FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK). GEOPAK Computer Identification No. (16632)

VDOT FUNCTIONAL CLASSIFICATION LEGEND
- *GS-5 (Urban Other Principal Arterial System)*
- *GS-7 (Urban Collector St. System)*
- *GS-8 (Urban Local St. System)*
- *All roadways maintained by the City of Fairfax.*

Final Plan
December 2015

CITY OF FAIRFAX
DEPARTMENT OF PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED INTERSECTION AND DRAINAGE IMPROVEMENTS AT FAIRFAX BOULEVARD (U.S. ROUTE 29 & 50) AND CHAIN BRIDGE ROAD (ROUTE 123)

For U.S. Route 29/50: From 0.266mi. west of U.S. Rte. 29/50 and Rte. 123 intersection to 0.379mi. east of U.S. Rte. 29/50 and Rte. 123 intersection

For Route 123: From 0.119mi. south of U.S Rte. 29/50 and Rte. 123 intersection to 0.205mi. north of U.S. Rte. 29/50 and Rte. 123 intersection

FHWA 534 DATA 2E104
PPMS - 16632

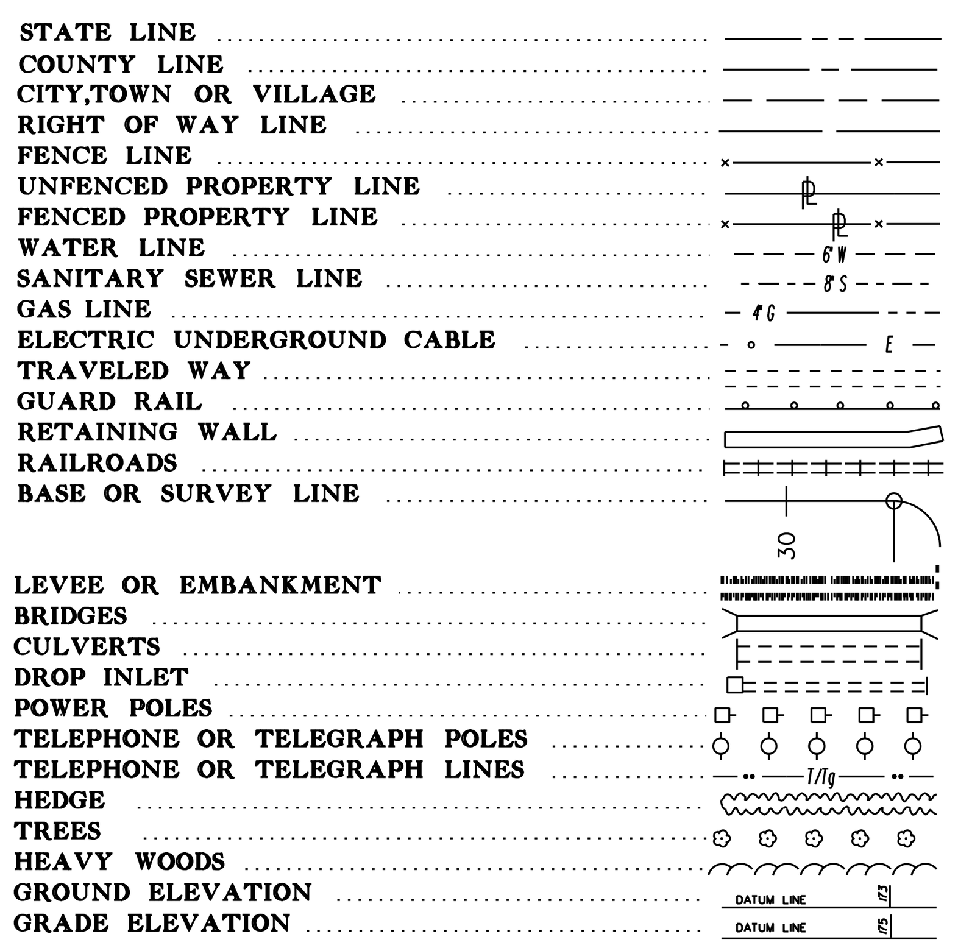
STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	STP-029-9( ) STP-5A01( ) (SEE TABULATION BELOW FOR SECTION NUMBERS)	-	0029-151-105 (NFO) See Tabulation Below For Section Numbers	1

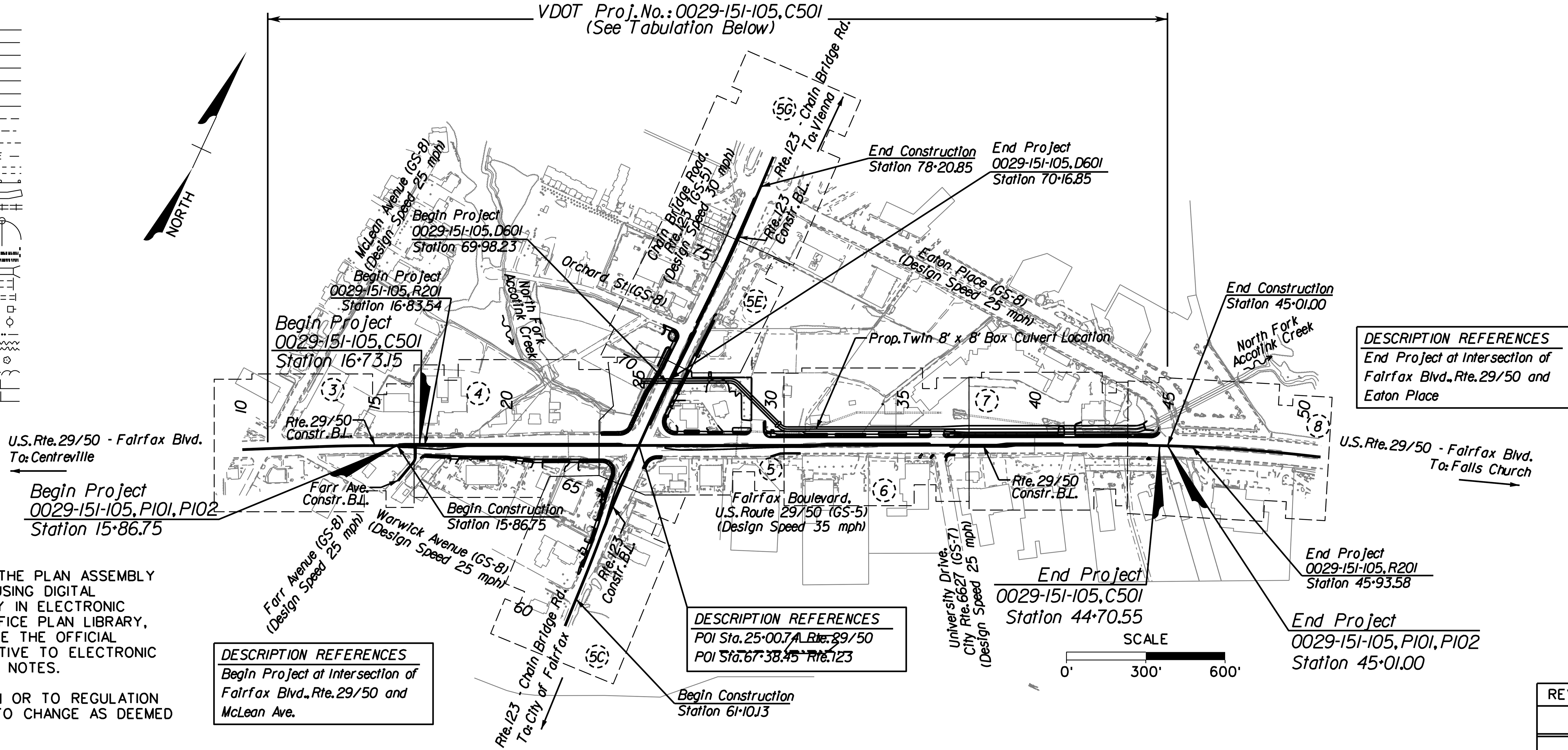
FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA
NHS - URBAN OTHER PRINCIPAL ARTERIAL (GS-5) - DIVIDED - ROLLING

For VDOT GS Classification, See Legend (Left)	Rte. 29/50 - 35 MPH Min. Design Speed		Rte. 123 - 30 MPH Min. Design Speed	
	Fr: Main Street To: Chain Bridge Rd	Fr: Chain Bridge Rd To: University Dr	Fr: Kenmore Drive To: US-29/50	Fr: US-29/50 To: I-66
ADT **	38,000 (2011)	36,000 (2011)	21,852 (2011)	30,805 (2011)
ADT **	77,660 (2045)	78,447 (2045)	31,888 (2045)	42,444 (2045)
DHV	2,698 (2011)	2,664 (2011)	1,595 (2011)	2,249 (2011)
D (%) (design hour)	62%	62%	51%	58%
T (%) (design hour)	1.7%	1.8%	1.9%	2.0%
V (MPH)	*	*	*	*

* See Plan and Profile Sheets for horizontal and vertical design speeds.
** Traffic AADT Volume Estimates are derived from Traffic Report/Counts.

CONVENTIONAL SIGNS





THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INLCUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC .PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11ULS, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

City of Fairfax Population 23,461 (2012)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES		
0029-151-105	P101	STP-029-9(002)	PENG	16632	NONE	2914.25*	0.552*	N/A	N/A	Prelim. Eng.	From 0.266mi. west of U.S. Rte. 29/50 and Rte. 123 intersection to 0.379mi. east of U.S. Rte. 29/50 and Rte. 123 intersection
	P102	STP-029-9(002)	PENG	16632	NONE	2914.25*	0.552*	N/A	N/A	Prelim. Eng.	
	C501	STP-5A01(609)	F000	16632	NONE	2797.4*	0.530*	N/A	N/A	Construction	
	R201	STP-5A01(475)	ROWA	16632	NONE	2910.04*	0.551*	N/A	N/A	Right of Way	From 0.141 mi. west of U.S. Rte. 29/50 and Rte. 123 intersection to 0.396mi. east of U.S. Rte. 29/50 and Rte. 123 intersection
	D601	STP-5A01(609)	-	16632	NONE	18.62**	0.004**	N/A	N/A	Box Culvert	From 259.78' north to 278.40' north of U.S. Route 29/50 and Rte. 123 Intersection

* Length of Project is based upon Rte. 29/50 Construction Baseline.
** Length of Project is based upon Rte. 123 Construction Baseline.

TIER 2 PROJECT

LOCALLY ADMINISTERED PROJECTS	
CITY OF FAIRFAX	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
01/31/2014 (DATE)	David Summers — DIRECTOR, CITY OF FAIRFAX D.P.W.
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
12/31/2015 (DATE)	David Summers — DIRECTOR, CITY OF FAIRFAX D.P.W.

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION (PARTIAL TAKES)	
4/7/2014 (DATE)	Diane L. Mitchell — DIRECTOR OF PROGRAMMING
4/8/2014 (DATE)	B.A. Thrasher — STATE LOCATION AND DESIGN ENGINEER
4/8/2014 (DATE)	Quintin D. Elliott — CHIEF OF PLANNING AND PROGRAMMING
4/8/2014 (DATE)	Mohammad Mirshahi — CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION	
4/8/2014 (DATE)	Richard Walton — CHIEF OF POLICY

REVISED

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
4/14/2016 (DATE)	Kimberly Pryor — INFRASTRUCTURE INVESTMENT DIRECTOR
4/15/2016 (DATE)	B.A. Thrasher — STATE LOCATION AND DESIGN ENGINEER
4/18/2016 (DATE)	John W. Lawson — CHIEF FINANCIAL OFFICER

APPROVED FOR CONSTRUCTION	
4/18/2016 (DATE)	Mohammad Mirshahi — FOR CHIEF ENGINEER

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C.(703) 368-7373 (2011).
DESIGNED BY Mark A. Gunn, P.E., Rinker Design Assoc., P.C.(703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011).

CITY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS

Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning · Transportation · Environmental · Right of Way Services
Office Locations

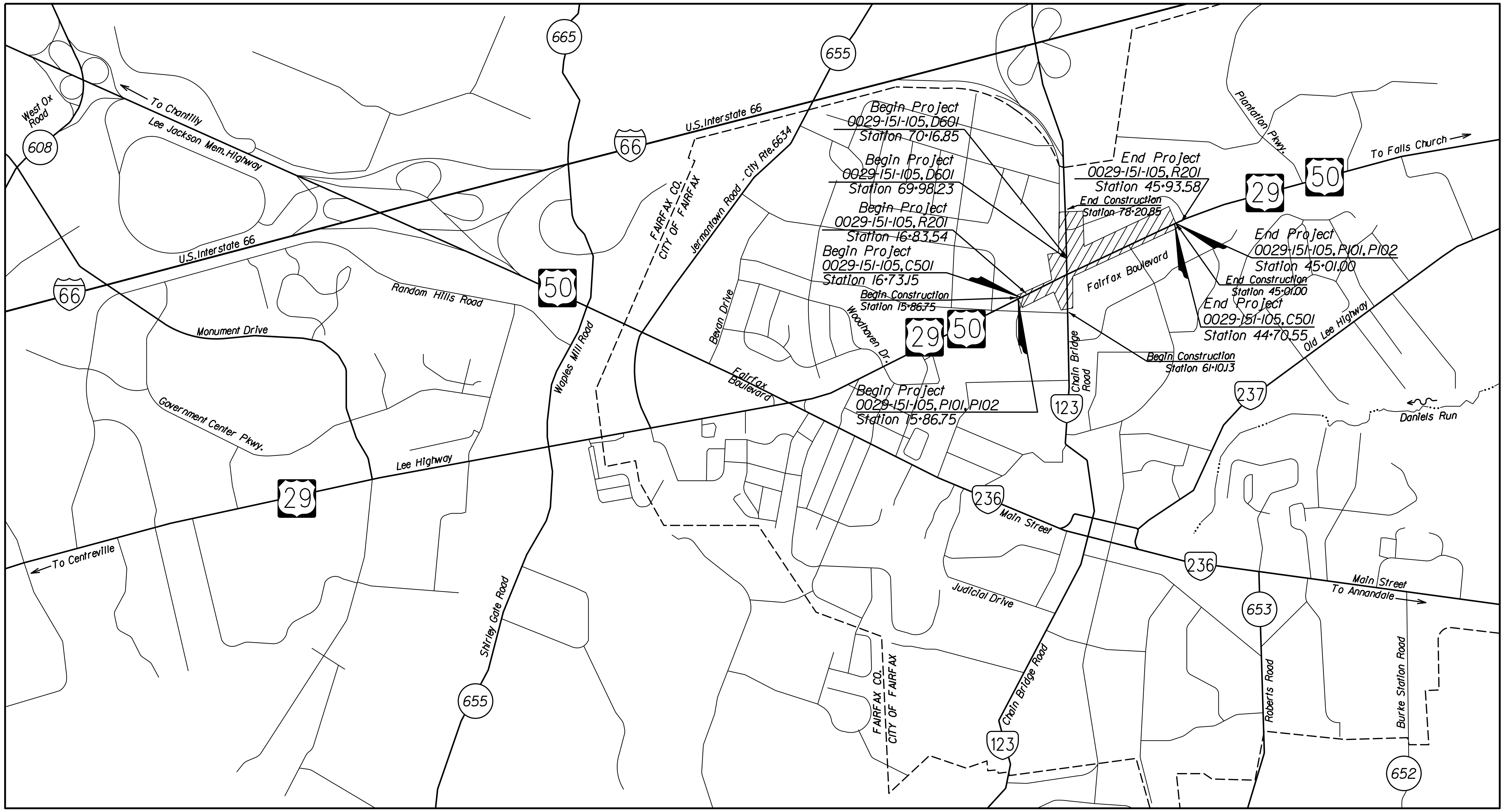
PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc. P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc. P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning
Transportation · Environmental
Right of Way Services
Office Locations

Project Location Map

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1A

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



SCALE
0' 1000' 2000'

INTERSECTION AND DRAINAGE IMPROVEMENTS AT
FAIRFAX BOULEVARD (U.S. ROUTE 29/50) AND
CHAIN BRIDGE ROAD (ROUTE 123)
PROJECT LOCATION MAP

CITY OF FAIRFAX, VIRGINIA 1" = 1000' SCALE

= CITY LIMITS

= PROJECT CONSTRUCTION AREA 0028-076-982
(SEE TITLE SHEET FOR LIMITS AND SECTION INFORMATION)

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning
Transportation • Environmental
Right of Way Services
Office Locations
927 Maple Grove Drive
Suite 105
Fredericksburg, VA 22407
Phone: (540) 548-4470
Fax: (540) 548-4471

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Project Index of Sheets

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	1B

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

PROJECT INDEX OF SHEETS		
VDOT Project 0029-151-105, P101, P102, C501, R201, D601		
....		
Sheet No.	1	Title Sheet for Intersection and Drainage Improvements at
		Fairfax Boulevard (U.S.Route 29 & 50) and Chain Bridge Road (Route 123)
Sheet No.	1A	Project Location Map
Sheet No.	1B	Project Index of Sheets
Sheet No.	1B(1)	Project Index of Sheets Cont.
Sheet No.	1C	Right of Way Data Sheet
Sheet No.	1D	Revision Data Sheet
Sheet No.	1E	Not Assigned
Sheet No.	1F	Survey Control Data
Sheet No.	1F(1)	Survey Control Data Cont.
Sheet No.	1F(2)	Survey Control Data Cont.
Sheet No.	1G	Horizontal Construction Alignment Data
Sheet No.	1G(1)	Horizontal Construction Alignment Data Cont.
Sheet No.	1G(1A)	Horizontal Construction Alignment Data Cont.(Graphical Representation)
Sheet No.	1G(2)	Radial Offset/Bullet Nose Data Summary
Sheet No.	1G(2A)	Curb Return Profiles
Sheet No.	1G(2B)	Curb Return Profiles Cont.
Sheet No.	1G(3)	Geometric Data
Sheet No.	1G(4)	Geometric Data Cont.
Sheet No.	1G(5)	Geometric Data Cont.
Sheet No.	1G(5C)	Geometric Data Cont.
Sheet No.	1G(5E)	Geometric Data Cont.
Sheet No.	1G(5G)	Geometric Data Cont.
Sheet No.	1G(6)	Geometric Data Cont.
Sheet No.	1G(7)	Geometric Data Cont.
Sheet No.	1G(8)	Geometric Data Cont.
Sheet No.	1H	Underground Utilities Test Hole Information
Sheet No.	1H(1)	Chain Bridge Rd (Rte.123) Utility Protection Plan
Sheet No.	1H(2)	Chain Bridge Rd (Rte.123) Utility Protection Plan Cont.
Sheet No.	1I	Not Assigned
Sheet No.	1J	TMP/SOC General Notes
Sheet No.	1K	TMP/SOC Phase 1
Sheet No.	1K(1)	TMP/SOC Phase 2
Sheet No.	1K(2)	TMP/SOC Phase 3A
Sheet No.	1K(3)	TMP/SOC Phase 3A Cont.
Sheet No.	1K(4)	TMP/SOC Phase 3A Cont.
Sheet No.	1K(5)	TMP/SOC Phase 3B
Sheet No.	1K(6)	TMP/SOC Phase 3C
Sheet No.	1K(7)	TMP/SOC Phase 3C Cont.
Sheet No.	1K(8)	TMP/SOC Phase 4
Sheet No.	1K(9)	TMP/SOC Phase 5
Sheet No.	1K(10)	TMP/SOC Phase 6
Sheet No.	1K(11)	TMP/SOC Phase 7
Sheet No.	1K(12)	TMP/SOC Phase 7 Cont.
Sheet No.	1K(13)	TMP/SOC Phase 7 Cont.
Sheet No.	1L	TMP/SOC Signal Plan General Notes
Sheet No.	1L(1)	TMP/SOC Signal Plan Phase 1
Sheet No.	1L(2)	TMP/SOC Signal Plan Phase 1 & 2
Sheet No.	1L(3)	TMP/SOC Signal Plan Phase 2
Sheet No.	1L(4)	TMP/SOC Signal Plan Phase 3A & 3B
Sheet No.	1L(5)	TMP/SOC Signal Plan Phase 3A
Sheet No.	1L(6)	TMP/SOC Signal Plan Phase 3C
Sheet No.	1L(7)	TMP/SOC Signal Plan Phase 4
Sheet No.	1L(8)	TMP/SOC Signal Plan Phase 5
Sheet No.	1M thru 1o	Not Assigned
Sheet No.	1P	Soils Map
Sheet No.	1P(1)	Soils Table
Sheet No.	1P(2)	Erosion and Sediment Control Narrative
Sheet No.	1P(3)	Erosion and Sediment Control Narrative
Sheet No.	1P(4)	Erosion and Sediment Control Details
Sheet No.	1P(5)	Erosion and Sediment Control Details
Sheet No.	1P(6)	Erosion and Sediment Control Details
Sheet No.	1Q	Erosion and Sediment Controls: Phase I
Sheet No.	1Q(1)	Erosion and Sediment Controls: Phase I Cont.
Sheet No.	1Q(2)	Erosion and Sediment Controls: Phase I Cont.
Sheet No.	1Q(3)	Erosion and Sediment Controls: Phase I Cont.
Sheet No.	1R	Erosion and Sediment Controls: Phase II
Sheet No.	1R(1)	Erosion and Sediment Controls: Phase II Cont.

Sheet No.	1R(2)	Erosion and Sediment Controls: Phase II Cont.
Sheet No.	1R(3)	Erosion and Sediment Controls: Phase II Cont.
Sheet No.	2	Project General Notes and Legend
Sheet No.	2A	Typical Sections
Sheet No.	2A(1)	Typical Sections Cont.
Sheet No.	2A(2)	Typical Sections Cont.
Sheet No.	2A(3)	Typical Sections Cont.
Sheet No.	2A(4)	Typical Sections Cont.
Sheet No.	2A(5)	Typical Sections Cont.
Sheet No.	2A(6)	Typical Sections Cont.
Sheet No.	2B	Geotechnical Recommendations
Sheet No.	2B(1)	Areas of Potential Contaminated Soils
Sheet No.	2C	Demolition Summary
Sheet No.	2C(1)	Demolition Summary Cont.
Sheet No.	2C(2)	Not Assigned
Sheet No.	2C(3)	Demolition Plan
Sheet No.	2C(4)	Demolition Plan Cont.
Sheet No.	2C(5)	Demolition Plan Cont.
Sheet No.	2C(5C)	Demolition Plan Cont.
Sheet No.	2C(5E)	Demolition Plan Cont.
Sheet No.	2C(5G)	Demolition Plan Cont.
Sheet No.	2C(6)	Demolition Plan Cont.
Sheet No.	2C(7)	Demolition Plan Cont.
Sheet No.	2C(8)	Demolition Plan Cont.
Sheet No.	2D thru 2G	Not Assigned
Sheet No.	2H	Hydrologic Data Sheet
Sheet No.	2I thru 2J	Not Assigned
Sheet No.	2K	Existing Drainage Descriptions
Sheet No.	2K(1)	Proposed Drainage Descriptions
Sheet No.	2K(2)	Proposed Drainage Descriptions
Sheet No.	2K(3)	Junction Box and Monolithic Box Details
Sheet No.	2K(4)	Modified Wall (Structure 8-2) and Box Culvert Radial Curve
Sheet No.	2K(5)	Ditch Typicals
Sheet No.	2L	Box Culvert Plan & Profile
Sheet No.	2L(1)	Box Culvert Plan & Profile Cont.
Sheet No.	2L(2)	Box Culvert Plan & Profile Cont.
Sheet No.	2L(3)	Box Culvert Plan & Profile Cont.
Sheet No.	2M	Drainage Profiles
Sheet No.	2M(1)	Drainage Profiles Cont.
Sheet No.	2M(2)	Drainage Profiles Cont.
Sheet No.	2M(3)	Drainage Profiles Cont.
Sheet No.	2M(4)	Drainage Profiles Cont.
Sheet No.	2M(5)	Drainage Profiles Cont.
Sheet No.	2N	Drainage Summary
Sheet No.	2N(A)	Drainage Summary
Sheet No.	2N(1)	Drainage Summary
Sheet No.	2N(1A)	Drainage Summary
Sheet No.	2N(2)	Drainage Summary
Sheet No.	2N(2A)	Drainage Summary
Sheet No.	2N(3)	Drainage Summary
Sheet No.	2N(3A)	Drainage Summary
Sheet No.	2N(4)	Drainage Summary
Sheet No.	2N(5)	Underdrain Summary
Sheet No.	2N(6)	Grading Summary
Sheet No.	2N(7)	Pavement Summary
Sheet No.	2N(8)	Incidental Summary
Sheet No.	2N(9)	Pavement Marking and Signage Summaries
Sheet No.	2N(10)	Traffic Signal Summary
Sheet No.	2N(11)	Sanitary Sewer and Waterline Relocation Summaries
Sheet No.	2o	Not Assigned
Sheet No.	2P	VDOT Insertable: Re-Directive Portable Impact Attenuator (Temporary Use Only)
Sheet No.	2P(1)	VDOT Insertable: PB-1 Install.of Pipe Culv.& S.S.Circ.Pipe Bedding & Backfill - Method "A"
		VDOT Insertable: PB-1 Install.of Pipe Culv.& S.S.Ellip.Pipe Bedding & Backfill - Method "A"
		VDOT Insertable: FE-CL Standard Fence Chain Link
		VDOT Insertable: HR-1 Standard Handrail Method of Locating and Erecting
Sheet No.	2P(2)	VDOT Insertable: PC-1 Details
Sheet No.	2P(3)	VDOT Insertable: PC-1 Details Cont.
Sheet No.	2P(4)	VDOT Insertable: PC-1 Details Cont.
Sheet No.	2P(5)	VDOT Insertable: CG-12 Detectable Warning Surface (General Notes)
		VDOT Insertable: CG-12 Detectable Warning Surface Type A (Perpendicular) Application
		VDOT Insertable: CG-12 Detectable Warning Surface Type B (Parallel) Application
		VDOT Insertable: CG-12 Detectable Warning Surface Type C (Parallel & Perpendicular) App.
		VDOT Insertable: CG-12 Detectable Warning Surface Median and Refuge Island Applications

