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' 45.18" (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.

NIKHIL V. DESHPANDE Lic. No. 045430 PROFESSIONAL ENGINEER COMMONWEALTH OF VIRGINIA
Rinker Design Associates, P.C. Virginia Beach, Virginia HYDRAULICS ENGINEER

MARK A. GUNN Lic. No. 038323 PROFESSIONAL ENGINEER COMMONWEALTH OF VIRGINIA
Rinker Design Assoc. P.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

ASSESSMENT 2.531 ACRES
TITLE REPORT 2.609 ACRES LE 0.0684 AC LE 0.1202 AC = 2.4204 AC
57-2-02-172
BOARD OF SUPERVISORS OF FAIRFAX COUNTY, VIRGINIA
DB 10181 PG 151
001

57 2 27 B
VIRGINIA ACQUISITION NO. 1 LLC
DB 9806 PG 40
083

003
57-2-02-175A
CITY OF FAIRFAX, VIRGINIA
DB 5822 PG 644

004
57-2-02-180
TRUSTEES OF THE NORTHERN VIRGINIA MENNONITE CHURCH
DB 9992 PG 1554

57 2 02 03 00A
FARRCROFT HOMEOWNERS ASSOCIATION, INC.
DB 11390 PG 830
002

Begin Project / Begin Construction
Proj. No. U000-151-R94, PE-101
Sta. 100+36.48

Begin Project
Proj. No. U000-151-R94, RW-201
Sta. 100+01.57

Begin Project
Proj. No. U000-151-R94, C-501
Sta. 101+53.80

Match Line, Sta. 104+75.00 (Blenheim Blvd.) - See Sheet 4

Layton Hall Dr. Constr. @
Blenheim Blvd Constr. @
Farrcroft Dr. Constr. @
Blenheim Blvd
Layton Hall Dr.
Farrcroft Dr.

See Bus Stop Detail I on Sheet 1H(39)
See Intersection Detail I on Sheet 1H
See Bus Stop Detail I on Sheet 1H(39)
D-1 (Fence & Retaining Wall)
Prop. Verizon, Dominion, and Cox Easement

S 67°40'47" E
N 22°19'13" E
N 67°40'47" W
S 22°42'57" W 365.88'
S 74°20'35" E 321.17'
S 73°10'20" E
N 74°29'11" W
S 26°14'29" W 18.51'
S 80°20'26" E 10.58'
N 69°33'59" E 12.72'
N 73°40'41" W 23.51'
S 57°30'19" E
S 57°09'40" W 12.11'
N 24°09'08" W 30.09'
N 20°10'18" E 16.64'
N 20°10'18" E 252.87'
N 69°19'42" W 23.25'
N 78°26'26" E 16.48'

Ex. Brick Columns w/Metal Fence
Ex. Brick Wall w/Metal Railing
Ex. Covered Bus Stop
Ex. Bus Shelter Easement D.B. 11390 Pg. 830
Ex. Brick Walk
Ex. Stone Wall w/Metal Railing
Ex. Metal Sign
Ex. Wooden Sign
Ex. Brick Sign
Ex. Traffic Cabinet
Ex. Electric Handhole
Ex. Crosswalk
Ex. Curb Ramp
Ex. Conc. Apron
Ex. Conc. Walk
Ex. Conc. Sidewalk
Ex. Cape Sw
Ex. C&G
Ex. R/W
Ex. E.P.
Ex. 8' SAN
Ex. 10' Sanitary Sewer Esmt DB 2829 Pg 360
Ex. 15' Ingress Egress Esmt. DB 1281 Pg 538
Approx. Loc. Ex. VEPCO Esmt DB 2550 Pg 106
Approx. Loc. Ex. VEPCO Esmt DB 1484 Pg 10
Ex. 5' Verizon Esmt DB 21062 Pg 1824
Approx. Loc. Ex. Sanitary Easement D.B. 11390 Pg. 830
Ex. 12' Trail Easement D.B. 11390 Pg. 830
Ex. 20' Storm Drain Easement D.B. 11390 Pg. 830
Ex. 10' Storm Drain Easement D.B. 11390 Pg. 830
Ex. Conservation Easement D.B. 10486 Pg. 104
Gas Street Light
Light Bollard
Cobra TMOD 140N DOM #TM70
Prop. Right of Way
Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
Prop. Temporary Construction Ease. (Dot-Dashed Lines)
Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
Prop. Permanent Utility Ease. (Dot-Dashed Lines, See Label for Owner)
Prop. Permanent Traffic Signal Ease. (Dot-Dashed Lines)
Prop. Perpetual Street Ease. (Dot-Dashed Lines)
Prop. Right of Way Monument RM-2

Roadway Design Legend

Key Legend
1 — Denotes Sl'd.CG-6 Req'd.
2 — Denotes Sl'd.Radial CG-6 Req'd.
3 — Denotes Sl'd.CG-9.Type D Req'd.
4 — Denotes Sl'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 Sl'd.6' FE-CL Req'd.
10 — Denotes Sl'd.MS-1w/CG-2 Type Curb Req'd.
11 — Denotes Sl'd.CG-2 Req'd.
12 — Denotes Tle to Existing Driveway
13 — Denotes Tle to Ex.Conc.Sidewalk
14 — Denotes Tle to Ex.Curb and Gutter
15 — Denotes Sl'd.HR-1 Ty.2 Req'd.
16 — Denotes Mod.CG-3 Req'd. See Sheet 1G(2) for Details
17 — Denotes Mod.CG-2 Req'd. See Sheet 1H(46) for Details
18 — Denotes Mod.CG-6 Req'd. See Sheet 2A(6) for Details
19 — Denotes Full Depth Sawcut
20 — Denotes Prop.Brick Walkway
21 — Denotes Tle to Ex.Brick Walkway
22 — Denotes Tle to Ex.Asphalt Trail
23 — Denotes Prop.Stone Walkway
24 — Denotes Tle to Ex.Stone Walkway
25 — Denotes Sl'd.MS-2 Req'd.
26 — Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 — Denotes Directional DWS
28 — Denotes Sl'd.MS-1w/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 — Sl'd.UD-4 Req'd.
4 — Sl'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
1 Prop. Right of Way
2 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
3 Prop. Temporary Construction Ease. (Dot-Dashed Lines)
4 Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
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 Ph1 & Ph2	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

4/24/2025

FINAL PLANS

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

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

NIKHIL V. DESHPANDE
Lic. No. 045430
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

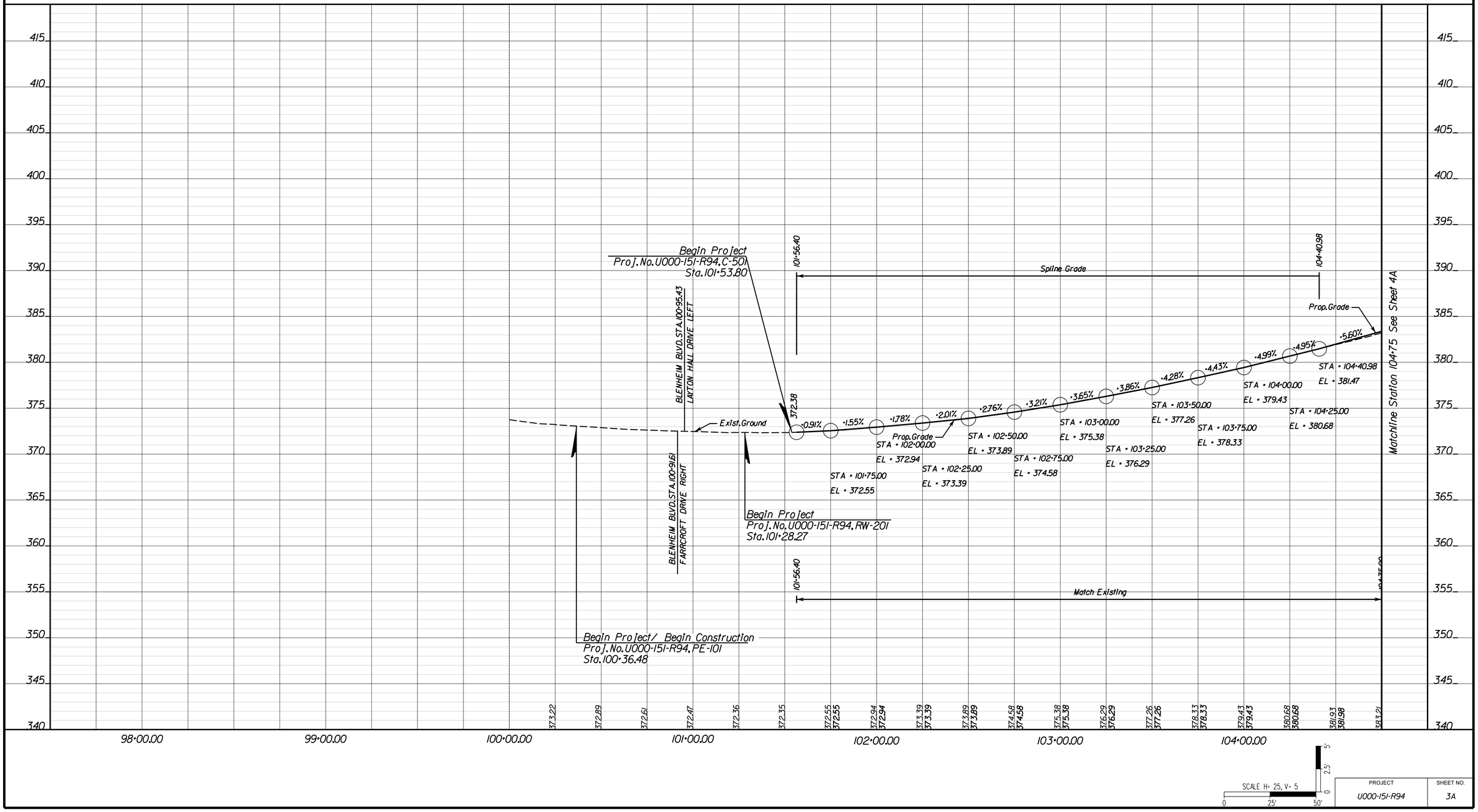
Rinker Design Associates, P.C.
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MARK A. GUNN
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PROFESSIONAL ENGINEER

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

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

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PROJECT	SHEET NO.
U000-151-R94	3A

4/22/2025

FINAL PLANS

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SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
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Rinker Design Assoc. P.C. Manassas, Virginia ROADWAY ENGINEER

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

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

C2
Curve BLENHEIM2
PI = 106+22.24
DELTA = 4°15' 11.69" (RT)
D = 2° 59' 31"
T = 71.11'
L = 142.16'
R = 1,915.00'
PC = 105+51.13
PT = 106+93.29
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C3
Curve BLENHEIM3
PI = 109+36.61
DELTA = 16° 33' 19.46" (RT)
D = 3° 28' 21"
T = 240.05'
L = 476.76'
R = 1,650.00'
PC = 106+96.55
PT = 111+73.32
V = 30 mph
E = -2.0% (U.L.S.)
Lt/Lr = See Profile for Req'd. Length

C29
Curve ENTR_10699LT2
PI = 10+79.65
DELTA = 8° 25' 17.87" (RT)
D = 10° 25' 03"
T = 40.49'
L = 80.84'
R = 550.00'
PC = 10+39.16
PT = 11+20.00

C30
Curve ENTR_10699LT1
PI = 10+20.00
DELTA = 1° 12' 36.78" (RT)
D = 11° 27' 33"
T = 5.28'
L = 10.56'
R = 500.00'
PC = 10+14.72
PT = 10+25.28

4A POC Blenheim Boulevard, Sta. 106+99.05
POT Sherwood Comm. Centre Entr., Sta. 10+00.00
Delta = 90°00'00" Lt.

POT Sherwood Community Center Entr. Constr. ℄

Sherwood Community Center Entr.

N 50° 25' 02" W

N 38° 17' 10" E

N 34° 01' 58" E

Blenheim Blvd

Blenheim Blvd Constr. ℄

Match Line, Sta. 104+75.00 (Blenheim Blvd.) - See Sheet 3

Match Line, Sta. 111+50.00 (Blenheim Blvd.) - See Sheet 5

Van Dyck Park Entr.

Asphalt Trail

See Intersection Detail 2 on Sheet 1H(2).

See Intersection Detail 3 on Sheet 1H(4).

Prop. Verizon, Dominion, and Cox Easement

Existing Trees not to be Impacted

D-2 (Fence)
D-21 (Light)
D-22 (Light)
D-3 (Sign)

Ex. R/W
Ex. C&G SW
Ex. Gravel Shoulder
Ex. Asphalt Drive
Ex. 20' Sanitary Easement
Ex. 8" Water Main
Ex. 12" Water Main
Ex. 8" Gas Main
Ex. 6" Gas Main
Ex. Overhead Utility Lines
Ex. Underground Utility Lines

R=1877.08' L=34.99'
R=1864.86' L=298.52'
R=1943.08' L=368.58'

Outfall Easement For 2 Dia 3060 +80

Approx. Loc. VEPCO Esmt DB 2207 PG 445

57-2-02-175A
CITY OF FAIRFAX, VIRGINIA
DB 5822 PG 644
003

57-2-02-175
CITY OF FAIRFAX, VIRGINIA
DB 3026 PG 519
005

57-2-02-177
THE MOST REVEREND MICHAEL F. BURBIDGE, BISHOP OF THE CATHOLIC DIOCESE OF ARLINGTON
DB 1077 PG 458
DB 3211 PG 56
008

57-2-02-176
THE CITY OF FAIRFAX, VIRGINIA
DB 2971 PG 169
DB 3211 PG 56
084

57-2-02-180
TRUSTEES OF THE NORTHERN VIRGINIA MENNONITE CHURCH
DB 9992 PG 1554
004

57-2-02-179
TRUSTEES OF THE FIRST CHURCH OF CHRIST, SCIENTIST, FAIRFAX, VIRGINIA
DB 1766 PG 189
006

57-2-02-182
SCHOOL BOARD OF THE CITY OF FAIRFAX, VIRGINIA
DB 5442 PG 342
007

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. CG-3 Req'd. See Sheet 1G(2) for Details
17 — Denotes Mod. CG-2 Req'd. See Sheet 1H(46) for Details
18 — Denotes Mod. CG-6 Req'd. See Sheet 2A(6) for Details
19 — Denotes Full Depth Sawcut
20 — Denotes Prop. Brick Walkway
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 1B 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 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	1I - 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

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4/24/2025

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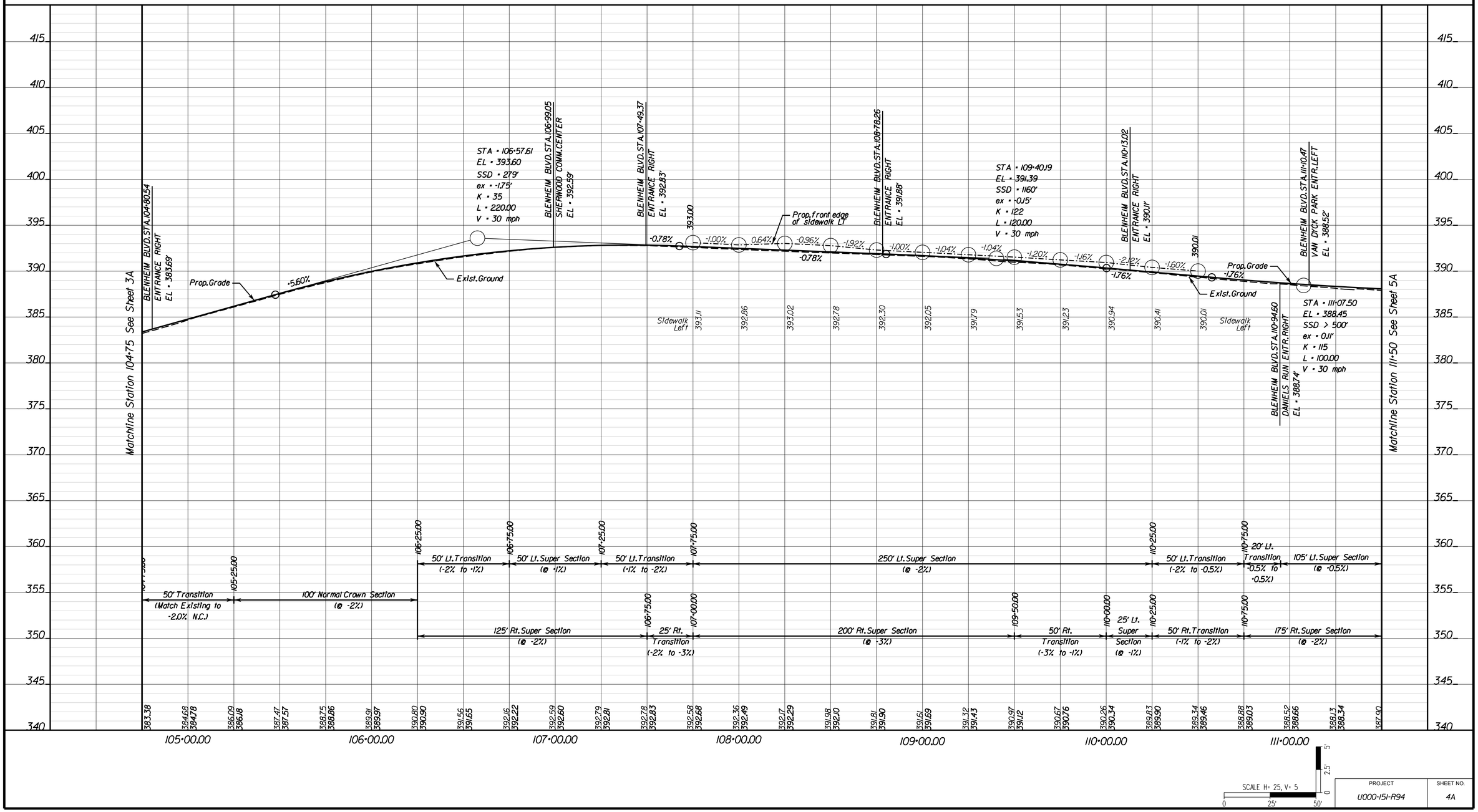
BLENHEIM BOULEVARD PROFILE

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

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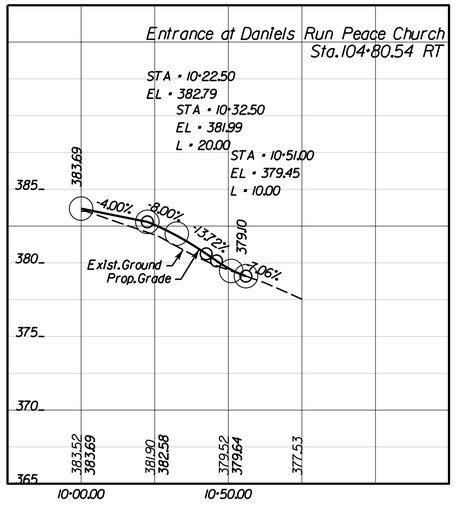
SIDE ROAD AND ENTRANCE PROFILES

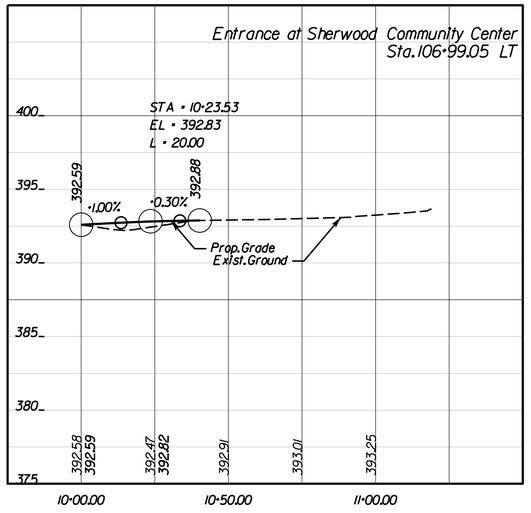
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

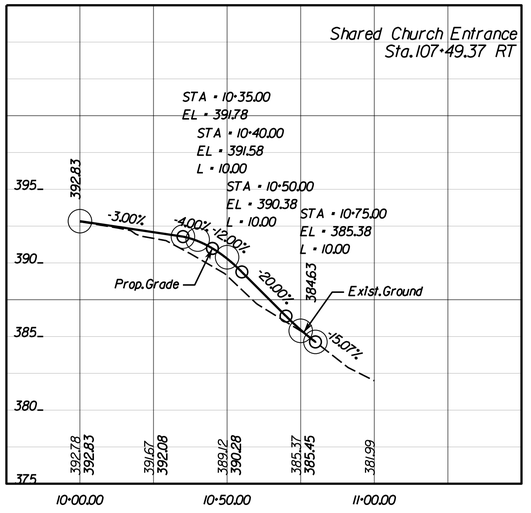
Rinker Design Assoc. P.C.
Manassas, Virginia
ROADWAY ENGINEER

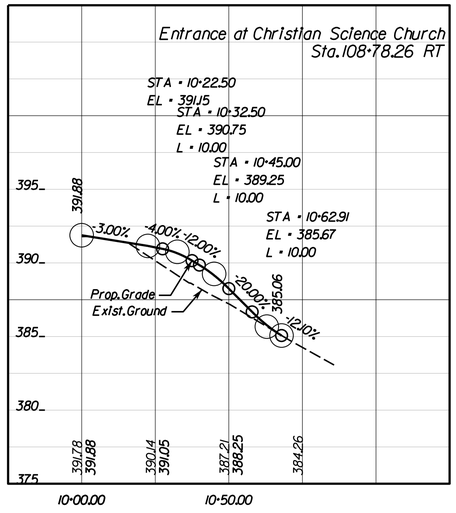
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	4B

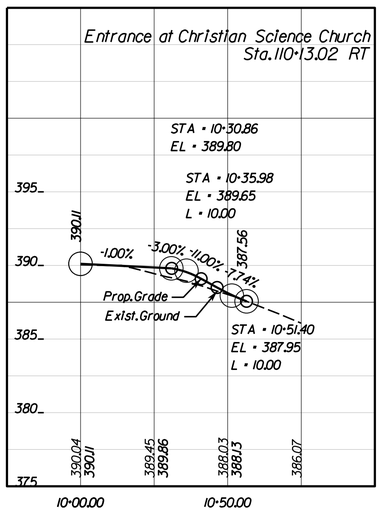
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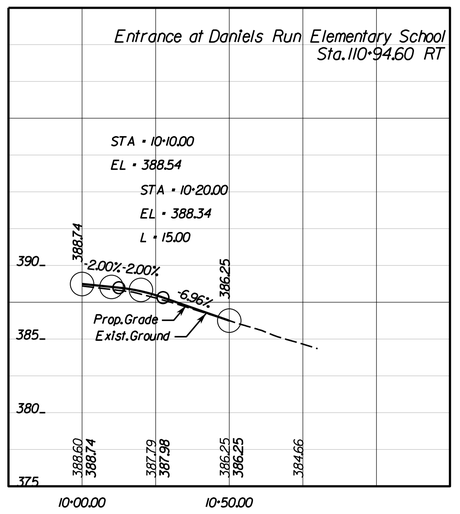


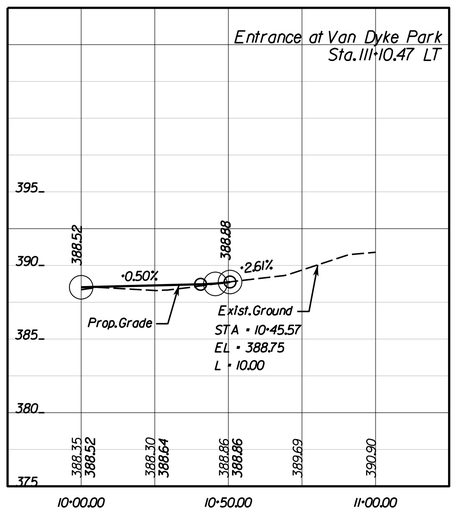












SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	4B

4/22/2025

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DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

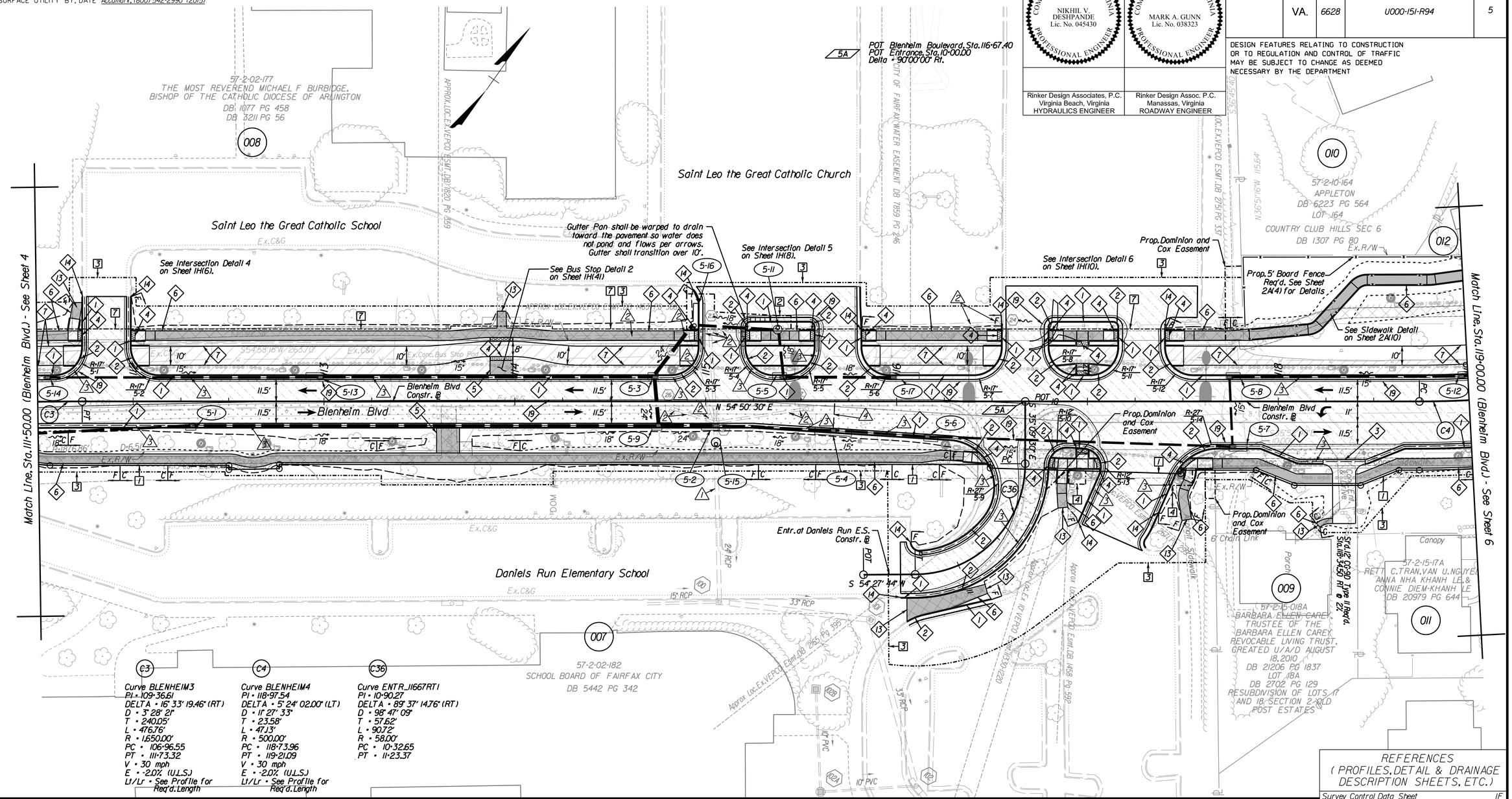
COMMONWEALTH OF VIRGINIA — NIKHIL V. DESHPANDE — Lic. No. 045430 — PROFESSIONAL ENGINEER

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

Rinker Design Associates, P.C.	Rinker Design Assoc. P.C.
Virginia Beach, Virginia	Manassas, Virginia
HYDRAULICS ENGINEER	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.CG-3 Req'd. See Sheet 1G(2) for Details
17 — Denotes Mod.CG-2 Req'd. See Sheet 1H(46) for Details
18 — Denotes Mod.CG-6 Req'd. See Sheet 2A(6) for Details
19 — Denotes Full Depth Sawcut
20 — Denotes Prop.Brick Walkway
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
1 — Prop. Right of Way
2 — Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
3 — Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
4 — Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
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(5)
Intersection Detail Plan	1H(6) - 1H(11)
Bus Stop Detail Plan	1H(41)
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	5A
Profile Entrances	5B
Pavement Marking & Signing Plan	15(5)
Roadway Lighting Plan	18(5)
Existing Tree Plan	20(2)-20(3)

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

FINAL PLANS

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4/24/2025

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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

NIKHIL V. DESHPANDE
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PROFESSIONAL ENGINEER

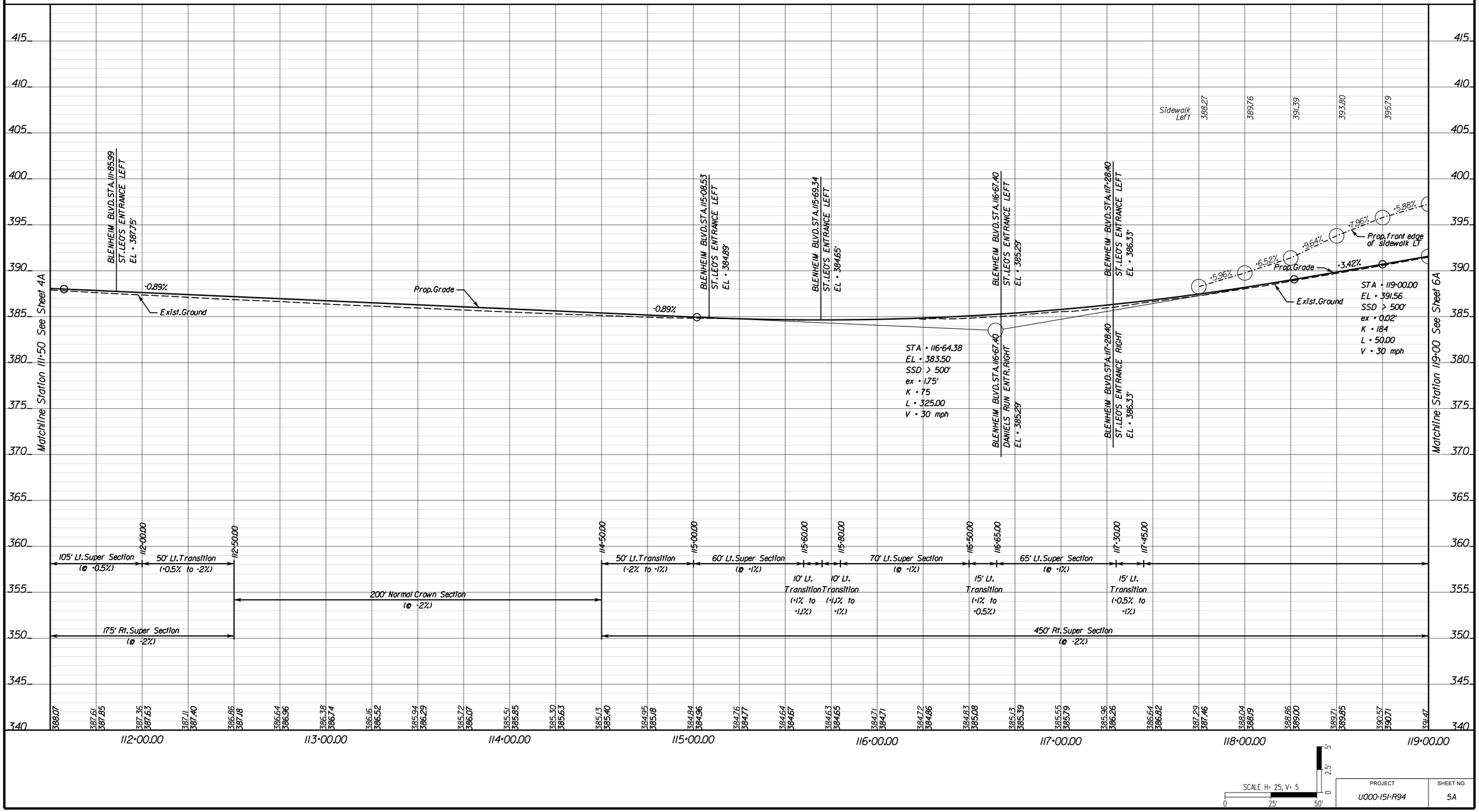
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PROJECT	SHEET NO.
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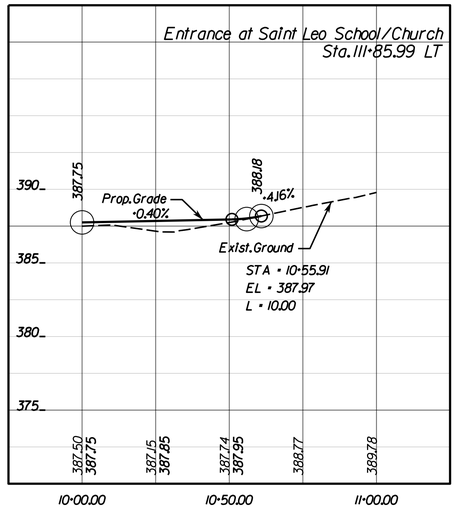
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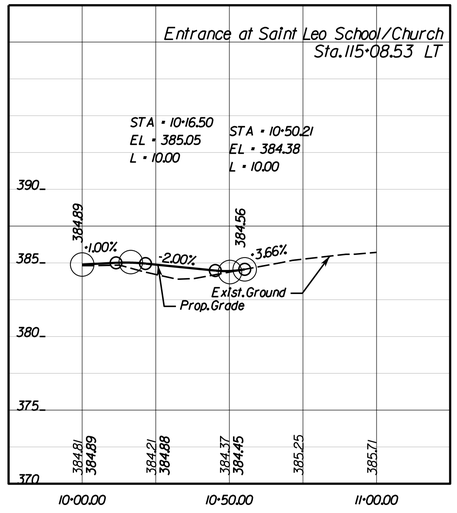
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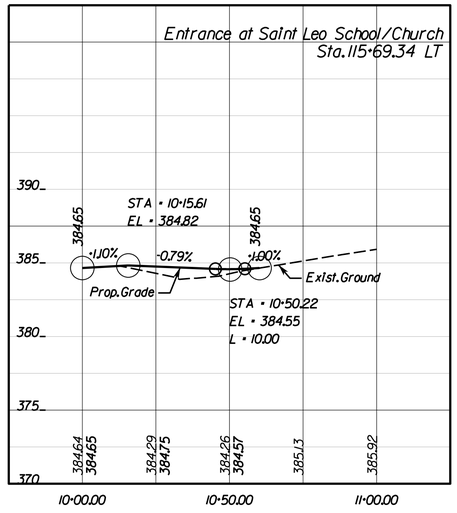
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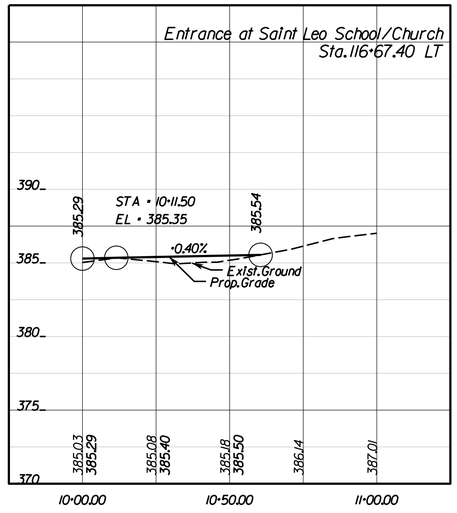
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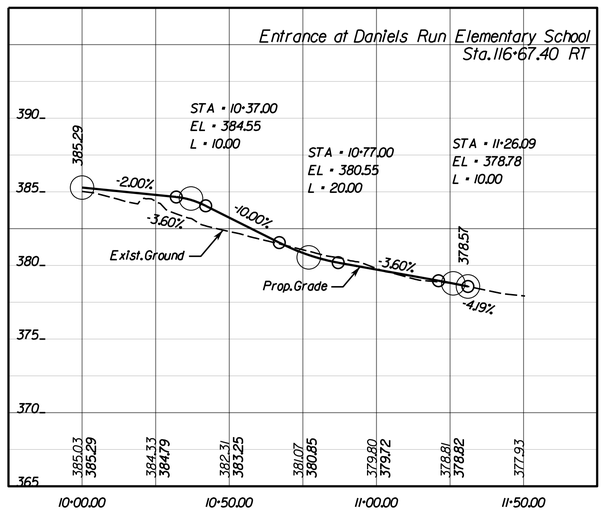
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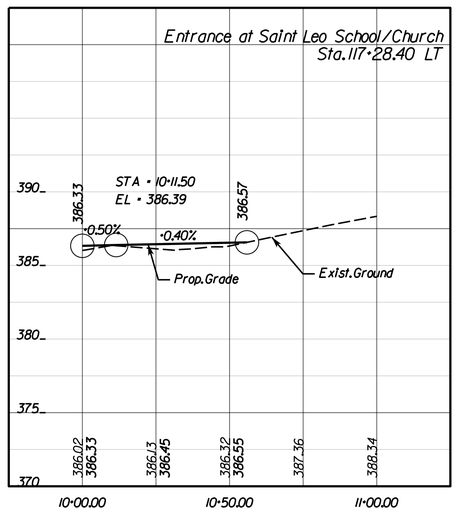


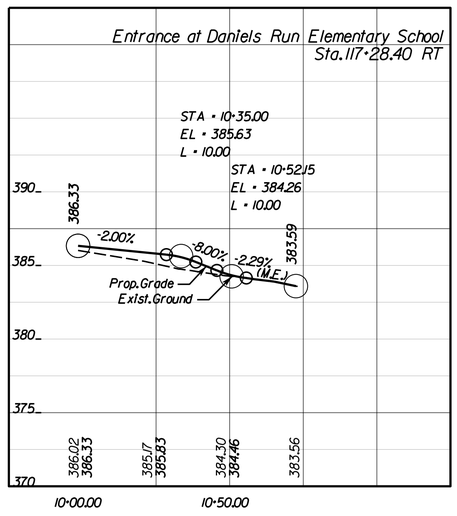


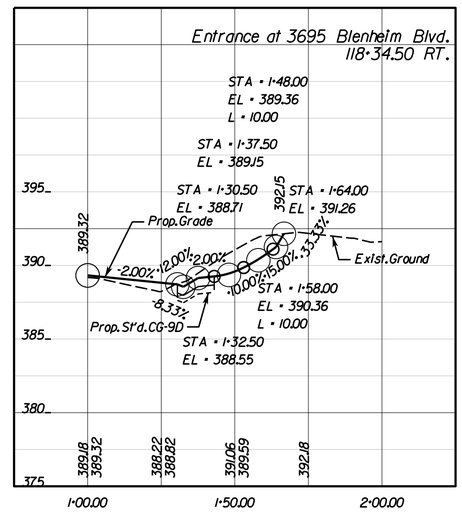












SCALE H: 25, V: 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	5B

4/22/2025

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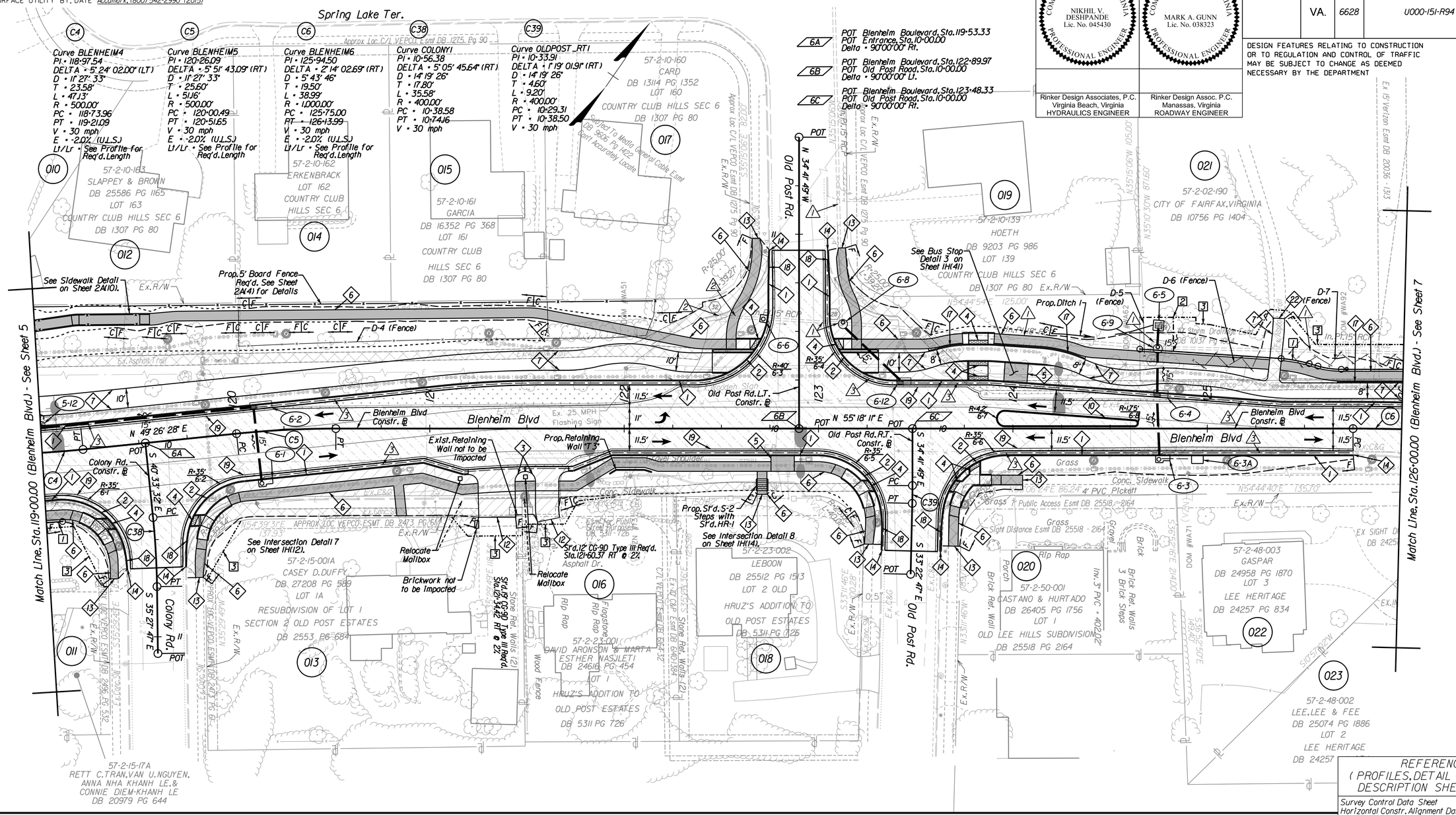
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	6

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


Spring Lake Ter.
Curve BLENHEIM4 PI • 118+97.54 DELTA • 5° 24' 02.00" (LT) D • 11° 27' 33" T • 23.58' L • 47.13' R • 500.00' PC • 118+73.96 PT • 119+21.09 V • 30 mph E • -2.0% (U.L.S.) Lt/Lr • See Profile for Req'd.Length
Curve BLENHEIM5 PI • 120+26.09 DELTA • 5° 51' 43.09" (RT) D • 11° 27' 33" T • 25.60' L • 51.16' R • 500.00' PC • 120+00.49 PT • 120+51.65 V • 30 mph E • -2.0% (U.L.S.) Lt/Lr • See Profile for Req'd.Length
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
Curve COLONY1 PI • 10+56.38 DELTA • 5° 05' 45.64" (RT) D • 14° 19' 26" T • 17.80' L • 35.58' R • 400.00' PC • 10+38.58 PT • 10+74.16 V • 30 mph
Curve OLDPOST_RT1 PI • 10+33.91 DELTA • 1° 19' 01.91" (RT) D • 14° 19' 26" T • 4.60' L • 9.20' R • 400.00' PC • 10+29.31 PT • 10+38.50 V • 30 mph
010 57-2-10-163 SLAPPEY & BROWN DB 25586 PG 1165 LOT 163 COUNTRY CLUB HILLS SEC 6 DB 1307 PG 80
011 57-2-15-001A CASEY D.DUFFY DB 27208 PG 589 LOT 1A RESUBDIVISION OF LOT 1 SECTION 2 OLD POST ESTATES DB 2553 PG 684
012 57-2-10-163 SLAPPEY & BROWN DB 25586 PG 1165 LOT 163 COUNTRY CLUB HILLS SEC 6 DB 1307 PG 80
013 57-2-23-001 DAVID ARONSON & MARTA ESTHER WASILETI DB 24616 PG 454 LOT 1 HRUZ'S ADDITION TO OLD POST ESTATES DB 5311 PG 726
014 57-2-10-162 ERKENBRACK LOT 162 COUNTRY CLUB HILLS SEC 6
015 57-2-10-161 GARCIA DB 16352 PG 368 LOT 161 COUNTRY CLUB HILLS SEC 6 DB 1307 PG 80
016 Rip Rap Flagstone Rip Rap 57-2-23-001 DAVID ARONSON & MARTA ESTHER WASILETI DB 24616 PG 454 LOT 1 HRUZ'S ADDITION TO OLD POST ESTATES DB 5311 PG 726
017 57-2-10-160 CARD DB 13114 PG 1352 LOT 160 COUNTRY CLUB HILLS SEC 6 DB 1307 PG 80
018 57-2-23-002 LEBOON DB 25512 PG 1513 LOT 2 OLD HRUZ'S ADDITION TO OLD POST ESTATES DB 5311 PG 726
019 57-2-10-139 HOETH DB 9203 PG 986 LOT 139 COUNTRY CLUB HILLS SEC 6 DB 1307 PG 80 Ex.R/W
020 Rip Rap 57-2-50-001 CASTANO & HURTADO DB 26405 PG 1756 LOT 1 OLD LEE HILLS SUBDIVISION DB 25518 PG 2164
021 57-2-02-190 CITY OF FAIRFAX, VIRGINIA DB 10756 PG 1404
022 57-2-48-003 GASPAR DB 24958 PG 1870 LOT 3 LEE HERITAGE DB 24257 PG 834
023 57-2-48-002 LEE, LEE & FEE DB 25074 PG 1886 LOT 2 LEE HERITAGE DB 24257
57-2-15-17A RETT C.TRAN, VAN U.NGUYEN, ANNA NHA KHANH LE, & CONNIE DIEM-KHANH LE DB 20979 PG 644
Blenheim Blvd
Old Post Rd.
Colony Rd.
Match Line, Sta.119+00.00 (Blenheim Blvd.) - See Sheet 5
Match Line, Sta.126+00.00 (Blenheim Blvd.) - See Sheet 7
POT Blenheim Boulevard, Sta.119+53.33 POT Entrance, Sta.10+00.00 Delta • 90°00'00" Rt.
POT Blenheim Boulevard, Sta.122+89.97 POT Old Post Road, Sta.10+00.00 Delta • 90°00'00" Lt.
POT Blenheim Boulevard, Sta.123+48.33 POT Old Post Road, Sta.10+00.00 Delta • 90°00'00" Rt.
See Sidewalk Detail on Sheet 2A(10).
See Bus Stop Detail 3 on Sheet 1H(4).
See Intersection Detail 7 on Sheet 1H(12).
See Intersection Detail 8 on Sheet 1H(14).
Prop.5' Board Fence Req'd. See Sheet 2A(4) for Details
D-4 (Fence)
D-5 (Fence)
D-6 (Fence)
D-7 (Fence)
Prop.Ditch 1
Prop.Retaining Wall 1 T.3'
Exist.Retaining Wall not to be Impacted
Brickwork not to be Impacted
Relocate Mailbox
Prop.Sl'd.S-2 Steps with Sl'd.HR-1
Sl'd.12' CG-9D Type III Reg'd. Sta.12+60.37 RT @ 2%
Sl'd.6' CG-3D Type III Reg'd. Sta.12+42.22 RT @ 2%
Ex.Asphalt Trail
Ex. 25 MPH Flashing Sign
Gravel Shoulder
Conc. Sidewalk
Grass
Gravel
Brick
Rip Rap
Brick Ret. Walls 3 Brick Steps
Brick Ret. Wall
Stone Ret. Walls (2)
Wood Fence
Ex.Curb & Gutter
Ex.R/W
Prop. Storm Drainage Easement DB 10137 Pg 1
Ex. 15" VerTon Esmt DB 20036 - 1313
Ex. 15" VerTon Esmt DB 2425 - 1313
Ex. 15" RCP
Ex. 18" RCP
Ex. 24" RCP
Ex. 30" RCP
Ex. 36" RCP
Ex. 42" RCP
Ex. 48" RCP
Ex. 54" RCP
Ex. 60" RCP
Ex. 66" RCP
Ex. 72" RCP
Ex. 78" RCP
Ex. 84" RCP
Ex. 90" RCP
Ex.

