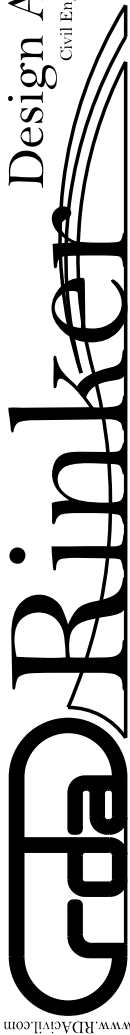


PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Rinker Design Assoc., P.C. (703) 368-7373 & VHB (703) 847-3071
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)-----

Office Locations
10000 Old Dominion Road
Suite 100
Falls Church, VA 22041
703.368.7373
Fax 703.368.7374

Design Associates, P.C.
Civil Engineering
Transportation
Right of Way Services



Vannesse Hanger Brustin, Inc.
Engineers, Planners & Scientists
8300 Boone Blvd., Suite 700
Vienna, VA 22182 (703) 847-3071



4/20/2016

PLAN OF PROPOSED TRAFFIC SIGNALS

- ① Intersection of Fairfax Boulevard (U.S.Route 29/50) at Chain Bridge Road (S.R.123): Sheet 11(1)
② Intersection of Chain Bridge Road (S.R.123) at Orchard Street (N.I.S.): Sheet 11(2)

- ③ Intersection of Fairfax Boulevard (U.S.Route 29/50) at University Drive (City Route 6627): Sheet 11(3)
④ Intersection of Fairfax Boulevard (U.S.Route 29/50) at Eaton Place (N.I.S.): Sheet 11(4)

Proposed Signal Installation General Notes:

1. The Contractor is responsible for obtaining controllers and cabinets through the City of Fairfax. Payment(s) for the controllers and cabinets are required prior to the Contractor receiving the equipment. In order to avoid delays in obtaining the controller and cabinet, the City requires notification and payment three (3) months prior to the start of any construction. The Contractor shall contact the City to arrange for the purchase and pick-up of the controller and cabinet. Two (2) weeks prior to the agreed upon pick-up date, the Contractor shall contact the City to verify equipment availability. The Contractor shall pick-up the controller and cabinet from the City at the City's maintenance yard (Pickett Road Facility). Upon receipt controller and cabinet from City, the Contractor's qualified representative shall wire the cabinet and program and test the phasing of the intersection as shown on the plan. The Contractor shall provide a certification letter to City indicating that the work is in compliance with City standards and is consistent with the phasing as per the signal plan. As part of the installation, the Contractor is responsible for providing the concrete foundation specified as SFD, CF-1 and the phone company access compartment shown as CC-2. The Contractor shall furnish and install an approved battery back-up system (Uninterruptible Power Supply/UPS). The UPS assembly (cabinet) shall be Type B and shall mount directly to the controller cabinet.

2. Controller cabinet foundations shall be SFD CF-1 (6/15/2009 revision) to include two 4" conduits and two spare 3" conduits (one to be capped) tied into the JB-S3. The controller cabinet foundation shall have a separate 1-1/4" conduit tied into the power service and a separate 2" conduit tied to COMM JB-S1.

3. 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 April 2009 and June 2009 Revisions to the Road and Bridge Standards, as applicable. All City of Fairfax requirements related to signal construction are applicable. Coordination with City's Signal staff is required.

4. Five (5) working days prior to commencing traffic signal work at any location in the City of Fairfax, the Contractor shall notify the City in writing with the name, daytime phone numbers, and emergency phone numbers for the Contractor, giving the location of the work site including street names, route numbers, permit number, type, and details of construction and work schedule.

5. The City Engineer, prior to construction, shall verify location of controller cabinet.

6. The traffic signal shall not be placed into flashing or full-color operation without the prior notification and approval from City's Signal Staff. Arrangements shall be made by the City to schedule the City signal field personnel providing a minimum of 72 hours advance notice. New traffic signal installations shall not be placed into color operation on Mondays, Fridays, or days preceding or following holidays, unless directed by the City's Engineer.

7. The Contractor shall have his/her qualified representative present to monitor traffic flow and adjust timings as necessary through a minimum of four consecutive mornings and evening rush hour periods, or as directed by the City Engineer.

8. All right turn overlaps shall be wired to the overlap switch position.

9. For installation of conduits, no open cut will be allowed in the roadway surface.

10. The Contractor shall perform test pits and exercise care in placement of signal pole foundations to preclude utility conflicts. If adjustments in pole locations are required, the Contractor shall notify the City Engineer prior to commencing work.

11. 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.

12. 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.

13. 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.

14. No traffic signal shall be placed into operation until the location is 100% complete. This includes any necessary pavement marking and signage adjustment shown on the plans. The Contractor shall notify the permit inspector, who shall notify the City Engineer a minimum of 48 hours prior to placing the signal into operation.

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

16. 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.

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

18. Site preparation and grading shall be incidental to signal installation.

19. Trench excavation shall be in accordance with Standard ECH-1.

20. The City of Fairfax will provide signal timings to be implemented for the signal.

21. The Contractor shall be responsible for maintaining electrical service to the controller at all times. The Contractor shall be responsible for all costs associated with maintaining electrical service to the traffic signal. Electrical Service shall be installed with power service company's specifications and shall be equivalent to VDOT's SE-5 or SE-6 specification for an underground service lateral (see signal plans for connection type). The Contractor is responsible for all costs (including hook-up fees) associated with providing electrical service to the traffic signal to meet the criteria set forth by this note at no additional cost to the project and should not be paid for as a separate item. Electrical service shall be metered at the City's discretion.

22. Traffic signal heads shall be cast aluminum. Pedestrian signal head sections shall be cast aluminum. All signal heads and pedestrian heads shall be fabricated to be black in color. City approval of materials is required prior to purchasing materials.

23. Hanger assembly brackets for angled traffic signal heads shall be such that back plates can be installed without alteration or modification.

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

25. 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.

26. All breakaway poles shall have breakaway fuses.

27. 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.

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

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

29. All signal poles, mast arms, and foundations shall be designed to accommodate an additional 5-section head four feet from the tip (free end) of the mast arm and an additional MUTCD R10-12 (30" x 36") sign one foot from the tip (free end) of the mast arm. Contractor shall obtain approval from the City for the signal pole locations and height of arms prior to installation to ensure it meets standards. Signal poles and mast arms shall be additionally black powder coated.

30. Pedestrian pole and foundations shall conform to Standard PF-2. Pedestal Pole (PF-2) shall be 12 ft. in height. Pedestal pole heads shall be mounted in accordance with SFD SMB-3.

31. All Ped. Push buttons shall be mounted in accordance with Standard PA-2. Pedestrian SFD 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.

32. All Pedestrian signals shall be in accordance with Standard SP-8. Mast arms signal heads mountings shall be in accordance with Standard SM-3.

33. Signs mounted on mast arms shall be in accordance with Standard SMD-2.

34. The cost of 2" metal conduit to JB-S2 for system grounding is included in the cost of electric service SE-6 or SE-5 (as shown on the plans).

35. All signal heads shall have polycarbonate backplates. Backplate hardware shall be stainless steel and black in color.

36. 14/1 Enclosed conductor cable lead in requires 3/8" sawcut.

37. The Contractor shall be responsible for providing and maintaining communication to the controller at all times. The Contractor is responsible for any costs associated with providing communication to the traffic signal. The Contractor shall be responsible for coordinating the location and the installation of the communication circuit conduit(s) to the traffic signal controller cabinet with the designated communication provider. The Contractor shall contact the City (120) days prior to the start of the traffic signal construction to establish the communication provider and to coordinate the communication activities. The cost to provide and connect City Interconnect shall include all time, materials (cables, splicing, etc.), labor, fees, etc., to provide communication from City Interface to signals.

38. The 1" metal conduit that is installed as part of the communication circuit (SFD CC-2 on the controller cabinet) shall be terminated into a SFD JB-S1 junction box located 12" to 24" from the controller cabinet foundation. The 2" conduit from the designated communication provider connection point to the controller cabinet shall be terminated into this JB-S1. The required ground electrode for the communication circuit shall be installed in this JB-S1. The cover shall have "COMM" cast in the depression on top as detailed in the SFD JB-S1. Pull Rope rated at 100 lbs. shall be installed in all communication conduits.

39. 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 City's traffic signal system.

40. Included in the cost of all conduits shall be the cost of equipment grounding conductor (1/6 AWG EGC).

41. The cost of maintenance of traffic on roadway while traffic signal is being installed shall be incidental to the project and not paid for as a separate item.

42. Contractor shall install all vehicle detection prior to the installation of final surface course. The Contractor shall install wireless vehicle detection devices and cables in accordance with City specification and project special provisions. Coordination with the City of Fairfax is required prior to ordering materials/equipment.

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

44. 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.

45. For Preemption Devices:

A. All new traffic signals shall include OPTICOM Emergency Vehicle Preemption (EVP) equipment.

B. The Contractor shall install the OPTICOM EVP system as shown on the plans. The OPTICOM EVP system shall include all optical detectors, detector cables, phase selectors, and discriminators for a functional system.

C. The Contractor shall be responsible for the purchase and installation of the EVP equipment per current adopted State and County specifications.

D. All installed OPTICOM EVP equipment shall be compatible with existing or proposed signal equipment.

E. The Contractor shall install the OPTICOM EVP equipment in accordance with the Manufacturer's Specifications, and the OPTICOM EVP cabling shall be installed in separate conduits and junction boxes between foundations. These separate conduit runs shall house Preemption Detector Cables/Conductors specified by the City.

F. The proposed OPTICOM EVP sequence diagram and timings shall be submitted to the City prior to installation.

G. See Contract/Project Special Provisions for more details.

46. All signal heads, pedestrian signal heads, and PF-2 poles (and associated equipment) shall be fabricated to be black in color (not painted after fabrication). All signal poles shall be powder coated black in color in accordance with City specifications. Contact City of Fairfax for requirements prior to ordering of any materials.

Note:
These are City of Fairfax signals maintained by the City of Fairfax Department of Public Works. Signal plans provided to VDOT for information only. Signal plans to be submitted to City of Fairfax for final approval.

TRAFFIC SIGNAL MODIFICATION

General Notes

City of Fairfax, Virginia

DATE:
September 2015

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	0029-151-105	-	11

TRAFFIC SIGNAL & UTILITIES LEGEND

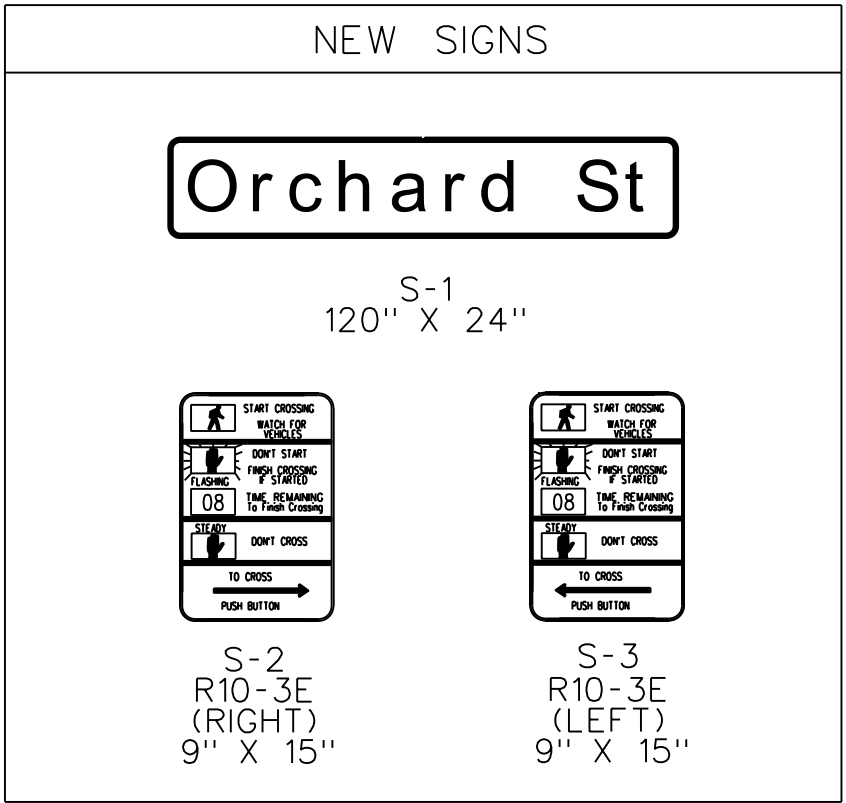
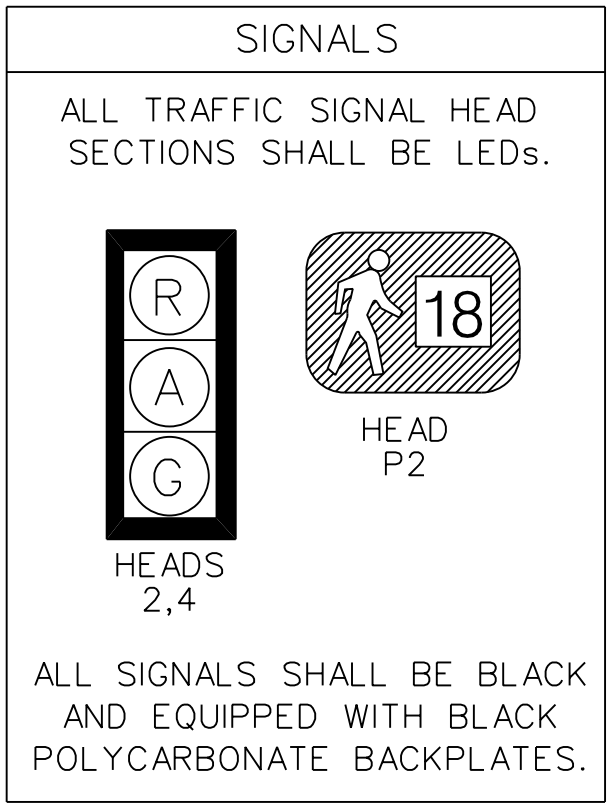
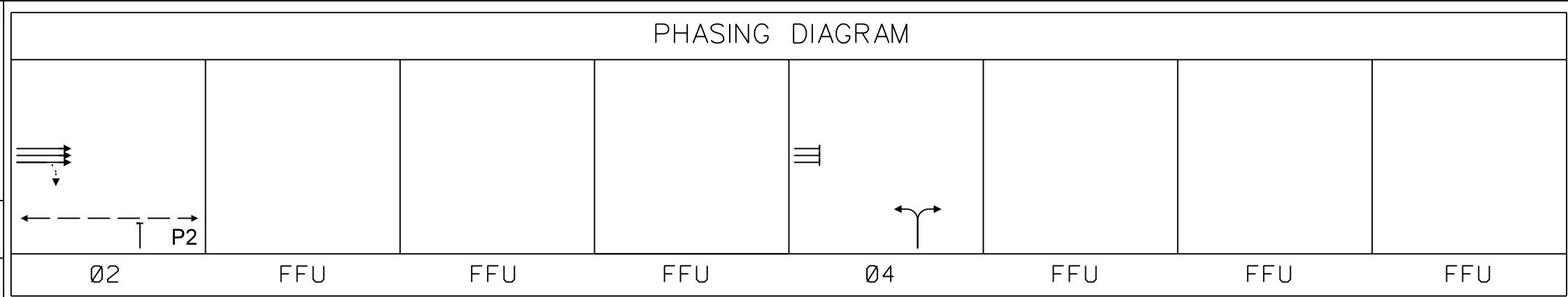
EXISTING	PROPOSED
ELECTRIC —E—	VEHICLE DETECTION ANTENNA —●—
TELEPHONE —T/Tg—	ONE WAY SIGNAL HEAD —<—
GAS —G—	BASE MOUNTED LOCAL CONTROL CABINET —[C]—
SEWER —S—	PEDESTAL POLE-METAL (PF-2) —[P]—
WATER —W—	JUNCTION BOX —[J]—
CABLE TV —CATV—	SERVICE DISCONNECT SWITCH BOX —[SD]—
GAS VALVE —(G)—	METER BOX —[M]—
WATER VALVE —(W)—	CONDUIT W/CABLE —[C]—
UTILITY POLE AND OVERHEAD UTILITIES —O—OHV—	PEDESTRIAN PUSH BUTTON —[P]—
	METAL POLE —[M]—