		VDOT Insertable: ACOT-1 Asphalt Concrete Overlay Transitions
Sheet No.	2P(6)	VDOT Insertable: GR-HDW Standard Guardrail Hardware
		VDOT Insertable: GR-2,2A Standard Blocked-Out W-Beam Guardrail (Strong Post System)
		VDOT Insertable: GR-2,2A St'd.Blocked-Out W-Beam Guardrail (Strong Post System Details)
		VDOT Insertable: GR-11 Trailing End Terminal Treatment
		VDOT Insertable: GR-INS W-Beam Guardrail Installation Criteria
Sheet No.	2P(7)	VDOT Insertable: MB-10A Traffic Barrier Service Concrete Parapet (Single Face)
		VDOT Insertable: MB-11A Traffic Barrier Service Concrete Parapet (Double Face)
		VDOT Insertable: NG-1 Storage Facility for Nuclear Gauge
		VDOT Insertable: BCD-DT Double Box Culverts Standard Details
Sheet No.	2P(8)	VDOT Insertable: BCD-DT Double Box Culverts Standard Details
		VDOT Insertable: BCD-05 Double Box Culverts 2 to 5 ft.Fills
		VDOT Insertable: BCD-10 Double Box Culverts 5 to 10 ft.Fills
Sheet No.	2P(9)	VDOT Insertable: BCW-21 Wing Detail 2:1 Fill Slope - Type I
Sheet No.	2P(10)	VDOT Insertable: BCW-21 Wing Detail 2:1 Fill Slope - Type I Cont.
		VDOT Insertable: BCE-01 Details for Widening Exist.Box Culverts - Modifications to Exist.Box
		VDOT Insertable: BCE-01 Details for Widening Existing Box Culverts - Height Transitions
		VDOT Insertable: BCE-01 Details for Widening Existing Box Culverts - Wall Transitions
Sheet No.	2P(11)	VDOT Insertable: CF-1 Cabinet Foundation Details - Type A Traffic Signal Equipment
		VDOT Insertable: CF-2 Cabinet Foundation Details
		VDOT Insertable: CF-3 Cabinet Foundation Details - Type B Traffic Signal Equipment
		VDOT Insertable: MP-1 Signal Pole Details - Mast Arm & Combination Luminaire Mast Arm Pole
		VDOT Insertable: PF-2 Pedestal Pole and Foundation Details
Sheet No.	2P(12)	VDOT Insertable: SW-1 Signal Head Mounting Details Span Wire
		VDOT Insertable: SW-2 Signal Head Mounting Details Span Wire
		VDOT Insertable: SMB-1 Signal Head Mounting Details
		VDOT Insertable: SMB-2 Signal Head Mounting Details
		VDOT Insertable: SMB-3 Signal Head Mounting Details
		VDOT Insertable: TA-1 Tether Wire Details
Sheet No.	2P(13)	VDOT Insertable: SMD-1,2 Sign Mounting Details
		VDOT Insertable: WD-1 Steel Strain Signal Pole Wiring and Rigging Details
		VDOT Insertable: WD-2 Wood Pole Wiring and Rigging Details
		VDOT Insertable: PA-1,2,3,4 Pedestrian Actuation Details
Sheet No.	2P(14)	VDOT Insertable: PF-1 Signal Pole Foundation - Installation Details
		VDOT Insertable: PF-8 Signal Pole Foundation - Installation Details
		VDOT Insertable: LF-1 Lighting Pole Foundation - Installation Details
		VDOT Insertable: SE-5 Electrical Service Installation Details
Sheet No.	2P(15)	VDOT Insertable: TD-1A,B,C Loop Detector - Installation Detail
		VDOT Insertable: JB-S1,S2,S3 Junction Box For Non-Deliberate Traffic Use
		VDOT Insertable: ECI-1,2 Electrical Conduit and Conductor Cable Underground Installation
		VDOT Insertable: STP-1 Square Tube Sign Post
Sheet No.	2P(16)	VDOT Insertable: WSP-1 Temporary Signs
Sheet No.	2P(17)	VDOT Insertable: SPD-5 Sign Panel Design
		VDOT Insertable: PM-5 Typical Pavement Marking Left Turn Pavement Marked Median
		VDOT Insertable: PM-10 Pavement Word,Symbol,and Arrow Markings
		Type 3 Barricades Detail
Sheet No.	3	Plan Sheet U.S.Rte.29/50 Sta.10+00 to Sta.16+50
Sheet No.	3A	Profile Sheet U.S.Rte.29/50 Sta.10+00 to Sta.16+50
Sheet No.	4	Plan Sheet U.S.Rte.29/50 Sta.16+50 to Sta.23+50
Sheet No.	4A	Profile Sheet U.S.Rte.29/50 Sta.16+50 to Sta.23+50
Sheet No.	5	Plan Sheet U.S.Rte.29/50 Sta.23+50 to Sta.30+50 and U.S.Rte.123 Sta.65+75 to 70+75
Sheet No.	5(1)	Utility Location Sheet U.S.Rte.29/50 Sta.23+50 to Sta.30+50
		and U.S.Rte.123 Sta.65+75 to 70+75
Sheet No.	5A	Profile Sheet U.S.Rte.29/50 Sta.23+50 to Sta.30+50
Sheet No.	5B	Profile Sheet Rte.123 Sta.65+75 to Sta.70+75
Sheet No.	5C	Plan Sheet Rte.123 Sta.60+00 to Sta.65+75
Sheet No.	5D	Profile Sheet Rte.123 Sta.60+00 to Sta.65+75
Sheet No.	5E	Plan Sheet Rte.123 Sta.70+75 to Sta.76+00
Sheet No.	5F	Profile Sheet Rte.123 Sta.70+75 to Sta.76+00
Sheet No.	5G	Plan Sheet Rte.123 Sta.76+00 to Sta.78+20.85
Sheet No.	5H	Profile Sheet Rte.123 Sta.76+00 to Sta.78+20.85
Sheet No.	6	Plan Sheet U.S.Rte.29/50 Sta.30+50 to Sta.37+50
Sheet No.	6A	Profile Sheet U.S.Rte.29/50 Sta.30+50 to Sta.37+50
Sheet No.	7	Plan Sheet U.S.Rte.29/50 Sta.37+50 to Sta.43+50
Sheet No.	7A	Profile Sheet U.S.Rte.29/50 Sta.37+50 to Sta.43+50
Sheet No.	8	Plan Sheet U.S.Rte.29/50 Sta.43+50 to Sta.45+01.86
Sheet No.	8A	Profile Sheet U.S.Rte.29/50 Sta.43+50 to Sta.45+01.86
Sheet No.	9	Entrance Profiles
Sheet No.	9A	Entrance Profiles Cont.
Sheet No.	9B	Entrance Profiles Cont.

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Rinker Design Associates, P.C.
Office Locations

Project Index of Sheets Cont.

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1B(1)

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 CONT.

64 Total cross section sheets.

GEOPAK COMPUTER IDENTIFICATION NO.16632.

PROJECT MANAGER Wendy Block Sanford,City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc.,P.C.(703) 368-7373 (2011)
DESIGNED BY Adam D.Welschenbach,P.E.,Rinker Design Assoc.,P.C.(703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Right of Way Data Sheet

(Please note that all data shown here is for information purposes only. Please see signed and recorded final acqusition plats.)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:40:39 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014 06/19/2014 09/15/2014 02/05/2015 10/28/2015	VA.	-	0029-151-105 P101,P102,R201,C501	1C

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

City/County: City of Fairfax,Virginia
UPC No.: 16632

PARCEL NO.	LANDOWNER	SHEET NO.	AREA: TOTAL	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	EASEMENT: STORM DRAINAGE	SIGNAL	UTILITY CITY OF FFX SANITARY	*UTILITY CITY OF FFX WATERLINE	UTILITY AT&T	UTILITY COX	UTILITY DOMINION	UTILITY VERIZON	SHARED	TEMP. CONSTR.	TEMP. ENTRANCE	TEMP. DEMOLITION	PROFFERS	REMARKS
			ACRES OR SQUARE FEET	SQ. FT.	SQ. FT.	ACRES OR SQUARE FEET	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	YES / NO	FAIRFAX CITY PARCEL ID
001	GLASCOCK AND SONS LIMITED LIABILITY LIMITED PARTNERSHIP	4	0.9280 Ac.	-	-	0.9280 Ac.	2,078	-	-	-	-	-	-	-	-	-	-	-	NO	57-2-((2))-15
002	CITY OF FAIRFAX,VIRGINIA	5	0.2062 Ac.	1,522	-	0.1712 Ac.	-	-	-	-	1,131	1,131	2,094	2,094	-	-	-	-	NO	57-2-((2))-16
003	A.R.G.II,L.L.C.	4,5	2.4746 Ac.	5,081	-	2.3580 Ac.	24,270	-	-	-	3,847	3,926	4,564	4,394	-	12,754	-	-	NO	57-2-((2))-17, 57-2-((2))-18, 57-2-((2))-19, 57-2-((8))-11
004	DIMITRIOS PATRIANAKOS AND VASILIOS PATRIANAKOS	5,5E	0.5428 Ac.	2,219	-	0.4919 Ac.	-	-	-	-	184	2,416	2,416	2,416	-	877	2,438	-	NO	57-2-((2))-20
005	WPPI FAIRFAX RI,LLC	5E	2.5532 Ac.	-	-	2.5532 Ac.	-	-	-	-	-	-	194	608	-	-	-	-	NO	57-2-((2))-25
006	MCKAY FAMILY INVESTMENT COMPANY,LLC	5,5E	1.0442 Ac.	2,874	-	0.9782 Ac.	1,810	-	-	-	949	949	180	1,129	-	6,424	-	10,823	NO	57-2-((2))-24A, 57-2-((2))-24B
007	BANK OF AMERICA,N.A.	5	0.4325 Ac.	767	-	0.4149 Ac.	10,008	-	447	-	-	-	-	-	-	7,049	-	-	NO	57-2-((2))-23
		5	0.5420 Ac.	693	-	0.5261 Ac.	401	-	-	-	-	1,923	1,923	1,923	-	3,688	1,537	-	NO	57-2-((2))-22
008	BURKE PETROLEUM REALTY,LLC	5	0.4204 Ac.	1,510	-	0.3857 Ac.	-	-	-	-	-	551	551	551	-	2,386	1,930	296	NO	57-2-((2))-21
009	MCKAY CHEVROLET,INC.	5,6	2.7343 Ac.	1,436	-	2.7013 Ac.	10,390	-	2,560	-	-	-	-	-	-	10,269	-	-	NO	57-2-((2))-24
010	ROBERT J.RUFFINI AND SUSAN E.RUFFINI,SUCCESSOR TRUSTEES OF THE SUSAN E.RUFFINI REVOCABLE TRUST DATED OCTOBER 10,1991 AND WALTER W.ERWIN	6	3.9805 Ac.	621	-	3.9662 Ac.	8,723	-	2,402	-	-	-	-	-	-	7,875	-	1,561	NO	57-2-((2))-27
011	FAIRFAX REGENCY,LLC	6	0.2631 Ac.	373	-	0.2545 Ac.	4,442	-	1,033	-	-	-	-	-	-	2,318	-	3,142	NO	57-2-((2))-28
		6,7	5.7719 Ac.	2,643	-	5.7112 Ac.	36,326	1,819	7,908	1,234*	-	-	-	-	-	19,933	-	5,506	NO	57-2-((2))-29
		~~7~~	~~0.130 Ac.~~	-	-	~~0.130 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-30~~
		7	0.1091 Ac.	-	-	0.1091 Ac.	879	-	361	-	-	-	-	-	-	397	-	-	NO	57-2-((2))-31
012	RPB WILLOW WOOD I LLC	7,8	0.4293 Ac.	-	-	0.4293 Ac.	9,586	140	920	-	-	-	-	-	-	2,334	-	-	NO	47-4-((2))-2-A
~~013~~	~~MGB PROPERTIES LLC~~	~~3~~	~~0.817 Ac.~~	-	-	~~0.817 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-82~~
~~014~~	~~KBL LC~~	~~3~~	~~0.566 Ac.~~	-	-	~~0.566 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-78~~
015	REZA FARNOOD AHMADI AND ANISA AHMADI	4	0.2927 Ac.	249	-	0.2870 Ac.	74	-	-	-	-	-	-	-	-	631	-	-	NO	57-2-((2))-77
016	ROBERT P.MILLER,LARRY C.MILLER,AND ELLEN MILLER	4	1.2909 Ac.	962	-	1.2688 Ac.	380	-	-	48	-	-	-	-	-	1,742	1,109	-	NO	57-2-((2))-73A
017	FXJL,L.L.C.	4,5C	0.5462 Ac.	1,861	-	0.5035 Ac.	-	-	-	-	-	-	-	-	-	1,152	1,509	-	NO	57-2-((2))-72A
018	FAIRFAX,L.L.C.	4,5,5C	1.1549 Ac.	4,769	-	1.0454 Ac.	734	-	-	-	-	4,622	4,622	4,622	-	5,780	2,999	-	NO	57-2-((2))-72B
019	UNIT OWNERS ASSOCIATION OF WARWICK PARK PROFESSIONAL CENTER,A CONDOMINIUM	5C	1.6584 Ac.	1,112	-	1.6329 Ac.	-	-	-	-	-	-	-	178	-	815	2,021	-	NO	57-2-((29))-
020	GTY-CPG (VA/DC) LEASING,INC.	5,5C	0.5019 Ac.	25	-	0.5013 Ac.	-	561	-	-	787	787	-	-	-	5	-	-	NO	57-2-((2))-C
~~021~~	~~COMMERCIAL NET LEASE REALTY,LP~~	~~5~~	~~0.929 Ac.~~	-	-	~~0.929 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-A~~
~~022~~	~~FARRISH REALTY FOUR,LLC~~	~~6~~	~~2.2957 Ac.~~	-	-	~~2.2957 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-45A~~
~~023~~	~~CARMEL LODGING,LLC~~	~~7~~	~~1.7136 Ac.~~	-	-	~~1.7136 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-40B~~
024	ARCP RL PORTFOLIO III,LLC	7,8	1.9267 Ac.	609	-	1.9127 Ac.	-	1,489	-	-	-	-	-	-	-	-	-	-	NO	57-2-((2))-40A
025	HOWARD W.SHARPE,JR.AND MARILYN A.COLLOM	8	0.8998 Ac.	1,055	-	0.8756 Ac.	-	1,022	-	-	-	-	-	-	-	-	-	-	NO	57-2-((2))-39
026	10245 FAIRFAX BOULEVARD LLC	8	3.3604 Ac.	-	-	3.3604 Ac.	-	225	-	-	-	-	-	-	-	-	-	-	NO	57-2-((2))-38
027	RPB WILLOW WOOD I LLC	8	4.4952 Ac.	-	-	4.4952 Ac.	-	452	-	-	-	-	-	-	-	143	-	-	NO	47-4-((2))-2-1
~~028~~	~~THOMAS B.HIGGENBOTTOM,FORREST S.HIGGENBOTTOM,AND KATHERINE H.BROWN~~	~~5,6~~	~~3.386 Ac.~~	-	-	~~3.386 Ac.~~	-	-	-	-	-	-	-	-	-	-	-	-	~~NO~~	~~57-2-((2))-58~~
			PROJECT TOTALS	30,381			110,101	5,708	15,631	1282	6,898	16,305	16,544	17,915	-	86,572	13,543	21,328		

*Note: City of Fairfax Water is now operated by Fairfax Water

PROJECT MANAGER Wendy Block Sanford,City of Fairfax (703) 385-7889
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DESIGNED BY Adam D.Welschenbach,P.E.,Rinker Design Assoc.,P.C.(703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Revision Data Sheet

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
04/22/2014 06/19/2014 09/15/2014 02/05/2015 10/28/2015	VA.	-	0029-151-105 P101,P102,R201,C501	1D

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

State Project: 0029-151-105,R-201
Federal Project: STP-029-9(002)
From McLean Avenue
To Eaton Place
UPC Number: 16632

ABBREVIATION LEGEND

TCE - Denotes Temporary Construction Easement
PDE - Denotes Permanent Drainage Easement
PUE - Denotes Permanent Utility Easement

04-22-2014 R/W Revision

The following revisions were made by Carolyn M.Witzig to include easement for Verizon Virginia Inc.on Parcel 007 and Parcel 008,to add proposed right of way and easement on Parcel 015,to modify the signal easement on Parcel 022,and to update property information to match plats completed for this project.The revisions completed are as follows:

Sht.1B -- Index sheet was updated to remove asterisks indicating that this sheet is not included with the plan set.
Sht.1C -- Square footage of Verizon utility easement was added to the Right of Way Data Sheet for Parcel 007 and Parcel 008.Square footage of fee taking (proposed right of way),drainage easement,and temporary easement was added for Parcel 015. Revisions were made throughout sheet to match information shown on plats completed for this project.
Sht.1D -- Revision Data sheet was added to the set.
Sht.1Q -- Limits of disturbance were updated on Parcel 015.
Sht.1Q(2) -- Limits of disturbance were updated on Parcel 022.
Sht.1R -- Limits of disturbance were updated on Parcel 015.
Sht.1R(2) -- Limits of disturbance were updated on Parcel 022.
Sht.2C,Sht.2C(1),Sht.2C(3) -- Property information was updated to match plats completed for this project.
Sht.2C(4) -- Proposed right of way and easement were added on Parcel 015,and property information was updated to match plats completed for this project.
Sht.2C(5) -- Linework for Utility Easements was turned on,the R/W Legend was revised,and property information was updated to match plats completed for this project.
Sht.2C(5C),Sht.2C(5E) -- Linework for Utility Easements was turned on,and property information was updated to match plats completed for this project.
Sht.2C(6) -- The signal easement was modified on Parcel 022,and property information was updated to match plats completed for this project.
Sht.2C(7) -- Property information was updated to match plats completed for this project.
Sht.2C(8) -- Property information was updated to match plats completed for this project.
Sht.2L -- Linework for Utility Easements was turned on.
Sht.3 -- Property information was updated to match plats completed for this project.
Sht.4 -- Proposed right of way and easement were added on Parcel 015,and property information was updated to match plats completed for this project.
Sht.5,Sht.5(1) -- Easements for Verizon Virginia Inc.were added to Parcel 007 and Parcel 008 by revising easement label "U6" (Denotes Prop.Permanent Utility Ease.for Cox,Dominion Virginia Power) to label "U4" (Denotes Prop.Perm.Utility Ease.for Cox, Dominion Virginia Power,Verizon).Easement label "U6" was removed from the R/W Legend.Property information was updated to match plats completed for this project.
Sht.5C,Sht.5E -- Property information was updated to match plats completed for this project.
Sht.6 -- The signal easement was modified on Parcel 022,and property information was updated to match plats completed for this project.
Sht.7,Sht.8 -- Property information was updated to match plats completed for this project.
Sht.10 -- Proposed right of way and easement were added on Parcel 015.
Sht.10(1) -- Linework for Utility Easements was turned on.
Sht.10(2) -- The signal easement was modified on Parcel 022.
Sht.10(3) -- Linework for Utility Easements was turned on.
Sht.11 -- The border note was removed.
Sht.11(3) -- The signal easement was modified on Parcel 022,and the border note was removed.
Sht.11(4) -- The easement labels were revised for clarity,and the border note was removed.
Sht.12 -- Proposed right of way and easement were added on Parcel 015.Proposed sign on Parcel 015 was relocated to the median.
Sht.12(1) -- Linework for Utility Easements was turned on.
Sht.12(2) -- The signal easement was modified on Parcel 022.
Sht.12(3) -- Linework for Utility Easements was turned on.
Sht.13(1) -- The signal easement was modified on Parcel 022.

06-19-2014 R/W Revision

The following revisions were made by Adam D.Welschenbach,at the request of AJ Barg with RDA.Parcel 007 had a change of ownership and property owner information was updated to reflect this change.The revisions completed are as follows:

Sht.1C -- Ownership name for Parcel 007 was updated.
Sht.1D -- Revision Data sheet was updated to reflect this revision.
Sht.2C -- Ownership name for Parcel 007 was updated.
Sht.2C(5) -- Ownership name for Parcel 007 was updated
Sht.5,Sht.5(1) -- Ownership name for Parcel 007 was updated.

09-15-2014 R/W Revision

The following revisions were made by Trieu Nguyen,at the request of Chris Calamos with RDA.Parcel 024 had a change of ownership and property owner information was updated to reflect this change.The revisions completed are as follows:

Sht.1C -- Ownership name for Parcel 024 was updated.
Sht.1D -- Revision Data sheet was updated to reflect this revision.
Sht.2C(8) -- Ownership name for Parcel 024 was updated.
Sht.7 -- Ownership name for Parcel 024 was updated.
Sht.8 -- Ownership name for Parcel 024 was updated.

02-05-2015 R/W Revision

The following revisions were made by Carolyn M.Witzig to remove proposed signal easement on Parcel 022.The proposed easement on Parcel 022 could not be used as originally intended due to existing utilities in the area.The revisions completed are as follows:

Sht.1C -- Square footage for the proposed signal easement on Parcel 022 was removed from the Right of Way Data Sheet.
Sht.1D -- Revision Data sheet was updated to reflect this revision.
Sht.6 -- The proposed signal easement was removed from Parcel 022.
Sht.11(3) -- The proposed signal easement was removed from Parcel 022.

10-28-2015 R/W Revision

The following revisions were made by Adam Welschenbach to add a waterline easement so water service could be retained for Parcel 011.The revisions completed are as follows:

Sht.1C -- Square footage for the proposed waterline easement on Parcel 011 was added to the Right of Way Data Sheet.
Sht.1D -- Revision Data sheet was updated to reflect this revision.
Sht.7 -- The proposed waterline easement was added to Parcel 011.
Sht.14(7) -- The proposed waterline easement was added to Parcel 011.

Rinker Design Associates, P.C.
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Transportation - Environmental
Right of Way Services
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9385 Discovery Boulevard Suite 200 Manassas, VA 20109 Phone: (703) 368-7373 Fax: (703) 257-5443
501 Concourse Boulevard Suite 120 Glen Allen, VA 23059 Phone: (703) 612-0665 Fax: (703) 612-0668
927 Maple Grove Drive Suite 105 Fredericksburg, VA 22407 Phone: (540) 548-4470 Fax: (540) 548-4471

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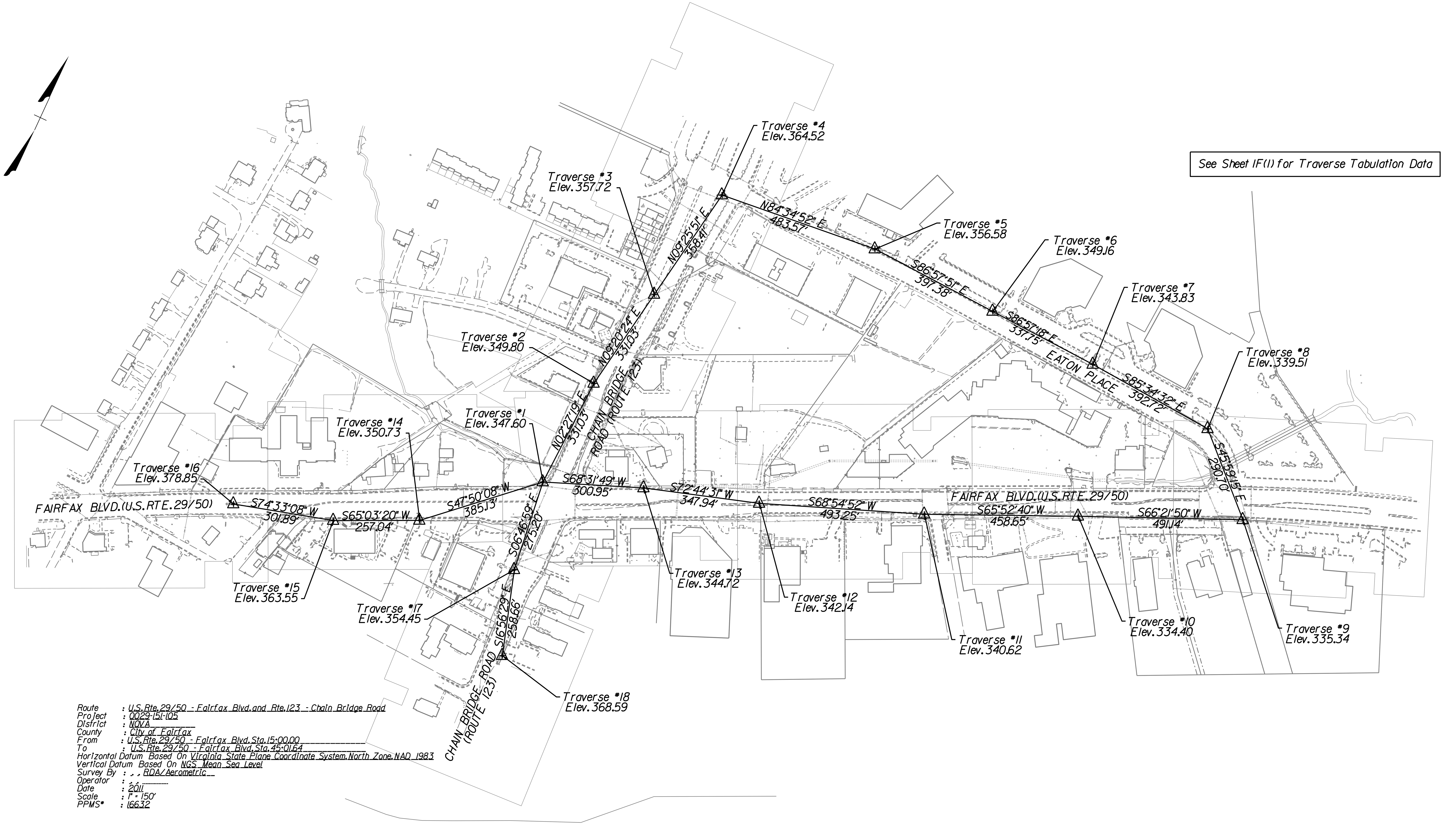
Survey Control Data

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1F

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

See Sheet 1F(1) for Traverse Tabulation Data



Route : U.S. Rte. 29/50 - Fairfax Blvd. and Rte. 123 - Chain Bridge Road
Project : 0029-151-105
District : NOVA
County : City of Fairfax
From : U.S. Rte. 29/50 - Fairfax Blvd. Sta. 15+00.00
To : U.S. Rte. 29/50 - Fairfax Blvd. Sta. 45+01.64
Horizontal Datum Based On Virginia State Plane Coordinate System, North Zone, NAD 1983
Vertical Datum Based On NGS Mean Sea Level
Survey By : , , RDA/Aerometric
Operator : , ,
Date : 2011
Scale : 1" = 150'
PPMS# : 16632

SCALE
0 150' 300'

Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning · Transportation · Environmental · Right of Way Services
Office Locations

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Survey Control Data Cont.

