		10						SPARE

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.
TOTAL LOAD: 67 AMPS
100 AMP MAN CIRCUT BREAKER
120/240V, SINGLE PHASE, 3 WIRE
VDOT STD: SE-5, CCW-1 TYPE C

MAX VOLTAGE DROP: 2.47%
TOTAL LOAD: 67 AMPS

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE VDOT STANDARDS AND THE NATIONAL ELECTRIC CODE.

2. SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(''S SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

3. CONTRACTOR SHALL COORDINATE ALL PANEL AND CABINET REQUIREMENTS WITH DEVELOPER PRIOR TO ANY INSTALLATION.

PROJECT	SHEET NO.
U000-151-R94	18(1F)

12/10/2025

FINAL PLANS

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)

Roadway Lighting Panelboard Details

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:23:32 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1G)

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

PANEL BOARD SCHEDULE (CCW4, NORTH OF COUNTRY HILL DRIVE)

LIGHTING CONTROL CENTER 4

LOAD DESCRIPTION	WIRE SIZE	PHASE(S)	VOLTAGE	AMPERAGE BRKR. AMPS	AMPERAGE LOAD AMPS	CIRCUIT NUMBER	A B	CIRCUIT NUMBER	AMPERAGE LOAD AMPS	AMPERAGE BRKR. AMPS	VOLTAGE	PHASE(S)	WIRE SIZE	LOAD DESCRIPTION
Poles 75,78,80,81,82	#1	A	120	15	10	1		2	12	15	120	B	#1	Pole 68,70,72,74,76,79
Poles 65,66,67,69,71,73	#1	A	120	15	12	3		4	10	15	120	B	#1	Poles 167,170,174,176,180
Poles 169,171,173,177,179	#2	A	120	15	10	5		6	10	15	120	B	#2	Poles 166,168,172,175,178
SPARE						7		8						SPARE
PHOTOCELL	#10	A	120	15	0.7	9		10						SPARE

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.
TOTAL LOAD: 65 AMPS
100 AMP MAN CIRCUT BREAKER
120/240V, SINGLE PHASE, 3 WIRE
VDOT STD: SE-5, CCW-1 TYPE C

MAX VOLTAGE DROP: 2.98%
TOTAL LOAD: 65 AMPS

PANEL BOARD SCHEDULE (CCW5, ACROSS FROM LION RUN INTERSECTION)

LIGHTING CONTROL CENTER 5

LOAD DESCRIPTION	WIRE SIZE	PHASE(S)	VOLTAGE	AMPERAGE BRKR. AMPS	AMPERAGE LOAD AMPS	CIRCUIT NUMBER	A B	CIRCUIT NUMBER	AMPERAGE LOAD AMPS	AMPERAGE BRKR. AMPS	VOLTAGE	PHASE(S)	WIRE SIZE	LOAD DESCRIPTION
Poles 84,86,89,91	#4	A	120	15	8	1		2	10	15	120	B	#2	Pole 83,85,87,88,90
Poles 91,92,94,96,181	#2	A	120	15	10	3		4	8	15	120	B	#4	Poles 186,93,95,97
SPARE						5		6						SPARE
SPARE						7		8						SPARE
PHOTOCELL	#10	A	120	15	0.7	9		10						SPARE

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.
TOTAL LOAD: 36 AMPS
100 AMP MAN CIRCUT BREAKER
120/240V, SINGLE PHASE, 3 WIRE
VDOT STD: SE-5, CCW-1 TYPE C

MAX VOLTAGE DROP: 2.76%
TOTAL LOAD: 36 AMPS

PANEL BOARD SCHEDULE (CCW6, NORTH OF GREAT OAKS DRIVE)

LIGHTING CONTROL CENTER 6

LOAD DESCRIPTION	WIRE SIZE	PHASE(S)	VOLTAGE	AMPERAGE BRKR. AMPS	AMPERAGE LOAD AMPS	CIRCUIT NUMBER	A B	CIRCUIT NUMBER	AMPERAGE LOAD AMPS	AMPERAGE BRKR. AMPS	VOLTAGE	PHASE(S)	WIRE SIZE	LOAD DESCRIPTION
Poles 99,182,101,103,105	#1	A	120	15	12	1		2	12	15	120	B	#1	Poles 98,100,102,104,106
Poles 107,109,111,183,113,185	#1	A	120	15	12	3		4	12	15	120	B	#1	Poles 108,110,112,184,114,115
SPARE						5		6						SPARE
SPARE						7		8						SPARE
PHOTOCELL	#10	A	120	15	0.7	9		10						SPARE

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.
TOTAL LOAD: 42 AMPS
100 AMP MAN CIRCUT BREAKER
120/240V, SINGLE PHASE, 3 WIRE
VDOT STD: SE-5, CCW-1 TYPE C

MAX VOLTAGE DROP: 2.79%
TOTAL LOAD: 42 AMPS

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE VDOT STANDARDS AND THE NATIONAL ELECTRIC CODE.

2. SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

3. CONTRACTOR SHALL COORDINATE ALL PANEL AND CABINET REQUIREMENTS WITH DEVELOPER PRIOR TO ANY INSTALLATION.

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)

Roadway Lighting Typical Details

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

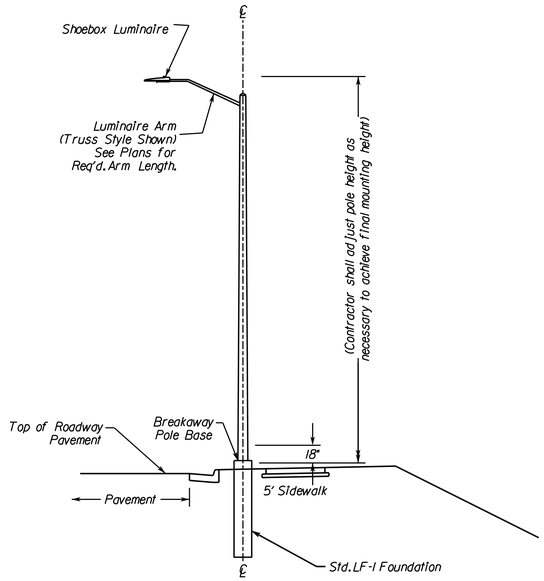
Mark Gunn
2025.12.11 22:23:56 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1H)

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

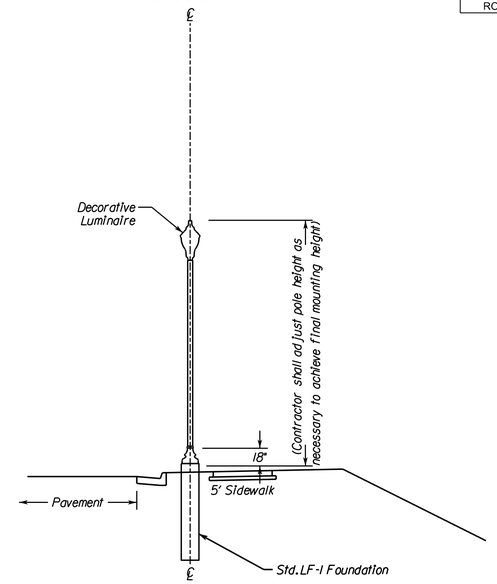
Std. Roadway Pole

Not to Scale



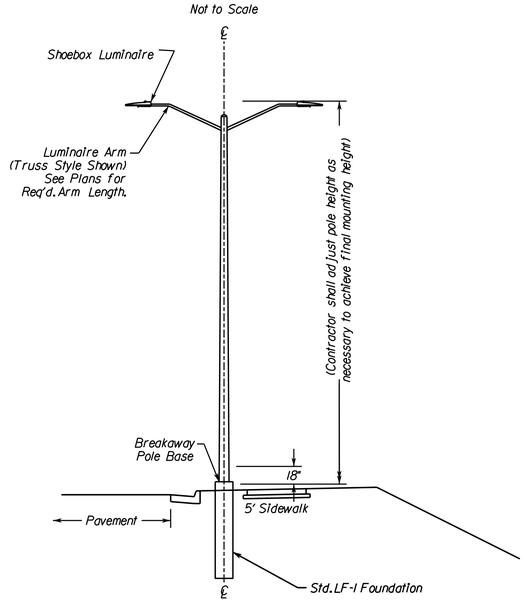
Std. Decorative Pole

Not to Scale



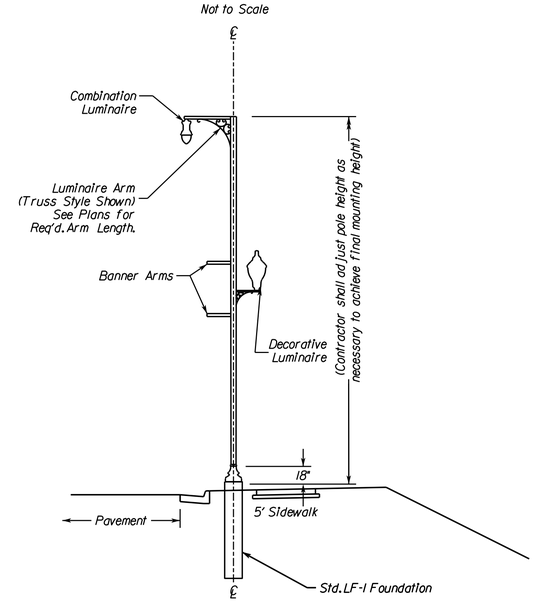
Std. Roadway Pole - Dual Luminaire

Not to Scale



Std. Combination Pole

Not to Scale



PROJECT	SHEET NO.
U000-151-R94	18(1H)

12/10/2025

FINAL PLANS

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)

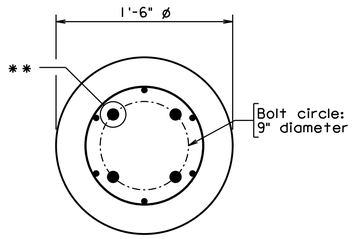
FOUNDATION DETAILS FOR PEDESTRIAN/STREET LIGHT POLES

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

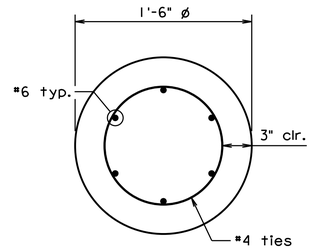
Mark Gunn
2026.01.26 15:46:17 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1J)

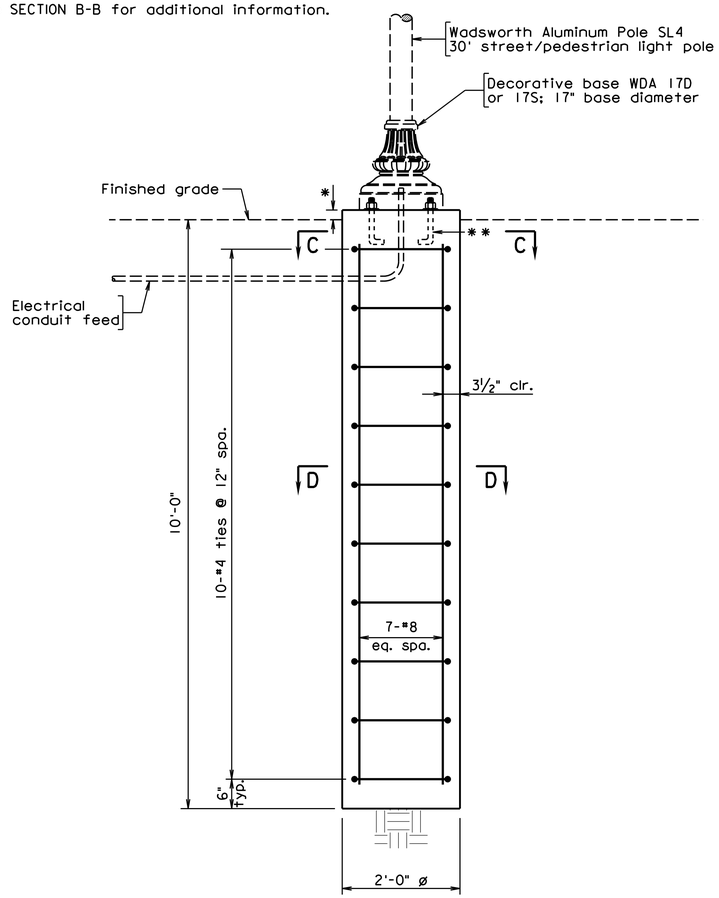
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



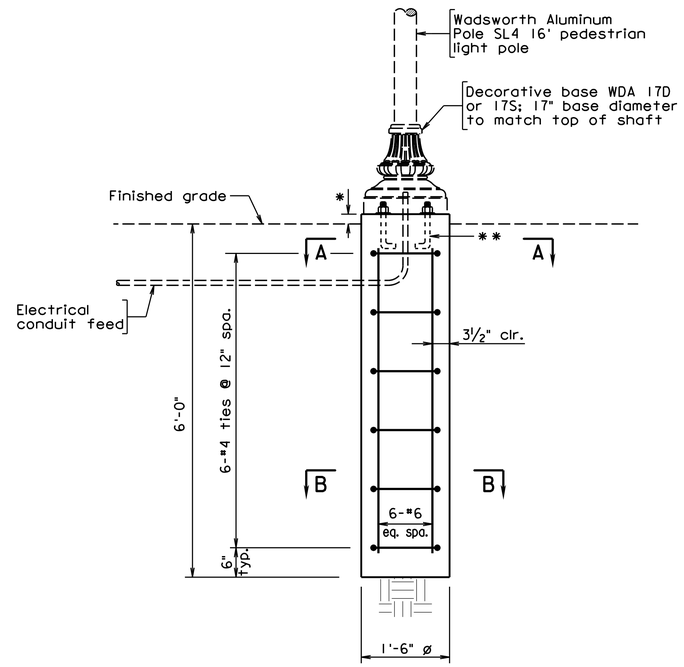
SECTION A-A
Scale: 1½" = 1'-0"
See SECTION B-B for additional information.



SECTION B-B
Scale: 1½" = 1'-0"



FOUNDATION "A"
30' STREET/PEDESTRIAN LIGHT POLE DRILLED SHAFT ELEVATION
Grounding equipment not shown for clarity.



FOUNDATION "B"
16' PEDESTRIAN LIGHT POLE DRILLED SHAFT ELEVATION
Grounding equipment not shown for clarity.

NOTES:

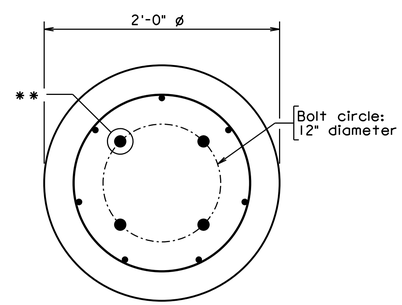
Concrete for the drilled shafts shall be VDOT Class A3 (f'c = 3000 psi minimum). VDOT self-consolidating concrete is an acceptable substitute for Class A3.

The reinforcing for the drilled shafts shall be ASTM A615 Grade 60 deformed steel bars.

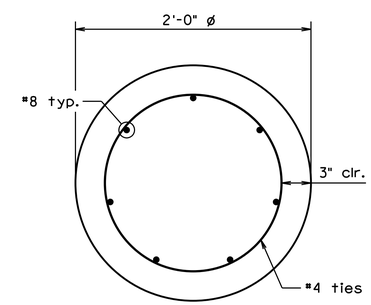
See lighting pole specifications for additional information such as pole, anchor bolts, decorative base, conduit, and electrical details.

* Top of shaft shall project a minimum of 2" above the top of grade

** The anchor bolts, designed by others, shall be galvanized L-type ¾" diameter bolts..



SECTION C-C
Scale: 1½" = 1'-0"
See SECTION D-D for additional information.



SECTION D-D
Scale: 1½" = 1'-0"

Scale: ¾" = 1'-0" unless noted otherwise

PROJECT	SHEET NO.
U000-151-R94	18(1J)

1/23/2026

FINAL PLANS

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)

Roadway Lighting Inventory

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:24:40 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(2)

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

Luminaire Location Summary

Project: Blenheim Boulevard Multimodal Improvements

Pole No.	Sheet No.	Pole Station	Pole Offset/ Location	Align. Bl.	Pole Type	Primary Luminaire Type	Primary Arm Length (FEET)	Primary Mounting Height (FEET)	Secondary Luminaire Type	Secondary Arm Length (Feet)	Secondary Mounting Height (Feet) (C)	Outlet	Foundation Type
1	18(3)	101+56.51	34.59' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
2	18(3)	101+91.43	32.94' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
3	18(3)	102+61.99	31.77' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
4	18(3)	103+20.35	26.59' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
5	18(3)	103+88.75	26.48' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
6	18(3)	104+47.04	22.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
7	18(4)	105+31.08	16.53' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
8	18(4)	105+89.48	16.52' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
9	18(4)	106+50.83	16.59' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
10	18(4)	107+37.88	17.77' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
11	18(4)	108+10.97	16.43' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
12	18(4)	108+27.28	44.56' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
13	18(4)	108+82.70	16.22' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
14	18(4)	108+94.38	36.59' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
15	18(4)	109+47.06	32.68' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
16	18(4)	109+91.92	37.69' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
17	18(4)	110+19.08	16.59' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
18	18(4)	110+84.64	16.47' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
19	18(5)	111+60.12	16.56' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
20	18(5)	112+16.12	16.46' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
21	18(5)	112+84.80	16.49' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
22	18(5)	113+51.26	16.53' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
23	18(5)	114+16.16	16.63' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
24	18(5)	114+82.40	16.53' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
25	18(5)	115+46.66	16.83' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
26	18(5)	115+94.60	16.51' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
27	18(5)	116+37.88	16.19' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
28	18(5)	117+03.75	16.73' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
29	18(5)	117+62.13	16.81' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
30	18(5)	118+34.38	16.52' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
31	18(5)	118+58.96	54.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
32	18(6)	119+08.27	16.50' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
33	18(6)	119+70.18	52.14' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
34	18(6)	119+86.02	16.58' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
35	18(6)	120+28.44	49.44' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
36	18(6)	120+46.46	18.63' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
37	18(6)	120+96.17	23.76' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
38	18(6)	121+30.48	49.13' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
39	18(6)	121+65.07	44.29' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
40	18(6)	122+65.55	50.78' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
41	18(6)	123+50.39	49.28' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
42	18(6)	124+23.54	24.69' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
43	18(6)	124+85.67	20.35' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
44	18(6)	125+39.69	27.38' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
45	18(7)	126+22.16	35.12' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
46	18(7)	127+09.22	16.97' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
47	18(7)	127+89.92	16.55' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
48	18(7)	128+72.74	16.52' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1

FINAL PLANS

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)

Roadway Lighting Inventory

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:25:00 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(2(11))

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

Luminaire Location Summary

Project: Blenheim Boulevard Multimodal Improvements

Pole No.	Sheet No.	Pole Station	Pole Offset/ Location	Align. Bl.	Pole Type	Primary Luminaire Type	Primary Arm Length (FEET)	Primary Mounting Height (FEET)	Secondary Luminaire Type	Secondary Arm Length (Feet)	Secondary Mounting Height (Feet) (C)	Outlet	Foundation Type
49	18(7)	129+47.71	16.53' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
50	18(7)	130+16.81	16.73' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
51	18(7)	130+87.04	16.48' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
52	18(7)	131+56.03	16.50' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
53	18(7)	132+27.07	16.74' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
54	18(7)	132+95.84	17.60' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
55	18(7)	133+23.95	68.08' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
56	18(7)	133+67.08	17.30' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
57	18(8)	134+37.08	17.30' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
58	18(8)	134+92.68	63.68' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
59	18(8)	135+07.88	16.57' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
60	18(8)	135+83.48	17.30' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
61	18(8)	136+53.33	17.22' KT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
62	18(8)	137+21.50	18.72' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
63	18(8)	138+10.89	17.33' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
64	18(8)	138+80.89	17.33' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
65	18(8)	139+50.74	17.44' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
66	18(8)	140+20.95	24.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
67	18(9)	140+91.92	23.73' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
68	18(9)	141+69.03	23.46' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
69	18(9)	142+41.44	17.01' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
70	18(9)	143+09.71	17.32' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
71	18(9)	143+80.49	16.58' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
72	18(9)	144+40.96	25.83' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
73	18(9)	145+27.04	27.33' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
74	18(9)	145+80.81	27.31' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
75	18(9)	146+33.97	27.34' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
76	18(9)	147+25.03	27.61' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
77	18(11)	158+09.00	50.80' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
78	18(9)	147+71.71	28.17' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
79	18(10)	148+47.47	27.33' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
80	18(10)	149+15.66	33.58' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
81	18(10)	149+95.94	30.29' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
82	18(10)	150+72.76	28.33' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
83	18(10)	151+57.73	27.41' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
84	18(10)	152+23.36	27.81' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
85	18(10)	152+89.64	27.67' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
86	18(10)	153+50.69	29.20' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
87	18(10)	154+13.30	27.42' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
88	18(10)	154+87.13	28.32' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
89	18(11)	155+55.72	27.40' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
90	18(11)	156+28.42	30.19' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
91	18(11)	156+94.22	31.17' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
92	18(11)	158+50.98	38.30' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
93	18(11)	159+05.50	38.21' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
94	18(11)	159+53.35	37.79' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
95	18(11)	160+25.47	27.20' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
96	18(11)	160+99.02	27.18' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1

12/10/2025

FINAL PLANS

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)

Roadway Lighting Inventory

Luminaire Location Summary

Project: Blenheim Boulevard Multimodal Improvements

Pole No.	Sheet No.	Pole Station	Pole Offset/ Location	Align. Bl.	Pole Type	Primary Luminaire Type	Primary Arm Length (FEET)	Primary Mounting Height (FEET)	Secondary Luminaire Type	Secondary Arm Length (Feet)	Secondary Mounting Height (Feet) (C)	Outlet	Foundation Type
97	18(11)	161+62.06	27.23' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
98	18(12)	163+06.63	27.50' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
99	18(12)	164+03.04	24.54' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
100	18(12)	164+58.83	26.15' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
101	18(12)	165+27.48	19.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
102	18(12)	166+11.95	16.90' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
103	18(12)	166+82.62	16.50' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
104	18(12)	167+52.50	16.58' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
105	18(12)	168+12.48	16.53' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
106	18(12)	168+87.75	24.52' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
107	18(13)	169+75.02	22.87' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
108	18(13)	170+40.70	16.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
109	18(13)	171+23.21	16.24' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
110	18(13)	171+83.62	16.23' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
111	18(13)	172+54.80	16.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
112	18(13)	173+24.72	17.49' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
113	18(14)	174+64.50	39.95' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
114	18(14)	174+75.44	94.81' LT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
115	18(14)	176+29.03	1.30' LT	Blenheim Blvd	Roadway	Shoebox	6'	32'	Shoebox	6'	32'	No	LF-1
116	18(4)	105+05.82	38.22' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
117	18(4)	105+64.52	36.64' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
118	18(4)	106+36.83	37.25' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
119	18(4)	107+15.37	38.61' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
120	18(4)	108+23.11	28.08' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
121	18(4)	109+11.73	28.90' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
122	18(4)	109+88.07	32.01' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
123	18(4)	110+50.49	22.51' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
124	18(4)	111+44.38	21.20' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
125	18(5)	112+35.59	21.97' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
126	18(5)	112+69.97	21.97' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
127	18(5)	113+35.78	20.91' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
128	18(5)	114+20.99	19.16' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
129	18(5)	114+93.35	18.20' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
130	18(5)	115+47.03	18.39' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
131	18(5)	116+25.58	22.55' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
132	18(5)	116+94.85	38.78' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
133	18(5)	117+49.04	38.48' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
134	18(5)	118+04.79	33.68' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
135	NOT USED			Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
136	18(5)	118+93.20	29.09' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
137	18(6)	119+34.34	51.39' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
138	18(6)	119+94.44	28.39' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
139	18(6)	120+83.05	21.80' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
140	18(6)	121+49.05	34.96' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
141	18(6)	121+82.45	20.28' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
142	18(6)	122+90.79	15.89' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
143	18(6)	123+30.10	48.35' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
144	18(6)	123+75.28	39.06' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:25:25 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(2(2))