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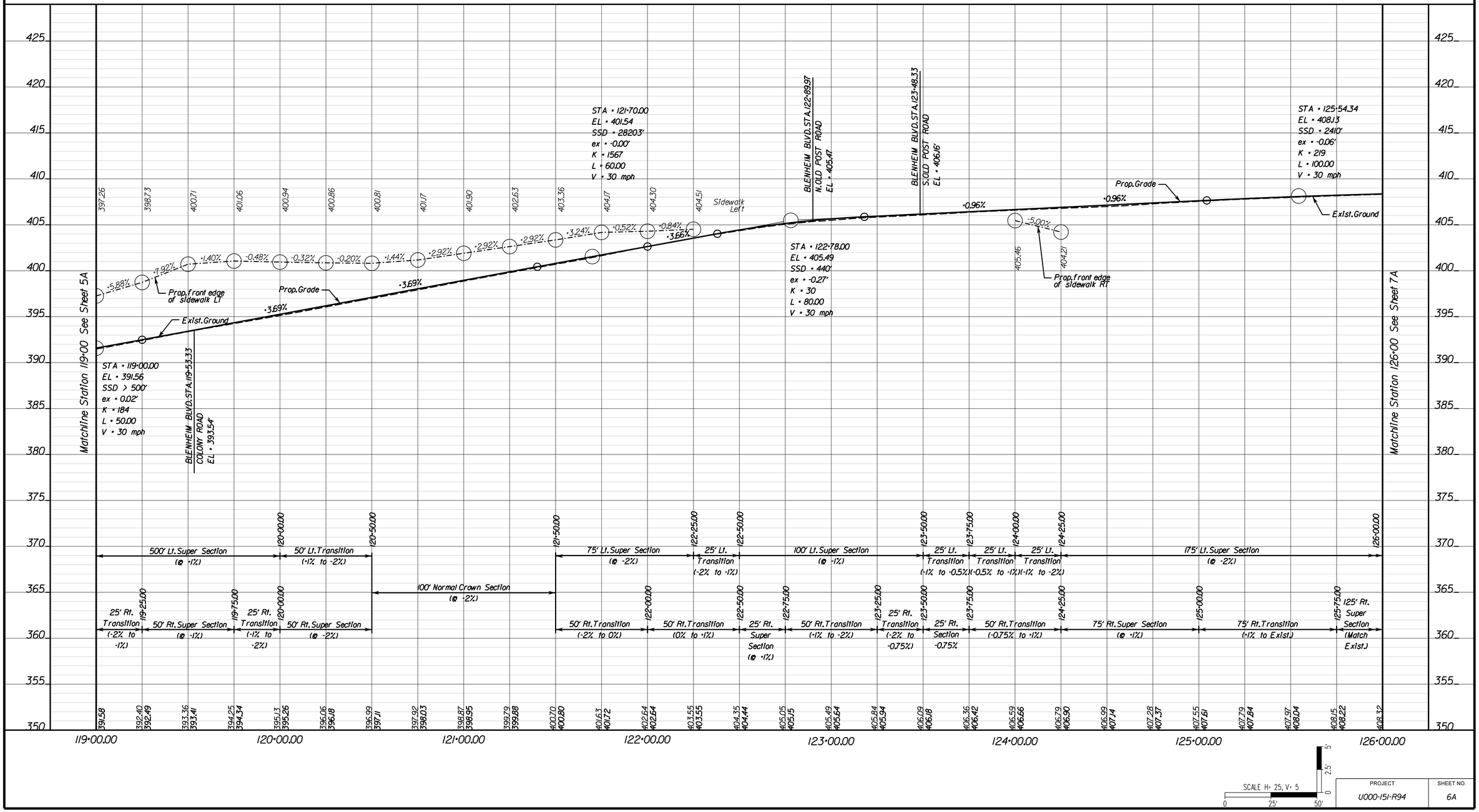
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SCALE H= 25, V= 5
0 25' 50'
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PROJECT	SHEET NO.
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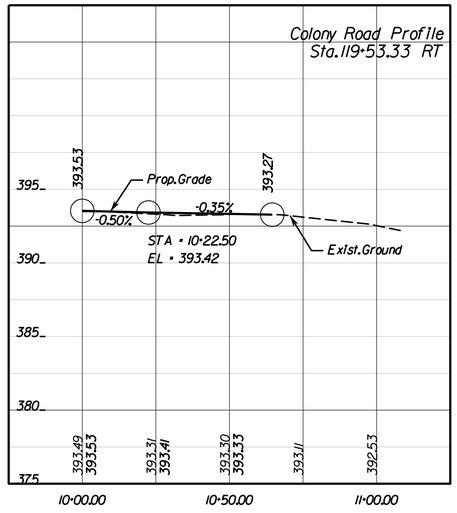
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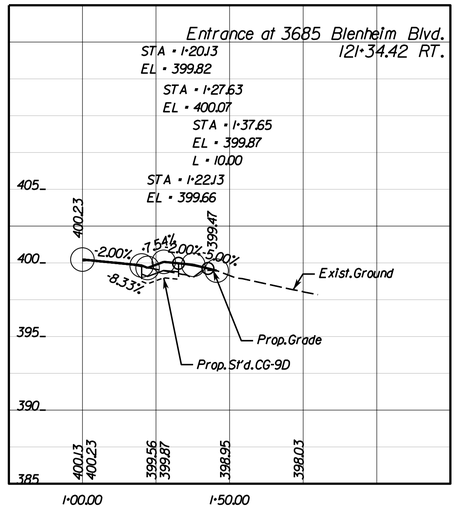
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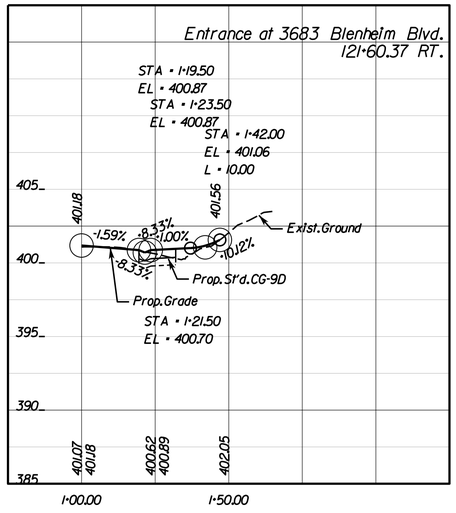
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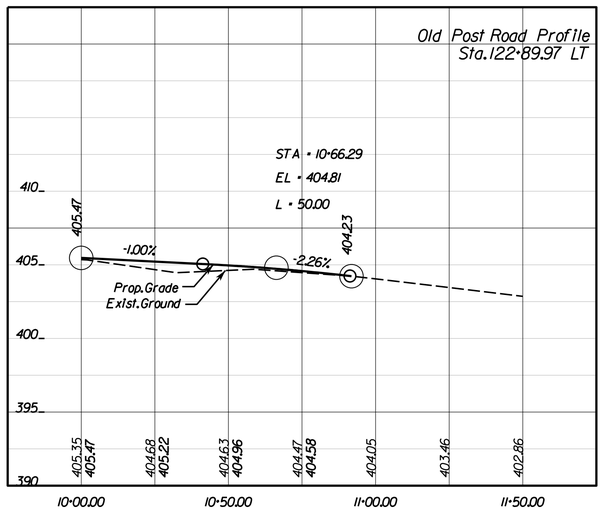
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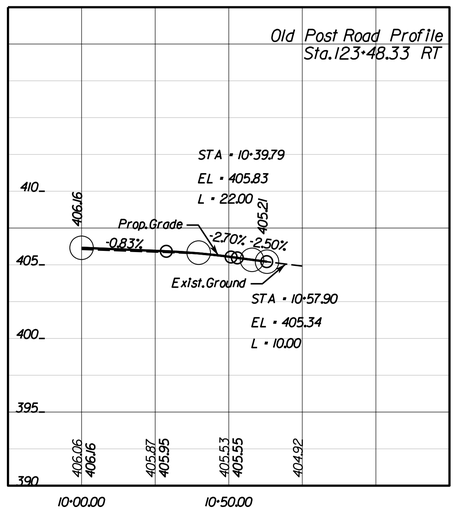
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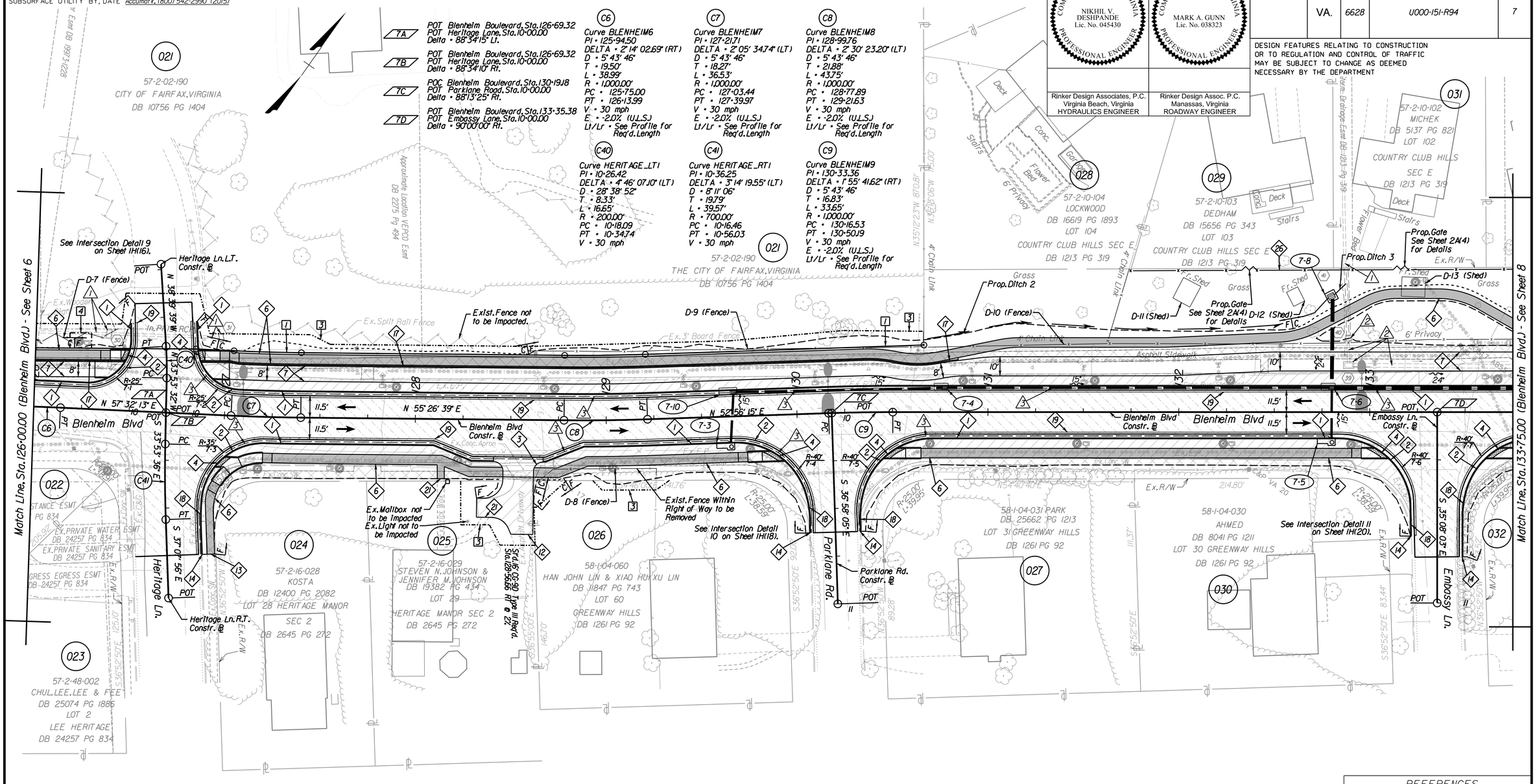
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Roadway Design Legend

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4 → Denotes Sl'd.CG-12 DWS
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16 → Denotes Mod.CG-3 Req'd. See Sheet IG(2) for Details
17 → Denotes Mod.CG-2 Req'd. See Sheet IH(16) for Details
18 → Denotes Mod.CG-6 Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
20 → Denotes Prop.Brick Walkway
21 → Denotes Tie to Ex.Brick Walkway
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23 → Denotes Prop.Stone Walkway
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25 → Denotes Sl'd.MS-2 Req'd.
26 → Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 → Denotes Directional DWS
28 → Denotes Sl'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 I8 Series Sheets for Details

Drainage Design Legend

Key Legend
1 → Denotes Drainage Item to Remain
2 → Denotes Drainage Item to Removed/ Abandoned
3 → Sl'd.UD-4 Req'd.
4 → Sl'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
1 Prop. Right of Way
2 Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
3 Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
4 Prop. Permanent Street Light Ease. (Dot-Dashed Lines)
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	IF
Horizontal Constr. Alignment Data	IG(1A) - IG(1F)
Geometric Data Sheet	IG(7)
Intersection Detail Plan	IH(16) - IH(21)
Erosion Controls Ph.I & Ph.2	IQ - IR(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	I5(7)
Roadway Lighting Plan	I8(7)
Existing Tree Plan	20(4)-20(5)

SCALE 0 25' 50' | PROJECT U000-151-R94 | SHEET NO. 7

4/24/2025

FINAL PLANS

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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

NIKHIL V. DESHPANDE
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PROFESSIONAL ENGINEER

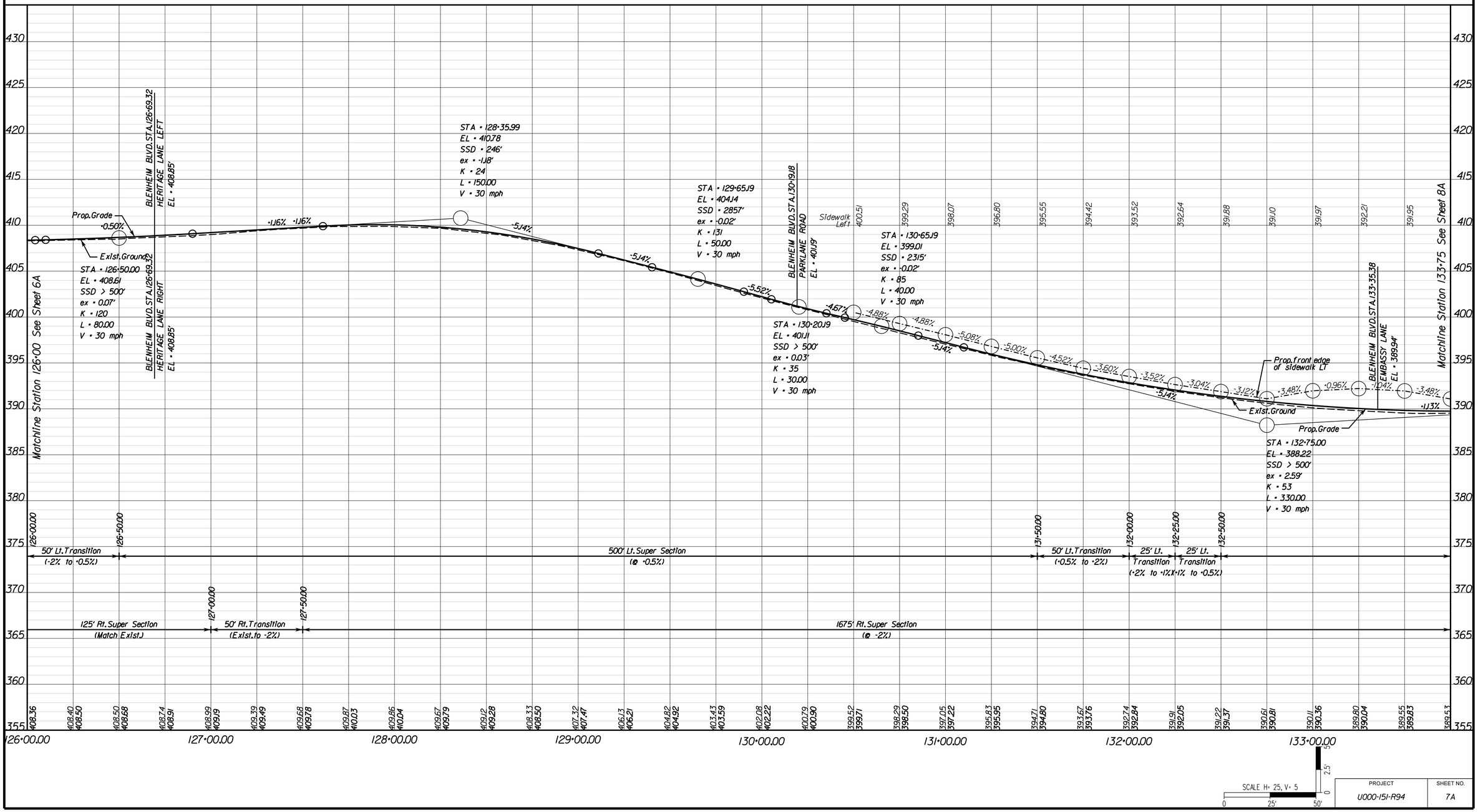
Rinker Design Associates, P.C.
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Manassas, Virginia
ROADWAY ENGINEER

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



PROJECT	SHEET NO.
U000-151-R94	7A

4/22/2025

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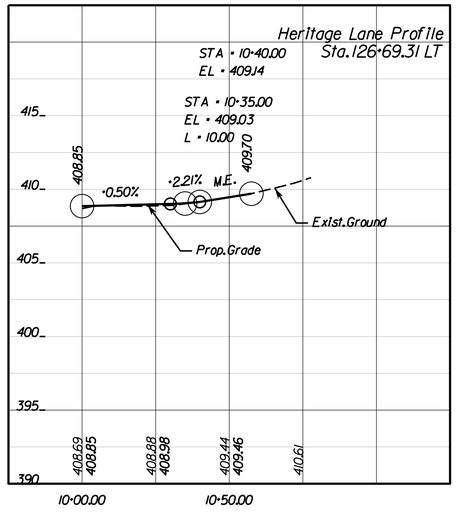
SIDE ROAD AND ENTRANCE PROFILES

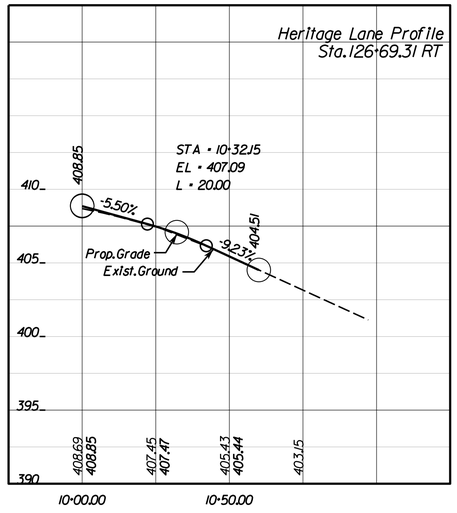
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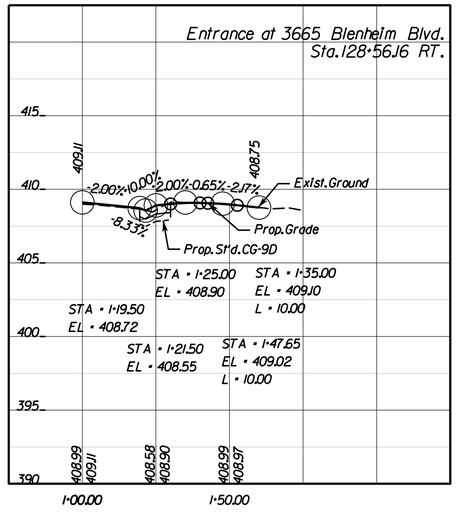
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ROADWAY ENGINEER

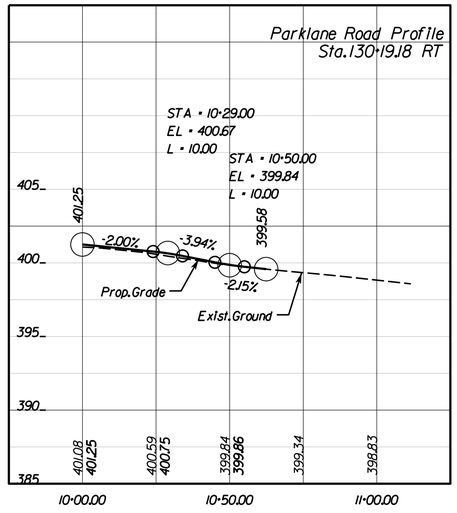
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	7B

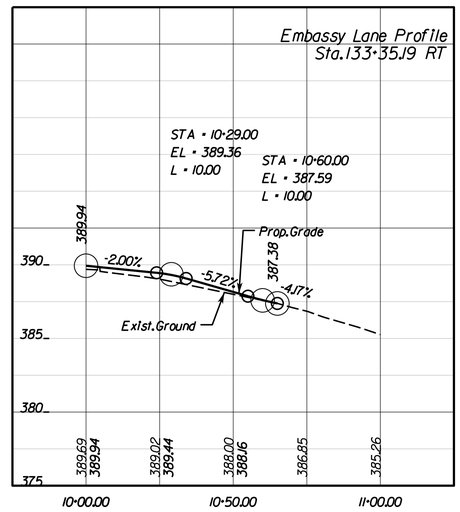
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT











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

PROJECT	SHEET NO.
U000-151-R94	7B

4/22/2025

FINAL PLANS

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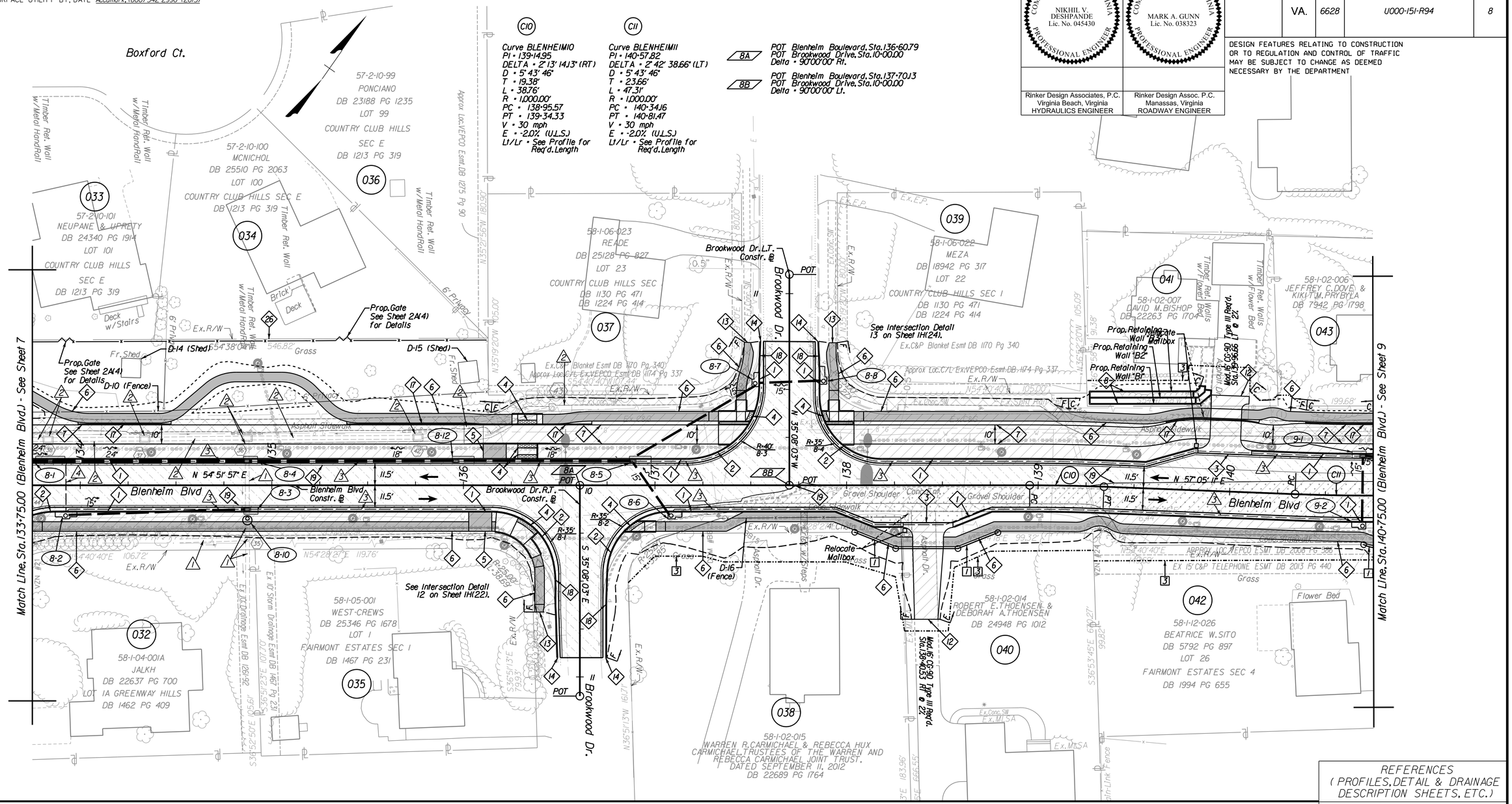
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	8

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: # → Denotes 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. CG-3 Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. CG-2 Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. CG-6 Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
20 → Denotes Prop. Brick Walkway
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-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	IF
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

4/24/2025

FINAL PLANS

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BLENHEIM BOULEVARD PROFILE

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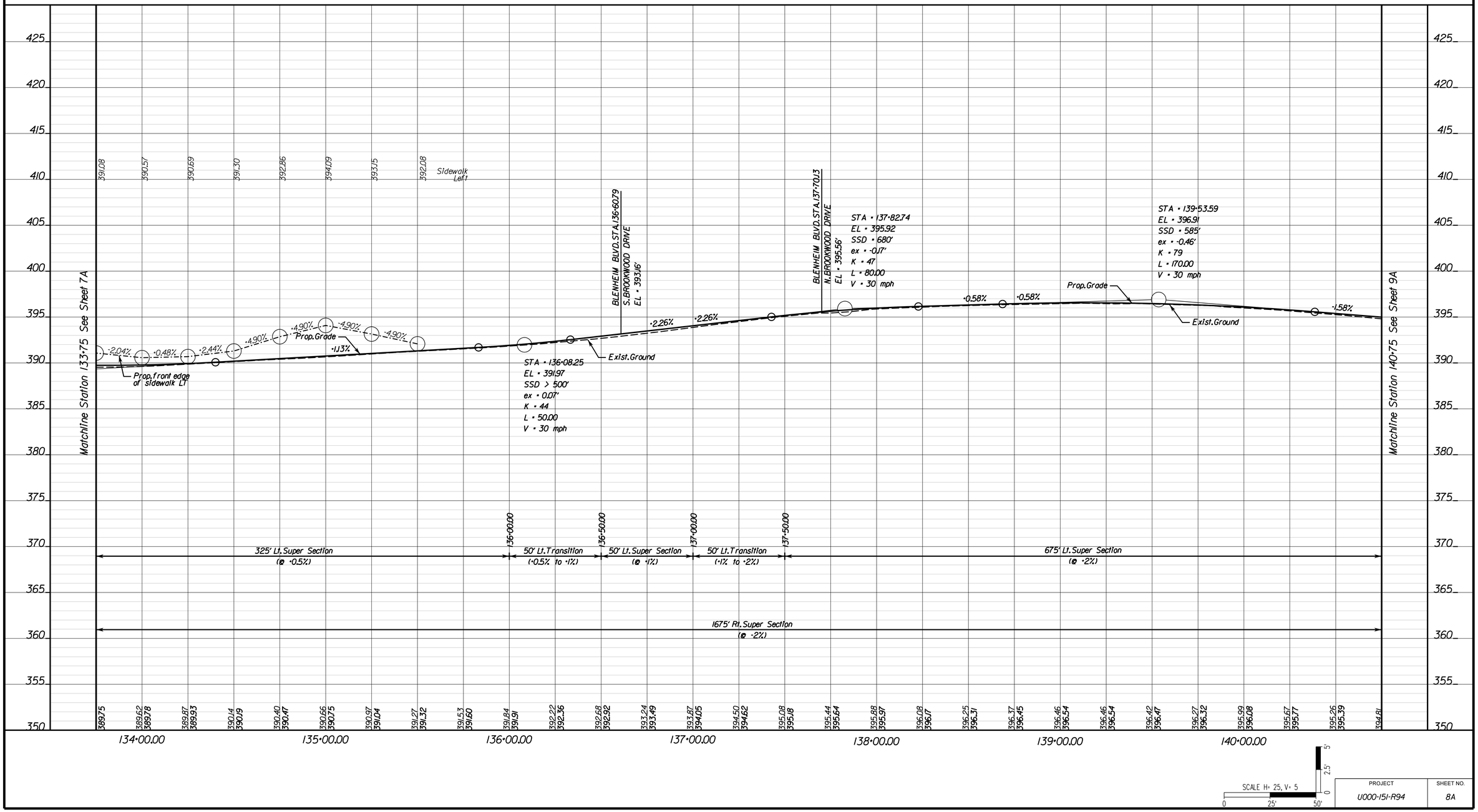
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	8A

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

4/22/2025

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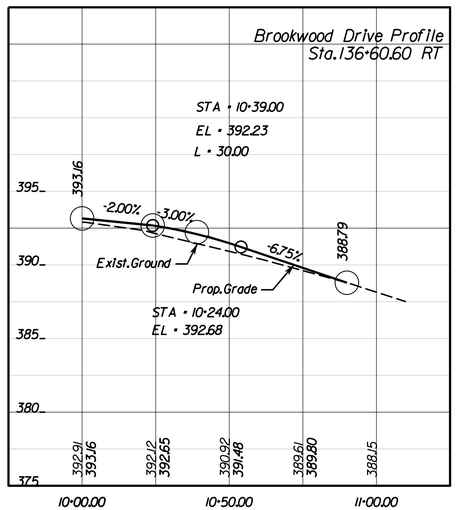
SIDE ROAD AND ENTRANCE PROFILES

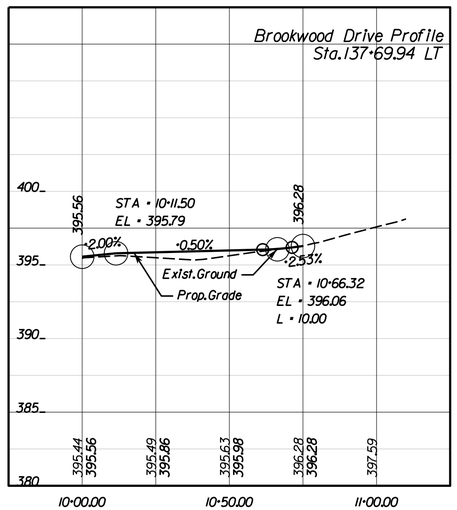
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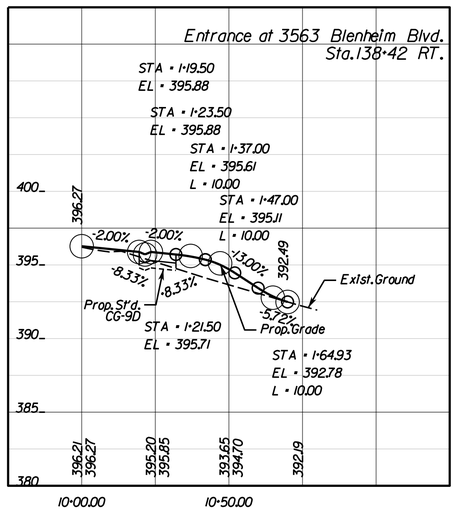
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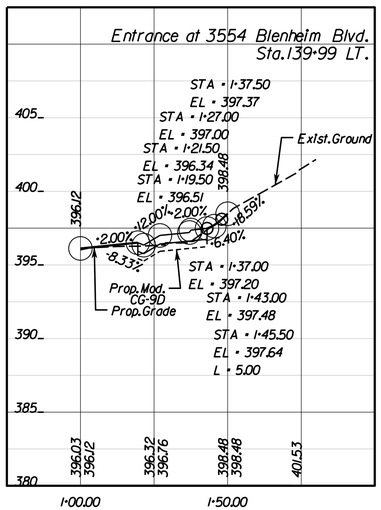
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	8B

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

PROJECT	SHEET NO.
U000-151-R94	8B

4/22/2025

FINAL PLANS

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

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 = 5.31'
L = 10.22'
R = 1,000.00'
PC = 10+42.52
PT = 10+52.75
V = 30 mph

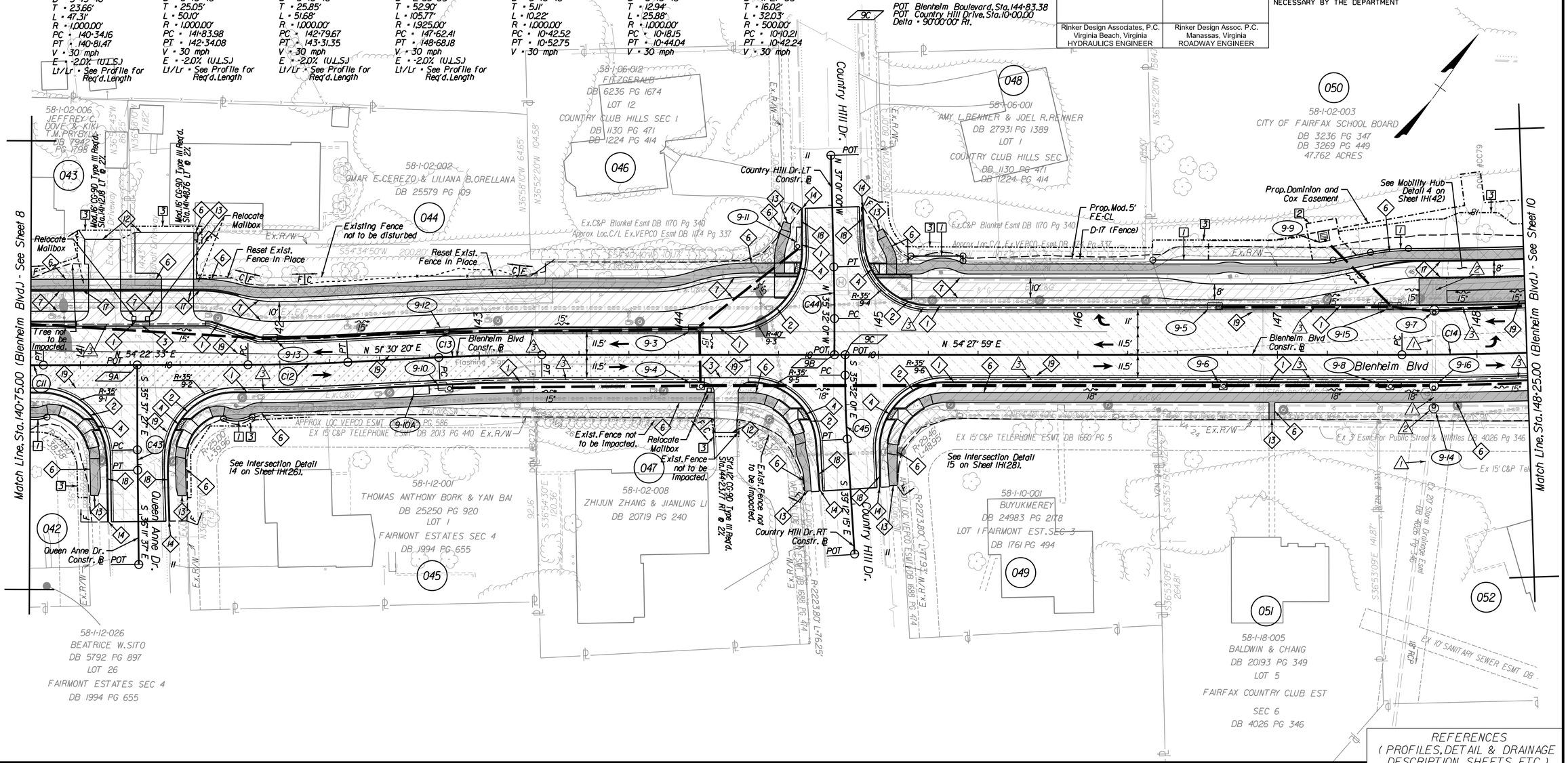
C44 — Curve COUNTRY_LT1
PI = 10+31.10
DELTA = 1° 28' 58.90" (LT)
D = 5° 43' 46"
T = 12.94'
L = 25.88'
R = 1,000.00'
PC = 10+18.15
PT = 10+44.04
V = 30 mph

C45 — Curve COUNTRY_RT1
PI = 10+26.23
DELTA = 3° 40' 13.96" (LT)
D = 11° 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.


Match Line, Sta.140+75.00 (Blenheim Blvd.) - See Sheet 8
Match Line, Sta.148+25.00 (Blenheim Blvd.) - See Sheet 10
043
044
045
046
047
048
049
050
051
052
042
58-I-02-006 JEFFREY C. DOVE & KIKI T.M.PRYBYL DB 7945 PG 1758
58-I-02-002 OMAR E.CEREZO & LILIANA B.ORELLANA DB 25579 PG 109
58-I-06-012 FITZGERALD DB 6236 PG 1674 LOT 12 COUNTRY CLUB HILLS SEC 1 DB 1130 PG 471 DB 1224 PG 414
58-I-06-001 AMY L.RENNER & JOEL R.RENNER DB 27931 PG 1389 LOT 1 COUNTRY CLUB HILLS SEC 1 DB 1130 PG 471 DB 1224 PG 414
58-I-02-003 CITY OF FAIRFAX SCHOOL BOARD DB 3236 PG 347 DB 3269 PG 449 47.762 ACRES
58-I-12-001 THOMAS ANTHONY BORK & YAN BAI DB 25250 PG 920 LOT 1 FAIRMONT ESTATES SEC 4 DB 1994 PG 655
58-I-02-008 ZHIJUN ZHANG & JIANLING LI DB 20719 PG 240
58-I-10-001 BUYUKMEREY DB 24983 PG 2178 LOT 1 FAIRMONT EST.SEC 3 DB 1761 PG 494
58-I-12-026 BEATRICE W.SITO DB 5792 PG 897 LOT 26 FAIRMONT ESTATES SEC 4 DB 1994 PG 655
58-I-18-005 BALDWIN & CHANG DB 20193 PG 349 LOT 5 FAIRFAX COUNTRY CLUB EST SEC 6 DB 4026 PG 346
Country Hill Dr.
Queen Anne Dr.
Blenheim Blvd
Relocate Mailbox
Existing Fence not to be disturbed
Reset Exist. Fence In Place
Prop.Dominion and Cox Easement
See Mobility Hub Detail 4 on Sheet 1H(42)
Prop.Mod.5' FE-CL
D-17 (Fence)
Tree not to be Impacted.
Exist.Fence not to be Impacted.
See Intersection Detail 14 on Sheet 1H(26).
See Intersection Detail 15 on Sheet 1H(28).
Ex.C&P Blanket Esmt DB 1170 Pg 340
Approx Loc.C/L Ex.VEPCO Esmt DB 1174 Pg 337
APPROX LOC VEPCO ESMT DB 1174 PG 337
APPROX LOC VEPCO ESMT DB 2013 PG 440
EX 15' C&P TELEPHONE ESMT DB 2013 PG 440
EX 15' C&P TELEPHONE ESMT DB 1660 PG 5
Ex 3' Esmt for Public Street & Utilities DB 4026 Pg 346
EX. 10' SANITARY SEWER ESMT. DB
Ex.R/W
Ex.C&P
Ex.W&D
Ex.Driveway
Flashing Sign
Mod.16'CG-90 Type III Reqd. Sta.141+21.28 Lt @ 22'
Mod.16'CG-90 Type III Reqd. Sta.141+48.76 Lt @ 22'
Mod.16'CG-90 Type III Reqd. Sta.142+63.90 Rt @ 22'
Country Hill Dr.LT Constr.@
Country Hill Dr.RT Constr.@
Blenheim Blvd Constr.@
Queen Anne Dr. Constr.@
POT
POC
PC
PT
C/L
F/C
N 54° 22' 33" E
N 51° 30' 20" E
N 54° 27' 59" E
S 35° 37' 27" E
S 35° 11' 37" E
S 35° 12' 15" E
N 36° 52' 20" W
S 54° 34' 50" W
R=35' 9-1
R=35' 9-2
R=35' 9-3
R=35' 9-4
R=35' 9-5
R=35' 9-6
R=40' 9-3
R=2500' L=39.96'
R=2346' L=46.95'
R=2273.80' L=177.93' N 49° 17' 43" W
R=2223.80' L=176.25'
9-1
9-2
9-3
9-4
9-5
9-6
9-7
9-8
9-9
9-10
9-10A
9-11
9-12
9-13
9-14
9-15
9-16
10'
11'
11.5'
15'
16'
18'
8'
24'
442
443
444
145
146
147
148
S 36°54'30" E 120.36'
S 36°53'09" E 264.81'
S 36°53'09" E 141.81'
N 36°58'10" W 64.65'
N 36°52'20" W 104.58'
N 36°52'20" W 584.17'
N 36°52'20" W 1065.60'
S 36°54'30" E 92.16'
S 36°53'09" E 20.00'
S 36°53'09" E 20.00'
S 36°53'09" E 20.00

PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Sidney Thomas, LS, (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

NIKHIL V. DESHPANDE
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COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

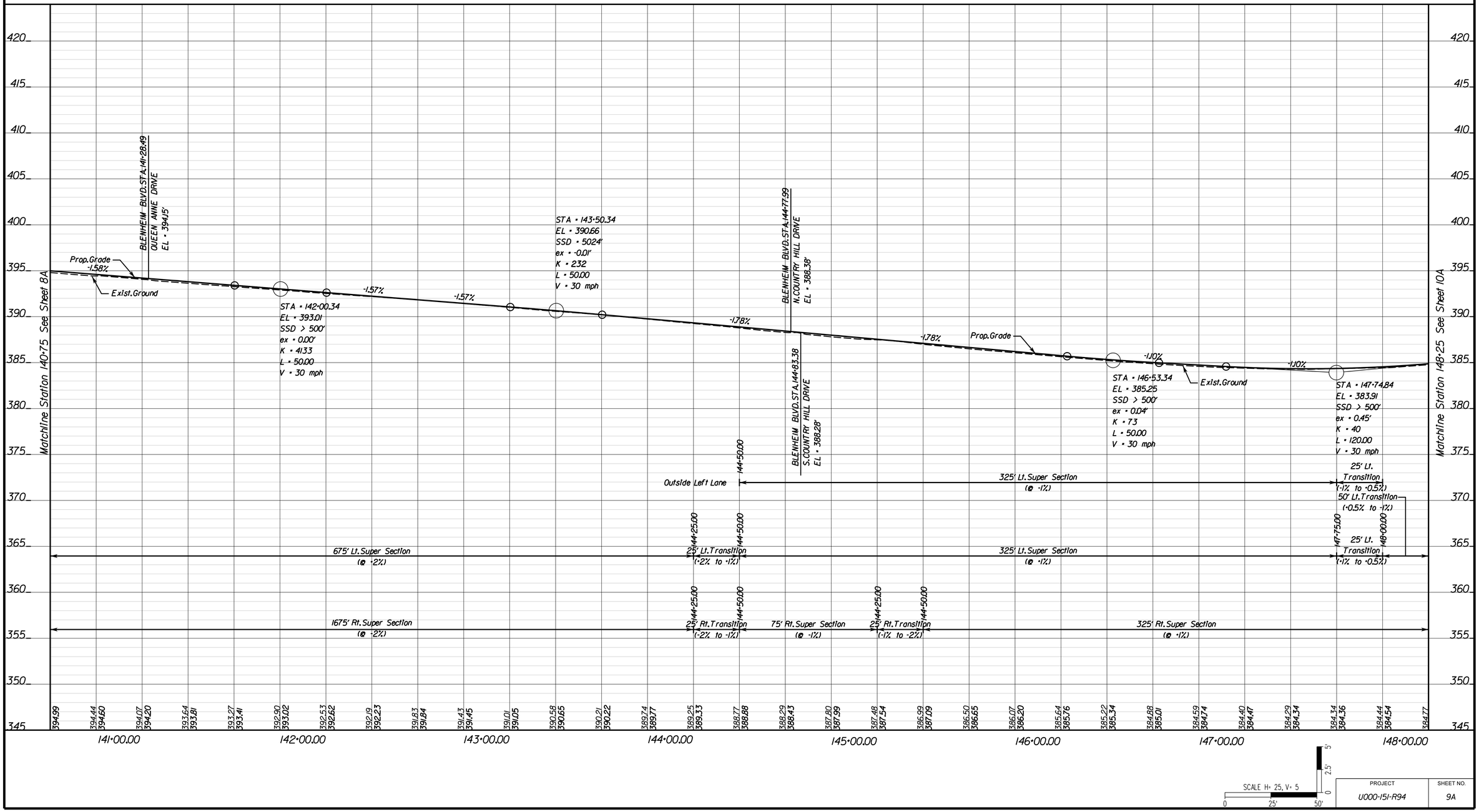
Rinker Design Associates, P.C.
Virginia Beach, Virginia
HYDRAULICS ENGINEER

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

Rinker Design Assoc. P.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

4/22/2025

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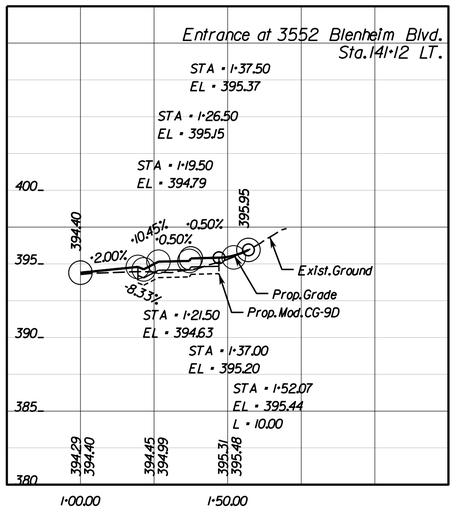
SIDE ROAD AND ENTRANCE PROFILES

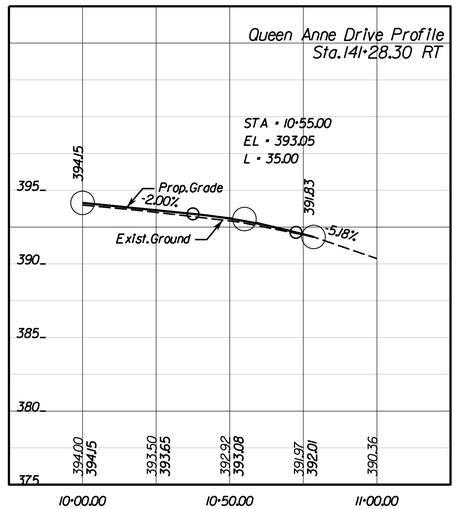
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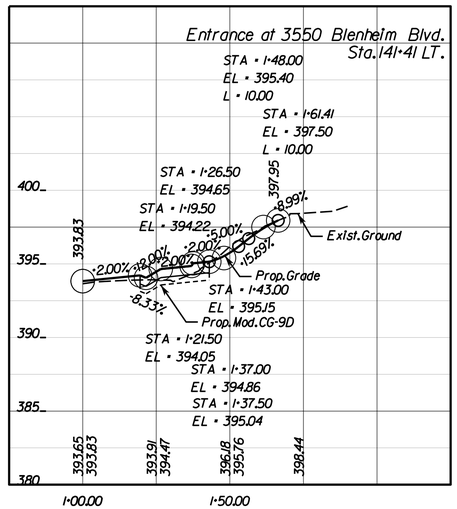
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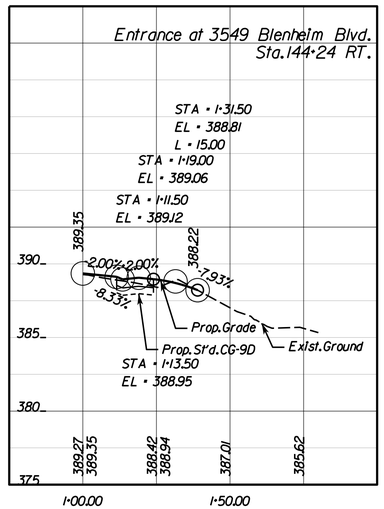
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	VA.	6628	U000-151-R94	9B

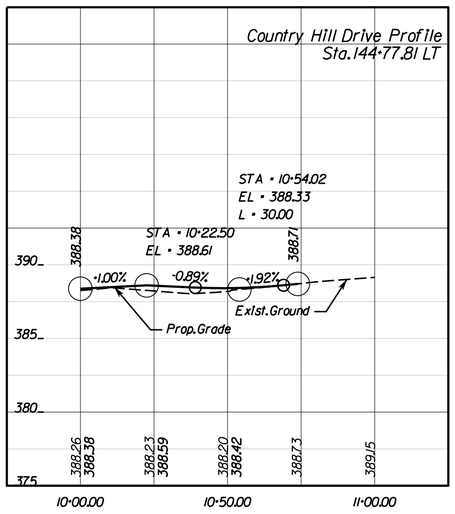
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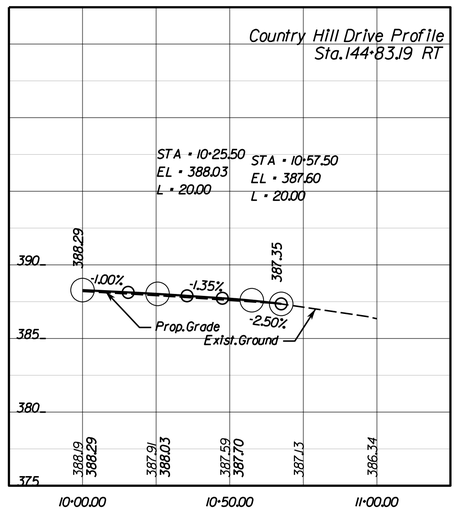












SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

PROJECT	SHEET NO.
U000-151-R94	9B

4/22/2025

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C14 Curve BLENHEIM14
PI • 148+15.31
DELTA • 3°08' 53.15" (LT)
D • 2°58' 35"
T • 52.90'
L • 105.77'
R • 1925.00'
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.