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

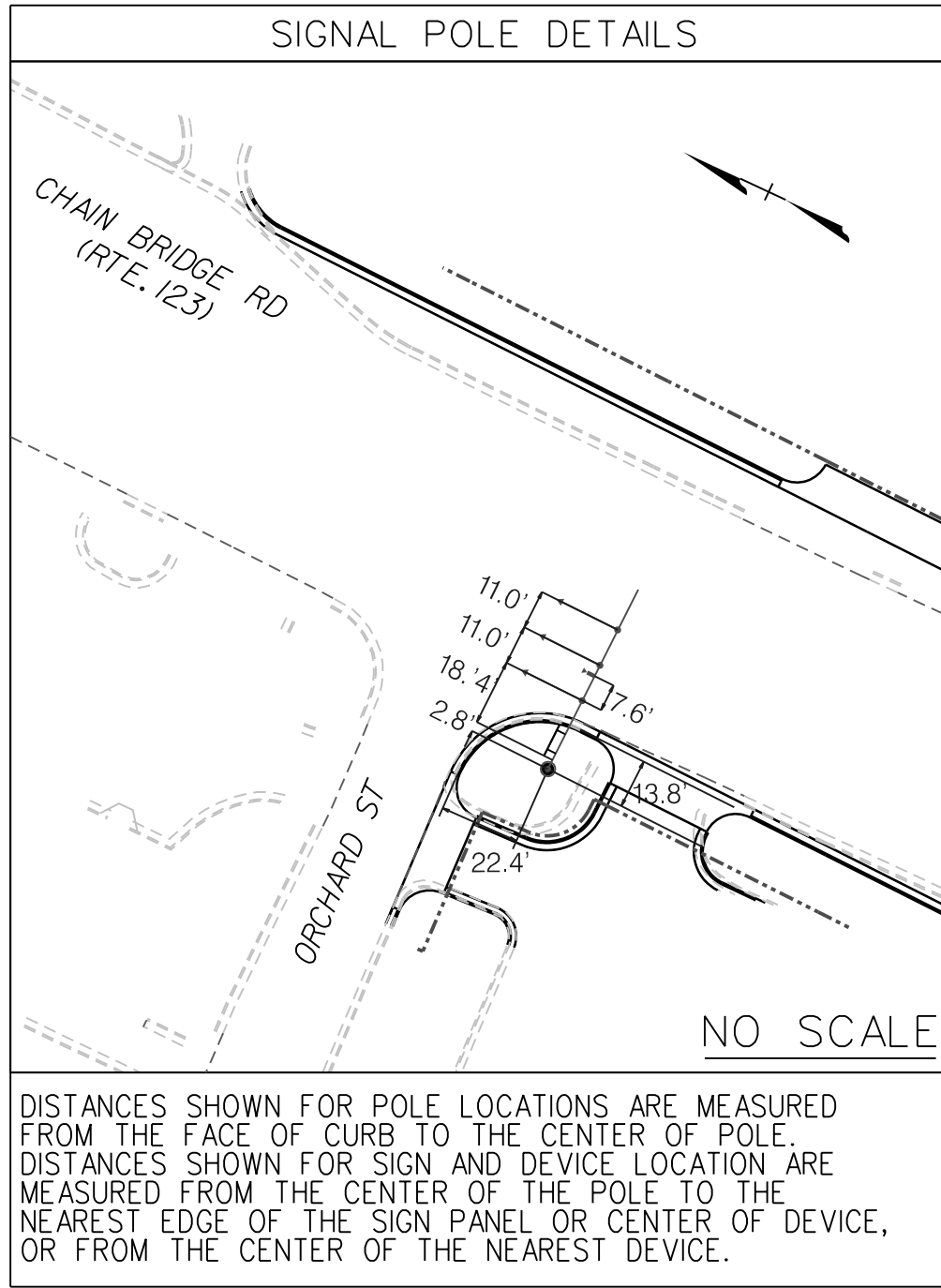
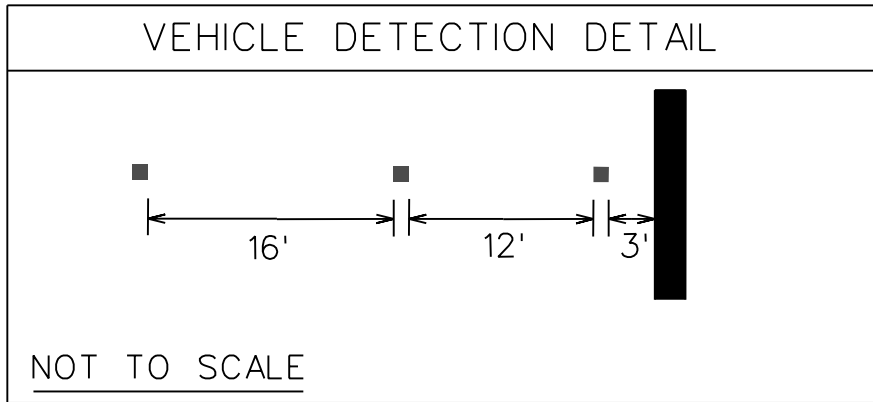
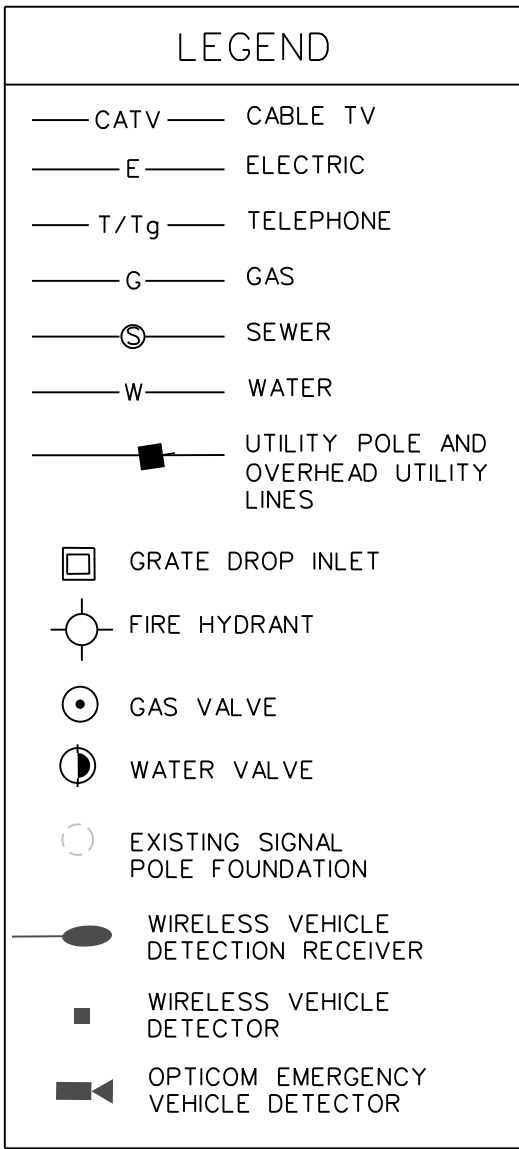
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GENERAL NOTES

SEE SHEET 11 FOR NOTES

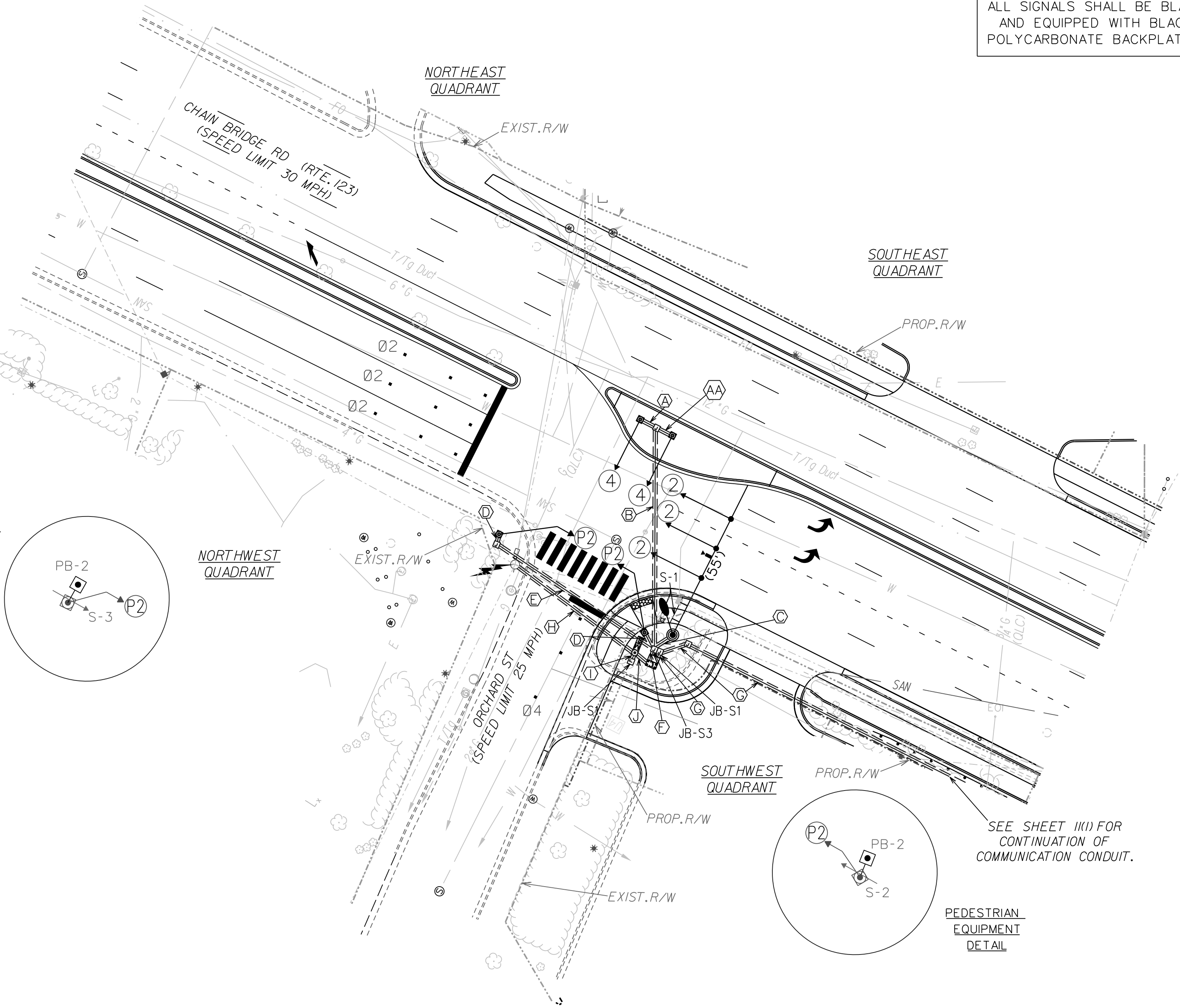


- CABLE & CONDUIT RUNS
- 1 - 3" CONDUIT
 - 1 - 14/7C FOR HEAD 4
 - 1 - #6 AWG (EGC)
 - 1 - 3" CONDUIT
 - 1 - 14/7C FOR HEAD 4
 - 1 - #6 AWG (EGC)
 - 1 - 4" BORED CONDUIT
 - 2 - 14/7C FOR HEADS 4
 - 1 - #6 AWG (EGC)
 - 1 - 3" CONDUIT
 - 1 - 14/7C FOR HEADS 2
 - 1 - EMER. PRE-EMPTION DETECT. CABLE
 - 1 - CAT5 CABLE FOR DETECTION
 - 1 - #6 AWG (EGC)
 - 1 - 3" CONDUIT
 - 1 - 14/7C FOR HEAD P2
 - 1 - 14/2C FOR PED PUSHBUTTON
 - 1 - #6 AWG (EGC)
 - 1 - 4" BORED CONDUIT
 - 1 - 14/7C FOR HEAD P2
 - 1 - 14/2C FOR PED PUSHBUTTON
 - 1 - #6 AWG (EGC)
 - 2 - 4" CONDUIT
 - 2 - 14/7C FOR HEADS 2,4
 - 2 - 14/7C FOR HEAD P2
 - 2 - 14/2C FOR PED PUSHBUTTON
 - 1 - EMER. PRE-EMPTION DETECT. CABLE
 - 1 - CAT5 CABLE FOR DETECTION
 - 2 - #6 AWG (EGC)
 - 1 - 3" CONDUIT (SPARE)
 - 1 - #6 AWG (EGC) FOR SPARE
 - 2 - 3" CONDUIT
 - 2 - 12 SINGLE MODE FIBER OPTIC CABLE
 - 1 - 2" BORED CONDUIT W/ 1000 LB. PULL ROPE (FOR ELEC. SERVICE)
 - 1 - 1" CONDUIT
 - 1 - #6 AWG (EGC) FOR SERVICE GROUNDING
 - 1 - 1-1/4" CONDUIT (M)
 - 3 - #6 CABLES FOR ELEC. SERVICE



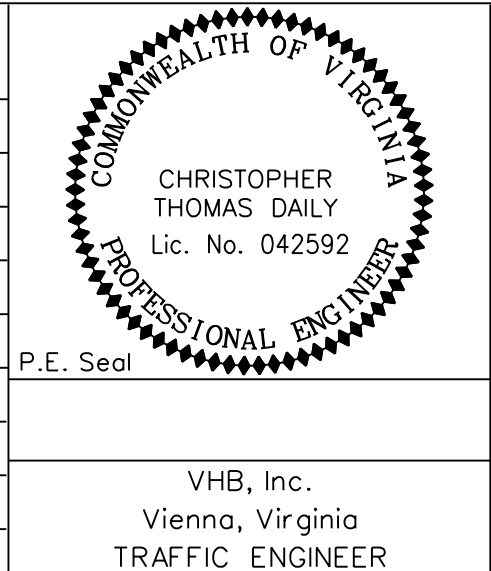
COLOR SEQUENCE CHART				
PHASE	2	4		
SIGNAL	R/W	R/W	FLASH	
2	G		A	
4		G	R	
P2	WALK	DW	BLANK	

NOTE: BLANK SPACES REPRESENT A RED DISPLAY. WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.



REVISIONS

Initial



FINAL PLAN

TRAFFIC SIGNAL INSTALLATION
CHAIN BRIDGE RD (RTE. 123) &
ORCHARD ST
CITY OF FAIRFAX

VHB, Inc.
Vienna, Virginia
TRAFFIC ENGINEER

Vanasse Hangen Brustlin, Inc.
Engineers, Planners & Scientists
8300 Boone Blvd, Suite 700
Vienna, VA 22182 (703) 847-3071

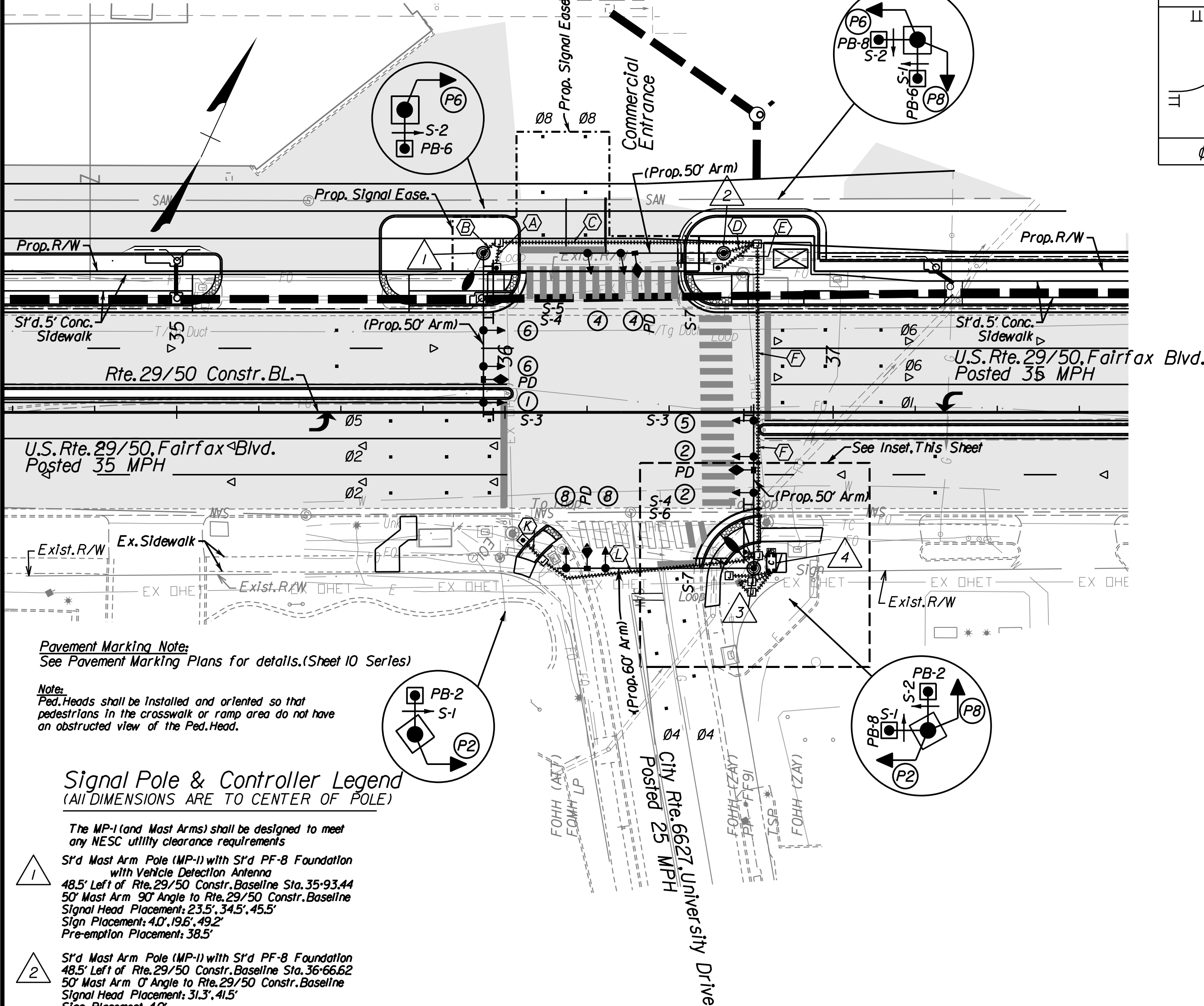
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SCALE: 1"=25'

Date: AUGUST 2015
File: 33545.00 Sheet: 11(2)

DRAWN: NJK/AA DESIGNED: NJK/AA CHECKED: CD

PLAN NO. PROJECT FILE NO. SHEET NO.

PROJECT MANAGER Wendy Black Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Rinker Design Assoc., P.C. (703) 368-7373 & V.H.R. (703) 847-3071
SUBSURFACE UTILITY PROVIDED BY AccuMark (2011)



Pavement Marking Note:
See Pavement Marking Plans for details. (Sheet 10 Series)

Note:
Ped. Heads shall be installed and oriented so that pedestrians in the crosswalk or ramp area do not have an obstructed view of the Ped. Head.

Signal Pole & Controller Legend (ALL DIMENSIONS ARE TO CENTER OF POLE)