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1F(1)

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

Traverse Tabulation By RDA

		Project Coordinates				
Traverse Numbers	Bearing	Distance	Northing	Easting	Elevation	Description
1			6997865.132	11822437.180	347.60	
	N02°27'19" E	331.03'				
2			6998195.858	11822451.361	349.80	
	N09°20'24" E	331.03'				
3			6998512.357	11822503.416	357.72	
	N09°25'51" E	358.41'				
4			6998865.925	11822562.145	364.52	
	N84°34'52" E	483.57'				
5			6998911.579	11823043.551	356.58	
	S86°57'51" E	397.38'				
6			6998890.534	11823440.378	349.16	
	S86°57'18" E	337.75'				
7			6998872.593	11823777.654	343.83	
	S85°34'32" E	392.72'				
8			6998842.296	11824169.203	339.51	
	S45°59'15" E	290.70'				
9			6998640.310	11824378.275	335.34	
	S66°21'50" W	491.14'				
10			6998443.402	11823928.341	334.40	
	S65°52'40" W	458.65'				
11			6998255.959	11823509.742	340.62	
	S68°54'52" W	493.25'				
12			6998078.507	11823049.521	342.14	
	S72°44'31" W	347.94'				
13			6997975.283	11822717.251	344.72	
	S68°31'49" W	300.95'				
1			6997865.132	11822437.180	347.60	
	S47°50'08" W	385.13'				
14			6997606.607	11822151.710	350.73	
	S65°03'20" W	257.04				
15			6997498.202	11821918.646	363.55	
	S74°33'08" W	301.89'				
16			6997417.791	11821627.665	378.85	

Traverse Tabulation By RDA

		Project Coordinates				
Traverse Numbers	Bearing	Distance	Northing	Easting	Elevation	Description
1			6997865.132	11822437.180	347.60	
	S06°46'59" E	275.20'				
17			6997591.859	11822469.684	354.45	
	S16°56'29" W	258.66'				
18			6997344.424	11822545.056	368.59	

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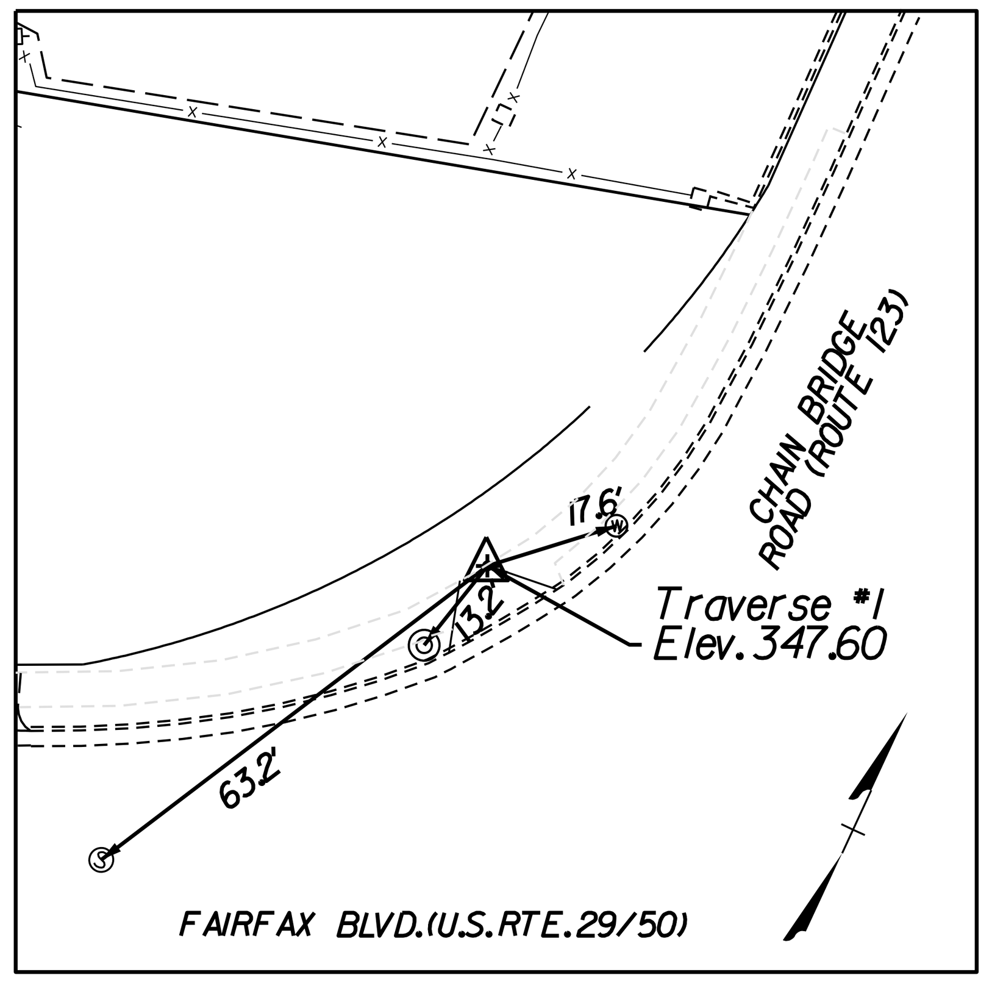
Survey Control Data Cont.

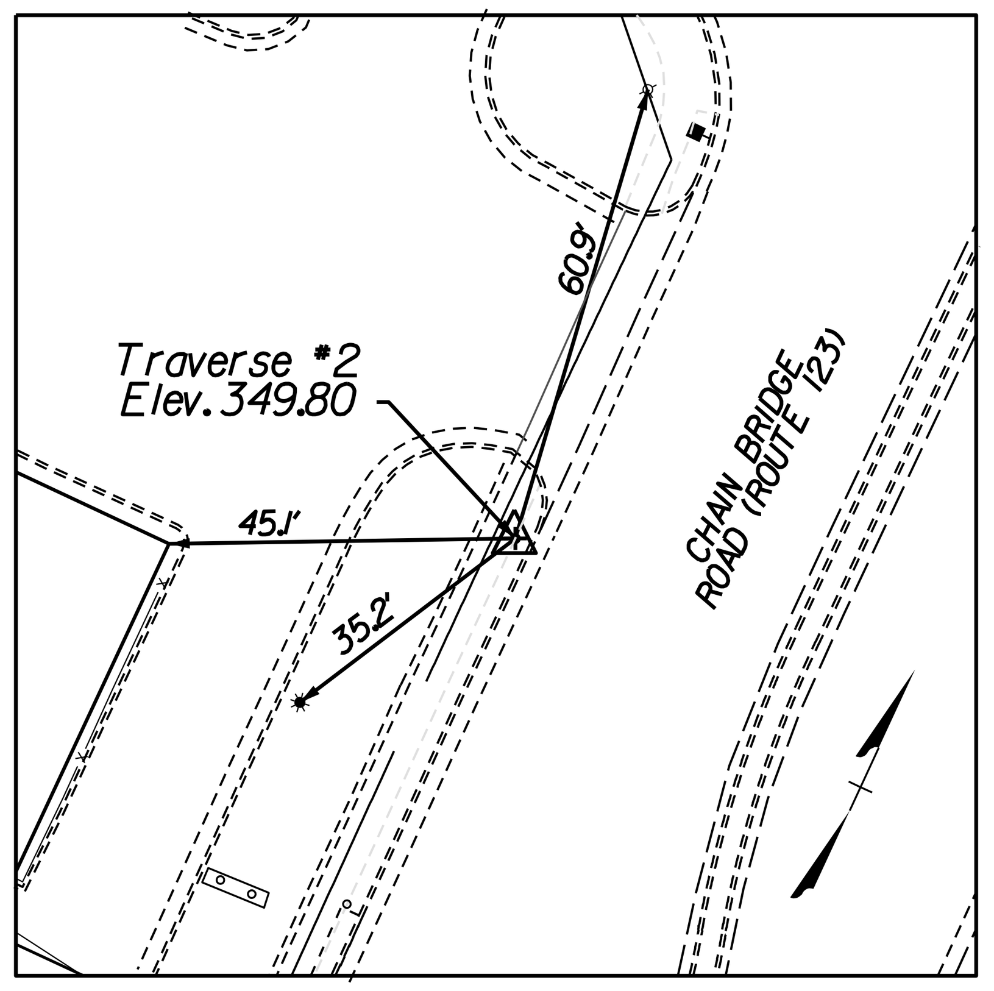
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1F(2)

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

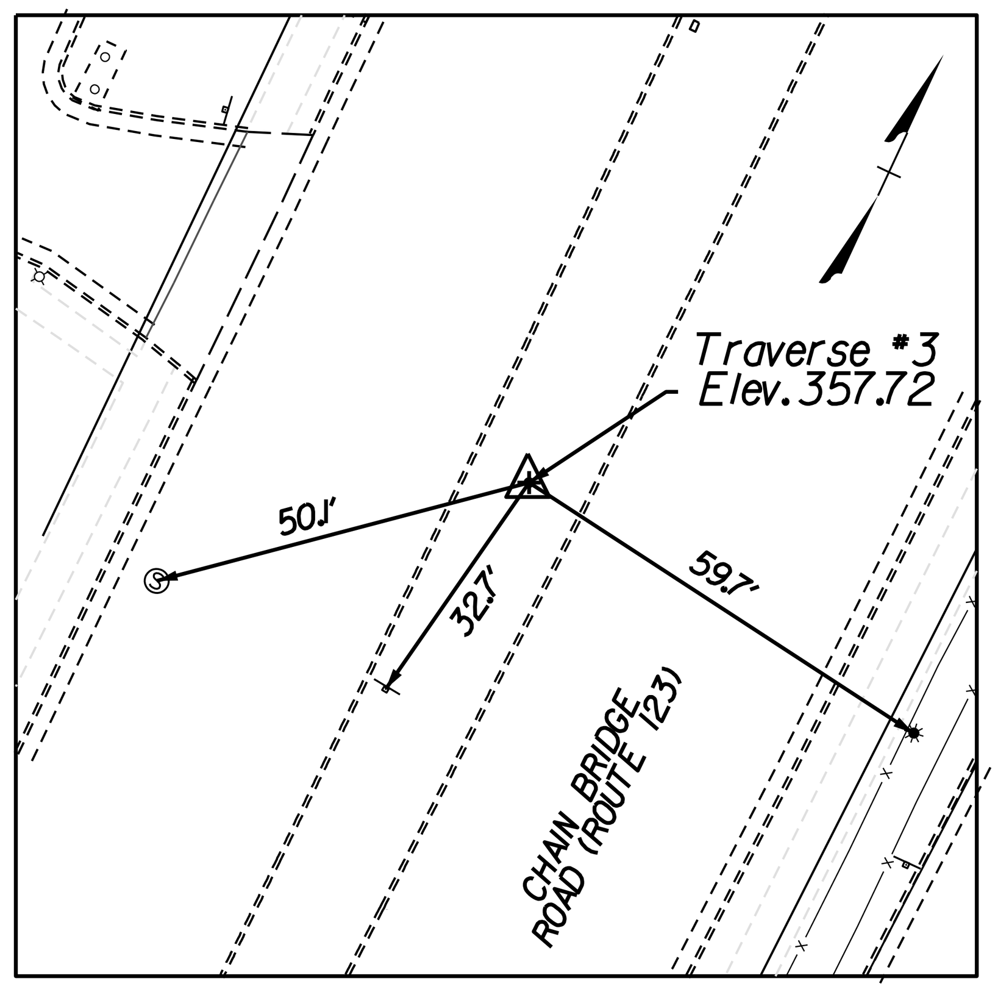
DETAILED SKETCH
(Not To Scale)



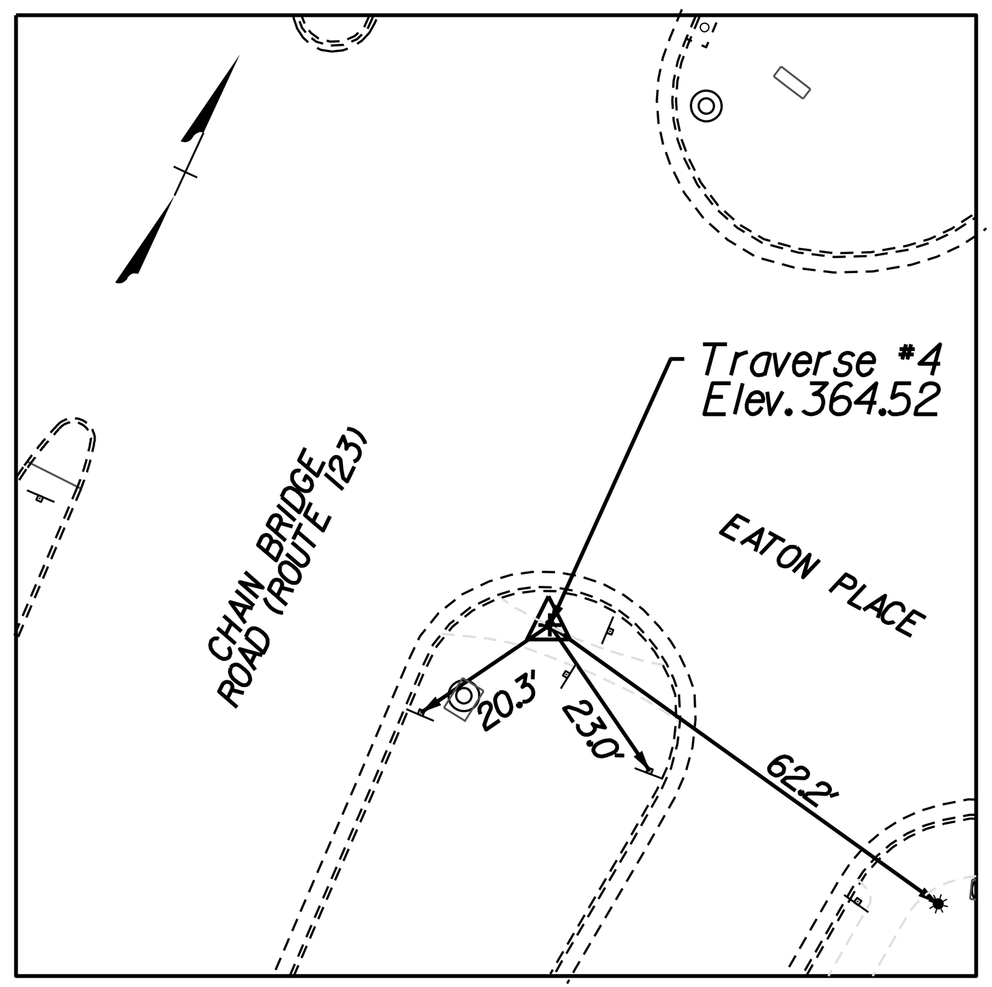
DETAILED SKETCH
(Not To Scale)



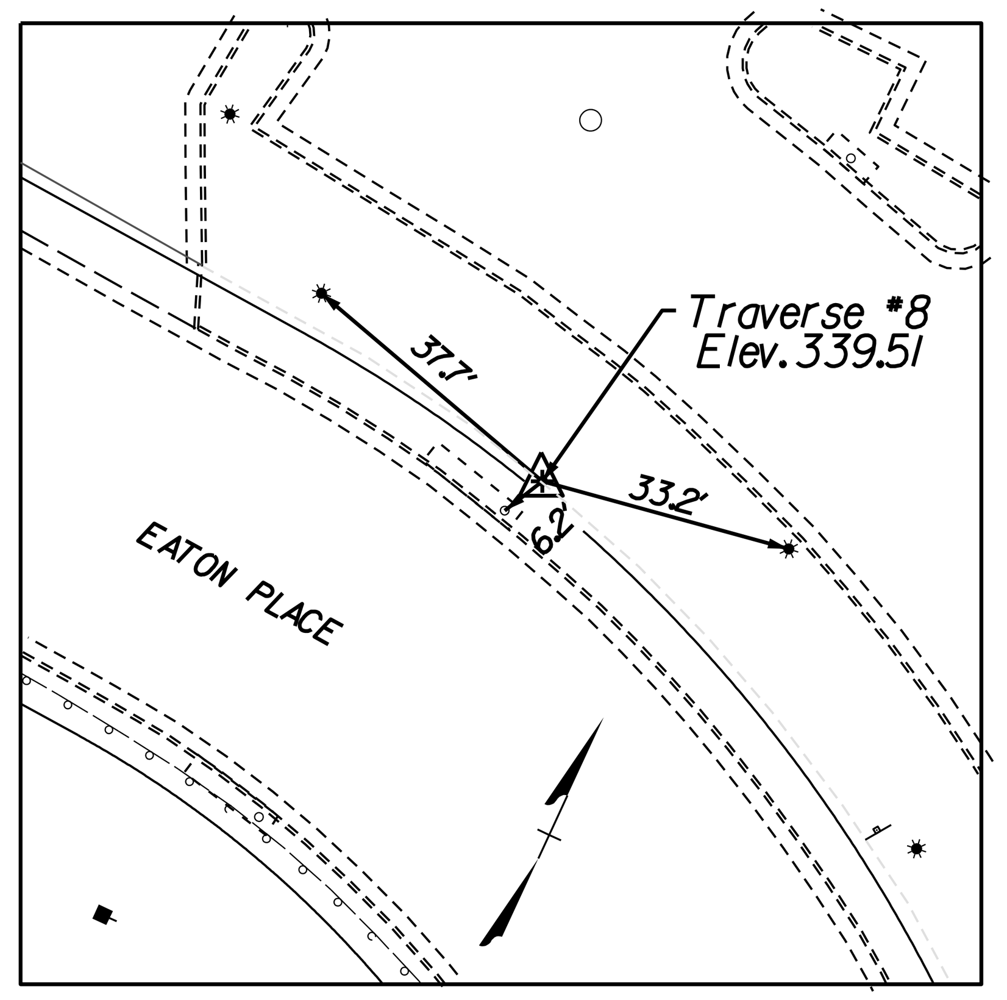
DETAILED SKETCH
(Not To Scale)



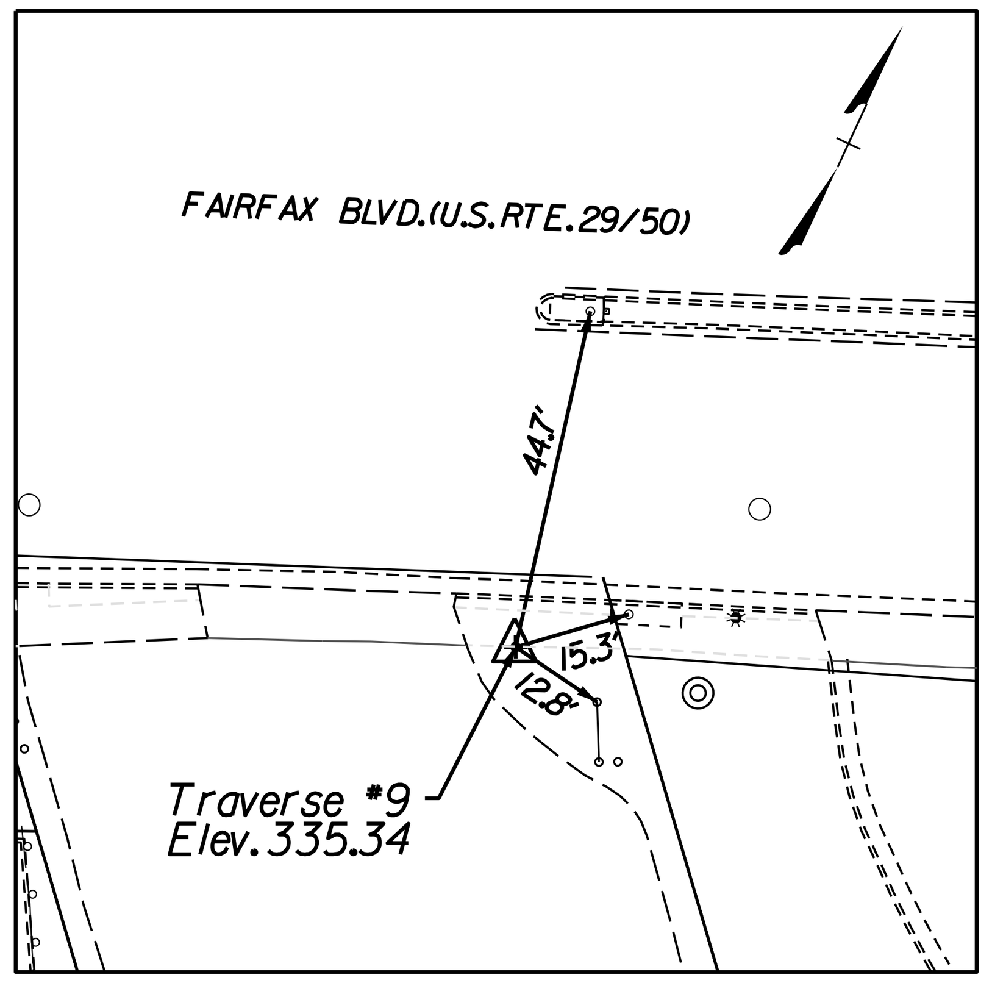
DETAILED SKETCH
(Not To Scale)



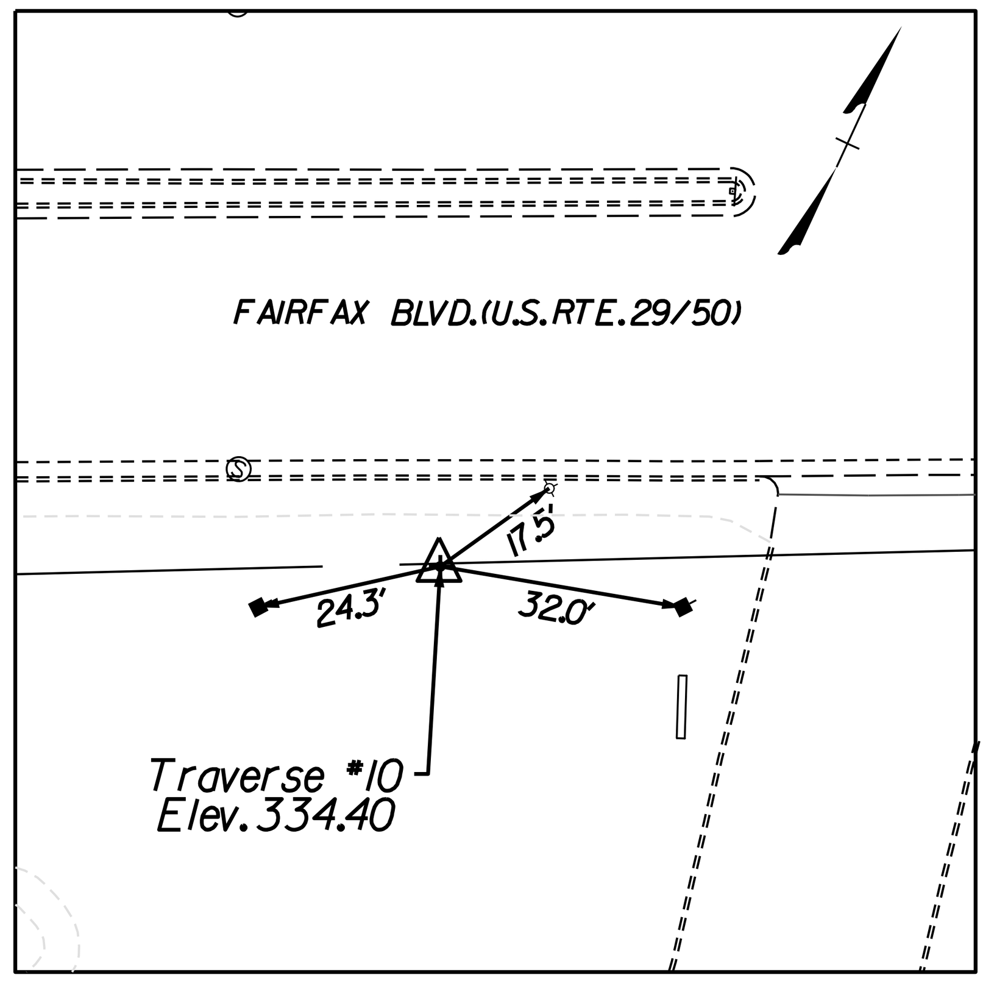
DETAILED SKETCH
(Not To Scale)



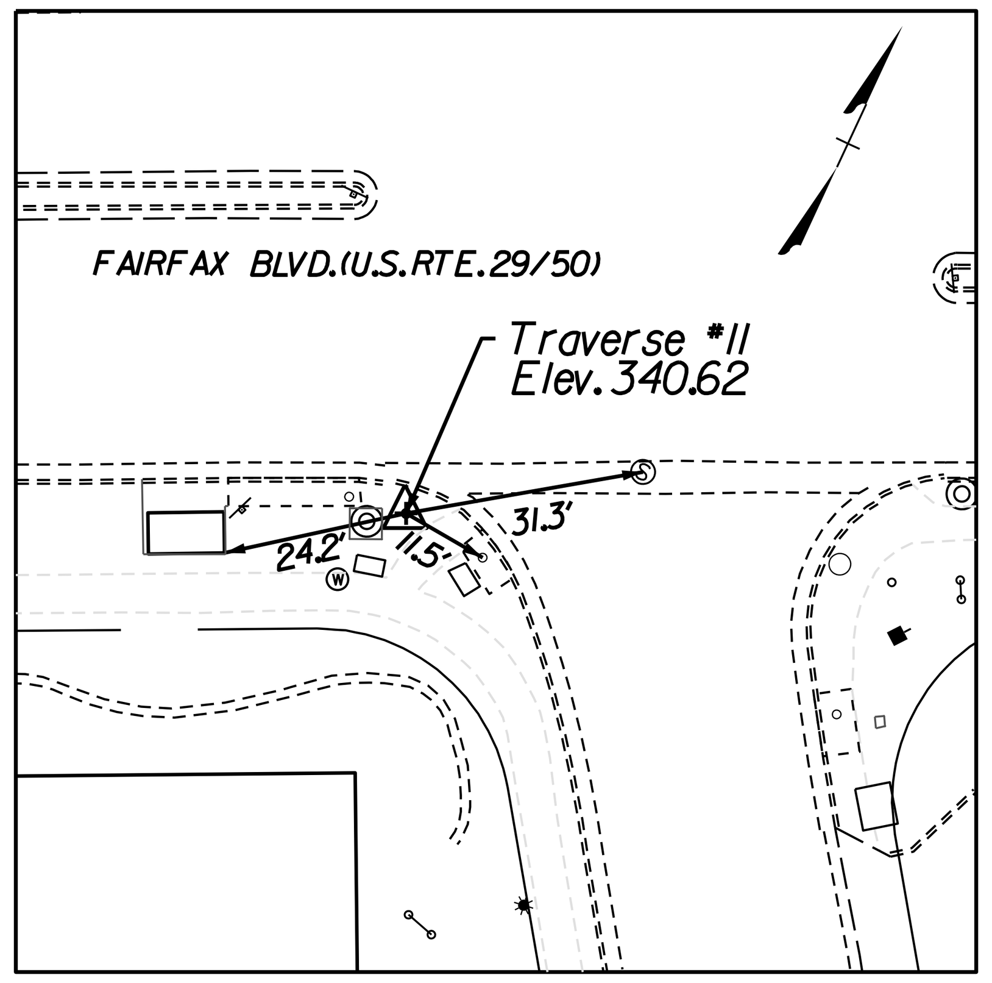
DETAILED SKETCH
(Not To Scale)