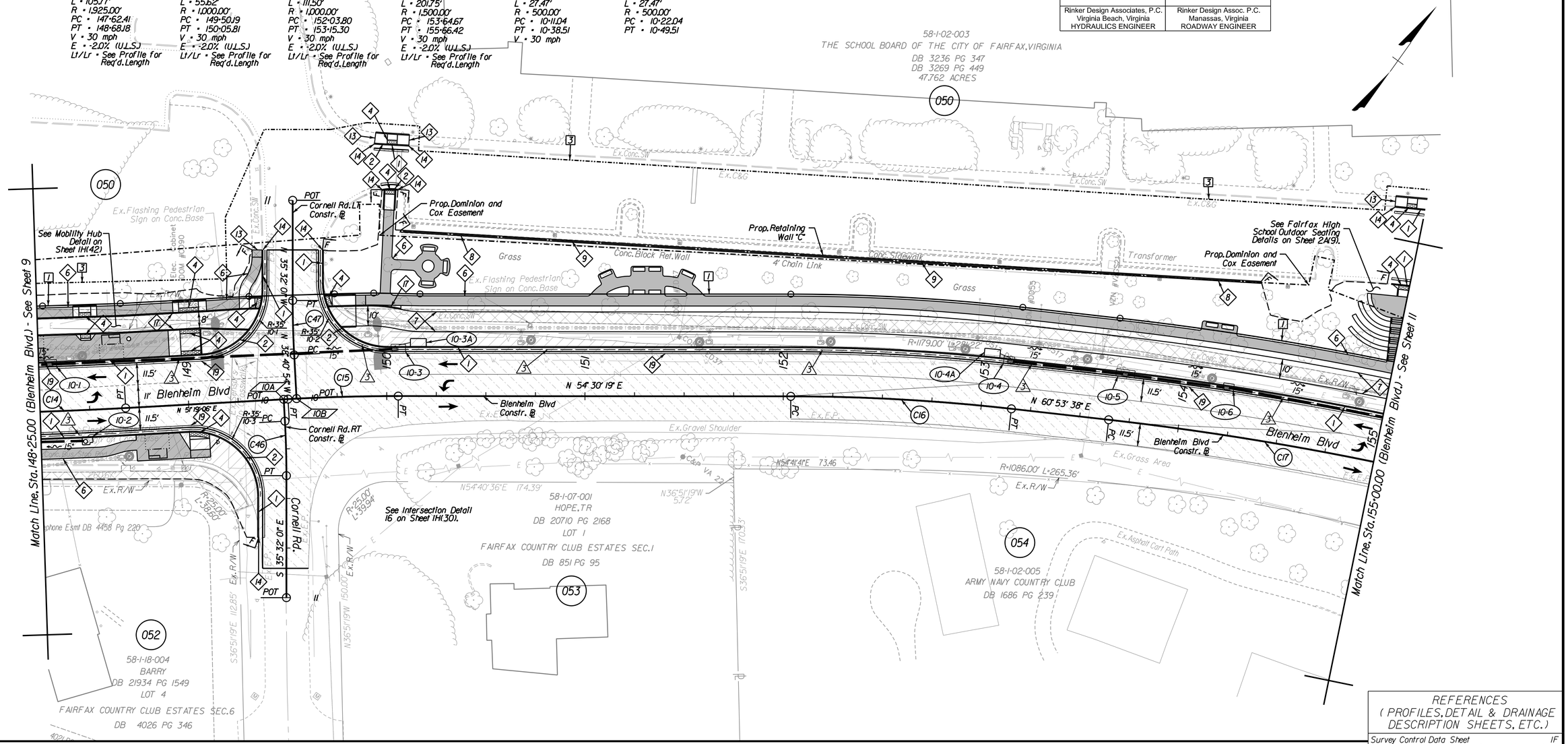
10B POC Blenheim Boulevard, Sta. 149+54.51
POT Entrance, Sta. 10+00.00
Delta • 90°00'00" Lt.

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

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

COMMONWEALTH OF VIRGINIA — NIKHIL V. DESHPANDE, Lic. No. 045430 — PROFESSIONAL ENGINEER
Rinker Design Associates, P.C., Virginia Beach, Virginia, HYDRAULICS ENGINEER

COMMONWEALTH OF VIRGINIA — MARK A. GUNN, Lic. No. 038323 — PROFESSIONAL ENGINEER
Rinker Design Assoc. P.C., Manassas, Virginia, ROADWAY ENGINEER



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BLENHEIM BOULEVARD PROFILE

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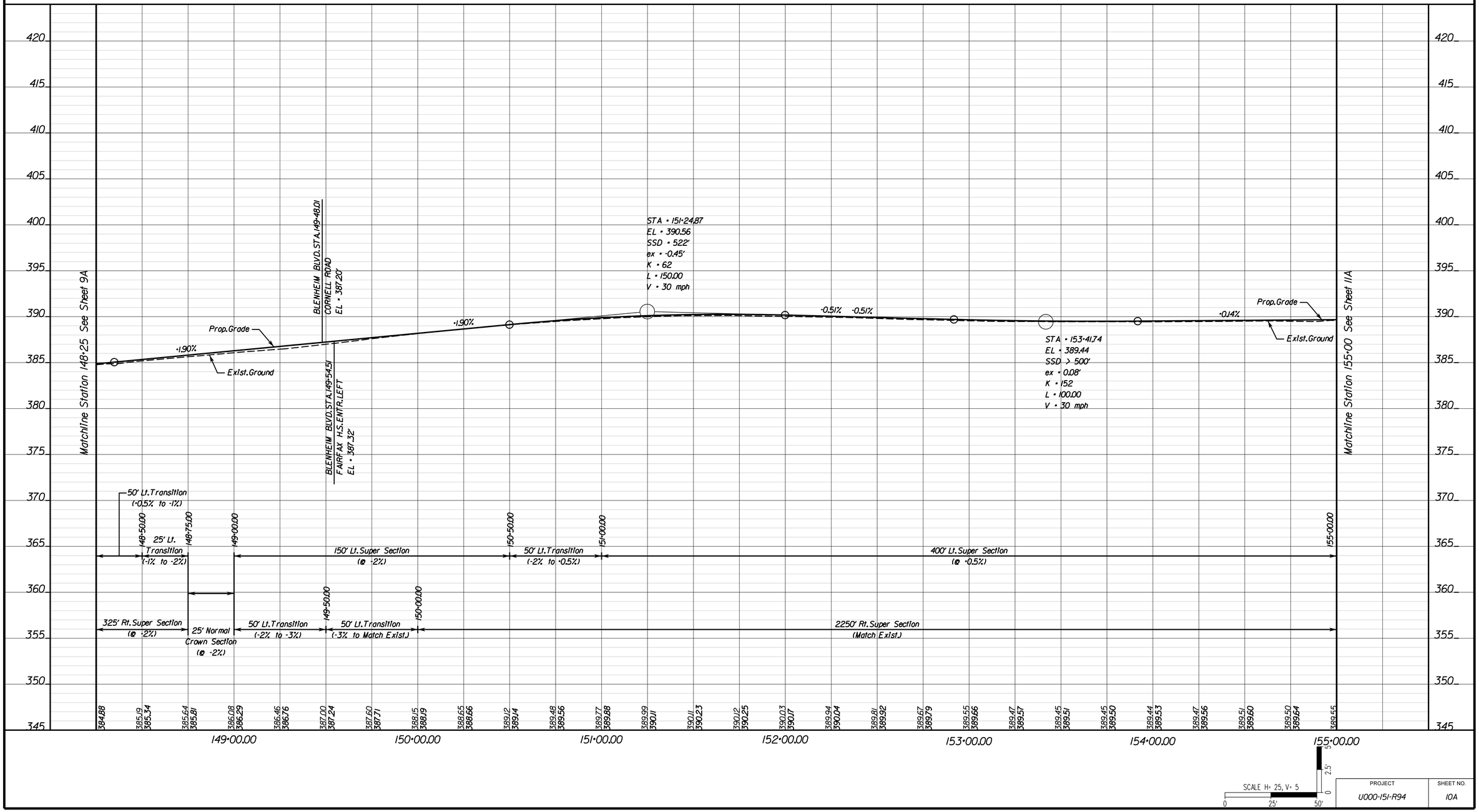
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4/22/2025

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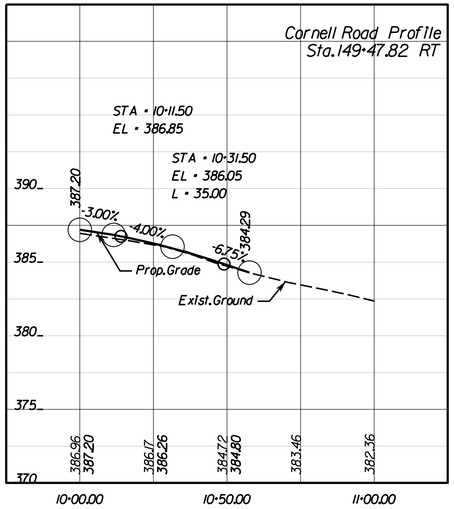
SIDE ROAD AND ENTRANCE PROFILES

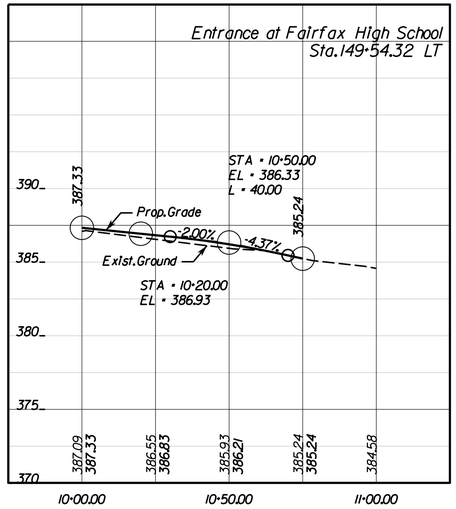
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SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

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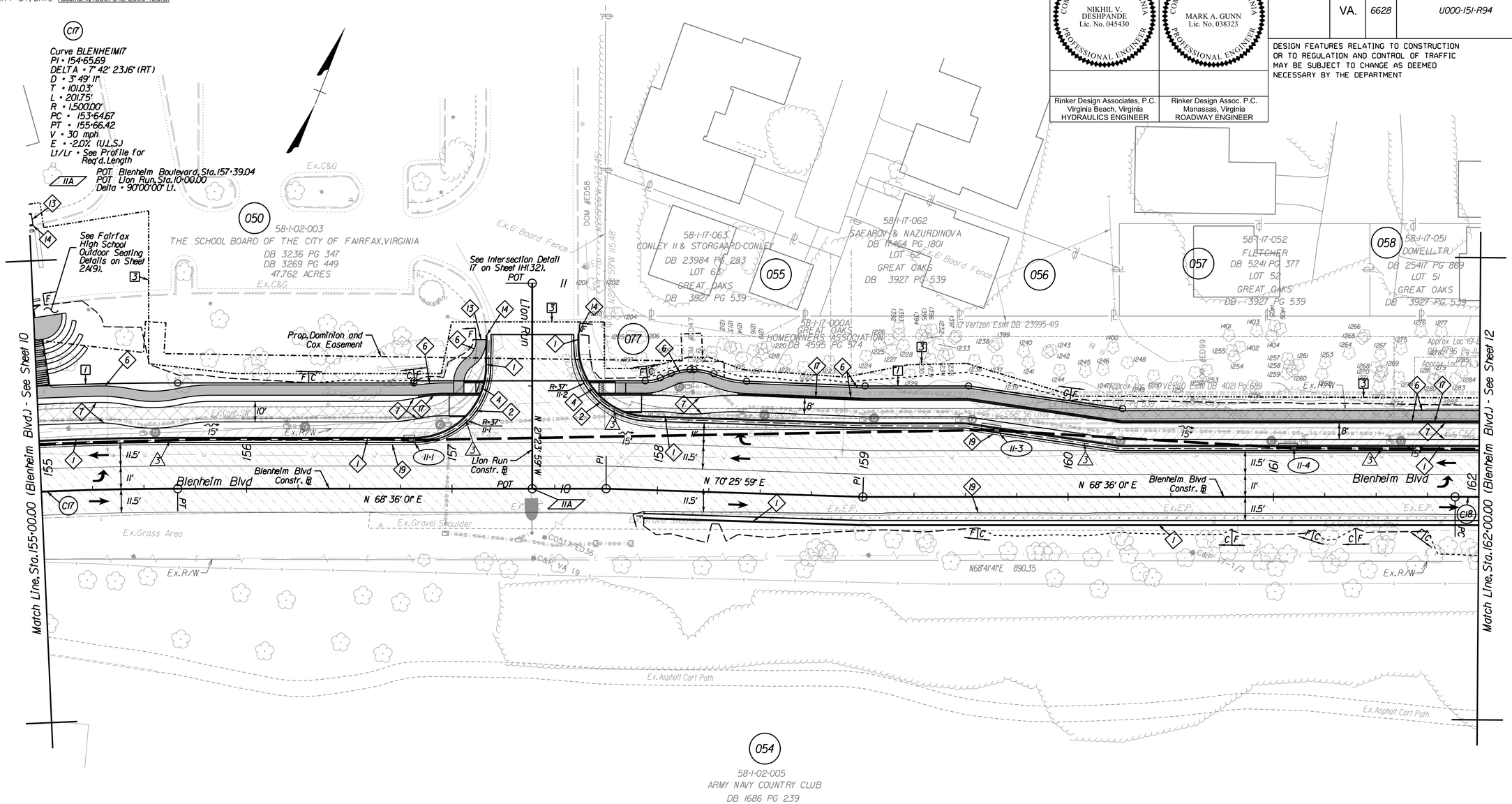
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	11

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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. CG-3 Req'd. See Sheet 1G(2) for Details
17 — Denotes Mod. CG-2 Req'd. See Sheet 1H(46) for Details
18 — Denotes Mod. CG-6 Req'd. See Sheet 2A(6) for Details
19 — Denotes Full Depth Sawcut
20 — Denotes Prop. Brick Walkway
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
1 — Prop. Right of Way
2 — Prop. Permanent Drainage Ease. (Dot-Dashed Lines)
3 — Prop. Temporary Construction Ease. (Dot-Dot-Dashed Lines)
4 — Prop. Permanent Street Lighting Ease. (Dot-Dashed Lines)
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(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'

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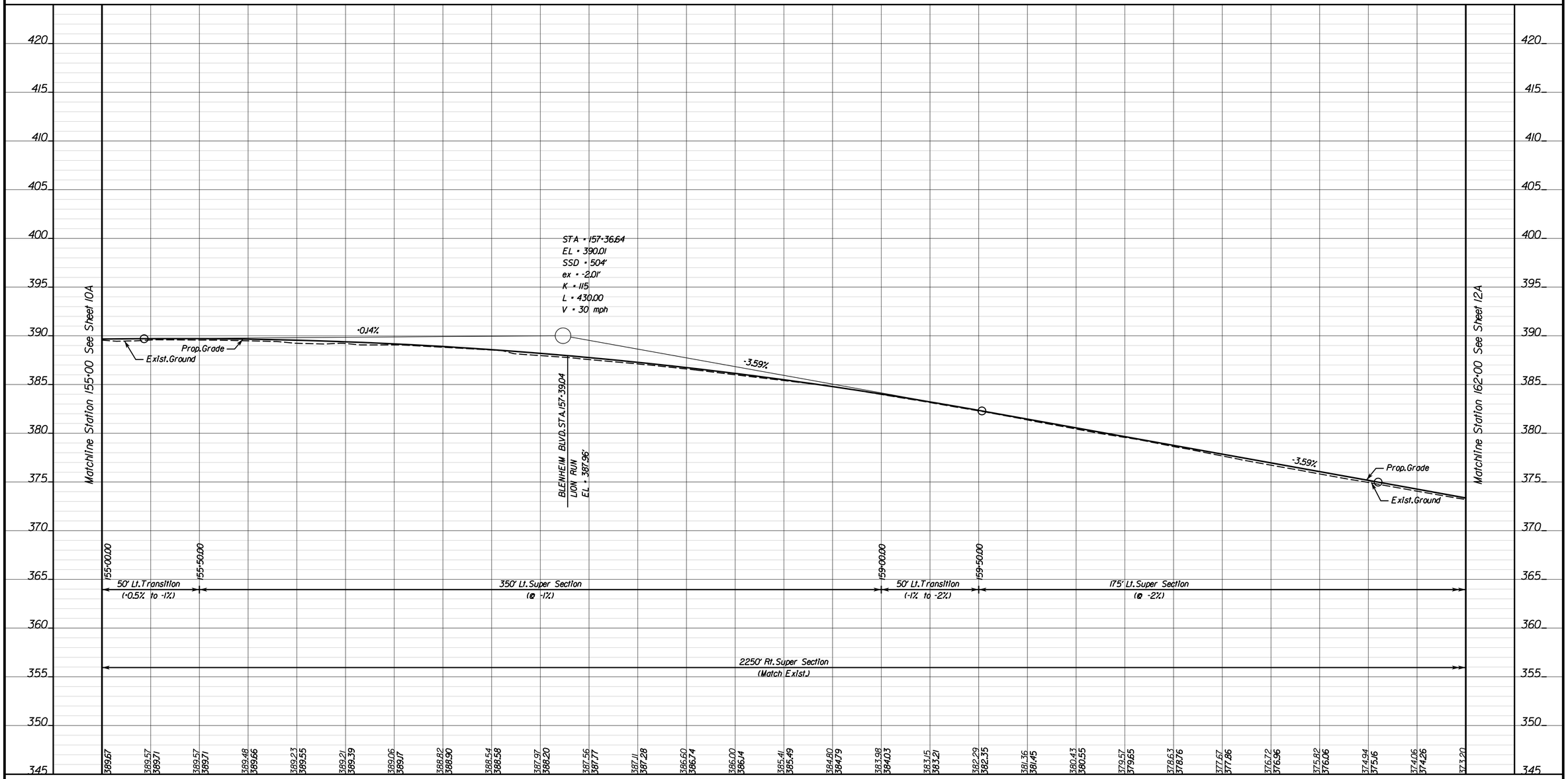
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	VA.	6628	U000-151-R94	IIA

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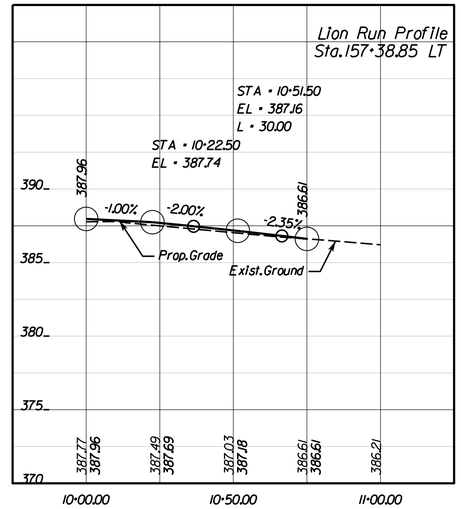
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SCALE H= 25, V= 5
0 25' 50'
0 2.5' 5'

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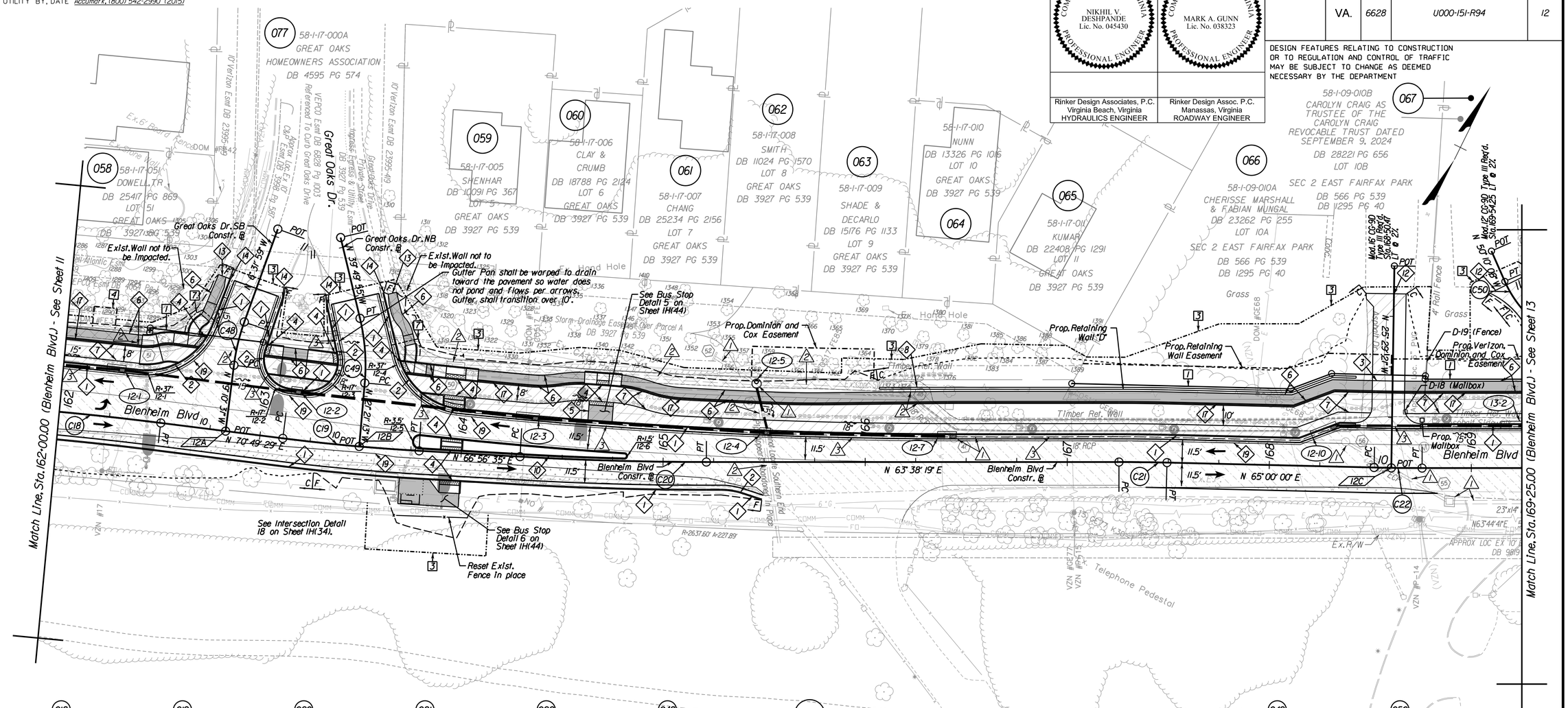
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	12

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_SB1
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

C49 Curve GREATOAKS_NB1
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_16944LT2
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

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.

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. CG-3 Req'd. See Sheet 1G(2) for Details
17 → Denotes Mod. CG-2 Req'd. See Sheet 1H(46) for Details
18 → Denotes Mod. CG-6 Req'd. See Sheet 2A(6) for Details
19 → Denotes Full Depth Sawcut
20 → Denotes Prop. Brick Walkway
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)
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(2)
Intersection Detail Plan	1H(34) - 1H(35)
Bus Stop Detail Plan	1H(44)
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(12)
Retaining Wall Plan & Profile	17(6)
Roadway Lighting Plan	18(12)
Existing Tree Plan	20(9)-20(10)

SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	12

FINAL PLANS

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

4/24/2025

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)

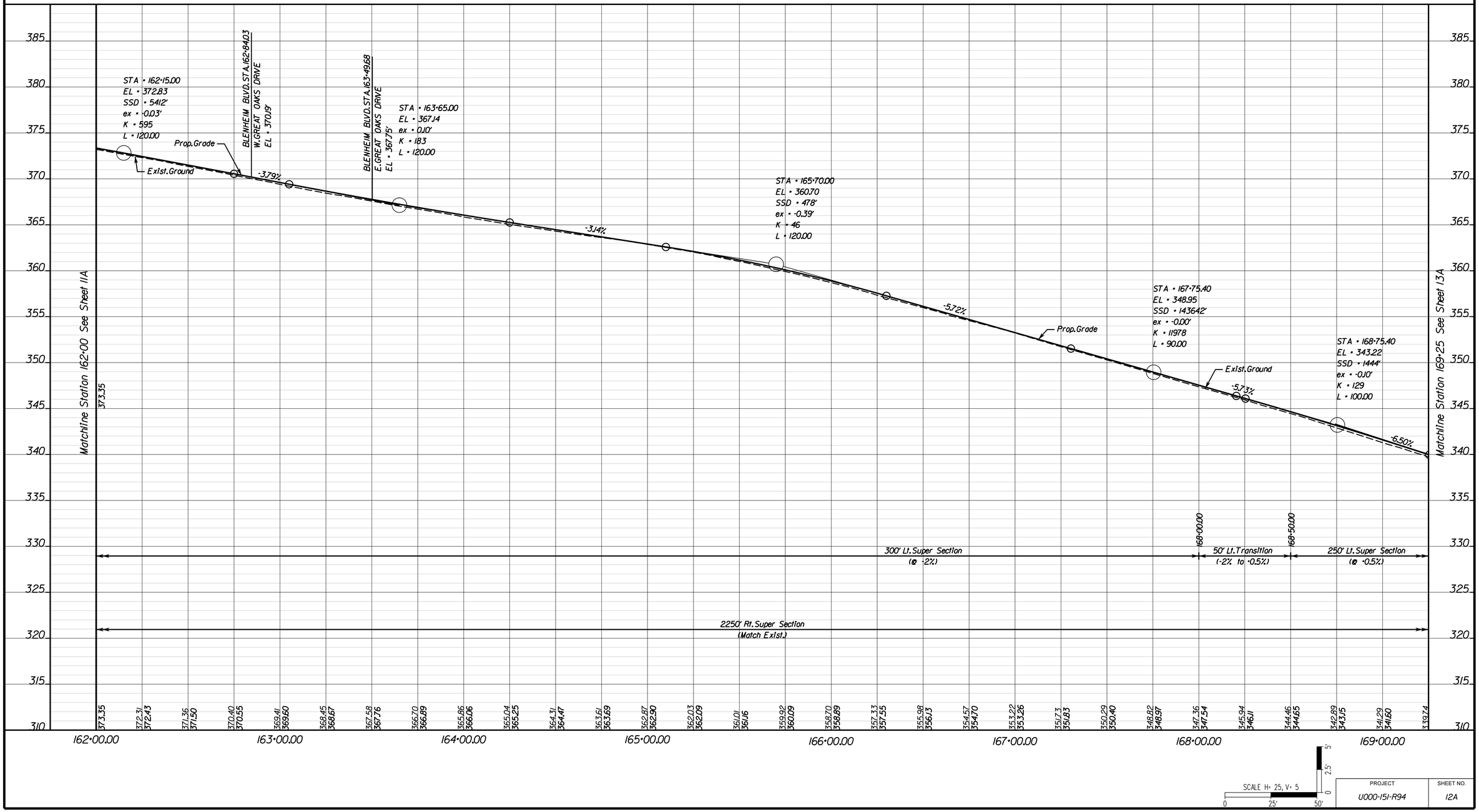
BLENHEIM BOULEVARD PROFILE

NIKHIL V. DESHPANDE Lic. No. 045430 — COMMONWEALTH OF VIRGINIA — PROFESSIONAL ENGINEER
Rinker Design Associates, P.C. Virginia Beach, Virginia HYDRAULICS ENGINEER

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

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4/22/2025

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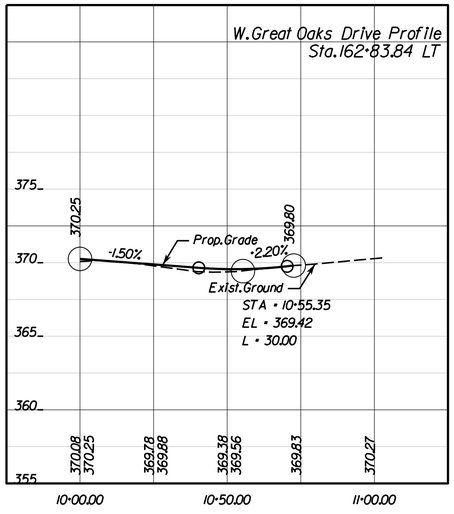
SIDE ROAD AND ENTRANCE PROFILES

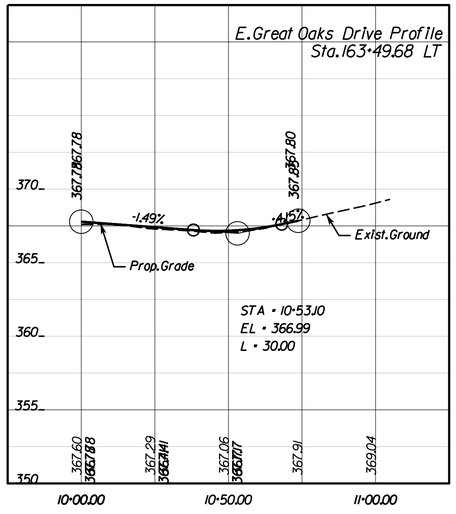
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

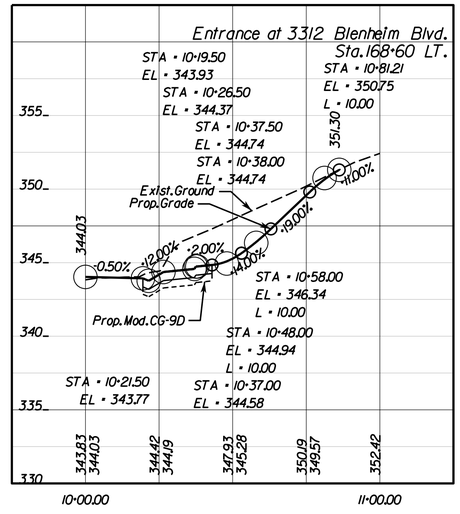
Rinker Design Assoc. P.C.
Manassas, Virginia
ROADWAY ENGINEER

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

4/22/2025

FINAL PLANS

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

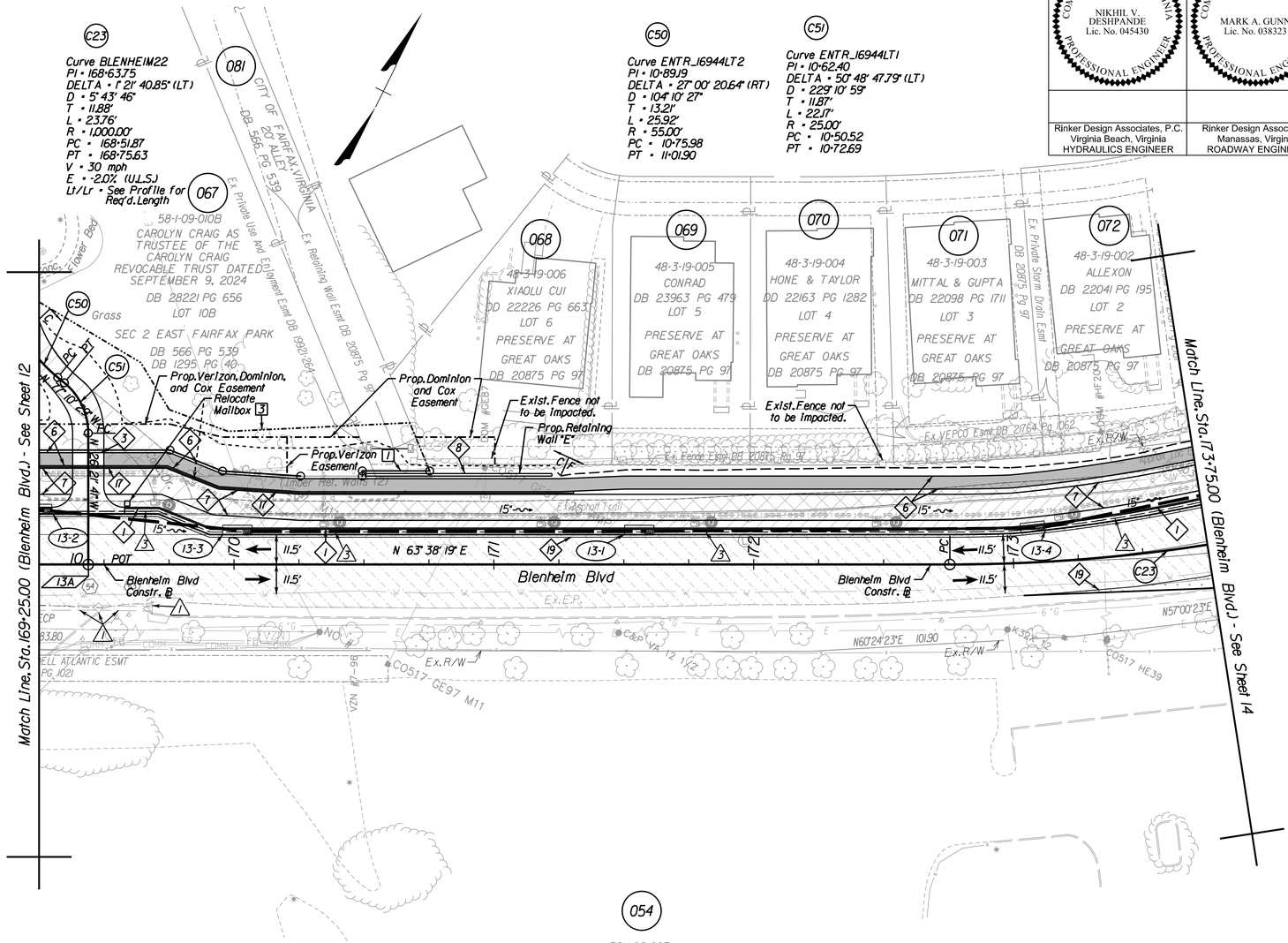
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

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MARK A. GUNN Lic. No. 038323 PROFESSIONAL ENGINEER
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Rinker Design Assoc. P.C. Manassas, Virginia ROADWAY 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



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

Roadway Design Legend

Key Legend
1 — Denotes 5'r'd. CG-6 Req'd.
2 — Denotes 5'r'd. Radial CG-6 Req'd.
3 — Denotes 5'r'd. CG-9, Type D Req'd.
4 — Denotes 5'r'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 5'r'd. 6' FE-CL Req'd.
10 — Denotes 5'r'd. MS-1 w/CG-2 Type Curb Req'd.
11 — Denotes 5'r'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 5'r'd. HR-1 Ty. 2 Req'd.
16 — Denotes Mod. CG-3 Req'd. See Sheet 1G(2) for Details
17 — Denotes Mod. CG-2 Req'd. See Sheet 1H(46) for Details
18 — Denotes Mod. CG-6 Req'd. See Sheet 2A(6) for Details
19 — Denotes Full Depth Sawcut
20 — Denotes Prop. Brick Walkway
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 5'r'd. MS-2 Req'd.
26 — Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 — Denotes Directional DWS
28 — Denotes 5'r'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 — 5'r'd. UD-4 Req'd.
4 — 5'r'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-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(13)
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(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

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

4/24/2025

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)

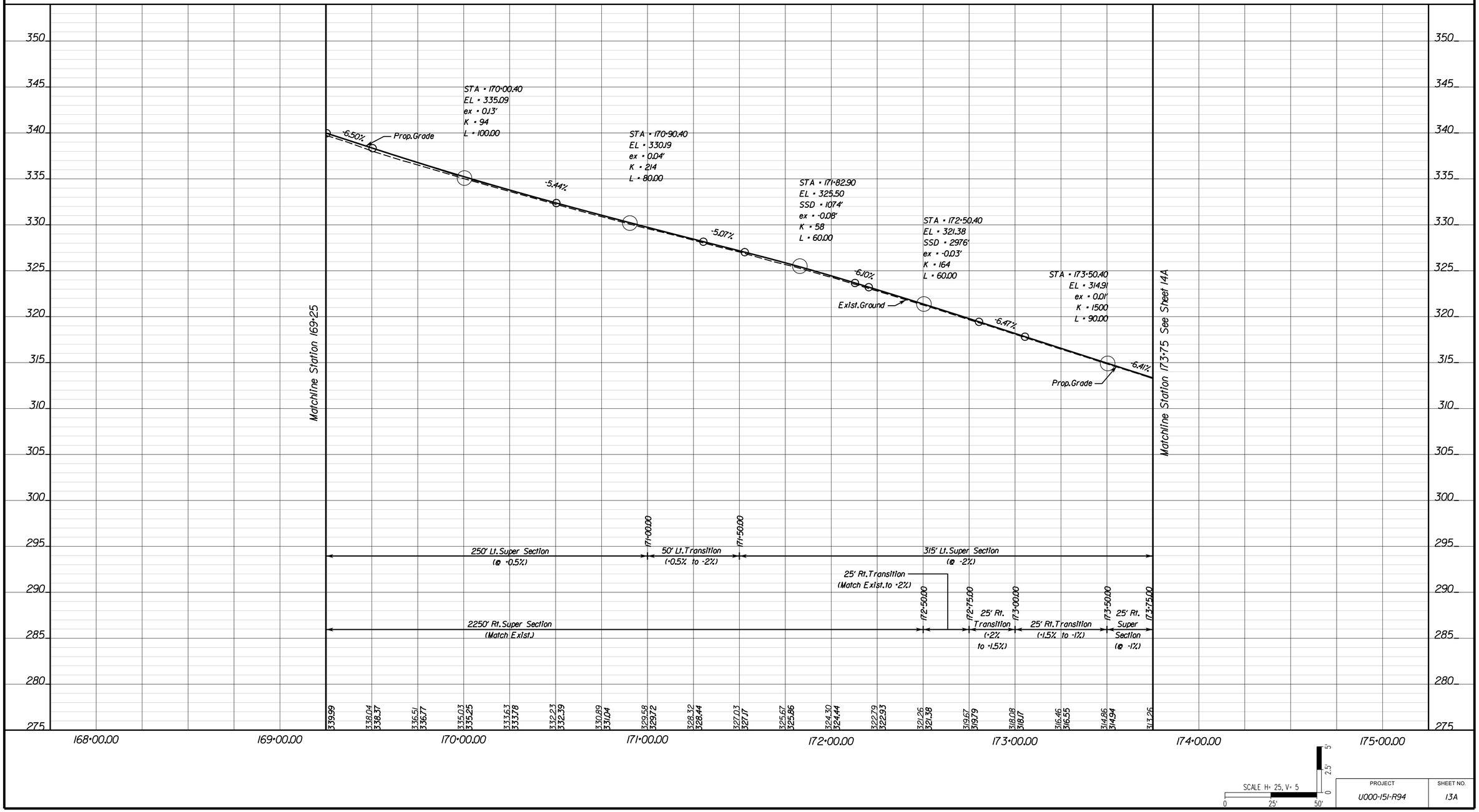
BLENHEIM BOULEVARD PROFILE

COMMONWEALTH OF VIRGINIA — NIKHIL V. DESHPANDE Lic. No. 045430 — PROFESSIONAL ENGINEER
Rinker Design Associates, P.C. Virginia Beach, Virginia HYDRAULICS ENGINEER

COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER
Rinker Design Assoc. P.C. Manassas, Virginia ROADWAY ENGINEER

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

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	13A

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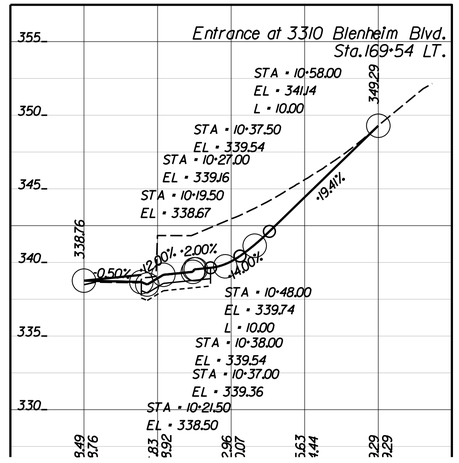
SIDE ROAD AND ENTRANCE PROFILES

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

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

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

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	13B

4/22/2025

FINAL PLANS

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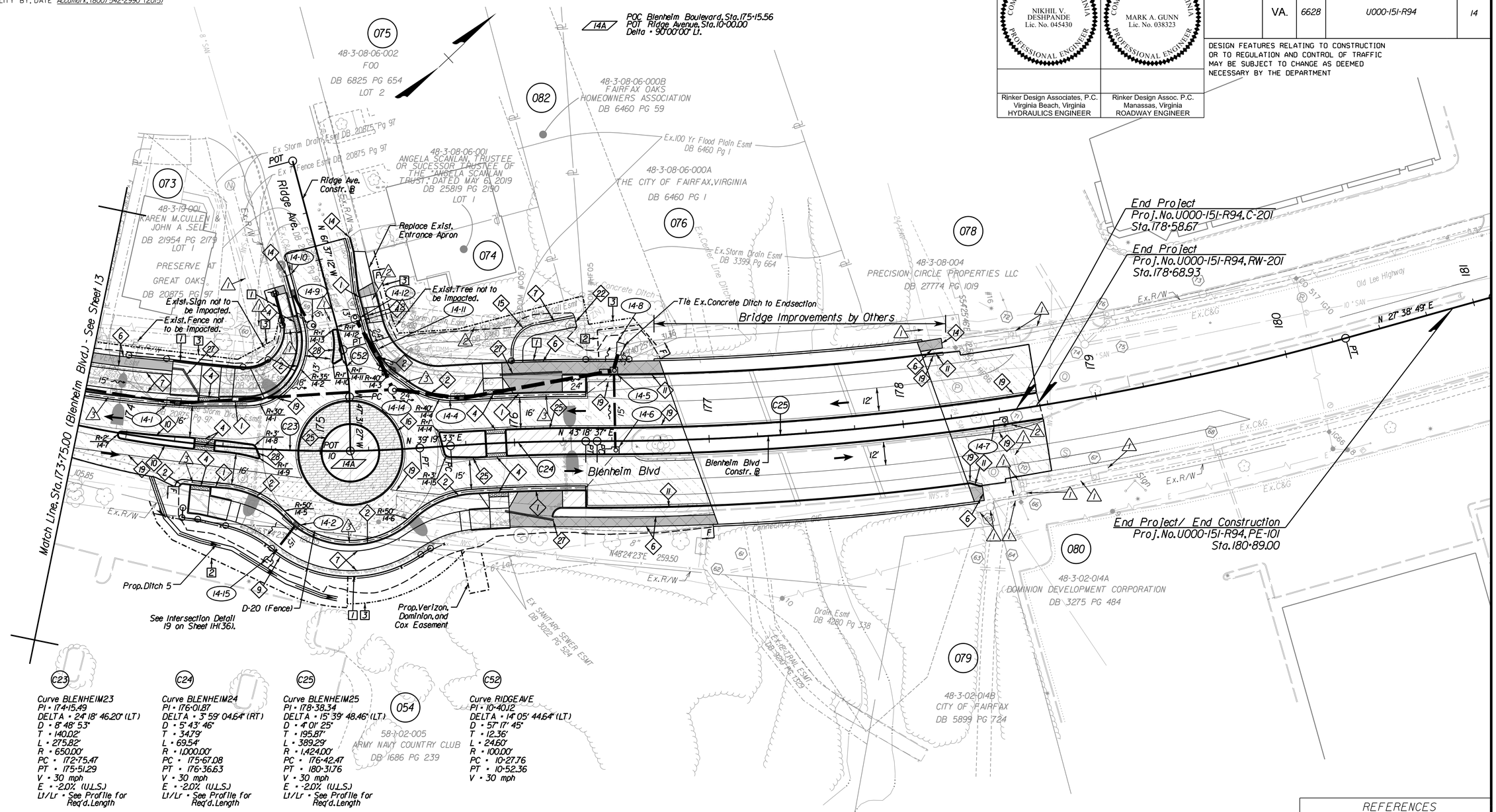
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COMMONWEALTH OF VIRGINIA
Rinker Design Assoc. P.C. Manassas, Virginia ROADWAY ENGINEER