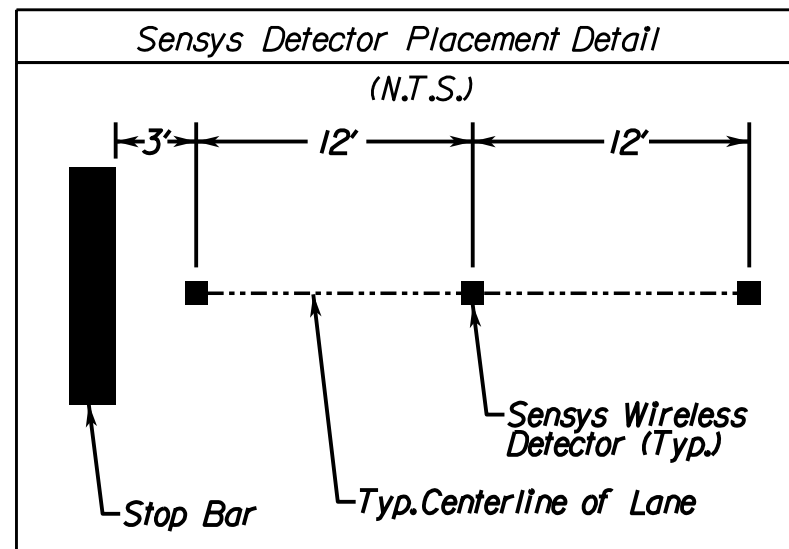
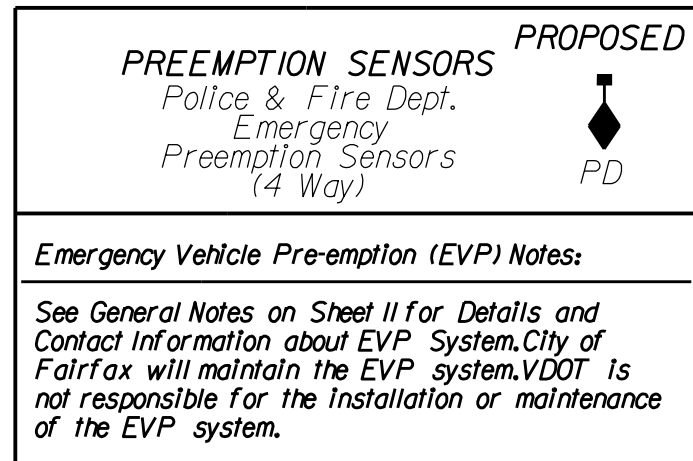
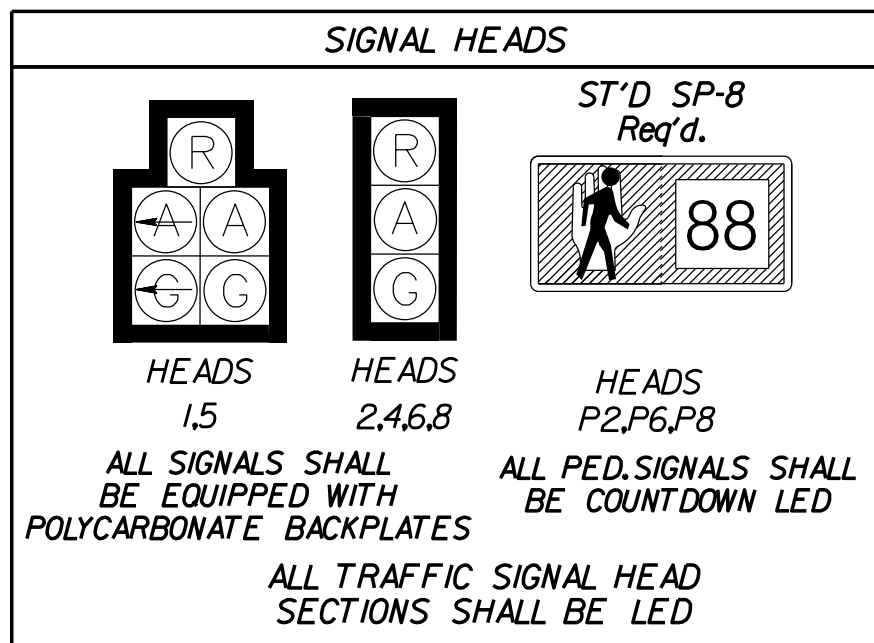
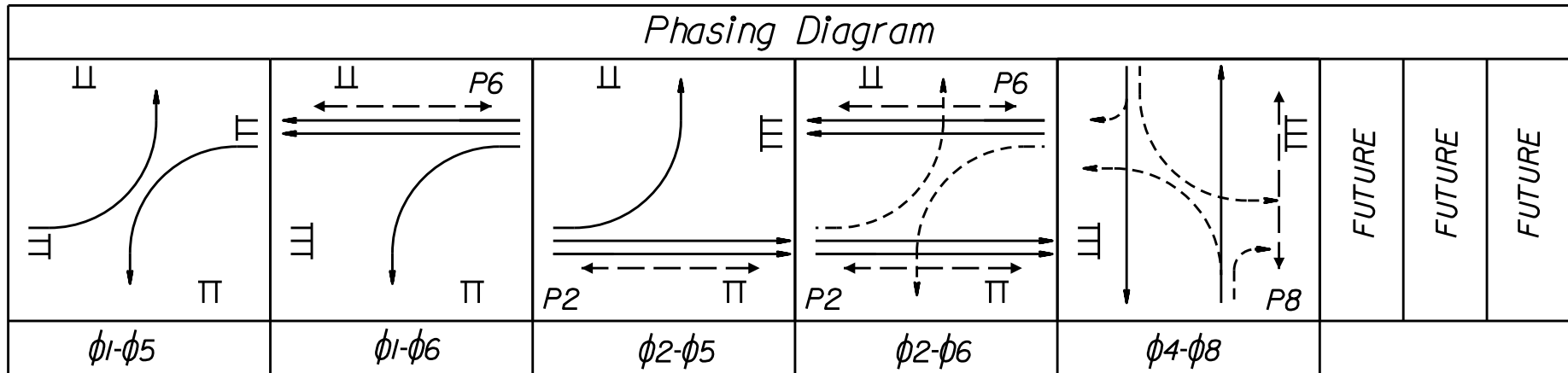
1. The MP-1 (and Mast Arms) shall be designed to meet any NESC utility clearance requirements
2. S'd Mast Arm Pole (MP-1) with S'd PF-8 Foundation with Vehicle Detection Antenna
48.5' Left of Rte. 29/50 Constr. Baseline Sta. 35+93.44
50' Mast Arm 90° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 23.5', 34.5', 45.5'
Sign Placement: 40', 19.6', 49.2'
Pre-emption Placement: 38.5'
3. S'd Mast Arm Pole (MP-1) with S'd PF-8 Foundation with Vehicle Detection Antenna
48.5' Left of Rte. 29/50 Constr. Baseline Sta. 36+66.62
50' Mast Arm 0° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 31.3', 41.5'
Sign Placement: 40'
Pre-emption Placement: 27.0'
4. S'd Dual Mast Arm Pole (MP-1) with S'd PF-1 Foundation and Vehicle Detection Antenna
47.5' Left of Rte. 29/50 Constr. Baseline Sta. 36+69.03
50' Mast Arm 90° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 34.0', 45.0'
Sign Placement: 40', 19.6', 46.6'
Pre-emption Placement: 30.0'
5. 60' Mast Arm 90° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 45.2', 57.2'
Sign Placement: 10.0'
Pre-emption Placement: 50.7'
6. Prop. Controller Cabinet and Foundation
S'd CF-1 Controller Foundation Req'd
Cabinet Doors located on right side of pad when looking north.

PROP. SIGNAL SIGNS

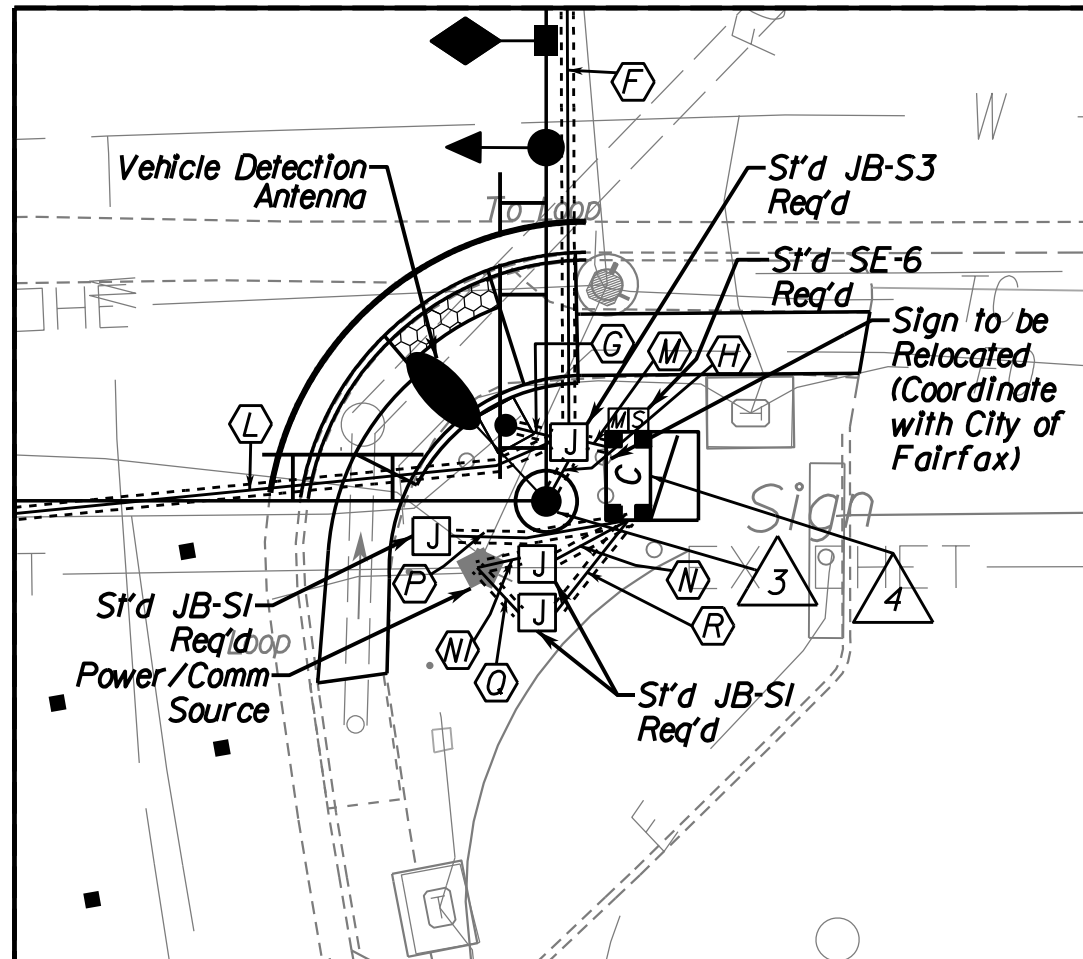
SEE SHEETS 11(6) AND 11(7) FOR STREET NAME SIGN DETAILS

COLOR SEQUENCE CHART									
PHASE	1	2	5	6	1-5	1-6	2-5	2-6	4-8
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W
1	←G/R			G	←G/R	←G/G		G	A
2		G					G	G	A
4								G	R
5		G	←G/R	←G/R		←G/G	G		A
6				G		G		G	A
8									G
P2		*WALK				*WALK	*WALK		BLANK
P6				*WALK		*WALK		*WALK	BLANK
P8								*WALK	BLANK

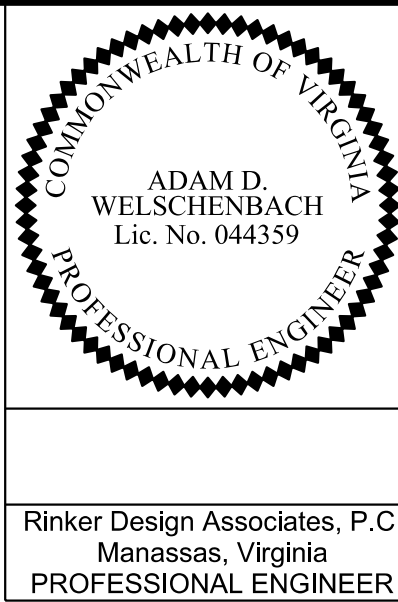
NOTE: BLANK SPACES REPRESENT A RED DISPLAY.
* WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.



SIGNAL CONDUIT RUN DETAILS (N.T.S.)



- Notes:**
- Contractor shall re-establish power service from existing power service connection. Power service connection shall be upgraded to meet current VDOT S'd SE-6 and Dominion Power Service requirements. Contractor is solely responsible (including any costs thereof, including hook-up fees, costs for work to be completed by power company, etc.) for coordinating with Dominion Power to ensure adequate power service for the proposed signal modifications. Any costs related to power service is not to be paid for separately and shall be incidental to the cost of the project.
 - The contractor shall be responsible for providing and maintaining communication to the controller at all times. The contractor is responsible for any costs associated with providing communication to the traffic signal. See Sheet General Notes on Sheet 11 for contact information and details. The costs related to connecting to existing interconnect for this signal shall not be paid for separately and shall be incidental to the cost of the project.
 - All existing loop detectors shall be abandoned or removed. All proposed Sensys Wireless Detectors shall be installed so they are flush mounted after final surface course. Coordination with City of Fairfax Engineer is required for final location of detectors. City approval of locations is required prior to installation.
 - Existing Controller/Cabinet is to be removed and returned to City of Fairfax Signal shop following installation and acceptance by the City of the new Controller and operation of the newly reconstructed signal. Coordination with City required. The new Controller(s) shall not be utilized for any part of maintenance of traffic or TMP/SOC operations during construction.
 - Contractor shall be responsible for any damage done to the traffic signal during construction. The project shall have a qualified signal crew on-call at all times for any issue that may arise and need to be fixed immediately.
 - The Contractor is responsible for any cost associated for police officer use during construction. Fourteen (14) days notice is required to request police officer use for intersection control. This cost is not to be paid for separately and shall be incidental to the cost of the project.
 - The Contractor shall disconnect signal interconnect cable(s) and re-route/intercept to nearest available location to provide continuous interconnect service. Coordination with City Traffic Engineer is required prior to start of any work. Signal interconnect cable shall only be run from the utility pole to a S'd JB-SI and then run underground with a 2" conduit to the Controller.
 - See Sheet 11(5) for overview plan of signal interconnect in the City of Fairfax.
 - Contractor shall take care to ensure existing sidewalk and utilities are not disturbed during installation of conduits. Contractor is responsible for any damage to existing sidewalk or utilities, including disruption in utility service.
 - Unless otherwise noted on this plan, all proposed junction boxes shall be S'd JB-S2.



REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014 02/05/2015	VA.	-	0029-151-105 P101, P102, R201, C501	11(3)

CABLE AND CONDUIT RUNS

- (A) 1- 3" Conduit
1- 14/2C for PB-6 (Push Buttons)
1- 14/7C for P6 (Ped. Heads)
1- *6 AWG (EGC)
- (B) 1- 3" Conduit
2- 14/2C for Heads 1,6 (Signal Heads)
1- CAT-5 Wire for Veh. Detect. [For RPT]
1- Emer. Preemption Detect. Cable
1- *6 AWG (EGC)
- (C) 1- 4" Conduit (BORED)
1- 14/2C for PB-6 (Push Buttons)
2- 14/7C for Heads 1,6 (Signal Heads)
1- CAT-5 Wire for Veh. Detect. [For RPT]
1- Emer. Preemption Detect. Cable
1- *6 AWG (EGC)
- (D) 1- 3" Conduit
1- 14/7C for Heads 4 (Signal Heads)
1- Emer. Preemption Detect. Cable
1- *6 AWG (EGC)
- (E) 1- 3" Conduit
2- 14/2C for PB-6, PB-8 (Push Buttons)
2- 14/7C for P6, P8 (Ped. Heads)
1- *6 AWG (EGC)
- (F) 1- 4" Conduit (BORED)
3- 14/2C for PB-6, PB-8 (Push Buttons)
3- 14/7C for Heads 1,6 (Signal Heads)
1- CAT-5 Wire for Veh. Detect. [For RPT]
1- Emer. Preemption Detect. Cable
1- *6 AWG (EGC)
- (G) 1- 3" Conduit
2- 14/2C for PB-2, PB-8 (Push Buttons)
2- 14/7C for P2, P8 (Ped. Heads)
1- *6 AWG (EGC)
- (H) 1- 3" Conduit
3- 14/7C for Heads 2,5,8 (Signal Heads)
2- Emer. Preemption Detect. Cable
1- CAT-5 Wire for Veh. Detect. [For ACP]
1- *6 AWG (EGC)
- (K) 1- 3" Conduit
1- 14/2C for PB-2 (Push Buttons)
1- 14/7C for P2 (Ped. Heads)
1- *6 AWG (EGC)
- (L) 1- 4" Conduit (BORED)
1- 14/2C for PB-2 (Push Buttons)
1- 14/7C for P2 (Ped. Heads)
1- *6 AWG (EGC)
- (M) 1- 4" Conduit
6- 14/2C for PB-2, PB-6, PB-8 (Push Buttons)
4- Emer. Preemption Detect. Cable
2- CAT-5 Wire for Veh. Detect. [For ACP & RPT]
1- *6 AWG (EGC)
- (N) 1- 4" Conduit
6- 14/2C for P2, P6, P8 (Ped. Heads)
6- 14/7C for Heads 1,2,4,5,6,8 (Signal Heads)
1- *6 AWG (EGC)
- (O) 1- 3" Conduit (Spare)
1- *6 AWG (EGC) for Spare
- (P) 1- 1/4" Conduit (M)
3- *6 AWG (EGC) for Elec. Service
- (Q) 1- 2" Conduit
3- *6 AWG (EGC) for Elec. Service
Connect to Pole *FF91
- (R) 1- 1" Conduit
1- *6 AWG (EGC) for Elec. Grounding
- (S) 1- 2" Conduit
1- 1/4" LB Pull-Line to CC-2 Panel
2- Interconnect Cable
1- *6 AWG (EGC)
Connect to Communications Source
Connect to Pole *FF91
- (T) 1- 2" Conduit (M)
2- Interconnect Cable
1- *6 AWG (EGC)

NOTE(S):
EGC - Equipment Grounding Conductor
ACP - Access Point (SENSYS)
RPT - Repeater (SENSYS)
All Conduits are trenched unless directed to be bored

Note:

This is a City of Fairfax signal maintained by the City of Fairfax Department of Public Works. Signal plan provided to VDOT for information only. Signal plans to be submitted to City of Fairfax for final approval.

TRAFFIC SIGNAL MODIFICATION

Fairfax Boulevard (U.S. Route 29/50) at
University Drive (City Route 6627)

City of Fairfax, Virginia

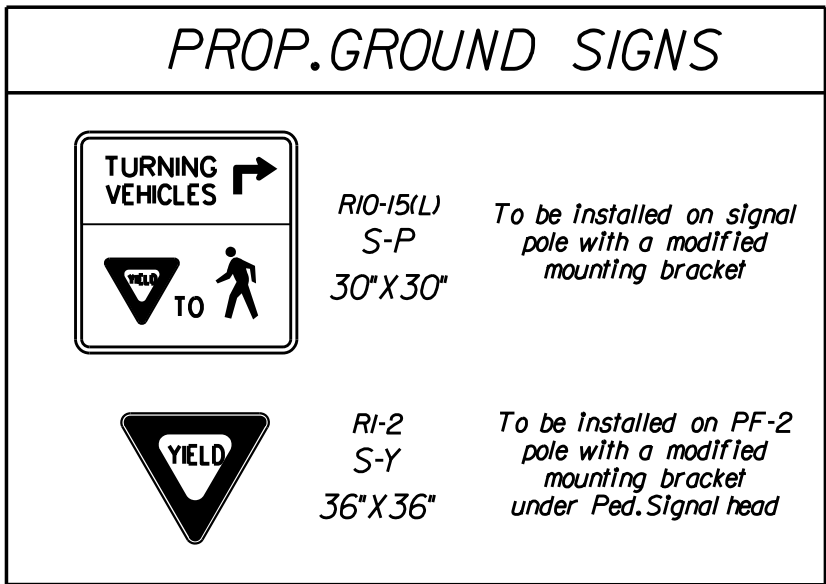
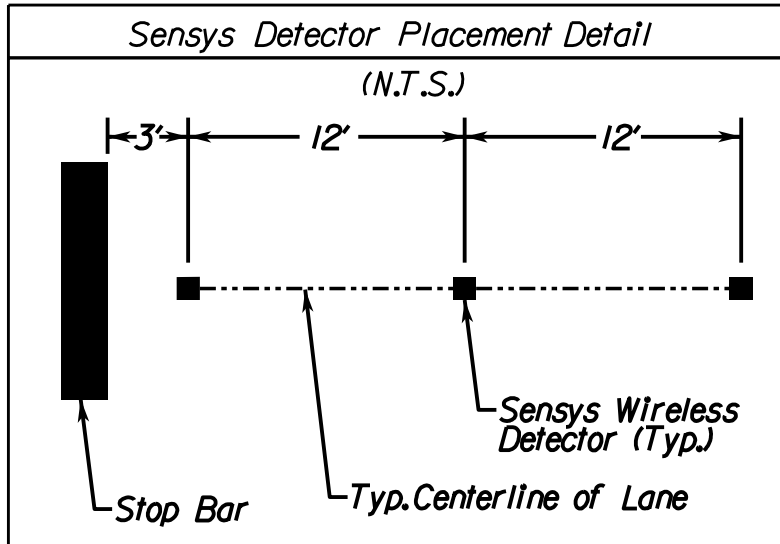
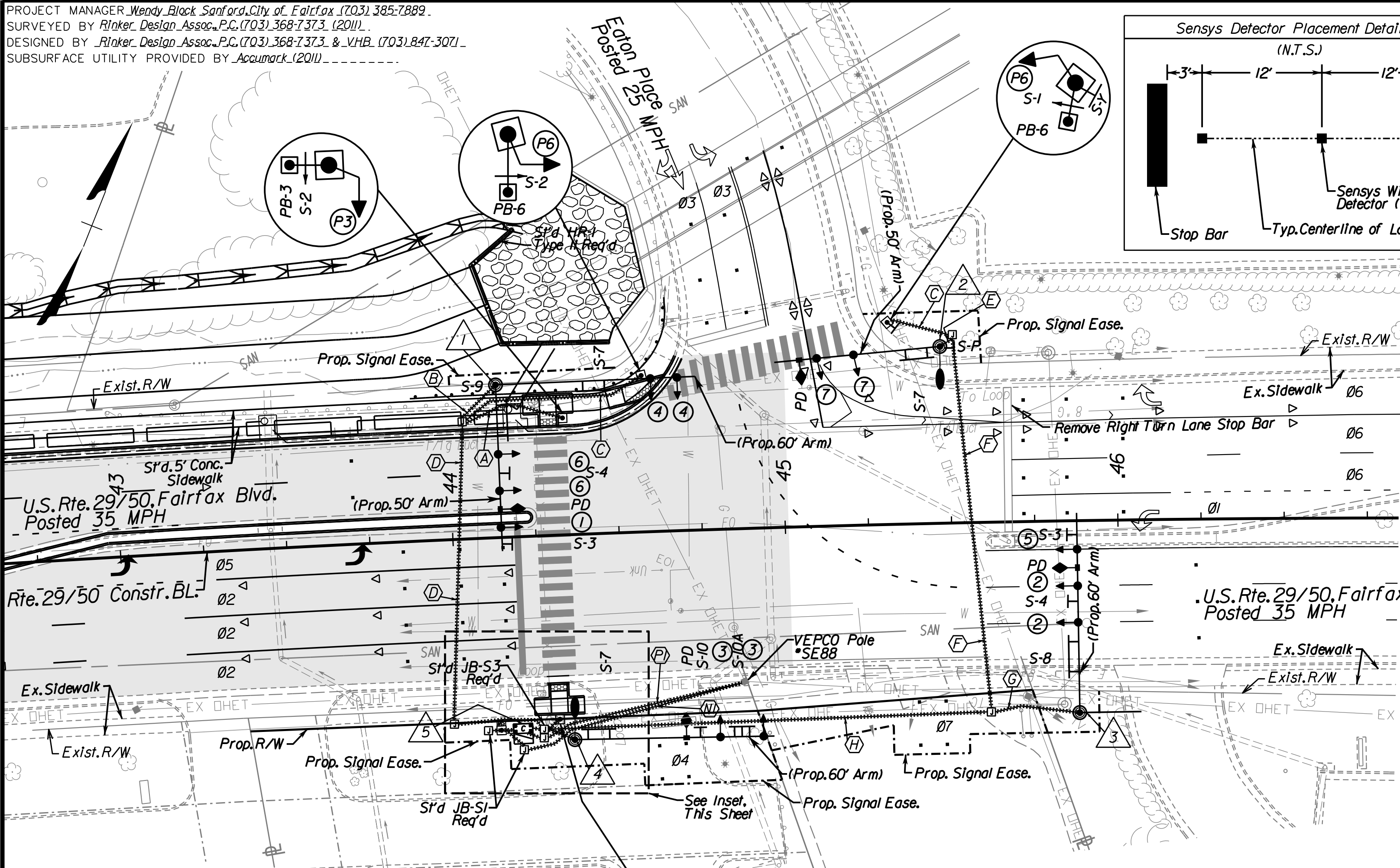
SCALE
0 25' 50'