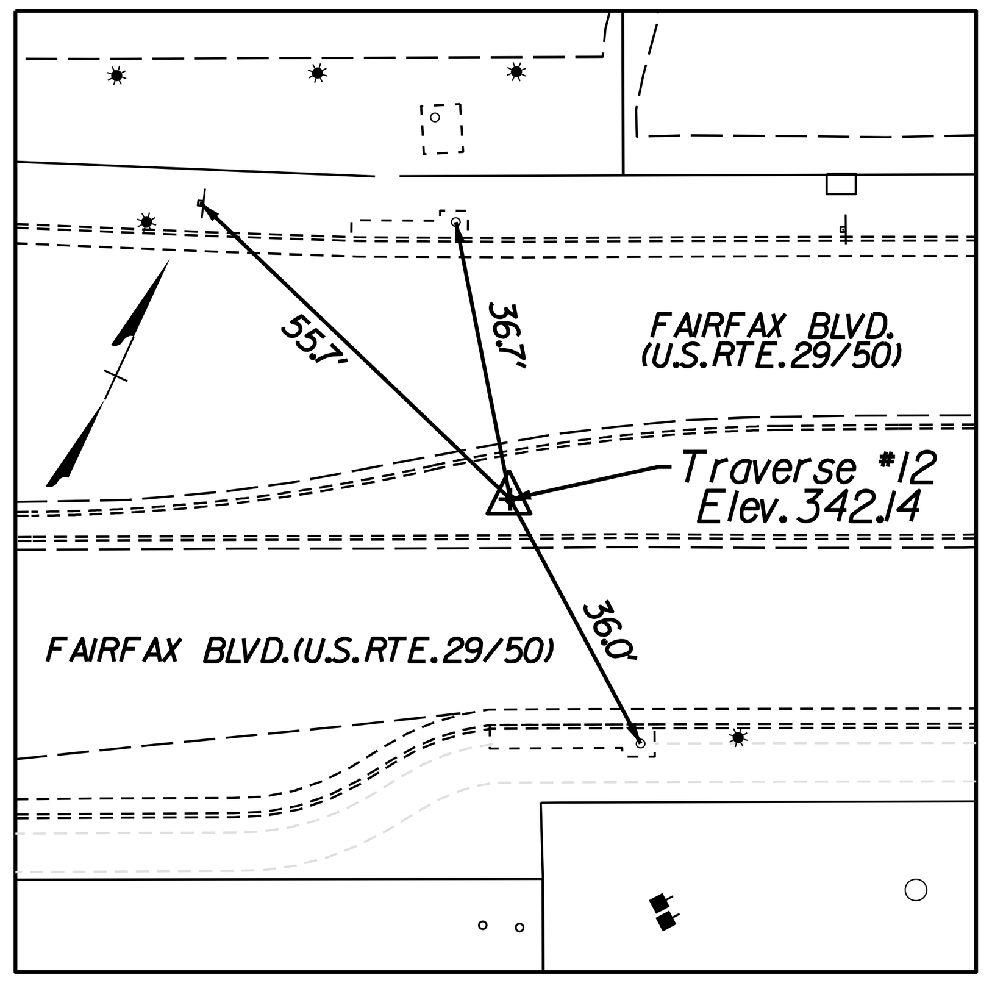
DETAILED SKETCH
(Not To Scale)



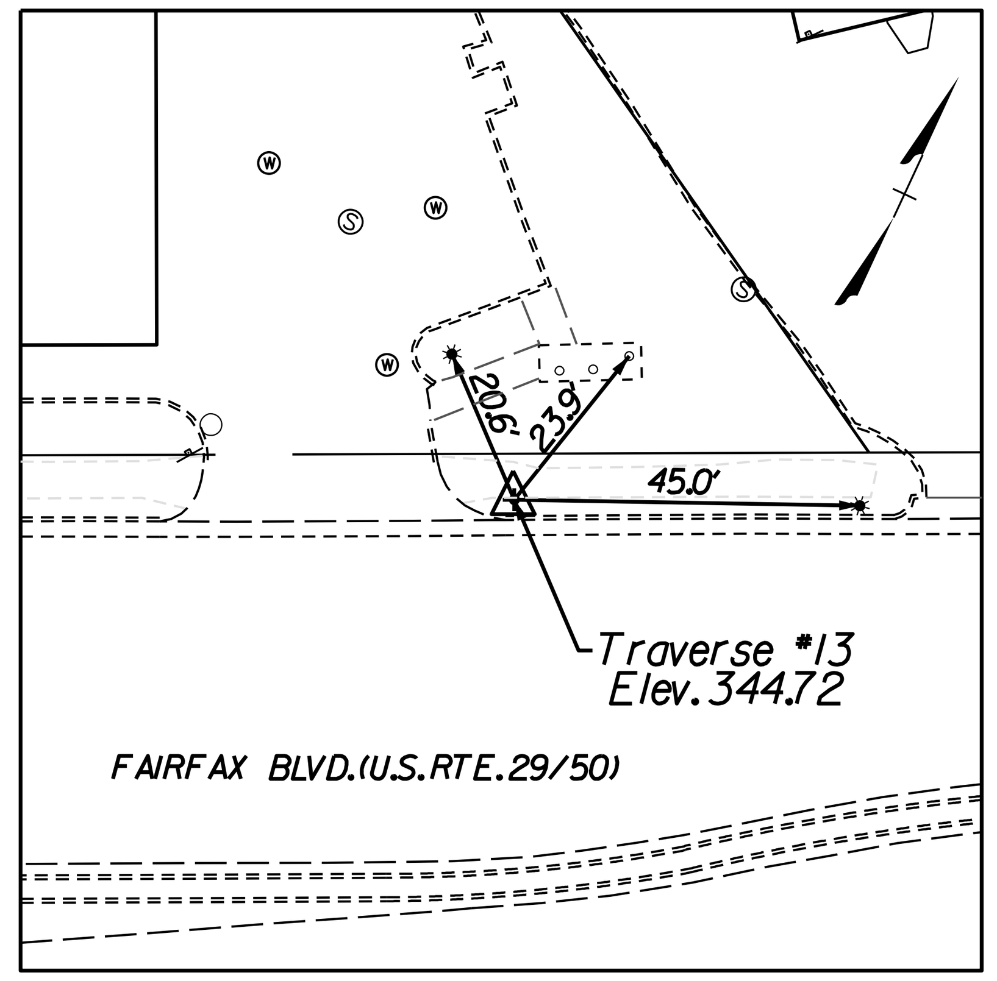
DETAILED SKETCH
(Not To Scale)



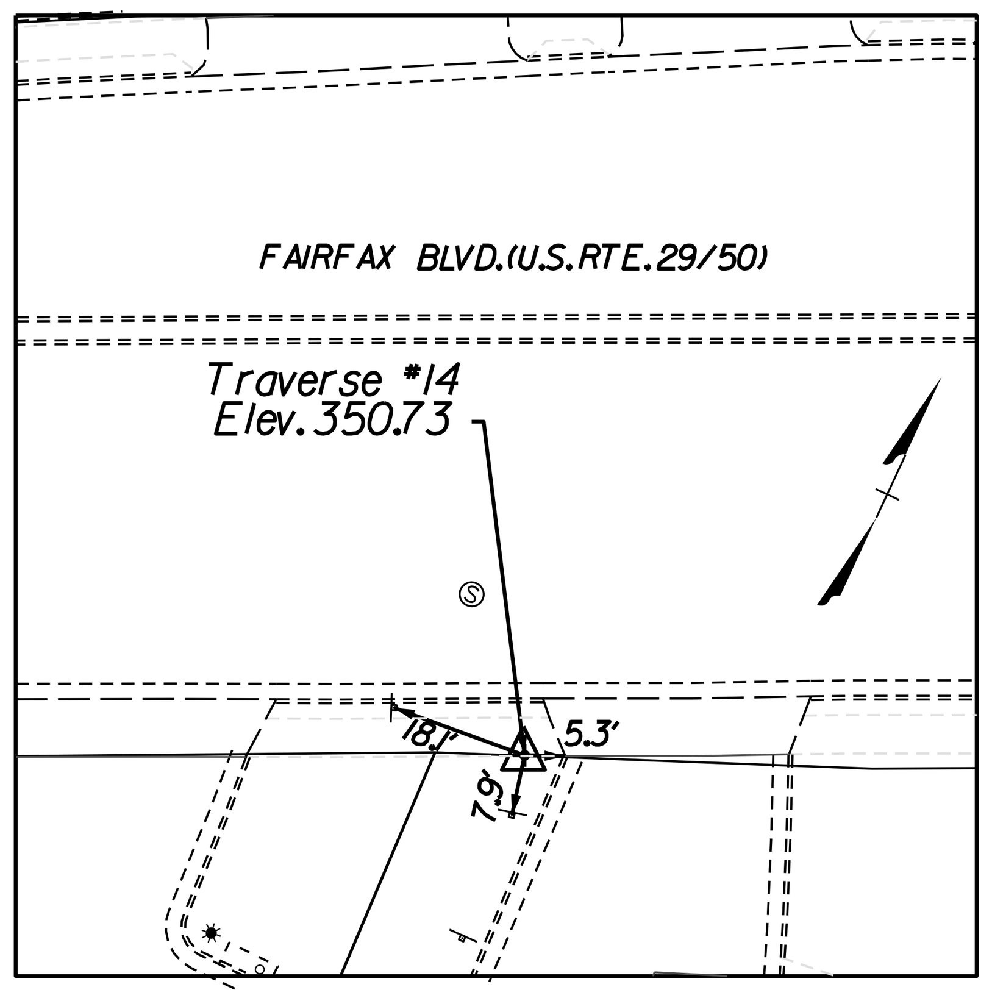
DETAILED SKETCH
(Not To Scale)



DETAILED SKETCH
(Not To Scale)



DETAILED SKETCH
(Not To Scale)



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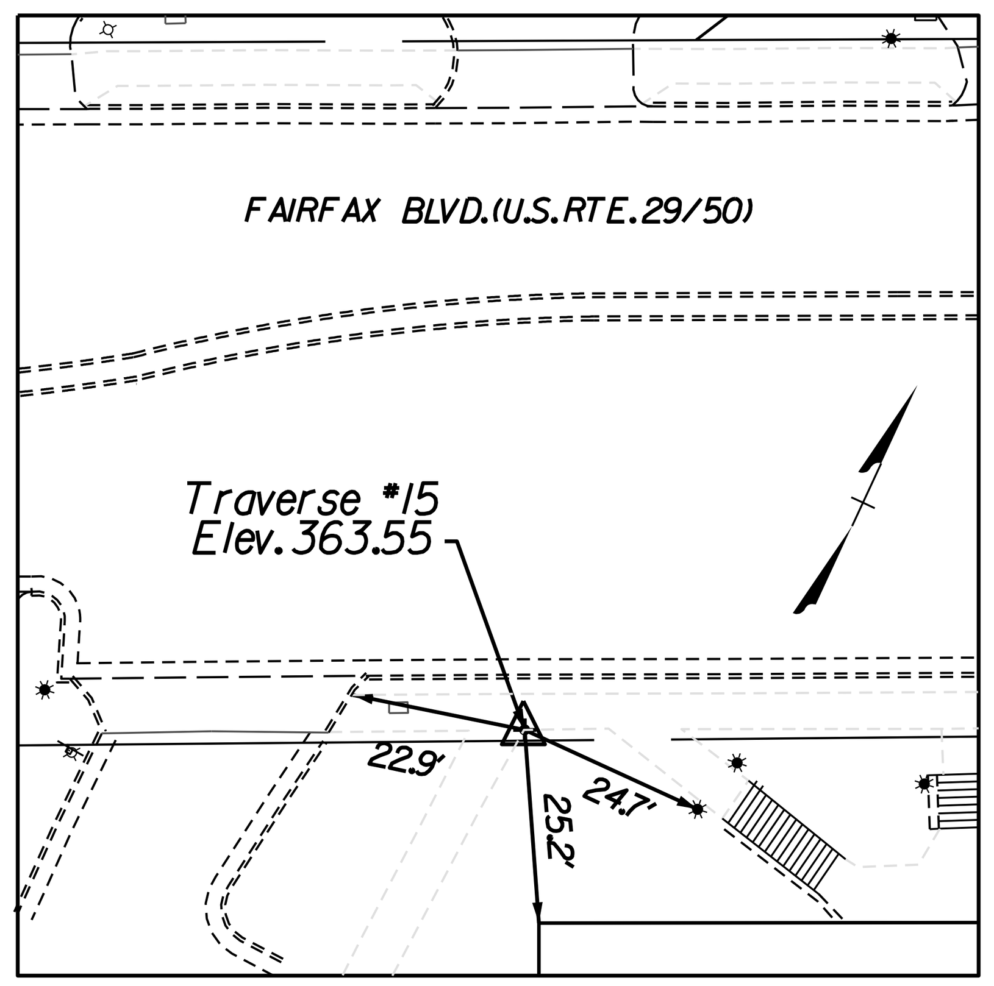
(Not To Scale)



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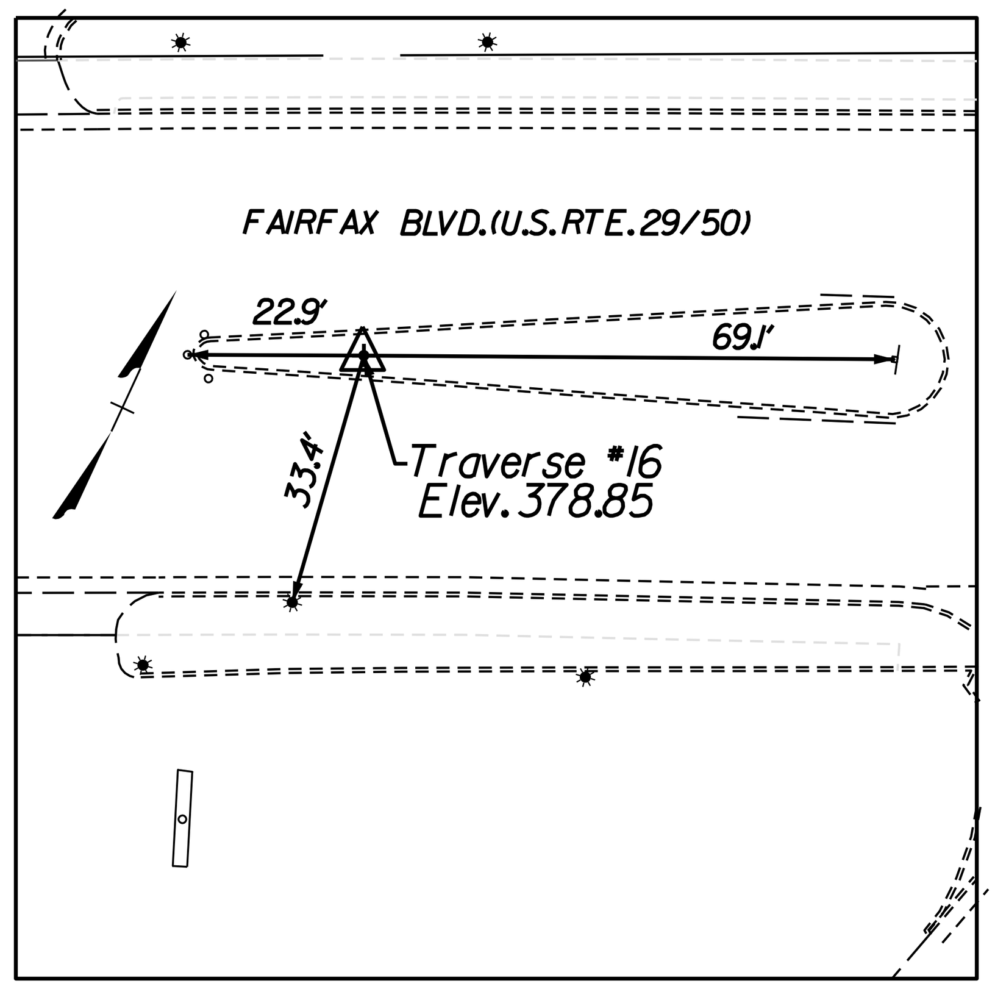
(Not To Scale)



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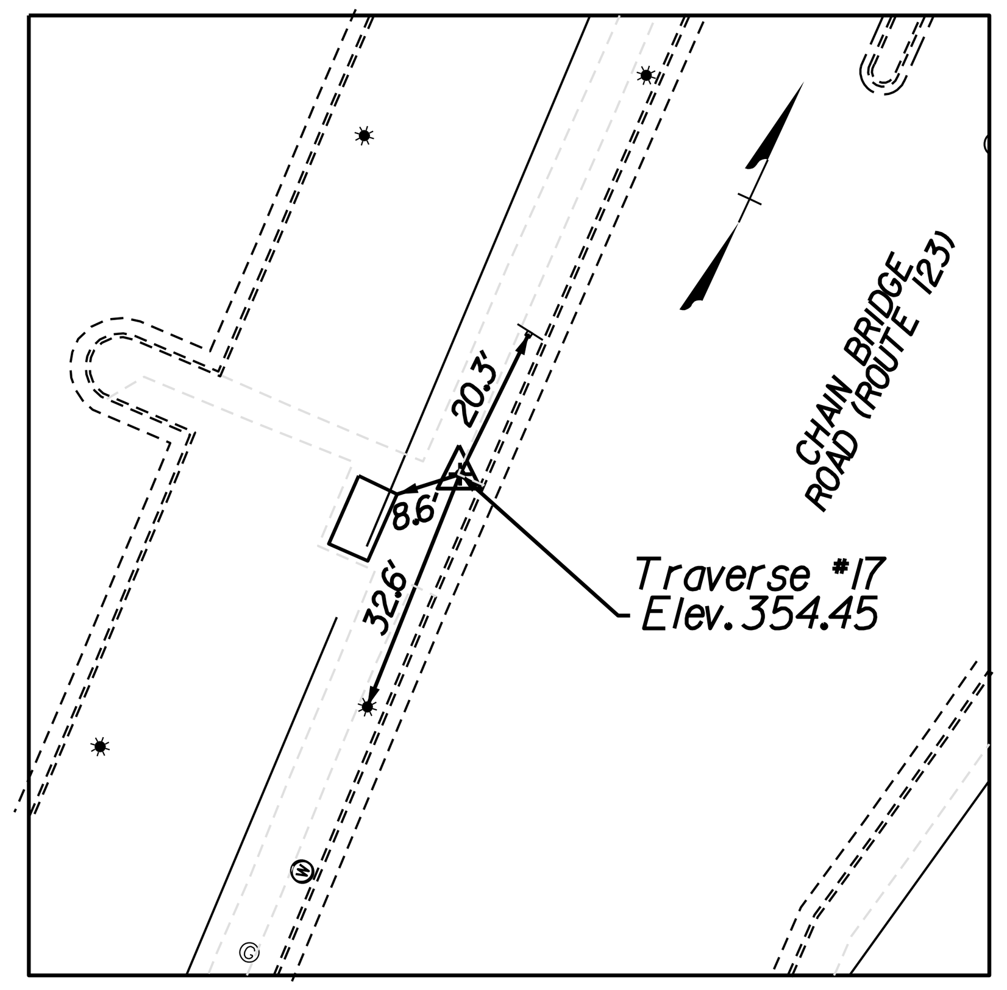
(Not To Scale)



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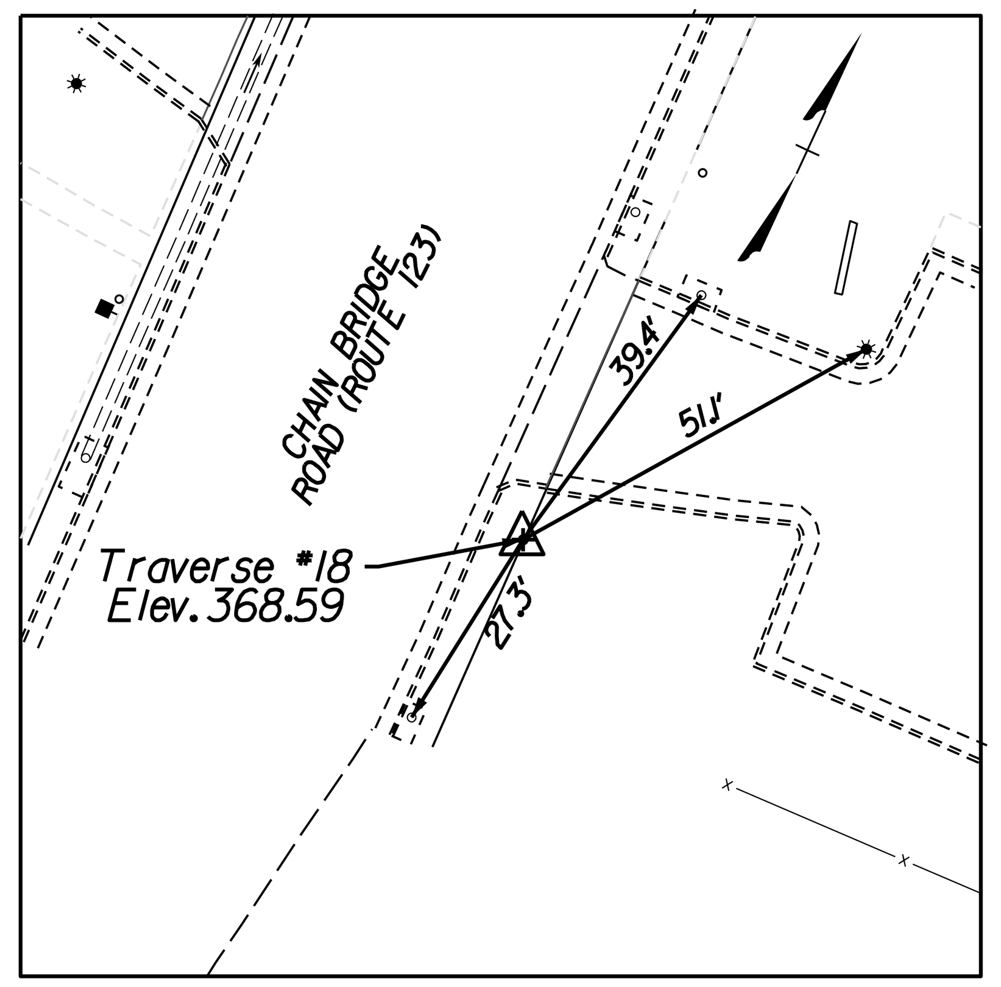

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PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Horizontal Construction Alignment Data

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101,P102,R201,C501	IG

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
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:41:06 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

Fairfax Boulevard - U.S.ROUTE 29/50

From Sta.10+00 to Sta. 50+81.48

```
<*    I DESCRIBE CHAIN RTE29

Chain RTE29 contains:
 RTE2901 CUR RTE2901 CUR RTE2902 RTE2904

Beginning chain RTE29 description
==============================================================================

Point RTE2901      N    6,997,172.9788 E    11,821,138.0628 Sta      10+00.00

Course from RTE2901 to PC RTE2901 N 62° 49' 37.6695" E Dist 292.0015

                                   Curve Data
                                  *----------*
Curve RTE2901
P.I. Station          13+86.45   N        6,997,349.4613   E        11,821,481.8611
Delta        =    2° 09' 51.6110" (RT)
Degree       =    1° 08' 45.2961"
Tangent   =          94.4482
Length       =         188.8740
Radius        =        5,000.0000
External   =          0.8920
Long Chord   =         188.8628
Mid.Ord. =         0.8918
P.C. Station          12+92.00   N        6,997,306.3290   E        11,821,397.8369
P.T. Station          14+80.88   N        6,997,389.3896   E        11,821,567.4543
C.C.             N       6,992,858.1655   E        11,823,681.2205
Back         = N   62° 49' 37.6695" E
Ahead         = N   64° 59' 29.2805" E
Chord Bear   = N   63° 54' 33.4750" E

Course from PT RTE2901 to PC RTE2902 N 64° 59' 29.2805" E Dist 2,829.5592

                                   Curve Data
                                  *----------*
Curve RTE2902
P.I. Station          46+89.82   N        6,998,745.9804   E        11,824,475.5417
Delta        =    6° 40' 50.6790" (RT)
Degree       =    0° 52' 53.3047"
Tangent   =         379.3831
Length       =         757.9064
Radius        =        6,500.0000
External   =         11.0622
Long Chord   =         757.4771
Mid.Ord. =        11.0435
P.C. Station          43+10.43   N        6,998,585.5949   E        11,824,131.7277
P.T. Station          50+68.34   N        6,998,865.2785   E        11,824,835.6799
C.C.             N       6,992,695.0035   E        11,826,879.6238
Back         = N   64° 59' 29.2805" E
Ahead         = N   71° 40' 19.9596" E
Chord Bear   = N   68° 19' 54.6200" E

Course from PT RTE2902 to RTE2904 N 71° 40' 19.9596" E Dist 13.1373

Point RTE2904          N    6,998,869.4095 E    11,824,848.1508 Sta      50+81.48

==============================================================================
Ending chain RTE29 description
```

Farr Avenue

From Sta.10+00 to Sta. 11+55.66

```
<*    I DESCRIBE CHAIN FARR

Chain FARR contains:
 FARR01 CUR FARR01 FARR03

Beginning chain FARR description
==============================================================================

Point FARR01      N    6,997,463.1065 E    11,821,725.4791 Sta      10+00.00

Course from FARR01 to PC FARR01 S 25° 00' 30.7184" E Dist 39.5562

                                   Curve Data
                                  *----------*
Curve FARR01
P.I. Station          10+54.06   N        6,997,414.1132   E        11,821,748.3340
Delta        =   39° 51' 55.4798" (RT)
Degree       =  143° 14' 22.0156"
Tangent   =          14.5056
Length       =          27.8313
Radius        =          40.0000
External   =          2.5490
Long Chord   =          27.2733
Mid.Ord. =          2.3963
P.C. Station          10+39.56   N        6,997,427.2588   E        11,821,742.2017
P.T. Station          10+67.39   N        6,997,400.0925   E        11,821,744.6146
C.C.             N       6,997,410.3487   E        11,821,705.9519
Back         = S   25° 00' 30.7184" E
Ahead         = S   14° 51' 24.7615" W
Chord Bear   = S    5° 04' 32.9784" E

Course from PT FARR01 to FARR03 S 14° 51' 24.7615" W Dist 88.2702

Point FARR03           N    6,997,314.7732 E    11,821,721.9817 Sta      11+55.66

==============================================================================
Ending chain FARR description
```