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



Roadway Design Legend

Key Legend

1 — Denotes Sf'd.CG-6 Req'd.
2 — Denotes Sf'd.Radial CG-6 Req'd.
3 — Denotes Sf'd.CG-9,Type D Req'd.
4 — Denotes Sf'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 Sf'd.6' FE-CL Req'd.
10 — Denotes Sf'd.MS-1 w/CG-2 Type Curb Req'd.
11 — Denotes Sf'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 Sf'd.HR-1 ty.2 Req'd.
16 — Denotes Mod.CG-3 Req'd. See Sheet 1G(2) for Details
17 — Denotes Mod.CG-2 Req'd. See Sheet 1H(46) for Details
18 — Denotes Mod.CG-6 Req'd. See Sheet 2A(6) for Details
19 — Denotes Full Depth Sawcut
20 — Denotes Prop.Brick Walkway
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 Sf'd.MS-2 Req'd.
26 — Denotes 7' Privacy Fence Req'd. See Sheet 2A(4) for Details
27 — Denotes Directional DWS
28 — Denotes Sf'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 — Sf'd.UD-4 Req'd.
4 — Sf'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

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4/24/2025

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

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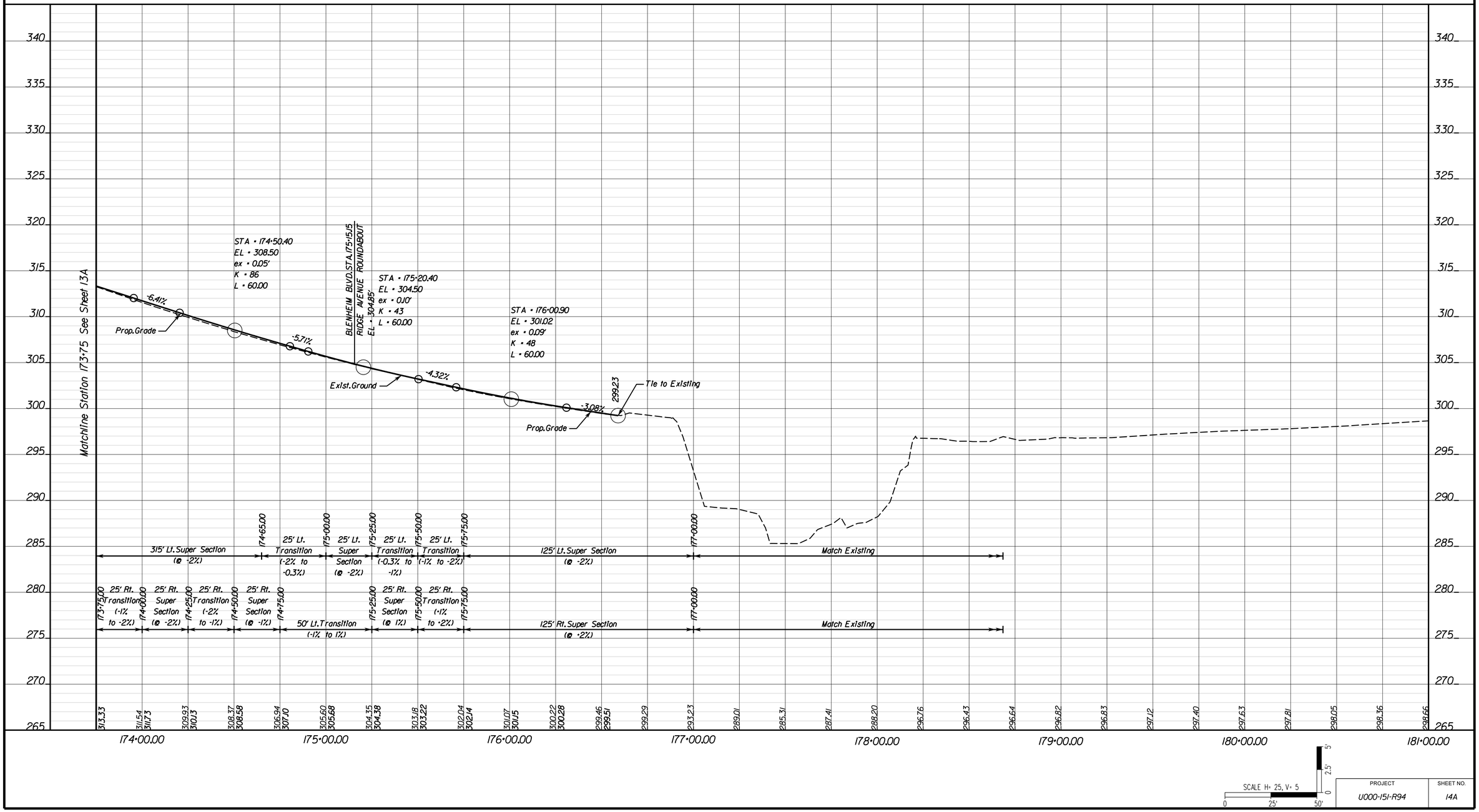
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Manassas, Virginia
ROADWAY ENGINEER

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

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4/22/2025

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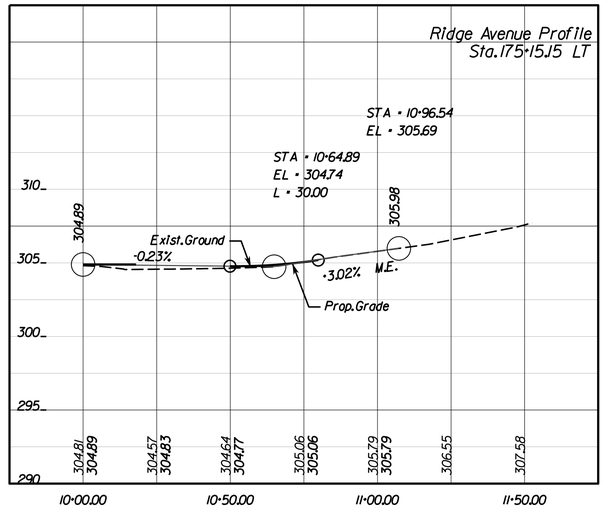
SIDE ROAD PROFILE

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
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Rinker Design Assoc. P.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

4/22/2025

FINAL PLANS

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

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

PAVEMENT MARKING AND SIGNING PLAN: SIGN SCHEDULE

TOOLE DESIGN
8484 Georgia Avenue, Suite 800
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	SIGN PANEL AREA (s.f.): 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	2	1.25	2.5	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	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	REMARKS
8	206 207 801 802		W11-2	36	36	4	9	36	RRFB, SOLAR	SEE DETAIL 4A, SHEET 15(16)
			W16-7P(L)	24	12	2	2	4		
			W16-7P(R)	24	12	2	2	4		
			W10-25	9	12	4	0.75	2.25		
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	1.5		

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	SHEET NO.
	U000-151-R94	15

FINAL PLANS

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

TOOLE DESIGN
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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)

PAVEMENT MARKING AND SIGNING PLAN: SIGN SCHEDULE

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(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	SIGN PANEL AREA (s.f.): 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	
18	1211	BIKE LANE ENDS AHEAD	R3-17	24	18	1	3	3	SQ. METAL	
			R3-17bP	24	8	1	1.33	1.33	SQ. METAL	
			R3-17aP	24	8	1	1.33	1.33	SQ. METAL	
19	701	SPEED LIMIT 30	R2-1	24	30	3	5	5	SQ. METAL	

NOTES:
1) ALL SIGNS SHALL BE ORIENTED AS SHOWN ON THE PLANS.
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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.

STANDARD SIGN LEGEND

PLAN ITEM	PLAN SYMBOL: PROPOSED	PLAN SYMBOL: 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 — REMOVE 95

Existing Sign to be Removed — REMOVE 95

Proposed Sign Panel — ORIGINAL 95

SIGN LABELS

Proposed Sign Assemblies
2808 / 3
denotes Sign Assembly No.
denotes Text No.

Relocated Sign Assemblies
2808 / 3
denotes Sign Assembly No.
denotes Text No.

Sign Relocation or Payable Sign Disposal/Salvage

GM / A
denotes Existing Sign Structure and/or Sign Panel Type
STRUCTURE & SIGN PANEL
GM - Ground Mounted
OM - Overhead Mounted
CM - Cantilever Mounted
SIGN PANEL
SP-GM - Ground Mounted Sign Panel
SP-OH - Overhead Mounted Sign Panel
STRUCTURE ONLY
ST-GM - Ground Mounted
denotes Action and Measurement & Payment Item
A - Remove & Dispose
B - Remove & Salvage
C - Relocate
D - Overlay Sign Panel

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

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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)

PAVEMENT MARKING AND SIGNING PLAN: PAVEMENT MARKING LEGEND

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(2)

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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8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

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)

FINAL PLANS

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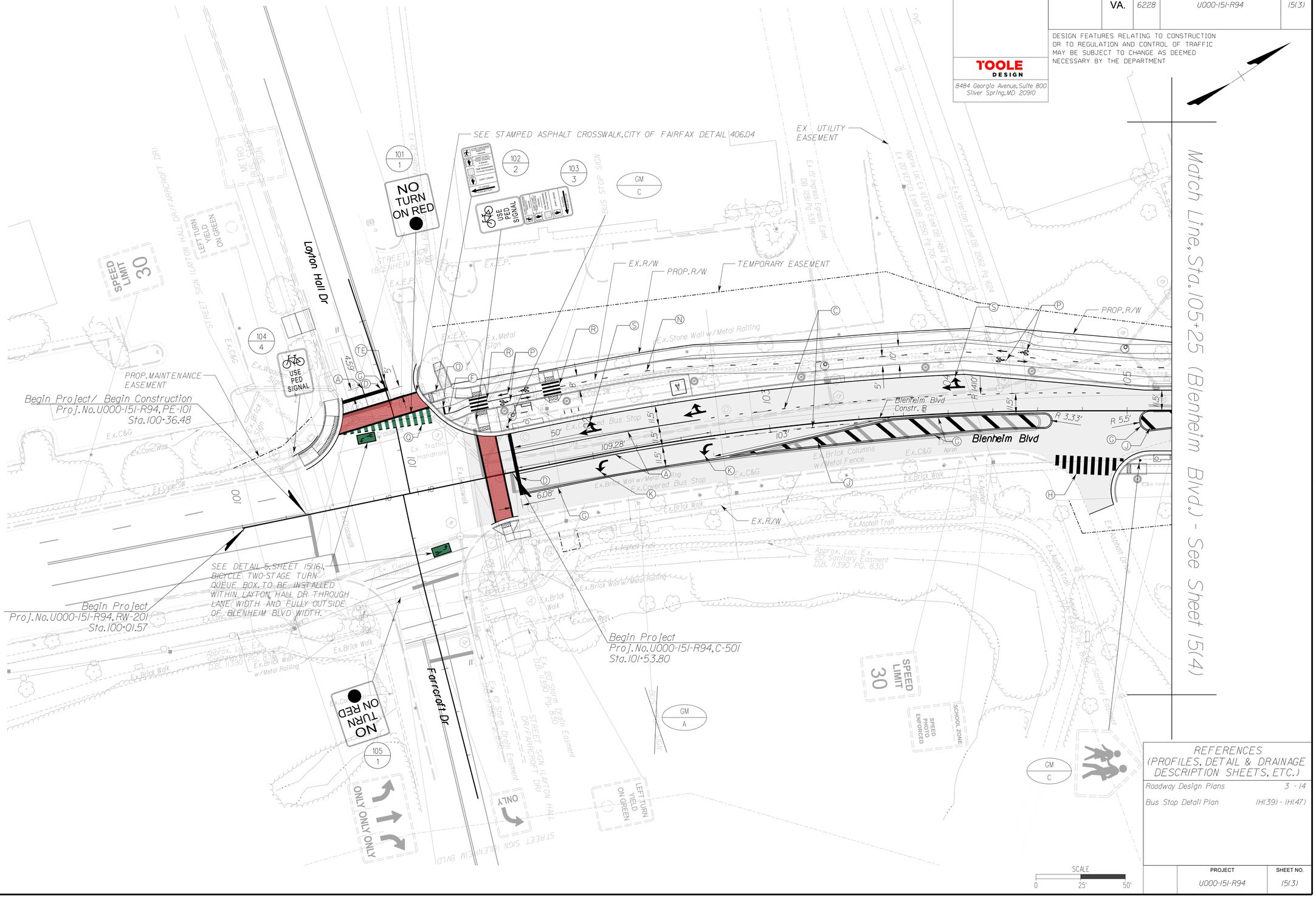
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

PAVEMENT MARKING AND SIGNING PLAN

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

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



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

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

SCALE 0 25' 50'

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

FINAL PLANS

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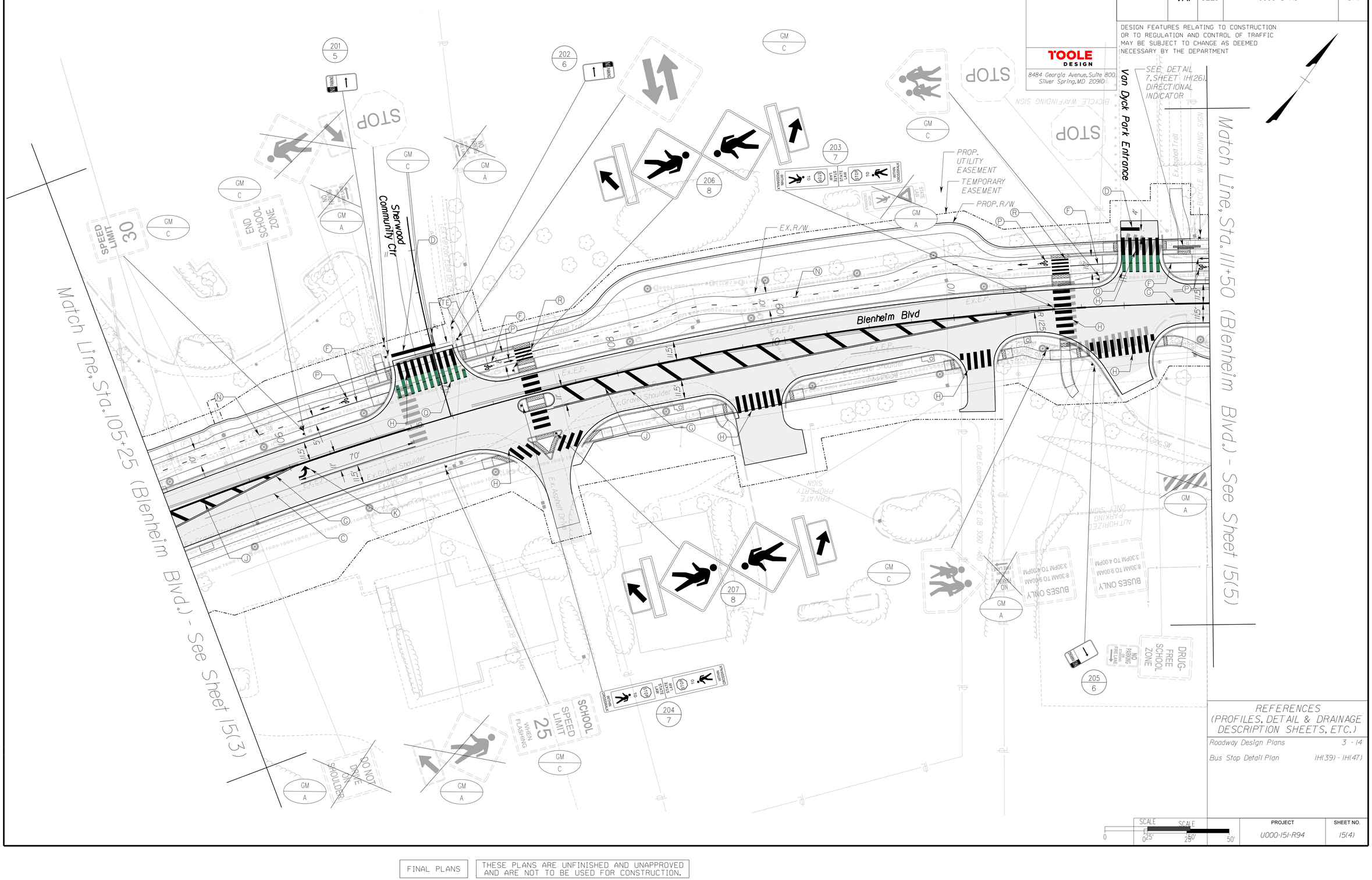
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PAVEMENT MARKING AND SIGNING PLAN

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

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Silver Spring, MD 20910



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

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

SCALE 0 25' 50' SCALE 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	15(4)

FINAL PLANS

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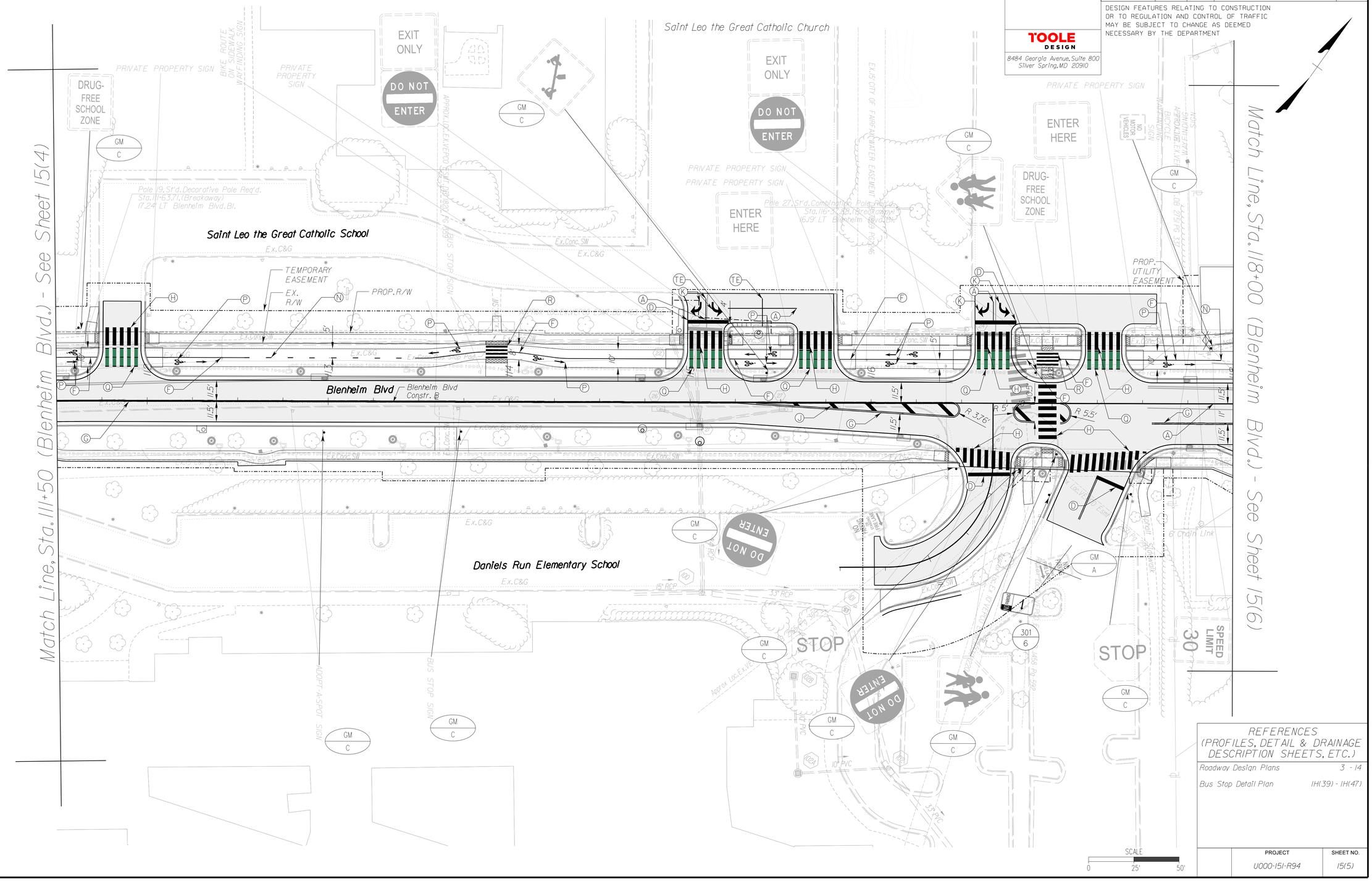
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PAVEMENT MARKING AND SIGNING PLAN

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

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TOOLE DESIGN
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Silver Spring, MD 20910


Match Line, Sta. 111+50 (Blenheim Blvd.) - See Sheet 15(4)
Match Line, Sta. 118+00 (Blenheim Blvd.) - See Sheet 15(6)
Saint Leo the Great Catholic Church
Saint Leo the Great Catholic School
Daniels Run Elementary School
Blenheim Blvd
Blenheim Blvd Constr. ℄
EXIT ONLY
DO NOT ENTER
ENTER HERE
DRUG-FREE SCHOOL ZONE
PRIVATE PROPERTY SIGN
BIKE ROUTE ON SIDEWALK WAYFINDING SIGN
Pole 19, St'd. Decorative Pole Req'd. Sta. 111+63.71 (Breakaway) 17.24' LT Blenheim Blvd. Bl.
Pole 27, St'd. Combination Post Req'd. Sta. 116+35.56 (Breakaway) 16.9' LT Blenheim Blvd. Bl.
TEMPORARY EASEMENT
EX. R/W
PROP. R/W
PROP. UTILITY EASEMENT
EX.15' CITY OF FAIRFAX WATER EASEMENT
Ex.C&G
Ex.Conc.SW
Ex.Conc. Bus Stop Pad
Ex.Conc. Trail
Ex.Conc. Ramp
Ex.Conc. Island
Ex.Conc. Curb
Ex.Conc. Gutter
Ex.Conc. Flume
Ex.Conc. Median
Ex.Conc. Pan
Ex.Conc. Valley Gutter
Ex.Conc. Curb & Gutter
Ex.Conc. Curb Ramp
Ex.Conc. Sidewalk
Ex.Conc. Entrance
Ex.Conc. Apron
Ex.Conc. Driveway
Ex.Conc. Bus Stop Pad
Ex.Conc. Bus Shelter
Ex.Conc. Bus Stop Sign
Ex.Conc. Bus Stop Pole
Ex.Conc. Bus Stop Bench
Ex.Conc. Bus Stop Trash Can
Ex.Conc. Bus Stop Bike Rack
Ex.Conc. Bus Stop

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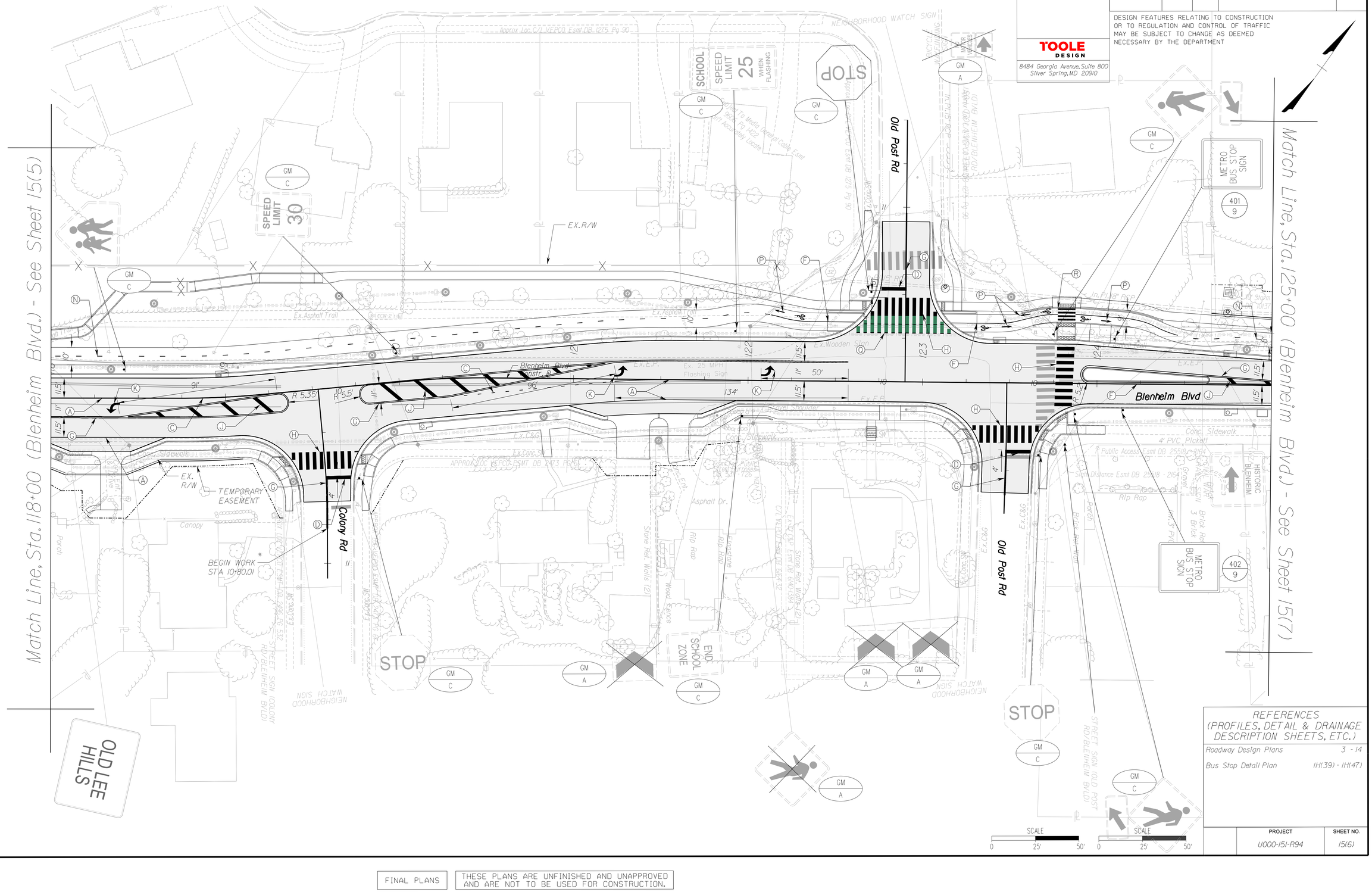
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PAVEMENT MARKING AND SIGNING PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(6)

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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Silver Spring, MD 20910


Match Line, Sta. 118+00 (Blenheim Blvd.) - See Sheet 15(5)
Match Line, Sta. 125+00 (Blenheim Blvd.) - See Sheet 15(7)
Old Post Rd
Colony Rd
Blenheim Blvd
SCHOOL SPEED LIMIT 25 WHEN FLASHING
SPEED LIMIT 30
STOP
END SCHOOL ZONE
METRO BUS STOP SIGN
HISTORIC BLENHEIM
NEIGHBORHOOD WATCH SIGN
STREET SIGN (COLONY RD/BLENHEIM BLVD)
STREET SIGN (OLD POST RD/BLENHEIM BLVD)
OLD LEE HILLS
BEGIN WORK STA 10+80.01
EX. R/W
TEMPORARY EASEMENT
Ex. 25 MPH Flashing Sign
Ex. Asphalt Trail
Ex. Wooden Stair
Ex. Concrete Stair
Ex. Gravel Shoulder
Ex. Asphalt Dr.
Ex. Stone Ret. Walls (2)
Ex. Wood Fence
Ex. Fieldstone
Ex. Rip Rap
Ex. Brick Ret. Wall
Ex. Concrete Sidewalk
Ex. Brick Sidewalk
Ex. Gravel Sidewalk
Ex. Porch
Ex. Canopy
Ex. Steps
Ex. Curb Inlet
Ex. Drop Inlet
Ex. Utility Pole
Ex. Guy Wire
Ex. Fire Hydrant
Ex. Gas Valve
Ex. Gas Meter
Ex. Light Pole
Ex. Sign
Ex. Mailbox
Ex. Tree
Ex. Shrub
Ex. Bollard
Ex. Chain Link Fence
Ex. Brick Fence
Ex. Wood Fence
Ex. Stockade Fence
Ex. Picket Fence
Ex. Stone Fence
Ex. Retaining Wall
Ex. Concrete Curb & Gutter
Ex. Concrete Curb
Ex. Concrete Gutter
Ex. Asphalt Pavement
Ex. Concrete Pavement
Ex. Brick Pavement
Ex. Gravel Pavement
Ex. Concrete Median
Ex. Concrete Island
Ex. Concrete Pad
Ex. Concrete Apron
Ex. Concrete Ramp
Ex. Concrete Steps
Ex. Concrete Wall
Ex. Concrete Footing
Ex. Concrete Foundation
Ex. Concrete Slab
Ex. Concrete Pier
Ex. Concrete Abutment
Ex. Concrete Wingwall
Ex. Concrete Headwall
Ex. Concrete Endwall
Ex. Concrete Flume
Ex. Concrete Spillway
Ex. Concrete Weir
Ex. Concrete Culvert
Ex. Concrete Pipe
Ex. Concrete Box
Ex. Concrete Arch
Ex. Concrete Bridge
Ex. Concrete Tunnel
Ex. Concrete Dam
Ex. Concrete Reservoir
Ex. Concrete Tank
Ex. Concrete Silo
Ex. Concrete Tower
Ex. Concrete Chimney
Ex. Concrete Stack
Ex. Concrete Flue
Ex. Concrete Duct
Ex. Concrete Conduit
Ex. Concrete Manhole
Ex. Concrete Handhole
Ex. Concrete Vault
Ex. Concrete Pit
Ex. Concrete Trench
Ex. Concrete Ditch
Ex. Concrete Swale
Ex. Concrete Berm
Ex. Concrete Curb Ramp
Ex. Concrete Gutter Pan
Ex. Concrete Valley Gutter
Ex. Concrete Cross Gutter
Ex. Concrete Drainage Channel
Ex. Concrete Drainage Ditch
Ex. Concrete Drainage Swale
Ex. Concrete Drainage Berm
Ex. Concrete Drainage Curb
Ex. Concrete Drainage Gutter
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Ex. Concrete Drainage Trench
Ex. Concrete Drainage Ditch
Ex. Concrete Drainage Swale
Ex. Concrete Drainage Berm
Ex. Concrete Drainage Curb Ramp
Ex. Concrete Drainage Gutter Pan
Ex. Concrete Drainage Valley Gutter
Ex. Concrete Drainage

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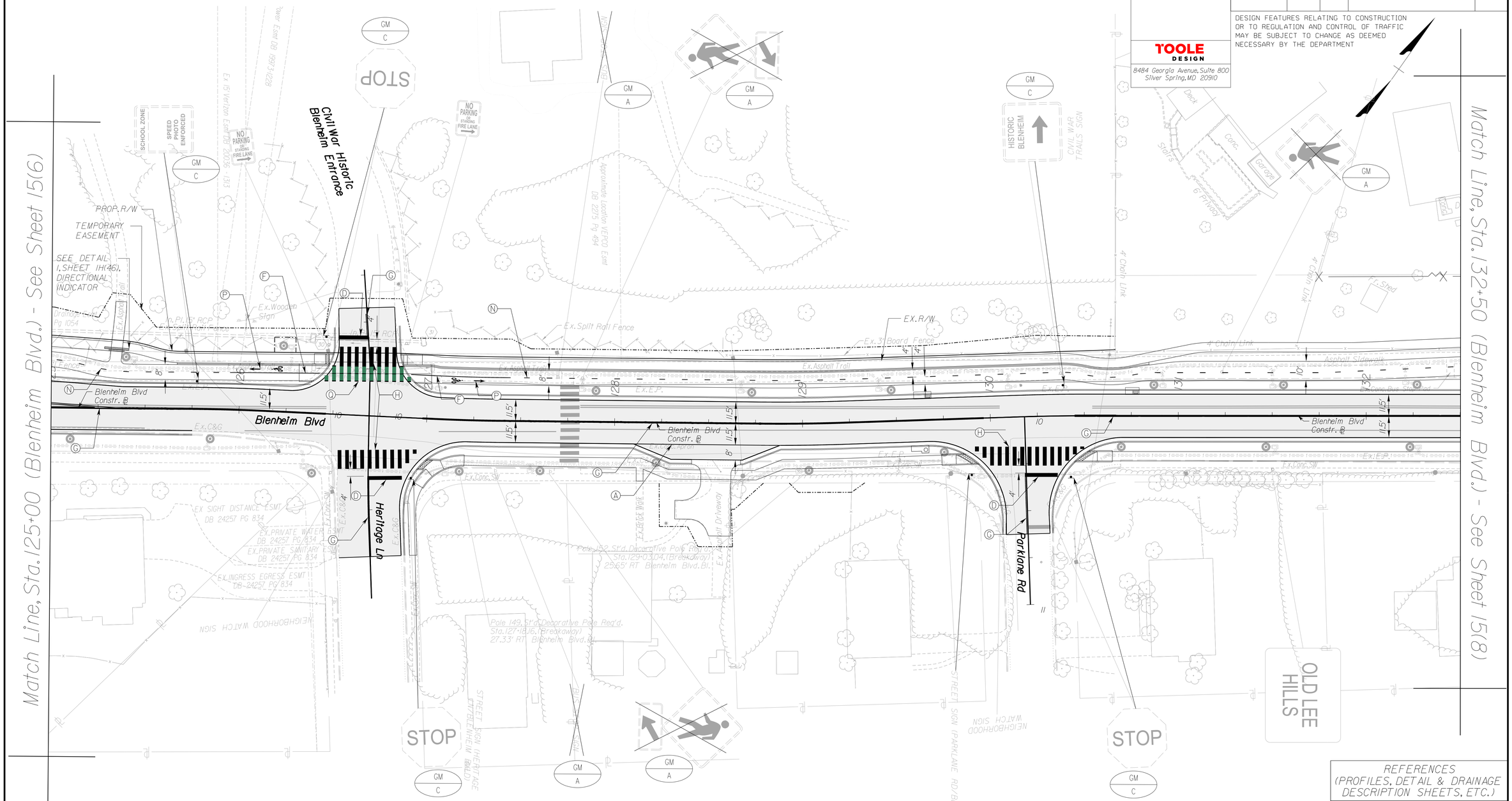
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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PAVEMENT MARKING AND SIGNING PLAN

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

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



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

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

SCALE 0 25' 50'

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

FINAL PLANS

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PAVEMENT MARKING AND SIGNING PLAN

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

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8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

Match Line, Sta. 132+50 (Blenheim Blvd.) - See Sheet 15(7)

Match Line, Sta. 140+00 (Blenheim Blvd.) - See Sheet 15(9)

Blenheim Blvd

Blenheim Blvd Constr. B

Brookwood Dr

Embassy Ln

METRO BUS STOP SIGN 601 10

METRO BUS STOP SIGN 602 10

STOP

SPEED LIMIT 30

RESIDENTIAL PARKING PERMIT SIGN

NEIGHBORHOOD WATCH SIGN

STREET SIGN (BROOKWOOD DR/BLENHEIM BLVD)

STREET SIGN (EMBASSY LN/BLENHEIM BLVD)

BUS STOP SIGN

PRIVATE COUNTRY CLUB HILLS

BICYCLE

NO PARKING ANYTIME

Approx Loc. VEPCO Esmt DB 1275 Pg 90

Ex. 10' Storm Drainage Esmt DB 1261 Pg 238

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

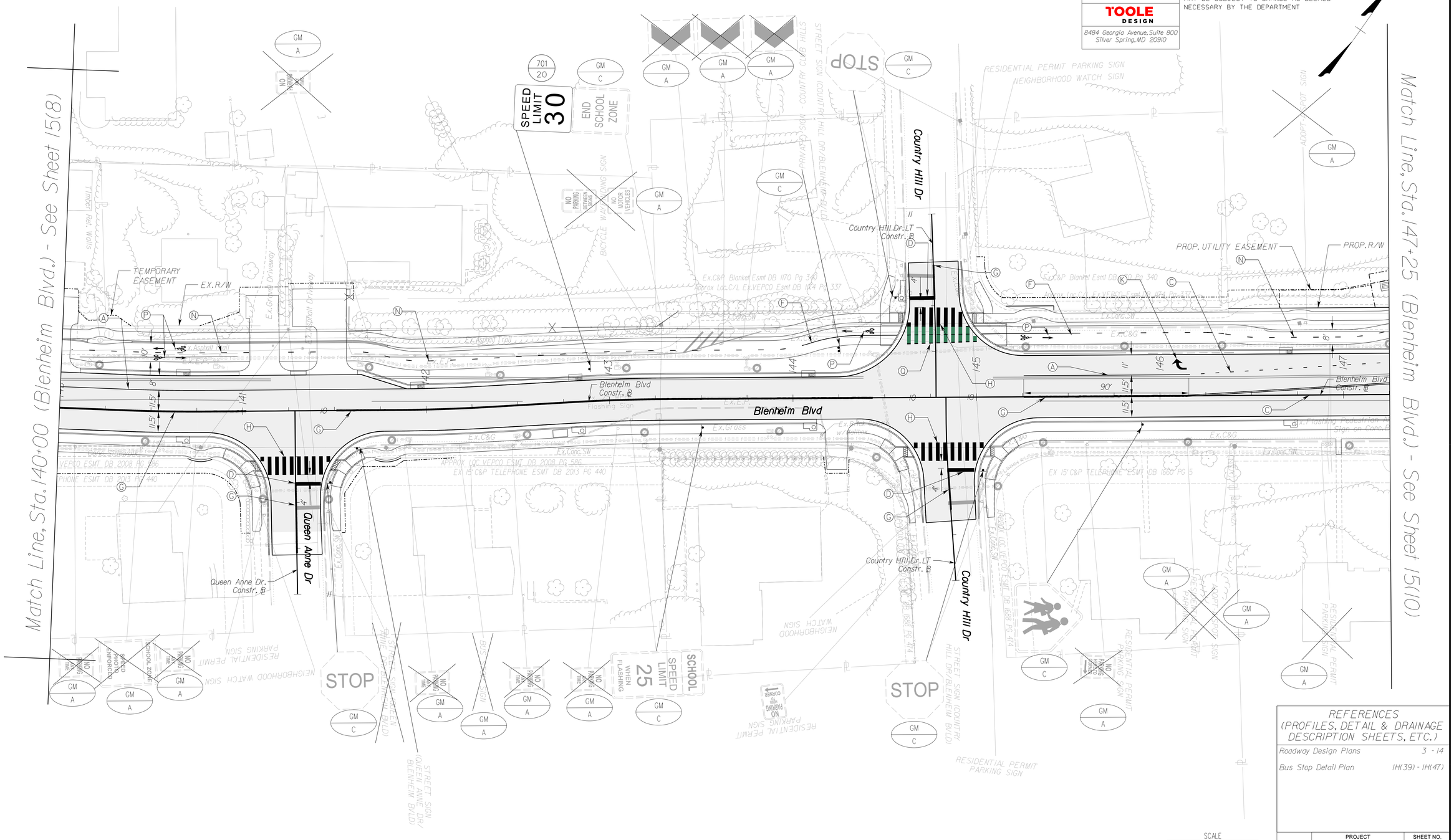
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

PAVEMENT MARKING AND SIGNING PLAN

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

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

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


Match Line, Sta. 140+00 (Blenheim Blvd.) - See Sheet 15(8)
Match Line, Sta. 147+25 (Blenheim Blvd.) - See Sheet 15(10)
Blenheim Blvd
Country Hill Dr
Queen Anne Dr
Blenheim Blvd Constr. B
Country Hill Dr. LT Constr. B
Queen Anne Dr. Constr. B
Country Hill Dr. LT Constr. B
PROP. UTILITY EASEMENT
PROP. R/W
TEMPORARY EASEMENT
EX. R/W
SPEED LIMIT 30
END SCHOOL ZONE
SCHOOL SPEED LIMIT 25 WHEN FLASHING
STOP
STOP
RESIDENTIAL PERMIT PARKING SIGN
NEIGHBORHOOD WATCH SIGN
ADOPT-A-SPOT SIGN
STREET SIGN COUNTRY CLUB HILLS PRIVATE COMMUNITY
STREET SIGN (QUEEN ANNE DR/ BLENHEIM BVLD)
STREET SIGN (COUNTRY HILL DR/BLENHEIM BVLD)
BICYCLE WAY SIGN
BUS STOP SIGN
Ex. Asphalt Trail
Ex. Asphalt Driveway
Ex. Gravel Driveway
Ex. Timber Ret. Wall
Ex. C&G
Ex. Conc. SW
Ex. Grass
Ex. Flashing Pedestrian Sign on Conc. Base
Ex. Bus Shelter w/ Bench
APPROX LOC VEPCO ESMT DB 2008 PG 586
EX 15' C&P TELEPHONE ESMT DB 2013 PG 440
EX 15' C&P TELEPHONE ESMT DB 1688 PG 6
Ex. C&P Blanket Esmt DB 1170 Pg 340
Approx Loc. C/L Ex. VEPCO Esmt DB 1124 Pg 537
Ex. VEPCO Esmt DB 1124 Pg 537
Ex. C&P Blanket Esmt DB 1170 Pg 340

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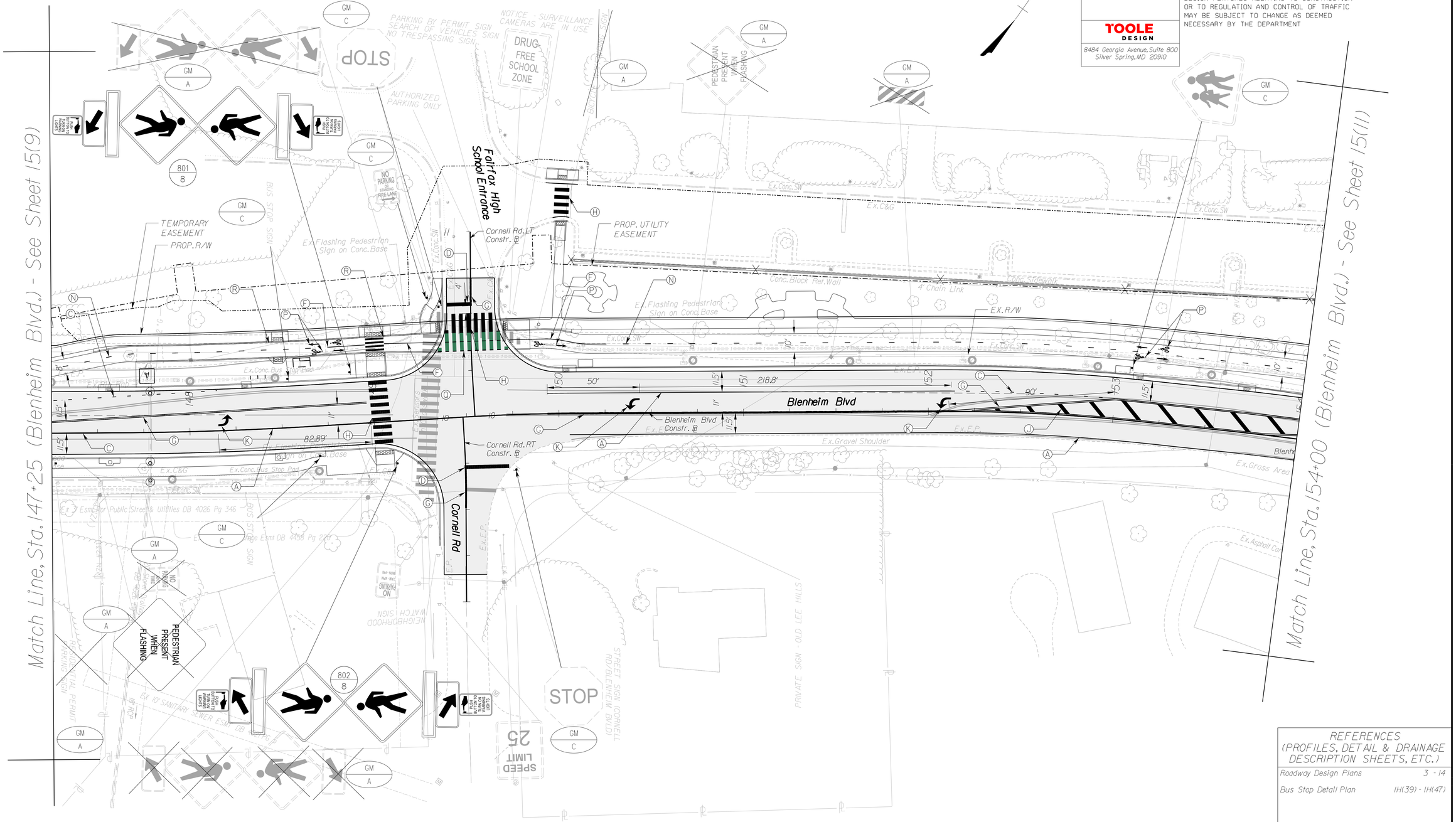
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PAVEMENT MARKING AND SIGNING PLAN

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

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



SCALE
0 25' 50'

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

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

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

FINAL PLANS

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

3/24/2025
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Plotted By: TonyTrefzger