DATE:
September 2015

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	0029-151-105	-	11(3)

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

PROJECT MANAGER Wendy Black Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Rinker Design Assoc., P.C. (703) 368-7373 & V.H.R. (703) 847-3071
SUBSURFACE UTILITY PROVIDED BY AccuMark (2011)

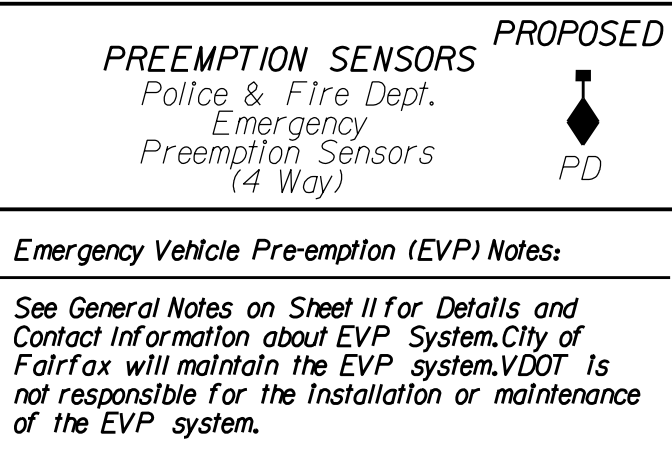
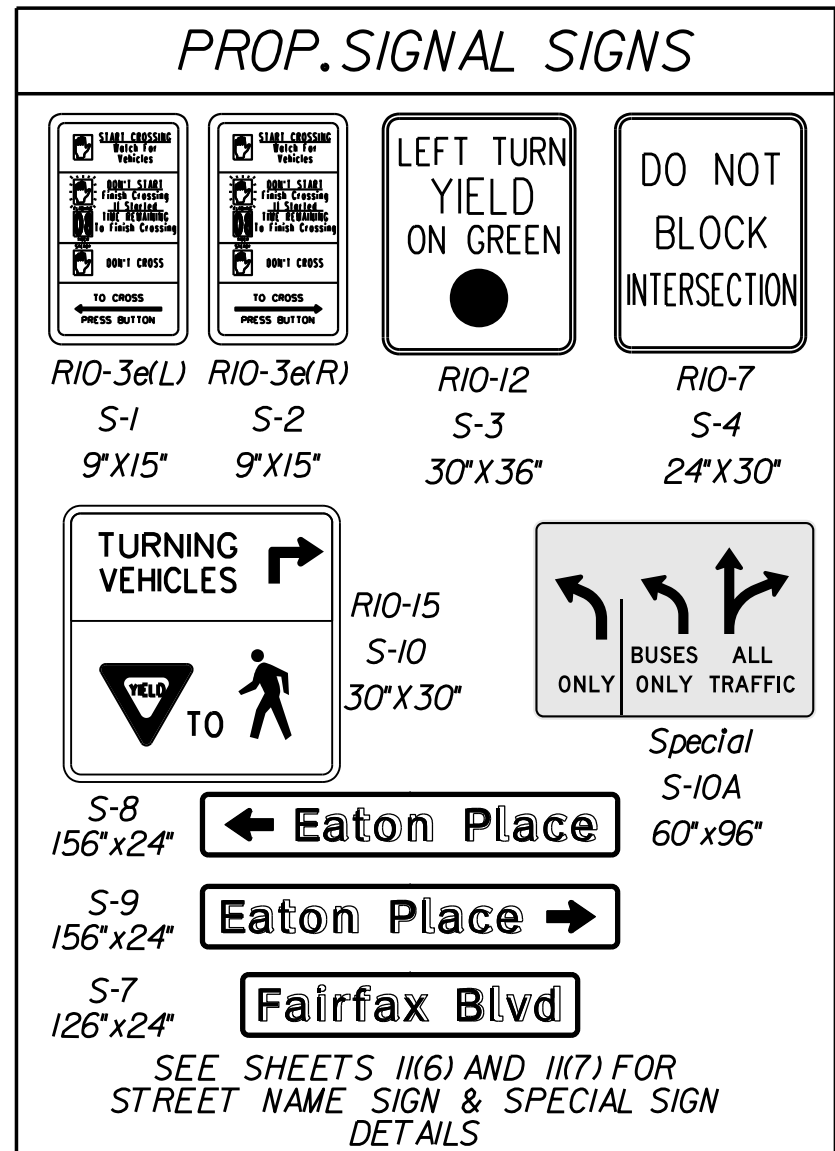
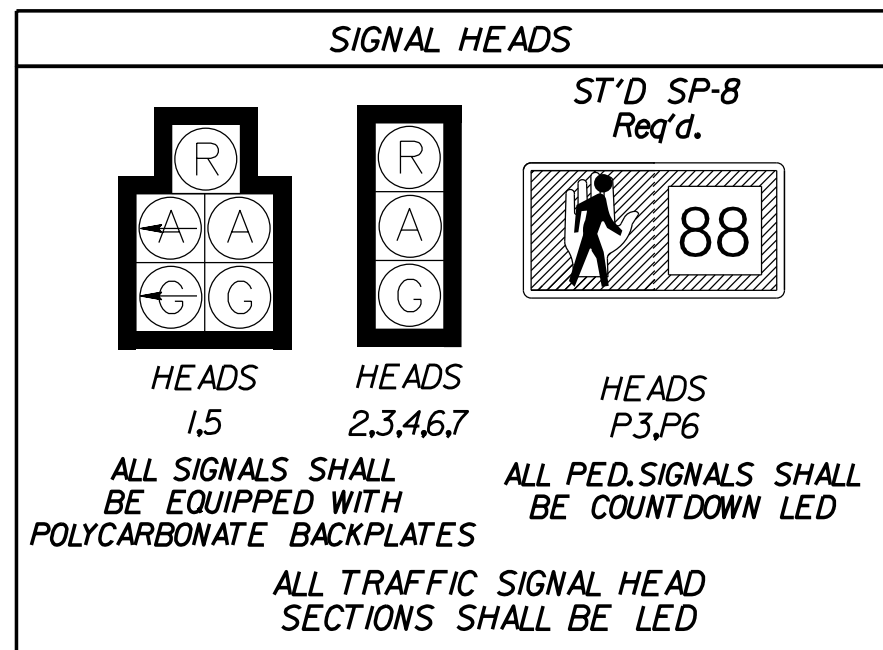


Signal Pole & Controller Legend (ALL DIMENSIONS ARE TO CENTER OF POLE)

- The MP-1 (and Mast Arms) shall be designed to meet any NESC utility clearance requirements.
- See Contract Specifications for Additional mast arm and pole requirements for this intersection.
1. Srd Dual Mast Arm Pole (MP-1) with Srd PF-8 Foundation
45.9' Left of Rte. 29/50 Constr. Baseline Sta. 44+41.72
50' Mast Arm 90° Angle to Rte. 29/50 Constr. Baseline
60' Mast Arm 0° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 20.9', 31.9', 42.9' (50' Mast Arm);
46.8', 54.6' (60' Mast Arm)
Sign Placement: 40', 18.2', 47.9' (50' Mast Arm);
26.2' (60' Mast Arm)
Pre-emption Placement: 37.5' (50' Mast Arm)
2. Srd Mast Arm Pole (MP-1) with Srd PF-8 Foundation and Vehicle Detection Antenna
53.1' Left of Rte. 29/50 Constr. Baseline Sta. 45+47.62
50' Mast Arm 42° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 26.1', 37.2'
Sign Placement: 40'
Pre-emption Placement: 42.5'
3. Srd Mast Arm Pole (MP-1) with Srd PF-1 Foundation
52.6' Right of Rte. 29/50 Constr. Baseline Sta. 44+34.28
60' Mast Arm 12° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 43.7', 57'
Sign Placement: 8', 37.5', 50.2'
Pre-emption Placement: 33.5'
4. Srd Mast Arm Pole (MP-1) with Srd PF-8 Foundation and Vehicle Detection Antenna
61.5' Right of Rte. 29/50 Constr. Baseline Sta. 44+34.28
60' Mast Arm 12° Angle to Rte. 29/50 Constr. Baseline
Signal Head Placement: 43.7', 57'
Sign Placement: 8', 37.5', 50.2'
Pre-emption Placement: 33.5'
5. Prop. Controller Cabinet and Foundation
Srd CF-1 Controller Foundation Req'd
Cabinet Doors located on right side of pad when looking west.

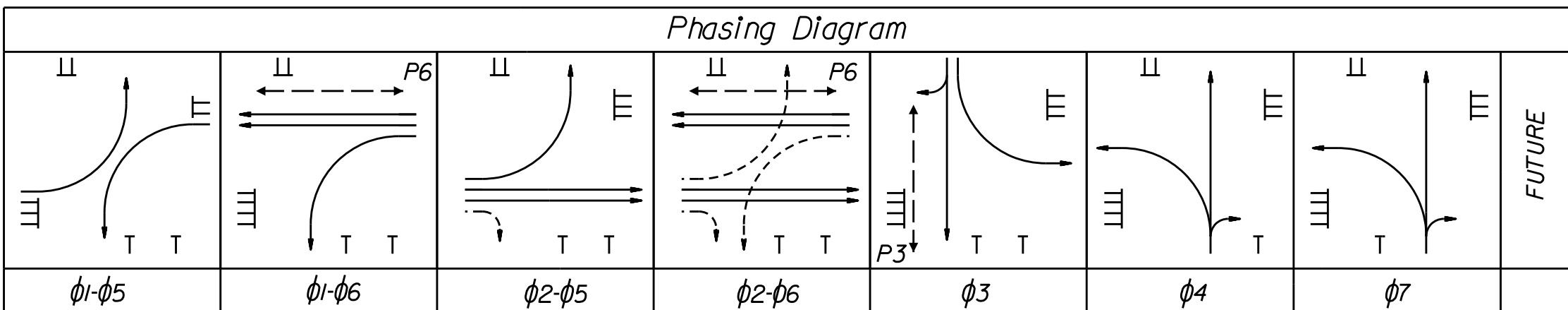
Pavement Marking Note:
See Pavement Marking Plans for details. (Sheet 10 Series)

Note:
Ped. Heads shall be installed and oriented so that pedestrians in the crosswalk or ramp area do not have an obstructed view of the Ped. Head.

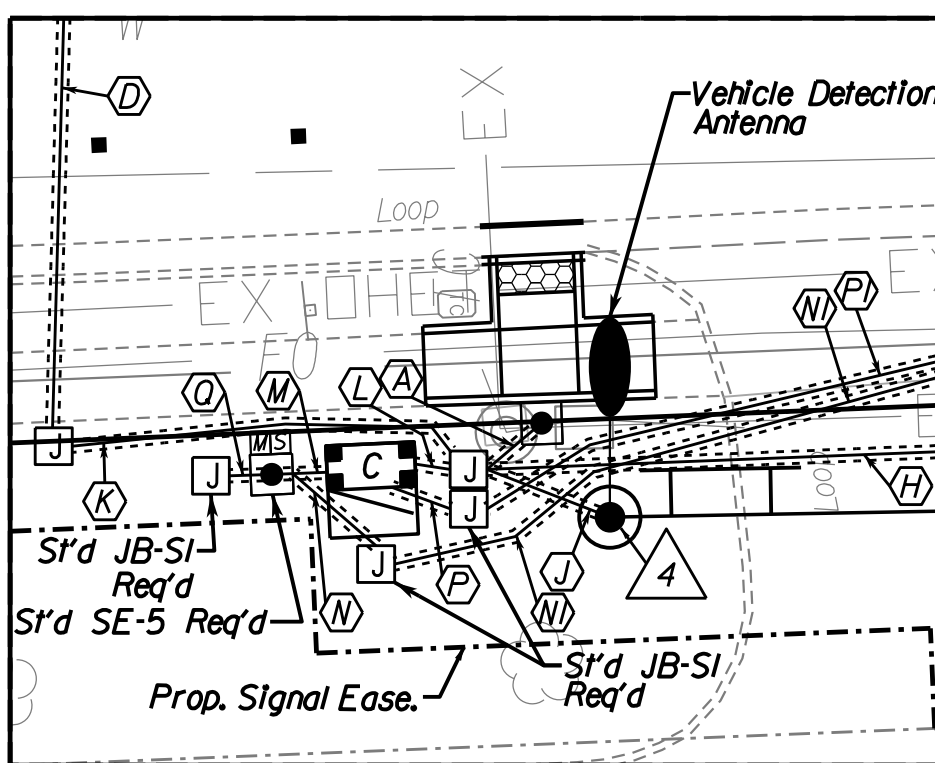


COLOR SEQUENCE CHART												
PHASE	1	2	3	4	5	6	7	1-5	1-6	2-5	2-6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	←6/R					G		←6/R	←6/G		G	A
2		G								G	G	A
3			G									R
4				G								R
5		G		←6/R				←6/R	←6/G	G	G	A
6					G			G		G	G	A
7							G					R
P3			←WALK									BLANK
P6					←WALK				←WALK	←WALK	←WALK	BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY.
← WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED;
OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

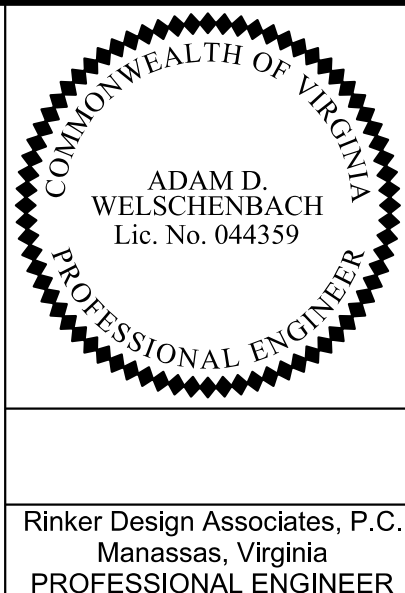


DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY PUBLIC WORKS DEPT.



Note:
This is a City of Fairfax signal maintained by the City of Fairfax Department of Public Works. Signal plan provided to VDOT for information only. Signal plans to be submitted to City of Fairfax for final approval.