Chain Bridge Road - ROUTE 123

From Sta.60+00 to Sta. 79+43.64

```
<*    I DESCRIBE CHAIN RTE123

Chain RTE123 contains:
 RTE12301 CUR RTE12301 CUR RTE12302 CUR RTE12303 CUR RTE12304 RTE12306

Beginning chain RTE123 description
==============================================================================

Point RTE12301      N    6,997,083.0343 E    11,822,526.6863 Sta      60+00.00

Course from RTE12301 to PC RTE12301 N 2° 42' 06.7454" W Dist 165.2053

                                   Curve Data
                                  *----------*
Curve RTE12301
P.I. Station          62+45.95   N        6,997,328.7148   E        11,822,515.0923
Delta        =    1° 40' 56.1417" (LT)
Degree       =    1° 02' 30.2692"
Tangent   =          80.7486
Length       =         161.4855
Radius        =        5,500.0000
External   =          0.5927
Long Chord   =         161.4797
Mid.Ord. =         0.5927
P.C. Station          61+65.21 N        6,997,248.0560   E        11,822,518.8987
P.T. Station          63+26.69   N        6,997,409.2270   E        11,822,508.9196
C.C.             N       6,996,988.7908   E        11,817,025.0129
Back         = N    2° 42' 06.7454" W
Ahead         = N    4° 23' 02.8872" W
Chord Bear   = N    3° 32' 34.8163" W

Course from PT RTE12301 to PC RTE12302 N 4° 23' 02.8872" W Dist 13.1990

                                   Curve Data
                                  *----------*
Curve RTE12302
P.I. Station          65+17.94   N        6,997,599.9186   E        11,822,494.2998
Delta        =    3° 42' 30.2095" (RT)
Degree       =    1° 02' 30.2692"
Tangent   =         178.0522
Length       =         355.9800
Radius        =        5,500.0000
External   =          2.8813
Long Chord   =         355.9179
Mid.Ord. =         2.8798
P.C. Station          63+39.89   N        6,997,422.3874   E        11,822,507.9107
P.T. Station          66+95.87   N        6,997,777.9584   E        11,822,492.1999
C.C.             N       6,997,842.8237   E        11,827,991.8174
Back         = N    4° 23' 02.8872" W
Ahead         = N    0° 40' 32.6776" W
Chord Bear   = N    2° 31' 47.7824" W

Course from PT RTE12302 to PC RTE12303 N 0° 40' 32.6776" W Dist 109.1555

                                   Curve Data
                                  *----------*
Curve RTE12303
P.I. Station          69+14.65   N        6,997,996.7223   E        11,822,489.6197
Delta        =    2° 17' 01.2717" (RT)
Degree       =    1° 02' 30.2692"
Tangent   =         109.6236
Length       =         219.2182
Radius        =        5,500.0000
External   =          1.0924
Long Chord   =         219.2037
Mid.Ord. =         1.0922
P.C. Station          68+05.03   N        6,997,887.1063   E        11,822,490.9126
P.T. Station          70+24.24   N        6,998,106.3027   E        11,822,492.6958
C.C.             N       6,997,951.9715   E        11,827,990.5301
Back         = N    0° 40' 32.6776" W
Ahead         = N    1° 36' 28.5940" E
Chord Bear   = N    0° 27' 57.9582" E

Course from PT RTE12303 to PC RTE12304 N 1° 36' 28.5940" E Dist 258.4003

                                   Curve Data
                                  *----------*
Curve RTE12304
P.I. Station          75+27.82   N        6,998,609.6841 E        11,822,506.8263
Delta        =    3° 37' 50.0485" (LT)
Degree       =    0° 44' 26.2979"
Tangent   =         245.1793
Length       =         490.1946
Radius        =        7,736.0000
External   =          3.8843
Long Chord   =         490.1126
Mid.Ord. =         3.8823
P.C. Station          72+82.64   N        6,998,364.6013   E        11,822,499.9466
P.T. Station          77+72.84   N        6,998,854.7107   E        11,822,498.1729
C.C.             N       6,998,581.6751 E        11,814,766.9927
Back         = N    1° 36' 28.5940" E
Ahead         = N    2° 01' 21.4545" W
Chord Bear   = N    0° 12' 26.4302" W

Course from PT RTE12304 to RTE12306 N 2° 01' 21.4545" W Dist 170.8009

Point RTE12306          N    6,999,025.4051 E    11,822,492.1447 Sta      79+43.64

==============================================================================
Ending chain RTE123 description
```

Twin 8' x 8' / 12' x 6' Box Culvert

From Sta.10+00 to Sta. 32+82.43

```
<*    I Describe Chain BOXCULV2

Chain BOXCULV2 contains:
 BOXCULB01 BOXCULB02 BOXCULB03 CUR BOXCULB01 BOXCULB04 BOXCULV06 CUR BOXCULV03 -
BOXCULV07 BOXCULV08 CUR BOXCULV04 BOXCULV09 BOXCULV10 BOXCULV11

Beginning chain BOXCULV2 description
==============================================================================

Point BOXCULB01     N       6,997,894.41 E       11,822,182.68 Sta      10+00.00

Course from BOXCULB01 to BOXCULB02 N 56° 43' 56.26" E Dist 261.04

Point BOXCULB02          N       6,998,037.60 E       11,822,400.94 Sta      12+61.04

Course from BOXCULB02 to BOXCULB03 N 64° 53' 20.22" E Dist 343.68

Point BOXCULB03          N       6,998,183.45 E       11,822,712.14 Sta      16+04.72

                                   Curve Data
                                  *----------*
Curve BOXCULB01
P.I. Station          16+21.29   N          6,998,190.48   E          11,822,727.14
Delta        =    45° 00' 00.00" (RT)
Degree       =   143° 14' 22.02"
Tangent   =          16.57
Length       =          31.42
Radius        =          40.00
External   =          3.30
Long Chord   =          30.61
Mid.Ord. =          3.04
P.C. Station          16+04.72   N          6,998,183.45   E          11,822,712.14
P.T. Station          16+36.14   N          6,998,184.85   E          11,822,742.72
C.C.             N          6,998,147.23   E          11,822,729.11
Back         = N   64° 53' 20.22" E
Ahead         = S   70° 06' 39.78" E
Chord Bear   = N   87° 23' 20.22" E

Point BOXCULB04          N       6,998,184.85 E       11,822,742.72 Sta      16+36.14

Course from BOXCULB04 to BOXCULV06 S 70° 06' 39.78" E Dist 213.98

Point BOXCULV06          N       6,998,112.05 E       11,822,943.94 Sta      18+50.12

                                   Curve Data
                                  *----------*
Curve BOXCULV03
P.I. Station          18+66.64   N          6,998,106.43   E          11,822,959.48
Delta        =    44° 53' 50.94" (LT)
Degree       =   143° 14' 22.02"
Tangent   =          16.53
Length       =          31.34
Radius        =          40.00
External   =          3.28
Long Chord   =          30.55
Mid.Ord. =          3.03
P.C. Station          18+50.12   N          6,998,112.05   E          11,822,943.94
P.T. Station          18+81.46   N          6,998,113.42   E          11,822,974.46
C.C.             N          6,998,149.67   E          11,822,957.55
Back         = S   70° 06' 39.78" E
Ahead         = N   64° 59' 29.28" E
Chord Bear   = N   87° 26' 24.75" E

Point BOXCULV07          N       6,998,113.42 E       11,822,974.46 Sta      18+81.46

Course from BOXCULV07 to BOXCULV08 N 64° 59' 29.28" E Dist 1,321.06

Point BOXCULV08          N       6,998,671.90 E       11,824,171.66 Sta      32+02.52

                                   Curve Data
                                  *----------*
Curve BOXCULV04
P.I. Station          32+08.77   N          6,998,674.54   E          11,824,177.32
Delta        =    17° 44' 31.01" (LT)
Degree       =   143° 14' 22.02"
Tangent   =          6.24
Length       =          12.39
Radius        =          40.00
External   =          0.48
Long Chord   =          12.34
Mid.Ord. =          0.48
P.C. Station          32+02.52   N          6,998,671.90   E          11,824,171.66
P.T. Station          32+14.91 N          6,998,678.78   E          11,824,181.91
C.C.             N          6,998,708.15   E          11,824,154.75
Back         = N   64° 59' 29.28" E
Ahead         = N   47° 14' 58.27" E
Chord Bear   = N   56° 07' 13.77" E

Point BOXCULV09          N       6,998,678.78 E       11,824,181.91 Sta      32+14.91

Course from BOXCULV09 to BOXCULV10 N 47° 14' 58.27" E Dist 27.56

Point BOXCULV10          N       6,998,697.48 E       11,824,202.14 Sta      32+42.47

Course from BOXCULV10 to BOXCULV11 N 47° 19' 13.18" E Dist 39.96

Point BOXCULV11     N       6,998,724.57 E       11,824,231.52 Sta      32+82.43

==============================================================================
Ending chain BOXCULV2 description
```

Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning
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Office Locations

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Horizontal Construction Alignment Data Cont.

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:41:34 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	IG(1)

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

Sanitary Line 1

From Sta. 10+00 to Sta. 29+75.22

<* 1 DESCRIBE CHAIN SAN1

Chain SAN1 contains:
SAN01 SAN02 SAN03 SAN04 SAN05 SAN06 SAN07 SAN08 SAN09 SAN10

Beginning chain SAN1 description
==

Point SAN01 N 6,998,012.6775 E 11,822,732.8175 Sta 10+00.00

Course from SAN01 to SAN02 N 62° 45' 21.5289" E Dist 96.5900

Point SAN02 N 6,998,056.8946 E 11,822,818.6923 Sta 10+96.59

Course from SAN02 to SAN03 N 22° 36' 16.9794" E Dist 114.9354

Point SAN03 N 6,998,163.0004 E 11,822,862.8702 Sta 12+11.53

Course from SAN03 to SAN04 S 70° 06' 39.7820" E Dist 104.5273

Point SAN04 N 6,998,127.4405 E 11,822,961.1628 Sta 13+16.05

Course from SAN04 to SAN05 N 64° 59' 29.2802" E Dist 69.0701

Point SAN05 N 6,998,156.6401 E 11,823,023.7572 Sta 13+85.12

Course from SAN05 to SAN06 N 64° 59' 29.2805" E Dist 375.0000

Point SAN06 N 6,998,315.1725 E 11,823,363.5990 Sta 17+60.12

Course from SAN06 to SAN07 N 64° 59' 29.2805" E Dist 400.0000

Point SAN07 N 6,998,484.2738 E 11,823,726.0969 Sta 21+60.12

Course from SAN07 to SAN08 N 64° 59' 29.2807" E Dist 139.3058

Point SAN08 N 6,998,543.1658 E 11,823,852.3421 Sta 22+99.43

Course from SAN08 to SAN09 N 64° 59' 29.2804" E Dist 346.9782

Point SAN09 N 6,998,689.8519 E 11,824,166.7893 Sta 26+46.41

Course from SAN09 to SAN10 N 37° 31' 55.8675" E Dist 328.8116

Point SAN10 N 6,998,950.6033 E 11,824,367.1036 Sta 29+75.22

==
Ending chain SAN1 description

Sanitary Line 2

From Sta. 10+00 to Sta. 22+99.43

<* 2 DESCRIBE CHAIN SAN2

Chain SAN2 contains:
SAN13 SAN12 SAN11 SAN08

Beginning chain SAN2 description
==

Point SAN13 N 6,998,443.8649 E 11,823,899.0706 Sta 10+00.00

Course from SAN13 to SAN12 N 24° 52' 03.5577" W Dist 60.3917

Point SAN12 N 6,998,498.6573 E 11,823,873.6744 Sta 10+60.39

Course from SAN12 to SAN11 N 30° 09' 33.9251" W Dist 9.5551

Point SAN11 N 6,998,506.9189 E 11,823,868.8739 Sta 10+69.95

Course from SAN11 to SAN08 N 24° 31' 01.8041" W Dist 39.8389

Equation: Sta 11+09.79 (BK) = Sta 22+99.43 (AH) ---------------- End Region 1 / Begin Region 2

Point SAN08 N 6,998,543.1658 E 11,823,852.3421 Sta 22+99.43

==
Ending chain SAN2 description

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc. P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Horizontal Construction Alignment Data Cont.

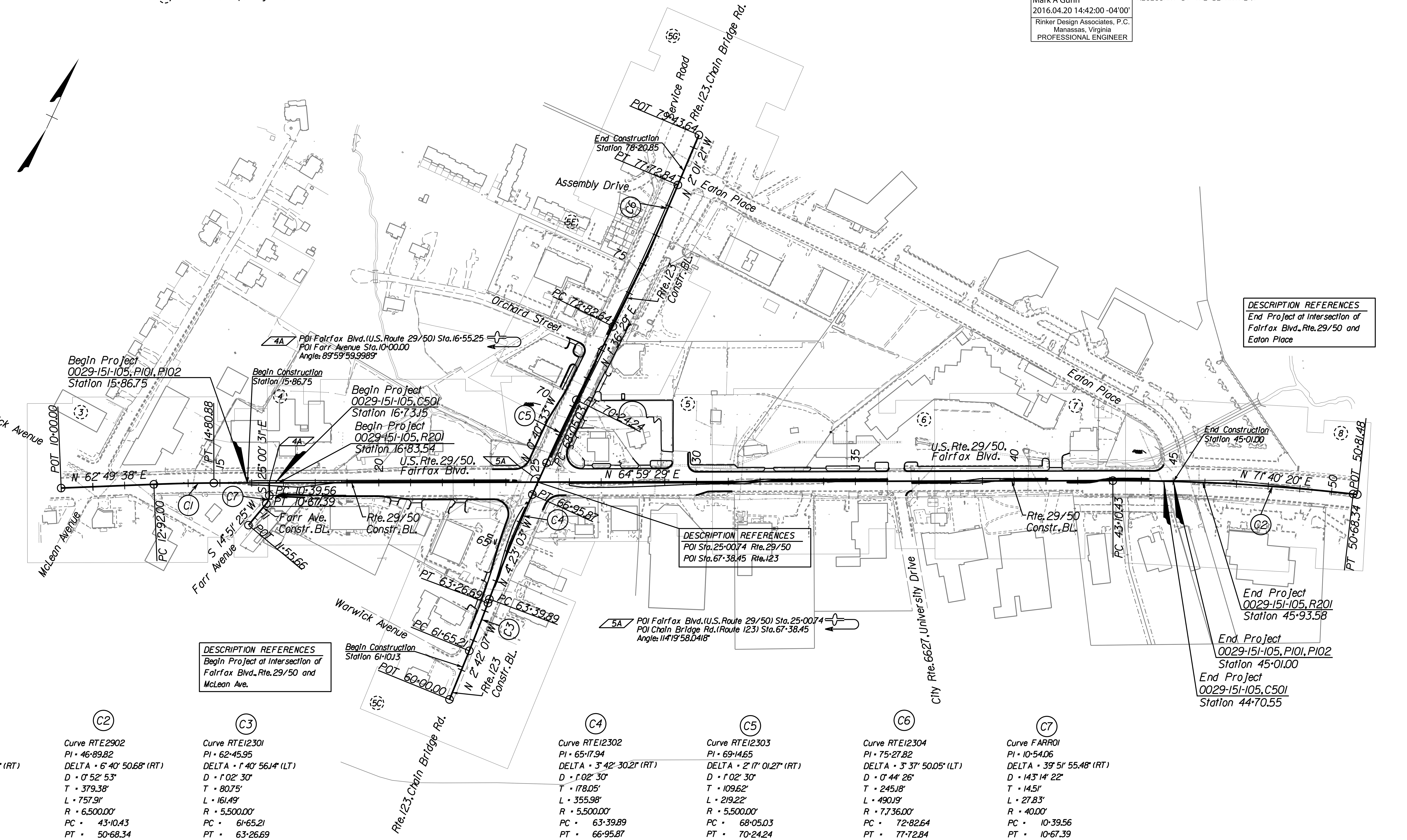
(Graphical Representation)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:42:00 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(1A)

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

Note: (X) Refers to corresponding sheet number.



	C1	C2	C3	C4	C5	C6	C7
Curve	RTE2901	RTE2902	RTE12301	RTE12302	RTE12303	RTE12304	FARR01
PI	13+86.45	46+89.82	62+45.95	65+17.94	69+14.65	75+27.82	10+54.06
DELTA	2° 09' 51.61" (RT)	6° 40' 50.68" (RT)	1° 40' 56.14" (LT)	3° 42' 30.21" (RT)	2° 17' 01.27" (RT)	3° 37' 50.05" (LT)	39° 51' 55.48" (RT)
D	1° 08' 45"	0° 52' 53"	1° 02' 30"	1° 02' 30"	1° 02' 30"	0° 44' 26"	143° 14' 22"
T	94.45'	379.38'	80.75'	178.05'	109.62'	245.18'	14.51'
L	188.87'	757.91'	161.49'	355.98'	219.22'	490.19'	27.83'
R	5,000.00'	6,500.00'	5,500.00'	5,500.00'	5,500.00'	7,736.00'	40.00'
PC	12+92.00	43+10.43	61+65.21	63+39.89	68+05.03	72+82.64	10+39.56
PT	14+80.88	50+68.34	63+26.69	66+95.87	70+24.24	77+72.84	10+67.39
V	35 MPH (Posted)	35 MPH (Posted)	30 MPH (Posted)	30 MPH (Posted)	30 MPH (Posted)	30 MPH (Posted)	Match Ex.
E	Match Ex.	Match Existing	-2.0% (U.L.S.)	-2.0% (U.L.S.)	-2.0% (U.L.S.)	-2.0% (U.L.S.)	Match Ex.

SCALE 0 150' 300'

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning • Transportation • Environmental • Right of Way Services
Office Locations

4/20/2016

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

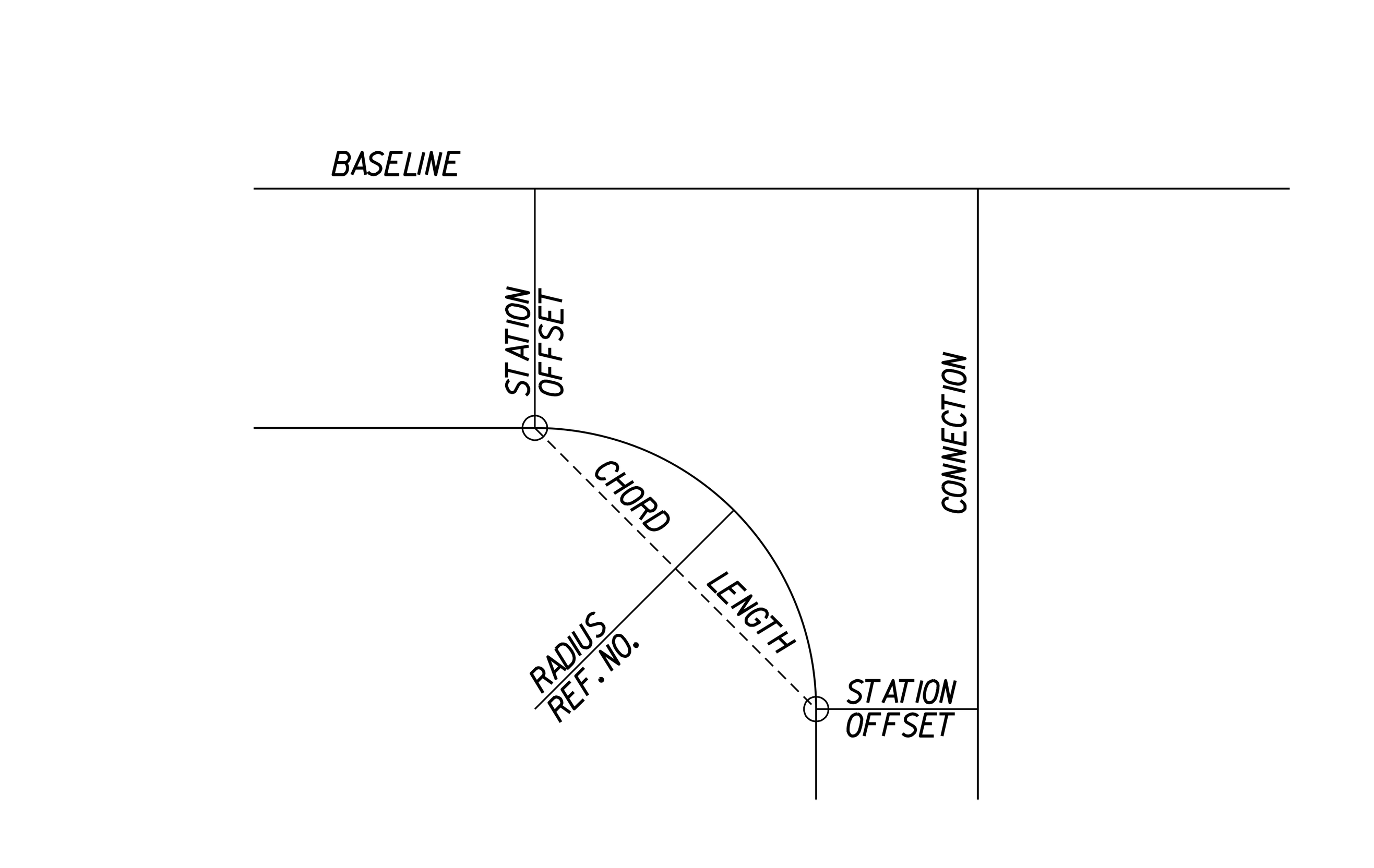
Radial Offset/Bullet Nose Data Summary

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:42:23 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(2)

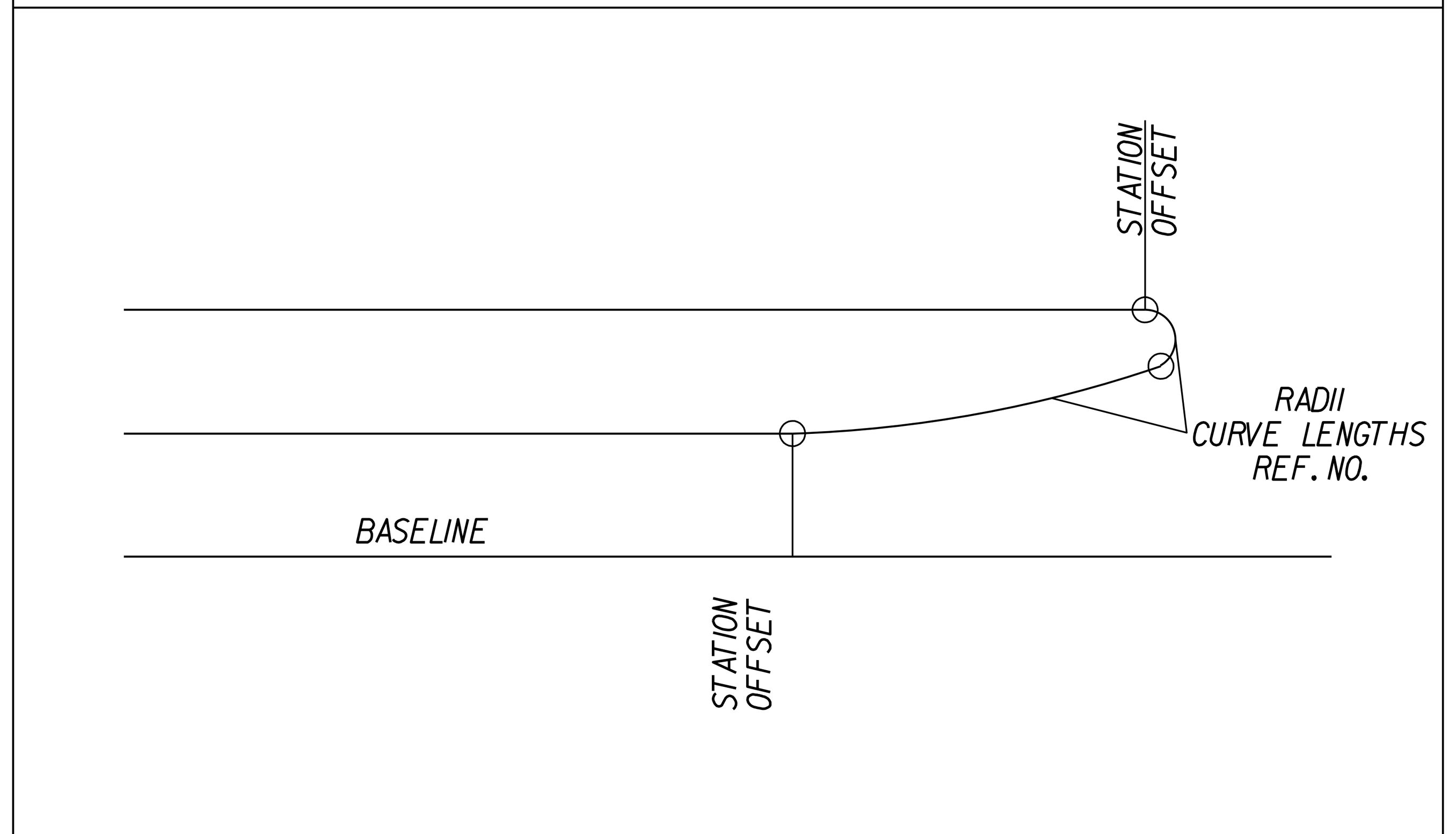
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