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

PROJECT	SHEET NO.
U000-151-R94	18(2(2))

12/10/2025

FINAL PLANS

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)

Roadway Lighting Inventory

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:25:51 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(2(3))

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

Luminaire Location Summary

Project: Blenheim Boulevard Multimodal Improvements

Pole No.	Sheet No.	Pole Station	Pole Offset/ Location	Align. Bl.	Pole Type	Primary Luminaire Type	Primary Arm Length (FEET)	Primary Mounting Height (FEET)	Secondary Luminaire Type	Secondary Arm Length (Feet)	Secondary Mounting Height (Feet) (C)	Outlet	Foundation Type
145	18(6)	124+41.60	16.42' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
146	18(6)	125+10.26	16.44' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
147	18(6)	125+84.90	15.76' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
148	18(7)	126+40.15	31.88' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
149	18(7)	127+18.16	27.33' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
150	18(7)	127+60.55	26.34' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
151	18(7)	128+22.23	21.41' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
152	18(7)	129+03.05	24.95' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
153	18(7)	129+74.88	17.39' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
154	18(7)	130+69.67	16.49' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
155	18(7)	131+46.67	16.46' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
156	18(7)	132+23.31	16.46' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
157	18(7)	132+90.20	16.93' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
158	18(8)	133+79.64	17.28' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
159	18(8)	134+58.63	17.67' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
160	18(8)	135+42.29	17.29' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
161	18(8)	136+21.39	31.30' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
162	18(8)	136+90.35	26.49' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
163	18(8)	137+72.91	22.72' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
164	18(8)	138+24.92	24.57' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
165	18(8)	138+94.79	16.42' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
166	18(8)	139+76.05	16.41' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
167	18(8)	140+47.26	16.51' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
168	18(9)	141+10.61	47.95' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
169	18(9)	141+46.51	48.37' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
170	18(9)	141+81.13	16.42' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
171	18(9)	142+54.12	16.25' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
172	18(9)	143+18.78	18.02' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
173	18(9)	143+92.41	17.93' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
174	18(9)	144+45.34	32.42' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
175	18(9)	145+11.33	48.57' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
176	18(9)	145+36.16	24.95' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
177	18(9)	146+15.10	25.17' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
178	18(9)	147+03.00	27.67' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
179	18(9)	147+89.88	25.60' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
180	18(10)	148+68.65	24.38' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
181	18(12)	162+46.03	22.91' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
182	18(12)	163+91.74	27.35' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
183	18(14)	173+93.68	20.93' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
184	18(14)	174+62.23	40.44' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
185	18(14)	175+54.78	49.84' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
186	18(11)	157+39.01	21.52' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1

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)

Roadway Junction Box Inventory

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:26:13 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(2(4))

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

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align.Bl.
301	18(3)	101+61.84	34.74	LT	Blenheim Blvd
302	18(3)	101+98.83	33.25	LT	Blenheim Blvd
303	18(3)	102+67.19	32.43	LT	Blenheim Blvd
304	18(3)	103+28.75	25.80	LT	Blenheim Blvd
305	18(3)	103+97.14	26.49	LT	Blenheim Blvd
306	18(3)	104+51.81	22.71	LT	Blenheim Blvd
401	18(4)	105+22.05	17.76	LT	Blenheim Blvd
402	18(4)	105+96.78	16.00	LT	Blenheim Blvd
403	18(4)	106+55.68	17.73	LT	Blenheim Blvd
404	18(4)	107+32.09	17.55	LT	Blenheim Blvd
405	18(4)	108+16.37	16.44	LT	Blenheim Blvd
406	18(4)	108+88.21	16.26	LT	Blenheim Blvd
407	18(4)	110+28.69	16.34	LT	Blenheim Blvd
408	18(4)	110+87.14	16.38	LT	Blenheim Blvd
409	18(4)	108+32.22	43.94	LT	Blenheim Blvd
410	18(4)	108+63.96	40.31	LT	Blenheim Blvd
411	18(4)	108+80.49	37.79	LT	Blenheim Blvd
412	18(4)	108+89.44	37.21	LT	Blenheim Blvd
413	18(4)	109+42.62	30.86	LT	Blenheim Blvd
414	18(4)	109+86.36	37.47	LT	Blenheim Blvd
415	18(4)	105+10.32	41.02	RT	Blenheim Blvd
416	18(4)	105+60.04	40.11	RT	Blenheim Blvd
417	18(4)	106+34.40	41.72	RT	Blenheim Blvd
418	18(4)	107+24.75	41.16	RT	Blenheim Blvd
419	18(4)	107+66.65	41.41	RT	Blenheim Blvd
420	18(4)	108+15.63	29.00	RT	Blenheim Blvd
421	18(4)	108+52.95	29.16	RT	Blenheim Blvd
422	18(4)	109+04.86	28.33	RT	Blenheim Blvd
423	18(4)	109+98.25	31.36	RT	Blenheim Blvd
424	18(4)	110+25.43	29.76	RT	Blenheim Blvd
425	18(4)	110+56.15	21.73	RT	Blenheim Blvd
426	18(4)	111+49.27	23.51	RT	Blenheim Blvd
427	Not Used	Not Used	Not Used	Not Used	Not Used
428	Not Used	Not Used	Not Used	Not Used	Not Used
501	18(5)	111+48.53	16.91	LT	Blenheim Blvd
502	18(5)	112+08.92	16.79	LT	Blenheim Blvd
503	18(5)	112+78.26	16.53	LT	Blenheim Blvd
504	18(5)	113+43.34	17.28	LT	Blenheim Blvd
505	18(5)	114+08.91	16.53	LT	Blenheim Blvd
506	18(5)	114+86.92	17.15	LT	Blenheim Blvd
507	18(5)	115+44.15	17.19	LT	Blenheim Blvd
508	18(5)	115+90.37	17.29	LT	Blenheim Blvd

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align.Bl.
509	18(5)	116+33.67	17.74	LT	Blenheim Blvd
510	18(5)	116+91.25	16.57	LT	Blenheim Blvd
511	18(5)	117+55.86	16.50	LT	Blenheim Blvd
512	18(5)	118+27.87	17.58	LT	Blenheim Blvd
513	18(5)	118+59.86	17.04	LT	Blenheim Blvd
514	18(5)	118+62.49	50.85	LT	Blenheim Blvd
515	18(5)	112+40.15	24.67	RT	Blenheim Blvd
516	18(5)	112+75.45	24.28	RT	Blenheim Blvd
517	18(5)	113+41.39	24.08	LT	Blenheim Blvd
518	18(5)	114+27.37	21.90	RT	Blenheim Blvd
519	18(5)	114+99.57	20.39	RT	Blenheim Blvd
520	18(5)	115+53.52	19.75	RT	Blenheim Blvd
521	18(5)	116+31.64	24.10	RT	Blenheim Blvd
522	18(5)	116+89.21	25.80	RT	Blenheim Blvd
523	18(5)	117+47.31	42.09	RT	Blenheim Blvd
524	18(5)	117+73.74	28.83	RT	Blenheim Blvd
525	18(5)	118+12.35	36.56	RT	Blenheim Blvd
526	18(5)	118+98.66	26.16	RT	Blenheim Blvd
527	Not Used	Not Used	Not Used	Not Used	Not Used
528	Not Used	Not Used	Not Used	Not Used	Not Used
529	Not Used	Not Used	Not Used	Not Used	Not Used
530	Not Used	Not Used	Not Used	Not Used	Not Used
601	18(6)	119+03.62	17.48	LT	Blenheim Blvd
602	18(6)	119+81.18	17.67	LT	Blenheim Blvd
603	18(6)	120+41.95	19.54	LT	Blenheim Blvd
604	18(6)	120+91.59	24.63	LT	Blenheim Blvd
605	18(6)	121+65.63	26.51	LT	Blenheim Blvd
606	18(6)	122+42.44	26.93	LT	Blenheim Blvd
607	18(6)	123+33.10	27.32	LT	Blenheim Blvd
608	18(6)	124+16.02	29.52	LT	Blenheim Blvd
609	18(6)	124+79.67	21.24	LT	Blenheim Blvd
610	18(6)	125+44.33	26.58	LT	Blenheim Blvd
611	18(6)	119+69.86	47.85	LT	Blenheim Blvd
612	18(6)	119+87.11	39.25	LT	Blenheim Blvd
613	18(6)	120+03.84	37.00	LT	Blenheim Blvd
614	18(6)	120+23.44	49.50	LT	Blenheim Blvd
615	18(6)	121+30.79	44.07	LT	Blenheim Blvd
616	18(6)	121+60.21	41.45	LT	Blenheim Blvd
617	18(6)	122+60.07	48.95	LT	Blenheim Blvd
618	18(6)	123+43.64	48.84	LT	Blenheim Blvd
619	18(6)	119+33.05	45.29	RT	Blenheim Blvd
620	18(6)	119+84.69	32.54	RT	Blenheim Blvd

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align.Bl.
621	18(6)	120+89.96	20.84	RT	Blenheim Blvd
622	18(6)	121+50.24	38.98	RT	Blenheim Blvd
623	18(6)	121+79.48	21.59	RT	Blenheim Blvd
624	18(6)	122+95.21	15.67	RT	Blenheim Blvd
625	18(6)	123+30.43	43.68	RT	Blenheim Blvd
626	18(6)	123+79.12	34.14	RT	Blenheim Blvd
627	18(6)	124+41.82	20.78	RT	Blenheim Blvd
628	18(6)	125+12.21	20.06	RT	Blenheim Blvd
629	18(6)	125+83.20	20.81	RT	Blenheim Blvd
630	Not Used	Not Used	Not Used	Not Used	Not Used
631	Not Used	Not Used	Not Used	Not Used	Not Used
632	Not Used	Not Used	Not Used	Not Used	Not Used
701	Not Used	Not Used	Not Used	Not Used	Not Used
702	Not Used	Not Used	Not Used	Not Used	Not Used
703	18(7)	127+05.67	16.36	LT	Blenheim Blvd
704	18(7)	127+82.61	17.09	LT	Blenheim Blvd
705	18(7)	128+67.01	17.15	LT	Blenheim Blvd
706	18(7)	129+41.10	17.09	LT	Blenheim Blvd
707	18(7)	130+10.03	16.00	LT	Blenheim Blvd
708	18(7)	130+91.96	16.04	LT	Blenheim Blvd
709	18(7)	131+50.28	15.69	LT	Blenheim Blvd
710	18(7)	132+20.97	17.77	LT	Blenheim Blvd
711	18(7)	133+02.44	17.38	LT	Blenheim Blvd
712	18(7)	133+60.47	18.48	LT	Blenheim Blvd
713	18(7)	126+26.58	34.73	LT	Blenheim Blvd
714	18(7)	133+29.37	68.96	LT	Blenheim Blvd
715	18(7)	133+55.76	36.38	LT	Blenheim Blvd
716	18(7)	133+72.86	35.99	LT	Blenheim Blvd
717	18(7)	126+35.40	28.60	RT	Blenheim Blvd
718	18(7)	127+11.05	28.99	RT	Blenheim Blvd
719	18(7)	127+55.34	26.25	RT	Blenheim Blvd
720	18(7)	128+28.18	22.97	RT	Blenheim Blvd
721	18(7)	128+97.77	25.37	RT	Blenheim Blvd
722	18(7)	129+94.06	31.14	RT	Blenheim Blvd
723	18(7)	130+46.07	30.68	RT	Blenheim Blvd
724	18(7)	131+51.59	16.48	RT	Blenheim Blvd
725	18(7)	132+27.89	16.51	RT	Blenheim Blvd
726	18(7)	132+94.14	17.03	RT	Blenheim Blvd
727	18(7)	133+75.42	17.38	RT	Blenheim Blvd
728	Not Used	Not Used	Not Used	Not Used	Not Used
729	Not Used	Not Used	Not Used	Not Used	Not Used
730	Not Used	Not Used	Not Used	Not Used	Not Used

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)

Roadway Junction Box Inventory

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:26:33 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(2(5))

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

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align. Bl.
801	18(8)	134+30.76	18.81	LT	Blenheim Blvd
802	18(8)	134+94.14	60.33	LT	Blenheim Blvd
803	18(8)	135+04.59	19.49	LT	Blenheim Blvd
804	18(8)	135+79.20	19.53	LT	Blenheim Blvd
805	18(8)	136+46.89	19.08	LT	Blenheim Blvd
806	18(8)	137+12.05	20.00	LT	Blenheim Blvd
807	18(8)	138+07.35	19.06	LT	Blenheim Blvd
808	18(8)	138+70.30	19.39	LT	Blenheim Blvd
809	18(8)	139+45.11	19.70	LT	Blenheim Blvd
810	18(8)	140+14.91	24.26	LT	Blenheim Blvd
811	18(8)	134+63.18	17.16	RT	Blenheim Blvd
812	18(8)	135+49.35	17.75	RT	Blenheim Blvd
813	18(8)	136+21.20	27.28	RT	Blenheim Blvd
814	18(8)	136+83.98	27.94	RT	Blenheim Blvd
815	18(8)	137+78.30	23.50	RT	Blenheim Blvd
816	18(8)	138+31.73	25.67	RT	Blenheim Blvd
817	18(8)	139+00.99	15.80	RT	Blenheim Blvd
818	18(8)	139+83.66	17.61	RT	Blenheim Blvd
819	18(8)	140+56.16	17.05	RT	Blenheim Blvd
820	Not Used	Not Used	Not Used	Not Used	Not Used
821	Not Used	Not Used	Not Used	Not Used	Not Used
822	Not Used	Not Used	Not Used	Not Used	Not Used
823	Not Used	Not Used	Not Used	Not Used	Not Used
824	Not Used	Not Used	Not Used	Not Used	Not Used
825	Not Used	Not Used	Not Used	Not Used	Not Used
826	Not Used	Not Used	Not Used	Not Used	Not Used
901	18(9)	140+85.77	24.50	LT	Blenheim Blvd
902	18(9)	141+64.08	24.94	LT	Blenheim Blvd
903	18(9)	142+34.85	17.59	LT	Blenheim Blvd
904	18(9)	143+04.84	17.79	LT	Blenheim Blvd
905	18(9)	143+74.96	16.14	LT	Blenheim Blvd
906	18(9)	144+45.37	23.57	LT	Blenheim Blvd
907	18(9)	144+95.88	64.29	LT	Blenheim Blvd
908	18(9)	144+98.73	47.42	LT	Blenheim Blvd
909	18(9)	145+21.89	26.95	LT	Blenheim Blvd
910	18(9)	145+76.34	26.67	LT	Blenheim Blvd
911	18(9)	146+28.73	26.65	LT	Blenheim Blvd
912	18(9)	147+18.86	26.28	LT	Blenheim Blvd
913	18(9)	147+93.30	28.20	LT	Blenheim Blvd
914	18(9)	141+10.70	43.85	RT	Blenheim Blvd
915	18(9)	141+46.46	43.33	RT	Blenheim Blvd
916	18(9)	141+90.48	15.99	RT	Blenheim Blvd

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align. Bl.
917	18(9)	142+48.36	16.56	RT	Blenheim Blvd
918	18(9)	143+18.98	25.18	RT	Blenheim Blvd
919	18(9)	143+87.23	17.77	RT	Blenheim Blvd
920	18(9)	144+43.45	37.11	RT	Blenheim Blvd
921	18(9)	144+57.48	50.34	RT	Blenheim Blvd
922	18(9)	145+02.60	48.95	RT	Blenheim Blvd
923	18(9)	145+40.57	30.57	RT	Blenheim Blvd
924	18(9)	146+18.79	30.91	RT	Blenheim Blvd
925	18(9)	147+07.30	31.26	RT	Blenheim Blvd
926	18(9)	147+91.68	30.58	RT	Blenheim Blvd
927	Not Used	Not Used	Not Used	Not Used	Not Used
928	Not Used	Not Used	Not Used	Not Used	Not Used
1001	18(10)	148+41.13	26.42	LT	Blenheim Blvd
1002	18(10)	149+10.97	35.36	LT	Blenheim Blvd
1003	18(10)	149+91.08	31.07	LT	Blenheim Blvd
1004	18(10)	150+67.63	27.00	LT	Blenheim Blvd
1005	18(10)	151+62.74	27.50	LT	Blenheim Blvd
1006	18(10)	152+18.40	27.29	LT	Blenheim Blvd
1007	18(10)	152+83.11	27.48	LT	Blenheim Blvd
1008	18(10)	153+44.08	28.74	LT	Blenheim Blvd
1009	18(10)	154+04.96	27.54	LT	Blenheim Blvd
1010	18(10)	154+80.07	29.83	LT	Blenheim Blvd
1011	18(10)	148+64.44	24.66	RT	Blenheim Blvd
1012	Not Used	Not Used	Not Used	Not Used	Not Used
1101	18(11)	155+49.86	26.97	LT	Blenheim Blvd
1102	18(11)	156+19.56	30.51	LT	Blenheim Blvd
1103	18(11)	156+98.25	31.19	LT	Blenheim Blvd
1104	18(11)	157+97.98	37.19	LT	Blenheim Blvd
1105	18(11)	158+13.40	51.07	LT	Blenheim Blvd
1106	18(11)	158+40.28	37.58	LT	Blenheim Blvd
1107	18(11)	158+98.70	37.46	LT	Blenheim Blvd
1108	18(11)	159+46.78	37.46	LT	Blenheim Blvd
1109	18(11)	160+20.19	27.22	LT	Blenheim Blvd
1110	18(11)	161+15.03	26.56	LT	Blenheim Blvd
1111	18(11)	161+56.62	26.55	LT	Blenheim Blvd
1112	18(11)	156+96.60	21.52	RT	Blenheim Blvd
1113	18(11)	157+32.62	24.94	RT	Blenheim Blvd
1114	18(11)	157+70.05	26.73	RT	Blenheim Blvd
1115	18(11)	157+88.00	26.39	RT	Blenheim Blvd
1201	18(12)	162+40.53	26.57	LT	Blenheim Blvd
1202	18(12)	163+09.88	29.06	LT	Blenheim Blvd
1203	18(12)	163+84.99	27.11	LT	Blenheim Blvd

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align. Bl.
1204	18(12)	164+53.21	26.07	LT	Blenheim Blvd
1205	18(12)	165+21.71	20.34	LT	Blenheim Blvd
1206	18(12)	166+02.83	17.98	LT	Blenheim Blvd
1207	18(12)	166+76.17	17.34	LT	Blenheim Blvd
1208	18(12)	167+46.65	17.46	LT	Blenheim Blvd
1209	18(12)	168+06.79	15.49	LT	Blenheim Blvd
1210	18(12)	168+82.30	23.41	LT	Blenheim Blvd
1211	18(12)	162+45.83	18.87	RT	Blenheim Blvd
1212	18(12)	163+67.97	24.72	RT	Blenheim Blvd
1213	Not Used	Not Used	Not Used	Not Used	Not Used
1214	Not Used	Not Used	Not Used	Not Used	Not Used
1215	Not Used	Not Used	Not Used	Not Used	Not Used
1216	Not Used	Not Used	Not Used	Not Used	Not Used
1301	18(13)	170+52.01	44.55	LT	Blenheim Blvd
1302	18(13)	170+67.99	44.61	LT	Blenheim Blvd
1303	18(13)	169+69.52	23.86	LT	Blenheim Blvd
1304	18(13)	170+34.61	15.53	LT	Blenheim Blvd
1305	18(13)	171+18.11	15.46	LT	Blenheim Blvd
1306	18(13)	171+77.34	15.65	LT	Blenheim Blvd
1307	18(13)	172+47.16	15.59	LT	Blenheim Blvd
1308	18(13)	173+18.45	16.70	LT	Blenheim Blvd
1401	18(14)	173+89.57	20.62	LT	Blenheim Blvd
1402	18(14)	174+68.25	41.84	LT	Blenheim Blvd
1403	18(14)	174+75.72	90.47	LT	Blenheim Blvd
1404	18(14)	175+51.32	50.93	RT	Blenheim Blvd
1405	18(14)	176+25.10	0.78	RT	Blenheim Blvd
1406	18(14)	174+66.81	42.16	RT	Blenheim Blvd

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)

Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:26:59 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

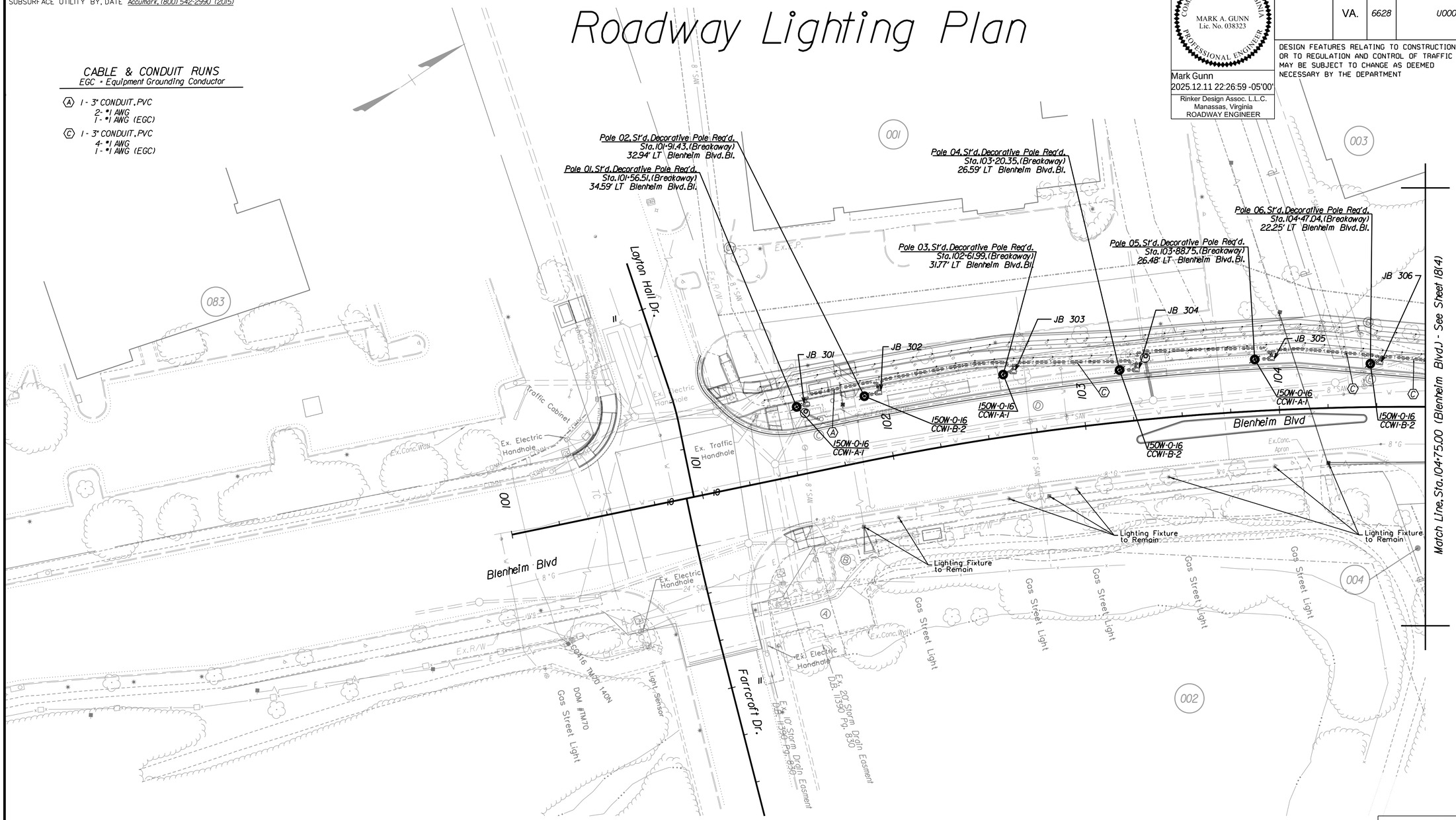
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(3)