NOTE(S):
EGC = Equipment Grounding Conductor
ACP = Access Point (SEWS/S)
RPT = Repeater (SEWS/S)
All Conduits are trenched unless directed to be bored



REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	11(4)

CABLE AND CONDUIT RUNS

- (A) 1- 3" Conduit
1- 14/2C for PB-3 (Push Buttons)
1- 14/7C for P3 (Ped. Heads)
1- 6 AWG (EGC)
- (B) 1- 3" Conduit
3 - 14/7C for Heads 1,4,6 (Signal Heads)
1- Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (C) 1- 3" Conduit
1- 14/2C for PB-6 (Push Buttons)
1- 14/7C for P6 (Ped. Heads)
1- 6 AWG (EGC)
- (D) 1- 4" Conduit (BORED)
2 - 14/2C for PB-3, PB-6 (Push Buttons)
2 - 14/7C for P3, P6 (Ped. Heads)
3 - 14/7C for Heads 1,4,6 (Signal Heads)
1- Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (E) 1- 3" Conduit
1- 14/7C for Heads 7 (Signal Heads)
1- CAT-5 Wire for Veh. Detect. [For RPT]
1- Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (F) 1- 4" Conduit (BORED)
1- 14/2C for PB-6 (Push Buttons)
1- 14/7C for P6 (Ped. Heads)
1- 14/7C for Heads 7 (Signal Heads)
1- CAT-5 Wire for Veh. Detect. [For RPT]
1- Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (G) 1- 3" Conduit
2 - 14/7C for Heads 2,5 (Signal Heads)
1- Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (H) 1- 4" Conduit (BORED)
1- 14/2C for PB-6 (Push Buttons)
1- 14/7C for P6 (Ped. Heads)
3 - 14/7C for Heads 2,5,7 (Signal Heads)
1- CAT-5 Wire for Veh. Detect. [For RPT]
2 - Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (J) 1- 3" Conduit
1- 14/7C for Heads 3 (Signal Heads)
1- Emer. Preemption Detect. Cable
1- CAT-5 Wire for Veh. Detect. [For ACP]
1- 6 AWG (EGC)
- (K) 1- 3" Conduit
2 - 14/2C for PB-3, PB-6 (Push Buttons)
2 - 14/7C for P3, P6 (Ped. Heads)
3 - 14/7C for Heads 1,4,6 (Signal Heads)
1- Emer. Preemption Detect. Cable
1- 6 AWG (EGC)
- (L) 1- 4" Conduit
4 - 14/2C for PB-3, PB-6 (Push Buttons)
4 - Emer. Preemption Detect. Cable
2 - CAT-5 Wire for Veh. Detect. [For ACP & RPT]
1- 6 AWG (EGC)
- 1- 4" Conduit
2 - 14/2C for P3, P6 (Ped. Heads)
7 - 14/7C for Heads 1,2,3,4,5,6,7 (Signal Heads)
1- 6 AWG (EGC)
- 1- 3" Conduit (Spare)
1- 6 AWG (EGC) for Spare
- (M) 1- 1-1/4" Conduit (M)
3 - 6 AWG (EGC) for Elec. Service
- (N) 1- 1-1/4" Conduit (M)
3 - 6 AWG (EGC) for Elec. Service
- (NV) 1- 2" Conduit
3 - 6 AWG (EGC) for Elec. Service
Connect to Pole * SE88
- (P) 1- 2" Conduit (M)
2 - Interconnect Cable
1- 6 AWG (EGC)
- (P) 1- 2" Conduit (M)
2 - Interconnect Cable
1- 6 AWG (EGC)
Connect to Communications Source
Connect to Pole * SE88
- (Q) 1- 1" Conduit
1- 6 AWG (EGC) for Elec. Grounding

TRAFFIC SIGNAL MODIFICATION

Fairfax Boulevard (U.S. Route 29/50)
at Eaton Place

City of Fairfax, Virginia

SCALE
0 25' 50'

September 2015

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	0029-151-105	-	11(4)

Office Locations
Rinker Design Associates, P.C.
10000 Old Dominion Blvd., Suite 200
Falls Church, VA 22041
Phone: (703) 368-7373
Fax: (703) 368-7373
www.rinker.com

Design Associates, P.C.
Civil Engineering
Transportation - Environmental
Right of Way Services

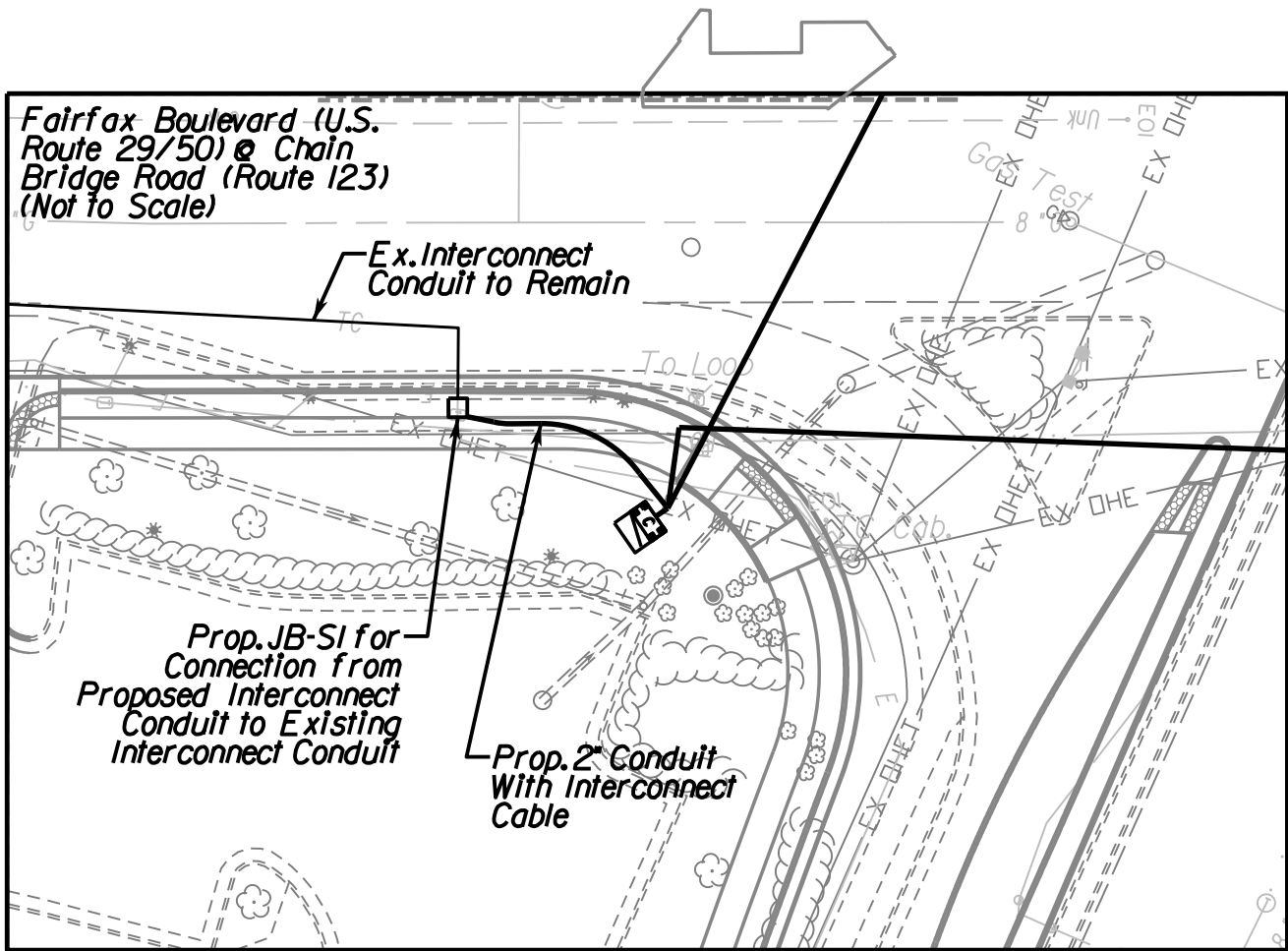
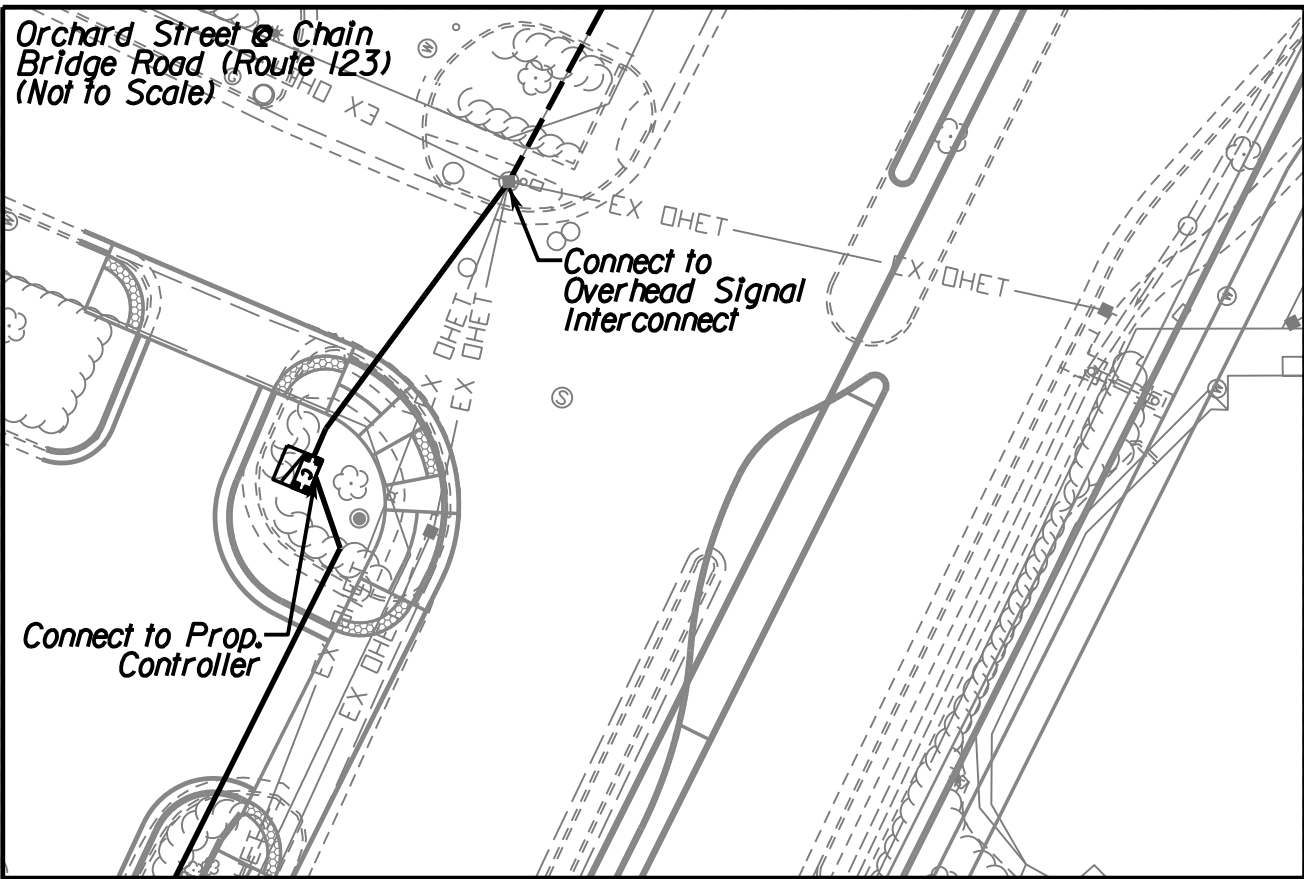
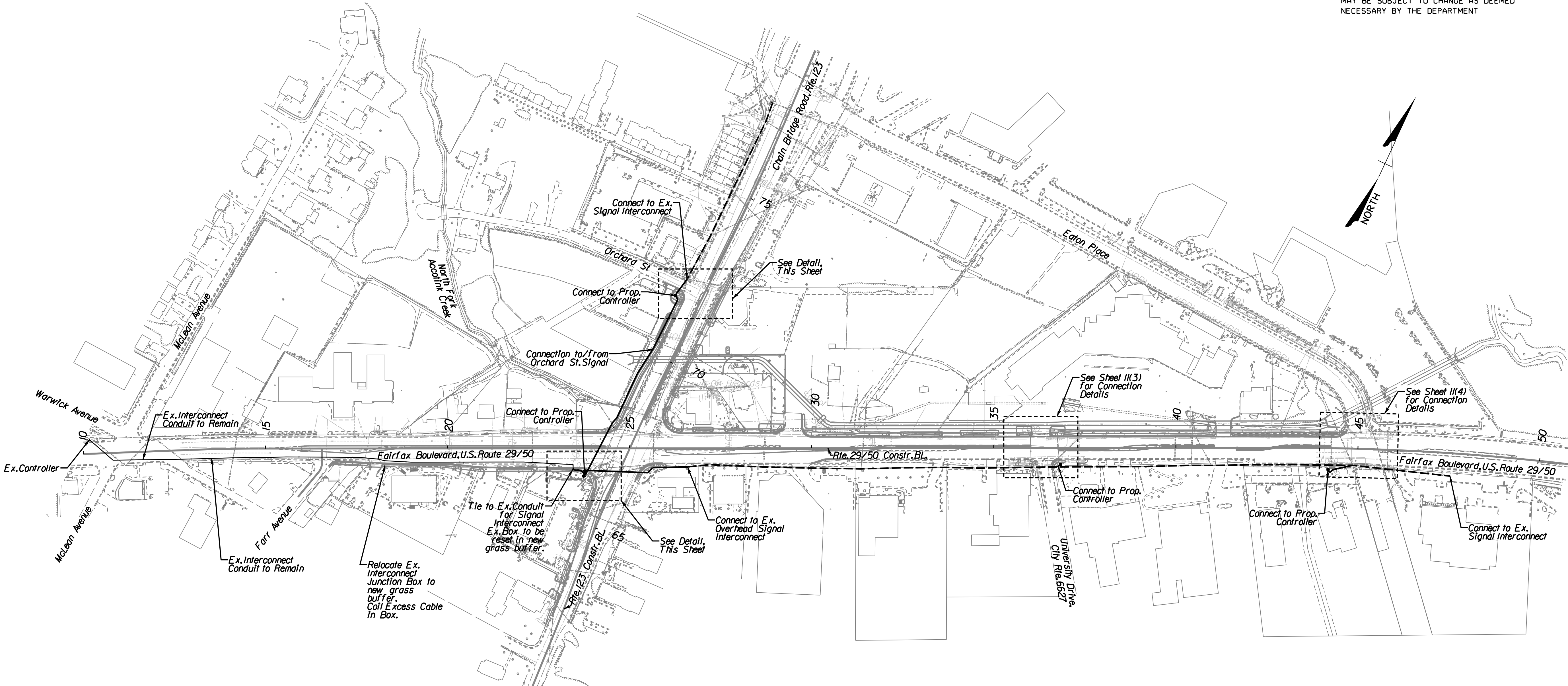
PROJECT MANAGER Wendy Black Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY AccuMark (2011)

Signal Interconnect Overview

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY

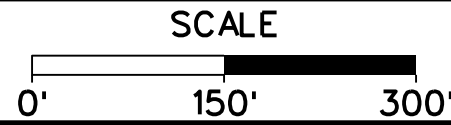
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	III(5)

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



LEGEND

- Proposed Overhead Signal Interconnect
- Proposed Underground Signal Interconnect & Conduit
- Existing Underground Signal Interconnect Conduit



PROJECT
0029-151-105

SHEET NO.
III(5)

4/20/2016

[illegible]

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	-	0029-151-105 P101, P102, R201, C501	III(6)

Note:
These are City of Fairfax signals maintained by the City of Fairfax Department of Public Works. Signal plans provided to VDOT for information only. Signal plans to be submitted to City of Fairfax for final approval.

TRAFFIC SIGNAL MODIFICATION			
Signal Plan Sign Details			
City of Fairfax, Virginia			
		DATE: September 2015	
PLAN NO. -	PROJECT 0029-151-105	FILE NO. -	SHEET NO. 11(6)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-05 P101, P102, R201, C501	III(7)

SIGN DETAIL

SIGN NUMBER	S-9
WIDTH x HGHT.	13'-0" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Blue
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR/UP	270	129.2	6	12	18

Panel Style: Std_D3-VI_blue Overhead Street Name.ssi
Dimensions are in inches tenths

(1) CleanviewHwy-5-W-R

Letter locations are panel edge to lower left corner

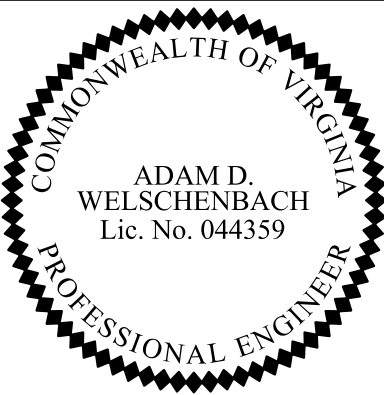
[illegible]

<u>Note:</u> <i>These are City of Fairfax signals maintained by the City of Fairfax Department of Public Works. Signal plans provided to VDOT for information only. Signal plans to be submitted to City of Fairfax for final approval.</i>	TRAFFIC SIGNAL MODIFICATION <i>Signal Plan Sign Details Cont.</i> <i>City of Fairfax, Virginia</i>			
			DATE: <i>September 2015</i>	
	PLAN NO. -	PROJECT <i>0029-151-105</i>	FILE NO. -	SHEET NO. <i>11(7)</i>

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

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)

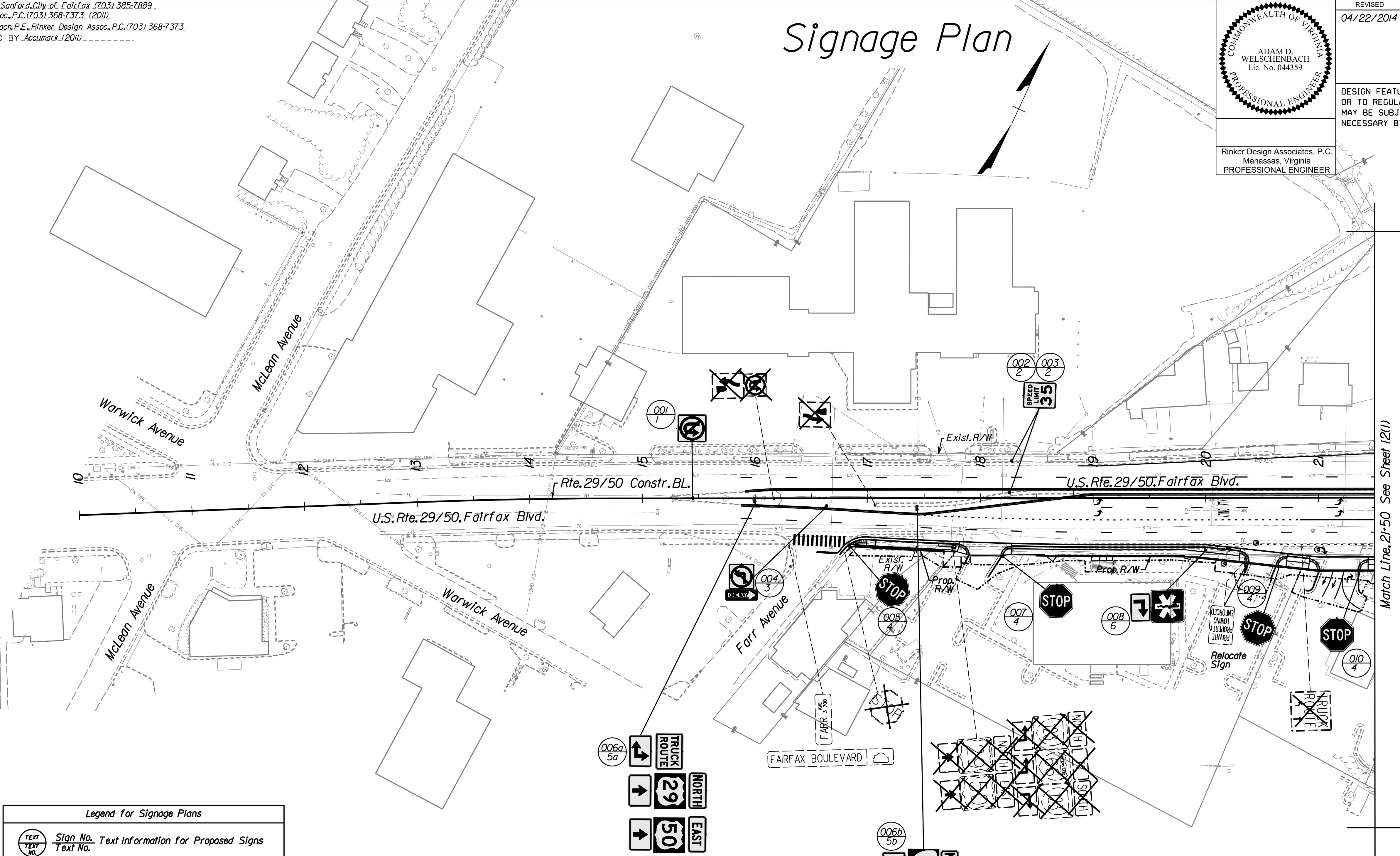
Signage Plan



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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
04/22/2014	VA.	-		0029-151-105 P101, P102, R201, C501	12