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PHONE: 301.927.1900
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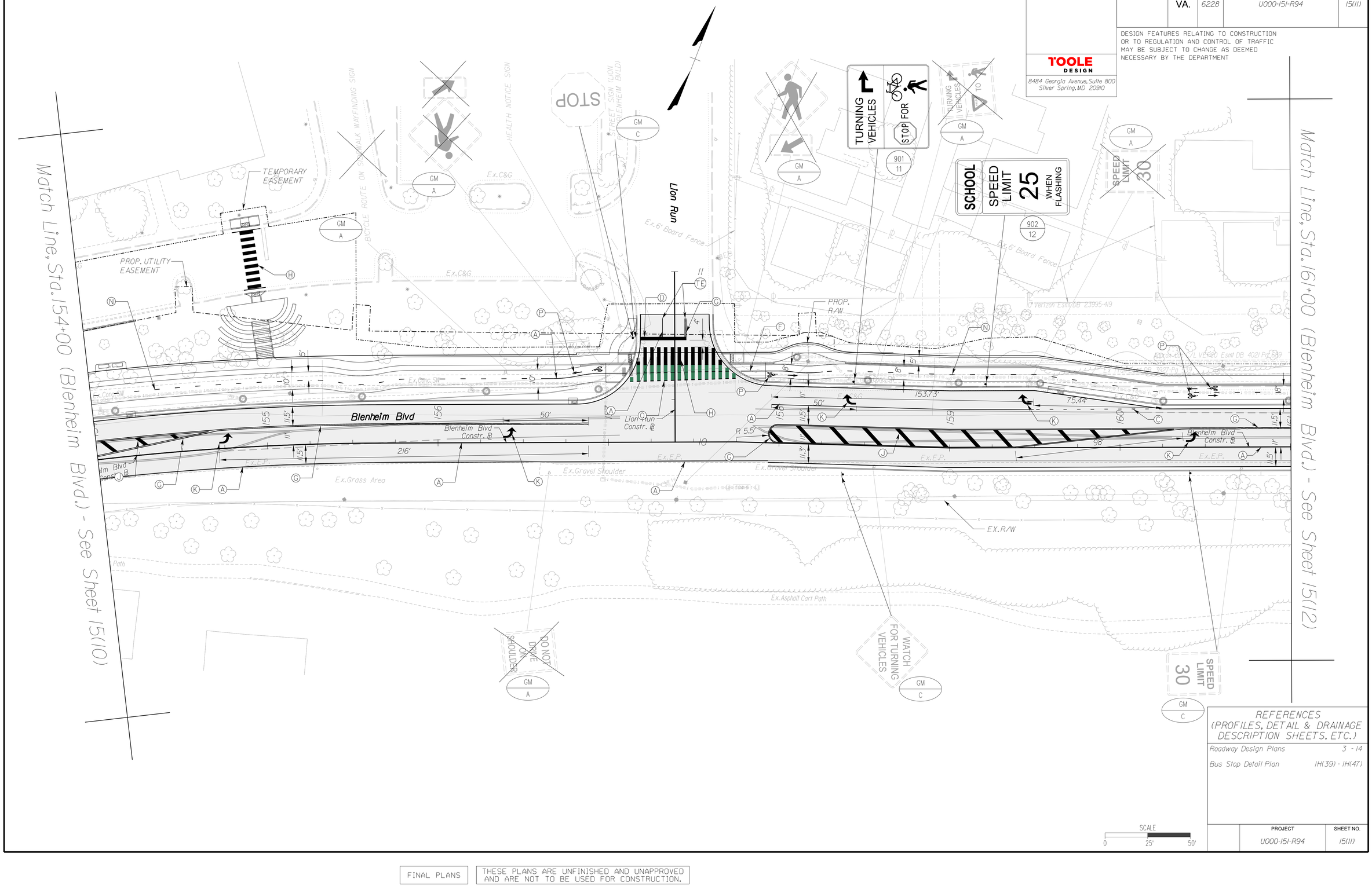
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PAVEMENT MARKING AND SIGNING PLAN

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

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

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



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

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

SCALE 0 25' 50'

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

FINAL PLANS

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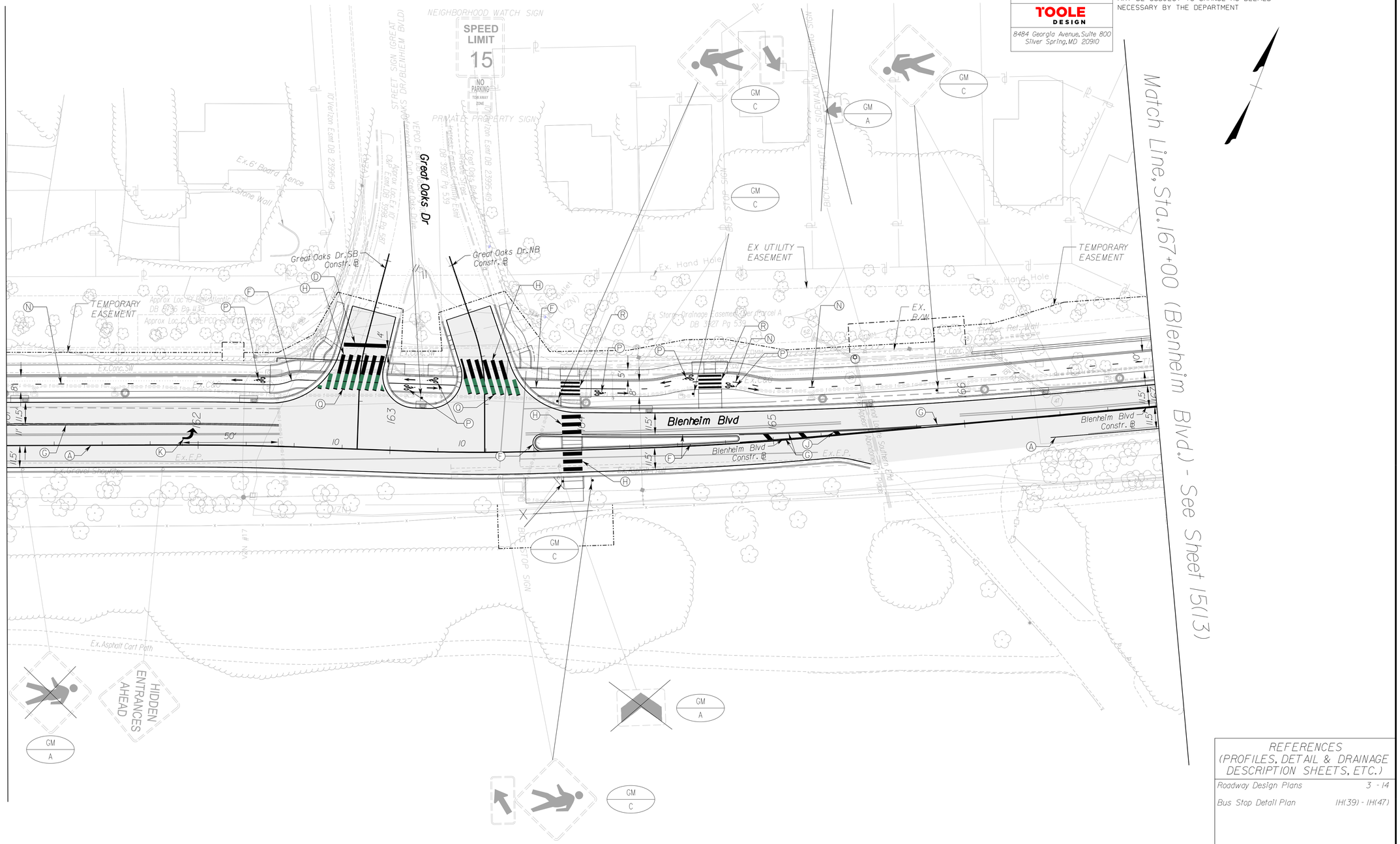
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

PAVEMENT MARKING AND SIGNING PLAN

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

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

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


Match Line, Sta. 161+00 (Blenheim Blvd.) - See Sheet 151(11)
Match Line, Sta. 167+00 (Blenheim Blvd.) - See Sheet 151(13)
NEIGHBORHOOD WATCH SIGN
SPEED LIMIT 15
NO PARKING TOW AWAY ZONE
PRIVATE PROPERTY SIGNS
STREET SIGN (GREAT OAKS DR./BLENHEIM BLVD)
Great Oaks Dr
Great Oaks Dr.SB Constr. ℄
Great Oaks Dr.NB Constr. ℄
Blenheim Blvd
Blenheim Blvd Constr. ℄
Blenheim Blvd Constr. ℄
Blenheim Blvd Constr. ℄
EX UTILITY EASEMENT
TEMPORARY EASEMENT
TEMPORARY EASEMENT
EX. R/W
Ex. Hand Hole
Ex. Timber Ret. Wall
Ex. 6' Board Fence
Ex. Stone Wall
Ex. Asphalt Cart Path
Ex. E.P.
Ex. Conc. SW
Ex. Storm Drainage Easement Over Parcel A DB 3927 Pg 539
Ex. Storm Drainage Easement Over Parcel A DB 23995-49
Approx Loc of Dominion Power Ex. Underground Elec. Line DB 23995-49
Approx Loc of Verizon Ex. Underground Comm. Line DB 23995-49
Approx Loc of Verizon Ex. Underground Comm. Line DB 3927 Pg 539
Verizon Ex. Underground Comm. Line DB 23995-49
Ex. Storm Drainage Easement Over Parcel A DB 3927 Pg 539
Ex. Gas Line DB 23995-49
Ex. Gas Line

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SILVER SPRING, MD 20910
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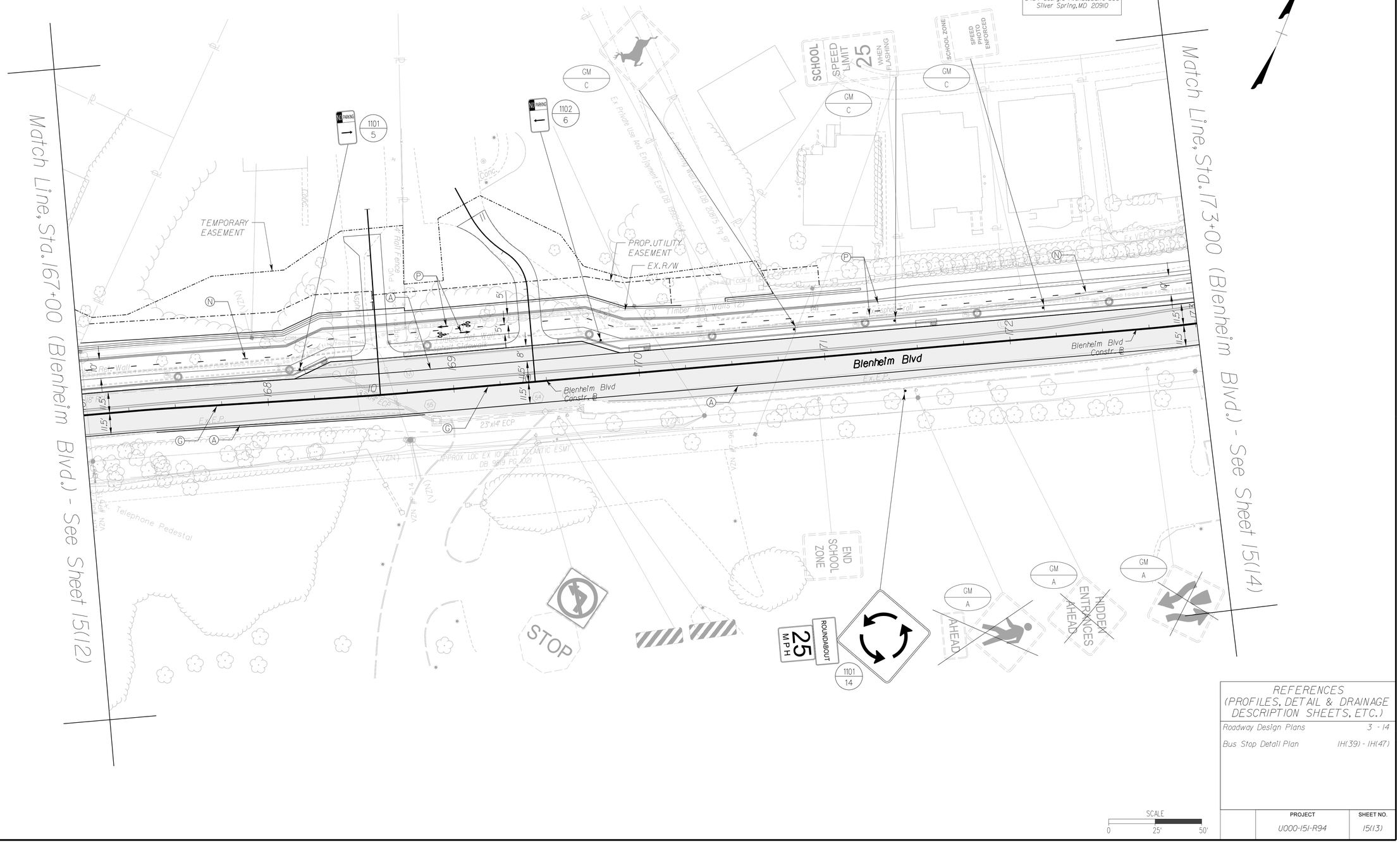
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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PAVEMENT MARKING AND SIGNING PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(13)

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



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

	PROJECT	SHEET NO.
	U000-151-R94	15(13)

FINAL PLANS

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Plotted By: TonyTrefzger

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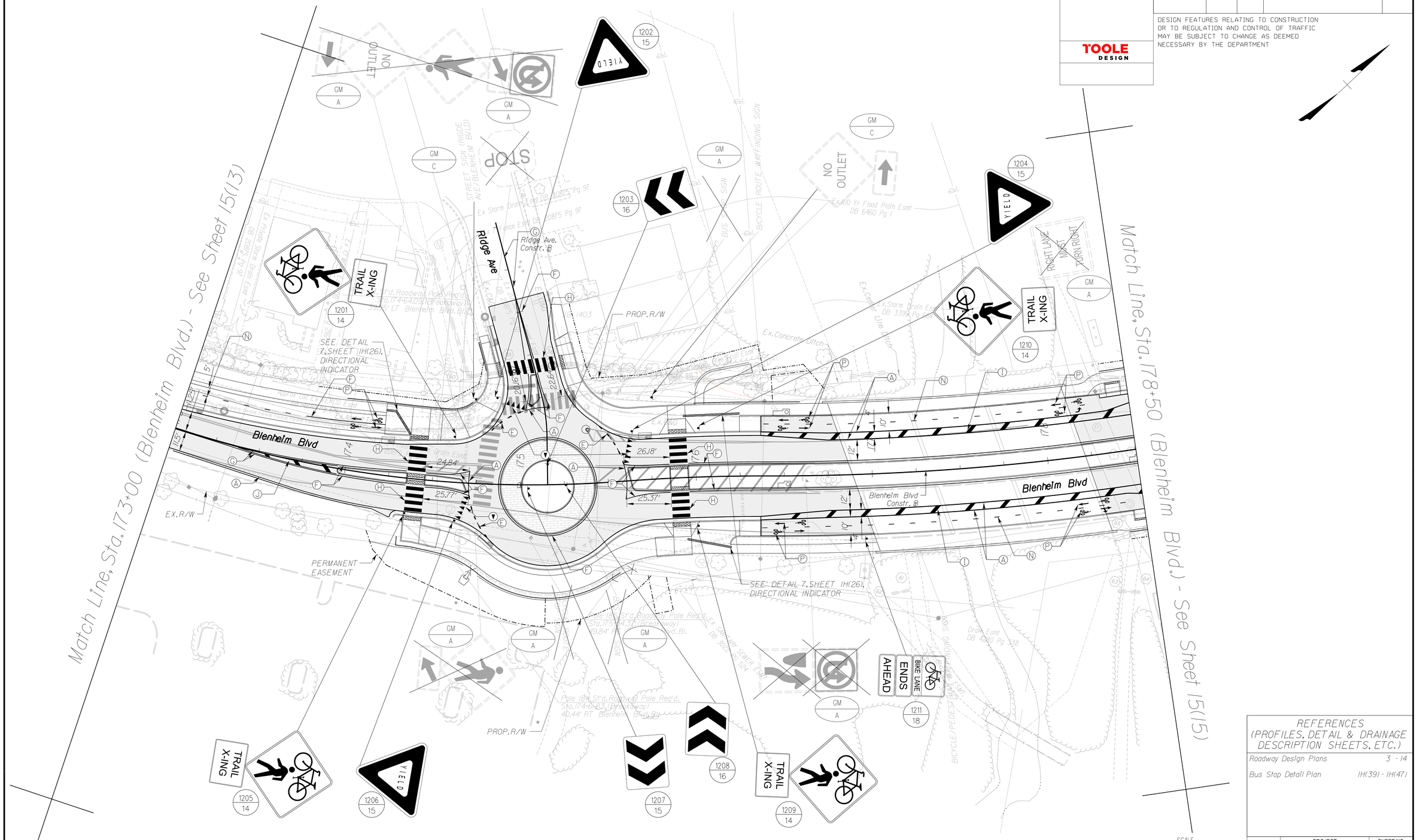
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
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DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

PAVEMENT MARKING AND SIGNING PLAN

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

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

TOOLE DESIGN



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(14)

FINAL PLANS

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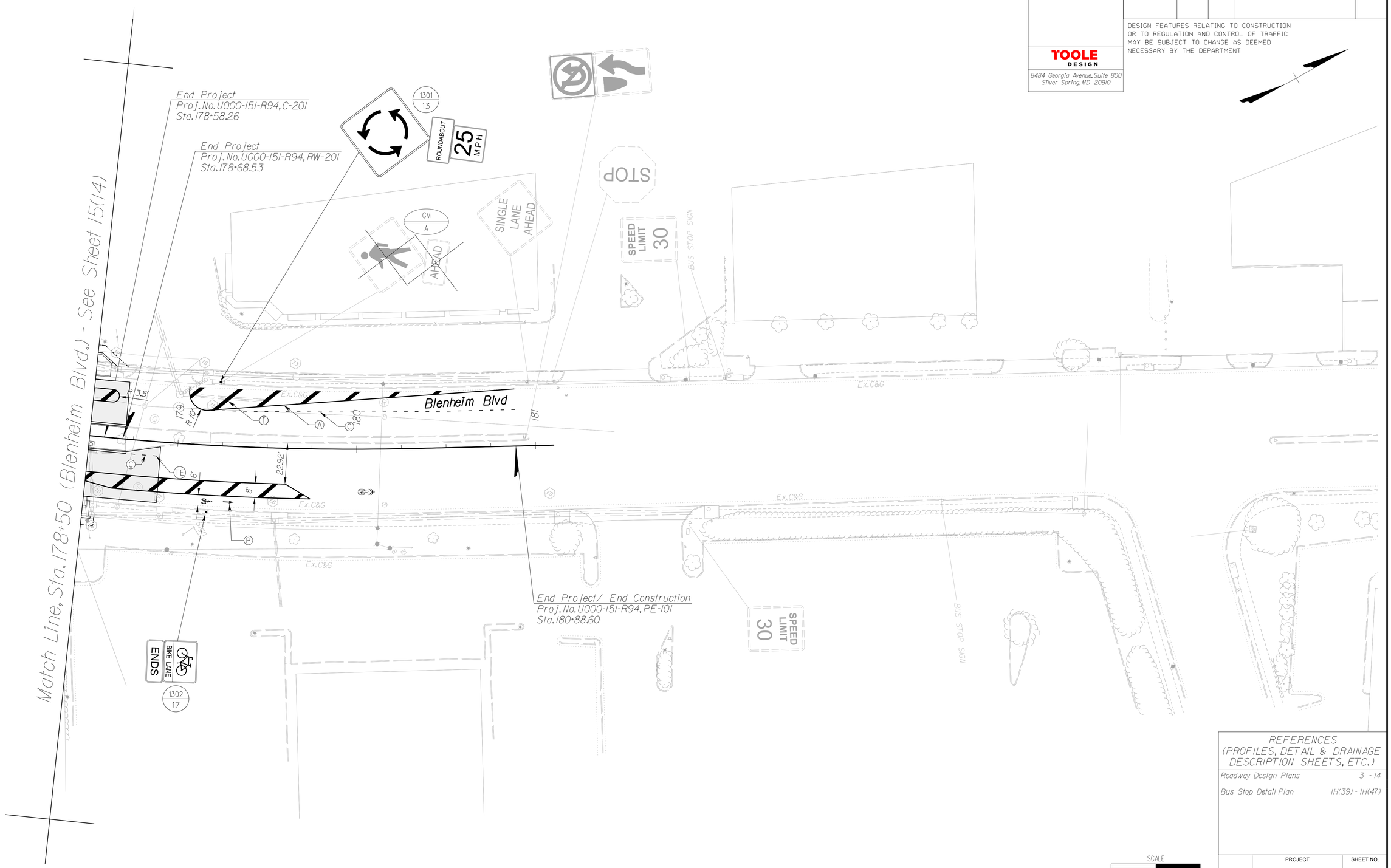
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PAVEMENT MARKING AND SIGNING PLAN

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

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



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

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

SCALE
0 25' 50'

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

FINAL PLANS

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SILVER SPRING, MD 20910
PHONE: 301.927.1900
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www.tooledesign.com

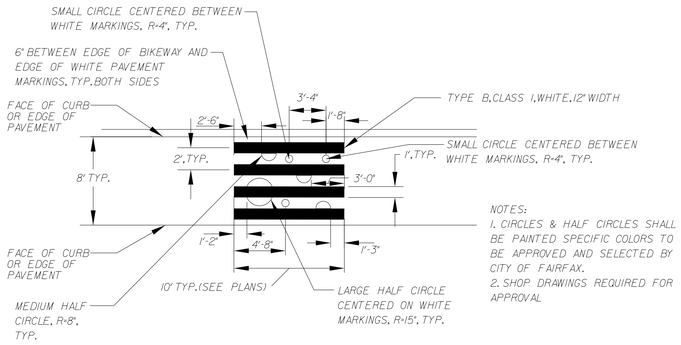
PROJECT MANAGER Wendy Block Sanford, (703) 385-7889
SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

PAVEMENT MARKING AND SIGNING PLAN: DETAILS

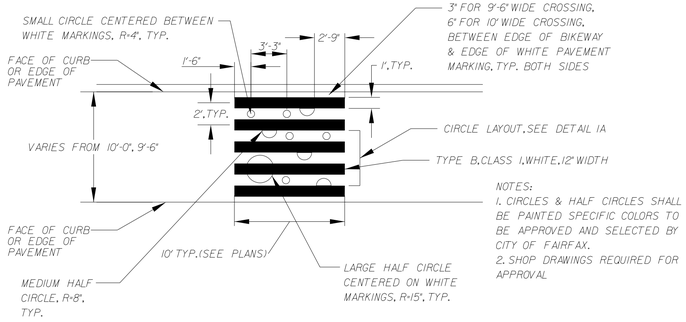
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6228	U000-151-R94	15(16)

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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8484 Georgia Avenue, Suite 800
Silver Spring, MD 20910

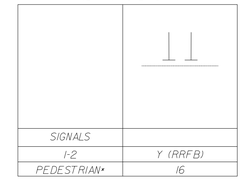


DETAIL 1A: 8' WIDE PEDESTRIAN BIKEWAY CROSSING
N.T.S.



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

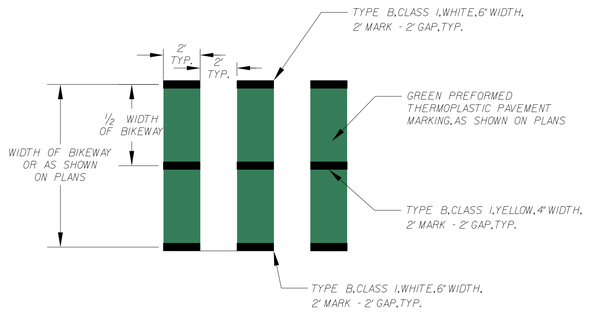
MOVEMENT SEQUENCE AND TIMING DIAGRAM



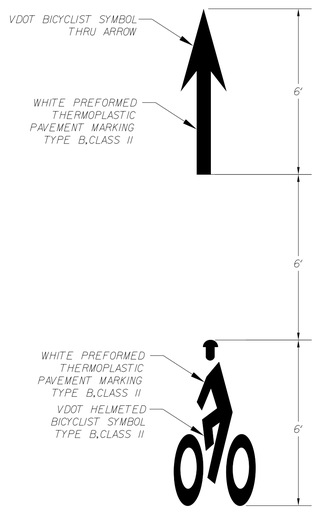
SIGNALS	
1-2	Y (RRFB)
PEDESTRIAN*	16

DETECTOR NOTES

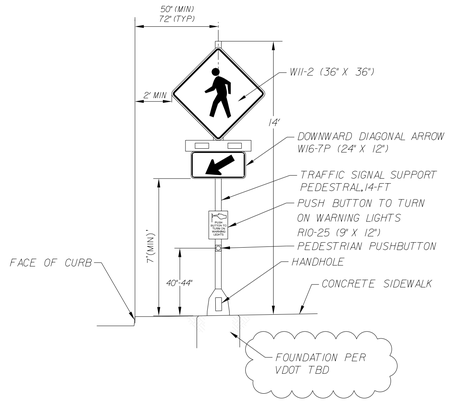
1. * PUSH BUTTON DETECTORS 1 AND 2 ACTIVATE RRFB SIGNALS 1-2. THE SIGNALS SHALL REMAIN FLASHING FOR 16 SECONDS AFTER A DETECTOR HAS BEEN CALLED.
2. ADDITIONAL CALLS SHALL RESET FIXED FLASH TIME.



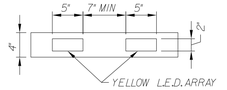
DETAIL 2: TWO-WAY BIKEWAY CROSSING
N.T.S.



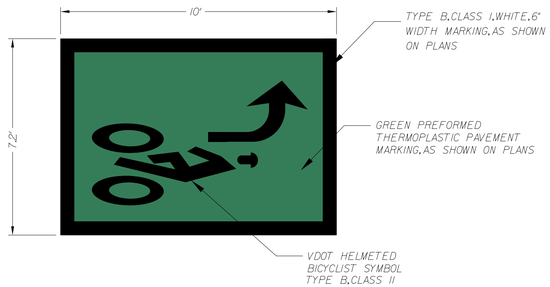
DETAIL 3: BICYCLE LANE SYMBOL
N.T.S.



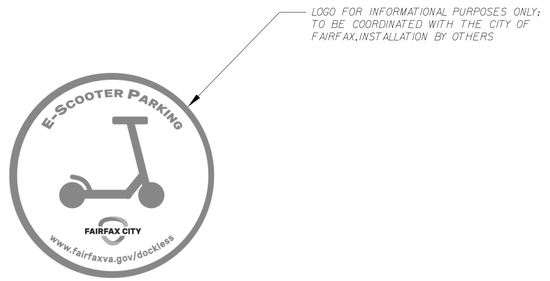
DETAIL 4A: PEDESTAL MOUNTED RECTANGULAR RAPID FLASHING BEACON
N.T.S.



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



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



DETAIL 6: SCOOTER CORRAL
N.T.S.

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

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)

Traffic Signal Index of Sheets, General Notes, & Legends

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

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

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 (Std. PF-2)			
Pedestal Pole and Foundation (Std. PA-3)			
Traffic Signal Head	w/ Backplate		
	w/o Backplate		
Pedestrian Signal Head			
Pedestrian Pushbutton & Sign		P.B.	P.B.
Traffic Signal Sign	Mast Arm or Span Wire Mt'd.		
	Pole Mounted		
Emergency Vehicle Pre-emption (EVP) Sensor			
	w/ Conf. Light		
	w/o Conf. Light		
Video Detection Camera			
Junction Box (Std. 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
	Pole Mounted	CC	CC
Master Controller Cabinet	Ground Mounted	MC	MC
	Pole Mounted	MC	MC
Controller Cabinet & Foundation	Std. CF-1	CC 1	CC 1
	Std. CF-3	CC 3	CC 3
	Std. CF-4	CC 4	CC 4
Master Controller Cabinet & Foundation	Std. CF-1	MC 1	MC 1
	Std. CF-3	MC 3	MC 3
	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
Existing Signal Pole or Controller	A	Existing Signal Head	2	Pedestrian Phasing	P2
Cable and Conduit	A	Proposed Pedestrian Signal Head	P2		
Existing Cable and Conduit	A	Existing Pedestrian Signal Head	P2		
Junction Box	S3				

Sign	S-1	
Video Detection Camera	VDC-1	
Emergency Preemption Detector	EVP-1	

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, 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 Contractor is responsible for submitting traffic signal timing data needed for coordination no more than six (6) months prior to project completion and no less than sixty (60) days prior to the activation of the traffic signal. The Signal Operations section requests the latest data for the implementation and has enough time to review. In addition, the approved timings are valid for 6 months only and should reflect the current operation condition as they will be implemented in the field at that time; This includes eight (8) time of day timing plans to reflect cycle lengths necessary to accommodate changes in traffic patterns for periods including A.M. peak, Mid-day, P.M. peak, off peak and weekends (Week-Am, Sat peak, Sun peak and Week-PM). These timing plans are to be submitted to the VDOT Permits section for review and approval by the Signal Operations section to be provided in an electronic file format compatible with the Synchro program used by VDOT.

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 electrical service to the traffic signal. The project shall be responsible for coordinating the location and the installation of the electrical service for the traffic signal with the local utility company. The NOVA Spec. SE-5 electrical service shall be installed in accordance with Standard SE-5 shown on the plan and section 238.02(H) of the VDOT Road and Bridge Specifications. Electrical service shall be metered.

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 VDOT with shop drawings of all required equipment. Contractor will also provide a list of product data for these items to the VDOT Engineer 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 Std 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 VDOT's requirements.

18. All Pedestrian signals shall be in accordance with Standard SP-8.

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. The Contractor shall contact VDOT's Northern Region Operations Communications Group at novatfcommpvdot.virginia.gov ninety (90) days prior to the start of the traffic signal construction to identify the designated communication platform and to initiate the broadband circuit ordering process.

21. The 3" PVC Communication Conduit that is installed as detailed in VDOT R&B Std 130.50 shall terminate into the Communication JB-S4. The Communication JB-S4 shall be installed, with concrete collar, within 10 feet of the CF-5 Foundation and shall be on the same side of the foundation as the 3" conduit's exit from the foundation. The required ground electrode for the communication circuit shall be installed in this JB-S4. The Junction Box Lid shall have "COMM" cast in the depression on top. Pull Rope rated at 1100 lbs shall be installed in all communication conduits.

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 10 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 Std SMB-3.

TRAFFIC CONTROL DEVICE PLANS

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

	PROJECT	SHEET NO.
	U000-151-R94	16

4/22/2025

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)

Pedestrian Actuation Installation Details

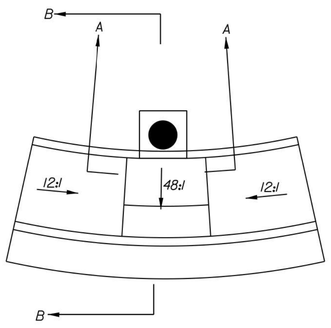
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

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

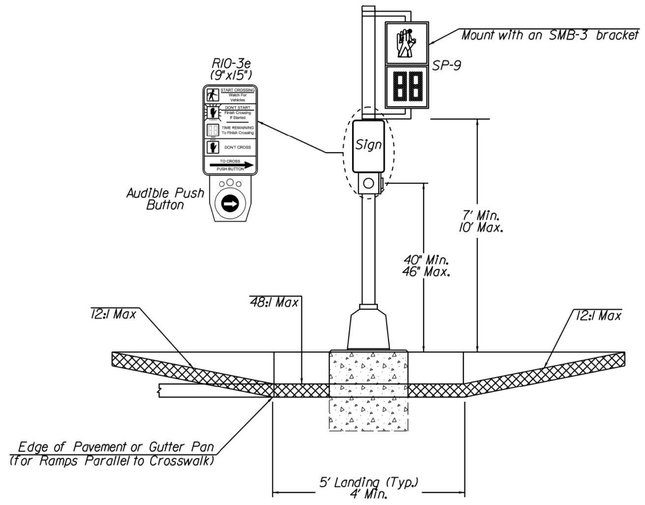
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	16(1)

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

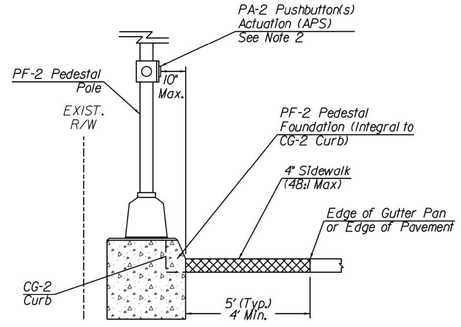
PF-2



PF-2 PLAN VIEW DETAIL



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

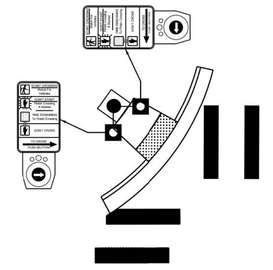


SECTION B-B
PF-2 FOUNDATION INSTALLATION
BACK OF CURB - OUTSIDE SIDEWALK

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.

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



TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL
PEDESTRIAN ACTUATION
INSTALLATION DETAILS

CITY OF FAIRFAX

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

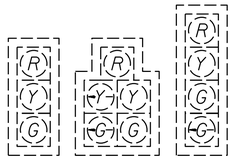
4/22/2025

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

Existing Signals

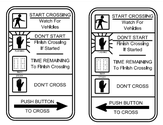




Proposed Signals

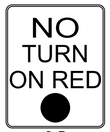


Proposed Signs

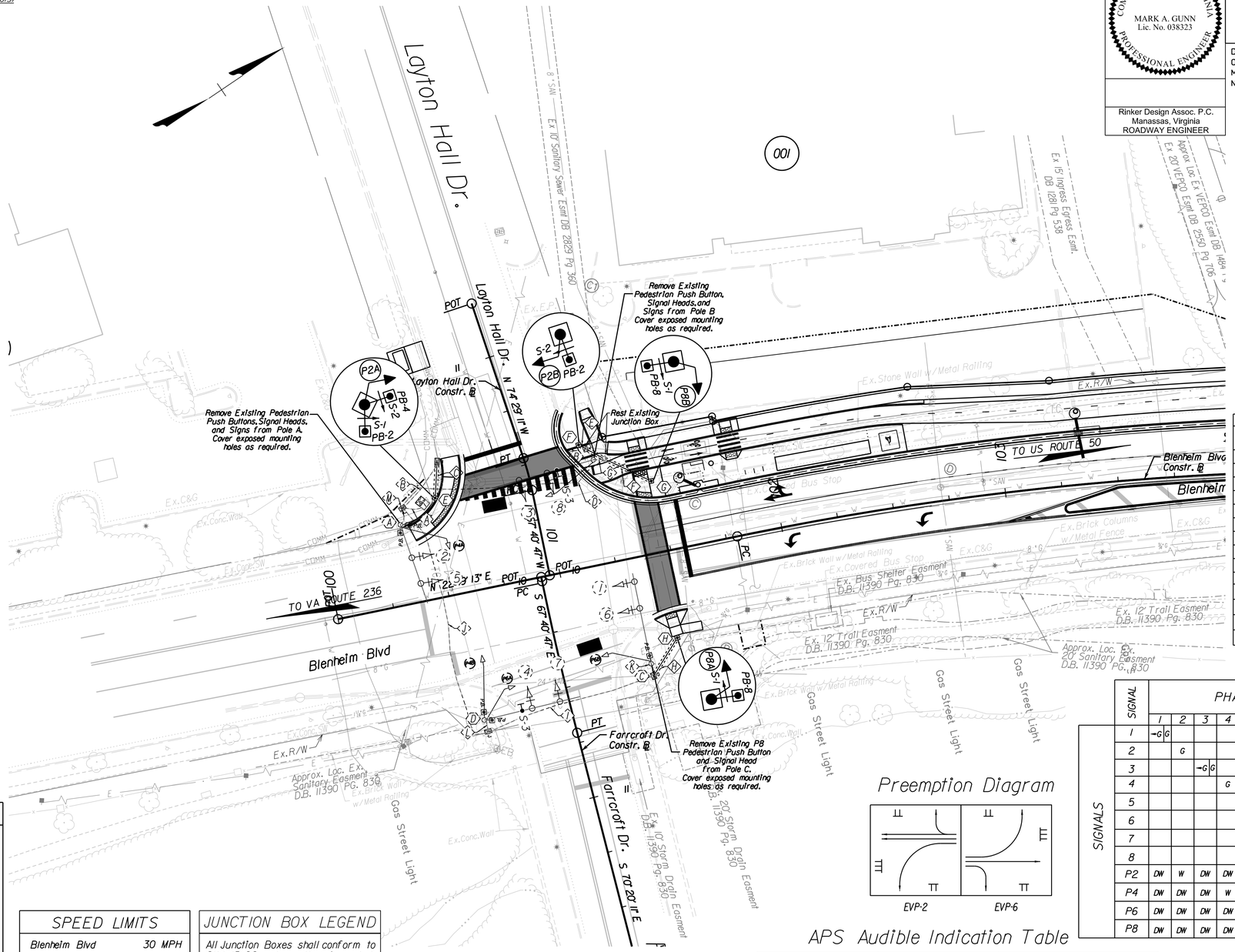


S-1
R10-3eR
9"x15"

S-2
R10-3eL
9"x15"



S-3
R10-11
30"x36"



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

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
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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

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-21.10'
  43.7' LT. of Blenheim Blvd Constr. @ Sta. 100+52.8
- (F) PEDESTAL POLE (PF-21.10'
  25.1' RT. of Layton Hall Dr Constr. @ Sta. 10+52.3
- (G) PEDESTAL POLE (PF-21.10'
  31.6' LT. of Blenheim Blvd Constr. @ Sta. 101+47.7
- (H) PEDESTAL POLE (PF-21.10'
  38.4' RT. of Blenheim Blvd Constr. @ 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

SIGNALS	SIGNAL	PHASES								COMBINATIONS								FLASH
		1	2	3	4	5	6	7	8	1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	
	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

Preemption Diagram

CABLE AND CONDUIT LEGEND

- (A) Existing Conduit
- (B) Existing Conduit
  Add New 4-1/4/2c, 3-1/4/7c
- (C) 3" Conduit - 2-1/4/2c, 1-1/4/7c, 1-EGC*)
- (D) Existing Bored Conduit
  Add New 2-1/4/2c, 2-1/4/7c
- (E) 3" Conduit - 1-1/4/2c, 1-1/4/7c, 1-EGC*)
- (F) 3" Conduit - 1-1/4/2c, 1-1/4/7c, 1-EGC*)
- (G) Existing Conduit
  Add New 2-1/4/2c, 2-1/4/7c
- (H) 3" Conduit - 1-1/4/2c, 1-1/4/7c, 1-EGC*)
- (I) Existing Bored Conduit
  Add New 1-1/4/2c, 1-1/4/7c
- (J) Existing Bored Conduit
  Add New 1-1/4/2c, 1-1/4/7c
- (K) Existing Conduit
- (L) Existing Conduit
- (M) Existing Conduit

SPEED LIMITS

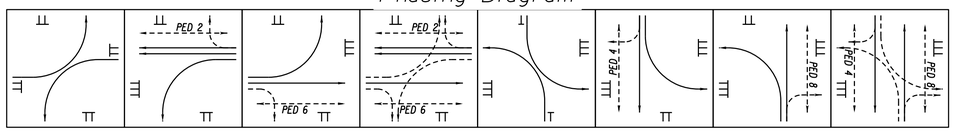
Blenheim Blvd	30 MPH
Layton Hall Dr	25 MPH
Farrcroft Dr	25 MPH

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



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.

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

CITY OF FAIRFAX

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

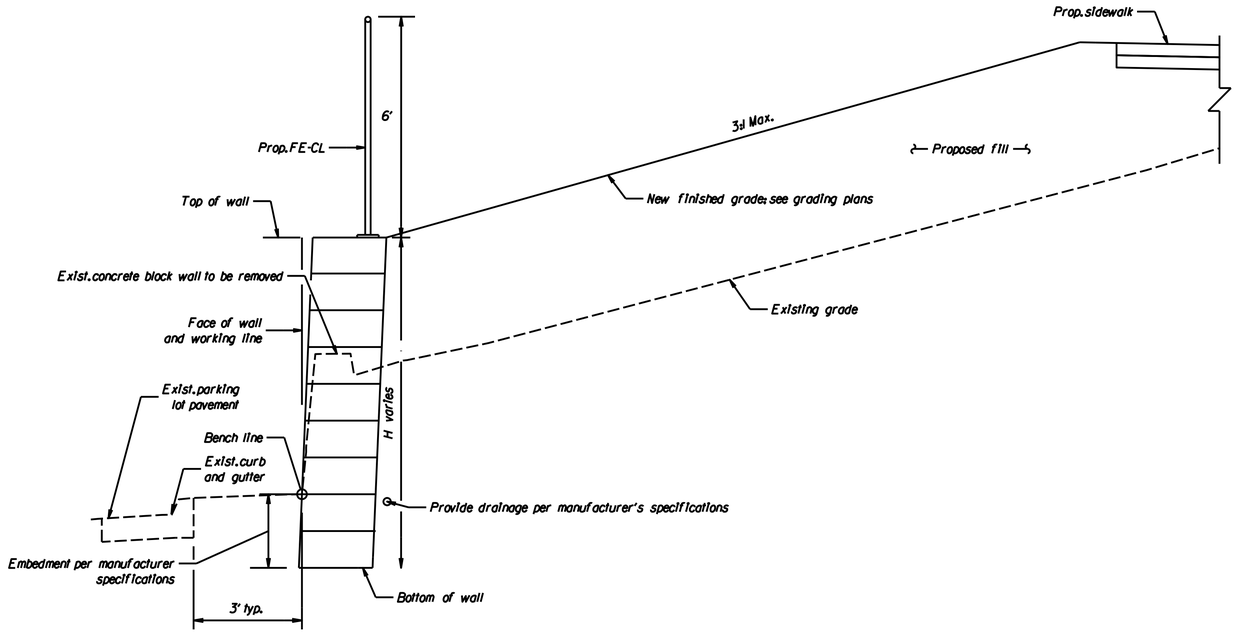
FINAL PLANS

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4/22/2025

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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)

SEGMENTED BLOCK RETAINING WALL DETAILS



A 17(4) 17A SECTION

TYPICAL SECTION AT RW-C

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

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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.

	PROJECT	SHEET NO.
	U000-151-R94	17A

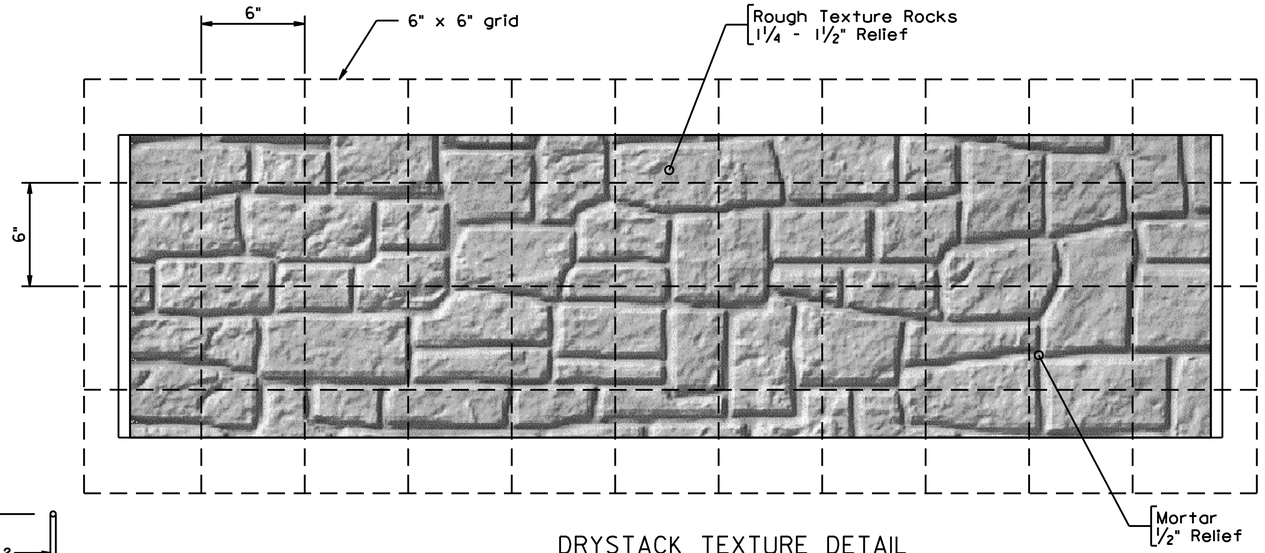
4/24/2025

FINAL PLANS

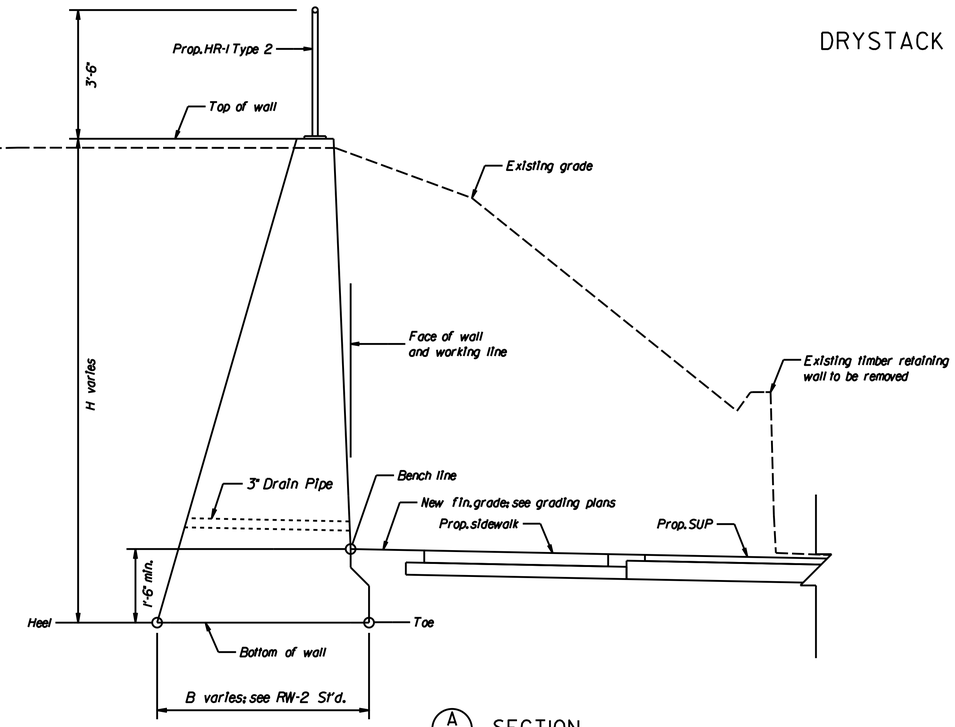
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SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

GRAVITY WALL DETAILS (SHEET 2 OF 2)



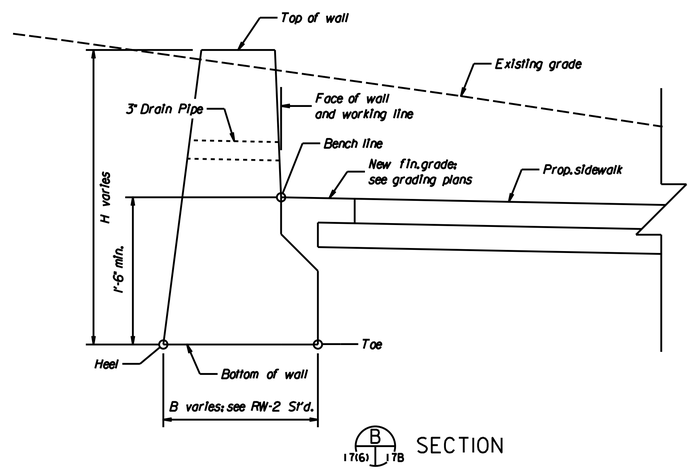
DRYSTACK TEXTURE DETAIL



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.