RADIAL OFFSETS



LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH (RC)	CHORD LENGTH	CURVE LENGTH (L)
SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET
4-1	16+99.31	36.46' Rt	16+78.25	45.74' Rt	25.00	23.02	23.92
4-2	17+40.06	13.77' Rt	17+56.88	13.23' Rt	100.00	16.83	16.85
4-3	18+18.10	51.48' Rt	18+17.30	53.65' Rt	5.00	2.31	2.34
4-4	20+95.24	79.82' Rt	20+89.06	82.44' Rt	5.00	6.72	7.37
4-5	21+35.27	80.05' Rt	21+37.29	84.89' Rt	7.00	5.24	5.37
4-6	16+88.04	43.25' Rt	16+84.46	44.44' Rt	5.00	3.78	3.88
4-7	22+30.35	75.85' Rt	22+24.52	77.39' Rt	5.00	6.03	6.47
4-8	22+17.31	94.25' Rt	22+20.07	100.35' Rt	5.00	6.70	7.34
4-9	22+71.18	88.23' Rt	22+77.02	94.34' Rt	6.00	8.45	9.37
5-1	28+94.80	96.35' Lt	28+89.33	102.17' Lt	6.00	7.33	8.74
5-2	29+24.00	93.78' Lt	29+27.27	96.78' Lt	3.00	4.43	4.99
5-3	28+69.64	186.74' Lt	28+66.22	188.03' Lt	2.00	3.66	4.61
5-4	28+46.05	202.01' Lt	28+43.26	203.59' Lt	2.00	3.21	3.73
5-5	29+27.94	252.72' Lt	29+22.93	257.76' Lt	5.00	7.11	7.91
5-8	71+51.42	255.59' Rt	71+48.74	254.70' Rt	2.00	2.83	3.14
5-9	71+48.50	249.78' Rt	71+47.61	252.47' Rt	2.00	2.83	3.14
5-10	70+92.52	134.04' Rt	70+95.21	134.92' Rt	2.00	2.83	3.14
5-11	70+89.82	128.68' Rt	70+90.71	125.99' Rt	2.00	2.83	3.14
5-12	23+61.87	54.50' Rt	65+94.11	41.57' Lt	45.00	74.08	87.02
5-16	71+03.57	182.01' Rt	70+86.25	213.86' Rt	39.00	36.25	37.70
5-17	70+91.13	149.06' Rt	71+03.57	182.01' Rt	48.00	35.22	36.06
5-18	70+45.81	139.89' Rt	70+91.13	149.06' Rt	39.00	46.24	49.50
5-19	29+98.02	42.86' Rt	30+05.69	41.69' Rt	25.00	7.76	7.79
5-20	30+40.08	31.84' Rt	30+32.96	33.01' Rt	25.00	7.22	7.24
5-21	26+38.39	43.50' Lt	68+76.97	43.50' Rt	45.00	75.94	90.39
5-25	29+00.37	43.50' Lt	29+23.79	59.75' Lt	25.00	28.51	30.33
5-26	29+99.86	32.50' Lt	29+74.86	57.21' Lt	25.00	35.15	38.98
5-28	68+88.48	53.00' Rt	68+85.45	56.00' Rt	3.00	4.24	4.71
5-29	26+47.39	66.88' Lt	26+46.21	70.11' Lt	5.00	3.44	3.51
5-30	26+71.39	53.00' Lt	26+76.39	58.00' Lt	5.00	7.07	7.85
5-31	27+30.06	53.00' Lt	27+25.06	58.00' Lt	5.00	7.07	7.85
5-32	27+60.22	59.81' Lt	27+59.93	66.98' Lt	4.09	7.64	9.85
5-33	28+18.91	53.02' Lt	28+18.35	54.41' Lt	2.00	1.50	1.54
5-34	28+54.91	62.04' Lt	28+59.96	67.04' Lt	5.00	7.10	7.90
5-35	29+23.79	59.75' Lt	29+19.15	66.50' Lt	5.00	8.19	9.60
5-36	29+74.49	89.66' Lt	29+80.49	89.73' Lt	3.00	6.00	9.42
5-37	29+90.80	53.00' Lt	29+80.80	62.88' Lt	10.00	14.06	15.59
5-38	24+27.66	42.20' Lt	67+92.51	54.49' Lt	50.00	54.40	57.52
5-39	25+69.77	42.50' Rt	66+82.69	51.00' Rt	50.00	54.06	57.11
5C-2	62+97.10	52.58' Lt	63+01.31	46.21' Lt	5.00	7.62	8.66
5C-3	63+32.47	51.86' Lt	63+26.86	47.16' Lt	5.00	7.32	8.21
5C-4	65+20.06	74.51' Lt	65+24.15	78.45' Lt	4.00	5.72	6.37
5C-5	65+25.13	78.42' Lt	65+28.93	74.38' Lt	4.00	5.59	6.18
5C-6	65+05.43	46.08' Lt	65+07.48	49.19' Lt	3.00	3.73	4.03
5E-1	71+64.11	43.50' Lt	71+89.07	69.89' Lt	25.00	36.32	40.66
5E-2	73+01.04	43.52' Rt	73+14.02	49.19' Rt	18.00	14.24	14.64
5E-3	71+71.85	2.00' Lt	71+43.66	3.50' Rt	75.00	28.72	28.90
5E-4	72+00.04	7.50' Lt	71+71.85	2.00' Lt	75.00	28.72	28.90
5E-9	71+09.77	64.15' Lt	71+20.04	54.15' Lt	10.00	14.33	15.98
5E-10	71+64.10	77.35' Lt	71+50.04	62.38' Lt	15.00	20.54	22.63
5E-11	70+79.46	56.65' Rt	70+76.76	61.08' Rt	5.00	5.19	5.45
5E-12	71+36.41	55.71' Rt	71+41.14	60.70' Rt	5.00	6.87	7.58
5E-13	71+06.35	120.36' Rt	71+03.67	119.47' Rt	2.00	2.83	3.14
5E-14	71+09.05	125.72' Rt	71+08.16	128.41' Rt	2.00	2.83	3.14
5E-15	71+62.39	99.56' Lt	71+54.88	105.91 Lt	7.00	9.83	10.90
6-1	31+18.27	53.00' Lt	31+21.85	51.49' Lt	5.00	3.89	3.99
6-2	31+30.76	44.50' Lt	31+27.18	46.01' Lt	5.00	3.89	3.99
6-3	32+12.44	44.50' Lt	32+14.94	42.00' Lt	2.50	3.54	3.93
6-4	32+45.44	44.50' Lt	32+42.94	42.00' Lt	2.50	3.54	3.93
6-5	33+57.03	44.50' Lt	33+59.53	42.00' Lt	2.50	3.54	3.93
6-6	34+10.03	48.50' Lt	34+07.53	46.00' Lt	2.50	3.54	3.93
6-7	35+11.28	48.50' Lt	35+13.78	46.00' Lt	2.50	3.54	3.93
6-8	35+66.78	60.06' Lt	35+61.78	55.06' Lt	5.00	7.07	7.85
6-9	35+99.62	60.06' Lt	36+04.62	55.06' Lt	5.00	7.07	7.85
6-10	35+94.62	32.50' Lt	36+04.62	42.50' Lt	10.00	14.14	15.71
6-11	36+64.62	32.50' Lt	36+54.62	42.50' Lt	10.00	14.14	15.71
6-12	36+64.62	60.00' Lt	36+54.62	50.00' Lt	10.00	14.14	15.71
6-13	36+90.87	60.00' Lt	36+95.87	55.00' Lt	5.00	7.07	7.85
6-16	36+78.39	31.32' Rt	36+59.80	47.28' Rt	18.98	24.50	26.63
6-17	34+20.99	156.86' Lt	34+24.03	154.47' Lt	2.00	3.86	5.23
7-1	40+96.48	71.50' Lt	40+88.48	63.50' Lt	8.00	11.31	12.57
7-2	40+98.69	71.50' Lt	41+10.69	59.50' Lt	12.00	16.97	18.85
7-3	41+50.69	50.97' Lt	41+51.69	51.97' Lt	1.00	1.41	1.57
8-1	44+37.42	32.50' Lt	44+68.76	52.51' Lt	35.00	37.35	39.40

BULLET NOSE DATA



LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH (RC)	CHORD LENGTH	CURVE LENGTH (L)
SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET
5-6	24+23.90	7.50' Lt	24+34.00	6.47' Lt	50.00	10.15	10.17
5-7	24+33.70	3.50' Lt	24+34.00	6.47' Lt	1.50	2.98	4.41
5-13	66+65.52	3.56' Lt	66+65.82	7.54' Lt	2.00	3.99	6.01
5-14	65+76.16	15.67' Lt	66+29.23	13.03' Lt	249.00	53.27	53.37
5-15	68+28.33	3.50' Rt	68+28.33	7.50' Rt	2.00	4.00	6.28
5-22	26+02.23	11.19' Rt	26+02.26	4.25' Rt	3.50	6.94	10.10
5-23	26+14.44	3.50' Rt	26+02.26	4.25' Rt	99.00	12.20	12.21
5-24	26+62.73	17.50' Rt	26+36.43	15.75' Rt	199.00	26.36	26.38
5C-1	63+81.53	2.85' Rt	63+81.50	0.15' Lt	1.50	3.00	4.61
5E-5	72+12.64	3.03' Lt	72+00.04	7.50' Lt	20.00	13.37	13.64
5E-6	72+22.80	3.74' Rt	72+12.64	3.03' Lt	65.00	12.21	12.22
5E-7	72+21.85	7.50' Rt	72+22.80	3.74' Rt	2.00	3.88	5.30
5E-8	72+53.60	7.50' Lt	72+53.60	3.50' Lt	2.00	4.00	6.28
5G-1	77+67.85	0.97' Rt	77+68.37	7.50' Lt	4.25	8.49	12.85
6-14	36+00.71	4.00' Lt	36+00.71	7.50' Lt	1.75	3.50	5.50
6-15	36+79.08	3.50' Rt	36+79.08	7.00' Rt	1.75	3.50	5.50
7-4	41+04.03	4.00' Lt	41+04.03	7.50' Lt	1.75	3.50	5.50
7-5	41+67.75	3.50' Rt	41+67.75	7.00' Rt	1.75	3.50	5.50
8-2	44+22.42	4.00' Lt	44+22.42	7.50' Lt	1.75	3.50	5.50

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning
Transportation • Environmental
Right of Way Services
Office Locations

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Curb Return Profiles

SCALE H= 25, V= 5 — 0, 25', 50'

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

Mark A Gunn
2016.04.20 14:42:46 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(2A)

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

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning • Transportation • Environmental • Right of Way Services
Office Locations

Curb Return Profile 4-1
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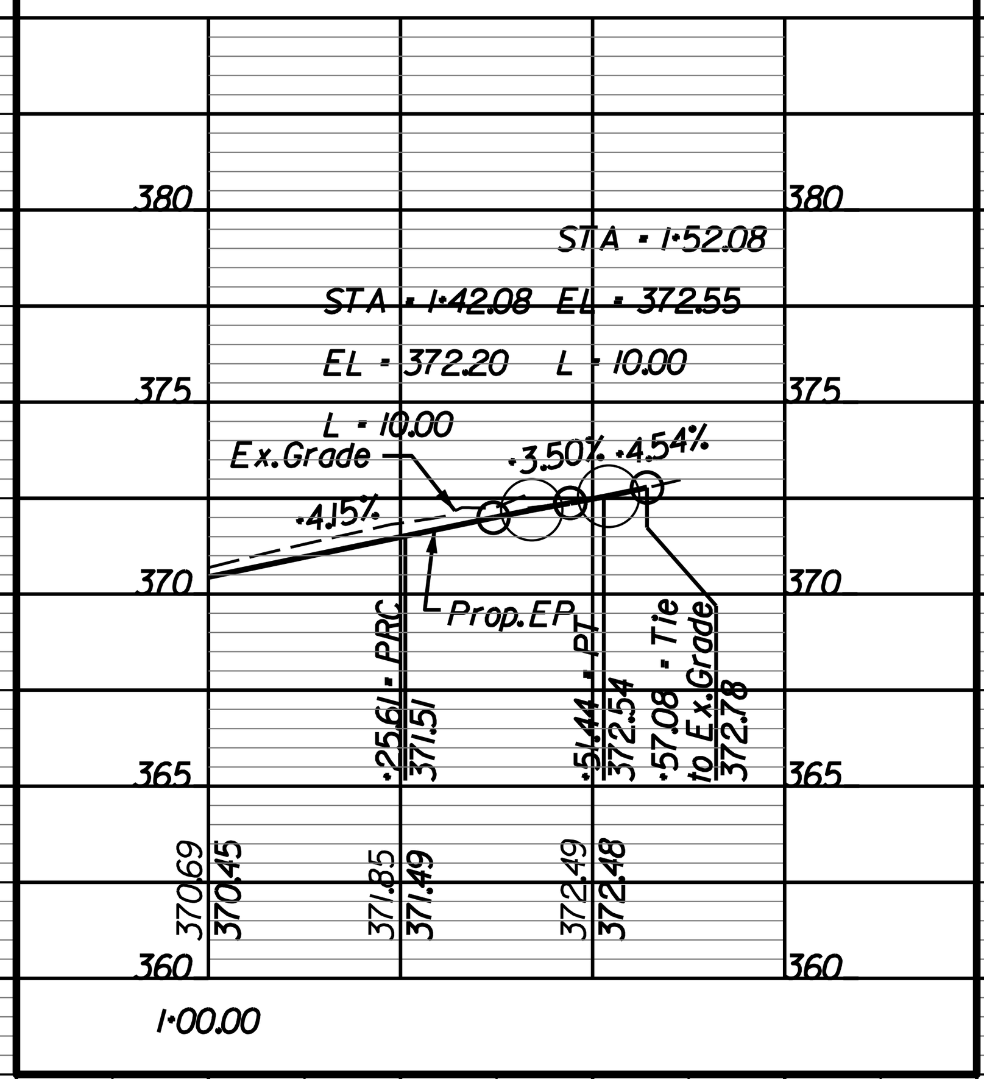

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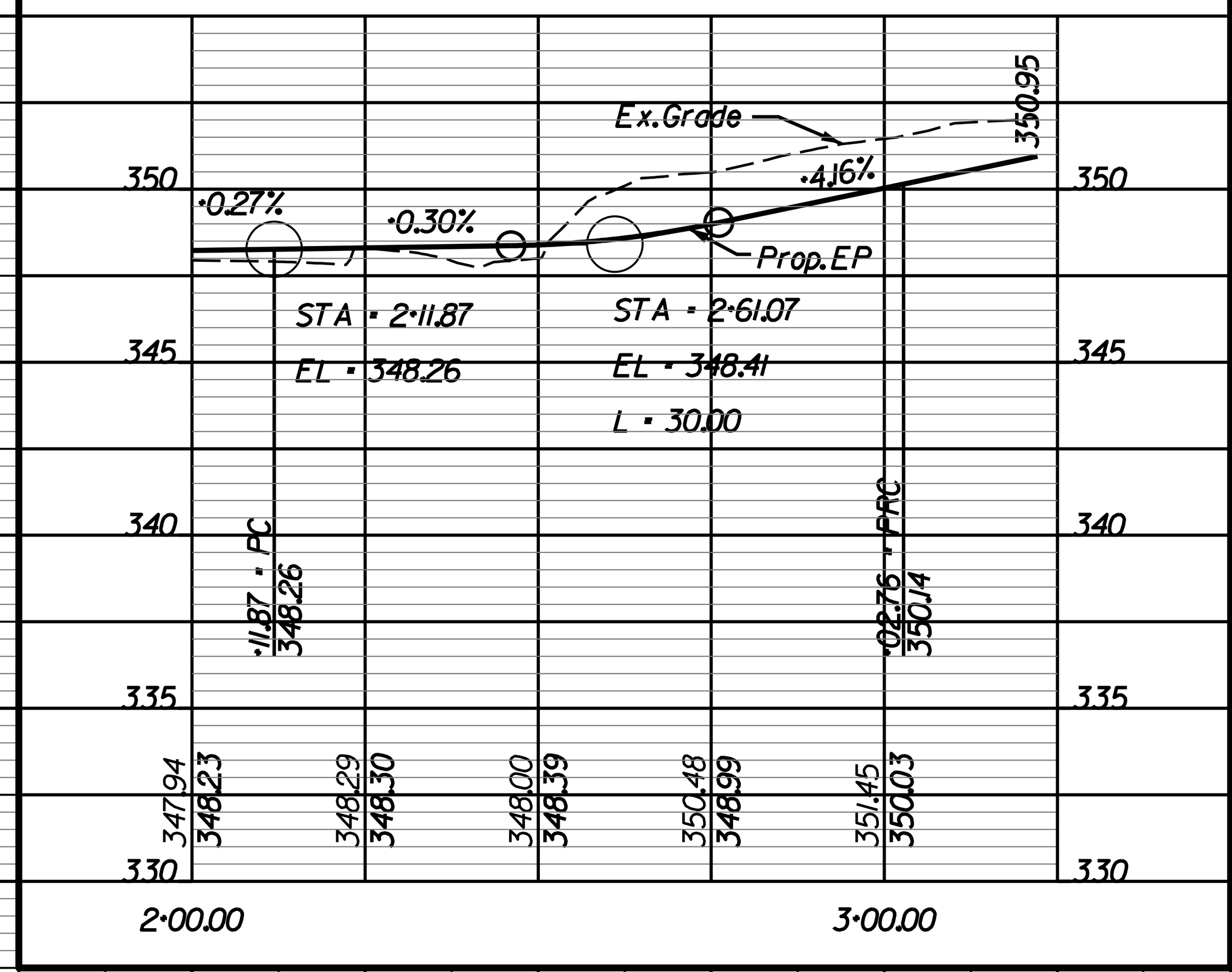

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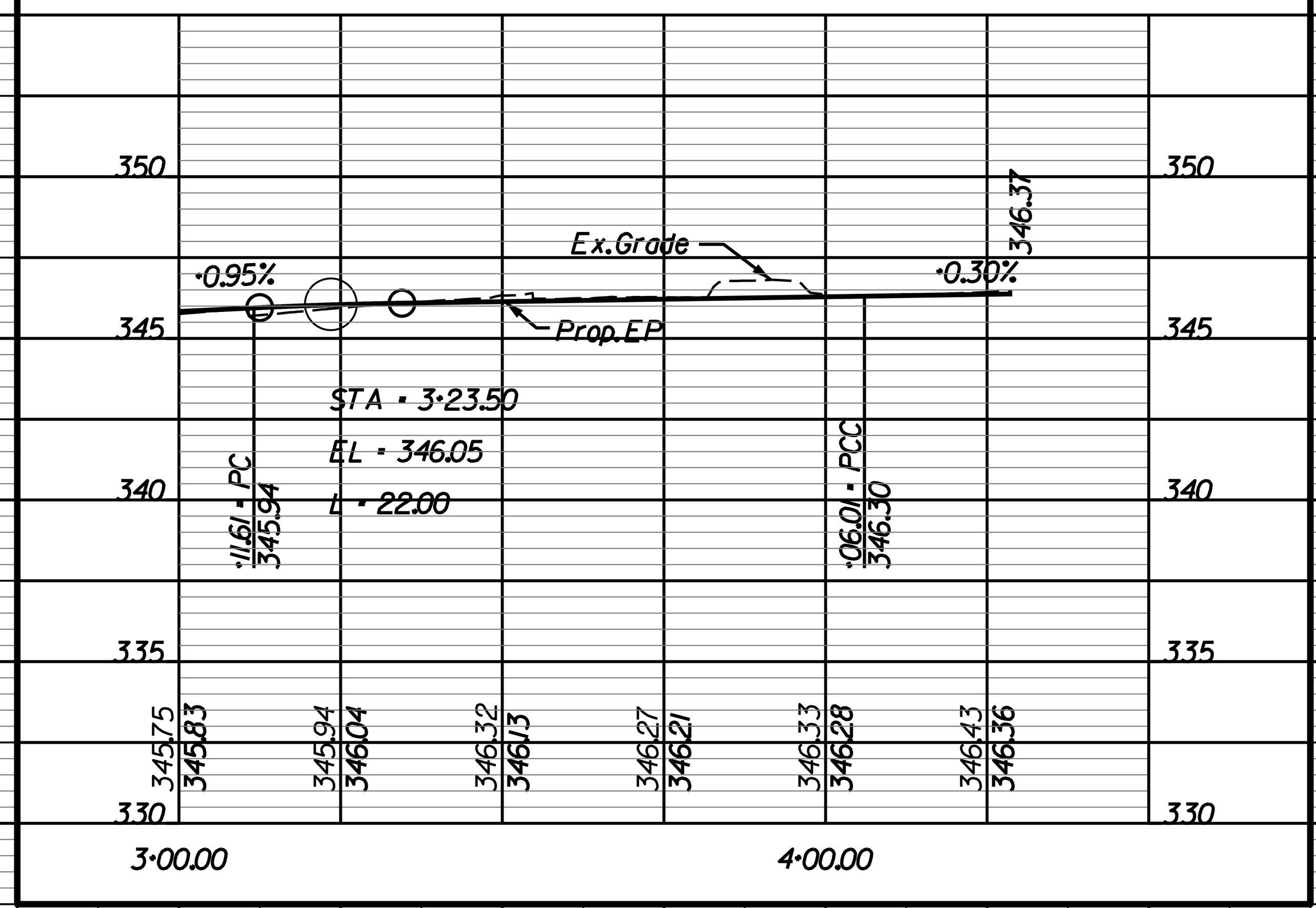

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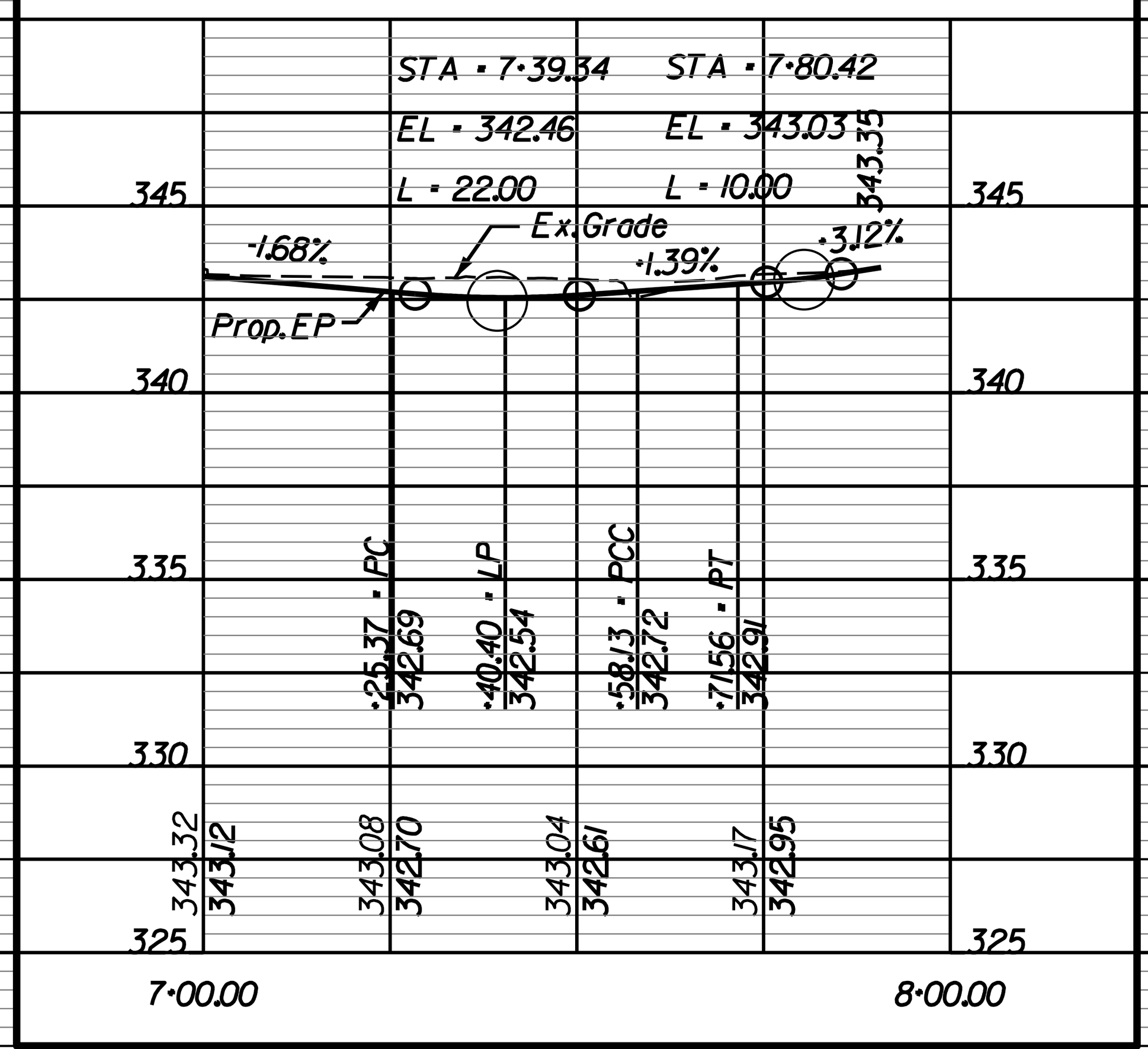

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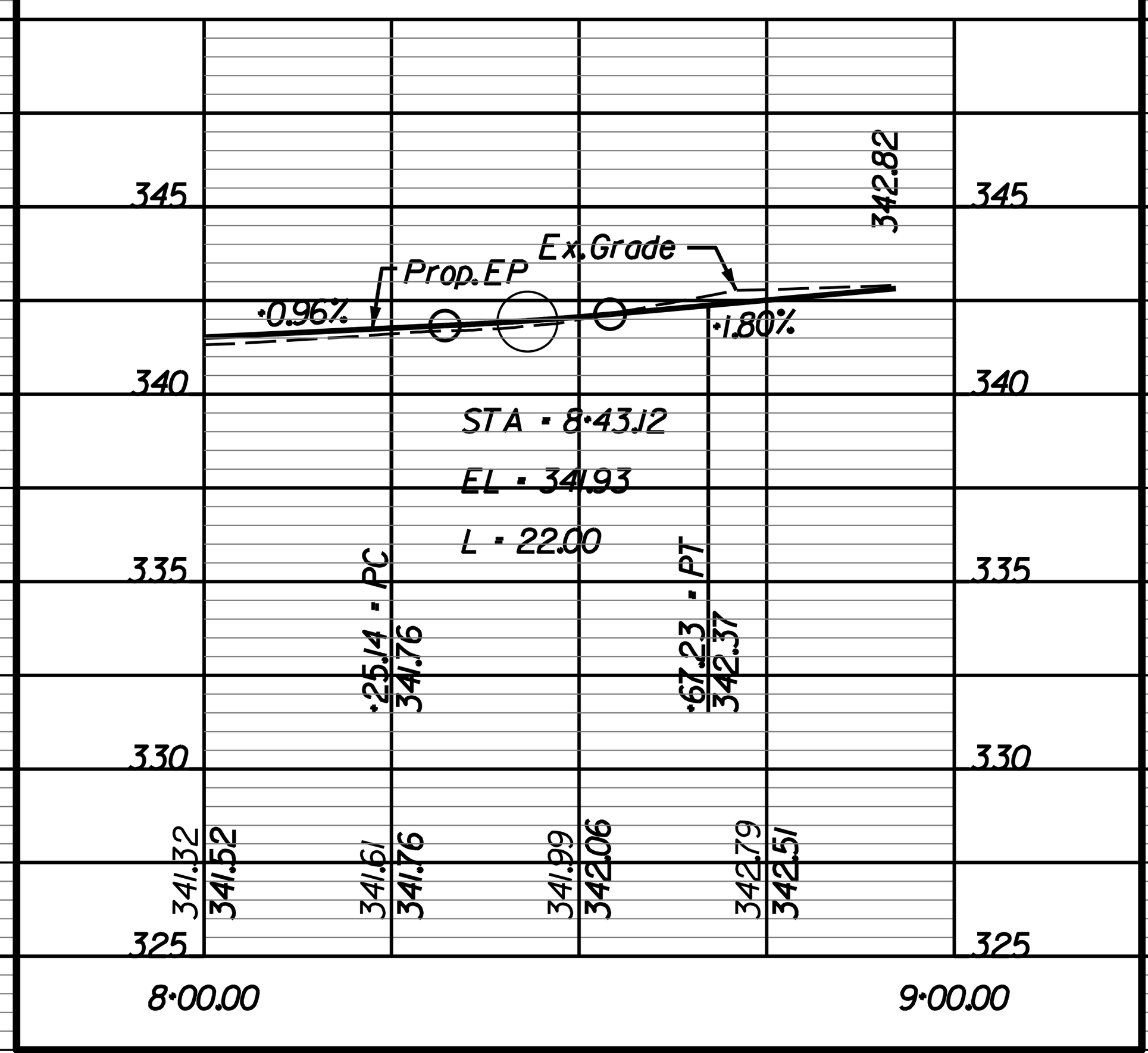