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

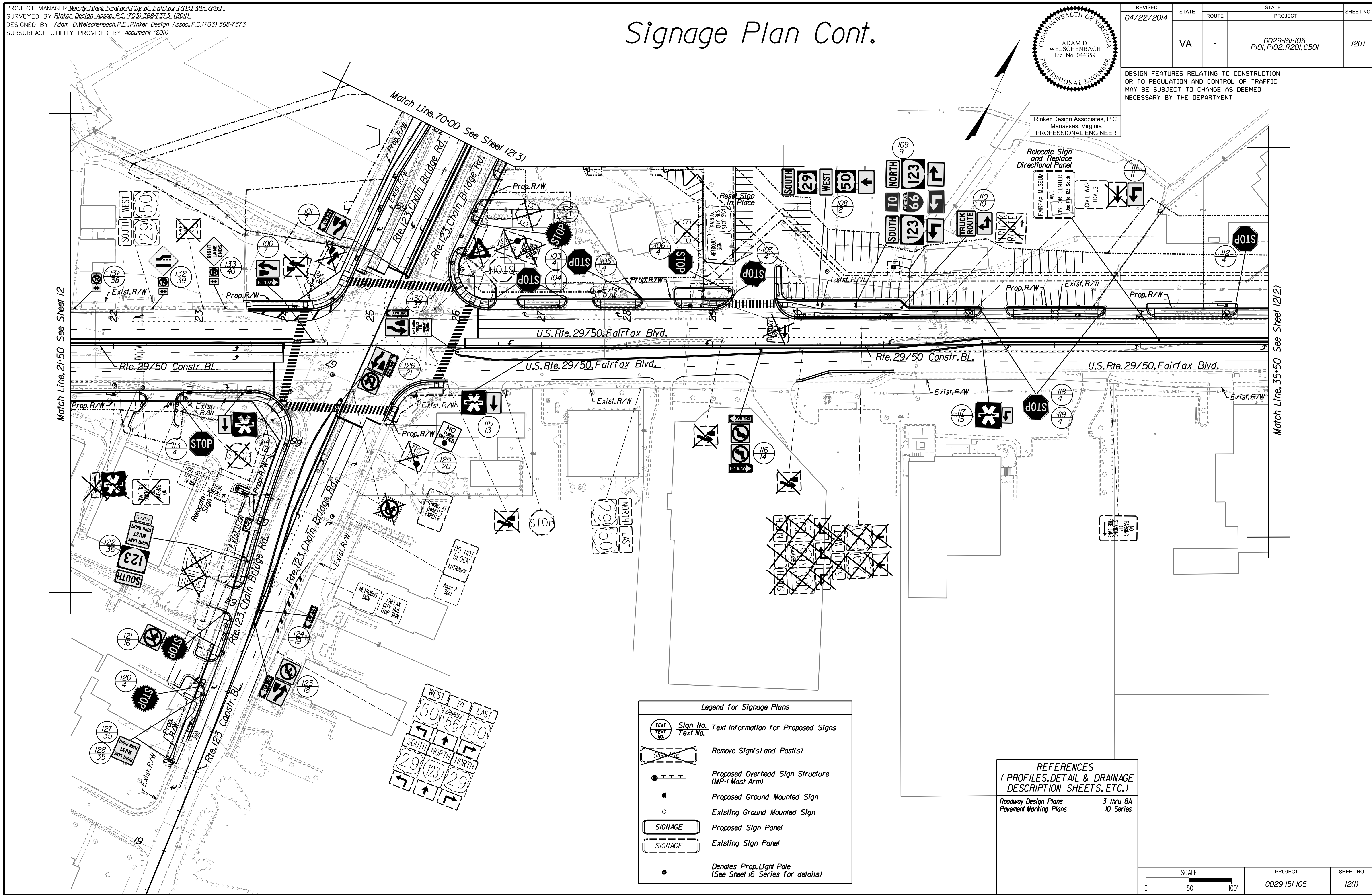


Legend for Signage Plans	
	Sign No. Text Information for Proposed Signs
	Text No.
	Remove Sign(s) and Post(s)
	Proposed Overhead Sign Structure (MP-1 Mast Arm)
	Proposed Ground Mounted Sign
	Existing Ground Mounted Sign
	Proposed Sign Panel
	Existing Sign Panel
	Denotes Prop. Light Pole (See Sheet 16 Series for details)

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Roadway Design Plans	3 thru 8A
Pavement Marking Plans	10 Series

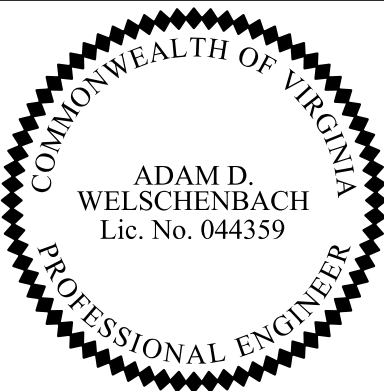
SCALE	PROJECT	SHEET NO.
0 50' 100'	0029-151-105	12

Signage Plan 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)

Signage Plan Cont.



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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	121/2

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

Legend for Signage Plans

TEXT
Sign No.
Text No.

Remove Sign(s) and Post(s)

Proposed Overhead Sign Structure (MF-I Mast Arm)

Proposed Ground Mounted Sign

Existing Ground Mounted Sign

Proposed Sign Panel

Existing Sign Panel

Denotes Prop. Light Pole (See Sheet 16 Series for details)

Match Line 21+50 See Sheet 121/1

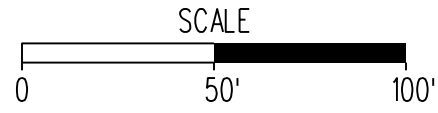
City Rte. 6627, University Drive

U.S. Rte. 29/50, Fairfax Blvd.

Rte. 29/50 Constr. BL.

U.S. Rte. 29/50, Fairfax Blvd.

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)
Roadway Design Plans 3 thru 8A
Pavement Marking Plans 10 Series



PROJECT	SHEET NO.
0029-151-105	121/2

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)

Signage Plan Cont.

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
04/22/2014	VA.	-		0029-151-105 P101, P102, R201, C501	12(3)

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

Legend for Signage Plans

TEXT
TEXT NO.
Sign No. Text Information for Proposed Signs
Text No.

Remove Sign(s) and Post(s)

Proposed Overhead Sign Structure (MP-1 Mast Arm)

Proposed Ground Mounted Sign

Existing Ground Mounted Sign

Proposed Sign Panel

Existing Sign Panel

Denotes Prop. Light Pole (See Sheet 16 Series for details)

Legend for Sign Pole Details - See Contract Specifications for Pole Details

- S'd Mast Arm Pole (MP-1) with S'd PF-8 Foundation
60.5' Left of Rte 123 Constr. Baseline Sta. 70+23.65
60' Mast Arm 90° Angle to Rte. 123 Constr. Baseline
- S'd Mast Arm Pole (MP-1) with S'd PF-8 Foundation
59' Left of Constr. Baseline Sta. 76+59.36
50' Mast Arm 90° Angle to Rte. 123 Constr. Baseline

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

Roadway Design Plans 3 thru 8A
Pavement Marking Plans 10 Series

SCALE	PROJECT	SHEET NO.
0 50' 100'	0029-151-105	12(3)

PROJECT MANAGER Wendy Black 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)-----

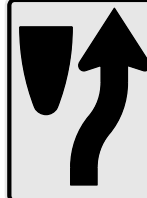
PERMANENT SIGNAGE SCHEDULE

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
ADAM D. WELSCHENBACH
Lic. No. 044359

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	12(4)

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

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE		SIGN AREA	STD. NO.	REMARKS
				WIDTH	HEIGHT			
				INCHES	INCHES	SQ.FT.		
1		001	STP-1, 2" - 12 GA. Single Post	24	24	4	R3-4	
2		002,003,200,201, 205,206	STP-1, 2 1/2" 10 GA. Single Post	30	36	7.5	R2-1	
3	 	004	STP-1, 2 1/2" 10 GA. Single Post	24 36	24 12	4 3	R3-2 R6-1(R)	
4		005,007,009,010,102, 103,104,105,106,107, 112,113,118,119,120,202	STP-1, 2" - 12 GA. Single Post	30	30	6.25	R1-1	
5a		006a	STP-1, 2 3/16" & 2 1/2" 10 GA. Double Post	24 21 24 24 21 24 24 21	18 15 12 24 15 12 24 15	3 2.18 2 4 2.18 2 4 2.18	R14-1 M6-6 M3-1 M1-4 M6-3 M3-2 M1-4 M6-3	Inner post shall be no less than 6'. Signs shall be installed per Std SP-5, Type P
5b		006b	STP-1, 2 3/16" & 2 1/2" 10 GA. Double Post	24 24 24 24 24 24 24 24	12 24 18 12 24 18 12 24 18	2 4 3 2 4 3 2 4 3	M3-1 M1-5 W16-6P M4-5 M1-1 W16-6P M3-3 M1-5 W16-6P(R)	Inner post shall be no less than 6'. Signs shall be installed per Std SP-5, Type P
6		008	STP-1, 2" - 12 GA. Single Post	24 24	24 18	4 3	D9-13 W16-6P(R)	
7	 	100,101,203,204,207 209	STP-1, 2 1/2" 10 GA. Single Post	36 24	12 30	3 5	R6-1(R) R4-7	

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE		SIGN AREA	STD. NO.	REMARKS
				WIDTH	HEIGHT			
				INCHES	INCHES	SQ.FT.		
8		108	STP-1, 2 1/2" 10 GA. Single Post	24 24 24 24 21	12 24 12 24 15	2 4 2 4 2.18	M3-3 M1-4 M3-4 M1-4 M6-3	
9		109	STP-1, 2 3/16" & 2 1/2" 10 GA. Double Post	24 24 24 24 24 24 24	12 24 18 12 24 18	2 4 3 2 4 3 2.18	M3-3 M1-5 W16-6P M4-5 M1-1 W16-6P(R) M3-1 M1-5 W16-6P(R)	Inner post shall be no less than 6'. Signs shall be installed per Std SP-5, Type P
10		110	STP-1, 2" - 12 GA. Single Post	24 21	18 15	3 2.18	R14-1 M6-6(R)	
11		111	STP-1, 2 3/16" & 2 1/2" 10 GA. Single Post	Exist. Exist. Exist. 24	Exist. Exist. Exist. 18	- - - 3	Exist. Exist. Exist. W6-6P	Inner post shall be no less than 6'. Existing sign panels shall be relocated to new STP-1
12		114	STP-1, 2" - 12 GA. Single Post	24 24	24 18	4 3	D9-13 W16-5P(R)	

Orientation of sign(s) shall follow plan and shall be installed per the the direction of the City Traffic 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 Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373
SUBSURFACE UTILITY PROVIDED BY Accumark (2011)-----

PERMANENT SIGNAGE SCHEDULE

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	12(5)

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

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE		SIGN AREA	STD. NO.	REMARKS
				WIDTH	HEIGHT			
				INCHES	INCHES	SQ.FT.		
13		115	STP-1, 2" - 12" GA. Single Post	24 24	24 18	4 3	D9-13 W16-5P	
14		116	STP-1, 2 1/2" x 10" GA. Single Post	36 24 24 36	12 24 24 12	3 4 4 3	R6-1(R) R3-2 R3-2 R6-1(R)	
15		117	STP-1, 2" - 12" GA. Single Post	24 12	24 18	4 1.5	D9-13 W16-6	
16		121	STP-1, 2 1/2" x 10" GA. Single Post	30 24	30 24	6.25 4	R1-1 R3-2	
17		310	STP-1, 2" - 12" GA. Single Post	24 24	12 24	2 4	M3-3 M1-5	
18		123	STP-1, 2 3/16" x 2 1/2" x 10" GA. Single Post	24 36 24	24 12 30	4 3 5	R3-1B R6-1(R) R4-7	Inner post shall be no less than 6'. Signs shall be installed per Std SP-5, Type E
19		124	STP-1, 2" - 12" GA. Single Post	36	12	3	R6-1(R)	
20		125	STP-1, 2" - 12" GA. Single Post	24	30	5	R10-11	

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE		SIGN AREA	STD. NO.	REMARKS
				WIDTH	HEIGHT			
				INCHES	INCHES	SQ.FT.		
21		126	STP-1, 2 3/16" x 2 1/2" x 10" GA. Single Post	24 36 24	30 12 24	5 3 4	R4-7 R6-1(R) R3-4	Inner post shall be no less than 6'. Signs shall be installed per Std SP-5, Type E
22		208	STP-1, 2 3/16" x 2 1/2" x 10" GA. Single Post	36 24 24	12 30 24	3 5 4	R6-1(R) R4-7 R3-4	Inner post shall be no less than 6'. Signs shall be installed per Std SP-5, Type E

*See Sheet 12(7) for Signs #23 & #24

Orientation of sign(s) shall follow plan and shall be installed per the the direction of the City Traffic Engineer

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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)-----

PERMANENT SIGNAGE SCHEDULE

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	12(6)

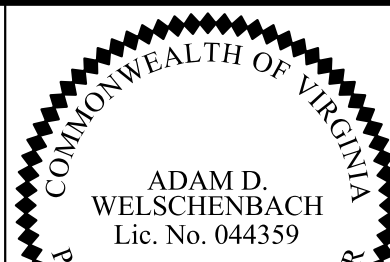
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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NECESSARY BY THE DEPARTMENT

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE		SIGN AREA SQ.FT.	STD. NO.	REMARKS
				WIDTH INCHES	HEIGHT INCHES			
25		303	STP-1, 2 1/2" IO GA. Single Post	30 30	30 30	6.25 6.25	RI-1 R3-7	
26		304	STP-1, 2 3/16" & 2 1/2" IO GA. Single Post	30 36 36	36 36 36	7.5 9 9	R2-1 W9-2 Custom	Inner post shall be no less than 6'. See Sht 2P(9) for details
27		305	STP-1, 2 1/2" IO GA. Single Post	36	36	9	W4-2(L)	
*See Sheet 12(7) for Signs #28, #29, & #30								
31		311	STP-1, 2 1/2" IO GA. Single Post	30	36	7.5	R2-1	
32		312	STP-1, 2 3/16" & 2 1/2" IO GA. Single Post	36 24	36 24	9 4	W4-1(L) R3-2	
33		313, 314	STP-1, 2 3/16" & 2 1/2" IO GA. Single Post	24 24 21	24 24 15	4 4 2.18	R3-1B R5-2 M6-2(L)	
34		315	STP-1, 2 1/2" IO GA. Single Post	24 24 21	24 24 15	4 4 2.18	R3-4 R5-2 M6-1(L)	

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE		SIGN AREA SQ.FT.	STD. NO.	REMARKS
				WIDTH INCHES	HEIGHT INCHES			
35		127, 128	STP-1, 2" - 12 GA. Single Post	30	30	6.25	R3-7	
36		122	STP-1, 2 1/2" IO GA. Single Post	24 24 30 24	12 24 30 12	2 4 6.25 2	M3-3 M1-5 R3-7 W16-9P	
37		130	STP-1, 2 1/2" IO GA. Single Post	24 36 24	30 12 30	5 3 5	R10-6 R6-1(R) R4-7	
38		131	STP-1, 2 1/2" IO GA. Single Post	30 21	30 15	6.25 2.19	R8-3 M6-4	
39		132	STP-1, 2 3/16" & 2 1/2" IO GA. Single Post	36 30 21	36 30 15	9 6.25 2.19	W4-2(R) R8-3 M6-4	
40		133	STP-1, 2 3/16" & 2 1/2" IO GA. Single Post	36 30 21	36 30 15	9 6.25 2.19	W9-1(R) R8-3 M6-4	

Orientation of sign(s) shall follow plan and shall be installed per the the direction of the City Traffic Engineer

PERMANENT SIGNAGE SCHEDULE

	REVISED	STATE	STATE		SHEET NO.
		VA.	ROUTE	PROJECT	
				<i>0029-151/105 P101, P102, R201, C501</i>	12(7)
	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. Manassas, Virginia PROFESSIONAL ENGINEER					

1. Unless otherwise specified, the Contractor shall have the option of refurbishing framing members on existing sign sign panels, or furnishing new sign panels with corresponding sign message for mounting on new breakaway post.
2. Unless otherwise approved by the Engineer, existing traffic signs, which are to be removed, shall remain in place until the new sign structure and critical message are in place.
3. The Contractor shall notify the Engineer at least five days prior to the proposed delivery date. Salvaged materials shall be delivered to the City during normal work hours and days and properly stored as directed by the Engineer.
4. All sign panels, framing members and miscellaneous hardware shall be salvaged by the Contractor for the City delivered intact to: City of Fairfax Signal/Sign Shop
5. A majority of the sign structures shall be located within 3' of the sign's proposed location or proposed relocation as shown on the plans. All signs shown to be placed within a proposed sign easement or signage easement, shall be placed within the easement and the proposed location shall not be altered. If installation of a proposed sign or proposed relocation of sign within a proposed signage easement will conflict with a utility service, the Contractor shall notify City 120 days prior to
6. installation of the sign to coordinate a new location.

Proposed signs and sign structures shall not impact underground existing utilities. Contractor is responsible for any disruption in Utility Service due to digging for signage structure. If Proposed signage location will

7. cause impact to existing Utility Service, sign location shall be relocated at the approval of the City Traffic Engineer
8. at no additional cost.

All signs, as necessary or directed by the Engineer shall be installed in accordance with SFD STP-1, with new breakaway metal posts. All signs, as necessary or directed by the Engineer, designated to be relocated shall be re-installed in such a manner that the relocated sign complies with SFD STP-1.

For all sign post foundations (when utilizing STP-1's) Contractor shall follow VDOT SFD STP-1.

All additional framing materials required for SP-5 panels (Types L, P, & U) shall be included with the price per square foot of panels.

9. The back of all new sign panels shall be fabricated black in color and all SFD STP-1 Posts shall be fabricated to be black in color.

Note: Measurement and payment items not applicable to the project have been removed from sheet.

A REMOVE AND DISPOSE SIGN(S), SIGN POST AND FOUNDATION
Will be measured in units of each and paid for at the contract unit price per each, which shall be full compensation for the removal and disposal of sign panels, posts and foundations to at least 2 feet below existing ground line, backfilling and restoration (top soil, seeding), and for all materials, labor, tools, equipment and incidentals necessary to complete the work.

B. RELOCATE EXISTING SIGN PANEL TYPE (SP-5)

Will be measured in units of each and paid for at the contract unit price per each, which shall be full compensation for removing existing sign panel, refurbishing framing members, furnishing and installing necessary back panels, erecting existing sign panels to new breakaway posts in conformance with S'd STP-1 and for all materials (including Concrete Class A1 For S'd STP-1 Foundation), labor, tools, equipment and necessary Incidentals to complete the work.

This pay item shall also include the cost to dispose the existing post, and the purchase of a new breakway post in conformance with S'd STP-1.

This pay item shall also include the cost to remove and dispose the existing post's foundation to at least 2 feet below existing ground line, backfilling and restoration (top selling and seeding).

Sign No.
Text No.

TEXT = The Top Section Indicates the Sign Number
 as Referenced on This Sheet

TEXT NO. = The Bottom Section Indicates the Text Number
 as Referenced on This Sheet

Some existing signs are shown for clarity and it is intended that they will remain. Existing signs in the field not shown on the plans are intended to remain or are not the property of the City of Fairfax.