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

CABLE & CONDUIT RUNS
EGC = Equipment Grounding Conductor

(A) 1 - 3" CONDUIT, PVC
2- #1 AWG
1 - #1 AWG (EGC)

(C) 1 - 3" CONDUIT, PVC
4- #1 AWG
1 - #1 AWG (EGC)



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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(3)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1O - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	3A
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(3)

FINAL PLANS

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)

Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:27:34 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(4)

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

CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

(A) 1 - 3" CONDUIT, PVC
2- #1 AWG
1 - #1 AWG (EGC)

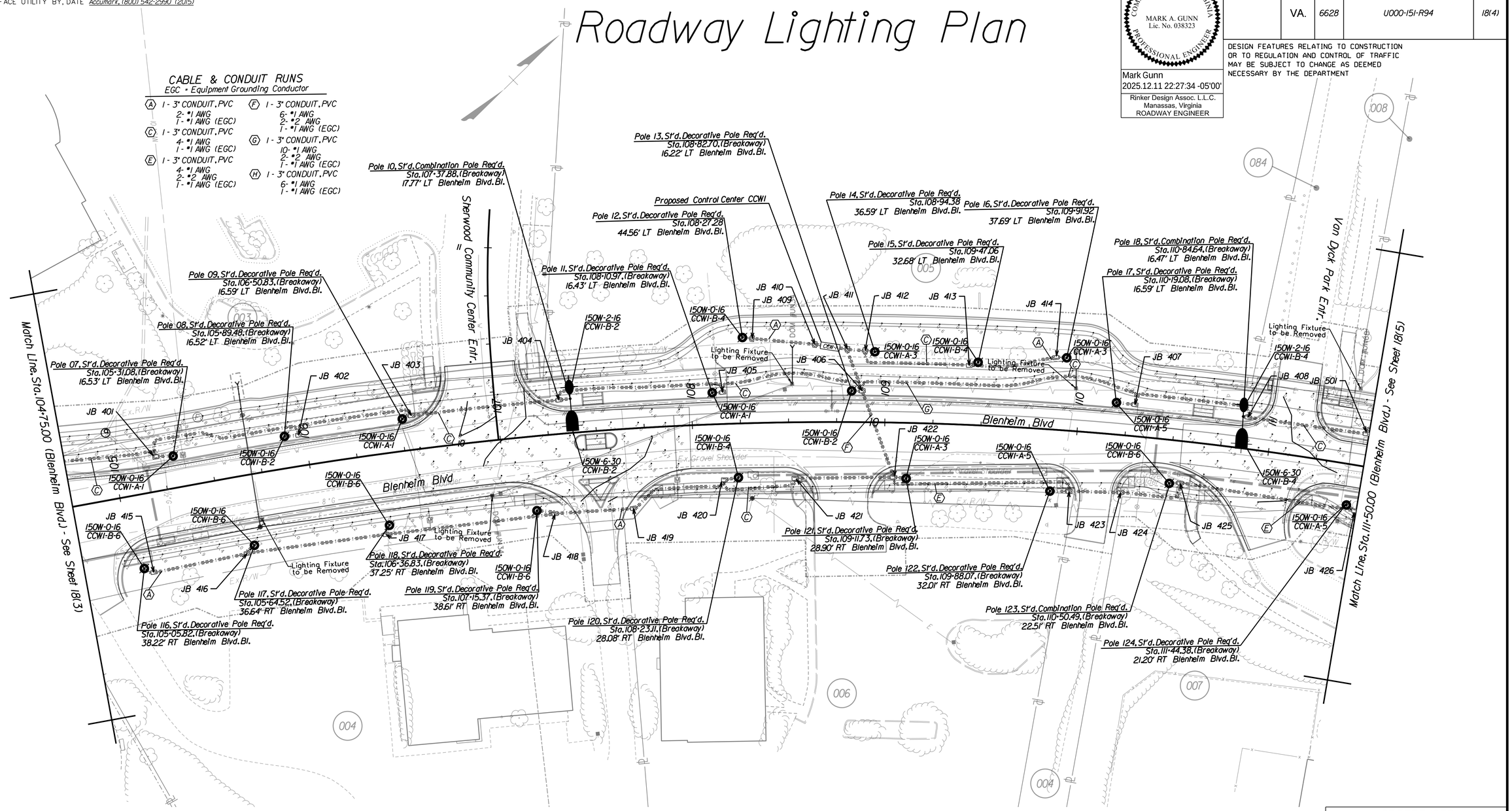
(C) 1 - 3" CONDUIT, PVC
4- #1 AWG
1 - #1 AWG (EGC)

(E) 1 - 3" CONDUIT, PVC
4- #1 AWG
2- #2 AWG
1 - #1 AWG (EGC)

(F) 1 - 3" CONDUIT, PVC
6- #1 AWG
2- #2 AWG
1 - #1 AWG (EGC)

(G) 1 - 3" CONDUIT, PVC
10- #1 AWG
2- #2 AWG
1 - #1 AWG (EGC)

(H) 1 - 3" CONDUIT, PVC
6- #1 AWG
1 - #1 AWG (EGC)



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

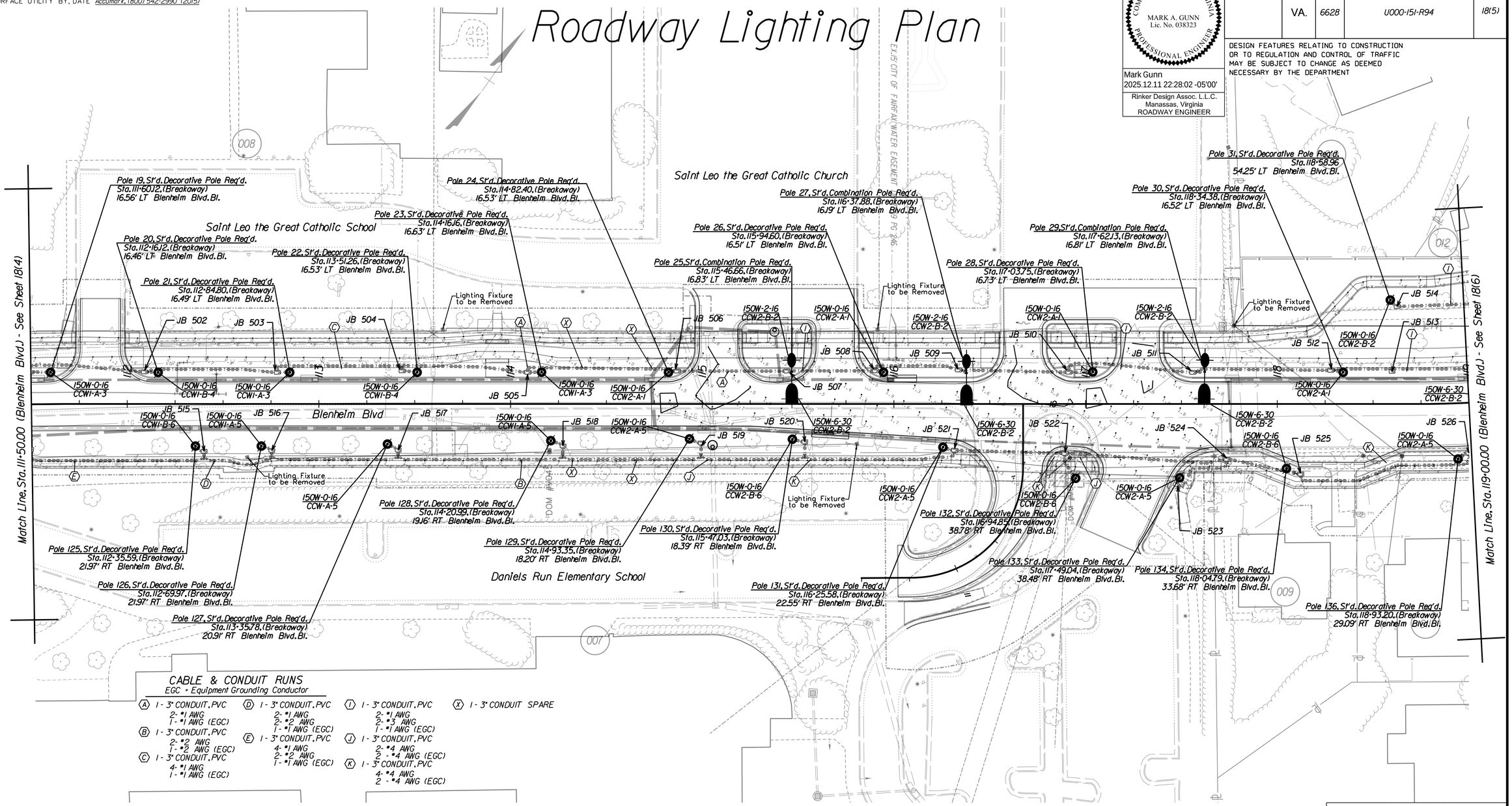
Survey Control Data Sheet	1F
Geometric Data Sheet	1G(4)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph.1 & Ph.2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	4A
Profile Entrances	4B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(4)

FINAL PLANS

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)

Roadway Lighting Plan



CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

- (A) 1 - 3" CONDUIT, PVC
  - 2 - #1 AWG
  - 1 - #1 AWG (EGC)
- (B) 1 - 3" CONDUIT, PVC
  - 2 - #2 AWG
  - 1 - #2 AWG (EGC)
- (C) 1 - 3" CONDUIT, PVC
  - 4 - #1 AWG
  - 1 - #1 AWG (EGC)
- (D) 1 - 3" CONDUIT, PVC
  - 2 - #1 AWG
  - 2 - #2 AWG
  - 1 - #1 AWG (EGC)
- (E) 1 - 3" CONDUIT, PVC
  - 4 - #1 AWG
  - 2 - #2 AWG
  - 1 - #1 AWG (EGC)
- (I) 1 - 3" CONDUIT, PVC
  - 2 - #1 AWG
  - 2 - #3 AWG
  - 1 - #1 AWG (EGC)
- (J) 1 - 3" CONDUIT, PVC
  - 2 - #4 AWG
  - 2 - #4 AWG (EGC)
- (K) 1 - 3" CONDUIT, PVC
  - 4 - #4 AWG
  - 2 - #4 AWG (EGC)
- (X) 1 - 3" CONDUIT SPARE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:28:02 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(5)

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(5)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	5A
Profile Entrances	5B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

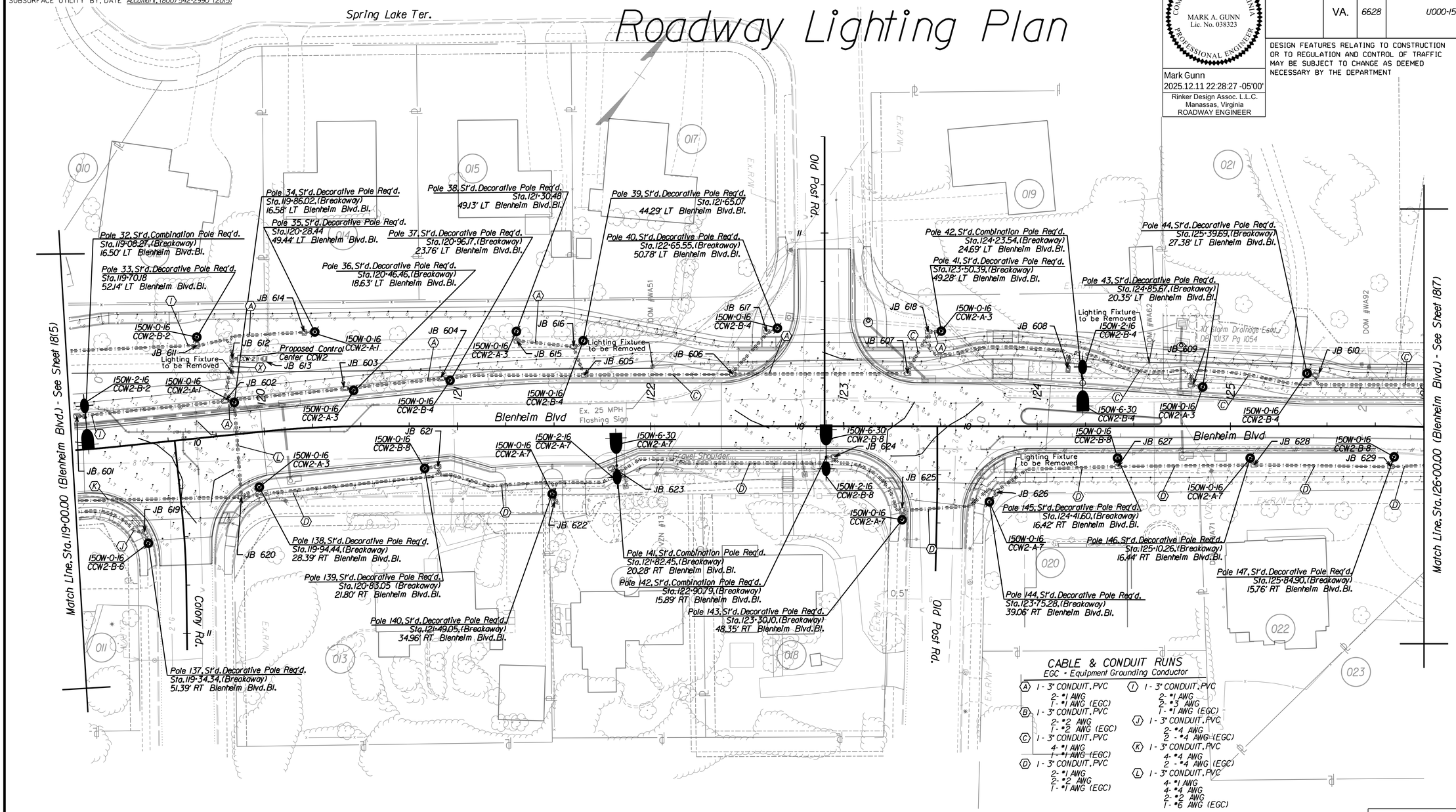
SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(5)

12/10/2025

FINAL PLANS

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)

Roadway Lighting Plan



CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

(A) 1 - 3" CONDUIT, PVC
- 2 - #1 AWG
- 1 - #1 AWG (EGC)

(B) 1 - 3" CONDUIT, PVC
- 2 - #2 AWG
- 1 - #2 AWG (EGC)

(C) 1 - 3" CONDUIT, PVC
- 4 - #1 AWG
- 1 - #1 AWG (EGC)

(D) 1 - 3" CONDUIT, PVC
- 2 - #1 AWG
- 2 - #2 AWG
- 1 - #1 AWG (EGC)

(I) 1 - 3" CONDUIT, PVC
- 2 - #1 AWG
- 2 - #3 AWG
- 1 - #1 AWG (EGC)

(J) 1 - 3" CONDUIT, PVC
- 2 - #4 AWG
- 2 - #4 AWG (EGC)

(K) 1 - 3" CONDUIT, PVC
- 4 - #4 AWG
- 2 - #4 AWG (EGC)

(L) 1 - 3" CONDUIT, PVC
- 4 - #1 AWG
- 4 - #4 AWG
- 2 - #2 AWG
- 1 - #6 AWG (EGC)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:28:27 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(6)

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

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(6)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	6A
Profile Entrances	6B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	18(6)

12/10/2025

FINAL PLANS

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)

Roadway Lighting Plan

CABLE & CONDUIT RUNS

EGC - Equipment Grounding Conductor

- (A) 1 - 3" CONDUIT, PVC
  2- #1 AWG
  1 - #1 AWG (EGC)
- (B) 1 - 3" CONDUIT, PVC
  2- #2 AWG
  1 - #2 AWG (EGC)
- (C) 1 - 3" CONDUIT, PVC
  4- #1 AWG
  1 - #1 AWG (EGC)
- (D) 1 - 3" CONDUIT, PVC
  2- #1 AWG
  2- #2 AWG
  1 - #1 AWG (EGC)
- (M) 1 - 3" CONDUIT, PVC
  4- #2 AWG
  2 - #2 AWG (EGC)
- (N) 1 - 3" CONDUIT, PVC
  6- #2 AWG
  1- #6 AWG (EGC)
  1 - #2 AWG (EGC)
- (O) 1 - 3" CONDUIT, PVC
  2- #2 AWG
  2- #3 AWG
  2 - #2 AWG (EGC)
- (P) 1 - 3" CONDUIT, PVC
  4- #2 AWG
  2- #3 AWG
  1 - #2 AWG (EGC)
- (X) 1 - 3" CONDUIT SPARE

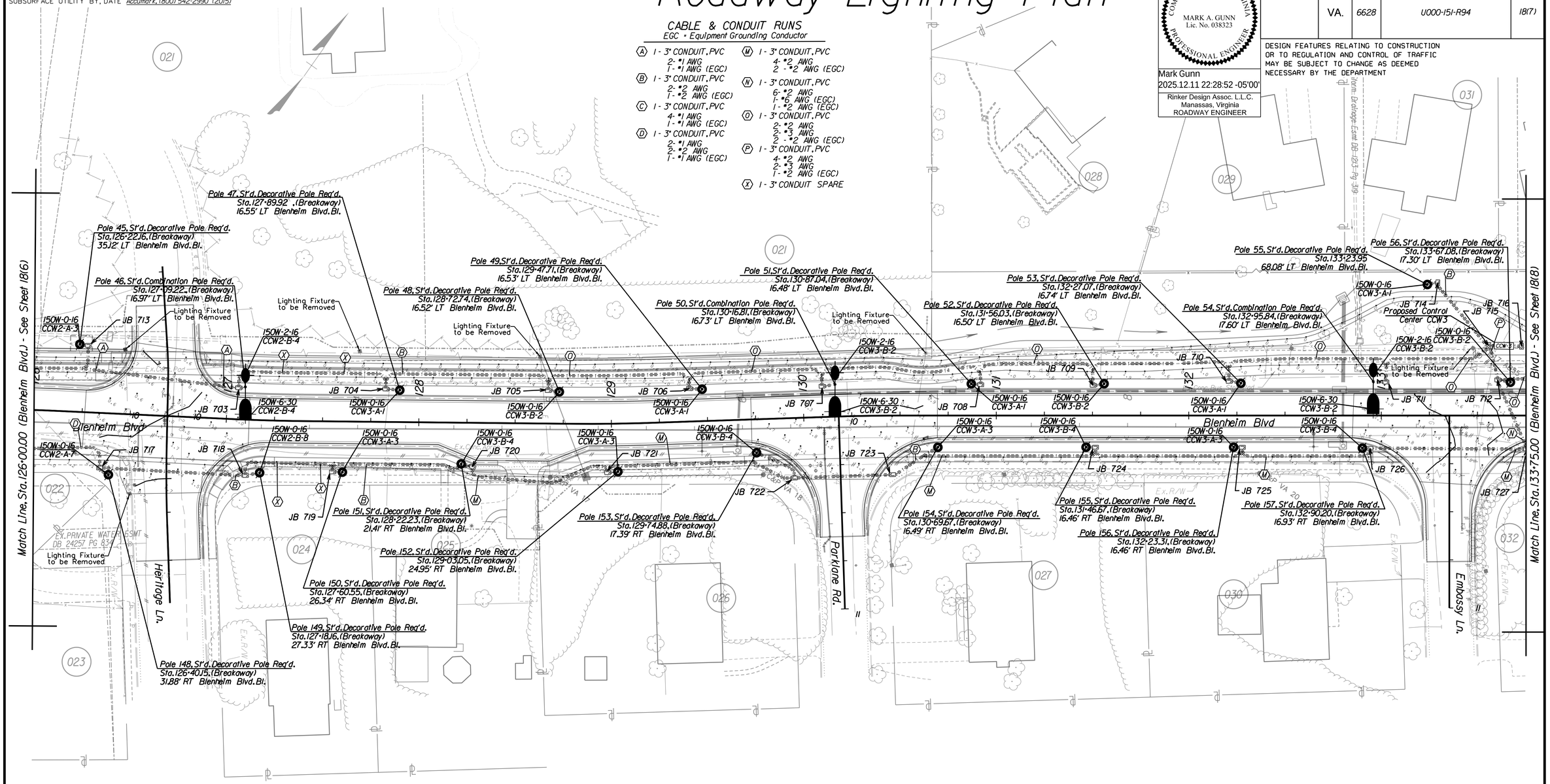
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:28:52 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(7)

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



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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(7)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	7A
Profile Side Roads	7B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(7)

12/10/2025

FINAL PLANS

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)

Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:29:33 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(8)

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

CABLE & CONDUIT RUNS

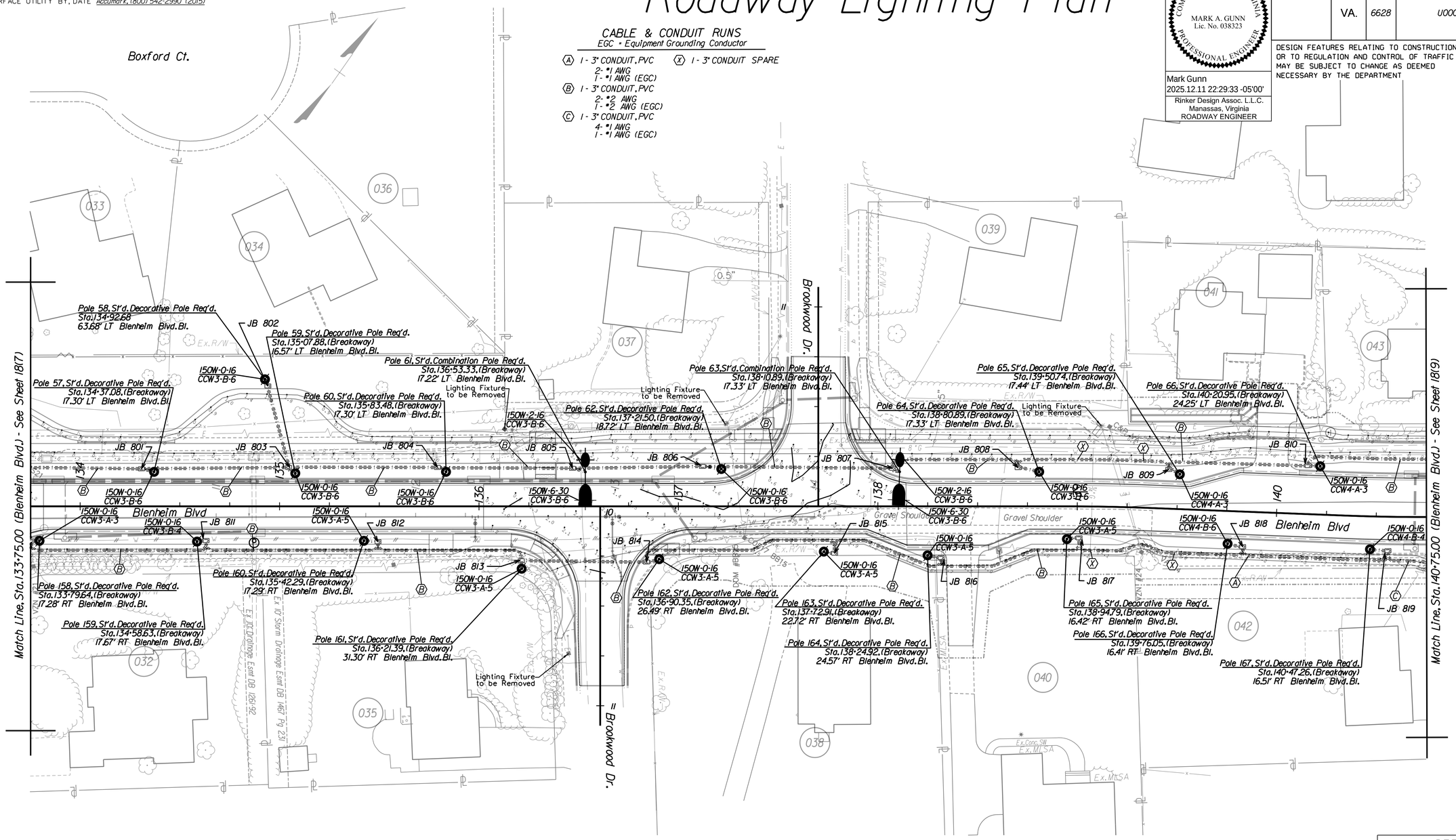
EGC = Equipment Grounding Conductor

(A) 1 - 3" CONDUIT, PVC
2- #1 AWG
1 - #1 AWG (EGC)