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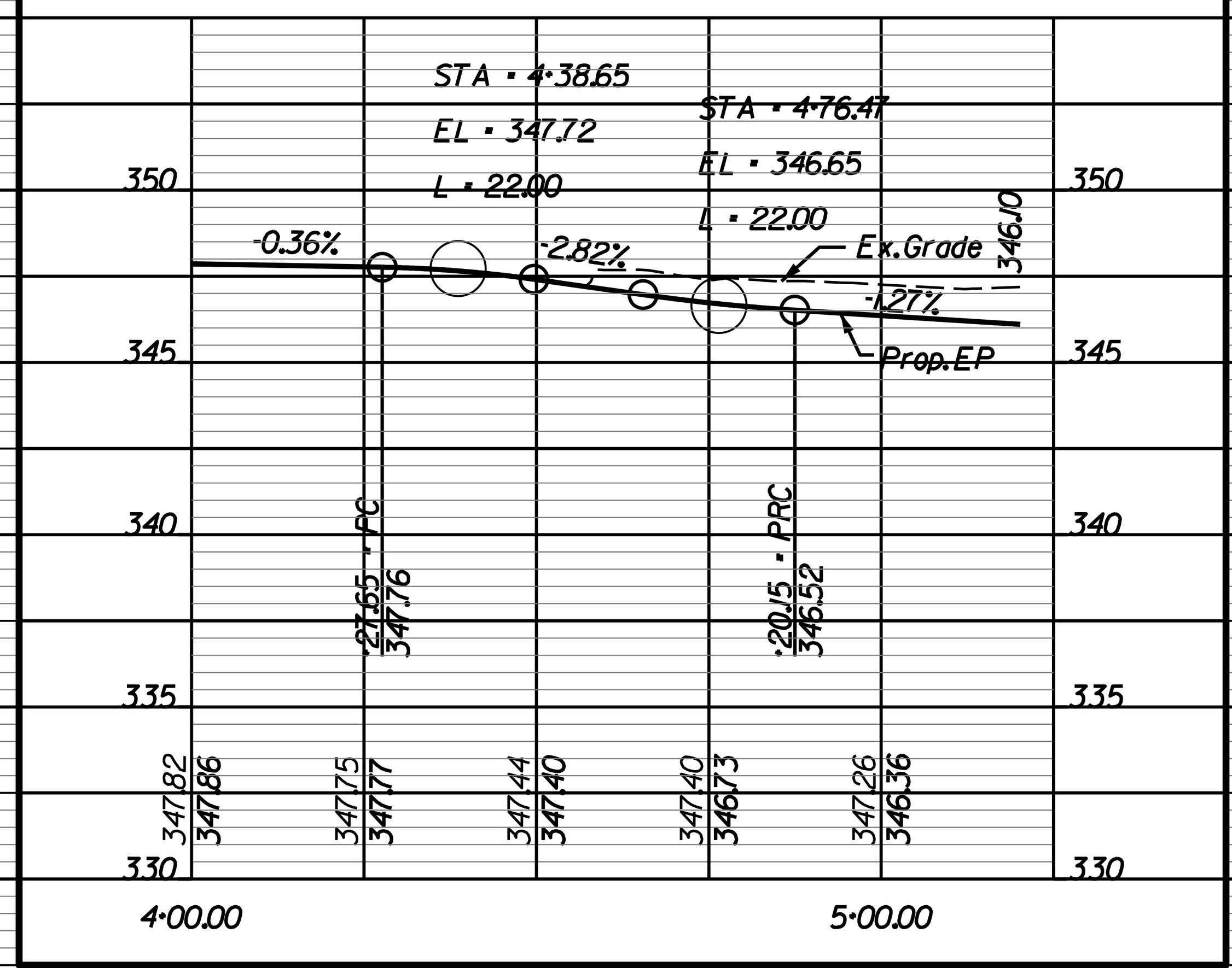

PROJECT MANAGER Wendy Block Sanford,City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc.,P.C.(703) 368-7373 (2011)
DESIGNED BY Adam D.Welschenbach,P.E.,Rinker Design Assoc.,P.C.(703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Curb Return Profiles Cont.

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

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

Mark A Gunn
2016.04.20 14:43:11 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	STATE ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101,P102,R201,C501	1G(2B)

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

Rinker Design Associates, P.C.
Office Locations

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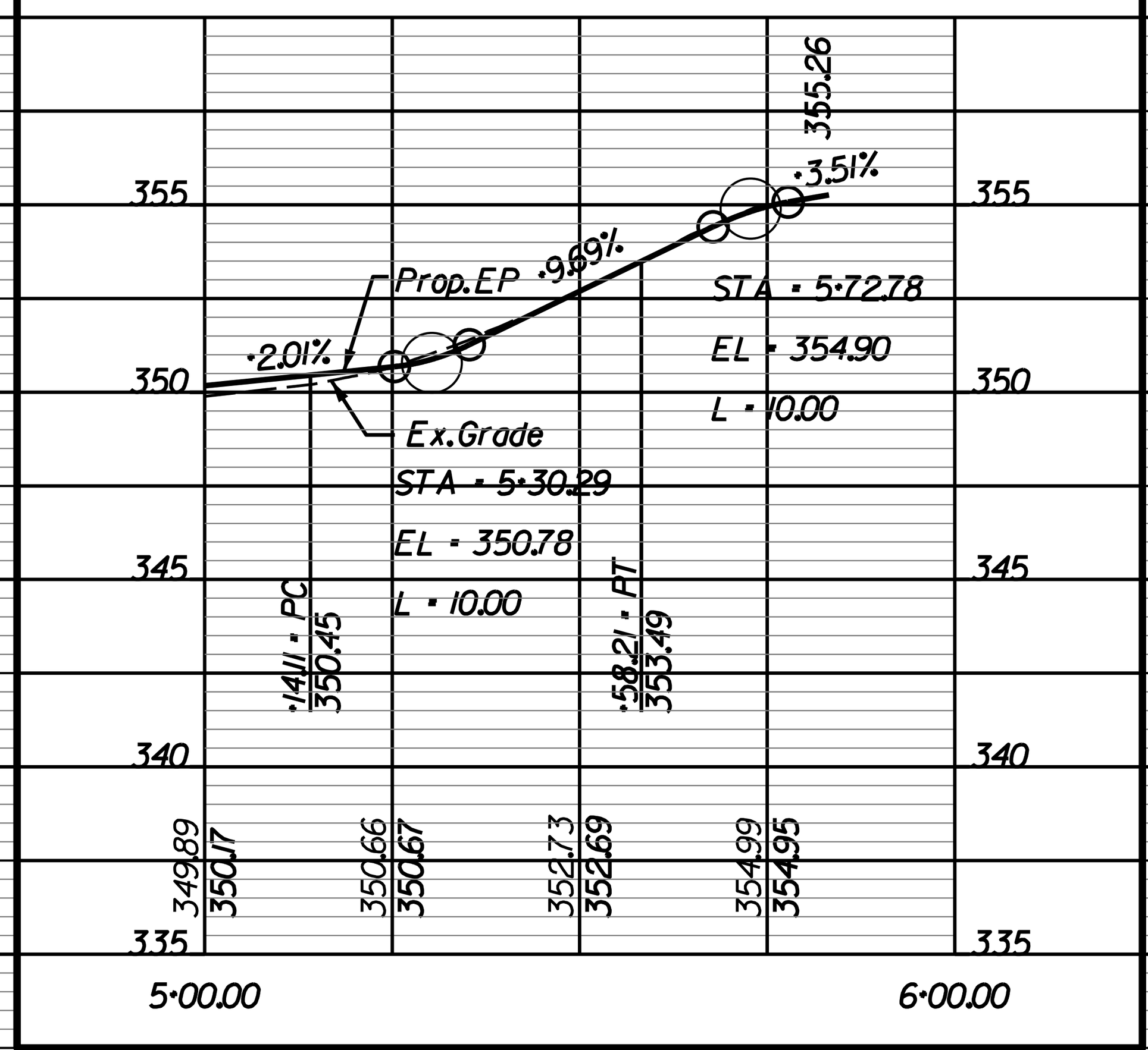

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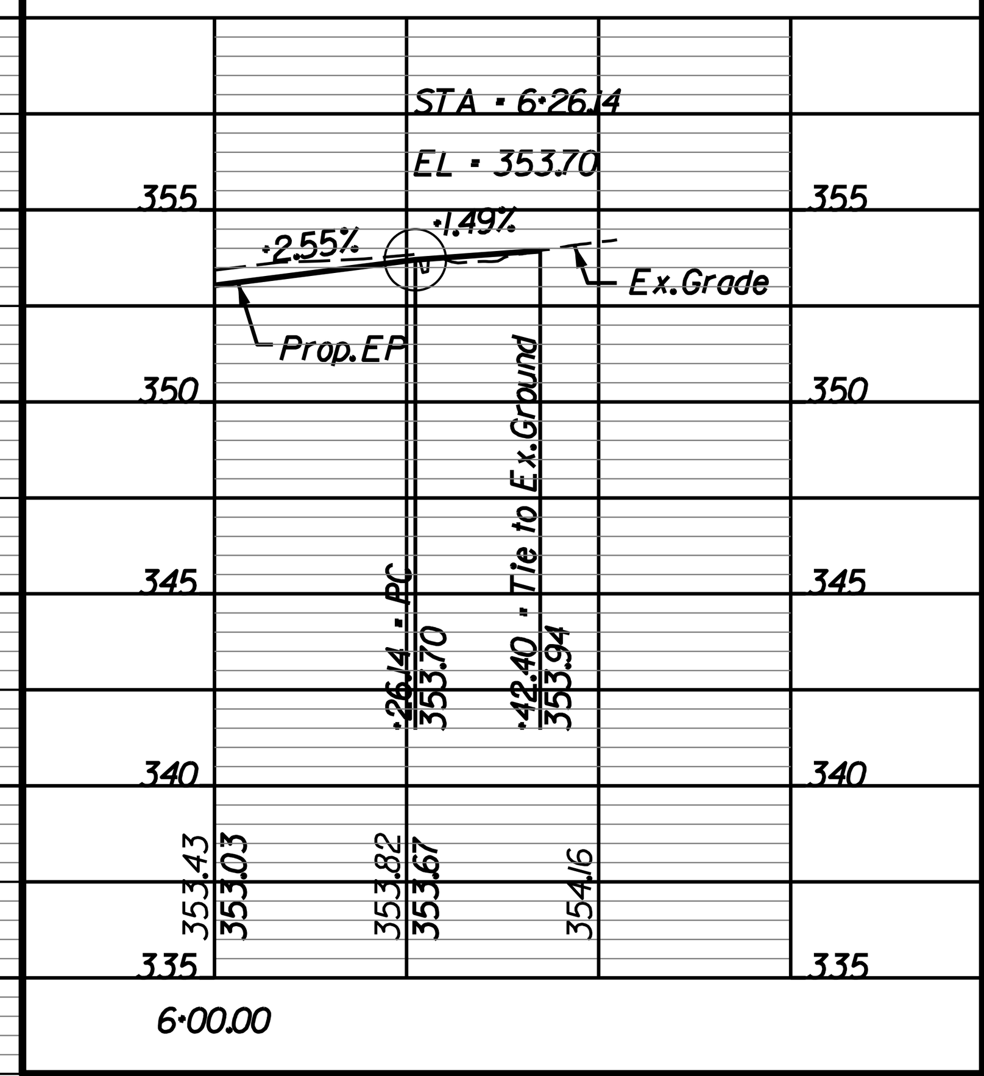

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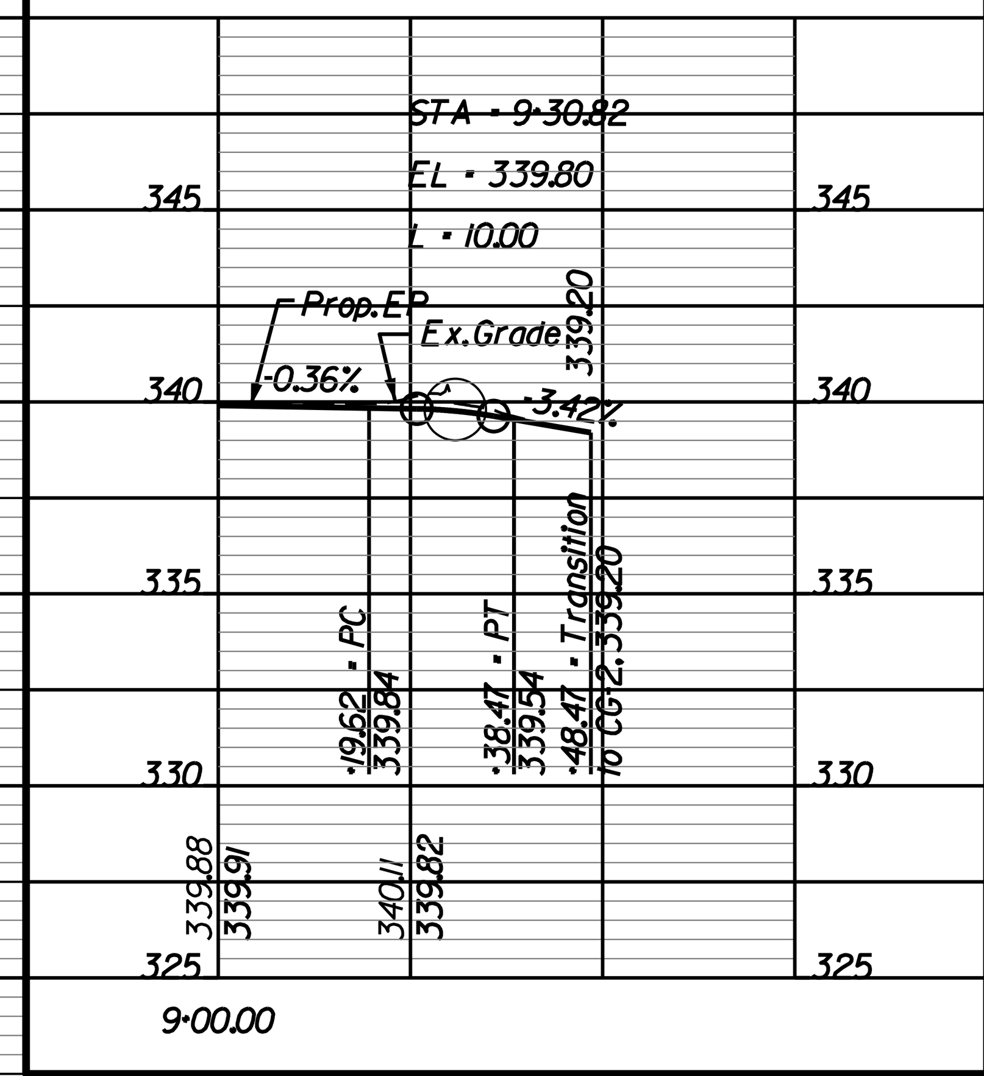

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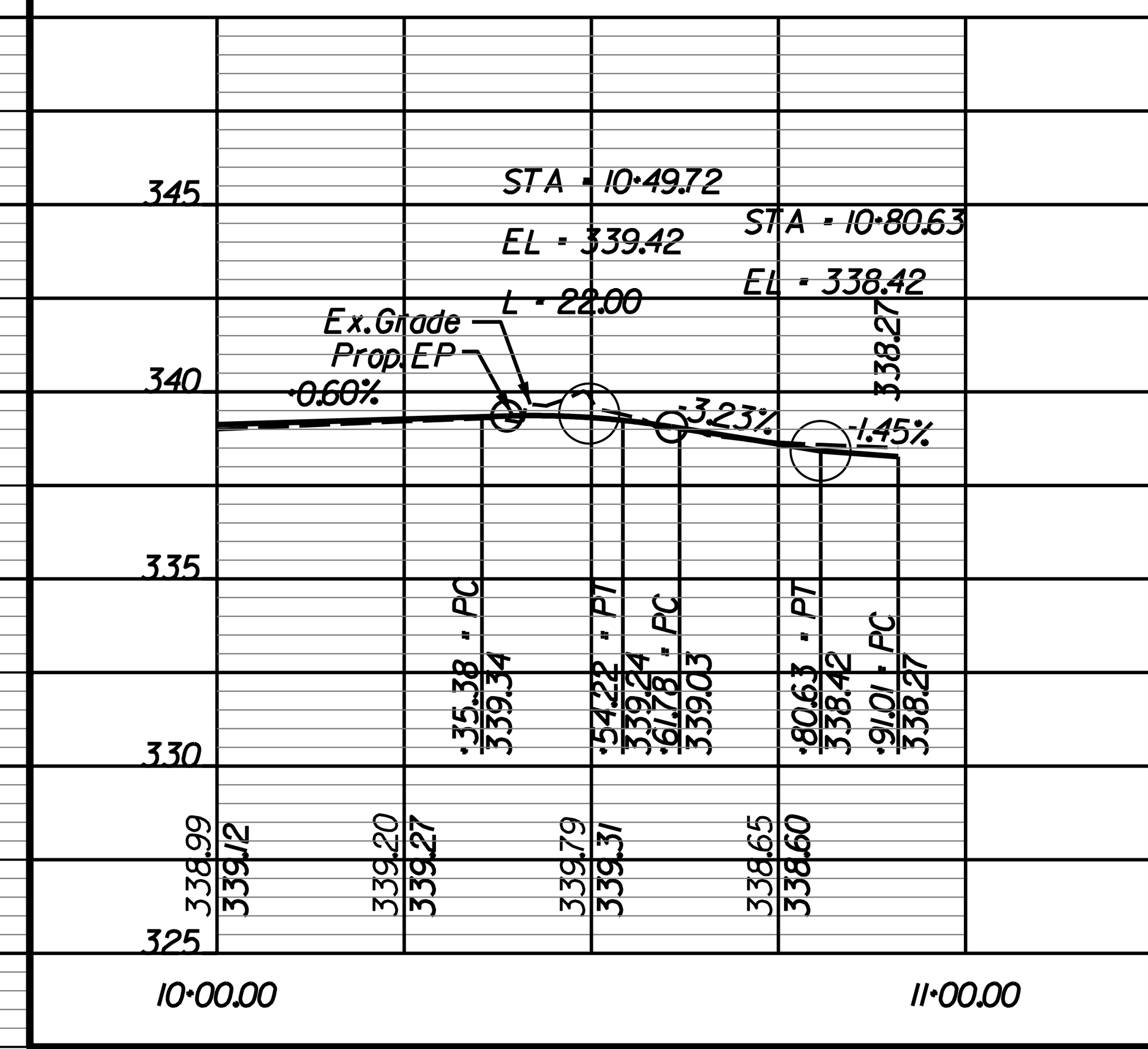

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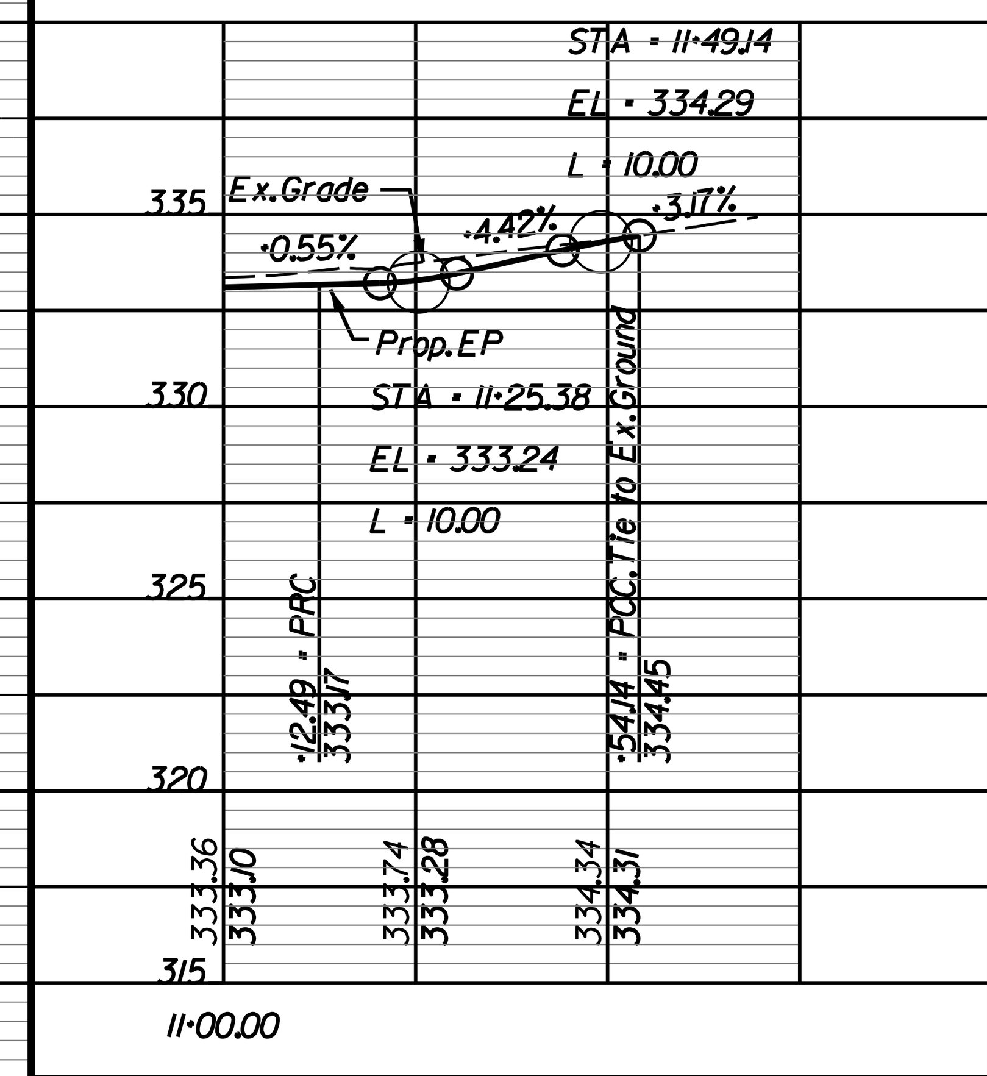


PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc. P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc. P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

Geometric Data

THIS SHEET IS FOR GEOMETRIC DATA INFORMATION ONLY

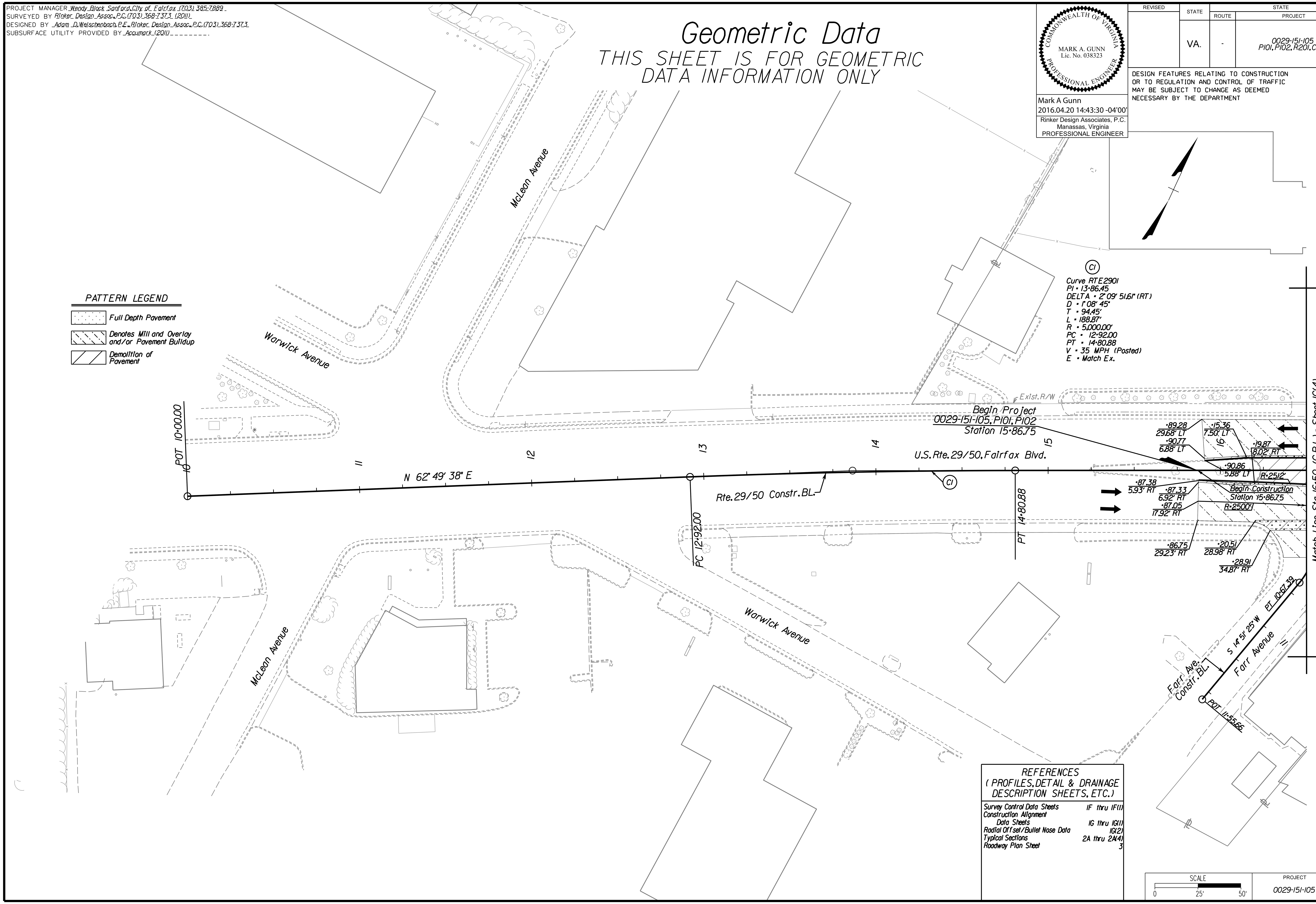
COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:43:30 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(3)

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

PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement



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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	3

SCALE	PROJECT	SHEET NO.
0 25' 50'	0029-151-105	1G(3)

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning • Transportation • Environmental • Right of Way Services
Office Locations

4/20/2016

PROJECT MANAGER Wendy Block Sanford, City of Fairfax
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER
Mark A Gunn
2016.04.20 14:43:54 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning · Transportation · Environmental · Right of Way Services
Office Locations

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	IG(4)

Geometric Data Cont.