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

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

4/24/2025

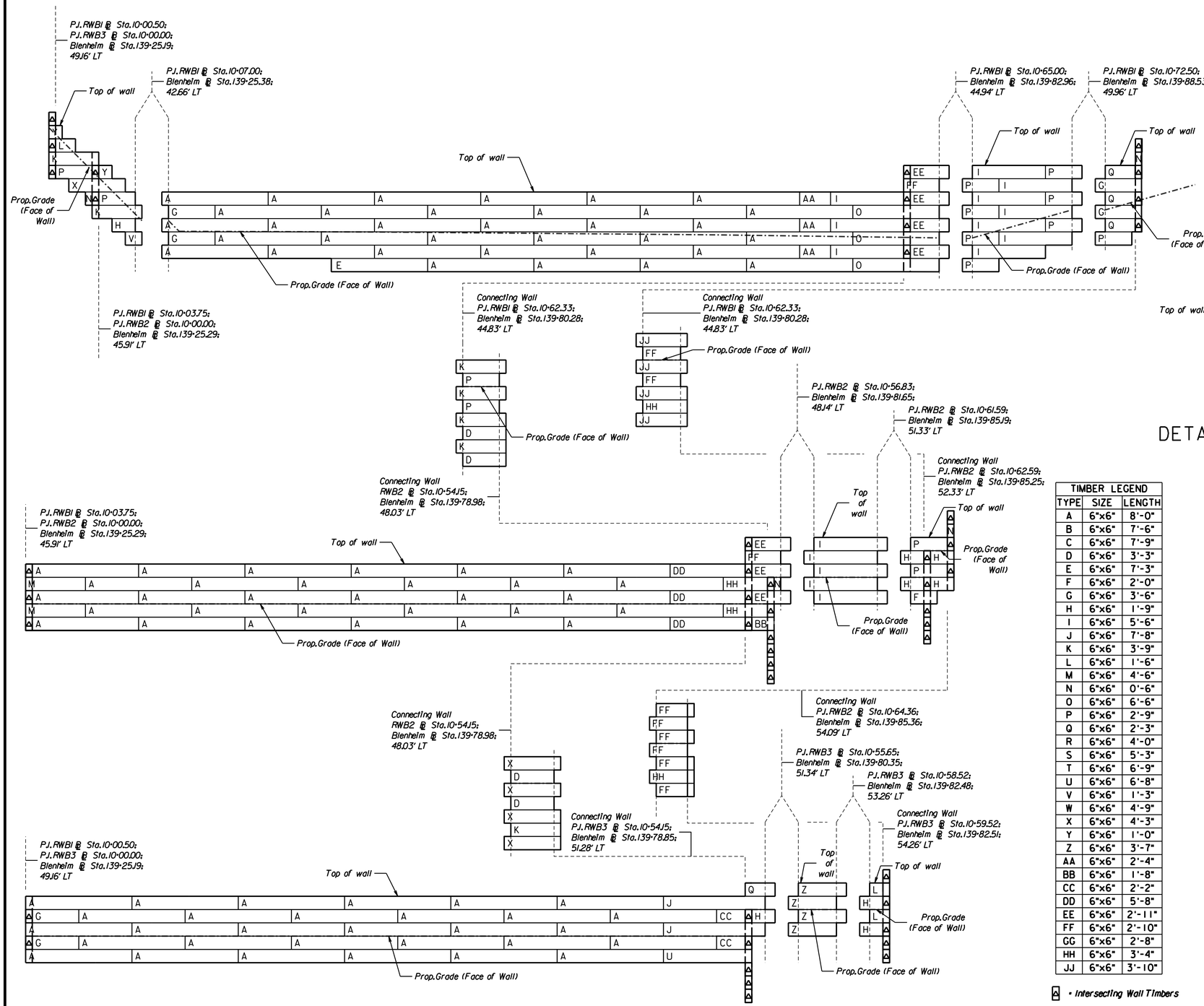
PROJECT	SHEET NO.
U000-151-R94	17B

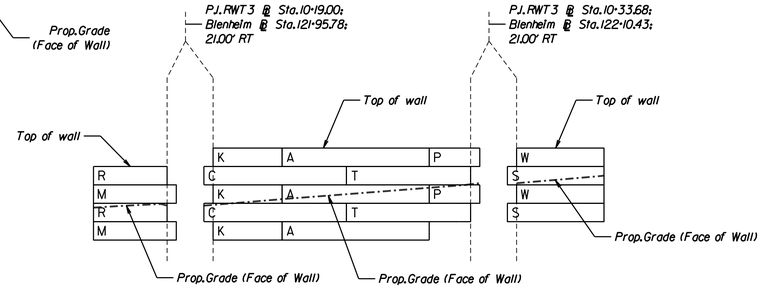
FINAL PLANS

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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





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:

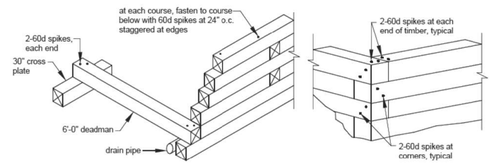


FIGURE 2: TYPICAL FASTENERS FOR TIMBER RETAINING WALLS

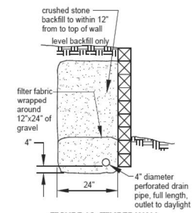


FIGURE 12: TIMBER WALL BACKFILL AND DRAINAGE

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

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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

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

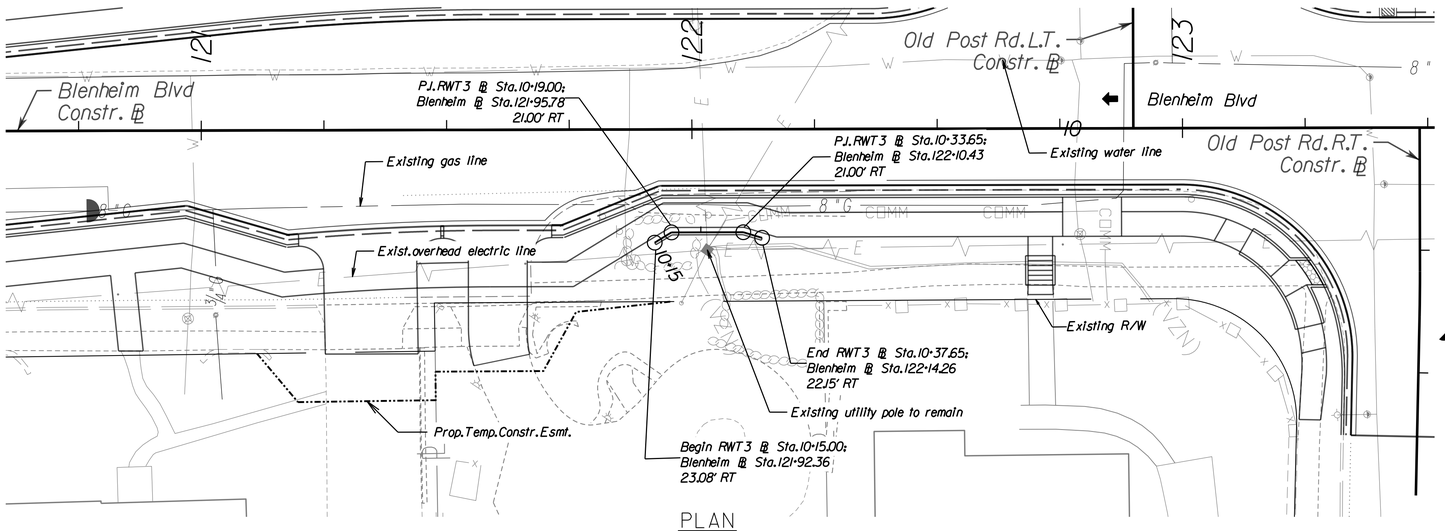
4/24/2025

FINAL PLANS

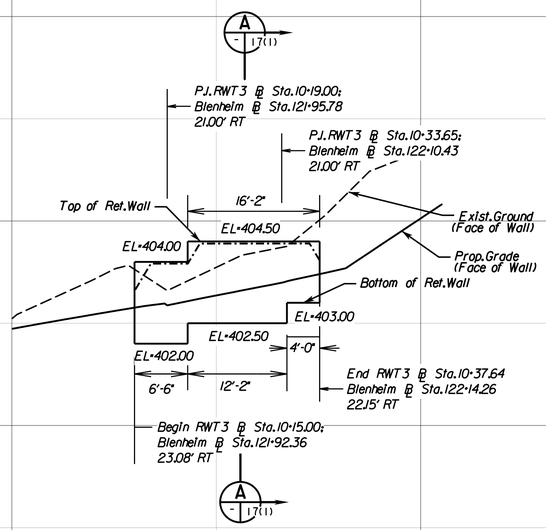
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

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



PLAN



DEVELOPED PROFILE

RW-T3 BASELINE | 10+00.00 | 10+50.00 | 11+00.00

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

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
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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.
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)

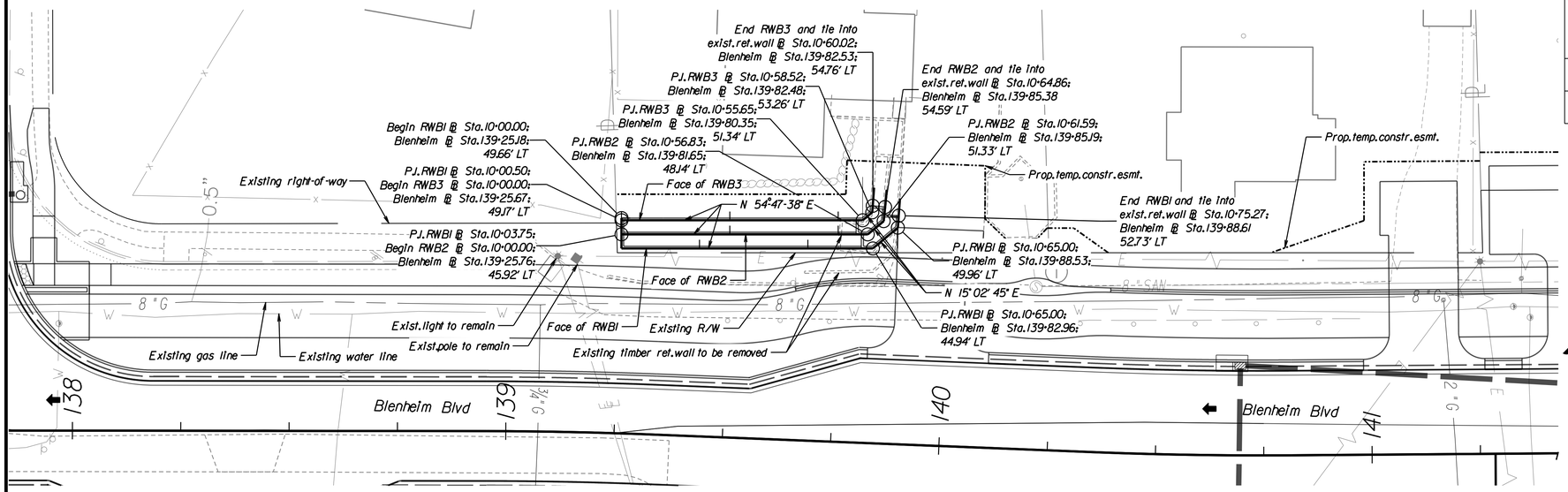
4/24/2025

FINAL PLANS

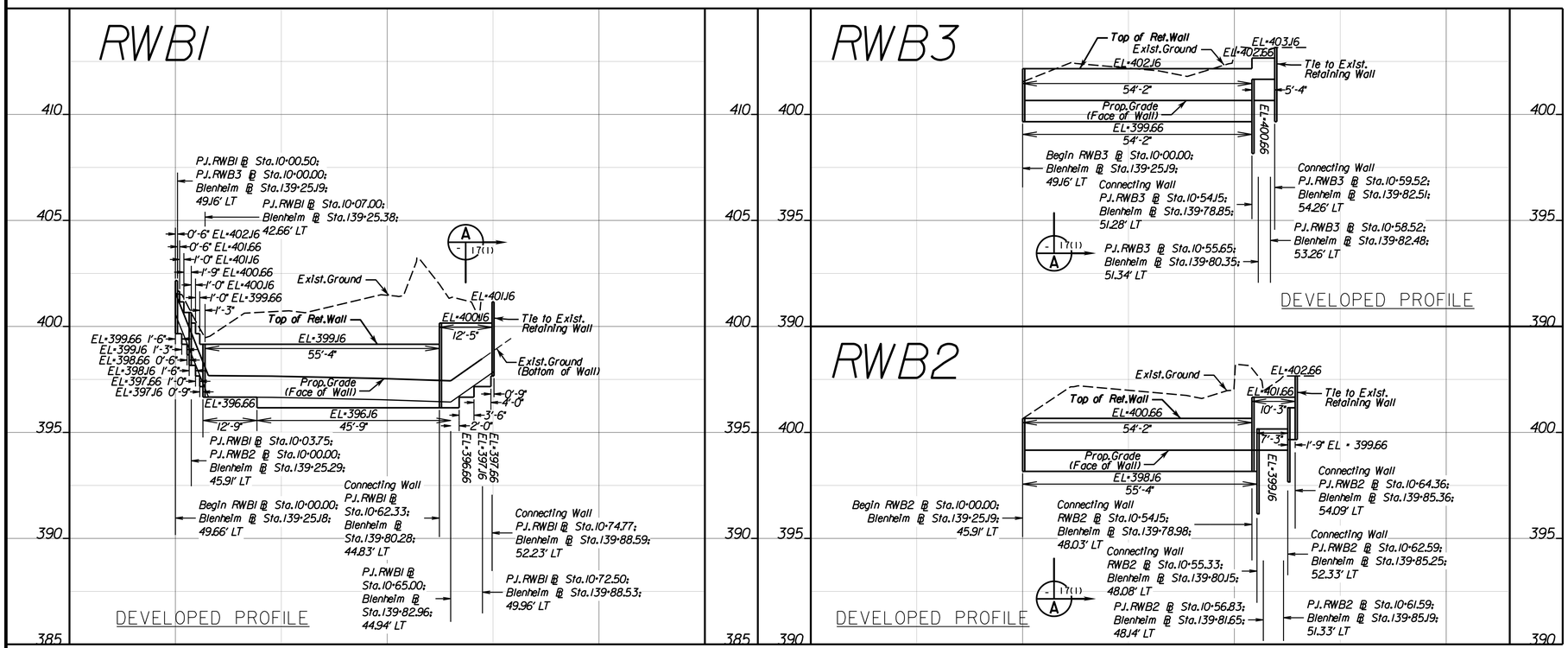
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SURVEYED BY, DATE Nick Kougalis, L.S., (703) 368-7373 (2020)
DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

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



PLAN



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

COMMONWEALTH OF VIRGINIA
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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	401.66'	401.57'	401.57'	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)

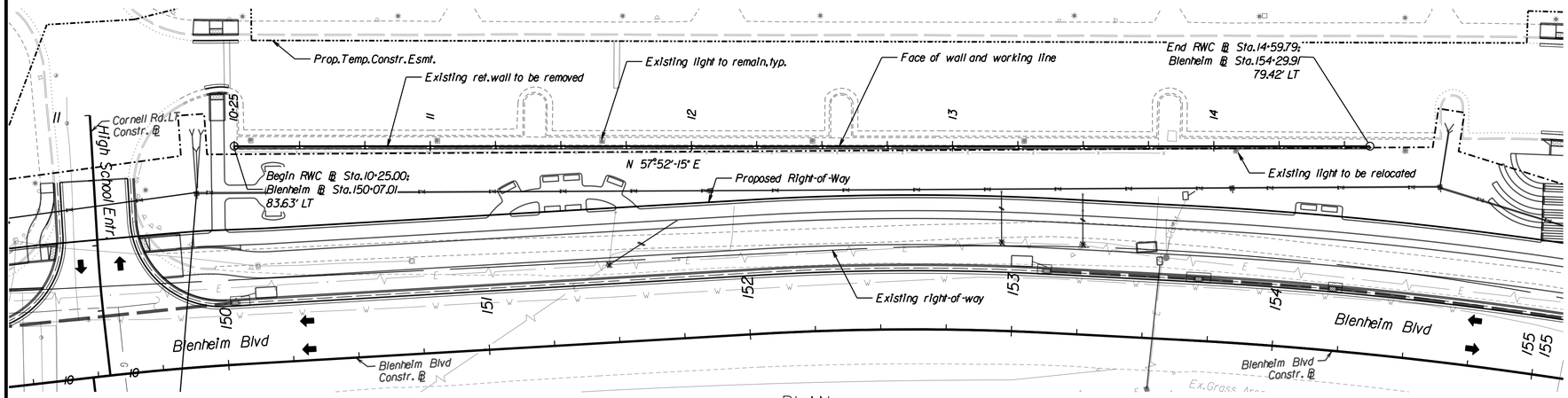
4/24/2025

FINAL PLANS

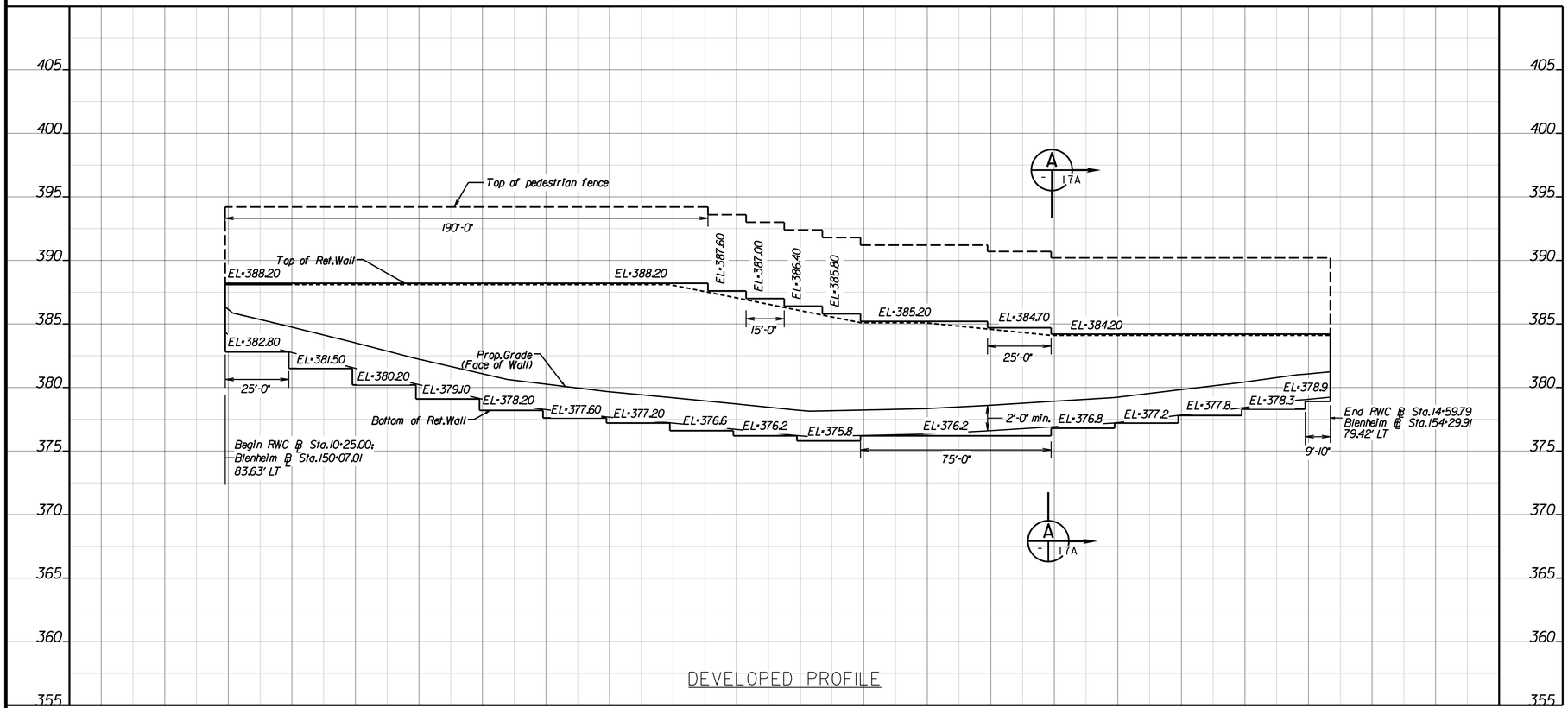
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DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

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



PLAN



DEVELOPED PROFILE

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Lic. No. 038323
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

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

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

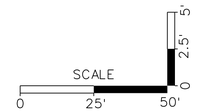
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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'



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

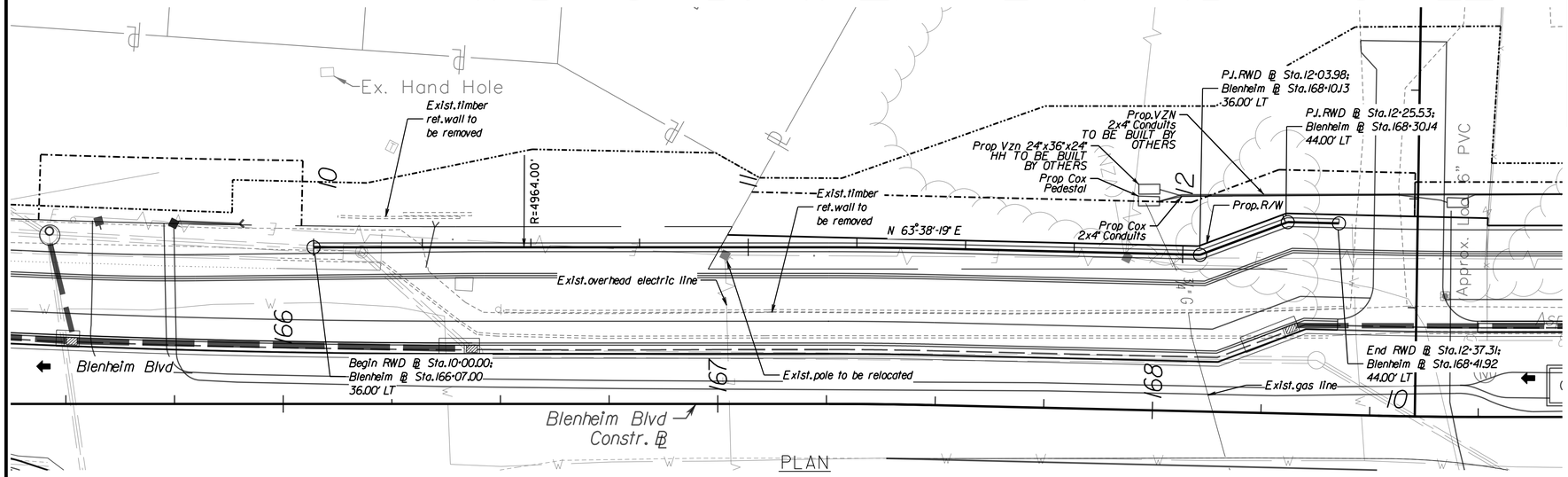
FINAL PLANS

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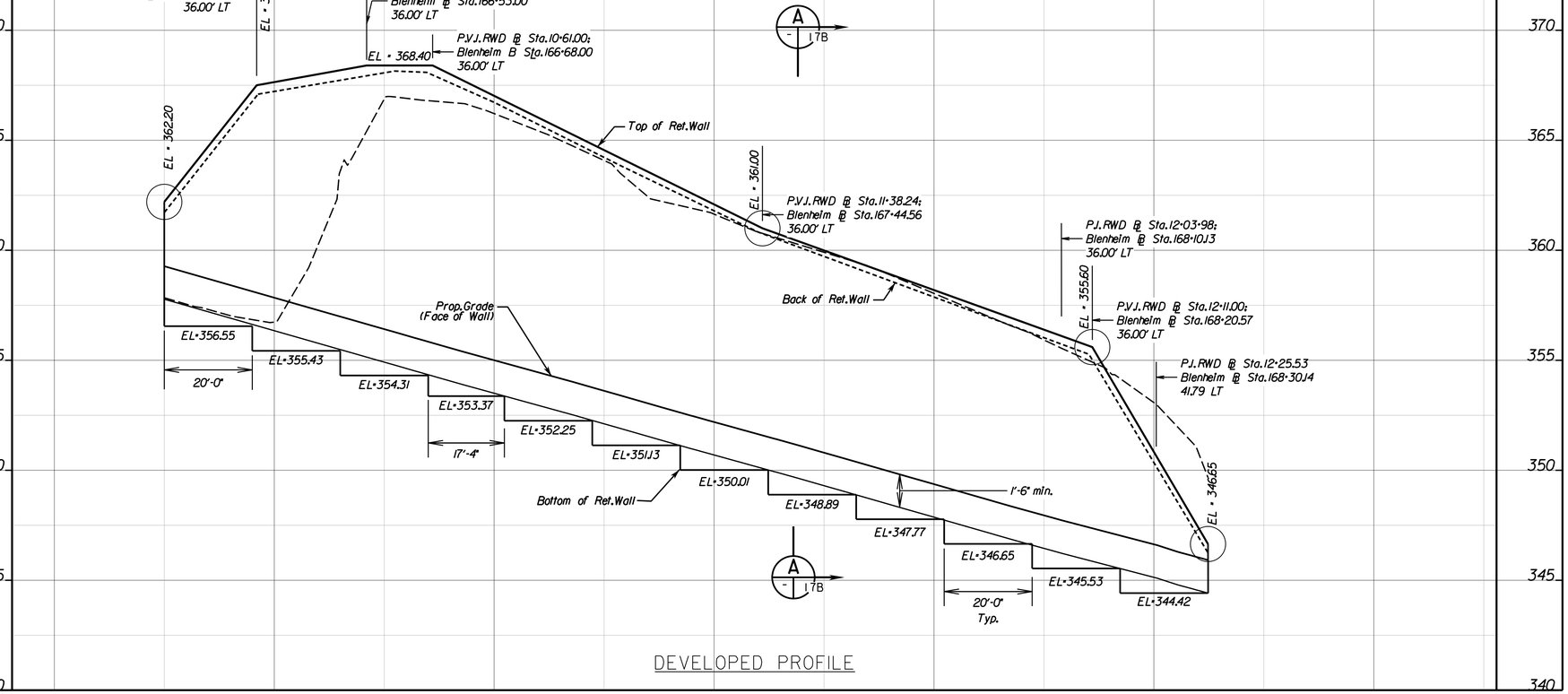
4/24/2025

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

RWD BASELINE 10+00.00 10+50.00 11+00.00 11+50.00 12+00.00 12+50.00

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
166+07.00'	10+00.00'	362.20'	357.84'	359.28'	357.78'
166+28.00'	10+21.00'	367.50	356.81'	357.85'	356.35'
166+53.00'	10+46.00'	368.40'	365.42'	356.64'	355.14'
166+68.00'	10+61.00'	368.40'	366.79'	355.79'	354.29'
167+44.56'	11+38.24'	361.00	360.77'	351.59'	350.09'
168+10.13'	12+03.98'	356.11'	355.54'	347.73'	346.23'
168+20.57'	12+11.00'	355.60'	354.92'	347.36'	345.86
168+30.14'	12+25.53'	350.66'	353.00'	346.60'	345.10'
168+41.92'	12+37.31'	346.65'	349.66'	345.92'	344.42'

SCALE 0 15' 30' | 0 1.5" 3"

COMMONWEALTH OF VIRGINIA
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PROFESSIONAL ENGINEER

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ROADWAY ENGINEER

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

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	17(6)

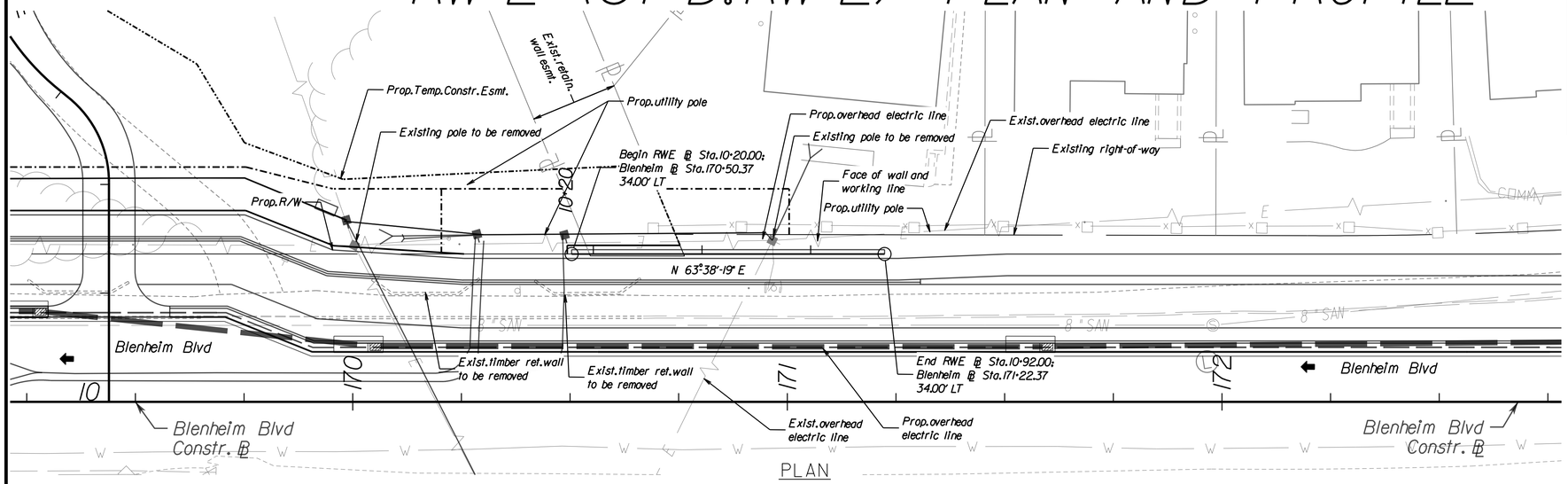
FINAL PLANS

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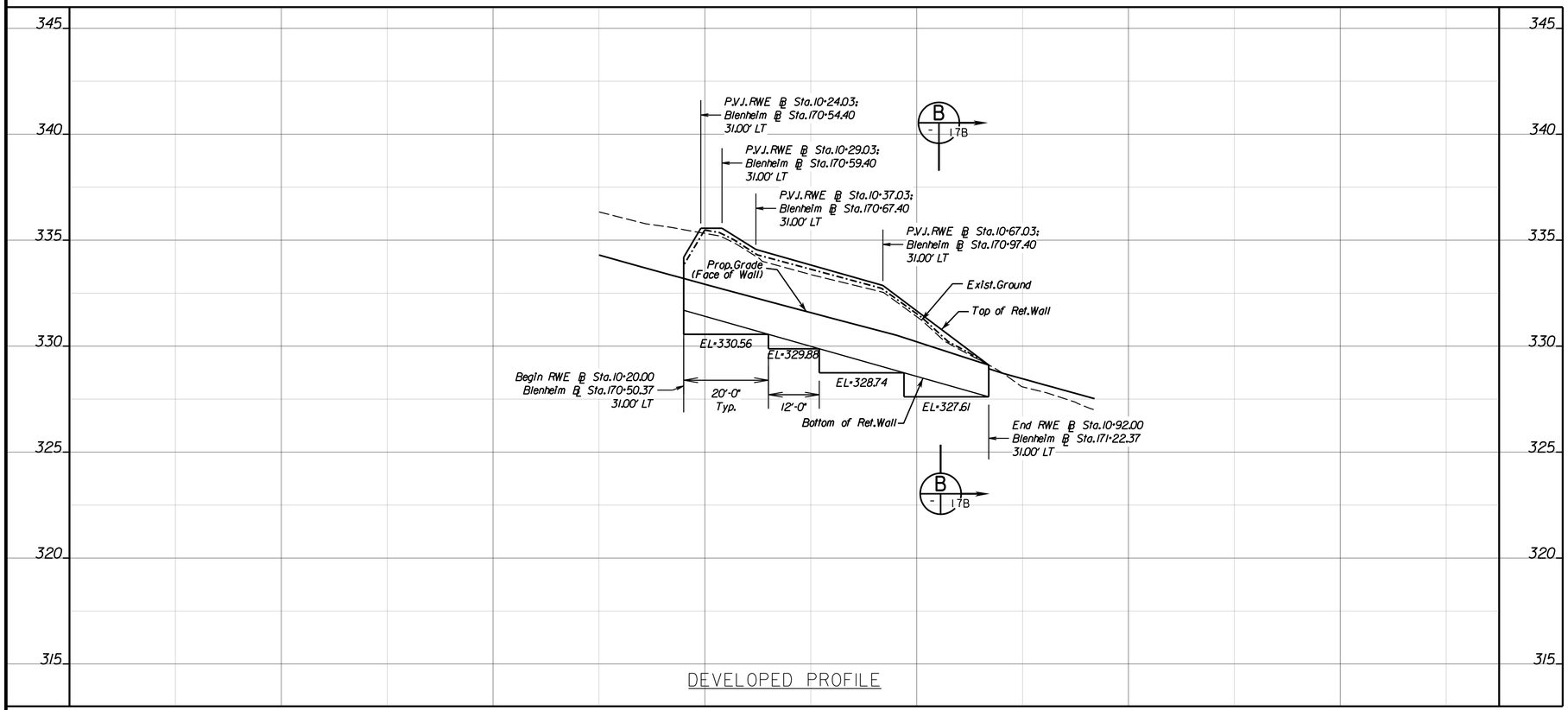
4/24/2025

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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

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

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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'	331.69'
170+54.40'	10+24.03'	335.56'	335.34'	332.97'	331.46'
170+59.40'	10+29.03'	335.56'	335.16'	332.70'	331.18'
170+67.40'	10+37.03'	334.56'	334.24'	332.27'	330.73'
170+97.40'	10+67.03'	332.86'	332.54'	330.68'	329.02'
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)

4/24/2025

FINAL PLANS

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Roadway Lighting Index of Sheets

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

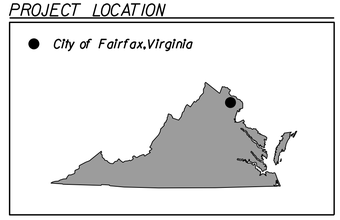
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Roadway Lighting Plan Overall Legend

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



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

4/22/2025

FINAL PLANS

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Roadway Lighting Plan General Notes

COMMONWEALTH OF VIRGINIA
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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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 removed 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 Composolite 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.

MISCELLANOUS 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.

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

4/22/2025

FINAL PLANS

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

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 Design Criteria and Statistical Calculations

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

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

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

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

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

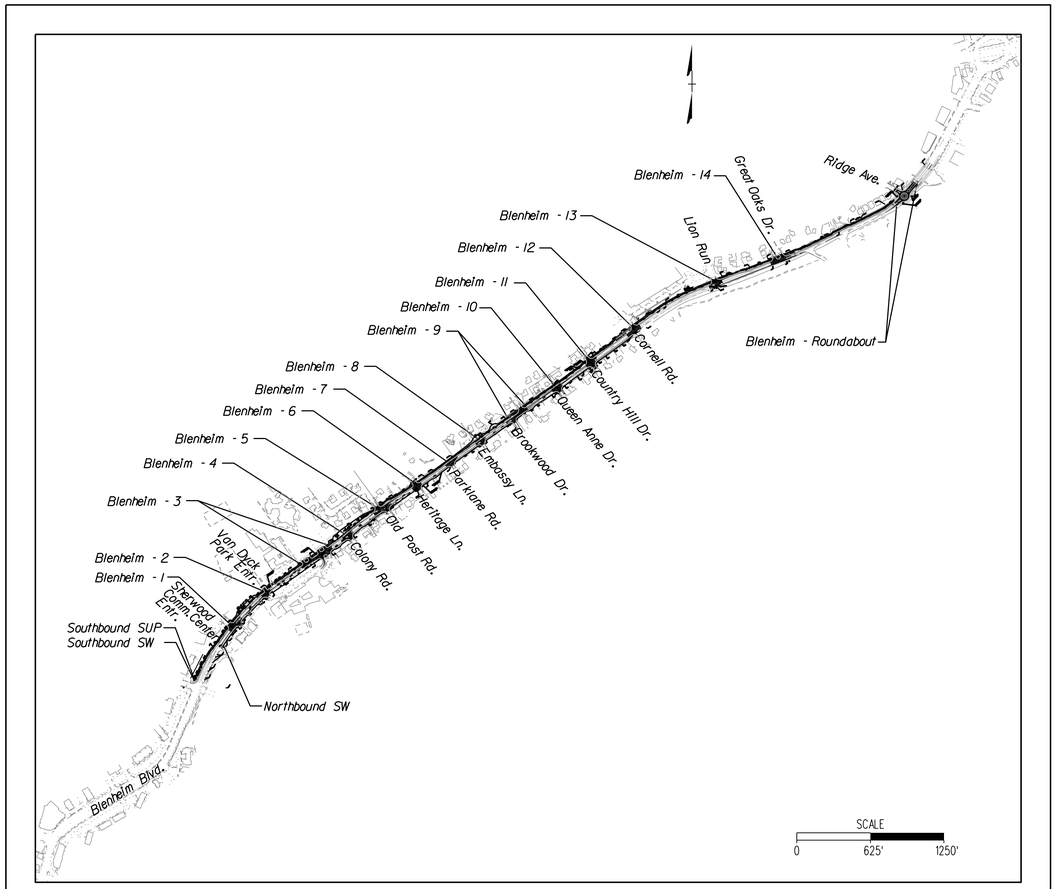
Photometric Calculation Results - Pedestrian Illuminance
(Recommended values from RP-8-18 Table 16-2, measured in Fc)

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



FINAL PLANS

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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

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

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

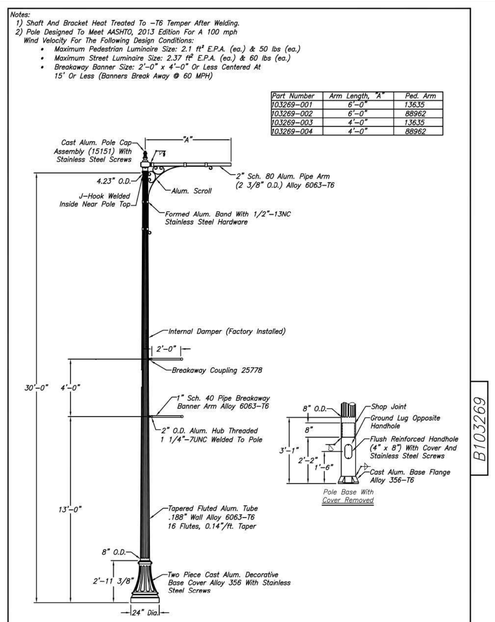
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1B)

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

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

hapco
Abingdon, Va.

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

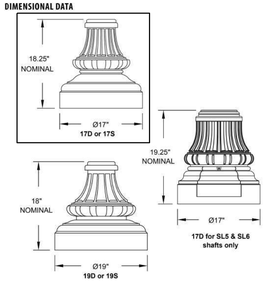
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CUSTOMER	Dominion Power
SCALE	.32
DATE	01/23/2019
BY	TNB
CHK'D	
DWG. NO.	B103269

Std. Combination Pole

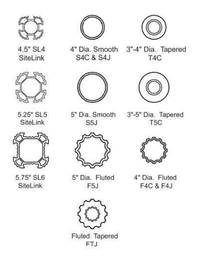
WDA
Wadsworth Aluminum Pole

HOLOPHANE

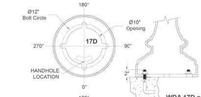
DIMENSIONAL DATA



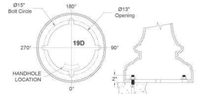
Shaft Style



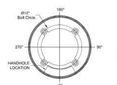
ANCHORAGE GUIDE



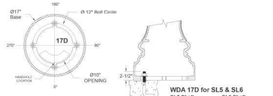
WDA 17D or 17S
Ø 3/4" Hot Dip Galvanized L-type Anchor Bolts (4 per Post)



WDA 19D or 19S
Ø 3/4" Hot Dip Galvanized L-type Anchor Bolts (4 per Post)



17S
(17" Base, Square Pattern Bolt Circle)



WDA 17D for SL5 & SL6
SL5 Shaft: Ø 3/4" Hot Dip Galvanized L-type Anchor Bolts (4 per Post)
SL6 Shaft: Ø 1" Hot Dip Galvanized L-type Anchor Bolts (4 per Post)

AcuityBrands. | Holophane | One Lithonia Way, Conyers, GA 30012 | Phone: 866-HOLOPHANE | www.holophane.com | techsupportint@acuitybrands.com
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4/22/2025

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

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)

Shared Roadway/Combination Lighting Pole Specifications

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

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

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 (Levelling 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 cowl.
- 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 (RALxxxxSOCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

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

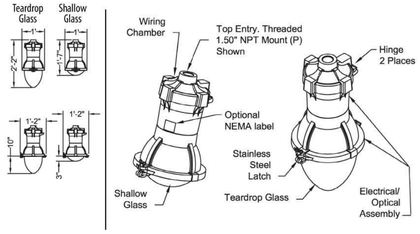
BUY AMERICAN ACT
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buyamerican for additional information.

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.

BAA

DIMENSIONAL DATA



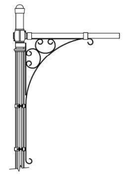
Maximum Weight - 49 lbs
Maximum Effective Projected Area - ESPL2 1.43 ft², ESPL2 SS 1.64 ft², ESPL2 DS 1.8 ft²

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

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 (RALxxxxSOCR) 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.

4/22/2025

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

FINAL PLANS

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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)

Combination Lighting Pole Specifications

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

Rinker Design Assoc. P.C.
Manassas, Virginia
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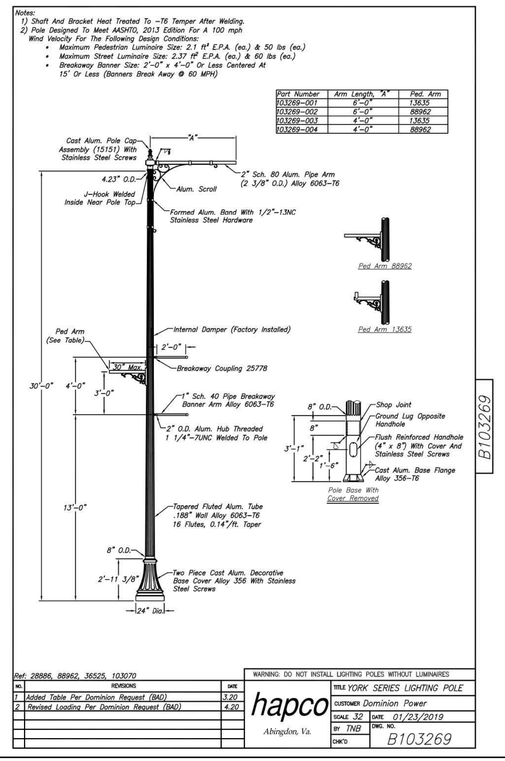
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(1D)

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
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103269–002	6'–0"	88962
103269–003	4'–0"	13635
103269–004	4'–0"	88962



B103269

Ref: 28886, 88952, 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.

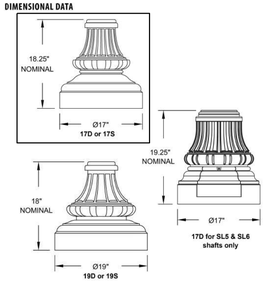
TITLE	YORK SERIES LIGHTING POLE
CUSTOMER	Dominion Power
SCALE	.32
DATE	01/23/2019
BY	TNB
DWG. NO.	B103269
CHK'D	

Std. Combination Pole

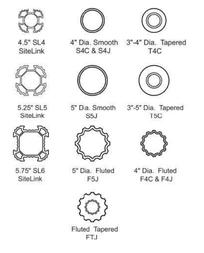
WDA
Wadsworth Aluminum Pole

HOLOPHANE

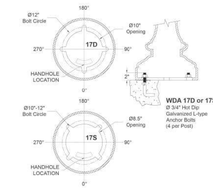
DIMENSIONAL DATA

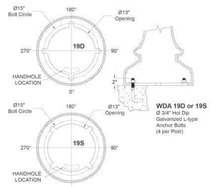


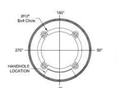
Shaft Style



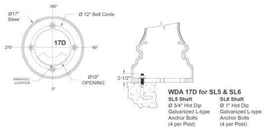
ANCHORAGE GUIDE







17S
(17" Base, Square Pattern Bolt Circle)



4/22/2025

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

FINAL PLANS

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

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

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

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

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

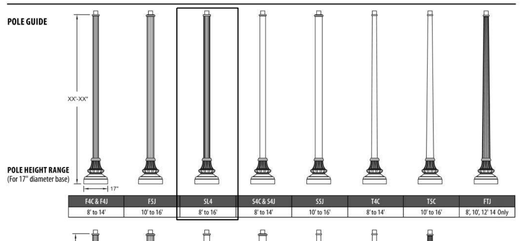
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Std. Decorative Pole

WDA
Wadsworth Aluminum Pole

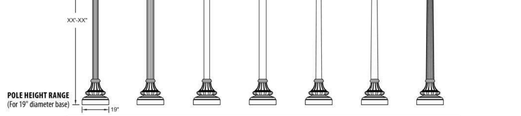
HOLOPHANE

POLE GUIDE



14C & 14J	15J	SL4	54C & 54J	55J	74C	75C	77J
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

POLE HEIGHT RANGE
(For 19" diameter base)



F4C & F4J	F5J	54C & 54J	55J	T4C	T5C	F7J
8' to 14'	10' to 16'	8' to 14'	10' to 16'	8' to 14'	10' to 16'	8', 10', 12' 14' Only

POLE HEIGHT RANGE
(For 17" diameter base SL5 & SL6 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 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 (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 (P07) or externally (P07E) mounted in place of the finial
- DTL DIN dedicated bracket with external mounted antenna - DINBRA

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

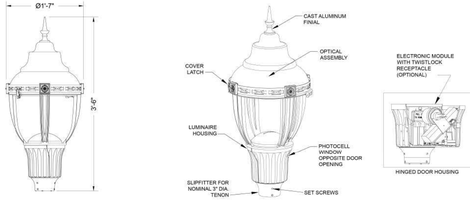
Certification and Standards
- Luminaire shall be UL 1598 - Wet Location Safety Listing
- Suitable for operation in an ambient temperature -40°C (40°F) to 40°C (104°F) per UL certification for performance packages P05 thru P100 Type 2, 3 & 5 no glass, P05 thru P50 Type 2, 3, 4 & 5 clear glass and P05 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 4S no glass, P100 Type 2, 2, 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 applications.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

DIMENSIONAL DATA



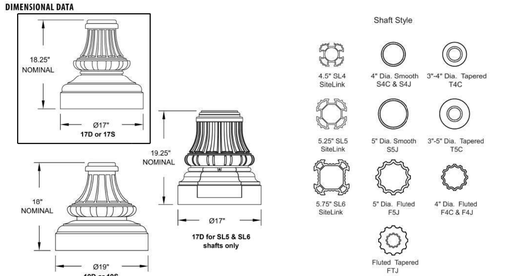
Maximum Weight - 53 lbs
Maximum Effective Projected Area - 1.72 sq. ft.