(B) 1 - 3" CONDUIT, PVC
2- #2 AWG
1 - #2 AWG (EGC)

(C) 1 - 3" CONDUIT, PVC
4- #1 AWG
1 - #1 AWG (EGC)

(X) 1 - 3" CONDUIT SPARE



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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(8)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	8A
Profile Brookwood Drive	8B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(8)

12/10/2025

FINAL PLANS

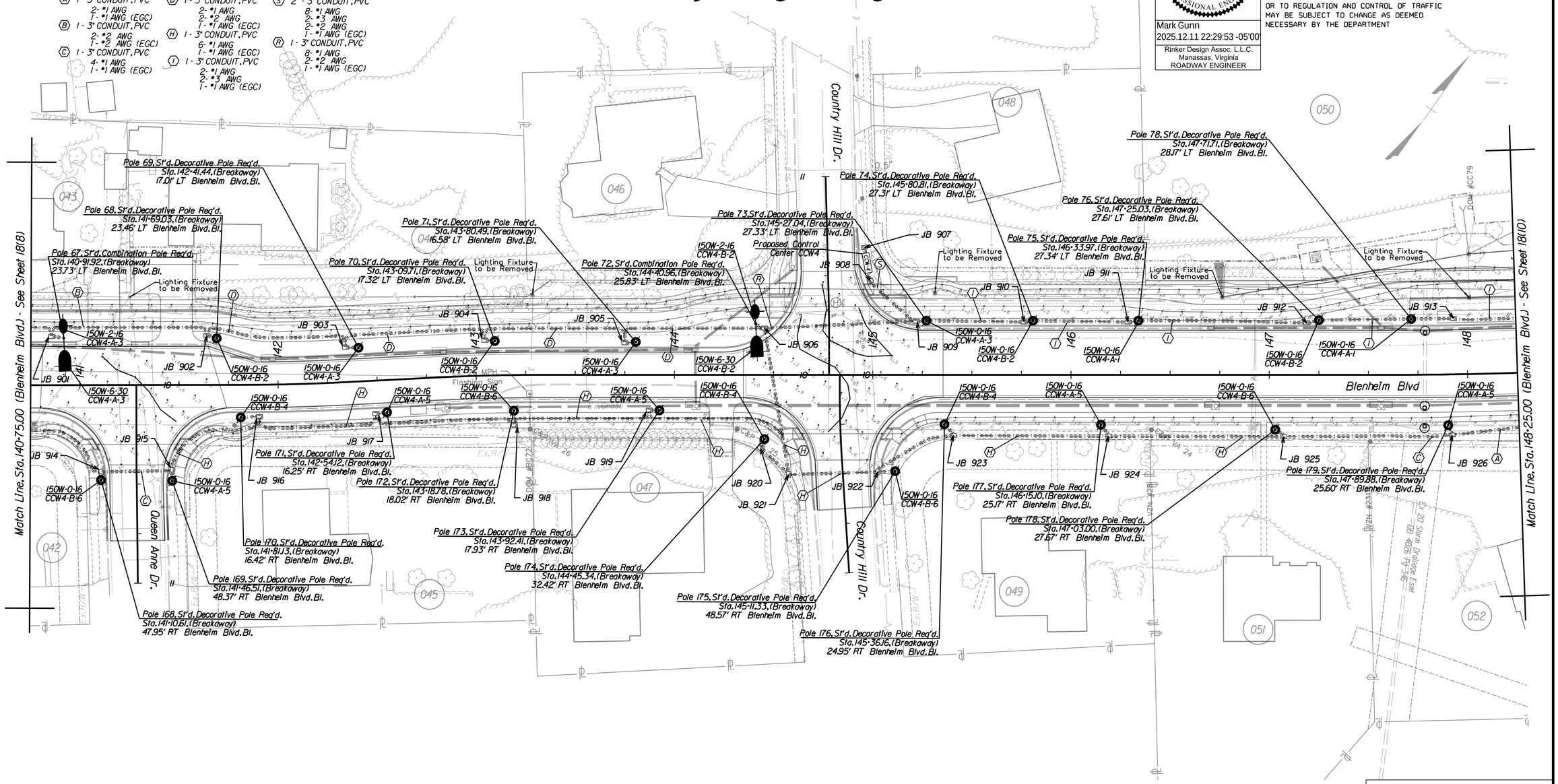
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

Roadway Lighting Plan

CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

- (A) 1 - 3" CONDUIT, PVC; 2 - #1 AWG; 1 - #1 AWG (EGC)
- (B) 1 - 3" CONDUIT, PVC; 2 - #2 AWG; 1 - #2 AWG (EGC)
- (C) 1 - 3" CONDUIT, PVC; 4 - #1 AWG; 1 - #1 AWG (EGC)
- (D) 1 - 3" CONDUIT, PVC; 2 - #1 AWG; 2 - #2 AWG; 1 - #1 AWG (EGC)
- (H) 1 - 3" CONDUIT, PVC; 6 - #1 AWG; 1 - #1 AWG (EGC)
- (I) 1 - 3" CONDUIT, PVC; 2 - #1 AWG; 2 - #3 AWG; 1 - #1 AWG (EGC)
- (S) 2 - 3" CONDUIT, PVC; 8 - #1 AWG; 2 - #3 AWG; 2 - #2 AWG; 1 - #1 AWG (EGC)
- (R) 1 - 3" CONDUIT, PVC; 8 - #1 AWG; 2 - #2 AWG; 1 - #1 AWG (EGC)



COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:29:53 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(9)

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

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(9)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	9A
Profile Side Roads	9B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	18(9)

FINAL PLANS

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)

Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:30:25 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

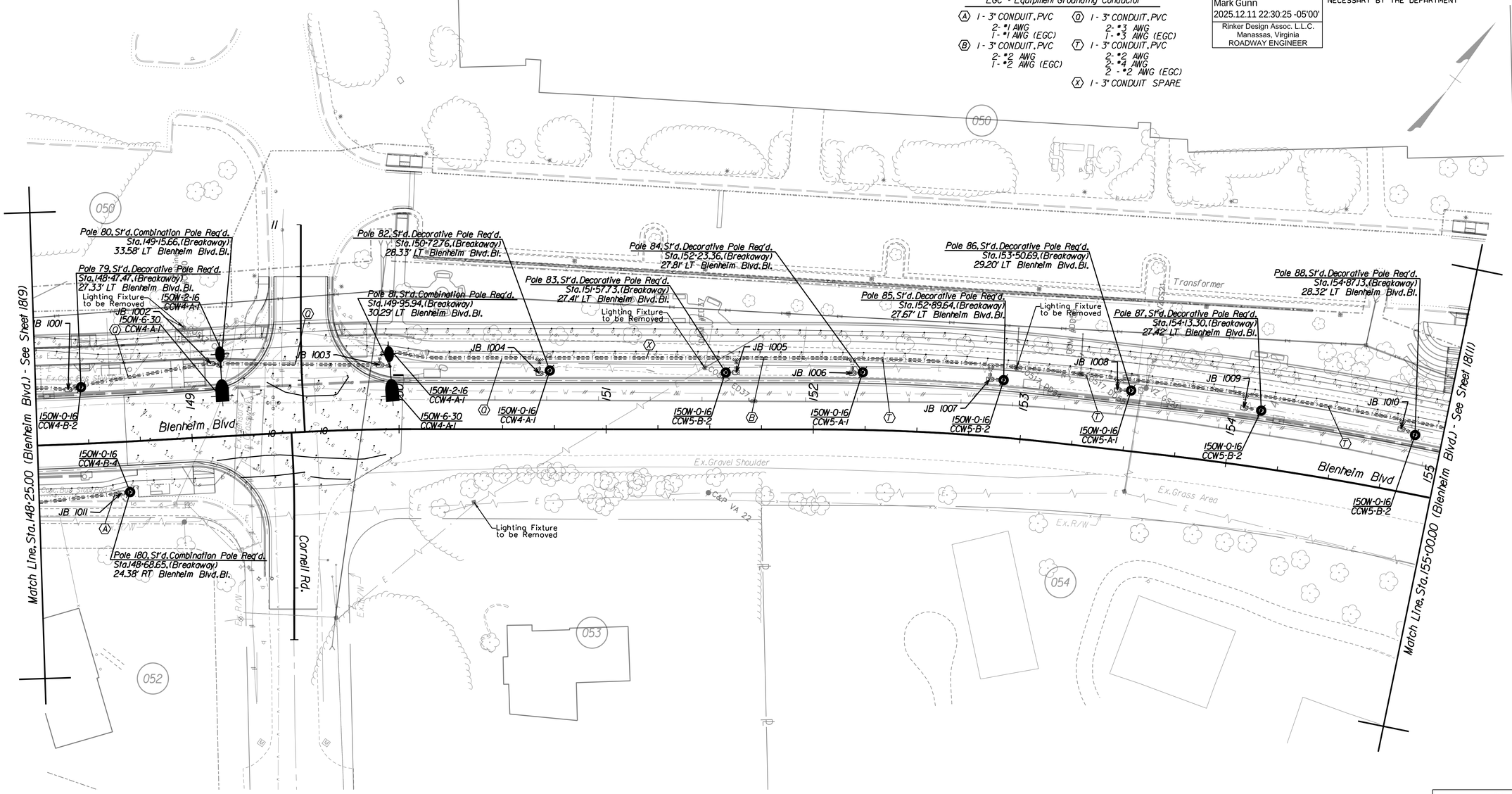
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(10)

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

CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

- (A) 1 - 3" CONDUIT, PVC
  - 2- #1 AWG
  - 1- #1 AWG (EGC)
- (B) 1 - 3" CONDUIT, PVC
  - 2- #2 AWG
  - 1- #2 AWG (EGC)
- (Q) 1 - 3" CONDUIT, PVC
  - 2- #3 AWG
  - 1- #3 AWG (EGC)
- (T) 1 - 3" CONDUIT, PVC
  - 2- #2 AWG
  - 2- #4 AWG
  - 2 - #2 AWG (EGC)
- (X) 1 - 3" CONDUIT SPARE



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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(10)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	10A
Profile Cornell Rd., Entrance	10B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	18(10)

12/10/2025

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
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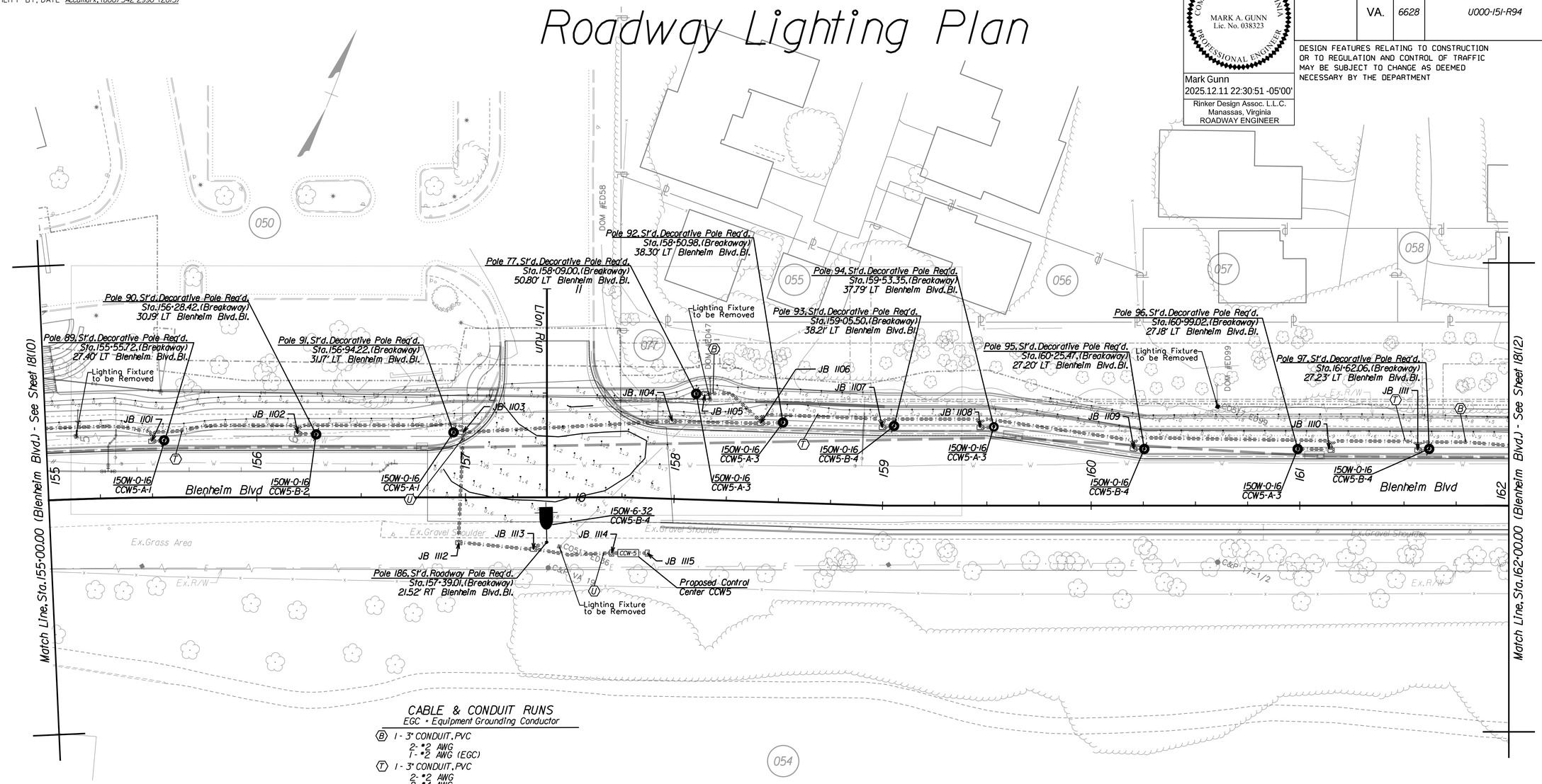
Roadway Lighting Plan



CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

(B) 1 - 3" CONDUIT, PVC
- 2- #2 AWG
- 1- #2 AWG (EGC)

(T) 1 - 3" CONDUIT, PVC
- 2- #2 AWG
- 2- #4 AWG
- 2 - #2 AWG (EGC)

(U) 1 - 3" CONDUIT, PVC
- 4- #4 AWG
- 4- #2 AWG
- 1- #2 AWG (EGC)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:30:51 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(11)

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

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(11)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	11A
Profile Lion Run	11B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	18(11)

12/10/2025

FINAL PLANS

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)

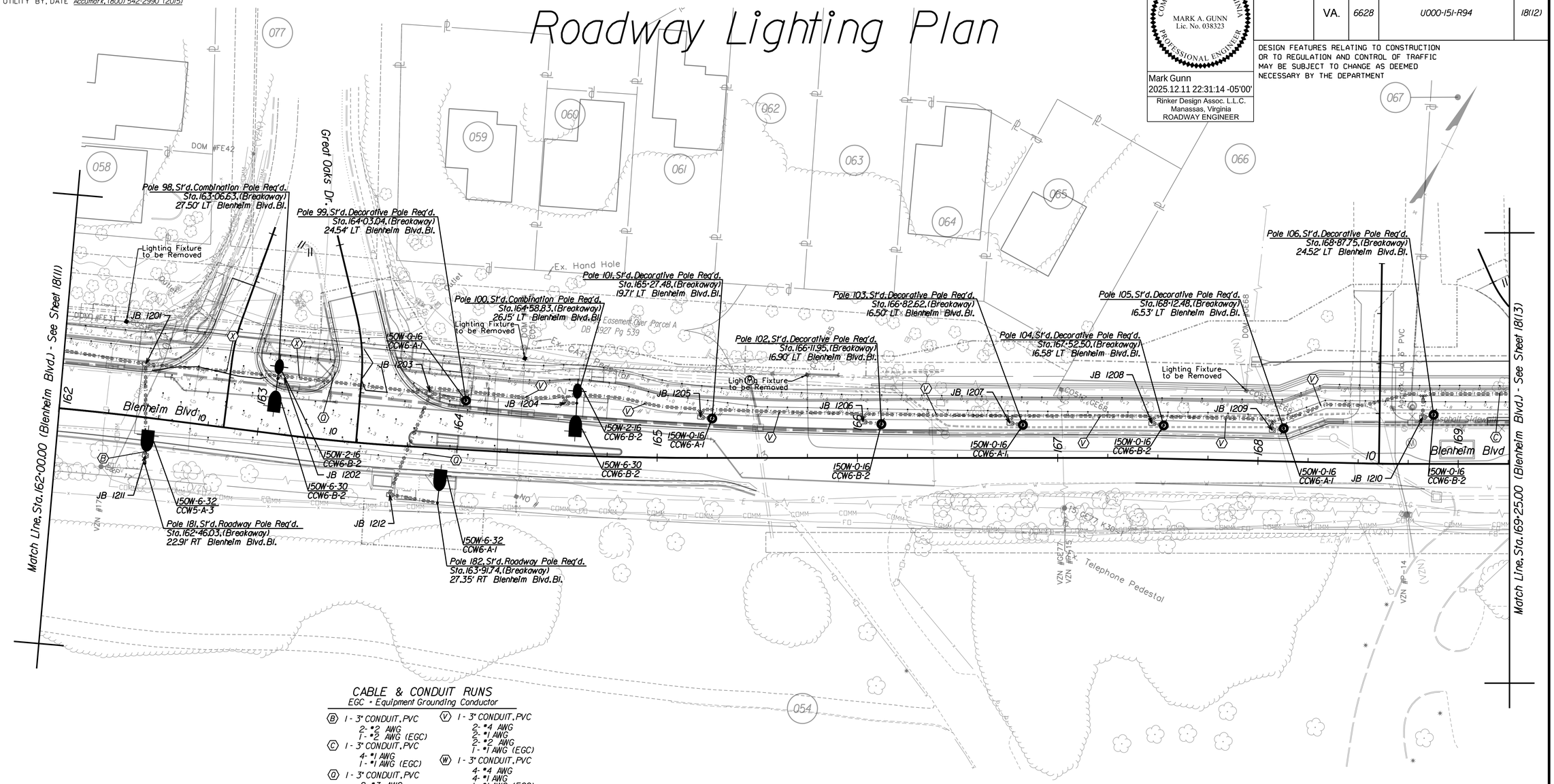
Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:31:14 -05'00'
Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(12)

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



CABLE & CONDUIT RUNS

EGC - Equipment Grounding Conductor

(B) 1 - 3" CONDUIT, PVC
2 - #2 AWG
1 - #2 AWG (EGC)

(C) 1 - 3" CONDUIT, PVC
4 - #1 AWG
1 - #1 AWG (EGC)

(D) 1 - 3" CONDUIT, PVC
2 - #3 AWG
1 - #3 AWG (EGC)

(V) 1 - 3" CONDUIT, PVC
2 - #4 AWG
2 - #1 AWG
2 - #2 AWG
1 - #1 AWG (EGC)

(W) 1 - 3" CONDUIT, PVC
4 - #4 AWG
4 - #1 AWG
1 - #1 AWG (EGC)

(X) 1 - 3" CONDUIT SPARE

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(12)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	12A
Profile Great Oaks Dr., Entrances	12B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(12)

12/10/2025

FINAL PLANS

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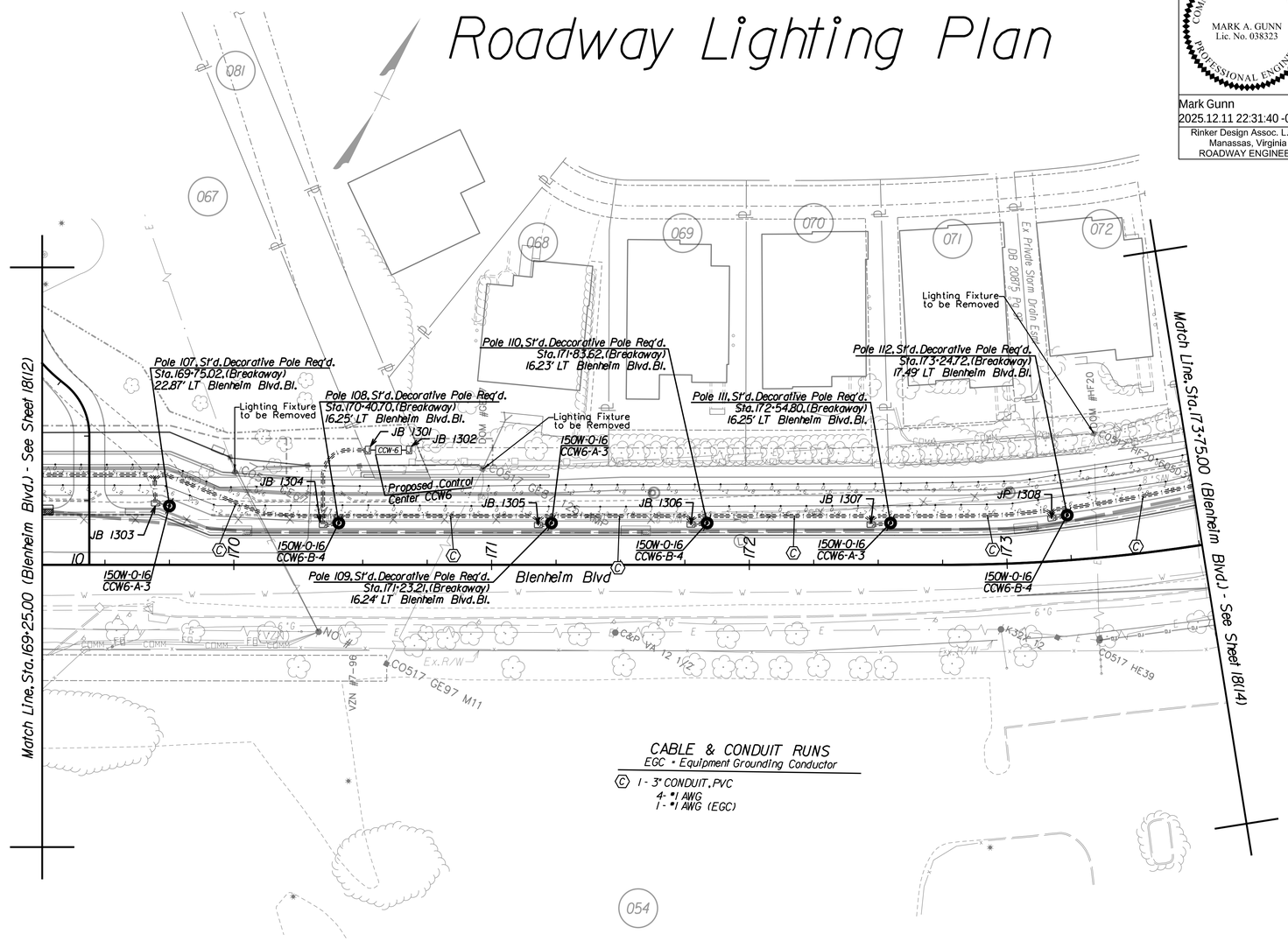
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