THIS SHEET IS FOR GEOMETRIC DATA INFORMATION ONLY

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

4A P01 Fairfax Blvd. (U.S. Route 29/50) Sta. 16+55.25
P01 Farr Avenue Sta. 10+00.00

PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement
- Concrete Pavement (cut at existing expansion joints)

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	IG thru IG(1)
Radial Offset/Bullet Nose Data	IG(2)
Curb Return Profiles	IG(2A)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	4

SCALE 0 25' 50'

PROJECT	SHEET NO.
0029-151-105	IG(4)

4/20/2016

PROJECT MANAGER Wendy Block Sanford, City of Fairfax
SURVEYED BY Rinker Design Assoc. P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc. P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc. P.C. (703) 368-7373

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
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PROFESSIONAL ENGINEER
Mark A Gunn
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Rinker Design Associates, P.C.
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REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(5)

Geometric Data Cont.

THIS SHEET IS FOR GEOMETRIC DATA INFORMATION ONLY

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

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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Curb Return Profiles	1G(2A)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	5

SCALE 0 25' 50'

4/20/2016

PROJECT MANAGER Wendy Block Sanford, City of Fairfax
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Office Locations

Geometric Data Cont.

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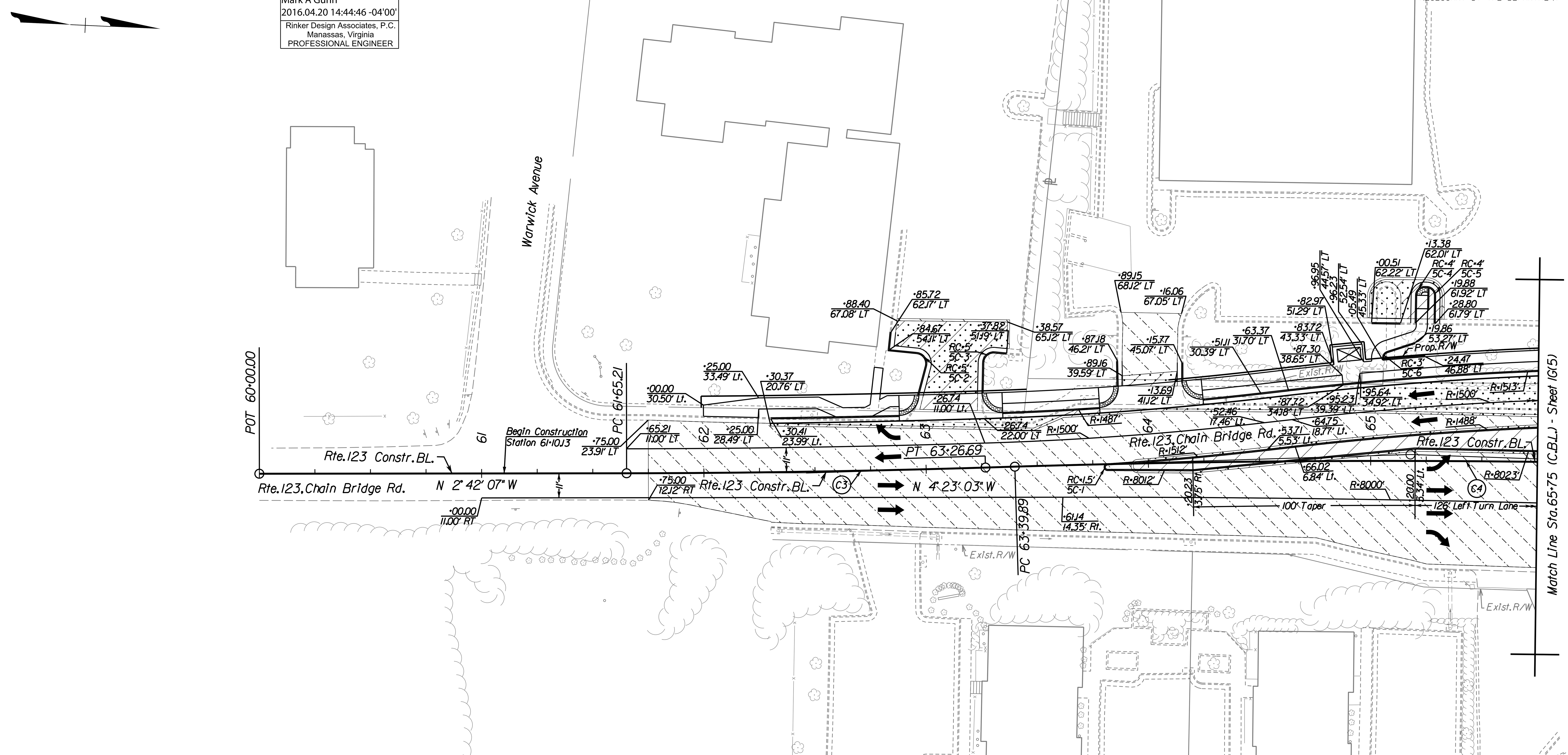
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(5C)

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



C3

Curve RTE12301
PI = 62+45.95
DELTA = 1° 40' 56.14" (LT)
D = 1° 02' 30"
T = 80.75'
L = 161.49'
R = 5,500.00'
PC = 61+65.21
PT = 63+26.69
V = 30 MPH (Posted)
E = -2.0% (U.L.S.)

C4

Curve RTE12302
PI = 65+17.94
DELTA = 3° 42' 30.21" (RT)
D = 1° 02' 30"
T = 178.05'
L = 355.98'
R = 5,500.00'
PC = 63+39.89
PT = 66+95.87
V = 30 MPH (Posted)
E = -2.0% (U.L.S.)

PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement

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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	5C

SCALE 0 25' 50'

PROJECT	SHEET NO.
0029-151-105	1G(5C)

4/20/2016

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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SUBSURFACE UTILITY PROVIDED BY Accumark (2011)

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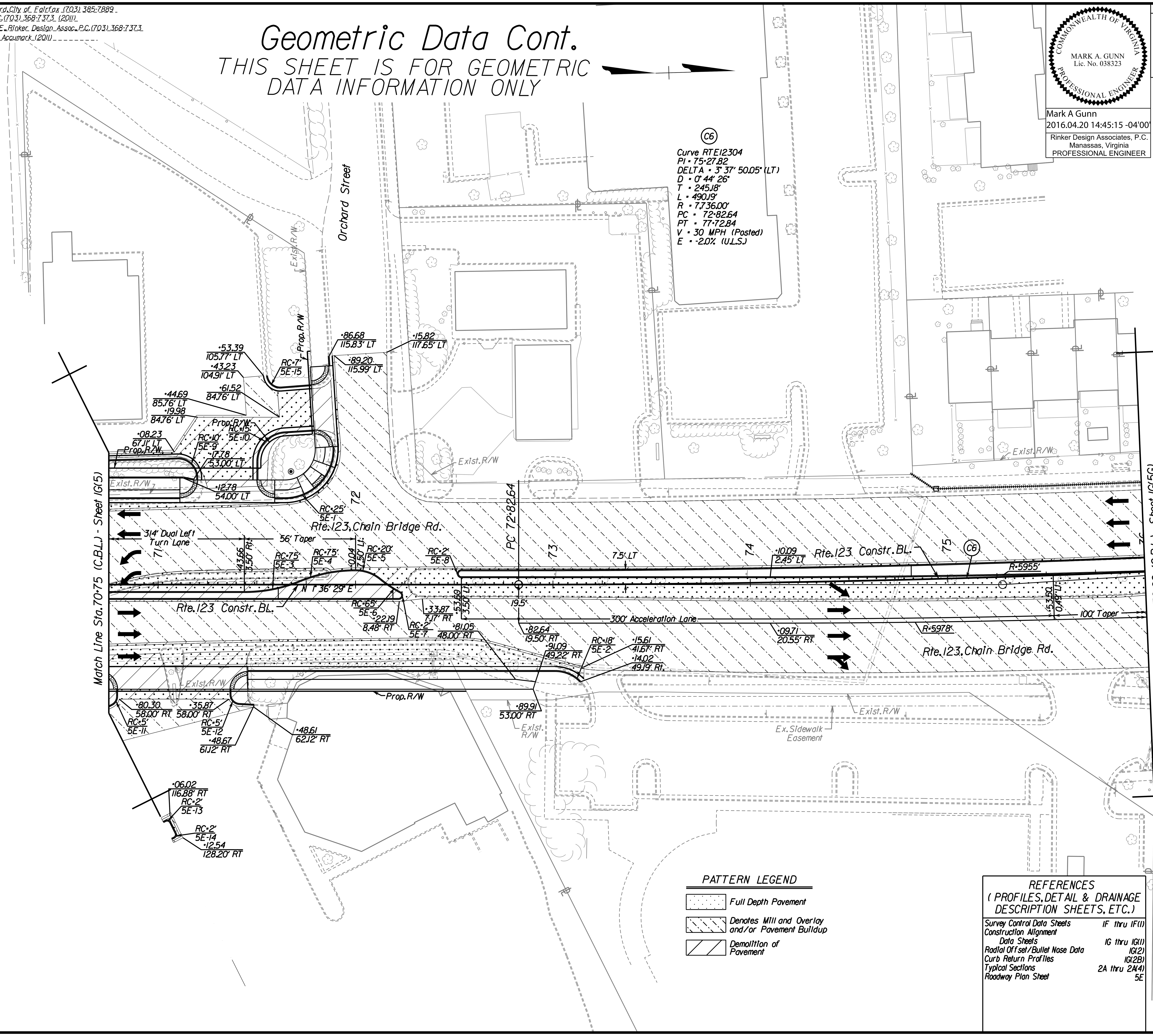
Office Locations

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(5E)

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



PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement

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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Curb Return Profiles	1G(2B)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	5E

SCALE 0 25' 50'

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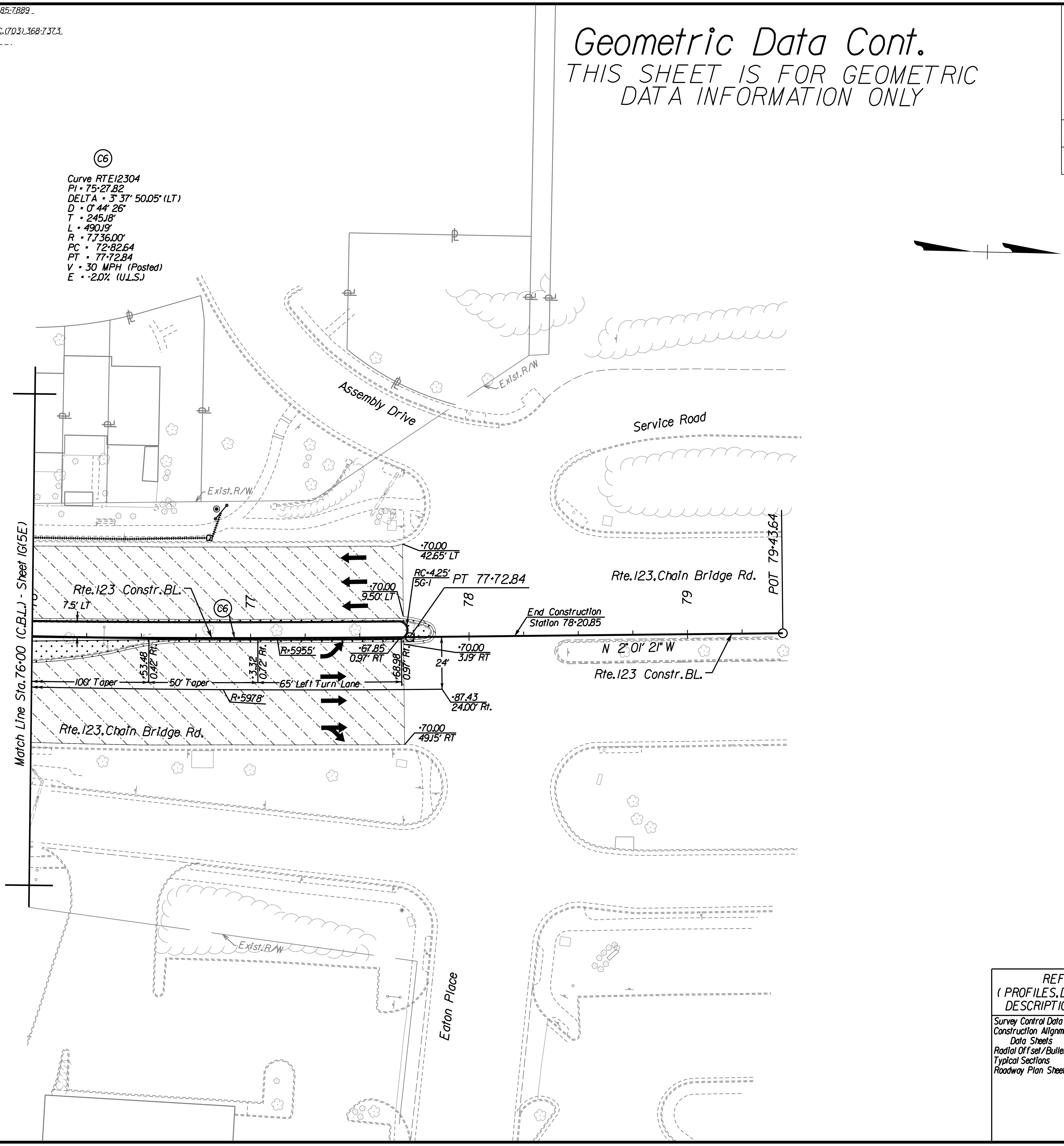
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(5G)

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

C6
Curve RTE12304
PI = 75+27.82
DELTA = 3° 37' 50.05" (LT)
D = 0° 44' 26"
T = 245.18'
L = 490.19'
R = 7,736.00'
PC = 72+82.64
PT = 77+72.84
V = 30 MPH (Posted)
E = -2.0% (U.L.S.)



PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement

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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	5G

SCALE 0 25' 50'

PROJECT	SHEET NO.
0029-151-105	1G(5G)

4/20/2016

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REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	IG(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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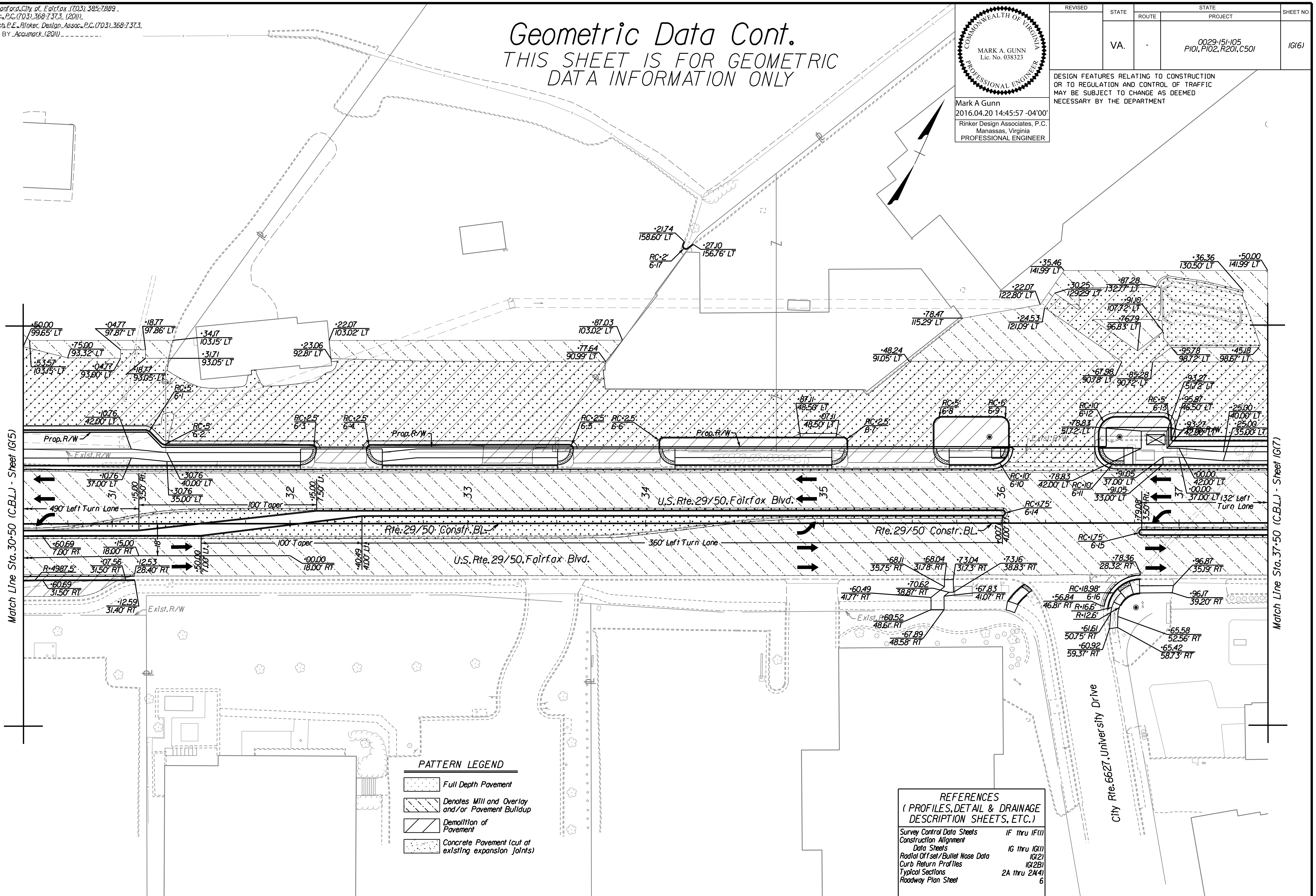

PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement
- Concrete Pavement (cut at existing expansion joints)

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	IG thru IG(1)
Radial Offset/Bullet Nose Data	IG(2)
Curb Return Profiles	IG(2B)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	6

SCALE	PROJECT	SHEET NO.
0 25' 50'	0029-151-105	IG(6)

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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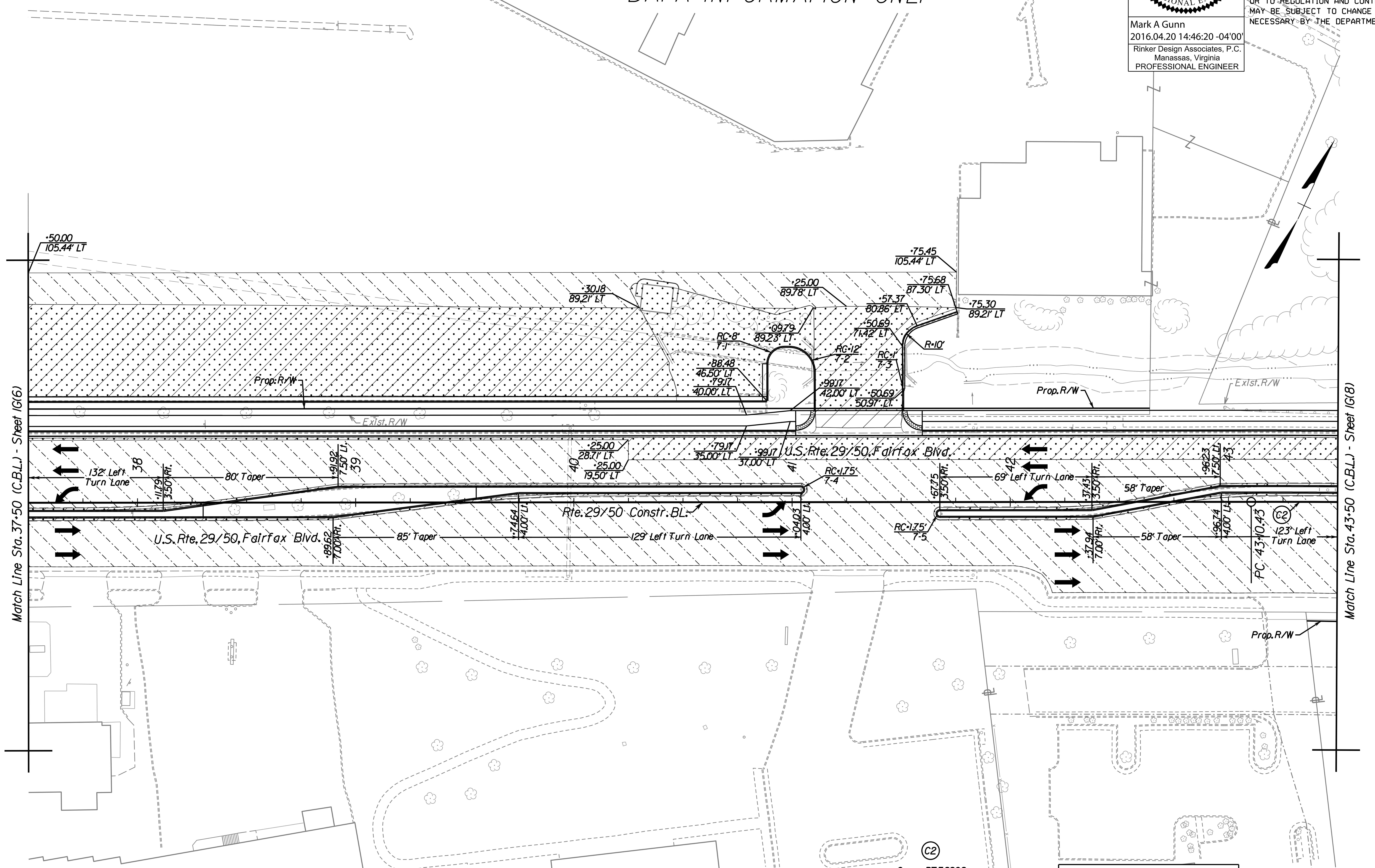
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(7)

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



PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement

C2

Curve RTE2902
PI = 46+89.82
DELTA = 6° 40' 50.68" (RT)
D = 0° 52' 53"
T = 379.38'
L = 757.91'
R = 6,500.00'
PC = 43+10.43
PT = 50+68.34
V = 35 MPH (Posted)
E = Match Existing

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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	7

SCALE	PROJECT	SHEET NO.
0 25' 50'	0029-151-105	1G(7)

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning • Transportation • Environmental • Right of Way Services
Office Locations

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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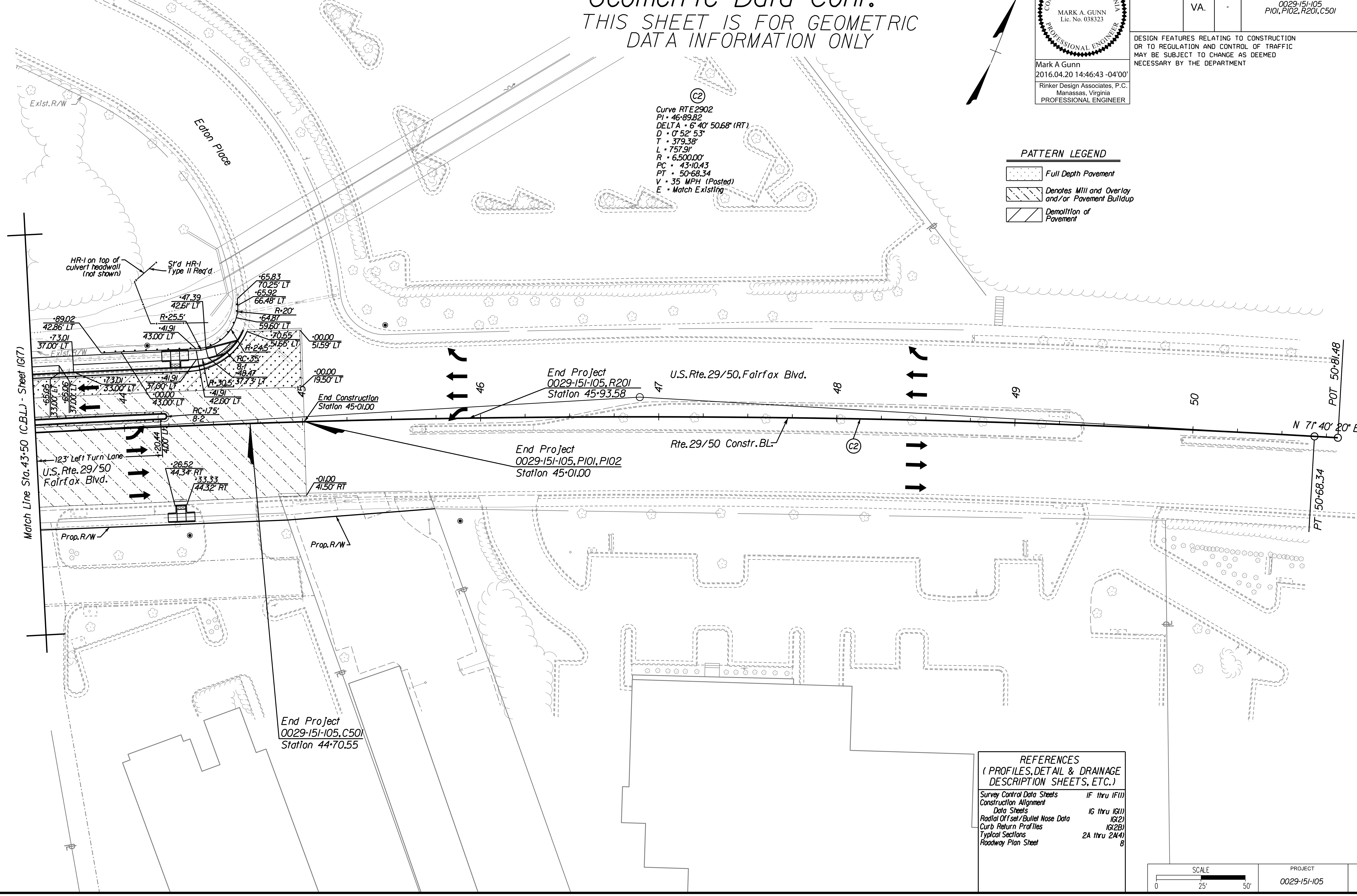
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	1G(8)

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

Curve RTE2902
PI = 46+89.82
DELTA = 6° 40' 50.68" (RT)
D = 0° 52' 53"
T = 379.38'
L = 757.91'
R = 6,500.00'
PC = 43+10.43
PT = 50+68.34
V = 35 MPH (Posted)
E = Match Existing

PATTERN LEGEND
- Full Depth Pavement
- Denotes Mill and Overlay and/or Pavement Buildup
- Demolition of Pavement



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

Survey Control Data Sheets	1F thru 1F(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Radial Offset/Bullet Nose Data	1G(2)
Curb Return Profiles	1G(2B)
Typical Sections	2A thru 2A(4)
Roadway Plan Sheet	8

SCALE 0 25' 50'

PROJECT	SHEET NO.
0029-151-105	1G(8)

Rinker Design Associates, P.C.
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