Std. Decorative Pole

WDA
Wadsworth Aluminum Pole

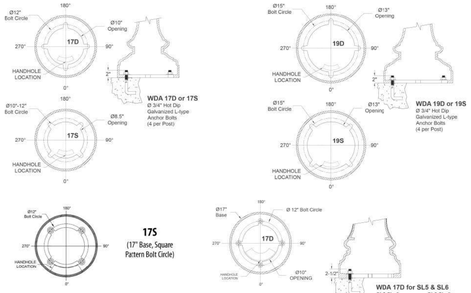
HOLOPHANE

DIMENSIONAL DATA



Shaft Style

ANCHORAGE GUIDE



4/22/2025

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

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)

Roadway Lighting Panelboard Details

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

Rinker Design Assoc. P.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)

4/22/2025

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)

Roadway Lighting Panelboard Details

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

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

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

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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.

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

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

4/22/2025

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)

Roadway Lighting Typical Details

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

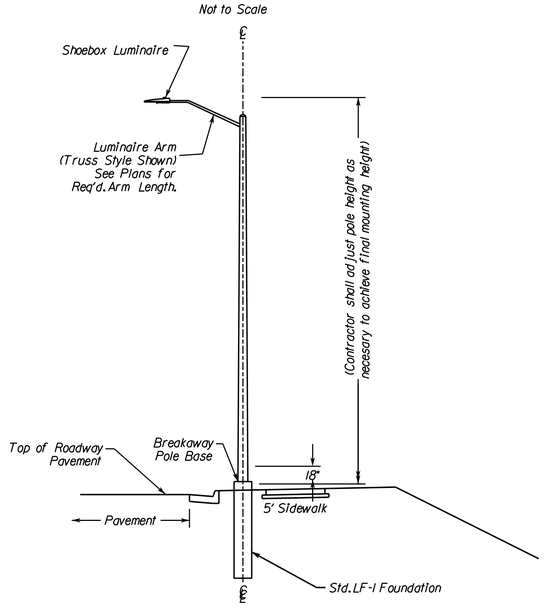
Rinker Design Assoc. P.C.
Manassas, Virginia
ROADWAY ENGINEER

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

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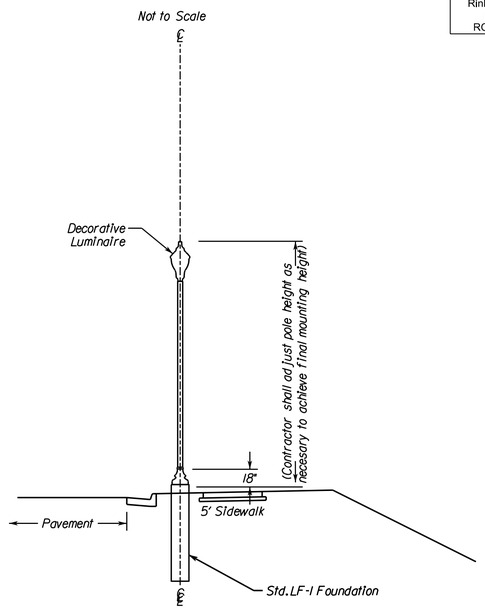
Std. Roadway Pole

Not to Scale



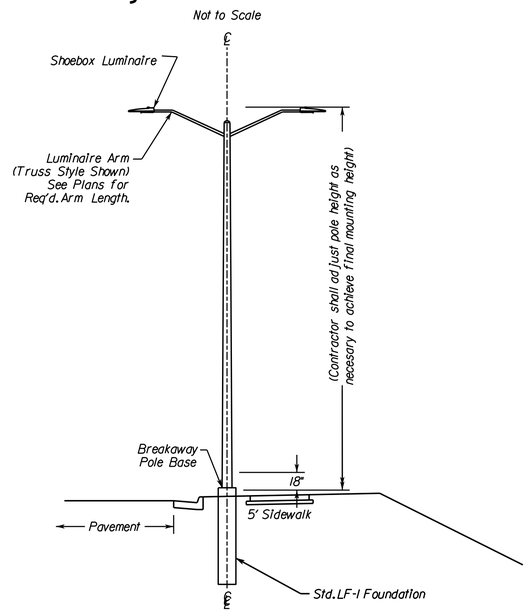
Std. Decorative Pole

Not to Scale



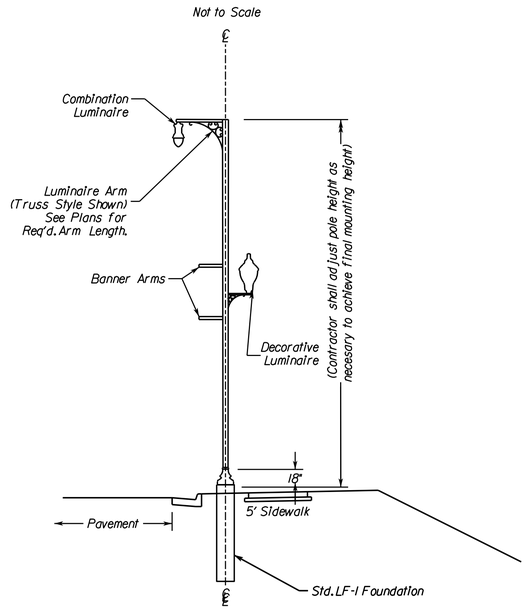
Std. Roadway Pole - Dual Luminaire

Not to Scale



Std. Combination Pole

Not to Scale



PROJECT	SHEET NO.
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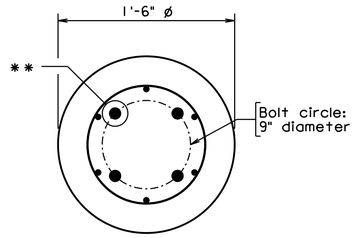
4/22/2025

FINAL PLANS

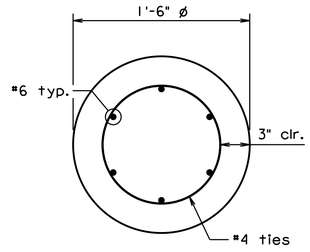
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DESIGN BY Mark A. Gunn, P.E., (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark, (800) 542-2990 (2015)

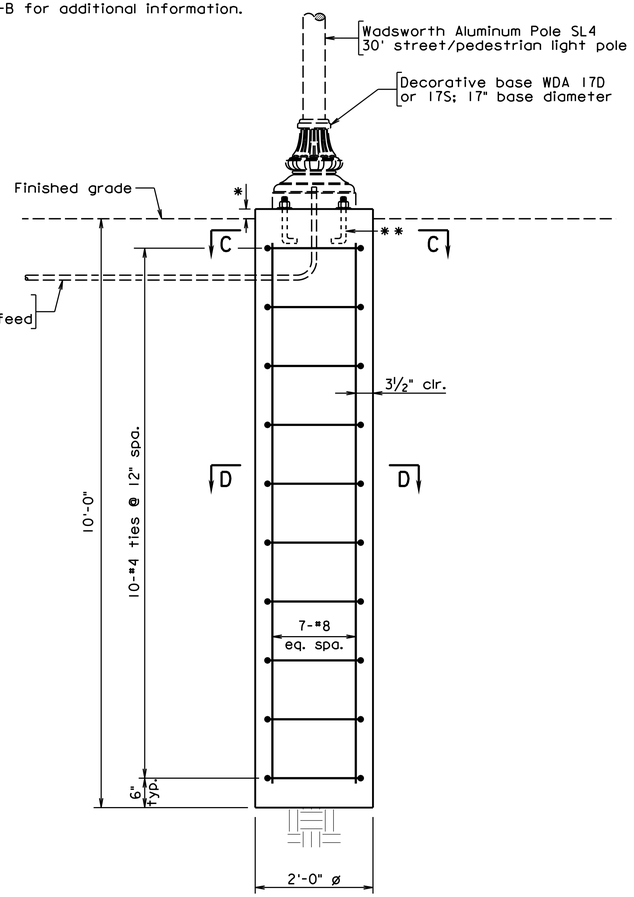
FOUNDATION DETAILS FOR PEDESTRIAN/STREET LIGHT POLES



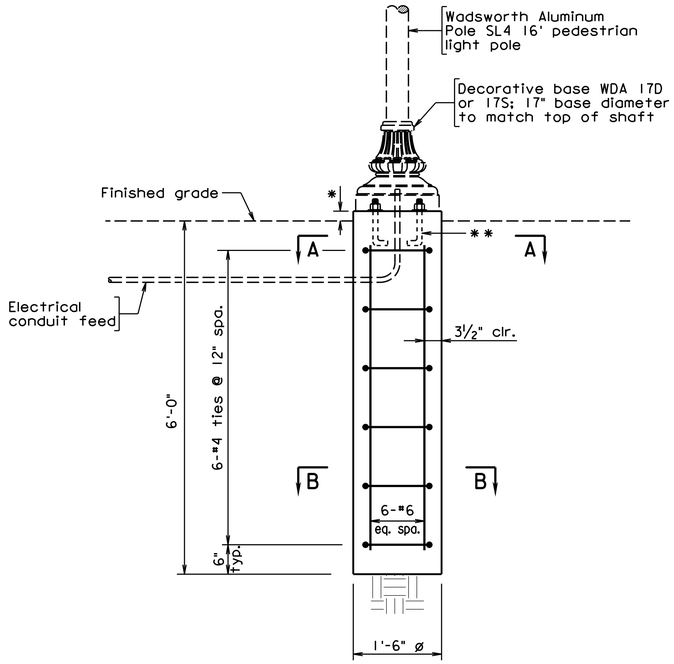
SECTION A-A
Scale: 1½" = 1'-0"
See SECTION B-B for additional information.



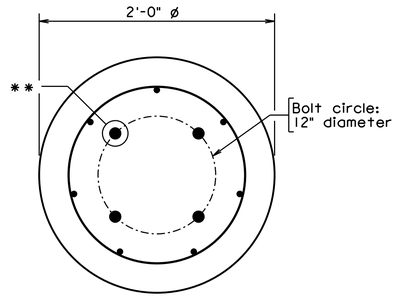
SECTION B-B
Scale: 1½" = 1'-0"



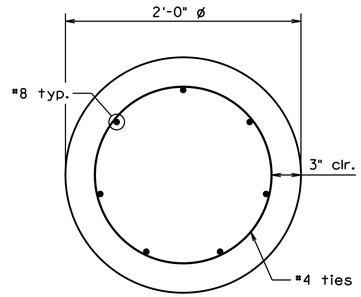
FOUNDATION "A"
30' STREET/PEDESTRIAN LIGHT POLE
DRILLED SHAFT ELEVATION
Grounding equipment not shown for clarity.



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



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



SECTION D-D
Scale: 1½" = 1'-0"

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..

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

COMMONWEALTH OF VIRGINIA
MARIAH S. PITTS
Lic. No. 0402 063017
PROFESSIONAL ENGINEER

RINKER DESIGN ASSOCIATES
MANASSAS, VA.
STRUCTURAL 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(1J)

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

4/22/2025

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)

Roadway Lighting Inventory

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

Rinker Design Assoc. P.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+56.49	34.87' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
2	18(3)	101+91.18	34.30' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
3	18(3)	102+61.99	31.76' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
4	18(3)	103+20.35	26.58' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
5	18(3)	103+88.92	25.76' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
6	18(3)	104+57.30	20.39' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
7	18(4)	105+31.24	16.96' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
8	18(4)	105+89.50	15.70' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
9	18(4)	106+50.85	16.35' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
10	18(4)	107+37.88	17.76' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
11	18(4)	108+10.44	15.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
12	18(4)	108+10.44	44.56' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
13	18(4)	108+82.58	15.55' 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+46.06	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+19.05	16.20' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
18	18(4)	110+84.67	16.45' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
19	18(5)	111+63.71	17.24' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
20	18(5)	112+16.12	16.72' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
21	18(5)	112+84.80	16.86' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
22	18(5)	113+51.26	16.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
23	18(5)	114+16.12	16.24' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
24	18(5)	114+82.40	16.20' 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+93.00	17.06' 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+03.03	16.30' 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	16.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
31	18(5)	118+75.03	54.00' 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+49.99	52.14' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
34	18(6)	119+79.11	15.89' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
35	18(6)	120+14.31	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	17.90' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
37	18(6)	120+96.17	23.47' 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+01.36	26.15' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
43	18(6)	124+85.67	19.85' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
44	18(6)	125+39.69	27.67' 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+89.95	15.74' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
48	18(7)	128+71.83	15.81' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1

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)

Roadway Lighting Inventory

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

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

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

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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+47.70	16.08' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
50	18(7)	130+16.81	16.83' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
51	18(7)	130+87.04	15.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
52	18(7)	131+56.03	16.97' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
53	18(7)	132+27.07	16.32' 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)	132+95.84	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+96.05	63.58' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
59	18(8)	135+07.88	16.34' 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	18.71' 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+68.62	22.44' 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+80.48	15.72' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
72	18(9)	144+41.06	23.51' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
73	18(9)	145+27.04	26.76' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
74	18(9)	145+80.81	26.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
75	18(9)	146+33.97	26.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
76	18(9)	147+25.03	26.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
77	18(11)	158+10.61	49.69' 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+95.04	30.24' 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+23.29	27.63' 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+13.36	27.02' 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+55.86	26.81' 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+52.24	39.17' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
93	18(11)	159+05.43	37.48' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
94	18(11)	159+56.82	37.19' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
95	18(11)	160+25.49	26.66' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
96	18(11)	160+90.40	26.71' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1

PROJECT	SHEET NO.
U000-151-R94	18(2(11))

4/22/2025

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Roadway Lighting Inventory

Luminaire Location Summary

Project: Blenheim Boulevard Multimodal Improvements

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97	18(11)	161+61.86	26.73' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
98	18(12)	163+24.05	28.18' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
99	18(12)	163+89.76	25.52' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
100	18(12)	164+58.24	23.01' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
101	18(12)	165+25.40	18.08' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
102	18(12)	166+11.20	17.27' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
103	18(12)	166+82.09	15.67' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
104	18(12)	167+52.45	16.47' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
105	18(12)	168+12.38	15.21' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
106	18(12)	168+87.11	22.76' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
107	18(13)	169+74.58	19.87' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
108	18(13)	170+40.26	13.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
109	18(13)	171+22.84	12.76' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
110	18(13)	171+83.18	12.86' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
111	18(13)	172+54.36	13.25' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
112	18(13)	173+24.05	14.42' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
113	18(14)	174+64.09	39.95' LT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
114	18(14)	174+75.04	94.81' LT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
115	18(14)	176+27.38	2.23' 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+63.52	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+11.76	28.72' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
122	18(4)	109+88.07	32.00' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
123	18(4)	110+50.92	22.56' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
124	18(4)	111+50.36	20.19' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
125	18(5)	112+23.95	22.06' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
126	18(5)	114+28.34	21.97' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
127	18(5)	113+47.27	20.91' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
128	18(5)	114+28.34	18.90' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
129	18(5)	114+87.33	18.46' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
130	18(5)	115+47.03	20.11' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
131	18(5)	116+25.58	24.10' 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+48.49	38.28' 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+98.23	28.32' 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+94.25	27.75' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
139	18(6)	120+83.04	21.06' 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+89.44	19.36' 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+30.35	48.35' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
144	18(6)	123+67.24	36.98' 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

Rinker Design Assoc. P.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))

4/22/2025

FINAL PLANS

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

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

Rinker Design Assoc. P.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	16.06' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
146	18(6)	125+10.25	16.08' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
147	18(6)	125+84.90	15.75' 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+60.54	25.79' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
151	18(7)	128+22.42	20.95' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
152	18(7)	129+03.04	25.65' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
153	18(7)	129+75.18	16.28' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
154	18(7)	130+69.82	15.71' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
155	18(7)	131+46.46	15.71' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
156	18(7)	132+23.31	15.97' 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+78.63	16.85' 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	26.48' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
163	18(8)	137+72.90	22.62' 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	16.11' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
166	18(8)	139+76.04	16.00' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
167	18(8)	140+47.27	16.90' 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+46.41	48.37' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
170	18(9)	141+80.90	15.77' 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+92.37	25.02' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
174	18(9)	144+45.34	32.41' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
175	18(9)	145+11.16	48.66' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
176	18(9)	145+36.14	27.82' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
177	18(9)	146+15.09	26.98' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
178	18(9)	147+03.00	26.67' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
179	18(9)	147+89.87	26.08' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
180	18(10)	148+68.66	24.38' RT	Blenheim Blvd	Decorative	Washington Series	0	16	N/A	N/A	N/A	No	LF-1
181	18(12)	162+46.19	27.21' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
182	18(12)	163+87.02	31.71' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
183	18(14)	173+92.81	18.96' LT	Blenheim Blvd	Combination	Esplanade Teardrop	6'	30'	Washington Series	2'	16	Yes	LF-1
184	18(14)	174+61.88	40.44' RT	Blenheim Blvd	Roadway	Shoebox	6'	32'	N/A	N/A	N/A	No	LF-1
185	18(14)	175+54.37	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

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)

Roadway Junction Box Inventory

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

Rinker Design Assoc. P.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(03)	101+61.85	34.85	LT	Blenheim Blvd
302	18(03)	101+98.78	34.41	LT	Blenheim Blvd
303	18(03)	102+67.19	32.43	LT	Blenheim Blvd
304	18(03)	103+28.75	25.8	LT	Blenheim Blvd
305	18(03)	103+97.14	26.49	LT	Blenheim Blvd
306	18(03)	104+63.94	20.21	LT	Blenheim Blvd
401	18(04)	105+26.37	16.73	LT	Blenheim Blvd
402	18(04)	105+96.78	16.00	LT	Blenheim Blvd
403	18(04)	106+55.69	17.73	LT	Blenheim Blvd
404	18(04)	107+32.09	17.54	LT	Blenheim Blvd
405	18(04)	108+16.37	16.44	LT	Blenheim Blvd
406	18(04)	108+88.21	16.26	LT	Blenheim Blvd
407	18(04)	110+28.69	16.34	LT	Blenheim Blvd
408	18(04)	110+87.14	16.38	LT	Blenheim Blvd
409	not used	not used	not used	not used	not used
410	18(04)	108+32.22	43.94	LT	Blenheim Blvd
411	18(04)	108+63.96	40.31	LT	Blenheim Blvd
412	18(04)	108+80.49	37.79	LT	Blenheim Blvd
413	18(04)	108+89.44	37.21	LT	Blenheim Blvd
414	18(04)	109+42.62	30.86	LT	Blenheim Blvd
415	18(04)	109+86.74	36.97	LT	Blenheim Blvd
416	18(04)	105+10.32	41.02	RT	Blenheim Blvd
417	18(04)	105+60.04	40.11	RT	Blenheim Blvd
418	18(04)	106+34.40	41.72	RT	Blenheim Blvd
419	18(04)	107+24.75	41.16	RT	Blenheim Blvd
420	18(04)	107+66.65	41.41	RT	Blenheim Blvd
421	18(04)	108+15.63	29.00	RT	Blenheim Blvd
422	18(04)	108+53.72	29.65	RT	Blenheim Blvd
423	18(04)	109+06.14	28.83	RT	Blenheim Blvd
424	18(04)	109+98.25	31.36	RT	Blenheim Blvd
425	18(04)	110+25.43	29.76	RT	Blenheim Blvd
426	18(04)	110+56.15	21.73	RT	Blenheim Blvd
427	18(04)	111+29.94	16.02	RT	Blenheim Blvd
428	18(04)	111+49.27	23.51	RT	Blenheim Blvd
501	18(05)	111+58.55	16.71	LT	Blenheim Blvd
502	18(05)	112+09.51	16.83	LT	Blenheim Blvd
503	18(05)	112+79.18	18.44	LT	Blenheim Blvd
504	18(05)	113+45.76	18.75	LT	Blenheim Blvd
505	18(05)	114+11.42	18.92	LT	Blenheim Blvd
506	not used	not used	not used	not used	not used
507	18(05)	114+86.92	17.61	LT	Blenheim Blvd
508	not used	not used	not used	not used	not used

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align. Bl.
509	18(05)	115+44.15	17.19	LT	Blenheim Blvd
510	18(05)	115+89.05	19.09	LT	Blenheim Blvd
511	18(05)	116+44.53	15.93	LT	Blenheim Blvd
512	18(05)	116+91.63	18.28	LT	Blenheim Blvd
513	not used	not used	not used	not used	not used
514	18(05)	117+57.86	16.42	LT	Blenheim Blvd
515	18(05)	118+28.29	18.21	LT	Blenheim Blvd
516	18(05)	118+59.83	16.79	LT	Blenheim Blvd
517	18(05)	118+62.49	50.85	LT	Blenheim Blvd
518	18(05)	112+40.16	24.72	RT	Blenheim Blvd
519	18(05)	112+75.45	24.28	RT	Blenheim Blvd
520	18(05)	113+41.39	24.08	RT	Blenheim Blvd
521	18(05)	114+27.37	21.9	RT	Blenheim Blvd
522	18(05)	114+99.56	21.72	RT	Blenheim Blvd
523	18(05)	115+53.52	19.75	RT	Blenheim Blvd
524	18(05)	116+31.64	24.1	RT	Blenheim Blvd
525	18(05)	116+86.32	27.33	RT	Blenheim Blvd
526	not used	not used	not used	not used	not used
527	18(05)	117+60.79	28.12	RT	Blenheim Blvd
528	18(05)	118+10.59	37.06	RT	Blenheim Blvd
529	not used	not used	not used	not used	not used
530	18(05)	118+98.66	26.16	RT	Blenheim Blvd
601	18(06)	119+03.62	17.48	LT	Blenheim Blvd
602	18(06)	119+87.00	17.13	LT	Blenheim Blvd
603	18(06)	120+41.95	19.54	LT	Blenheim Blvd
604	18(06)	120+91.59	24.63	LT	Blenheim Blvd
605	18(06)	121+65.63	26.51	LT	Blenheim Blvd
606	18(06)	122+42.44	26.93	LT	Blenheim Blvd
607	18(06)	123+33.10	27.32	LT	Blenheim Blvd
608	18(06)	124+09.74	29.21	LT	Blenheim Blvd
609	18(06)	124+79.67	21.24	LT	Blenheim Blvd
610	18(06)	125+44.33	26.58	LT	Blenheim Blvd
611	18(06)	119+69.86	47.85	LT	Blenheim Blvd
612	not used	not used	not used	not used	not used
613	18(06)	119+87.11	39.25	LT	Blenheim Blvd
614	18(06)	120+03.85	37.26	LT	Blenheim Blvd
615	18(06)	120+23.44	49.50	LT	Blenheim Blvd
616	18(06)	121+30.79	44.07	LT	Blenheim Blvd
617	18(06)	121+60.21	41.45	LT	Blenheim Blvd
618	18(06)	122+60.07	48.95	LT	Blenheim Blvd
619	18(06)	123+43.64	48.84	LT	Blenheim Blvd
620	not used	not used	not used	not used	not used

Junction Box Location Summary

Project: Blenheim Boulevard Multimodal Improvements

JB No.	Sheet No.	JB Station	JB Offset	Location	Align. Bl.
621	18(06)	119+33.05	45.29	RT	Blenheim Blvd
622	18(06)	119+84.69	32.54	RT	Blenheim Blvd
623	18(06)	120+89.96	20.84	RT	Blenheim Blvd
624	not used	not used	not used	not used	not used
625	18(06)	121+50.24	38.98	RT	Blenheim Blvd
626	18(06)	121+79.48	21.59	RT	Blenheim Blvd
627	18(06)	122+95.20	15.67	RT	Blenheim Blvd
628	18(06)	123+30.43	43.68	RT	Blenheim Blvd
629	18(06)	123+66.28	41.22	RT	Blenheim Blvd
630	18(06)	124+41.82	20.78	RT	Blenheim Blvd
631	18(06)	125+12.21	20.06	RT	Blenheim Blvd
632	18(06)	125+83.20	20.81	RT	Blenheim Blvd
701	not used	not used	not used	not used	not used
702	not used	not used	not used	not used	not used
703	18(07)	127+05.67	16.36	LT	Blenheim Blvd
704	18(07)	127+82.61	17.09	LT	Blenheim Blvd
705	18(07)	128+65.73	17.48	LT	Blenheim Blvd
706	18(07)	129+41.10	17.09	LT	Blenheim Blvd
707	18(07)	130+10.03	16.00	LT	Blenheim Blvd
708	18(07)	130+91.96	16.04	LT	Blenheim Blvd
709	18(07)	131+50.28	15.69	LT	Blenheim Blvd
710	18(07)	132+20.97	17.77	LT	Blenheim Blvd
711	18(07)	133+02.44	17.38	LT	Blenheim Blvd
712	18(07)	133+60.47	18.48	LT	Blenheim Blvd
713	18(07)	126+14.47	33.65	LT	Blenheim Blvd
714	18(07)	133+29.37	68.96	LT	Blenheim Blvd
715	18(07)	133+55.76	36.38	LT	Blenheim Blvd
716	18(07)	133+72.86	35.99	LT	Blenheim Blvd
717	18(07)	126+35.40	28.60	RT	Blenheim Blvd
718	18(07)	127+11.05	28.99	RT	Blenheim Blvd
719	not used	not used	not used	not used	not used
720	18(07)	127+55.34	26.25	RT	Blenheim Blvd
721	18(07)	128+27.96	22.79	RT	Blenheim Blvd
722	not used	not used	not used	not used	not used
723	not used	not used	not used	not used	not used
724	18(07)	128+98.48	17.25	RT	Blenheim Blvd
725	18(07)	129+88.01	26.07	RT	Blenheim Blvd
726	18(07)	130+46.07	30.68	RT	Blenheim Blvd
727	18(07)	131+51.59	16.48	RT	Blenheim Blvd
728	18(07)	132+27.89	16.51	RT	Blenheim Blvd
729	18(07)	132+94.14	17.03	RT	Blenheim Blvd
730	18(07)	133+73.73	17.39	RT	Blenheim Blvd

PROJECT	SHEET NO.
U000-151-R94	18(2(4))

4/22/2025

FINAL PLANS

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

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

Rinker Design Assoc. P.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	not used	not used	not used	not used	not used
802	18(08)	134+30.76	18.81	LT	Blenheim Blvd
803	18(08)	135+05.12	19.49	LT	Blenheim Blvd
804	18(08)	135+79.20	19.53	LT	Blenheim Blvd
805	18(08)	136+46.89	19.08	LT	Blenheim Blvd
806	18(08)	137+12.74	14.46	LT	Blenheim Blvd
807	18(08)	137+29.71	18.51	LT	Blenheim Blvd
808	18(08)	138+07.35	19.06	LT	Blenheim Blvd
809	18(08)	138+70.30	19.39	LT	Blenheim Blvd
810	18(08)	139+45.11	19.70	LT	Blenheim Blvd
811	not used	not used	not used	not used	not used
812	18(08)	140+14.91	24.26	LT	Blenheim Blvd
813	18(08)	134+94.14	60.33	LT	Blenheim Blvd
814	18(08)	133+83.73	26.08	RT	Blenheim Blvd
815	18(08)	134+63.18	17.16	RT	Blenheim Blvd
816	18(08)	135+49.35	17.75	RT	Blenheim Blvd
817	18(08)	136+21.20	27.28	RT	Blenheim Blvd
818	not used	not used	not used	not used	not used
819	18(08)	136+83.98	27.94	RT	Blenheim Blvd
820	not used	not used	not used	not used	not used
821	18(08)	137+78.30	23.5	RT	Blenheim Blvd
822	18(08)	138+31.73	25.67	RT	Blenheim Blvd
823	not used	not used	not used	not used	not used
824	18(08)	139+00.99	15.80	RT	Blenheim Blvd
825	18(08)	139+83.66	17.61	RT	Blenheim Blvd
826	18(08)	140+56.16	17.05	RT	Blenheim Blvd
901	18(09)	140+85.78	26.17	LT	Blenheim Blvd
902	not used	not used	not used	not used	not used
903	not used	not used	not used	not used	not used
904	18(09)	141+64.08	24.94	LT	Blenheim Blvd
905	18(09)	142+34.85	17.59	LT	Blenheim Blvd
906	18(09)	143+04.84	17.79	LT	Blenheim Blvd
907	18(09)	143+74.96	16.14	LT	Blenheim Blvd
908	18(09)	144+45.37	23.57	LT	Blenheim Blvd
909	18(09)	144+95.88	64.29	LT	Blenheim Blvd
910	18(09)	144+98.73	47.42	LT	Blenheim Blvd
911	18(09)	145+22.56	26.63	LT	Blenheim Blvd
912	18(09)	145+76.34	26.67	LT	Blenheim Blvd
913	18(09)	146+28.73	26.65	LT	Blenheim Blvd
914	18(09)	147+18.85	25.95	LT	Blenheim Blvd
915	18(09)	147+93.30	28.20	LT	Blenheim Blvd
916	18(09)	141+10.70	43.85	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(09)	141+45.99	43.10	RT	Blenheim Blvd
918	18(09)	141+90.48	15.99	RT	Blenheim Blvd
919	18(09)	142+48.36	16.56	RT	Blenheim Blvd
920	18(09)	143+18.89	25.29	RT	Blenheim Blvd
921	18(09)	143+87.54	25.56	RT	Blenheim Blvd
922	18(09)	144+43.45	37.11	RT	Blenheim Blvd
923	18(09)	144+57.48	50.34	RT	Blenheim Blvd
924	18(09)	145+02.60	48.95	RT	Blenheim Blvd
925	18(09)	145+40.57	30.57	RT	Blenheim Blvd
926	18(09)	146+18.79	30.91	RT	Blenheim Blvd
927	18(09)	147+07.30	31.26	RT	Blenheim Blvd
928	18(09)	147+91.68	30.58	RT	Blenheim Blvd
1001	18(10)	148+41.13	26.42	LT	Blenheim Blvd
1002	18(10)	149+10.97	35.36	LT	Blenheim Blvd
1003	not used	not used	not used	not used	not used
1004	18(10)	149+91.08	31.07	LT	Blenheim Blvd
1005	18(10)	150+67.63	27.00	LT	Blenheim Blvd
1006	18(10)	151+62.74	27.50	LT	Blenheim Blvd
1007	18(10)	152+18.4	27.29	LT	Blenheim Blvd
1008	18(10)	152+83.11	27.47	LT	Blenheim Blvd
1009	18(10)	153+44.08	28.74	LT	Blenheim Blvd
1010	18(10)	154+04.96	27.54	LT	Blenheim Blvd
1011	18(10)	154+80.07	29.83	LT	Blenheim Blvd
1012	18(10)	148+64.44	24.66	RT	Blenheim Blvd
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+98.84	31.25	LT	Blenheim Blvd
1104	18(11)	157+94.81	37.71	LT	Blenheim Blvd
1105	18(11)	158+15.95	49.89	LT	Blenheim Blvd
1106	18(11)	158+41.21	38.43	LT	Blenheim Blvd
1107	18(11)	158+99.86	37.76	LT	Blenheim Blvd
1108	18(11)	159+46.75	37.84	LT	Blenheim Blvd
1109	18(11)	160+20.62	27.22	LT	Blenheim Blvd
1110	18(11)	160+85.41	26.75	LT	Blenheim Blvd
1111	18(11)	161+56.51	26.41	LT	Blenheim Blvd
1112	18(11)	156+96.79	21.77	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+87.15	26.79	RT	Blenheim Blvd
1201	18(12)	162+44.08	28.57	LT	Blenheim Blvd
1202	not used	not used	not used	not used	not used
1203	18(12)	163+27.01	29.76	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)	163+85.69	26.74	LT	Blenheim Blvd
1205	18(12)	164+52.72	23.78	LT	Blenheim Blvd
1206	18(12)	165+20.59	18.51	LT	Blenheim Blvd
1207	18(12)	166+02.07	16.94	LT	Blenheim Blvd
1208	18(12)	166+75.67	17.26	LT	Blenheim Blvd
1209	18(12)	167+46.24	17.46	LT	Blenheim Blvd
1210	18(12)	168+06.39	15.45	LT	Blenheim Blvd
1211	not used	not used	not used	not used	not used
1212	18(12)	168+81.89	23.41	LT	Blenheim Blvd
1213	18(12)	162+45.97	23.17	RT	Blenheim Blvd
1214	18(12)	163+81.34	31.03	RT	Blenheim Blvd
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+51.60	44.55	LT	Blenheim Blvd
1302	18(13)	170+67.58	44.61	LT	Blenheim Blvd
1303	18(13)	169+69.12	23.86	LT	Blenheim Blvd
1304	18(13)	170+34.27	15.91	LT	Blenheim Blvd
1305	18(13)	171+17.71	15.46	LT	Blenheim Blvd
1306	18(13)	171+76.93	15.65	LT	Blenheim Blvd
1307	18(13)	172+46.75	15.59	LT	Blenheim Blvd
1308	18(13)	173+18.04	16.70	LT	Blenheim Blvd
1401	18(14)	173+89.16	20.70	LT	Blenheim Blvd
1402	18(14)	174+67.85	41.84	LT	Blenheim Blvd
1403	18(14)	174+76.01	92.22	LT	Blenheim Blvd
1404	18(14)	175+50.92	50.93	RT	Blenheim Blvd
1405	18(14)	176+24.70	0.78	RT	Blenheim Blvd
1406	18(14)	174+66.41	42.16	RT	Blenheim Blvd

PROJECT	SHEET NO.
U000-151-R94	18(2(5))

4/22/2025

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)

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

Rinker Design Assoc. P.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

Pole 02, St'd. Decorative Pole Req'd. Sta. 101+91.18, (Breakaway) 34.30' LT Blenheim Blvd. Bl.
Pole 01, St'd. Decorative Pole Req'd. Sta. 101+56.49, (Breakaway) 34.87' LT Blenheim Blvd. Bl.
Pole 04, St'd. Decorative Pole Req'd. Sta. 103+20.35, (Breakaway) 26.58' LT Blenheim Blvd. Bl.
Pole 03, St'd. Decorative Pole Req'd. Sta. 102+61.99, (Breakaway) 31.76' LT Blenheim Blvd. Bl.
Pole 05, St'd. Decorative Pole Req'd. Sta. 103+88.92, (Breakaway) 25.76' LT Blenheim Blvd. Bl.
Pole 06, St'd. Decorative Pole Req'd. Sta. 104+57.30, (Breakaway) 20.39' LT Blenheim Blvd. Bl.

JB 301, JB 302, JB 303, JB 304, JB 305, JB 306

150W-O-16 CCWI-A-1
150W-O-16 CCWI-B-2
TO BE REMOVED EX. ELECT. HH

Remove Ex. VZN Anchor & Down Guy
Remove Ex Cox Down Guy
VZN TO ATTACH TO NEW DOM POLE
DOMINION TO REMOVE OVERHEAD GUY WIRE
Prop. DOM PushBrace
VZN TO INSTALL PUSH BRACE POLE
COX COMMUNICATION TO ATTACH TO NEW POLE
Lighting Fixture to Remain

Layton Hall Dr.
Farrcraft Dr.
Blenheim Blvd
Ex. Traffic Handhole
Ex. Electric Handhole
Ex. Conc. Walk
Ex. Conc. Apron
Ex. R/W
Ex. 10' Storm Drain Easement D.B. 11390 Pg. 830
Ex. 20' Storm Drain Easement D.B. 11390 Pg. 830
Gas Street Light
DOM #TM70 140N
Light Sensor
Match Line, Sta. 104+75.00 (Blenheim Blvd.) - See Sheet 18(4)

083 001 002 003 004

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	1Q - 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)

4/22/2025

FINAL PLANS

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Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
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PROFESSIONAL ENGINEER

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

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

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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)

Match Line Sta.104+75.00 (Blenheim Blvd.) - See Sheet 18(3)

Match Line, Sta.111+50.00 (Blenheim Blvd.) - See Sheet 18(5)

Sherwood Community Center Entr.

Van Dyck Park Entr.

Blenheim Blvd

Pole 09, St'd. Decorative Pole Req'd. Sta.106+50.85,(Breakaway) 16.35' LT Blenheim Blvd. Bl.

Pole 08, St'd. Decorative Pole Req'd. Sta.105+89.50,(Breakaway) 15.70' LT Blenheim Blvd. Bl.

Pole 07, St'd. Decorative Pole Req'd. Sta.105+31.24,(Breakaway) 16.96' LT Blenheim Blvd. Bl.

Pole 10, St'd. Combination Pole Req'd. Sta.107+37.88,(Breakaway) 17.76' LT Blenheim Blvd. Bl.

Pole 11, St'd. Decorative Pole Req'd. Sta.108+10.44,(Breakaway) 15.71' LT Blenheim Blvd. Bl.

Pole 12, St'd. Decorative Pole Req'd. Sta.108+10.44 44.56' LT Blenheim Blvd. Bl.

Proposed Control Center CCWI

Pole 13, St'd. DecorativePole Req'd. Sta.108+82.58,(Breakaway) 15.55' LT Blenheim Blvd. Bl.

Pole 14, St'd. Decorative Pole Req'd. Sta.108+94.38 36.59' LT Blenheim Blvd. Bl.

Pole 15, St'd. Decorative Pole Req'd. Sta.109+47.06 32.68' LT Blenheim Blvd. Bl.

Pole 16, St'd. Decorative Pole Req'd. Sta.109+91.92 37.69' LT Blenheim Blvd. Bl.

Pole 17, St'd. Decorative Pole Req'd. Sta.110+19.05,(Breakaway) 16.20' LT Blenheim Blvd. Bl.

Pole 18, St'd. Combination Pole Req'd. Sta.110+84.67,(Breakaway) 16.45' LT Blenheim Blvd. Bl.

Pole 116, St'd. Decorative Pole Req'd. Sta.105+05.82,(Breakaway) 38.22' RT Blenheim Blvd. Bl.

Pole 117, St'd. Decorative Pole Req'd. Sta.105+63.52,(Breakaway) 36.64' RT Blenheim Blvd. Bl.

Pole 118, St'd. Decorative Pole Req'd. Sta.106+36.83,(Breakaway) 37.25' RT Blenheim Blvd. Bl.

Pole 119, St'd. Decorative Pole Req'd. Sta.107+15.37,(Breakaway) 38.61' RT Blenheim Blvd. Bl.

Pole 120, St'd. Decorative Pole Req'd. Sta.108+23.31,(Breakaway) 28.08' RT Blenheim Blvd. Bl.

Pole 121, St'd. Decorative Pole Req'd. Sta.109+11.76,(Breakaway) 28.72' RT Blenheim Blvd. Bl.

Pole 122, St'd. Decorative Pole Req'd. Sta.109+88.07,(Breakaway) 32.00' RT Blenheim Blvd. Bl.

Pole 123, St'd. Combination Pole Req'd. Sta.110+50.92,(Breakaway) 22.56' RT Blenheim Blvd. Bl.

Pole 124, St'd. Decorative Pole Req'd. Sta.111+50.36,(Breakaway) 20.19' RT Blenheim Blvd. Bl.

JB 401 JB 402 JB 403 JB 404 JB 405 JB 406 JB 407 JB 408 JB 409 JB 410 JB 411 JB 412 JB 413 JB 414 JB 415 JB 416 JB 417 JB 418 JB 419 JB 420 JB 421 JB 422 JB 423 JB 424 JB 425 JB 426

150W-0-16 CCWI-A-1 | 150W-0-16 CCWI-B-2 | 150W-0-16 CCWI-B-4 | 150W-0-16 CCWI-A-3 | 150W-0-16 CCWI-A-5 | 150W-0-16 CCWI-B-6 | 150W-2-16 CCWI-B-2 | 150W-2-16 CCWI-B-4 | 150W-6-30 CCWI-B-2 | 150W-6-30 CCWI-B-4

Lighting Fixture to be Removed

Prop VZN OH Min 18' Clearance | Prop VZN OH Min 19' Clearance | Prop DOM 45ft Pole | Prop VZN Pole | Ex. Gravel Shoulder | Ex. R/W

VZN TO REATTACH EXISTING OH CABLE TO NEW POLES

VZN TO SET POLE W/38 AT DEPTH OF 6' REATTACH CABELS. ADDITIONAL DEPTH NEED TP AVOID GUYING

DOMINION TO REPLACE EXISTING DOWN GUY WITH SIDEWALK GUY | Prop Cox Sidewalk Guy | Prop VZN 25'deep Place pole and Sidewalk Guy

001 002 003 004 005 006 007 008 084

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

Survey Control Data Sheet	IF
Geometric Data Sheet	IG(4)
Horizontal Constr. Alignment Data	IG(1A) - IG(1F)
Erosion Controls Ph1 & Ph2	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)

4/22/2025

FINAL PLANS

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

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

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

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

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

Match Line. Sta.111+50.00 (Blenheim Blvd.) - See Sheet 18(4)

Match Line. Sta.119+00.00 (Blenheim Blvd.) - See Sheet 18(6)

Saint Leo the Great Catholic School

Saint Leo the Great Catholic Church

Daniels Run Elementary School

Blenheim Blvd

EX.15' CITY OF FAIRFAX WATER EASEMENT DB 9196 PG 246

Pole 19, St'd. Decorative Pole Req'd. Sta.111+63.71,(Breakaway) 17.24' LT Blenheim Blvd.Bl.

Pole 20, St'd. Decorative Pole Req'd. Sta.112+16.12,(Breakaway) 16.72' LT Blenheim Blvd.Bl.

Pole 21, St'd. Decorative Pole Req'd. Sta.112+84.80,(Breakaway) 16.86' LT Blenheim Blvd.Bl.

Pole 22, St'd. Decorative Pole Req'd. Sta.113+51.26,(Breakaway) 16.71' LT Blenheim Blvd.Bl.

Pole 23, St'd. Decorative Pole Req'd. Sta.114+16.12,(Breakaway) 16.24' LT Blenheim Blvd.Bl.

Pole 24, St'd. Decorative Pole Req'd. Sta.114+82.40,(Breakaway) 16.20' LT Blenheim Blvd.Bl.

Pole 25, St'd. Combination Pole Req'd. Sta.115+46.66,(Breakaway) 16.83' LT Blenheim Blvd.Bl.

Pole 26, St'd. Decorative Pole Req'd. Sta.115+93.00,(Breakaway) 17.06' LT Blenheim Blvd.Bl.

Pole 27, St'd. Combination Pole Req'd. Sta.116+37.88,(Breakaway) 16.19' LT Blenheim Blvd.Bl.

Pole 28, St'd. Decorative Pole Req'd. Sta.117+03.03,(Breakaway) 16.30' LT Blenheim Blvd.Bl.

Pole 29, St'd. Combination Pole Req'd. Sta.117+62.13,(Breakaway) 16.81' LT Blenheim Blvd.Bl.

Pole 30, St'd. Decorative Pole Req'd. Sta.118+34.38,(Breakaway) 16.71' LT Blenheim Blvd.Bl.

Pole 31, St'd. Decorative Pole Req'd. Sta.118+75.03 54.00' LT Blenheim Blvd.Bl.

Pole 125, St'd. Decorative Pole Req'd. Sta.112+23.95,(Breakaway) 22.06' RT Blenheim Blvd.Bl.

Pole 126, St'd. Decorative Pole Req'd. Sta.112+84.80,(Breakaway) 21.97' RT Blenheim Blvd.Bl.

Pole 127, St'd. Decorative Pole Req'd. Sta.113+47.27,(Breakaway) 20.91' RT Blenheim Blvd.Bl.

Pole 128, St'd. Decorative Pole Req'd. Sta.114+28.34,(Breakaway) 18.90' RT Blenheim Blvd.Bl.

Pole 129, St'd. Decorative Pole Req'd. Sta.114+87.33,(Breakaway) 18.46' RT Blenheim Blvd.Bl.

Pole 130, St'd. Decorative Pole Req'd. Sta.115+47.03,(Breakaway) 20.11' RT Blenheim Blvd.Bl.

Pole 131, St'd. Decorative Pole Req'd. Sta.116+25.58,(Breakaway) 24.10' RT Blenheim Blvd.Bl.

Pole 132, St'd. Decorative Pole Req'd. Sta.116+94.85,(Breakaway) 38.78' RT Blenheim Blvd.Bl.

Pole 133, St'd. Decorative Pole Req'd. Sta.117+48.49,(Breakaway) 38.28' RT Blenheim Blvd.Bl.

Pole 134, St'd. Decorative Pole Req'd. Sta.118+04.79,(Breakaway) 33.68' RT Blenheim Blvd.Bl.

Pole 136, St'd. Decorative Pole Req'd. Sta.118+98.23,(Breakaway) 28.32' RT Blenheim Blvd.Bl.