Roadway Lighting Plan



CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

(C) 1 - 3" CONDUIT, PVC
4 - #1 AWG
1 - #1 AWG (EGC)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:31:40 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(13)

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

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(13)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	13A
Profile Entrances	13B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(13)

12/10/2025

FINAL PLANS

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)

Roadway Lighting Plan

CABLE & CONDUIT RUNS

EGC - Equipment Grounding Conductor

(A) 1 - 3" CONDUIT, PVC
2- #1 AWG
1 - #1 AWG (EGC)

(C) 1 - 3" CONDUIT, PVC
4- #1 AWG
1 - #1 AWG (EGC)

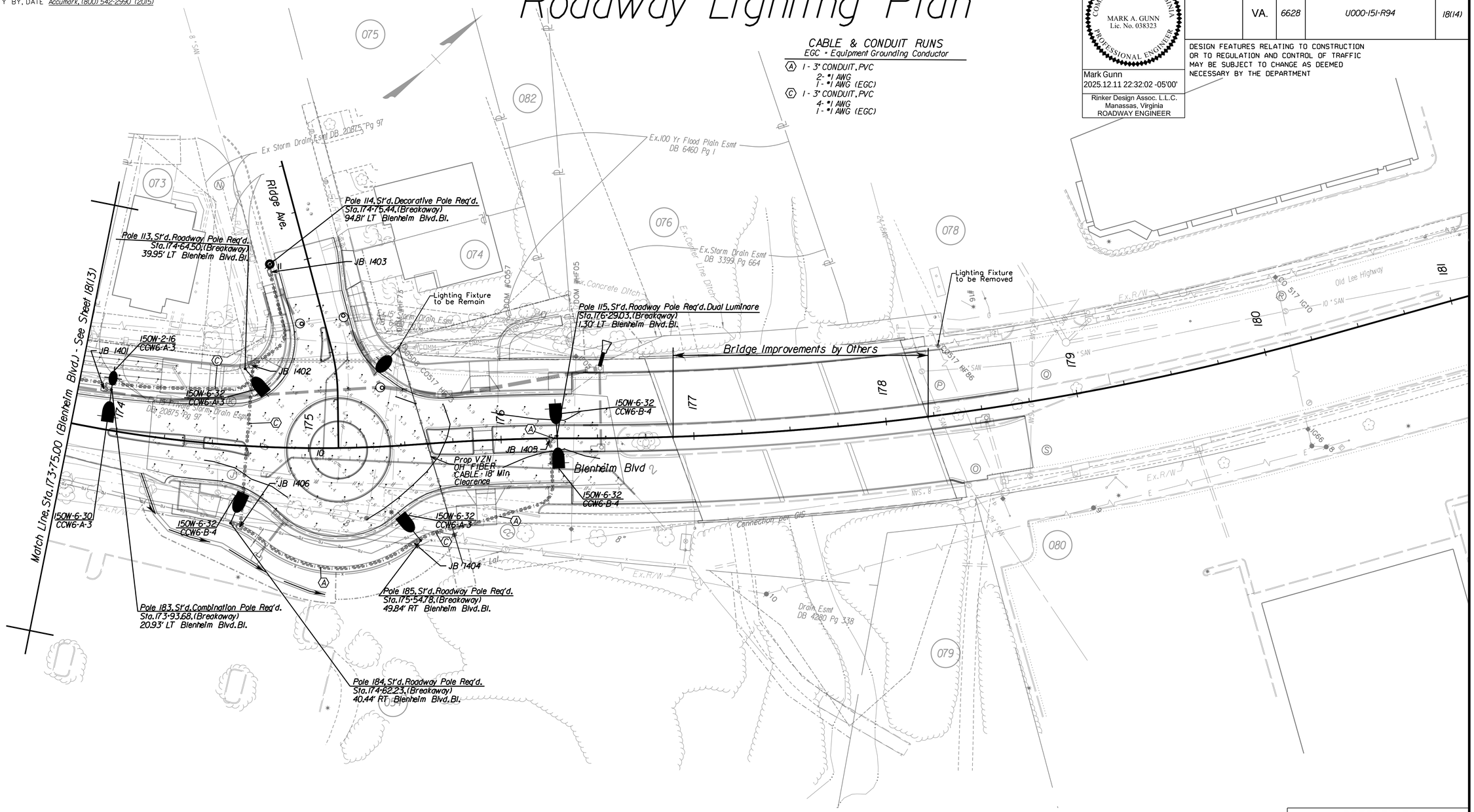
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark Gunn
2025.12.11 22:32:02 -05'00'

Rinker Design Assoc. L.L.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(14)

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



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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(14)
Horizontal Constr. Alignment Data	1G(1A) - 1G(1F)
Erosion Controls Ph1 & Ph2	1Q - 1R(6)
Typical Sections	2A - 2A(7)
Drainage Descriptions	2G - 2G(3)
Profile Blenheim Blvd	14A
Profile Ridge Avenue	14B
Pavement Marking & Signing Plan	15 Series
Intersection/Bus Stop Detail Plan	1H Series

SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(14)

12/10/2025

FINAL PLANS

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 (BID ALTERNATE 1)

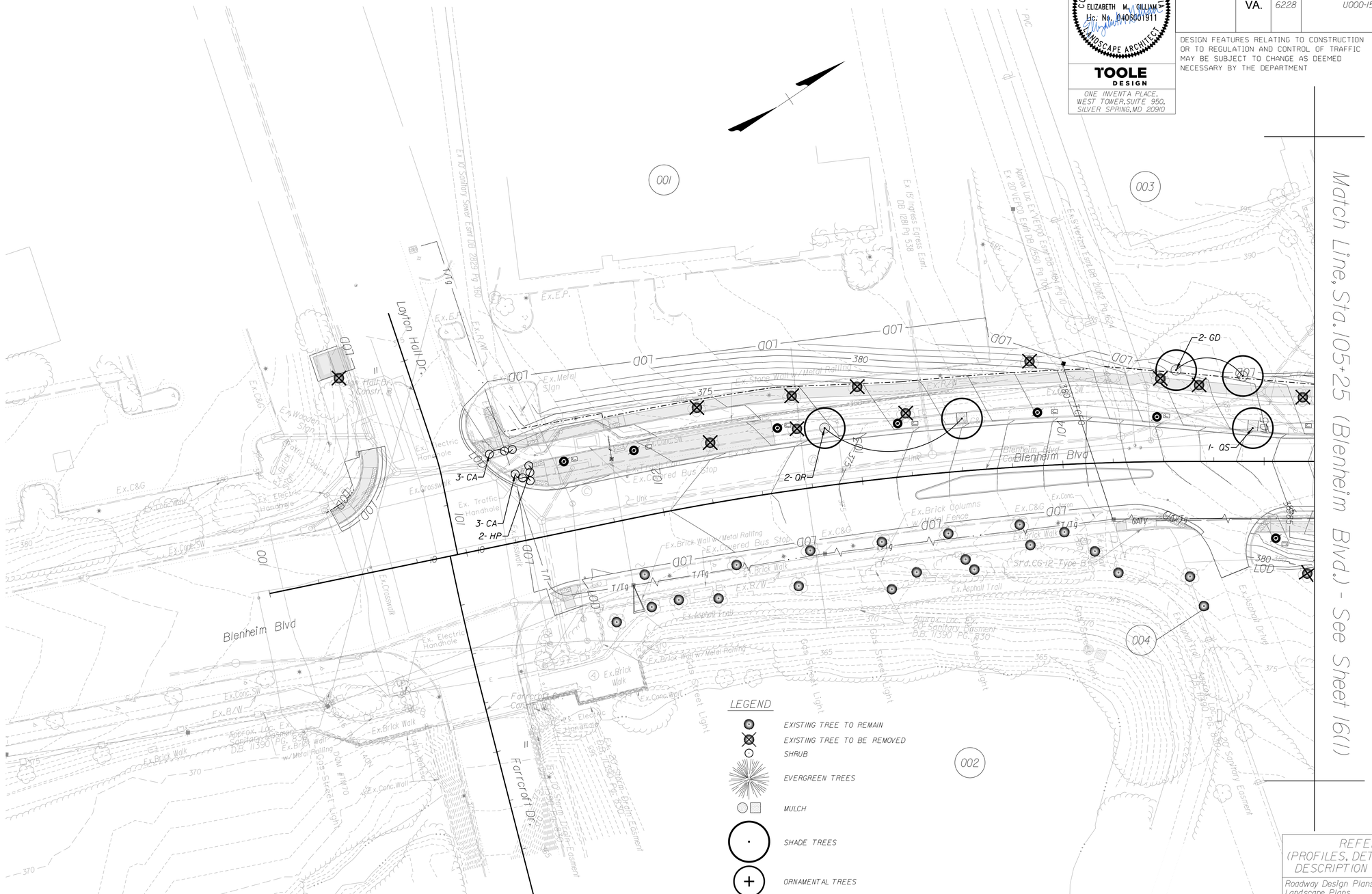
TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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



LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SHRUB
- EVERGREEN TREES
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- LIGHTING FIXTURE
- 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

FINAL PLANS

1/9/2026
3:56:43 PM

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Plotted By: Tony Trefzger

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
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PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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LANDSCAPE PLAN (BID ALTERNATE 1)

COMMONWEALTH OF VIRGINIA
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LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SHRUB
- EVERGREEN TREES
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- LIGHTING FIXTURE
- 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.

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

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
PHONE: 301.927.1900
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PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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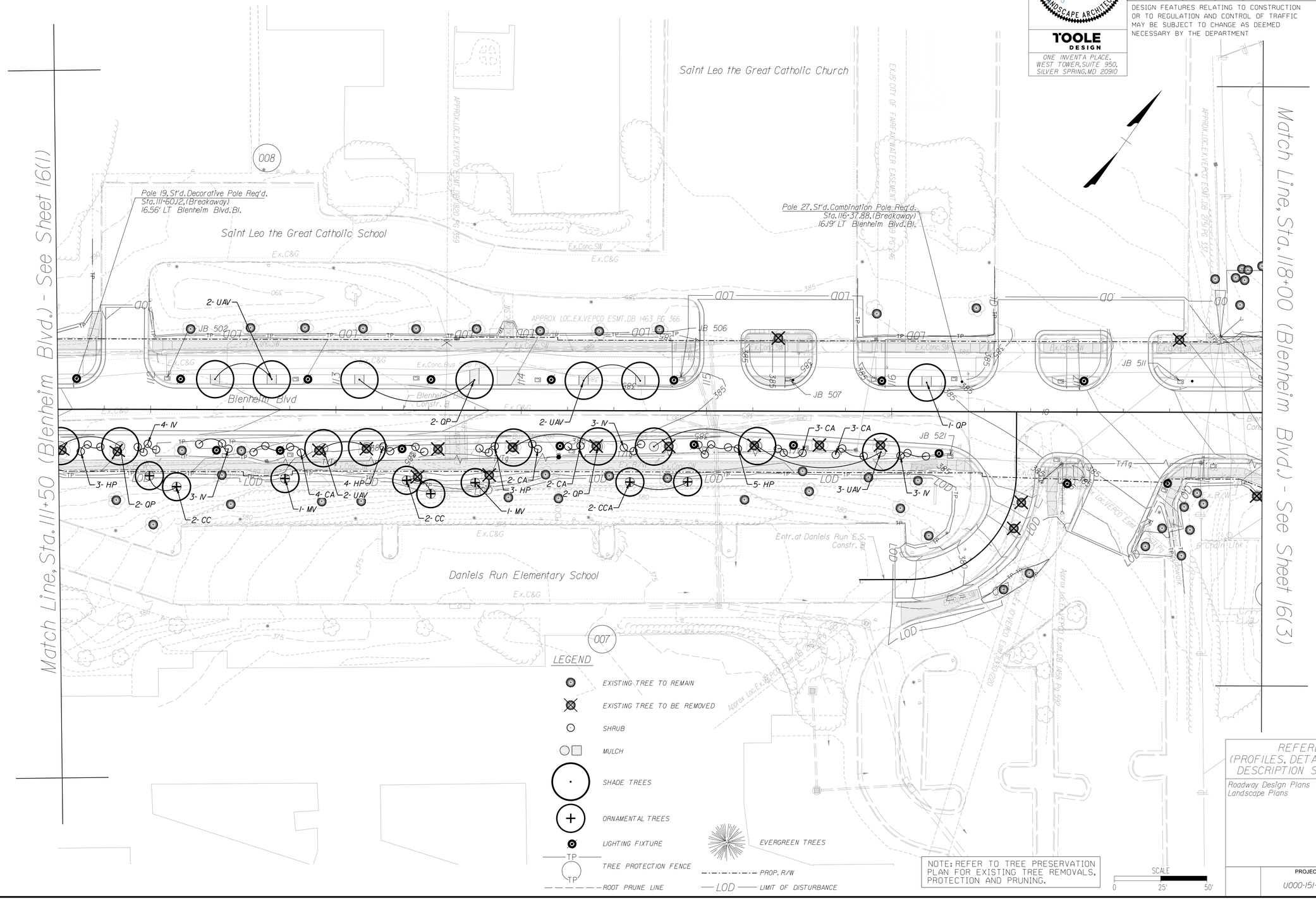
LANDSCAPE PLAN (BID ALTERNATE 1)

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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



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

1/9/2026
3:57:46 PM

d1070I3_016(3).dgn
Plotted By:TonyTrefzger

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
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)
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SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

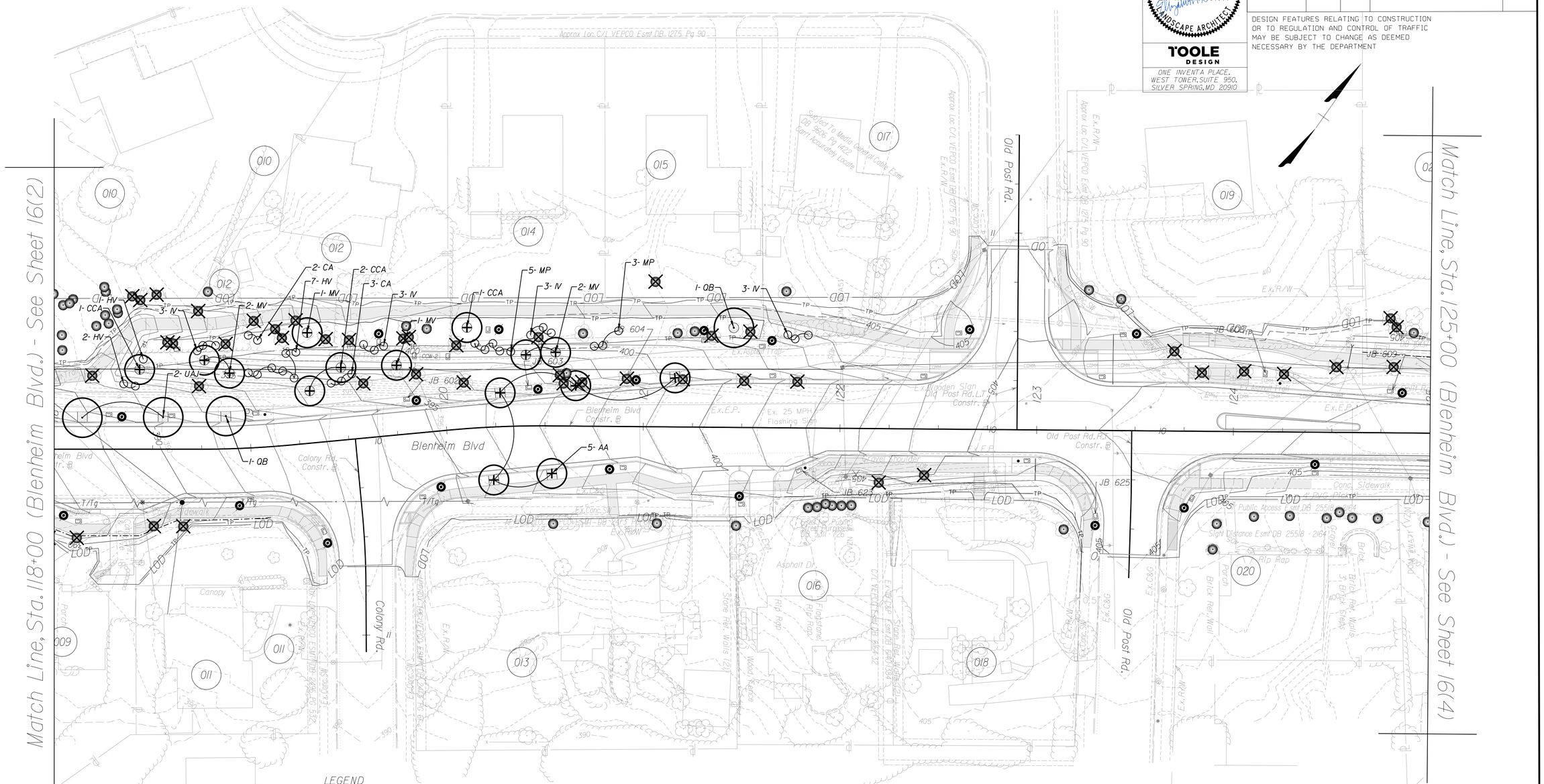
LANDSCAPE PLAN (BID ALTERNATE 1)

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER,SUITE 950, SILVER SPRING,MD 20910

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



LEGEND

- EVERGREEN TREES
- MULCH
- SHADE TREES
- ORNAMENTAL 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

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

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
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LANDSCAPE PLAN (BID ALTERNATE 1)

COMMONWEALTH OF VIRGINIA
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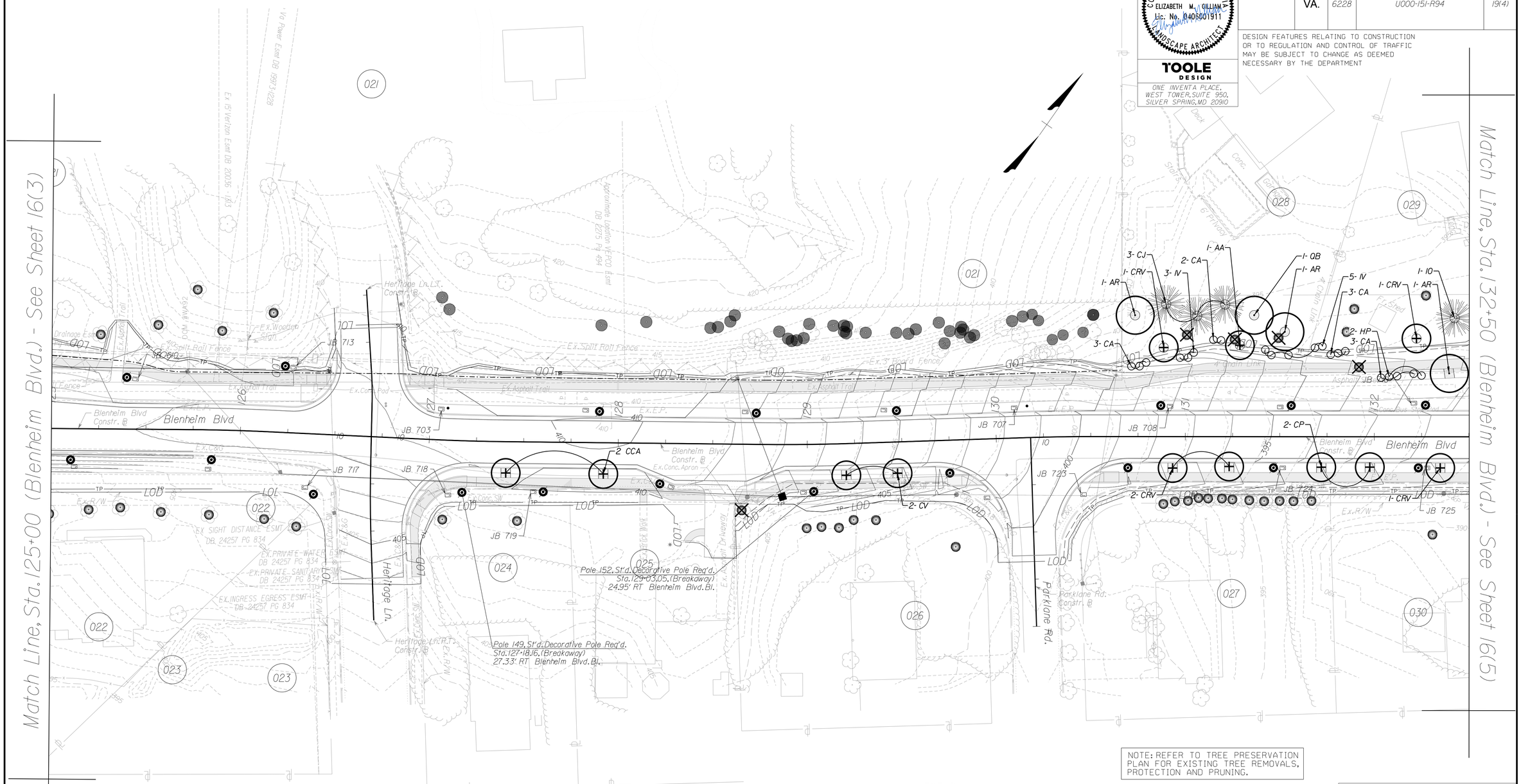
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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



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

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
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 (BID ALTERNATE 1)

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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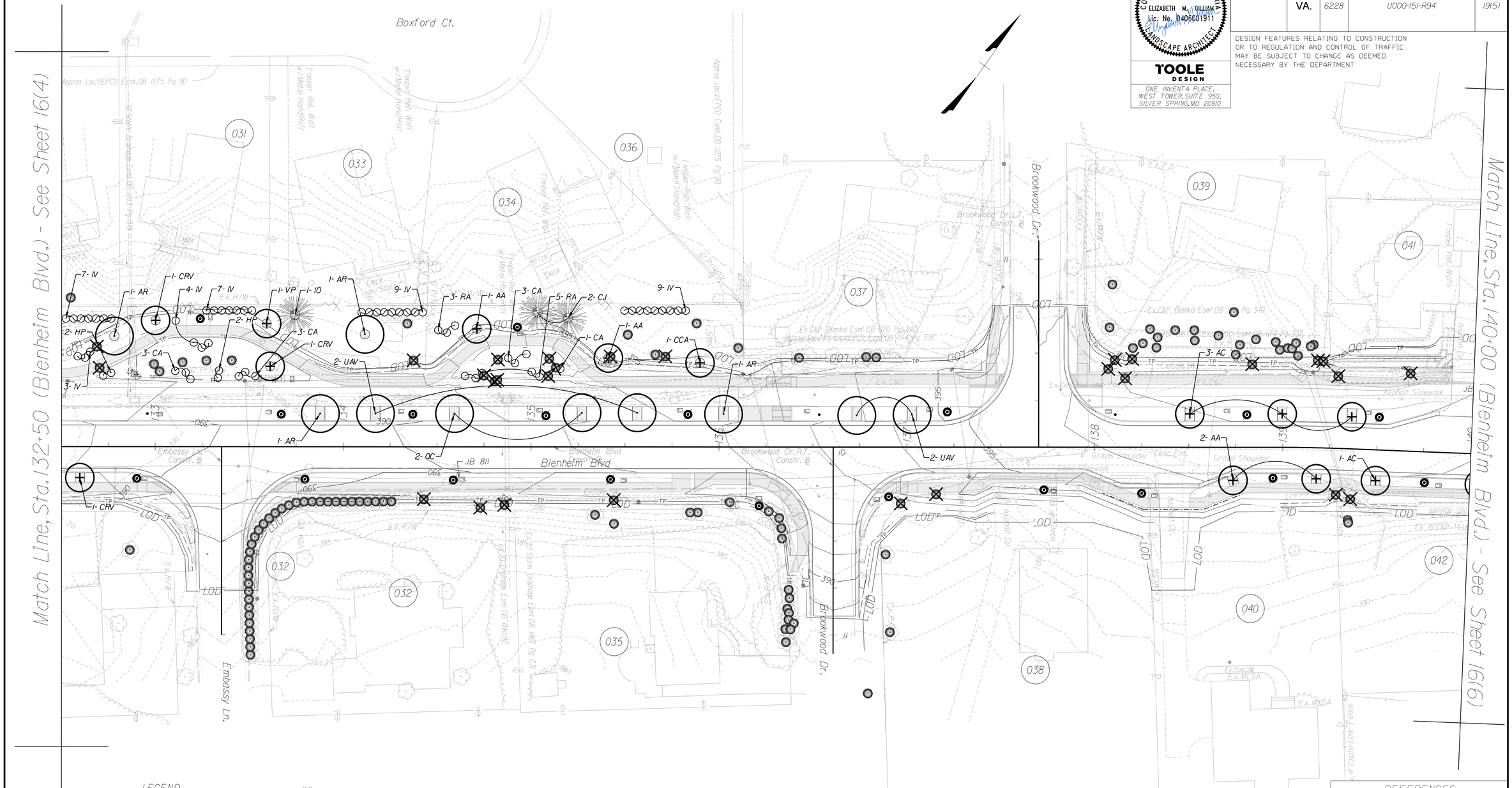

LEGEND

- SHRUB
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- LIGHTING FIXTURE
- EVERGREEN TREES
- EXISTING TREE TO REMAIN
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SCALE 0 25' 50'

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

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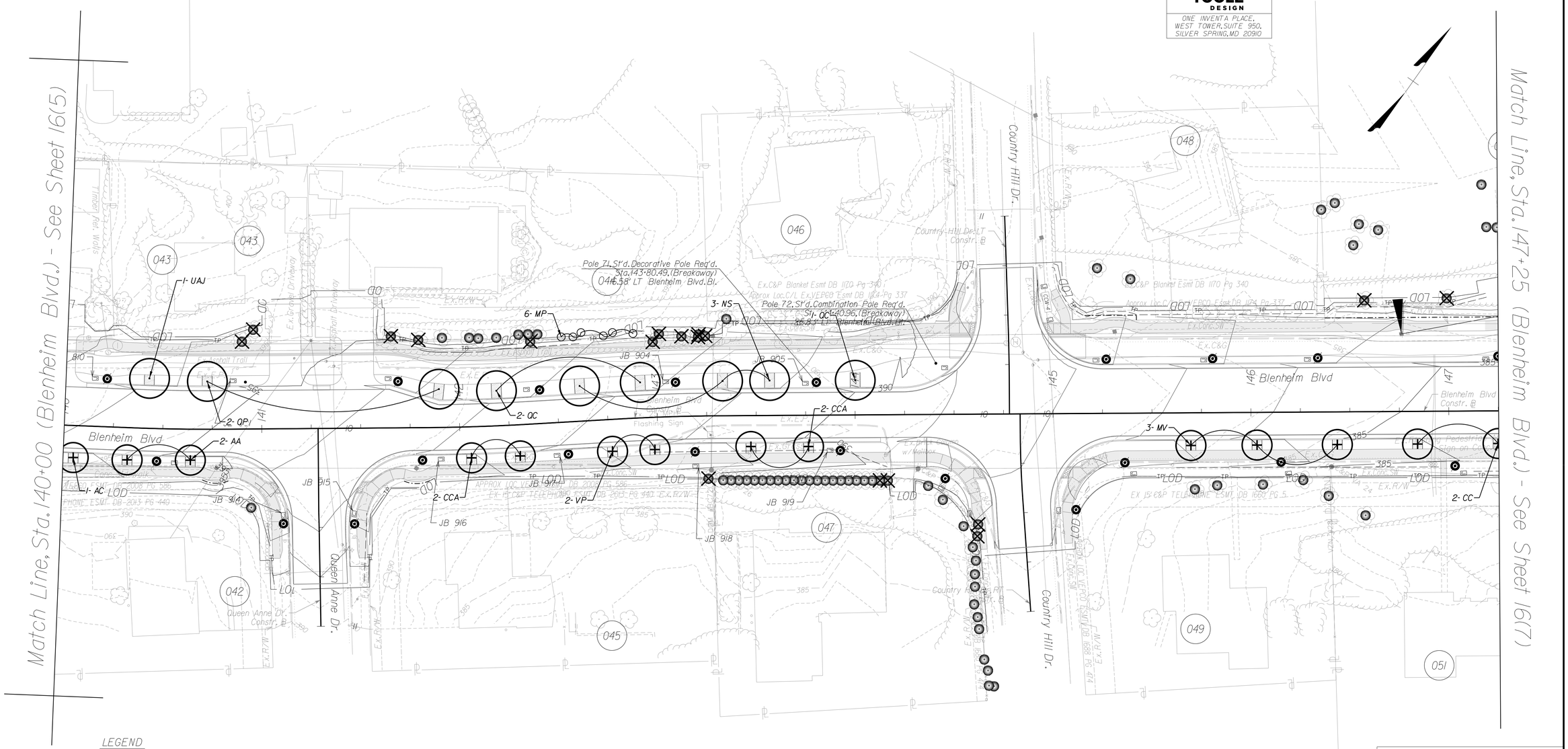

LEGEND

- LIGHTING FIXTURE
- MULCH
- SHADE TREES
- ORNAMENTAL TREES
- EVERGREEN TREES
- EXISTING TREE TO REMAIN
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SCALE
0 25' 50'

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

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SCALE 0 25' 50'

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Landscape Plans	19 - 19(14)

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

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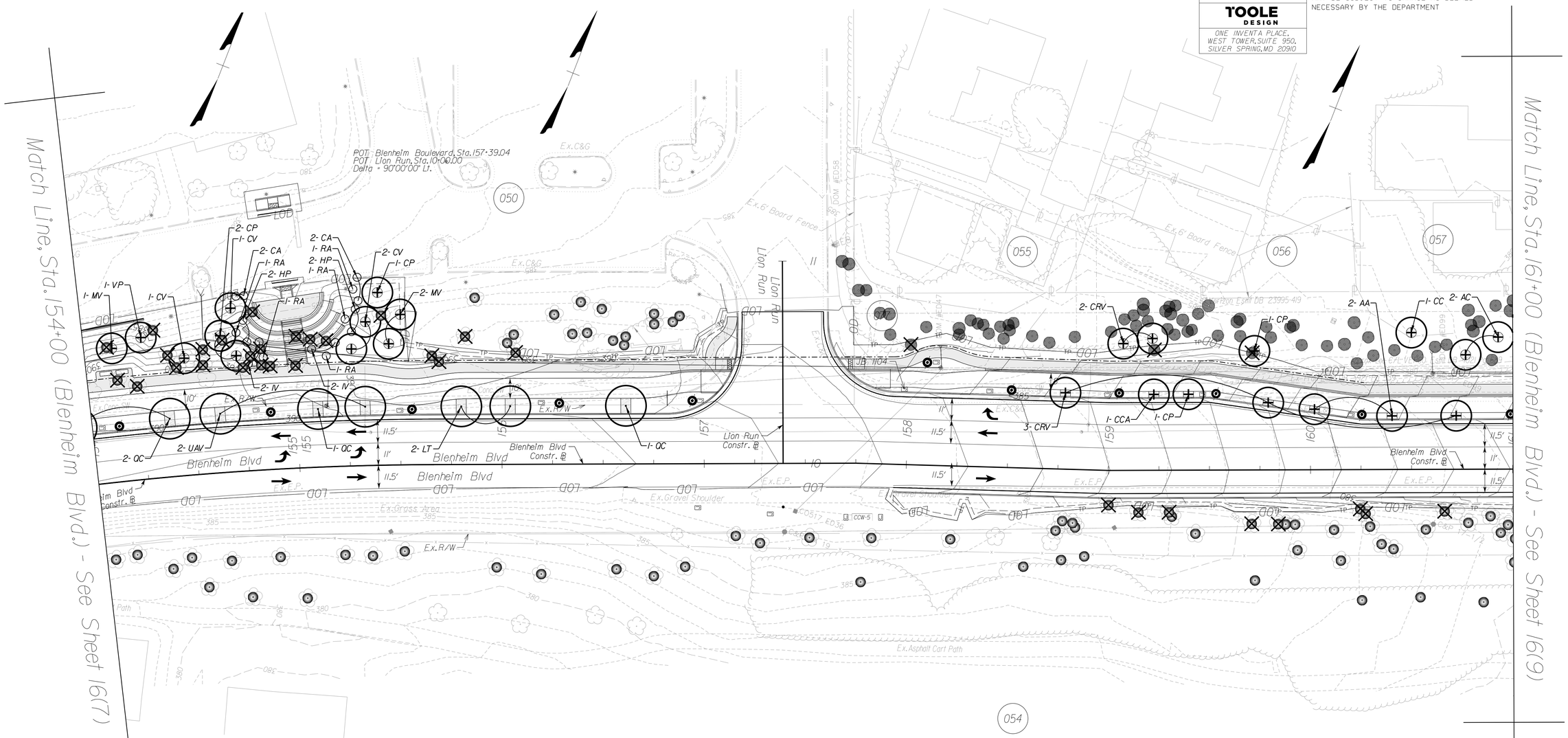

LEGEND

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'

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

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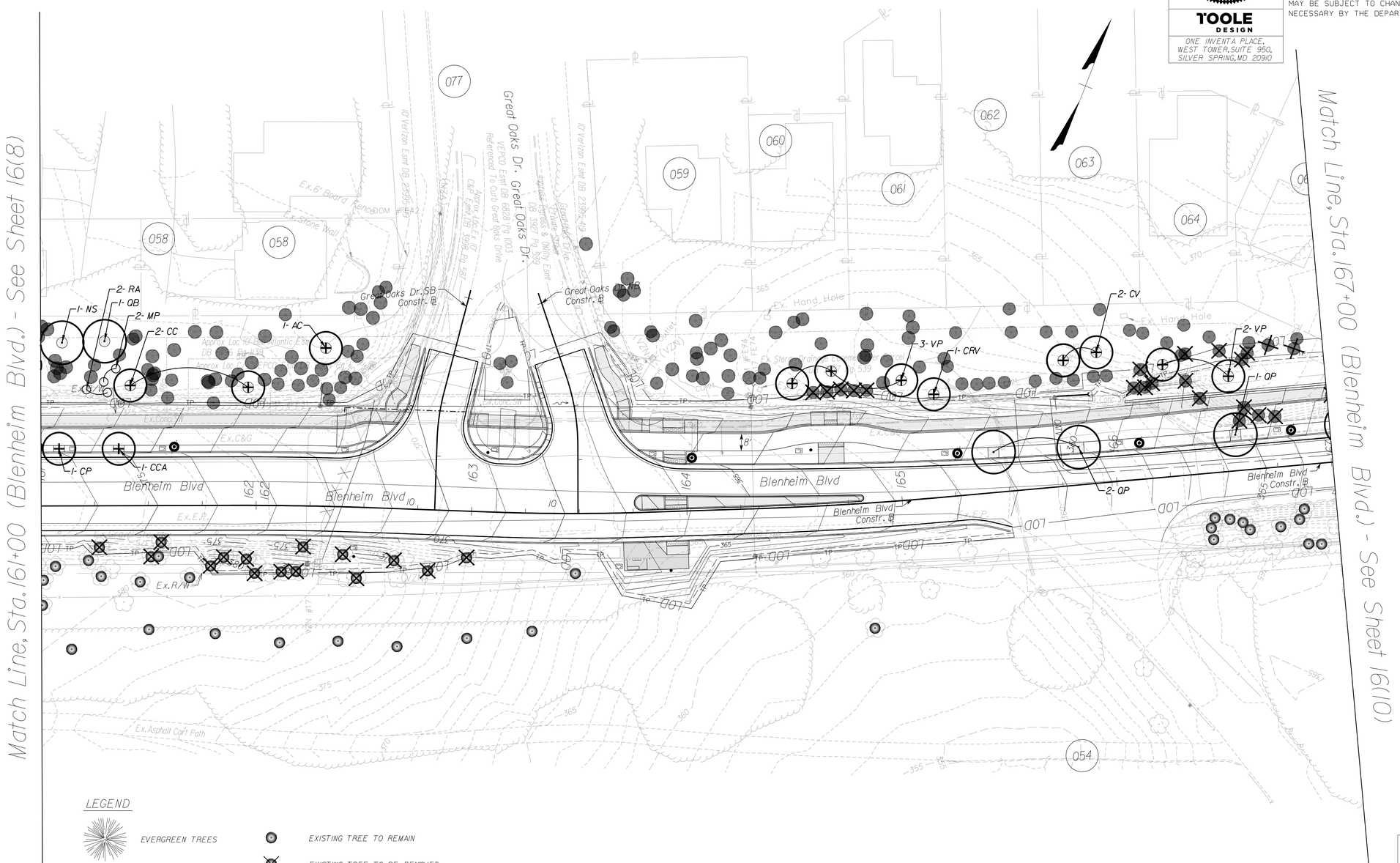

LEGEND

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
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0 25' 50'

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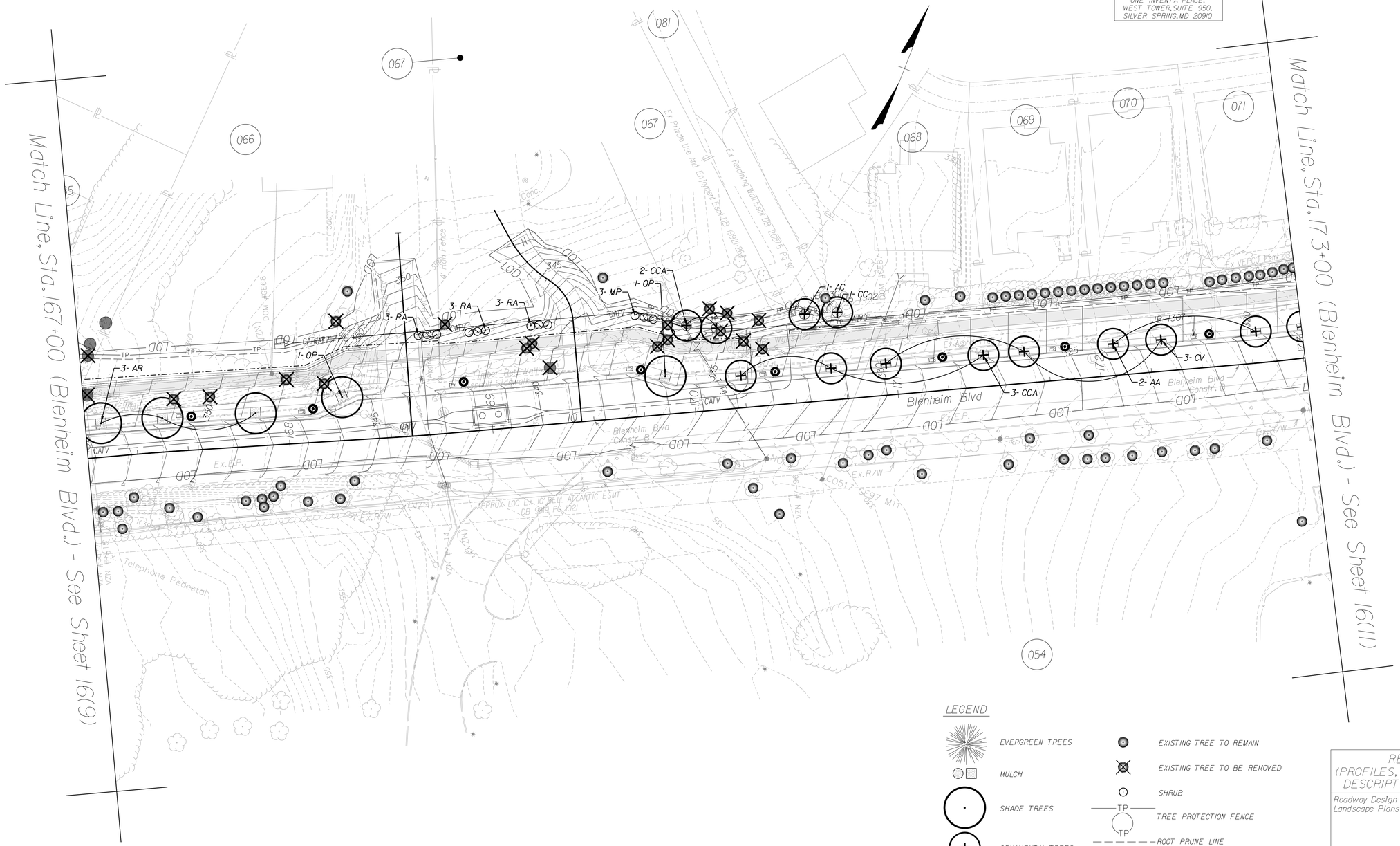

LEGEND

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

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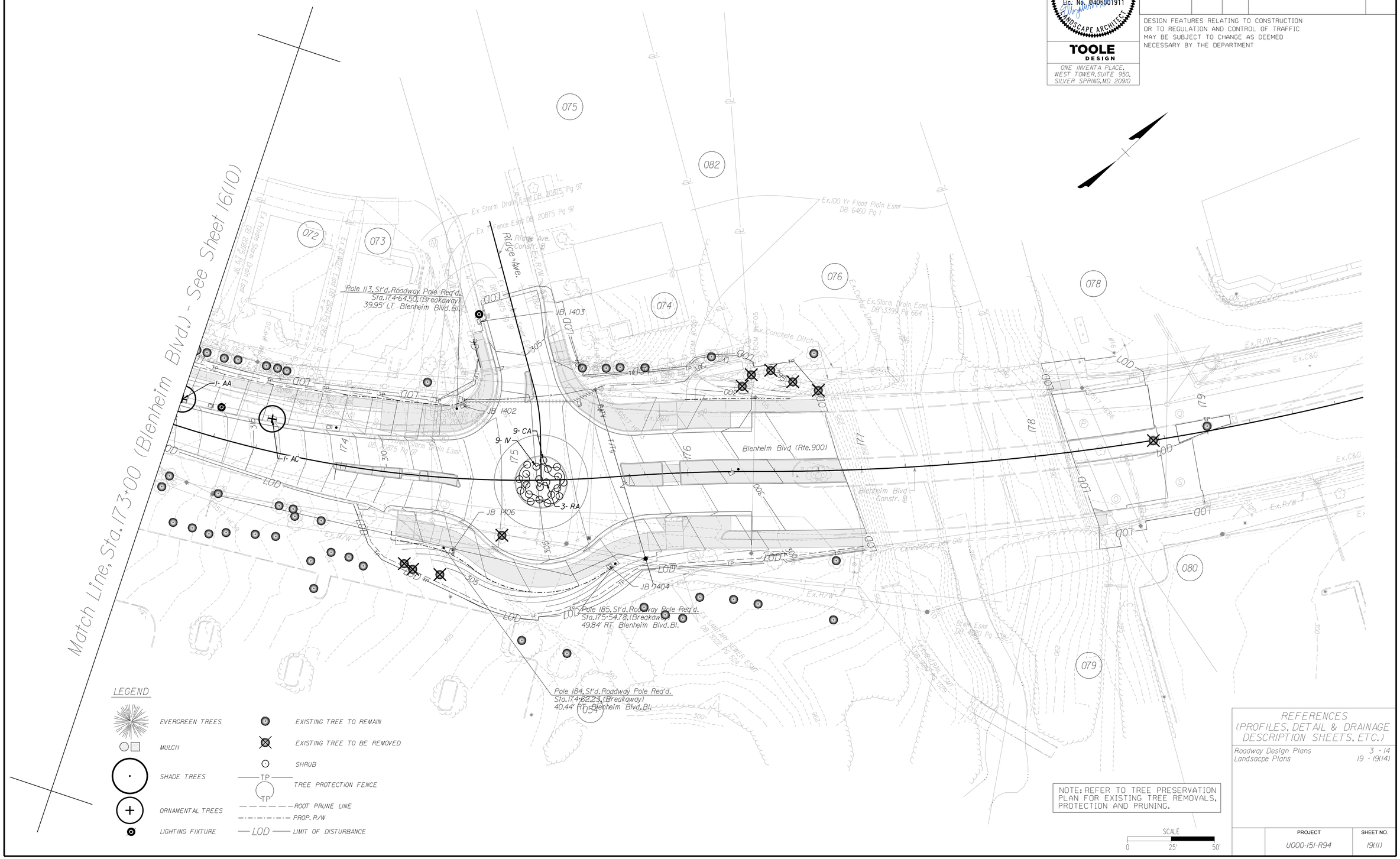

LEGEND

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

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SCALE
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Landsacpe Plans	19 - 19(14)

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LANDSCAPE DETAIL SHEET (BID ALTERNATE 1)

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	VA.	6228	U000-151-R94	19(12)

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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	4.95		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
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City of Fairfax -

Landscape Plans 19 - 19(14)

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

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

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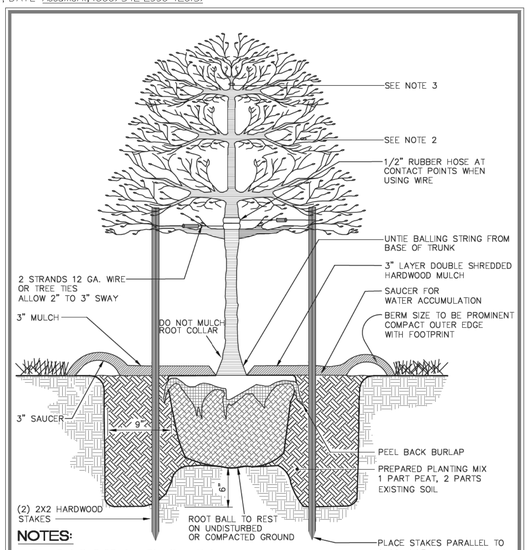


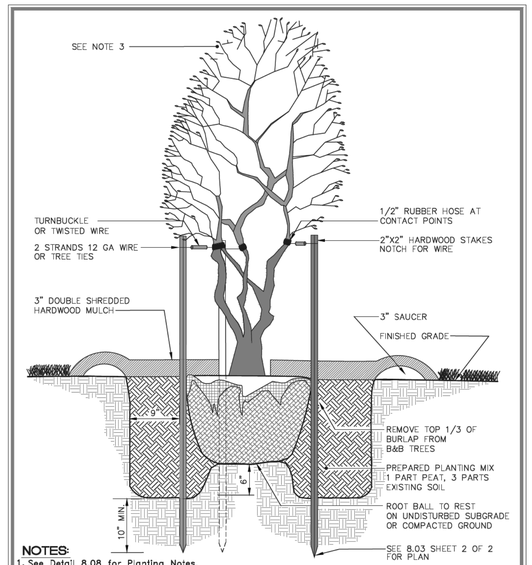
NOTES:
1. See Detail 8.08 for Planting Notes.
2. Prune only to remove dead or damaged branches. Raising branches is to be performed when approved to provide clearances for pedestrians.
3. Never prune the leader.
4. Remove non-decomposing material from root ball.
5. Remove stakes and wire at end of warranty 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:	DETAIL #
Not To Scale	8.01
REVISION DATE: December 2016	SHEET # 1 of 1

DETAIL 1: SINGLE STEM TREE PLANTING-1



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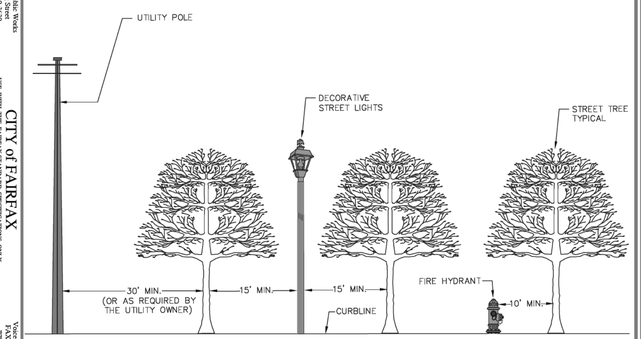
MULTI-STEM TREE PLANTING and STAKING DETAIL

SCALE:	DETAIL #
Not To Scale	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.