JB 501 JB 502 JB 503 JB 504 JB 505 JB 506 JB 507 JB 508 JB 509 JB 510 JB 511 JB 512 JB 513 JB 514 JB 515 JB 516 JB 517 JB 518 JB 519 JB 520 JB 521 JB 522 JB 523 JB 524 JB 525 JB 526

150W-0-16 CCW1-A-3 · 150W-0-16 CCW1-B-4 · 150W-0-16 CCW1-A-3 · 150W-0-16 CCW1-B-4 · 150W-0-16 CCW1-A-3 · 150W-0-16 CCW2-A-1 · 150W-2-16 CCW2-B-2 · 150W-0-16 CCW2-A-1 · 150W-2-16 CCW2-B-2 · 150W-0-16 CCW2-A-1 · 150W-2-16 CCW2-B-2 · 150W-0-16 CCW2-A-1 · 150W-0-16 CCW1-B-6 · 150W-0-16 CCW1-A-5 · 150W-0-16 CCW-A-5 · 150W-0-16 CCW1-A-5 · 150W-0-16 CCW2-A-5 · 150W-0-16 CCW2-B-6 · 150W-6-30 CCW2-B-2 · 150W-6-30 CCW2-B-2 · 150W-0-16 CCW2-B-6 · 150W-6-30 CCW2-B-2 · 150W-0-16 CCW2-A-5 · 150W-0-16 CCW2-A-5

Lighting Fixture to be Removed (×5)

Remove Ex. Cox Down Guy

Remove Ex. VZN Down Guy

Ex. Riser

COX TO ATTACH TO NEW POLE

Remove Ex. Pushbrace

Ex. DOM Riser

Prop. DOM on Verizon Pole

Prop. DOM OH Service

VZN TO RE-ATTACH EXISTING OH CABLES TO PROPOSED POLES STA. 116+85 TO STA.120+05

VZN TO INSTALL SIDEWALK GUY

VZN TO INSTALL DOWN GUY

REPLACE EXISTING GUY WITH SHORTER GUY

TO BE REMOVED Ex. ELECTRIC

VZN TO SET POLE #V074 TO A DEPTH OF 8' 2" IS EAST OF EXISTING GUY

Cox Communications to adjust Service Drop at STA.118+50

Cox 009 Communications to adjust Service Drop at STA.118+50

ABANDON BURIED CABLE

PROP. VZN POLE 7' DEEP MOVE BACK 1'

Prop. DOM on Verizon Pole W/ 13' Lead

Prop. DOM OH Service

Prop. DOM on Verizon Pole

Prop. DOM on Verizon Pole

Prop. DOM on Verizon Pole

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

Rinker Design Assoc. P.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

Spring Lake Ter.
Blenheim Blvd
Old Post Rd.
Colony Rd.
Match Line, Sta. 119+00.00 (Blenheim Blvd.) - See Sheet 18(5)
Match Line, Sta. 126+00.00 (Blenheim Blvd.) - See Sheet 18(7)
Gravel Shoulder
Ex. 25 MPH Flashing Sign
Lighting Fixture to be Removed
Proposed Control Center CCW2
Prop Cox at 2) Conduit INV: 397.07 Drainage Structure RIM: 402.10
Prop Cox at 2) Conduit STA 123+25 TO STA 124+56
Prop Cox at 2) Conduit STA 123+25 TO STA 126+00 36" DEPTH
Prop Cox Tie in up Ex Dom pole
Attach to Ex Pole
Prop DOM 36" Concrete Drainage End Section
Prop DOM 50ft RT
Prop Cox at 2) Conduit INV: 397.07 Drainage Structure RIM: 402.10
COX COMMUNICATION TO ATTACH NEW CABLES TO EXISTING POLES
VZN TO ABANDON UG CABLES FROM STA 122+05 TO STA 122+90
VZN TO REMOVE EXISTING OH CABLES TO PROPOSED POLES STA 116+85 TO STA 120+08
DOM #WA51
DOM #WA62
DOM #WA92
VZN #13
EX.R/W
Pole 32, St'd. Combination Pole Req'd. Sta. 119+08.27, (Breakaway) 16.50' LT Blenheim Blvd. Bl.
Pole 33, St'd. Decorative Pole Req'd. Sta. 119+49.99 52.14' LT Blenheim Blvd. Bl.
Pole 34, St'd. Decorative Pole Req'd. Sta. 119+79.11, (Breakaway) 15.89' LT Blenheim Blvd. Bl.
Pole 35, St'd. Decorative Pole Req'd. Sta. 120+14.31 49.44' LT Blenheim Blvd. Bl.
Pole 36, St'd. Decorative Pole Req'd. Sta. 120+46.46, (Breakaway) 17.90' LT Blenheim Blvd. Bl.
Pole 37, St'd. Decorative Pole Req'd. Sta. 120+96.17, (Breakaway) 23.47' LT Blenheim Blvd. Bl.
Pole 38, St'd. Decorative Pole Req'd. Sta. 121+30.48 49.13' LT Blenheim Blvd. Bl.
Pole 39, St'd. Decorative Pole Req'd. Sta. 121+65.07 44.29' LT Blenheim Blvd. Bl.
Pole 40, St'd. Decorative Pole Req'd. Sta. 122+65.55, (Breakaway) 50.78' LT Blenheim Blvd. Bl.
Pole 41, St'd. Decorative Pole Req'd. Sta. 123+50.39, (Breakaway) 49.28' LT Blenheim Blvd. Bl.
Pole 42, St'd. Combination Pole Req'd. Sta. 124+01.36, (Breakaway) 26.15' LT Blenheim Blvd. Bl.
Pole 43, St'd. Decorative Pole Req'd. Sta. 124+85.67, (Breakaway) 19.85' LT Blenheim Blvd. Bl.
Pole 44, St'd. Decorative Pole Req'd. Sta. 125+39.69, (Breakaway) 27.67' LT Blenheim Blvd. Bl.
Pole 137, St'd. Decorative Pole Req'd. Sta. 119+34.34, (Breakaway) 51.39' RT Blenheim Blvd. Bl.
Pole 138, St'd. Decorative Pole Req'd. Sta. 119+94.25, (Breakaway) 27.75' RT Blenheim Blvd. Bl.
Pole 139, St'd. Decorative Pole Req'd. Sta. 120+83.04 (Breakaway) 21.06 RT Blenheim Blvd. Bl.
Pole 140, St'd. Decorative Pole Req'd. Sta. 121+49.05, (Breakaway) 34.96' RT Blenheim Blvd. Bl.
Pole 141, St'd. Combination Pole Req'd. Sta. 121+89.44, (Breakaway) 19.36' RT Blenheim Blvd. Bl.
Pole 142, St'd. Combination Pole Req'd. Sta. 122+90.79, (Breakaway) 15.89' RT Blenheim Blvd. Bl.
Pole 143, St'd. Decorative Pole Req'd. Sta. 123+30.35, (Breakaway) 48.35' RT Blenheim Blvd. Bl.
Pole 144, St'd. Decorative Pole Req'd. Sta. 123+67.24, (Breakaway) 36.98' RT Blenheim Blvd. Bl.
Pole 145, St'd. Decorative Pole Req'd. Sta. 124+41.60, (Breakaway) 16.06' RT Blenheim Blvd. Bl.
Pole 146, St'd. Decorative Pole Req'd. Sta. 125+10.25, (Breakaway) 16.08' RT Blenheim Blvd. Bl.
Pole 147, St'd. Decorative Pole Req'd. Sta. 125+84.90, (Breakaway) 15.75' RT Blenheim Blvd. Bl.
JB 601 JB 602 JB 603 JB 604 JB 605 JB 606 JB 607 JB 608 JB 609 JB 610 JB 611 JB 612 JB 613 JB 614 JB 615 JB 616 JB 617 JB 618 JB 619 JB 620 JB 621 JB 622 JB 623 JB 624 JB 625 JB 626 JB 627 JB 628 JB 629
150W-0-16 CCW2-A-1
150W-0-16 CCW2-A-3
150W-0-16 CCW2-A-7
150W-0-16 CCW2-B-4
150W-0-16 CCW2-B-6
150W-0-16 CCW2-B-8
150W-2-16 CCW2-B-2
150W-2-16 CCW2-A-7
150W-2-16 CCW2-B-8
150W-6-30 CCW2-B-2
150W-6-30 CCW2-A-7
150W-6-30 CCW2-B-8

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)

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)

FINAL PLANS

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

4/22/2025

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)
- (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

Rinker Design Assoc. P.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

Match Line, Sta.126+00.00 (Blenheim Blvd.) - See Sheet 18(6)

Match Line, Sta.133+75.00 (Blenheim Blvd.) - See Sheet 18(8)

Pole 45, St'd. Decorative Pole Req'd. Sta.126+22.16,(Breakaway) 35.12' LT Blenheim Blvd. Bl.

Pole 46, St'd. Combination Pole Req'd. Sta.127+09.22,(Breakaway) 16.97' LT Blenheim Blvd. Bl.

Pole 47, St'd. Decorative Pole Req'd. Sta.127+89.95 ,(Breakaway) 15.74' LT Blenheim Blvd. Bl.

Pole 48, St'd. Decorative Pole Req'd. Sta.128+71.83,(Breakaway) 15.81' LT Blenheim Blvd. Bl.

Pole 49, St'd. Decorative Pole Req'd. Sta.129+47.70,(Breakaway) 16.08' LT Blenheim Blvd. Bl.

Pole 50, St'd. Combination Pole Req'd. Sta.130+16.81,(Breakaway) 16.83' LT Blenheim Blvd. Bl.

Pole 51, St'd. Decorative Pole Req'd. Sta.130+87.04,(Breakaway) 15.71' LT Blenheim Blvd. Bl.

Pole 52, St'd. Decorative Pole Req'd. Sta.131+56.03,(Breakaway) 16.97' LT Blenheim Blvd. Bl.

Pole 53, St'd. Decorative Pole Req'd. Sta.132+27.07,(Breakaway) 16.32' LT Blenheim Blvd. Bl.

Pole 54, St'd. Combination Pole Req'd. Sta.132+95.84,(Breakaway) 17.60' LT Blenheim Blvd. Bl.

Pole 55, St'd. Decorative Pole Req'd. Sta.132+95.84 68.08' LT Blenheim Blvd. Bl.

Pole 56, St'd. Decorative Pole Req'd. Sta.133+67.08,(Breakaway) 17.30' LT Blenheim Blvd. Bl.

Pole 148, St'd. Decorative Pole Req'd. Sta.126+40.15,(Breakaway) 31.88' RT Blenheim Blvd. Bl.

Pole 149, St'd. Decorative Pole Req'd. Sta.127+18.16,(Breakaway) 27.33' RT Blenheim Blvd. Bl.

Pole 150, St'd. Decorative Pole Req'd. Sta.127+60.54,(Breakaway) 25.79' RT Blenheim Blvd. Bl.

Pole 151, St'd. Decorative Pole Req'd. Sta.128+22.42,(Breakaway) 20.95' RT Blenheim Blvd. Bl.

Pole 152, St'd. Decorative Pole Req'd. Sta.129+03.04,(Breakaway) 25.65' RT Blenheim Blvd. Bl.

Pole 153, St'd. Decorative Pole Req'd. Sta.129+75.18,(Breakaway) 16.28' RT Blenheim Blvd. Bl.

Pole 154, St'd. Decorative Pole Req'd. Sta.130+69.32,(Breakaway) 15.71' RT Blenheim Blvd. Bl.

Pole 155, St'd. Decorative Pole Req'd. Sta.131+46.46,(Breakaway) 15.71' RT Blenheim Blvd. Bl.

Pole 156, St'd. Decorative Pole Req'd. Sta.132+23.31,(Breakaway) 15.97' RT Blenheim Blvd. Bl.

Pole 157, St'd. Decorative Pole Req'd. Sta.132+90.20,(Breakaway) 16.93' RT Blenheim Blvd. Bl.

JB 703, JB 704, JB 705, JB 706, JB 707, JB 708, JB 709, JB 710, JB 711, JB 712, JB 713, JB 714, JB 715, JB 716, JB 717, JB 718, JB 719, JB 720, JB 721, JB 722, JB 723, JB 724, JB 725, JB 726, JB 727

Blenheim Blvd

Heritage Ln.

Parklane Rd.

Embassy Ln.

Lighting Fixture to be Removed

Proposed Control Center CCW3

Prop. Utility Pole (By Others)

Storm Drainage Easmt DB 1213 Pg 319

EX. PRIVATE WATER ESMT DB 24257 PG 834

EX. R/W

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)

FINAL PLANS

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

4/22/2025

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)
- (N) 1 - 3" CONDUIT, PVC
  6 - #2 AWG
  1 - #6 AWG (EGC)
  1 - #2 AWG (EGC)
- (X) 1 - 3" CONDUIT SPARE

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

Rinker Design Assoc. P.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

Boxford Ct.

Brookwood Dr.

Blenheim Blvd

Gravel Shoulder

Ex. R/W

Match Line, Sta. 133+75.00 (Blenheim Blvd.) - See Sheet 18(7)

Match Line, Sta. 140+75.00 (Blenheim Blvd.) - See Sheet 18(9)

Pole 57, St'd. Decorative Pole Req'd. Sta.134+37.08,(Breakaway) 17.30' LT Blenheim Blvd.Bl.

Pole 58, St'd. Decorative Pole Req'd. Sta.134+96.05 63.58' LT Blenheim Blvd.Bl.

Pole 59, St'd. Decorative Pole Req'd. Sta.135+07.88,(Breakaway) 16.34' LT Blenheim Blvd.Bl.

Pole 60, St'd. Decorative Pole Req'd. Sta.135+83.48,(Breakaway) 17.30' LT Blenheim Blvd.Bl.

Pole 61, St'd. Combination Pole Req'd. Sta.136+53.33,(Breakaway) 17.22' LT Blenheim Blvd.Bl.

Pole 62, St'd. Decorative Pole Req'd. Sta.137+21.50,(Breakaway) 18.71' LT Blenheim Blvd.Bl.

Pole 63, St'd. Combination Pole Req'd. Sta.138+10.89,(Breakaway) 17.33' LT Blenheim Blvd.Bl.

Pole 64, St'd. Decorative Pole Req'd. Sta.138+80.89,(Breakaway) 17.33' LT Blenheim Blvd.Bl.

Pole 65, St'd. Decorative Pole Req'd. Sta.139+50.74,(Breakaway) 17.44' LT Blenheim Blvd.Bl.

Pole 66, St'd. Decorative Pole Req'd. Sta.140+20.95,(Breakaway) 24.25' LT Blenheim Blvd.Bl.

Pole 158, St'd. Decorative Pole Req'd. Sta.133+78.63,(Breakaway) 16.85' RT Blenheim Blvd.Bl.

Pole 159, St'd. Decorative Pole Req'd. Sta.134+58.63,(Breakaway) 17.67' RT Blenheim Blvd.Bl.

Pole 160, St'd. Decorative Pole Req'd. Sta.135+42.29,(Breakaway) 17.29' RT Blenheim Blvd.Bl.

Pole 161, St'd. Decorative Pole Req'd. Sta.136+21.39,(Breakaway) 31.30' RT Blenheim Blvd.Bl.

Pole 162, St'd. Decorative Pole Req'd. Sta.136+90.35,(Breakaway) 26.48' RT Blenheim Blvd.Bl.

Pole 163, St'd. Decorative Pole Req'd. Sta.137+72.90,(Breakaway) 22.62' RT Blenheim Blvd.Bl.

Pole 164, St'd. Decorative Pole Req'd. Sta.138+24.92,(Breakaway) 24.57' RT Blenheim Blvd.Bl.

Pole 165, St'd. Decorative Pole Req'd. Sta.138+94.79,(Breakaway) 16.11' RT Blenheim Blvd.Bl.

Pole 166, St'd. Decorative Pole Req'd. Sta.139+76.04,(Breakaway) 16.00' RT Blenheim Blvd.Bl.

Pole 167, St'd. Decorative Pole Req'd. Sta.140+47.27,(Breakaway) 16.90' RT Blenheim Blvd.Bl.

JB 801 JB 802 JB 803 JB 804 JB 805 JB 806 JB 807 JB 808 JB 809 JB 810 JB 811 JB 812 JB 813 JB 814 JB 815 JB 816 JB 817 JB 818 JB 819

150W-0-16 CCW3-B-6
150W-0-16 CCW3-A-3
150W-0-16 CCW3-B-4
150W-0-16 CCW3-A-5
150W-6-30 CCW3-B-6
150W-2-16 CCW3-B-6
150W-0-16 CCW4-A-3
150W-0-16 CCW4-B-6
150W-0-16 CCW4-B-4

Cox to transfer to existing new pole from stub pole at STA 136+12

Lighting Fixture to be Removed

Ex. 10' Storm Drainage Esmt DB 1281 Pg 92

Ex. 10' Storm Drainage Esmt DB 1467 Pg 237

Ex. Conc. SW

Ex. MH SA

032 033 034 035 036 037 038 039 040 041 042 043

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 0 25' 50'

PROJECT	SHEET NO.
U000-151-R94	18(8)

4/22/2025

FINAL PLANS

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

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

Rinker Design Assoc. P.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

Match Line, Sta.140+75.00 (Blenheim Blvd.) - See Sheet 18(8)

Match Line, Sta.148+25.00 (Blenheim Blvd.) - See Sheet 18(10)

Pole 67, St'd. Combination Pole Req'd. Sta.140+91.92, (Breakaway) 23.73' LT Blenheim Blvd. Bl.
Pole 68, St'd. Decorative Pole Req'd. Sta.141+68.62, (Breakaway) 22.44' LT Blenheim Blvd. Bl.
Pole 69, St'd. Decorative Pole Req'd. Sta.142+41.44, (Breakaway) 17.01' LT Blenheim Blvd. Bl.
Pole 70, St'd. Decorative Pole Req'd. Sta.143+09.71, (Breakaway) 17.32' LT Blenheim Blvd. Bl.
Pole 71, St'd. Decorative Pole Req'd. Sta.143+80.48, (Breakaway) 15.72' LT Blenheim Blvd. Bl.
Pole 72, St'd. Combination Pole Req'd. Sta.144+40.96, (Breakaway) 25.83' LT Blenheim Blvd. Bl.
Pole 73, St'd. Decorative Pole Req'd. Sta.145+27.04, (Breakaway) 26.76' LT Blenheim Blvd. Bl.
Pole 74, St'd. Decorative Pole Req'd. Sta.145+80.81, (Breakaway) 26.71' LT Blenheim Blvd. Bl.
Pole 75, St'd. Decorative Pole Req'd. Sta.146+33.97, (Breakaway) 26.71' LT Blenheim Blvd. Bl.
Pole 76, St'd. Decorative Pole Req'd. Sta.147+25.03, (Breakaway) 26.71' LT Blenheim Blvd. Bl.
Pole 78, St'd. Decorative Pole Req'd. Sta.147+71.71, (Breakaway) 28.17' LT Blenheim Blvd. Bl.

Pole 168, St'd. Decorative Pole Req'd. Sta.141+10.61, (Breakaway) 47.95' RT Blenheim Blvd. Bl.
Pole 169, St'd. Decorative Pole Req'd. Sta.141+46.41, (Breakaway) 48.37' RT Blenheim Blvd. Bl.
Pole 170, St'd. Decorative Pole Req'd. Sta.141+80.90, (Breakaway) 15.77' RT Blenheim Blvd. Bl.
Pole 171, St'd. Decorative Pole Req'd. Sta.142+54.12, (Breakaway) 16.25' RT Blenheim Blvd. Bl.
Pole 172, St'd. Decorative Pole Req'd. Sta.143+18.78, (Breakaway) 18.02' RT Blenheim Blvd. Bl.
Pole 173, St'd. Decorative Pole Req'd. Sta.143+92.41, (Breakaway) 17.93' RT Blenheim Blvd. Bl.
Pole 174, St'd. Decorative Pole Req'd. Sta.144+45.34, (Breakaway) 32.41' RT Blenheim Blvd. Bl.
Pole 175, St'd. Decorative Pole Req'd. Sta.145+11.16, (Breakaway) 48.66' RT Blenheim Blvd. Bl.
Pole 176, St'd. Decorative Pole Req'd. Sta.145+36.14, (Breakaway) 27.82' RT Blenheim Blvd. Bl.
Pole 177, St'd. Decorative Pole Req'd. Sta.146+15.09, (Breakaway) 26.98' RT Blenheim Blvd. Bl.
Pole 178, St'd. Decorative Pole Req'd. Sta.147+03.00, (Breakaway) 27.67' RT Blenheim Blvd. Bl.
Pole 179, St'd. Decorative Pole Req'd. Sta.147+89.87, (Breakaway) 26.08' RT Blenheim Blvd. Bl.

JB 901 JB 902 JB 903 JB 904 JB 905 JB 906 JB 907 JB 908 JB 909 JB 910 JB 911 JB 912 JB 913 JB 914 JB 915 JB 916 JB 917 JB 918 JB 919 JB 920 JB 921 JB 922 JB 923 JB 924 JB 925 JB 926

Lighting Fixture to be Removed

Country Hill Dr.
Queen Anne Dr.
Country Hill Dr.
Blenheim Blvd

TO BE REMOVED EX.ELECTRIC

Prop Cox Attach to Dom Pole w/down guy
Prop. DOM 55ft Pole
Prop. DOM OH
Prop Cox Attach to Dom Pole
Prop. DOM Pushbrace
DOM #CC79
DOM #BC72
DOM #BC73
DOM #BC74
DOM #BC75
DOM #BC76
DOM #BC77
DOM #BC78
Ex 20" Storm Drainage E.S.M.H. #BC76
Ex 24" Storm Drainage E.S.M.H. #BC77
Ex 24" Storm Drainage E.S.M.H. #BC78

042 043 045 046 047 048 049 050 051 052

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

Survey Control Data Sheet	IF
Geometric Data Sheet	IG(9)
Horizontal Constr. Alignment Data	IG(1A) - IG(1F)
Erosion Controls Ph1 & Ph2	IQ - IR(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)

4/22/2025

FINAL PLANS

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

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)
- (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

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
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Rinker Design Assoc. P.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

Match Line, Sta.148+25.00 (Blenheim Blvd.) - See Sheet 18(9)

Match Line, Sta.155+00.00 (Blenheim Blvd.) - See Sheet 18(11)

Blenheim Blvd

Cornell Rd.

Pole 80, St'd. Combination Pole Req'd. Sta.149+15.66, (Breakaway) 33.58' LT Blenheim Blvd. Bl.

Pole 79, St'd. Decorative Pole Req'd. Sta.148+47.47, (Breakaway) 27.33' LT Blenheim Blvd. Bl.

Pole 81, St'd. Combination Pole Req'd. Sta.149+95.04, (Breakaway) 30.24' LT Blenheim Blvd. Bl.

Pole 82, St'd. Decorative Pole Req'd. Sta.150+72.76, (Breakaway) 28.33' LT Blenheim Blvd. Bl.

Pole 84, St'd. Decorative Pole Req'd. Sta.152+23.29, (Breakaway) 27.63' LT Blenheim Blvd. Bl.

Pole 83, St'd. Decorative Pole Req'd. Sta.151+57.73, (Breakaway) 27.41' LT Blenheim Blvd. Bl.

Pole 85, St'd. Decorative Pole Req'd. Sta.152+89.54, (Breakaway) 27.67' LT Blenheim Blvd. Bl.

Pole 86, St'd. Decorative Pole Req'd. Sta.153+50.69, (Breakaway) 29.20' LT Blenheim Blvd. Bl.

Pole 87, St'd. Decorative Pole Req'd. Sta.154+13.36, (Breakaway) 27.02' LT Blenheim Blvd. Bl.

Pole 88, St'd. Decorative Pole Req'd. Sta.154+87.13, (Breakaway) 28.32' LT Blenheim Blvd. Bl.

Pole 180, St'd. Combination Pole Req'd. Sta.148+68.66, (Breakaway) 24.38' RT Blenheim Blvd. Bl.

JB 1001 JB 1002 JB 1003 JB 1004 JB 1005 JB 1006 JB 1007 JB 1008 JB 1009 JB 1010 JB 1011

150W-2-16 CCW4-A-1
150W-6-30 CCW4-A-1
150W-0-16 CCW4-B-2
150W-0-16 CCW4-B-4
150W-0-16 CCW4-A-1
150W-0-16 CCW5-B-2
150W-0-16 CCW5-A-1

Lighting Fixture to be Removed

TO BE REMOVED EX. ELECTRIC

Prop Cox Attach to Dom Pole W/ Down Guy

Prop. DOM 50ft Pole

Prop Cox Attach to Dom Pole

PL 3-1.5" INNER DUCT 7 DEEP TIE TO EXISTING POLE 21 AERIAL CABLE TO BE REMOVED

Prop.Cox (10ft) of 2(2") conduits

Transformer

Prop. DOM OH

Prop VZN (4)1.5" conduit 2'x3' HH

Prop VZN 7 FT DEPTH

Prop VZN Tie Into Ex Pole

Ex.Grass Area

Prop VZN Remove stub pole 21

Prop Cox Attach to Dom Pole W/ Down Guy and Anchor

Prop. DOM OH

Ex.Gravel Shoulder

COX TO REMOVE OLD SPAN

C&P VA 22

Prop Cox Mid Span Minimum 19' Height

Prop. DOM Tie Into Ex pole

Cox to relocate span on new alignment with down guy wire. 15' Lead

Ex.R/W

050 052 053 054

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)

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)

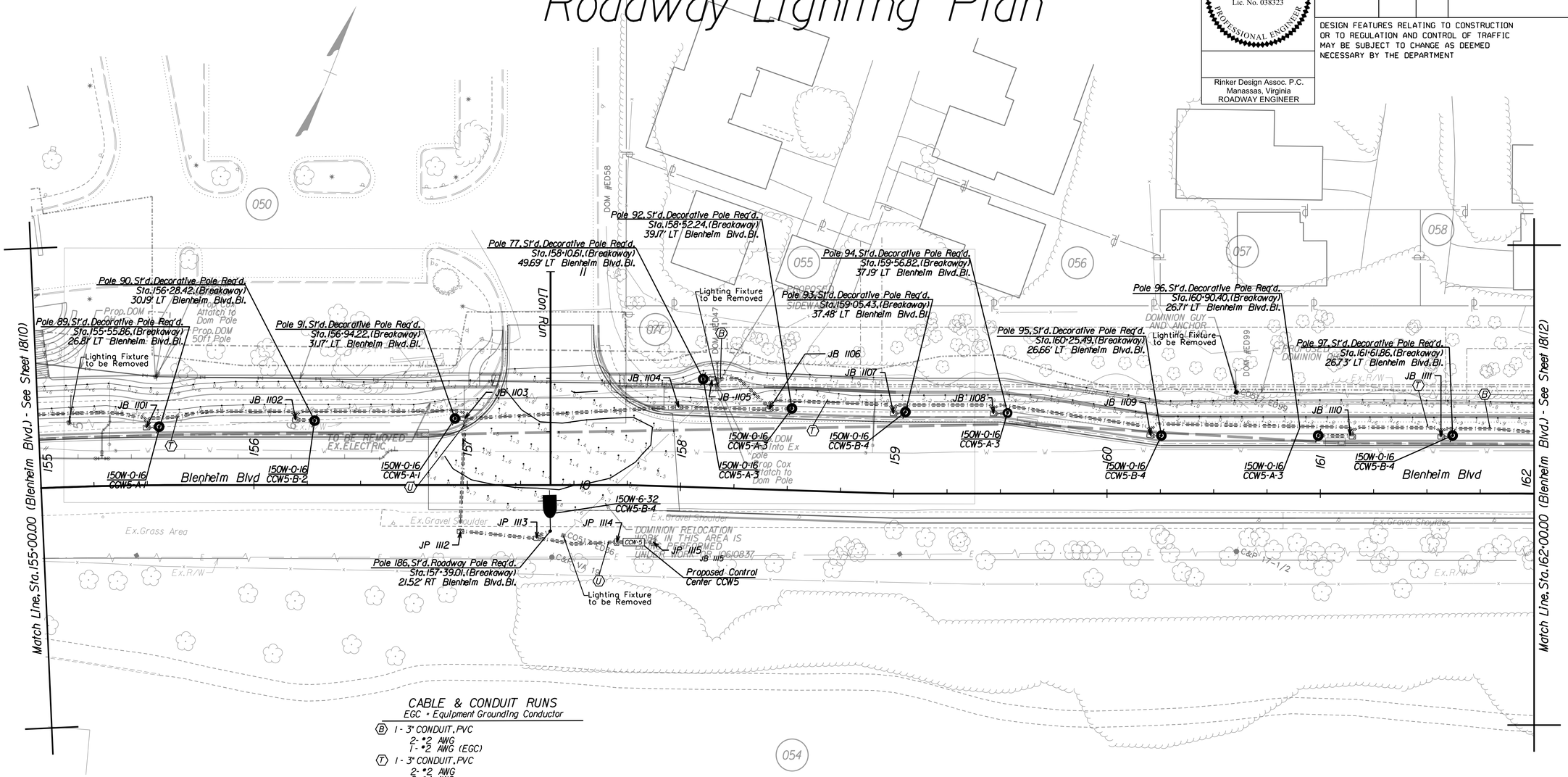
Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
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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



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)

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

Survey Control Data Sheet	1F
Geometric Data Sheet	1G(1)
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	PROJECT	SHEET NO.
0 25' 50'	U000-151-R94	18(11)

FINAL PLANS

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

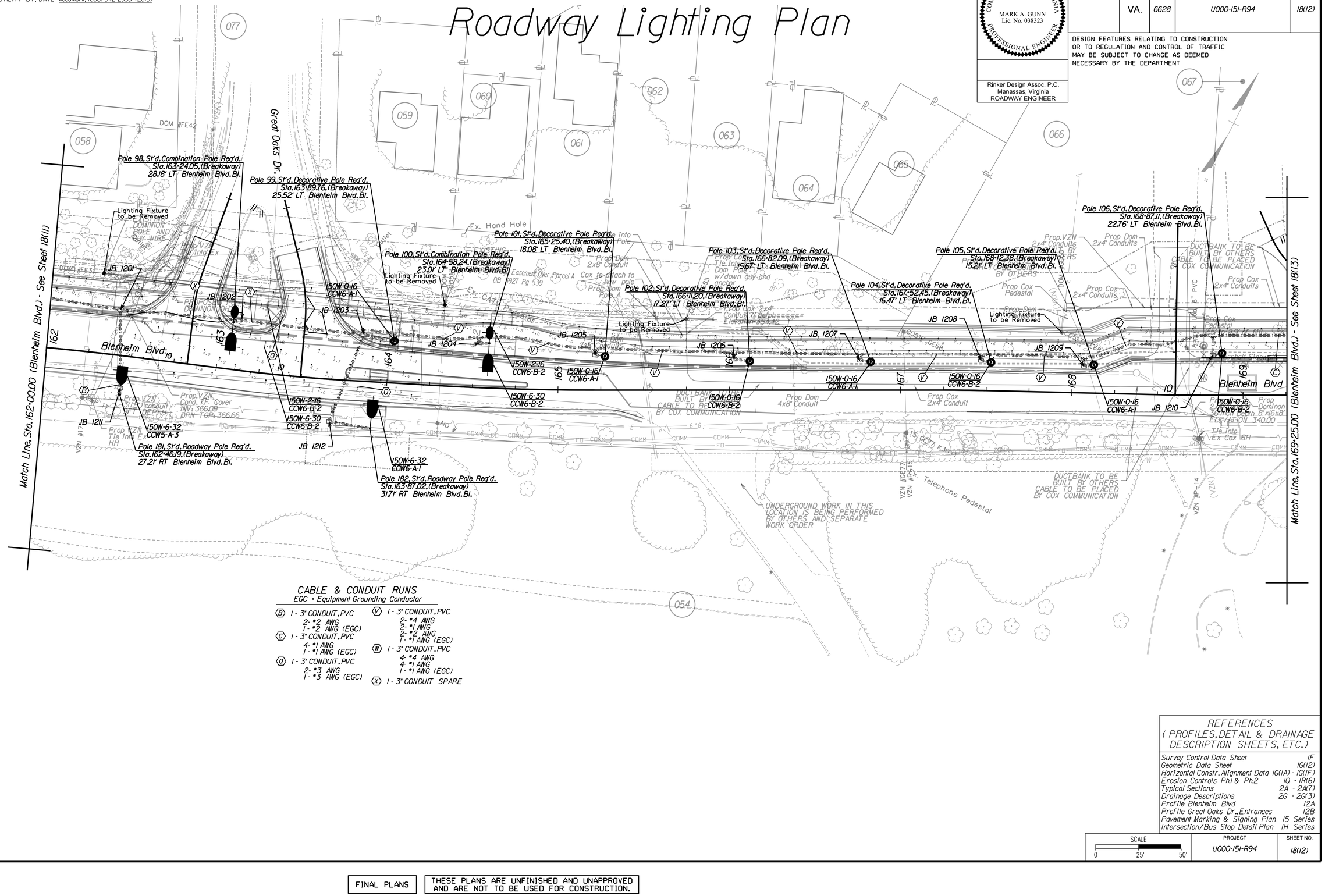
Roadway Lighting Plan

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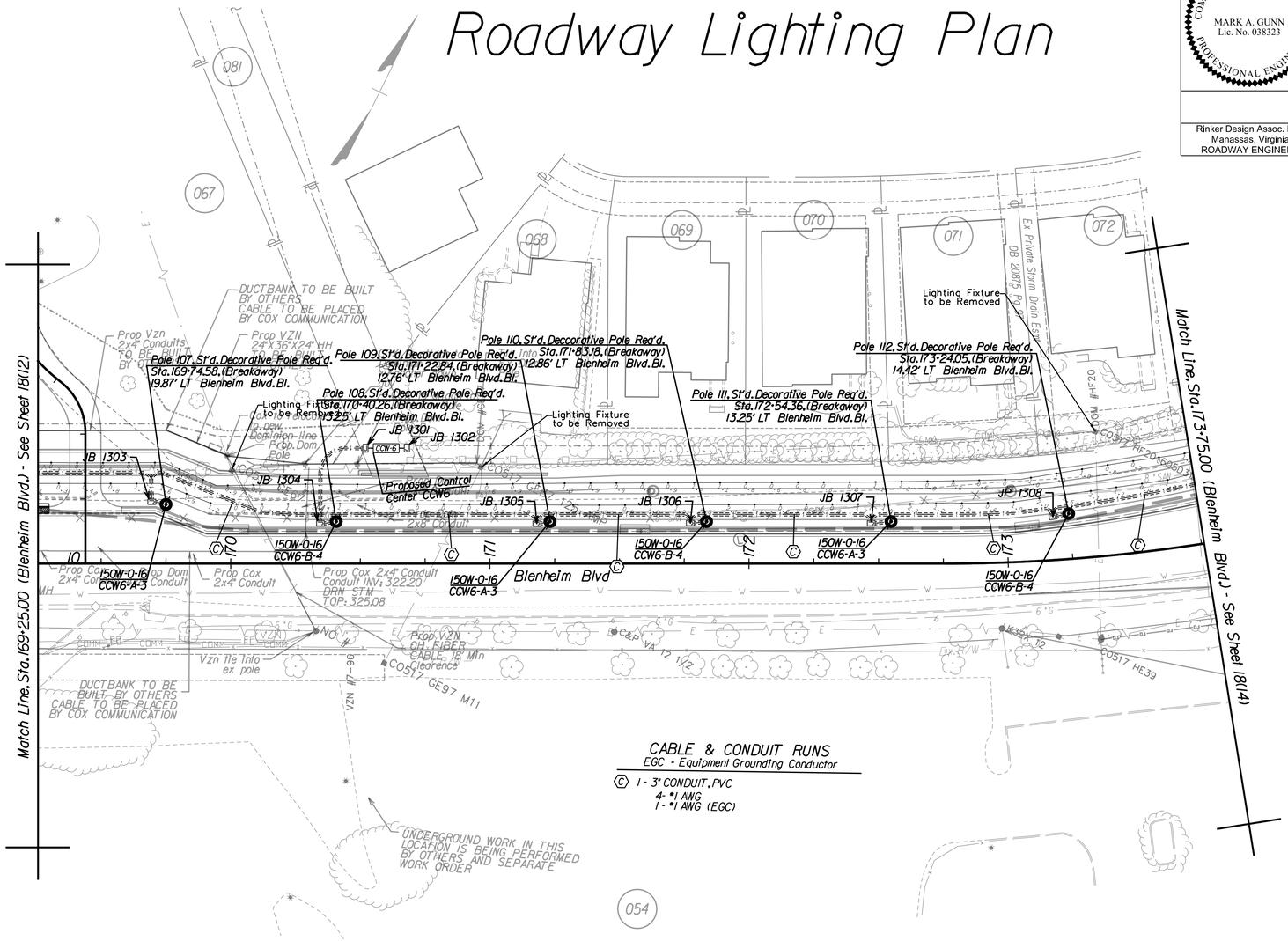
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(12)

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


Great Oaks Dr.
Blenheim Blvd
Match Line, Sta. 162+00.00 (Blenheim Blvd.) - See Sheet 18(11)
Match Line, Sta. 169+25.00 (Blenheim Blvd.) - See Sheet 18(13)
Pole 98, St'd. Combination Pole Req'd. Sta. 163+24.05, (Breakaway) 28.18' LT Blenheim Blvd. Bl.
Pole 99, St'd. Decorative Pole Req'd. Sta. 163+89.76, (Breakaway) 25.52' LT Blenheim Blvd. Bl.
Pole 100, St'd. Combination Pole Req'd. Sta. 164+58.24, (Breakaway) 23.01' LT Blenheim Blvd. Bl.
Pole 101, St'd. Decorative Pole Req'd. Sta. 165+25.40, (Breakaway) 18.08' LT Blenheim Blvd. Bl.
Pole 102, St'd. Decorative Pole Req'd. Sta. 166+11.20, (Breakaway) 17.27' LT Blenheim Blvd. Bl.
Pole 103, St'd. Decorative Pole Req'd. Sta. 166+82.09, (Breakaway) 15.67' LT Blenheim Blvd. Bl.
Pole 104, St'd. Decorative Pole Req'd. Sta. 167+52.45, (Breakaway) 16.47' LT Blenheim Blvd. Bl.
Pole 105, St'd. Decorative Pole Req'd. Sta. 168+12.38, (Breakaway) 15.21' LT Blenheim Blvd. Bl.
Pole 106, St'd. Decorative Pole Req'd. Sta. 168+87.11, (Breakaway) 22.76' LT Blenheim Blvd. Bl.
Pole 181, St'd. Roadway Pole Req'd. Sta. 162+46.19, (Breakaway) 27.21' RT Blenheim Blvd. Bl.
Pole 182, St'd. Roadway Pole Req'd. Sta. 163+87.02, (Breakaway) 31.71' RT Blenheim Blvd. Bl.
JB 1201
JB 1202
JB 1203
JB 1204
JB 1205
JB 1206
JB 1207
JB 1208
JB 1209
JB 1210
JB 1211
JB 1212
150W-0-16 CCW6-A-1
150W-2-16 CCW6-B-2
150W-6-30 CCW6-B-2
150W-6-32 CCW5-A-3
150W-6-32 CCW6-A-1
150W-0-16 CCW6-A-1
150W-0-16 CCW6-B-2
150W-0-16 CCW6-A-1
150W-0-16 CCW6-B-2
150W-0-16 CCW6-A-1
150W-0-16 CCW6-B-2
Lighting Fixture to be Removed
Ex. Hand Hole
Ex. CATV Pedestal
Prop Dom 2x8" Conduit
Prop Dom 2x4" Conduits
Prop Dom 4x8" Conduit
Prop Cox 2x4" Conduits
Prop Cox Pedestal
Prop VZN Cond. TF Cover INV: 366.09 DRN TOP: 366.66
Tie Into Ex Cox HH
DUCTBANK TO BE BUILT BY OTHERS CABLE TO BE PLACED BY COX COMMUNICATION
UNDERGROUND WORK IN THIS LOCATION IS BEING PERFORMED BY OTHERS AND SEPARATE WORK ORDER
VZN #GE27
VZN #PX15
Ex. Telephone Pedestal
VZN #P14
Easement Over Parcel A DB 1927 Pg 539
Prop Cox 2x4" Conduit Telephone Elevation=354.42
Prop Dominion Joint Bench 8'x16x8' ELEVATION 340.00
Prop VZN 2x4" Conduits to be Built by Others
Prop VZN 2x4" Conduit to be Built by Others
Prop VZN Tie Into Ex HH
Prop Dom 2x8" Conduit w/down guy and anchor
Tie Into Ex Dom Pole
Prop Dom Pole A
Cox to attach to new pole
Prop Cox Tie Into Ex Pedestal
Prop Cox 2x4" Conduit To Telephone Pedestal
Prop Dom 2x4" Conduits
Prop Cox 2x4" Conduits
Prop Cox Pedestal
Prop Dom 2x4" Conduit
Prop Dom 2x4" Conduits
Prop Dom 2x4" Conduit
Prop Dominion Joint Bench 8'x16x8' ELEVATION 340.00
Tie Into Ex Cox HH
DUCTBANK TO BE BUILT BY OTHERS CABLE TO BE PLACED BY COX COMMUNICATION
DUCTBANK TO BE BUILT BY OTHERS CABLE TO BE PLACED BY COX COMMUNICATION
DOM #FE42
DOMINION POLE AND OH WIRE
CCOMM #FE37
Prop VZN Tie Into HH
VZN #17
Prop VZN Cond. TF Cover INV: 366.09 DRN TOP: 366.66
Prop VZN 2x4" Conduit
Prop VZN Tie Into Ex HH
VZN #P15
VZN #P14
Ex. CATV Pedestal
Ex. Telephone Pedestal
Ex. Hand Hole
Ex. Cox HH
Ex. Cox Pedestal
Ex. Dom Pole
Ex. Dom Pole A
Ex. Dom 2x8" Conduit
Ex. Dom 2x4" Conduit
Ex. Dom 2x4" Conduits
Ex. Cox 2x4" Conduit
Ex. Cox 2x4" Conduits
Ex. Dom 4x8" Conduit
Ex. Dom 2x4" Conduit
Ex. Dom 2x4" Conduits
Ex. Cox 2x4" Conduit
Ex. Cox 2x4" Conduits

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



CABLE & CONDUIT RUNS

EGC = Equipment Grounding Conductor

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

COMMONWEALTH OF VIRGINIA
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Rinker Design Assoc. P.C.
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ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	6628	U000-151-R94	18(13)

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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)

4/22/2025

FINAL PLANS

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Roadway Lighting Plan

COMMONWEALTH OF VIRGINIA
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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

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)

Match Line, Sta.173+75.00 (Blenheim Blvd.) - See Sheet 18(13)

Ridge Ave.

Blenheim Blvd

Old Lee Highway

Pole 113, St'd. Roadway Pole Req'd.
Sta.174+64.09, (Breakaway)
39.95' LT Blenheim Blvd. Bl.

Pole 114, St'd. Decorative Pole Req'd.
Sta.174+75.04, (Breakaway)
94.81' LT Blenheim Blvd. Bl.

Pole 115, St'd. Roadway Pole Req'd. Dual Luminare
Sta.176+27.38, (Breakaway)
2.23' LT Blenheim Blvd. Bl.

Pole 183, St'd. Combination Pole Req'd.
Sta.173+92.81, (Breakaway)
18.96' LT Blenheim Blvd. Bl.

Pole 184, St'd. Roadway Pole Req'd.
Sta.174+61.83, (Breakaway)
40.44' RT Blenheim Blvd. Bl.

Pole 185, St'd. Roadway Pole Req'd.
Sta.175+54.37, (Breakaway)
49.84' RT Blenheim Blvd. Bl.

JB 1401 — 150W-2-16 CCW6-A-3
JB 1402 — 150W-6-32 CCW6-A-3
JB 1403 — Prop VZN 3'x2' HH Overseal Ex. Conduit
JB 1404 — Prop VZN 24"x36" Labole
JB 1405 — Prop VZN OH FIBER CABLE, 18' Min Clearence — 150W-6-32 CCW6-B-4
JB 1406 — 150W-6-32 CCW6-B-4

150W-6-30 CCW6-A-3
150W-6-32 CCW6-B-4
150W-6-32 CCW6-A-3
150W-6-32 CCW6-B-4

Prop VZN 4(2) Conduit INV: 299.03 Drainage Structure TOP: 298.06
Prop VZN 4(2) Conduit INV: 295.56 DRN STR TOP: 305.92
Prop Cox 4(2) Conduit ST A175+46 to ST A176+30
Prop Cox Down Guywire 15' lead
COX to Install new 24"x48"x24" HH
Lighting Fixture to be Remain
Lighting Fixture to be Removed
Bridge Improvements by Others
TO BE REMOVED EX. ELECTRIC
PROP. VERIZON UNDERGROUND FACILITIES ST A 173+00 TO ST A 176+00 3' DEEP REPLACE POLE 112
Connection per GIS

Ex. 100 Yr Flood Plain Esmt DB 6460 Pg 1
Ex. Storm Drain Esmt DB 20875 Pg 97
Ex. Storm Drain Esmt DB 3399 Pg 664
Ex. Center Line Ditch
Drain Esmt DB 4280 Pg 338
Ex. 15" Storm Drain Esmt DB 6460 Pg 1
Ex. 24" Storm Drain Esmt DB 20875 Pg 97
Ex. R/W
Ex. 8" SAN
Ex. 10" SAN
Ex. 8" WTR
Ex. 6" WTR
Ex. 8" GAS
Ex. 10" GAS
Ex. 12" GAS
Ex. 6" GAS
Ex. 8" E
Ex. 10" E
Ex. 12" E
Ex. 6" E
Ex. 8" T
Ex. 10" T
Ex. 12" T
Ex. 6" T
Ex. 8" W
Ex. 10" W
Ex. 12" W
Ex. 6" W
Ex. 8" G
Ex. 10" G
Ex. 12" G
Ex. 6" G
Ex. 8" C
Ex. 10" C
Ex. 12" C
Ex. 6" C
Ex. 8" S
Ex. 10" S
Ex. 12" S
Ex. 6" S
Ex. 8" O
Ex. 10" O
Ex. 12" O
Ex. 6" O
Ex. 8" Q
Ex. 10" Q
Ex. 12" Q
Ex. 6" Q
Ex. 8" P
Ex. 10" P
Ex. 12" P
Ex. 6" P
Ex. 8" R
Ex. 10" R
Ex. 12" R
Ex. 6" R
Ex. 8" U
Ex. 10" U
Ex. 12" U
Ex. 6" U
Ex. 8" V
Ex. 10" V
Ex. 12" V
Ex. 6" V
Ex. 8" J
Ex. 10" J
Ex. 12" J
Ex. 6" J
Ex. 8" K
Ex. 10" K
Ex. 12" K
Ex. 6" K
Ex. 8" L
Ex. 10" L
Ex. 12" L
Ex. 6" L
Ex. 8" M
Ex. 10" M
Ex. 12" M
Ex. 6" M
Ex. 8" N
Ex. 10" N
Ex. 12" N
Ex. 6" N
Ex. 8" H
Ex. 10" H
Ex. 12" H
Ex. 6" H
Ex. 8" F
Ex. 10" F
Ex. 12" F
Ex. 6" F
Ex. 8" D
Ex. 10" D
Ex. 12" D
Ex. 6" D
Ex. 8" B
Ex. 10" B
Ex. 12" B
Ex. 6" B
Ex. 8" A
Ex. 10" A
Ex. 12" A
Ex. 6" A
Ex. 8" Z
Ex. 10" Z
Ex. 12" Z
Ex. 6" Z
Ex. 8" Y
Ex. 10" Y
Ex. 12" Y
Ex. 6" Y
Ex. 8" X
Ex. 10" X
Ex. 12" X
Ex. 6" X
Ex. 8" W
Ex. 10" W
Ex. 12" W
Ex. 6" W
Ex. 8" V
Ex. 10" V
Ex. 12" V
Ex. 6" V
Ex. 8" U
Ex. 10" U
Ex. 12" U
Ex. 6" U
Ex. 8" T
Ex. 10" T
Ex. 12" T
Ex. 6" T
Ex. 8" S
Ex. 10" S
Ex. 12" S
Ex. 6" S
Ex. 8" R
Ex. 10" R
Ex. 12" R
Ex. 6" R
Ex. 8" Q
Ex. 10" Q
Ex. 12" Q
Ex. 6" Q
Ex. 8" P
Ex. 10" P
Ex. 12" P
Ex. 6" P
Ex. 8" O
Ex. 10" O
Ex. 12" O
Ex. 6" O
Ex. 8" N
Ex. 10" N
Ex. 12" N
Ex. 6" N
Ex. 8" M
Ex. 10" M
Ex. 12" M
Ex. 6" M
Ex. 8" L
Ex. 10" L
Ex. 12" L
Ex. 6" L
Ex. 8" K
Ex. 10" K
Ex. 12" K
Ex. 6" K
Ex. 8" J
Ex. 10" J
Ex. 12" J
Ex. 6" J
Ex. 8" H
Ex. 10" H
Ex. 12" H
Ex. 6" H
Ex. 8" G
Ex. 10" G
Ex. 12" G
Ex. 6" G
Ex. 8" F
Ex. 10" F
Ex. 12" F
Ex. 6" F
Ex. 8" E
Ex. 10" E
Ex. 12" E
Ex. 6" E
Ex. 8" D
Ex. 10" D
Ex. 12" D
Ex. 6" D
Ex. 8" C
Ex. 10" C
Ex. 12" C
Ex. 6" C