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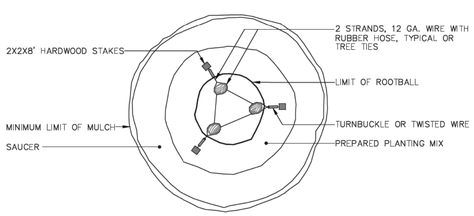
LANDSCAPE BUFFER DETAIL

SCALE:	DETAIL #
Not To Scale	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.

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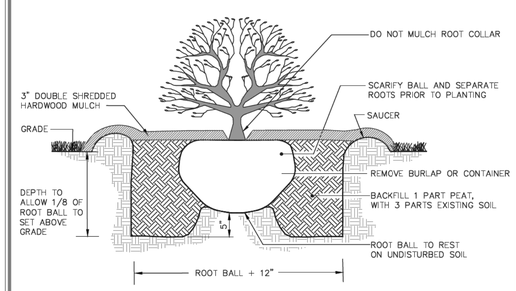
MULTI-STEM TREE PLANTING and STAKING DETAIL

SCALE:	DETAIL #
Not To Scale	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.

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SHRUB DETAIL CONTAINER AND B&B

SCALE:	DETAIL #
Not To Scale	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

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
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 (BID ALTERNATE 1)

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.

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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.

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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.

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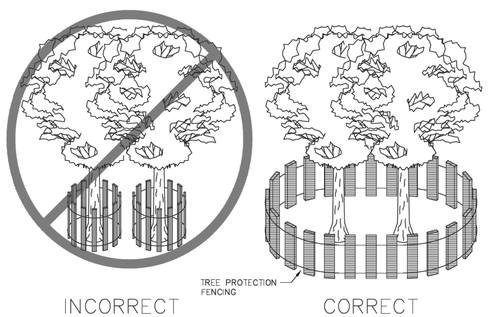
SCALE: Not To Scale
DETAIL # 8.08
REVISION DATE: December 2016
SHEET # 3 of 3

DETAIL 8: PLANTING NOTES-3

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT
TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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



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.

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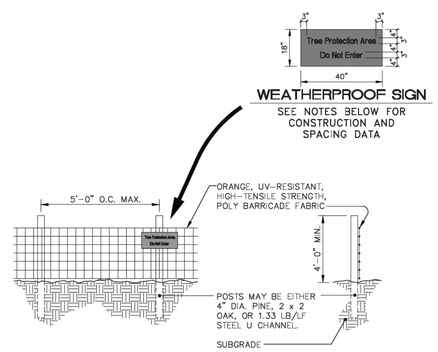
STANDARD TREE PROTECTION DETAIL
SCALE: Not To Scale
DETAIL # 8.09
REVISION DATE: December 2016
SHEET # 1 of 2

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.

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STANDARD TREE PROTECTION DETAIL
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DETAIL # 8.09
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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

TOOLE DESIGN
ONE INVENTA PLACE,
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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

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
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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

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

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Plotted By: ClaySublett

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

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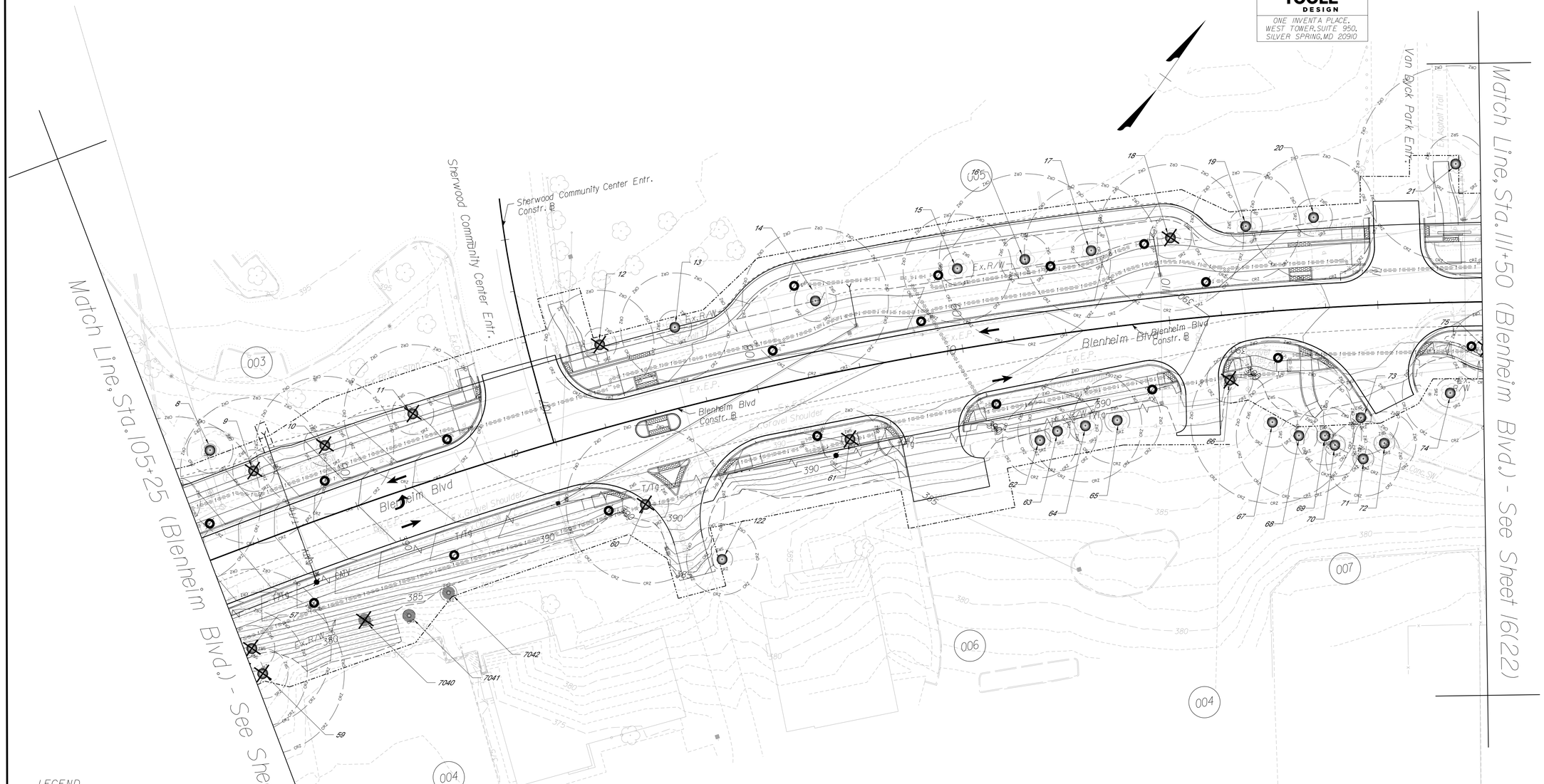

LEGEND

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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(11)

FINAL PLANS

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Plotted By:TonyTrefzger

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

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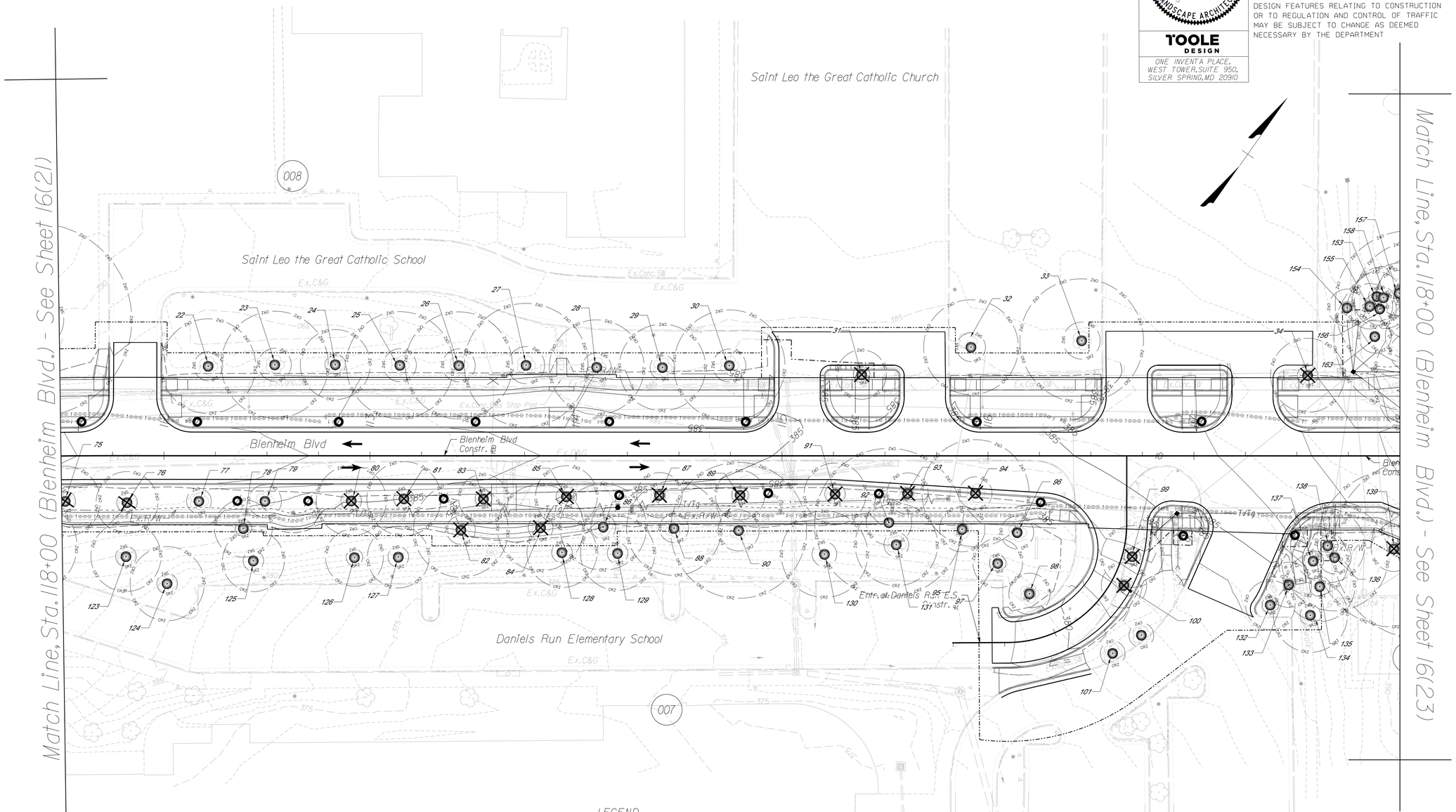

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SCALE
0 25' 50'

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

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

FINAL PLANS

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EXISTING TREE PLAN

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

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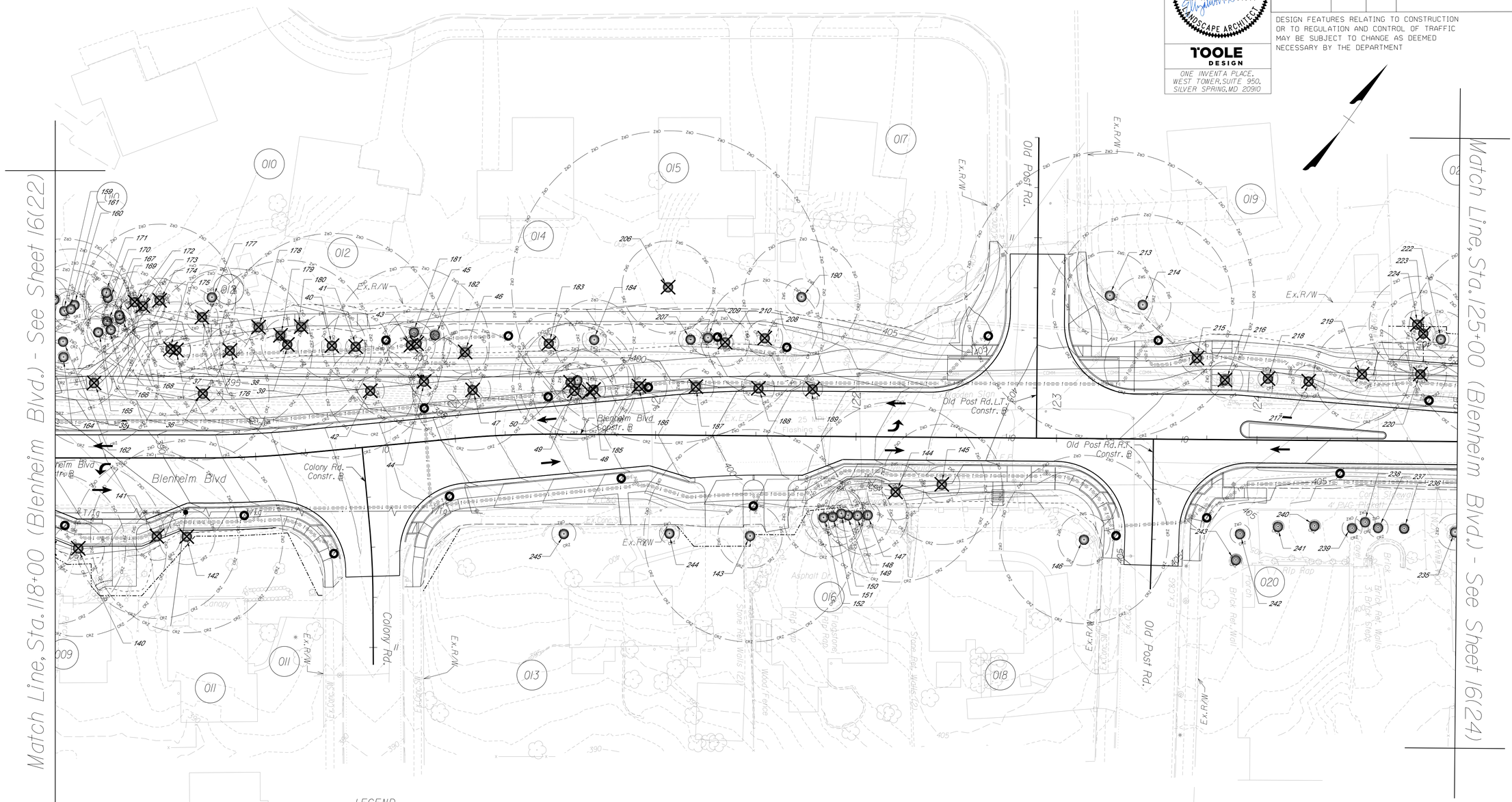

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SCALE
0 25' 50'

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

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

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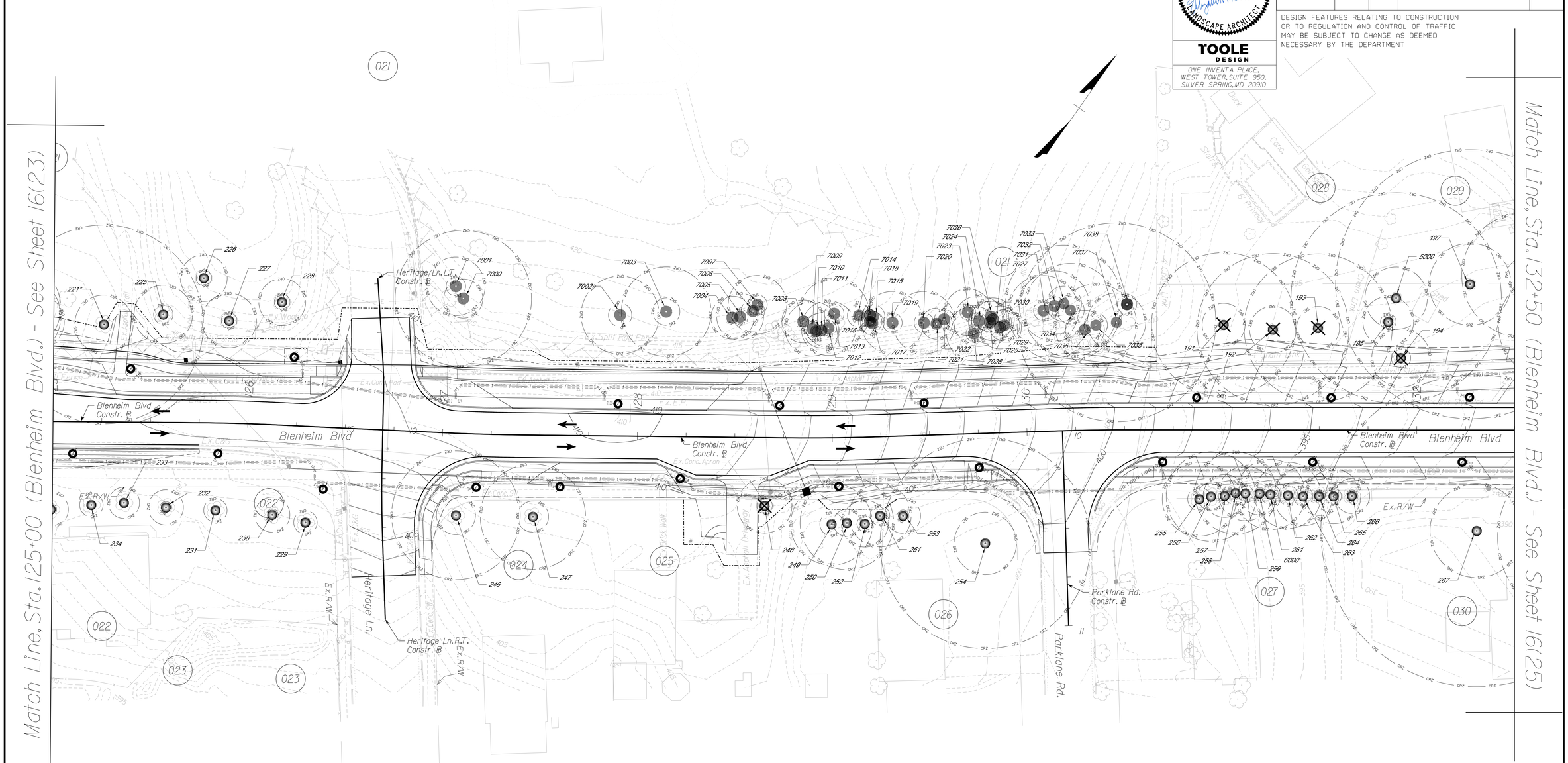

LEGEND

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SCALE
0 25' 50'

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

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Landscape Plans	16 - 16(11)

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

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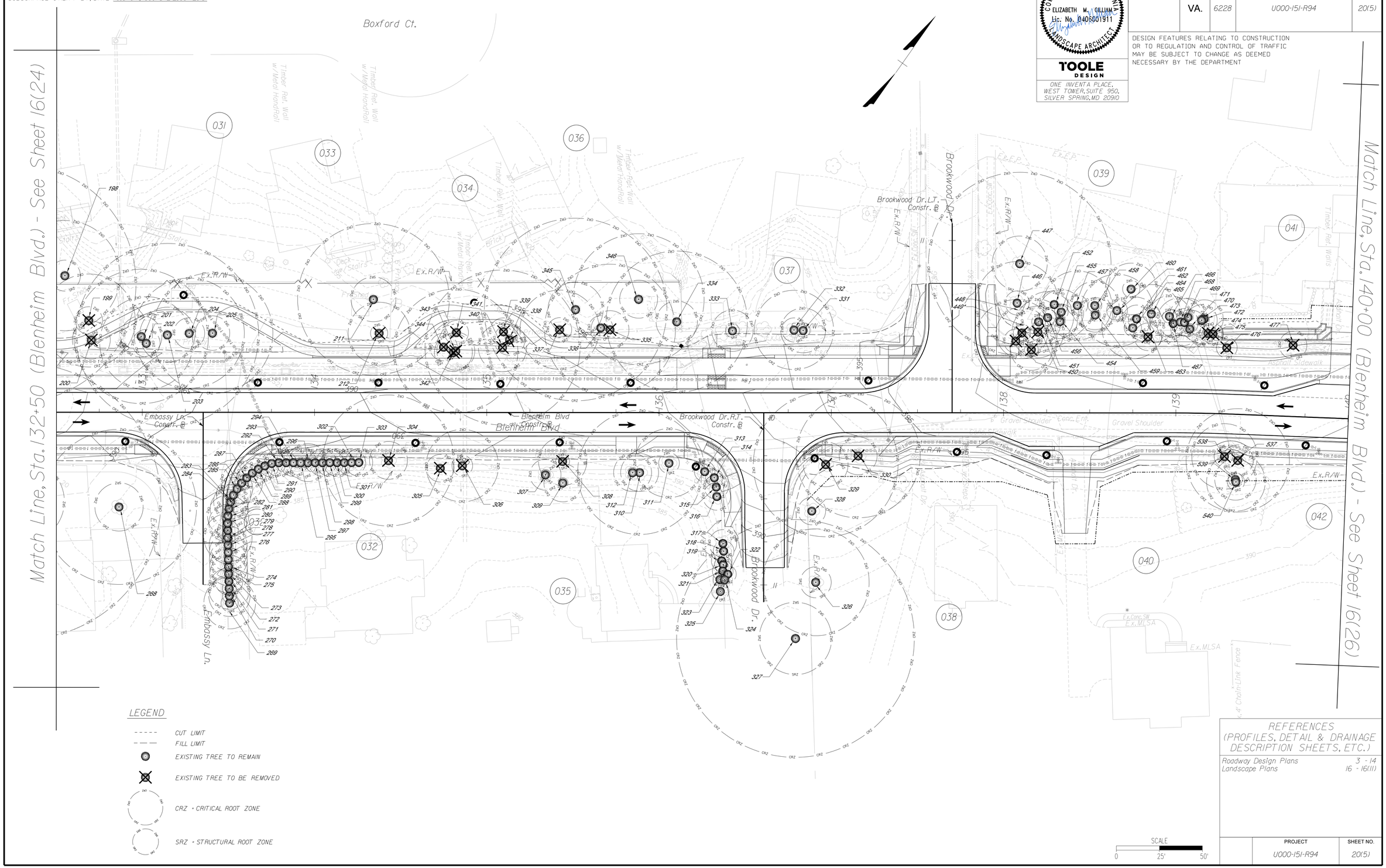
EXISTING TREE PLAN



LEGEND

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

SCALE 0 25' 50'

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

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Landscape Plans	16 - 16(11)

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

FINAL PLANS

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SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
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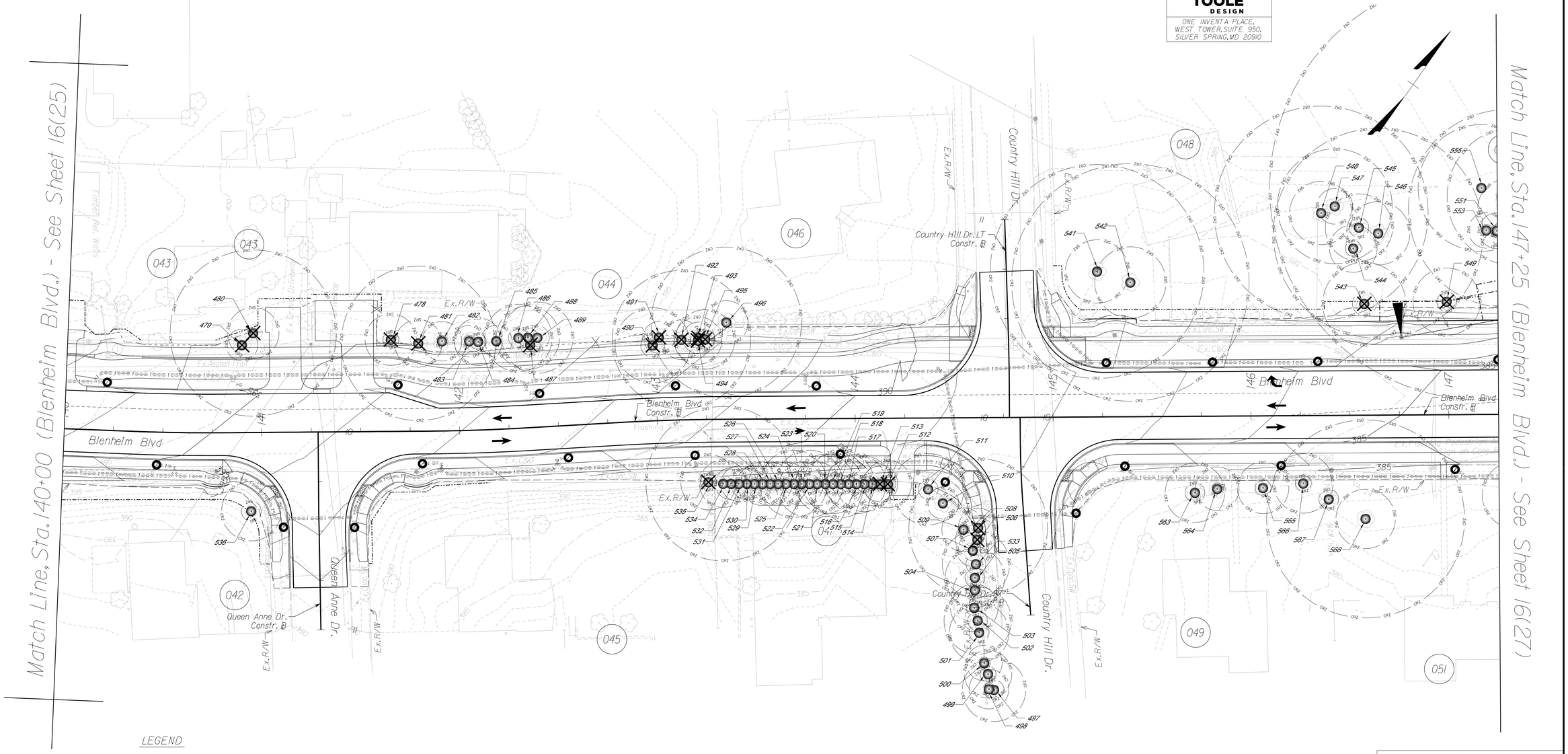

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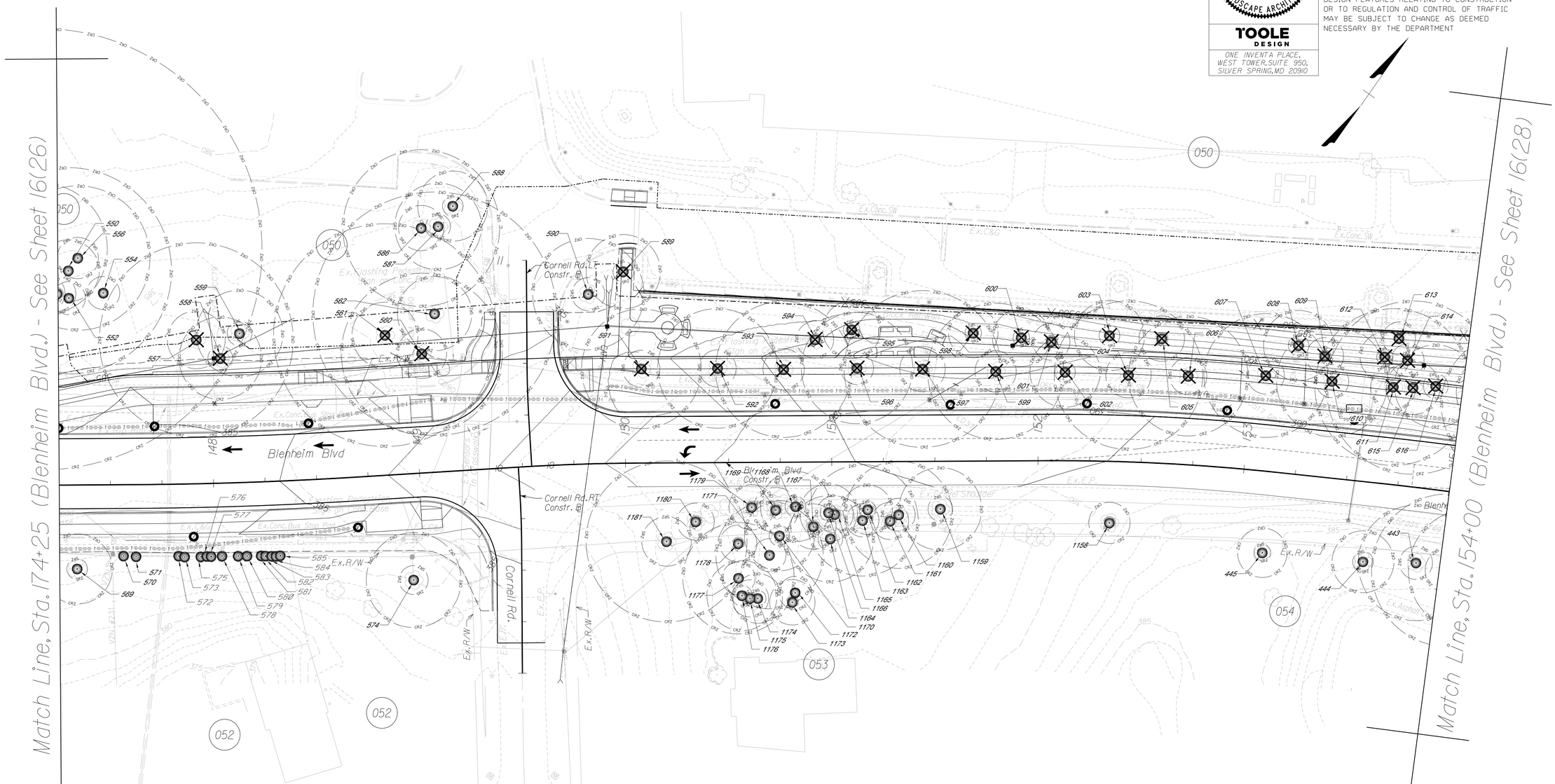

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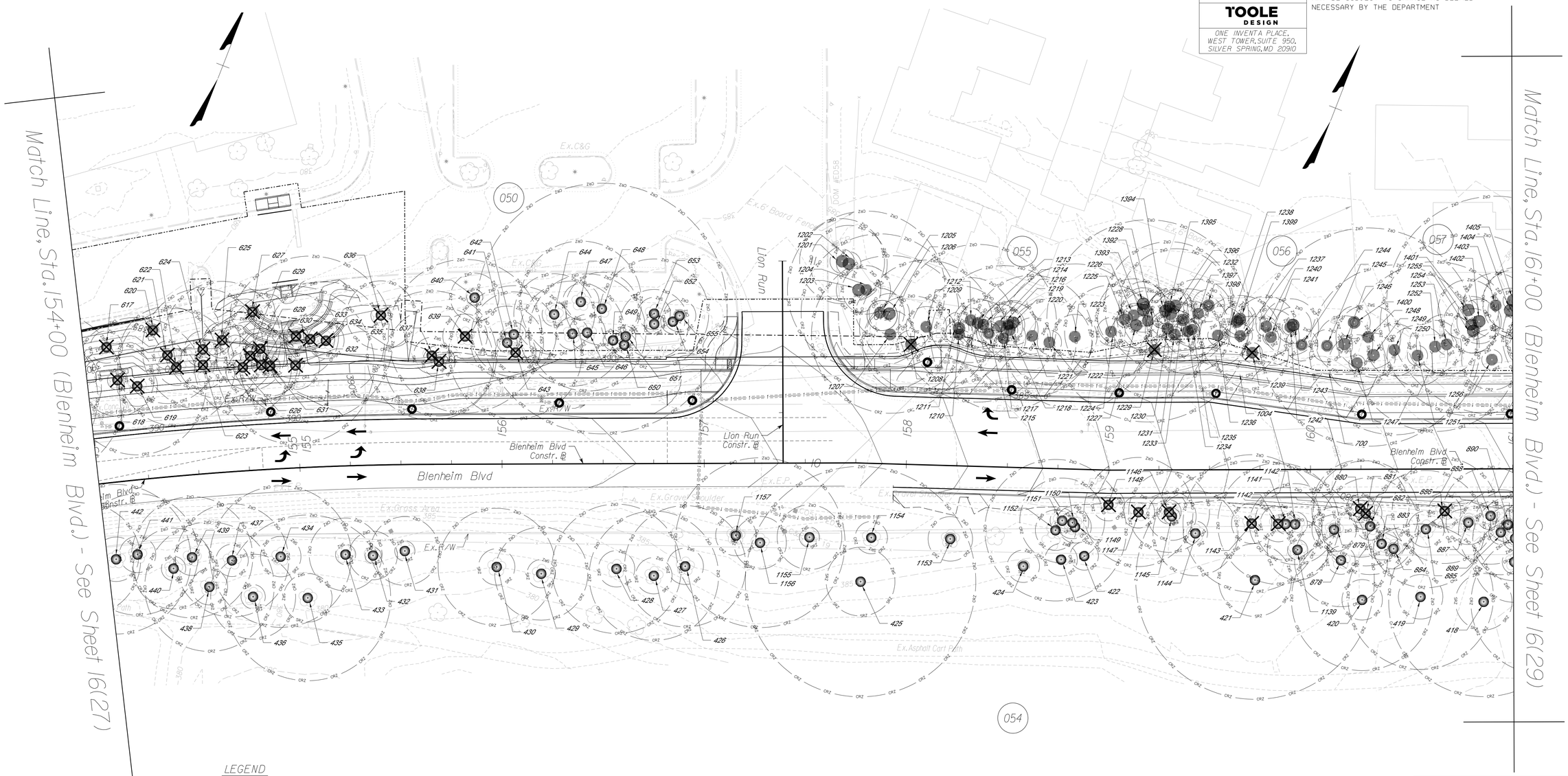

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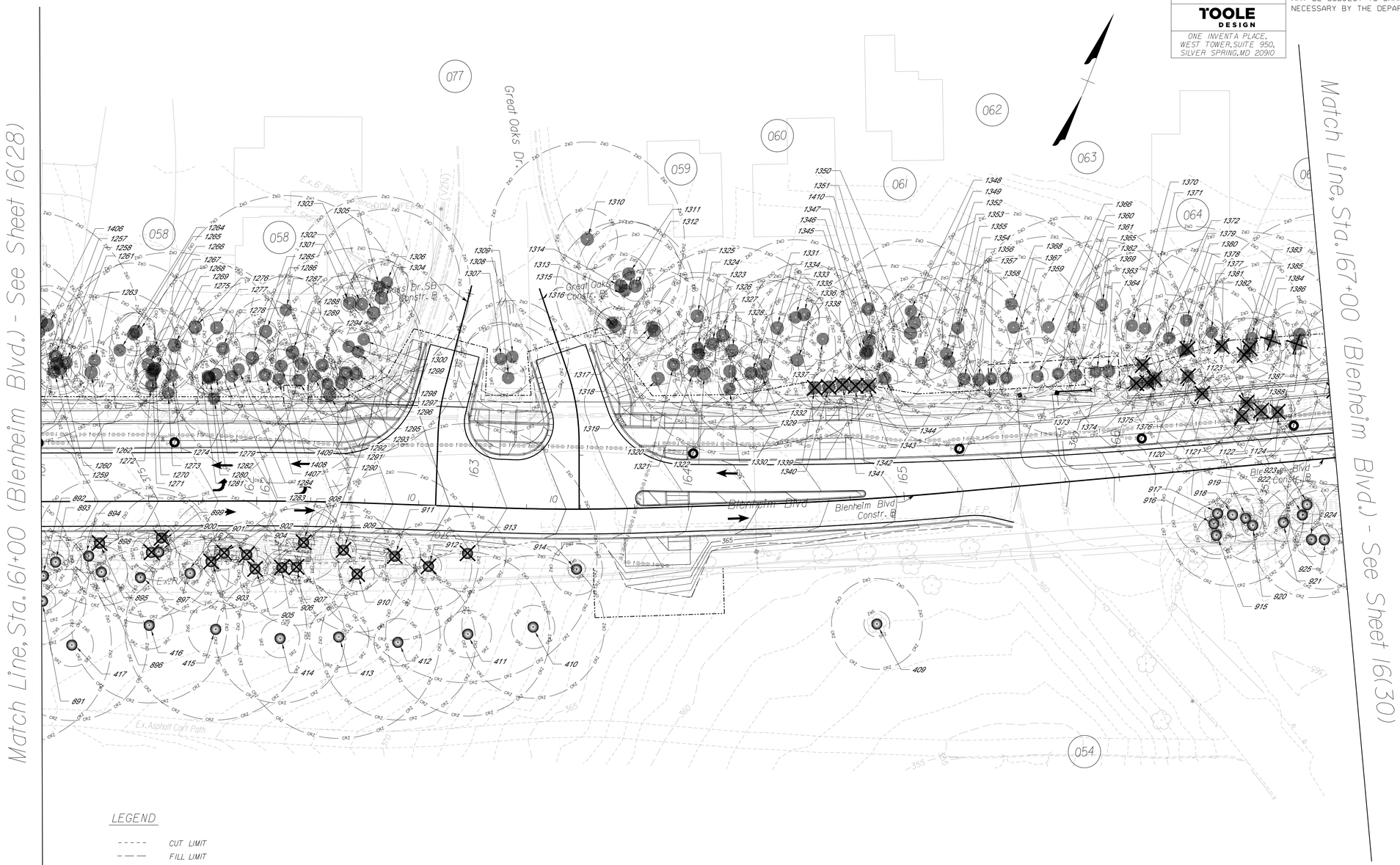

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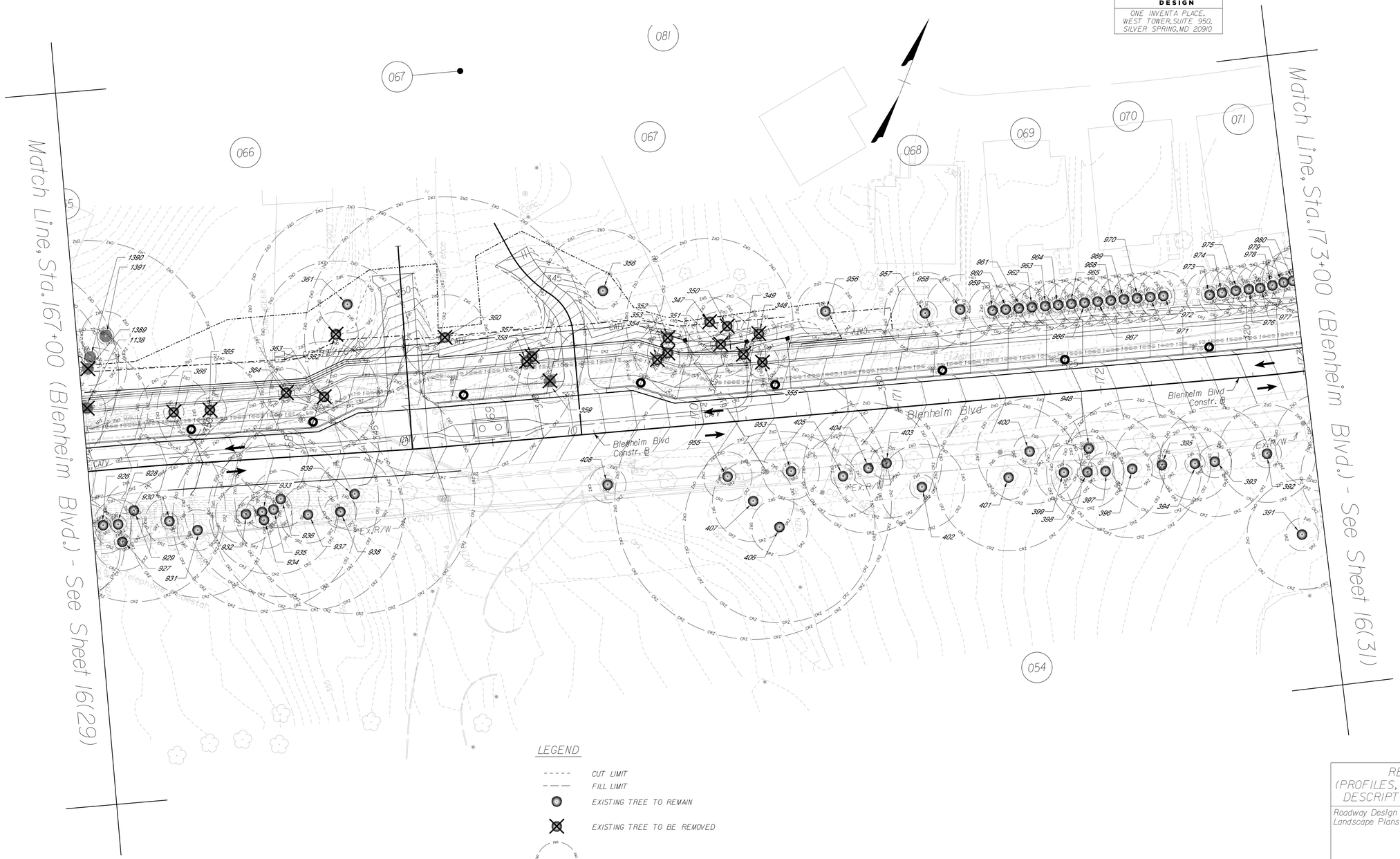

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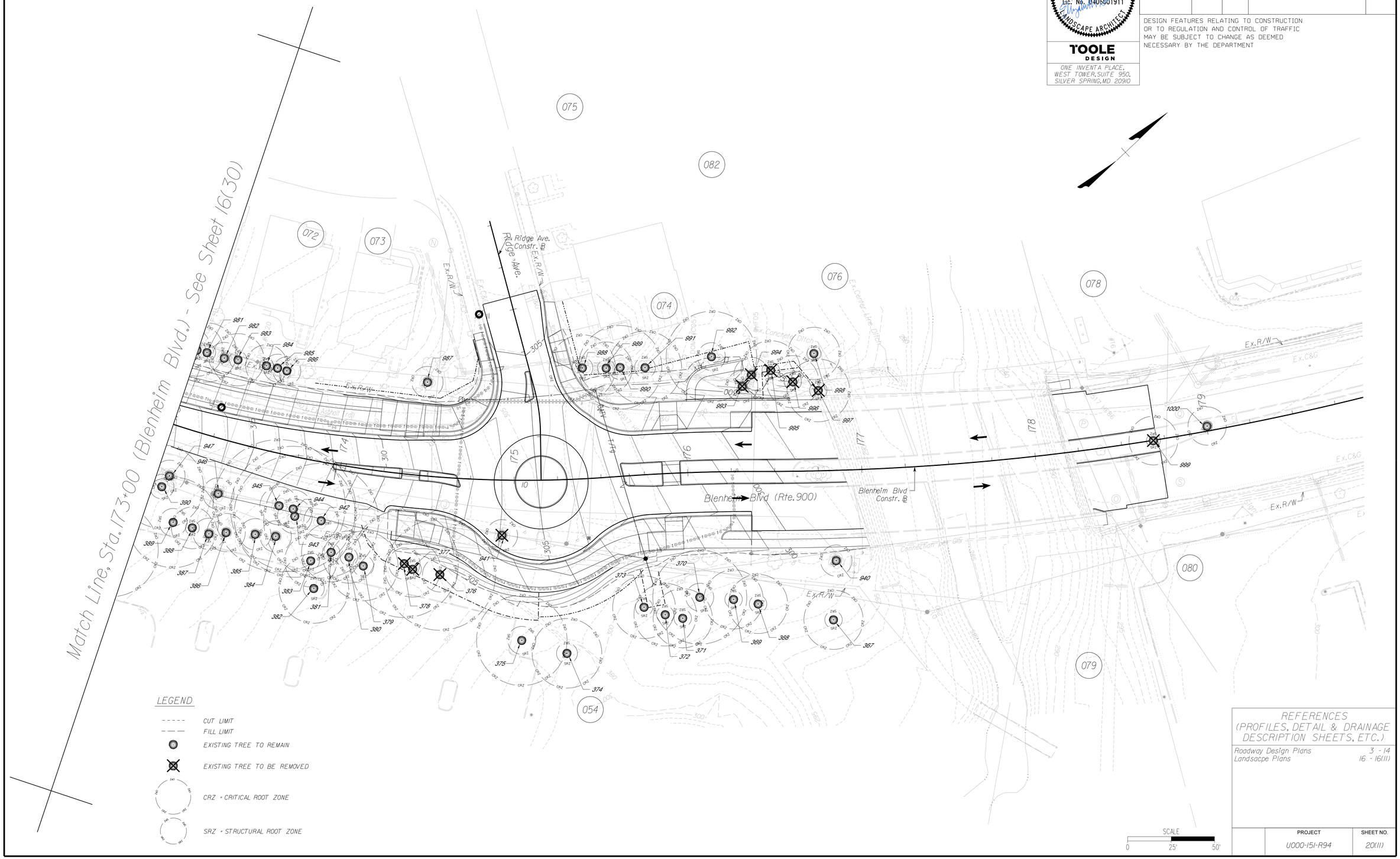

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EXISTING TREE CONDITION CHART

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, OverheadUtiilities, 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	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
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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	

COMMONWEALTH OF VIRGINIA
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SILVER SPRING, MD 20910

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

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PROJECT	SHEET NO.
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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

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
PHONE: 301.927.1900
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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	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

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

FINAL PLANS

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")	

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COMMONWEALTH OF VIRGINIA
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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

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

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

FINAL PLANS

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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

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(17)

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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	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

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	

TOOLE DESIGN
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ONE INVENTA PLACE,
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	20(19)

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(19)

FINAL PLANS

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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	Yes
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	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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

PROJECT	SHEET NO.
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FINAL PLANS

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ONE INVENTA PLACE,
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SILVER SPRING, MD 20910
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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	

COMMONWEALTH OF VIRGINIA
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TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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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+)	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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

TOOLE DESIGN
ONE INVENTA PLACE,
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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")	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
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TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

FINAL PLANS

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ONE INVENTA PLACE,
WEST TOWER, SUITE 950
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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	GirdlingRootCollarnotesize, 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	GirdlingRootCollarnotesize, 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, GirdlingRootCollarnotesize, 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	

COMMONWEALTH OF VIRGINIA
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LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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FINAL PLANS

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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			

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

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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")	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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

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")	

TOOLE DESIGN
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COMMONWEALTH OF VIRGINIA
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TOOLE DESIGN
ONE INVENTA PLACE, WEST TOWER, SUITE 950, SILVER SPRING, MD 20910

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

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

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

FINAL PLANS

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950
SILVER SPRING, MD 20910
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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"x15"	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	

COMMONWEALTH OF VIRGINIA
ELIZABETH M. GILLIAM
Lic. No. 0406001911
LANDSCAPE ARCHITECT

TOOLE DESIGN
ONE INVENTA PLACE,
WEST TOWER, SUITE 950,
SILVER SPRING, MD 20910

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

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

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FINAL PLANS

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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")	

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