Orientation of sign(s) shall follow plan and shall be installed per the the direction of the City Traffic Engineer

	PROJECT <i>0029-151-105</i>	SHEET NO. <i>12(7)</i>
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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)-----

SIGN DETAILS

COMMONWEALTH OF VIRGINIA

ADAM D. WELSCHENBACH

Lic. No. 044359

PROFESSIONAL ENGINEER

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	12(8)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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NECESSARY BY THE DEPARTMENT

SIGN DETAIL
NTS

SIGN NUMBER	24
WIDTH x HIGHT	5'-6" x 5'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Green
LEGEND/BORDER	TYPE: Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	6	20.9	24	24
M1_4	0	36	20.9	24	24
ARMED	45	25.7	3.1	12	18.9

Panel Style: NStd_MastArmPullthru.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
T	O										E 2000
13.3	18.6									10.4	6
T	O										E 2000
42.8	48.2									10.4	6
S	O	U	T	H							D 2000
6	11.7	17.3	22.3	26.9						25	7.6
W	E	S	T								D 2000
38.1	45.3	49.6	54.2							19.8	7.6

SIGN DETAIL
NTS

SIGN NUMBER	23
WIDTH x HIGHT	14'-6" x 4'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Green
LEGEND/BORDER	TYPE: Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	69.6	9	12	12
M1_4	0	95.6	9	12	12
R3_5	0	23.0	6	30	36
R3_5	0	151.0	6	30	36

Panel Style: NStd_MastArmPullthru.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
T	O										E 2000
70.5	75.8									10.4	6
T	O										E 2000
96.4	101.7									10.4	6
N	O	R	T	H							D 2000
63.1	69.3	74.9	79.5	84.1						25	7.6
E	A	S	T								D 2000
91.7	97	102.6	107.2							19.2	7.6

SIGN DETAIL
NTS

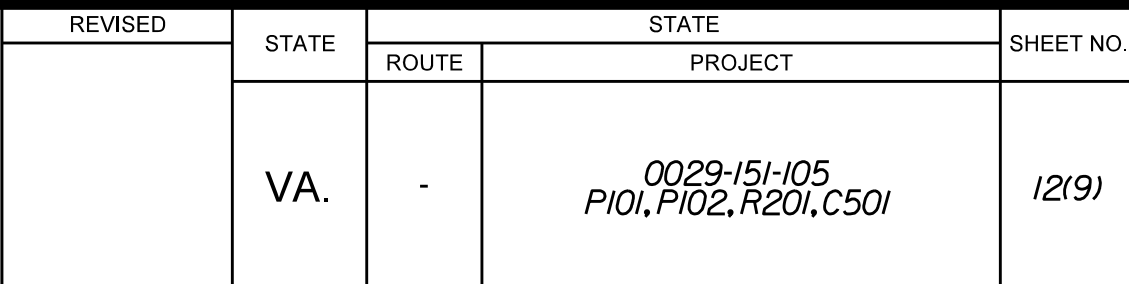
SIGN NUMBER	28
WIDTH x HIGHT	5'-0" x 4'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Green
LEGEND/BORDER	TYPE: Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	12.6	14.6	12	12
M1_4	0	38.6	14.6	12	12
ARDOWN	0	24.3	3.4	12	8.2

Panel Style: NStd_MastArmPullthru.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
T	O										E 2000
13.5	18.8									10.4	6
T	O										E 2000
39.4	44.7									10.4	6
N	O	R	T	H							D 2000
6.1	12.3	17.9	22.5	27.1						25	7.6
E	A	S	T								D 2000
34.7	40	45.6	50.2							19.2	7.6

SIGN DETAILS



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

[illegible][illegible][illegible]

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)
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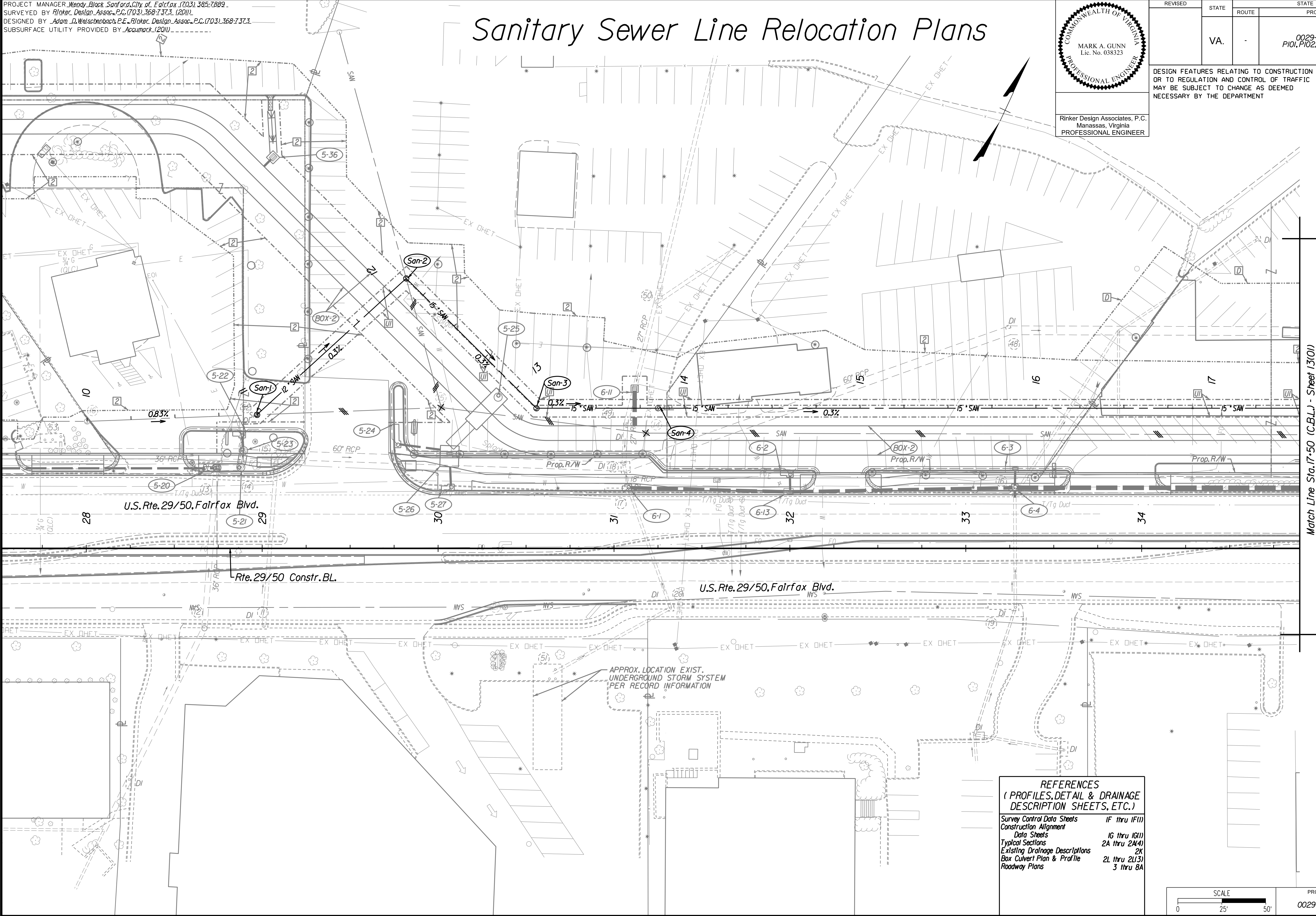
Sanitary Sewer Line Relocation Plans



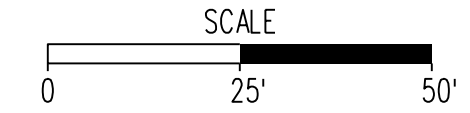
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		0029-151-105 P101, P102, R201, C501	13

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



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Control Data Sheets	1F thru 1F(11)
Construction Alignment	1G thru 1G(11)
Data Sheets	2A thru 2A(4)
Typical Sections	2K
Existing Drainage Descriptions	2L thru 2L(3)
Box Culvert Plan & Profile	3 thru 8A
Roadway Plans	



PROJECT	SHEET NO.
0029-151-105	13

Match Line Sta. 17+50 (C.B.L.) - Sheet 13(101)

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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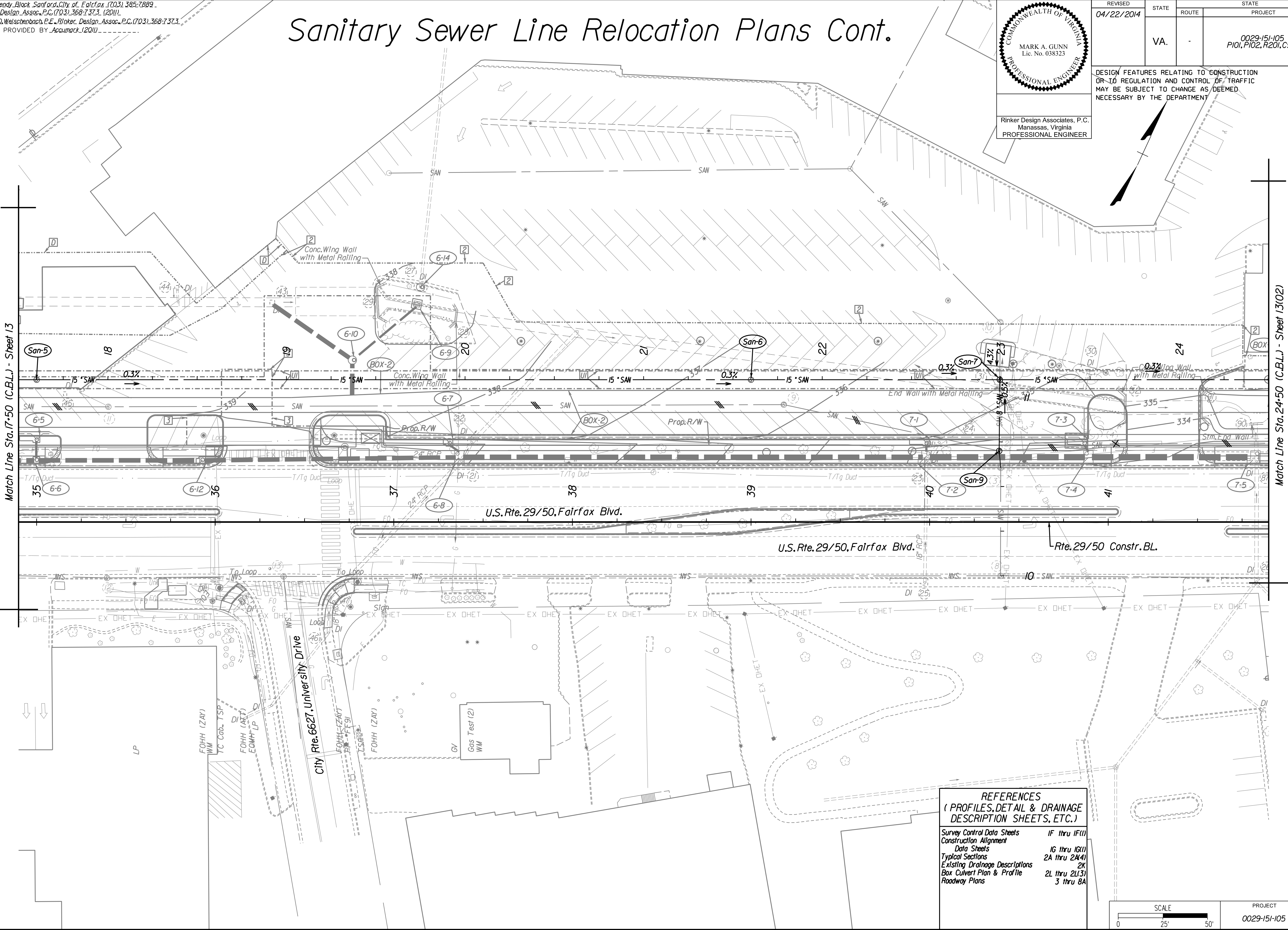
Sanitary Sewer Line Relocation Plans Cont.



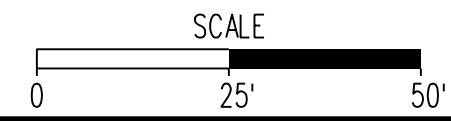
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
04/22/2014	VA.	-		0029-151-105 P101, P102, R201, C501	13(1)

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(11)
Construction Alignment	1G thru 1G(11)
Data Sheets	2A thru 2A(4)
Typical Sections	2K
Existing Drainage Descriptions	2L thru 2L(3)
Box Culvert Plan & Profile	3 thru 8A
Roadway Plans	



PROJECT	SHEET NO.
0029-151-105	13(1)

PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889
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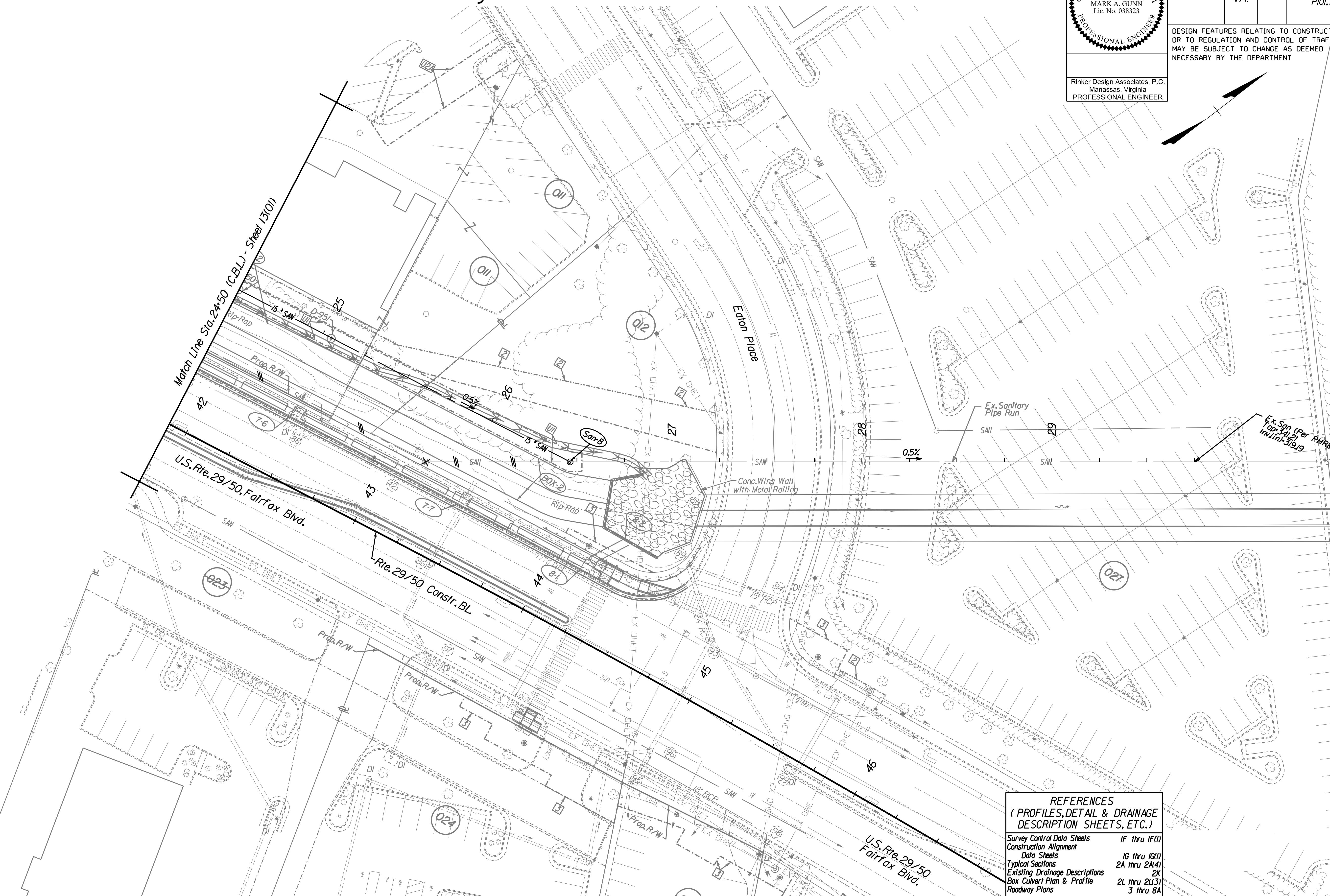
Sanitary/Water Line Relocation Plans Cont.

COMMONWEALTH OF VIRGINIA
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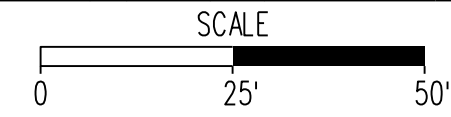
Rinker Design Associates, P.C.
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	13(2)

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)
Typical Sections	2A thru 2A(4)
Existing Drainage Descriptions	2L thru 2L(3)
Box Culvert Plan & Profile	3 thru 8A
Roadway Plans	

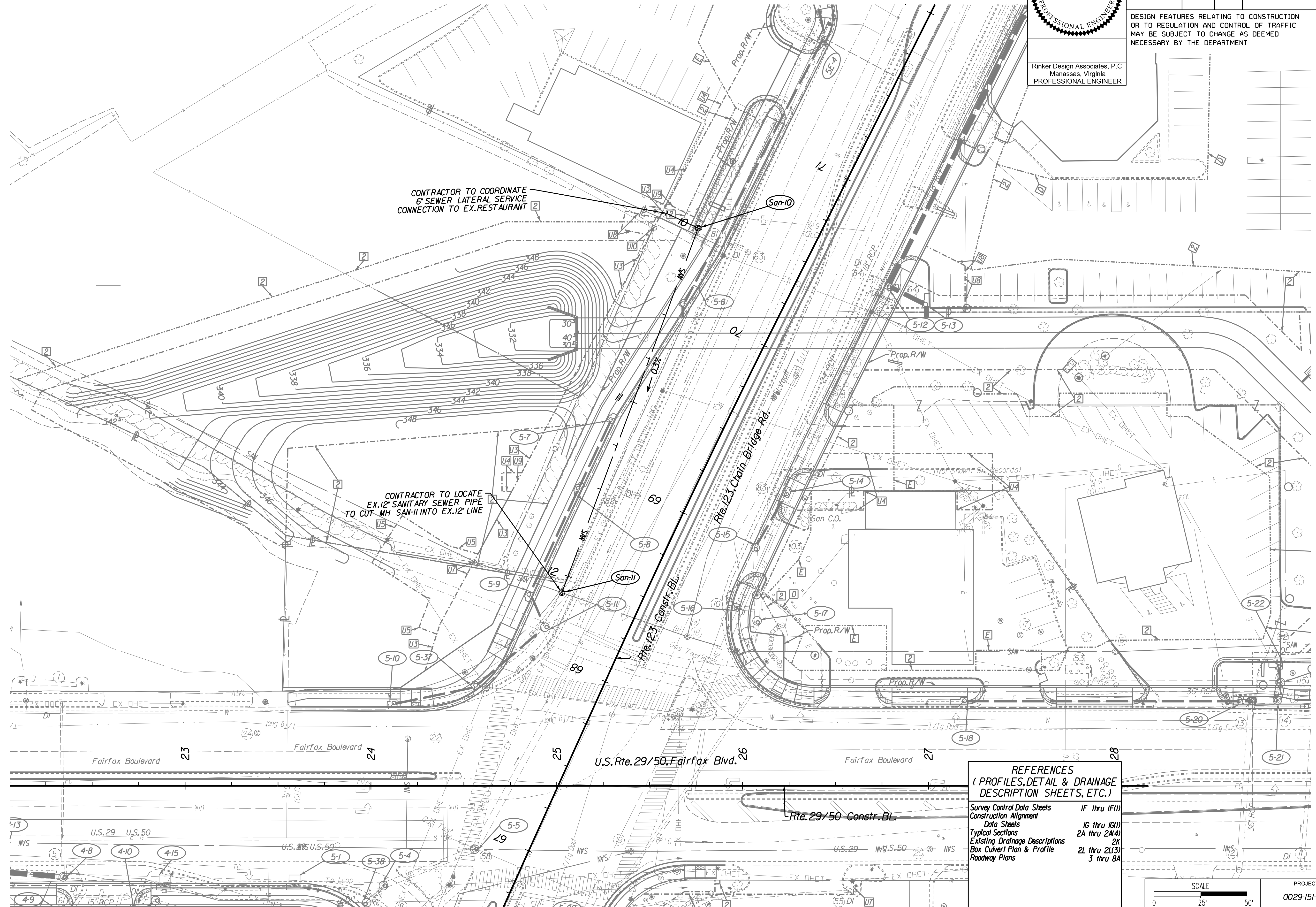


PROJECT	SHEET NO.
0029-151-105	13(2)

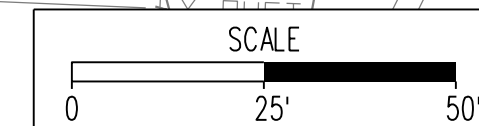
Sanitary Sewer Line Relocation Plans Cont.



DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
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NECESSARY BY THE DEPARTMENT



REFERENCES (PROFILES,DETAIL & DRAINAGE DESCRIPTION SHEETS,ETC.)	
Survey Control Data Sheets	IF thru IF10
Construction Alignment Data Sheets	1G thru 1G10
Typical Sections	2A thru 2A40
Existing Drainage Descriptions	2L thru 2L3
Box Culvert Plan & Profile	3 thru 8
Roadway Plans	



PROJECT	SHEET NO.
0029-151-105	13(3)

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) -----

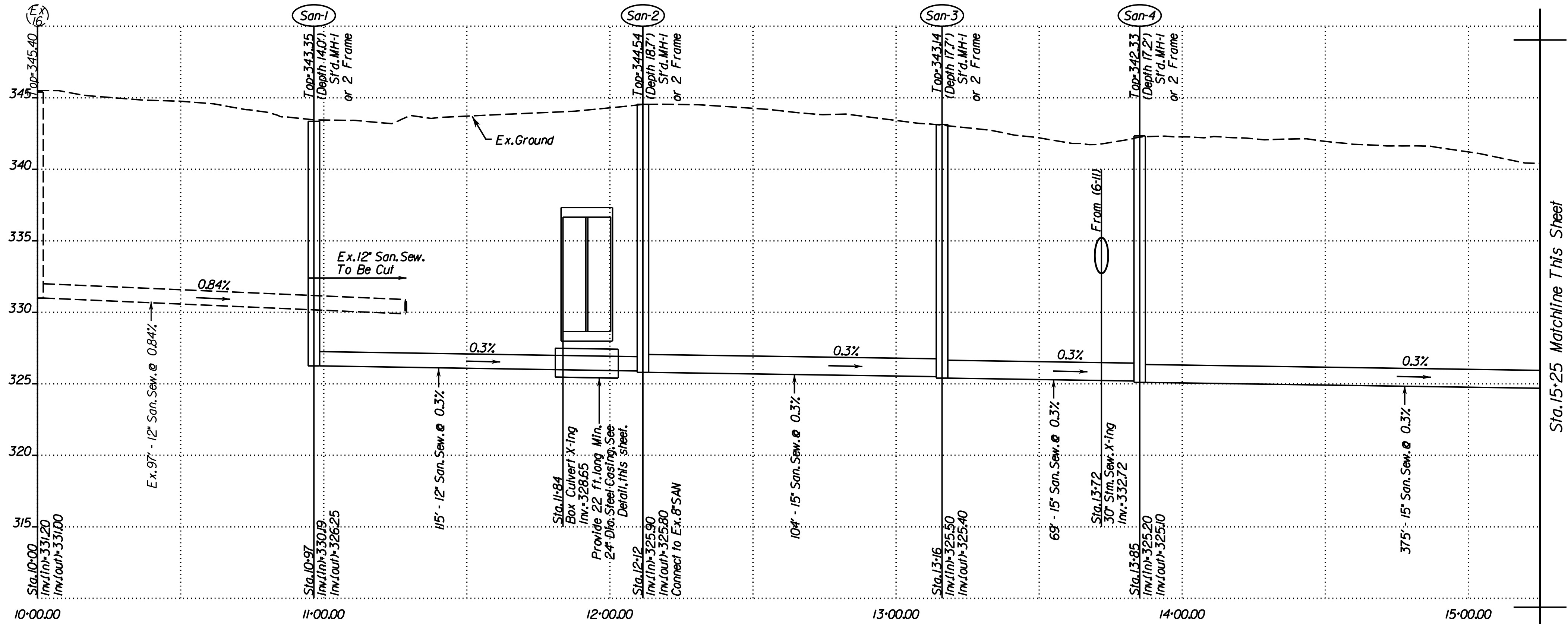
Sanitary Sewer Profile

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

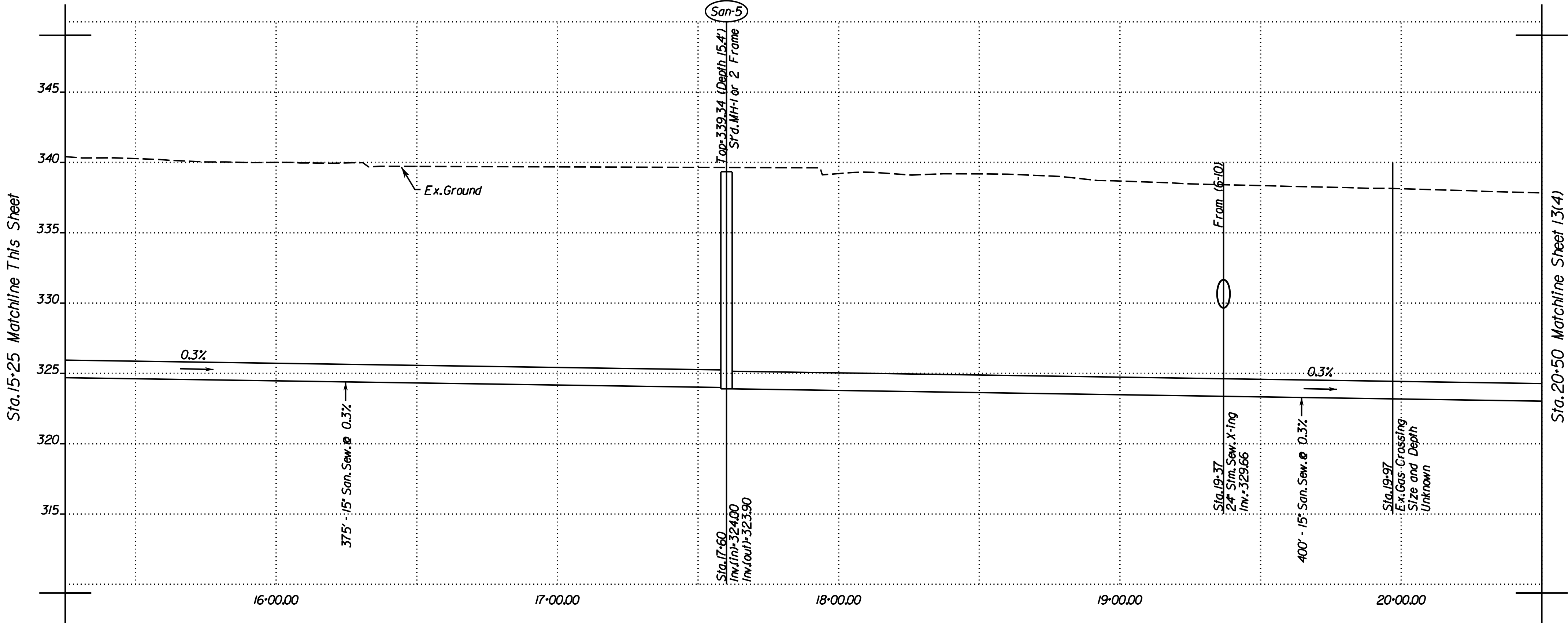
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		0029-151-105 P101, P102, R201, C501	13(4)

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

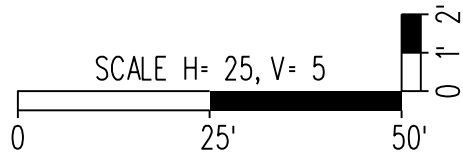


Sta. 15+25 Matchline This Sheet



Sta. 15+25 Matchline This Sheet

Sta. 20+50 Matchline Sheet 13(4)



PROJECT	SHEET NO.
0029-151-105	13(4)

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)

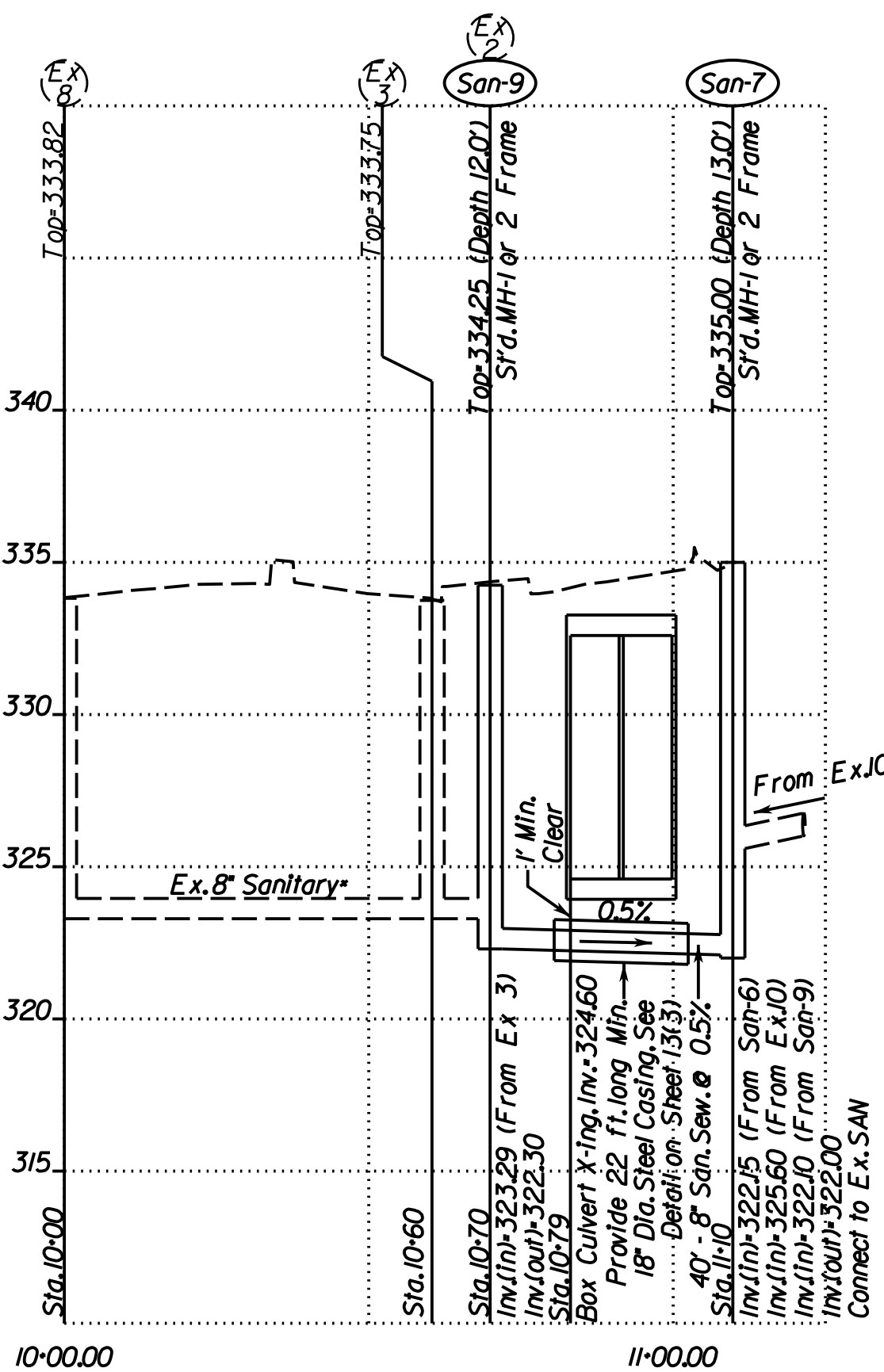
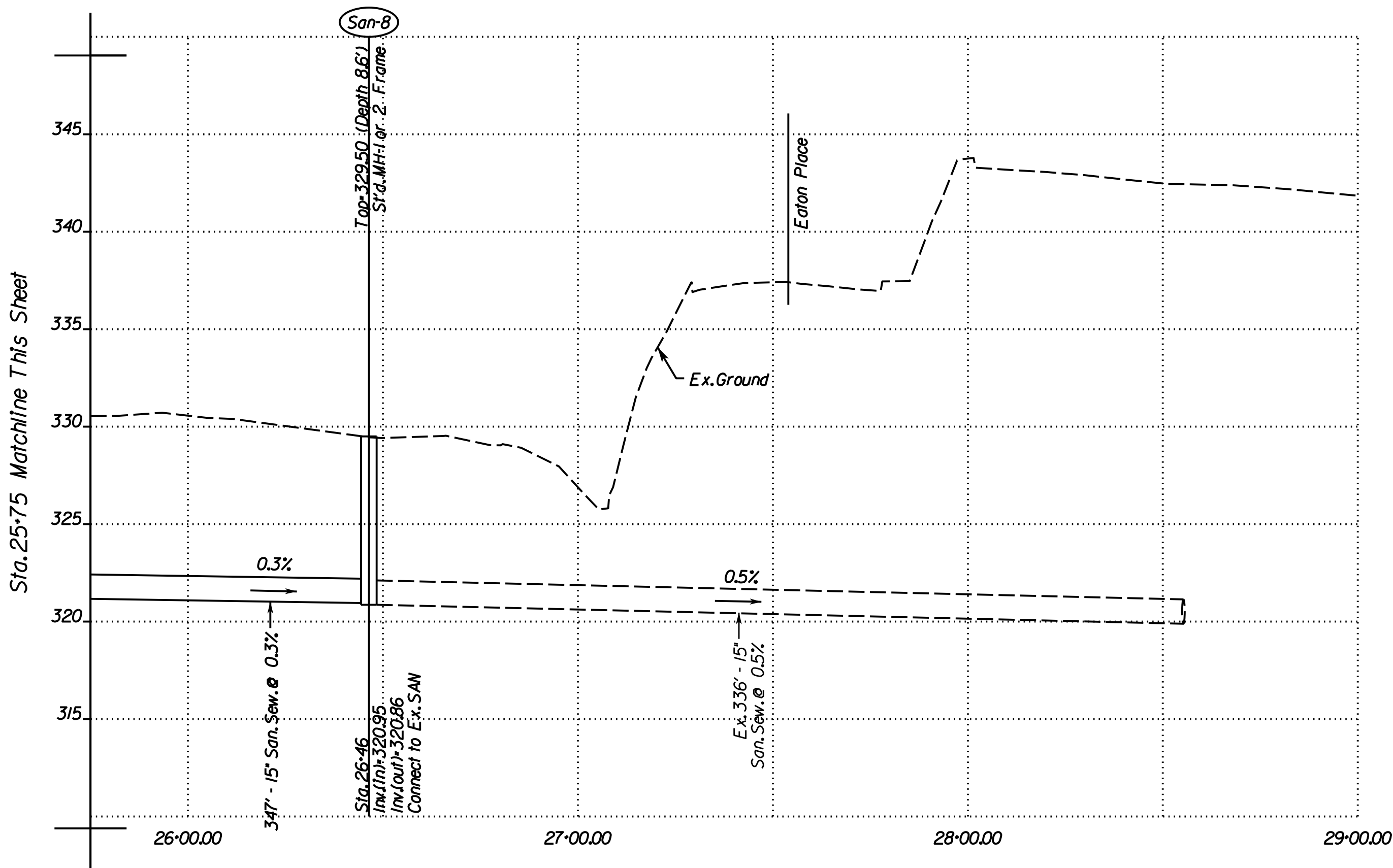
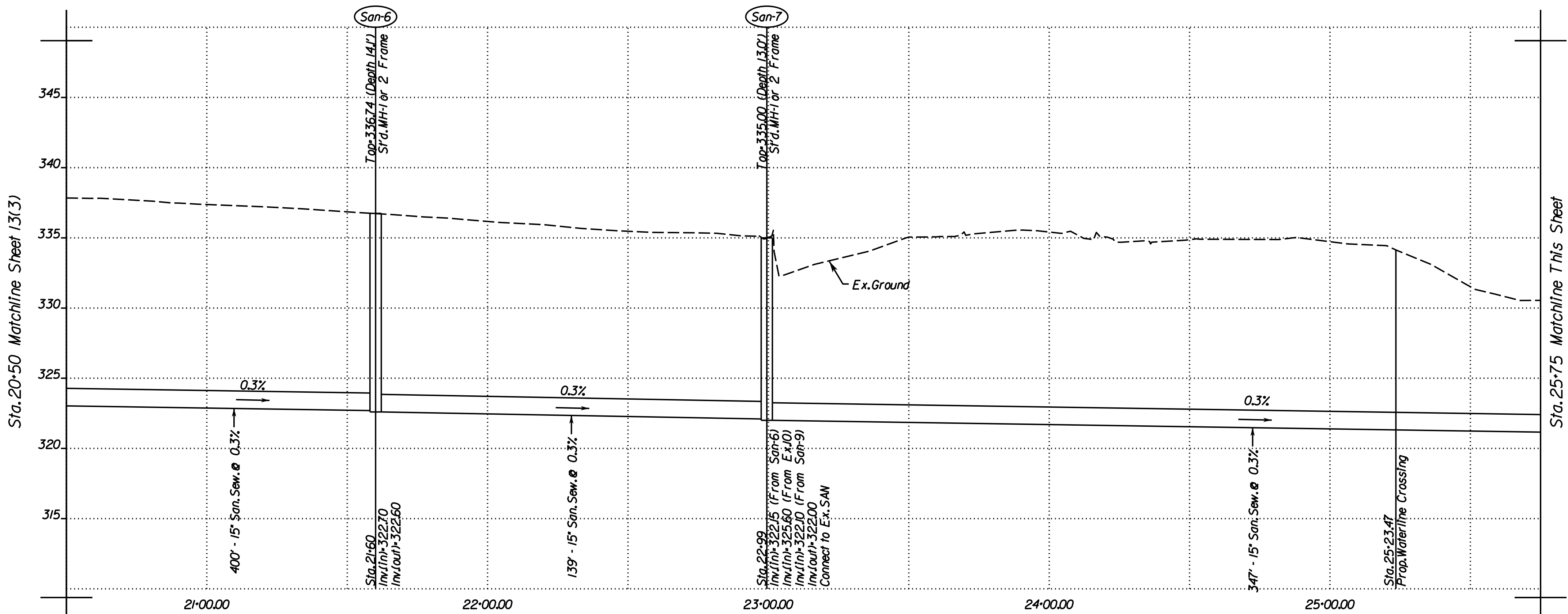
Sanitary Sewer Profile Cont.



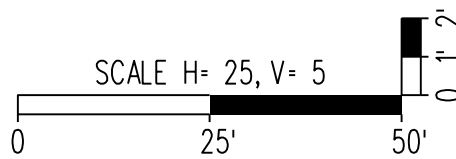
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		0029-151-105 P101, P102, R201, C501	13(5)

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



* Ex. Sanitary Manholes 3 & 8
were inaccessible at the time
of the field run topographic
survey. Inverts are unknown.



PROJECT
0029-151-105
SHEET NO.
13(5)

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)* -----

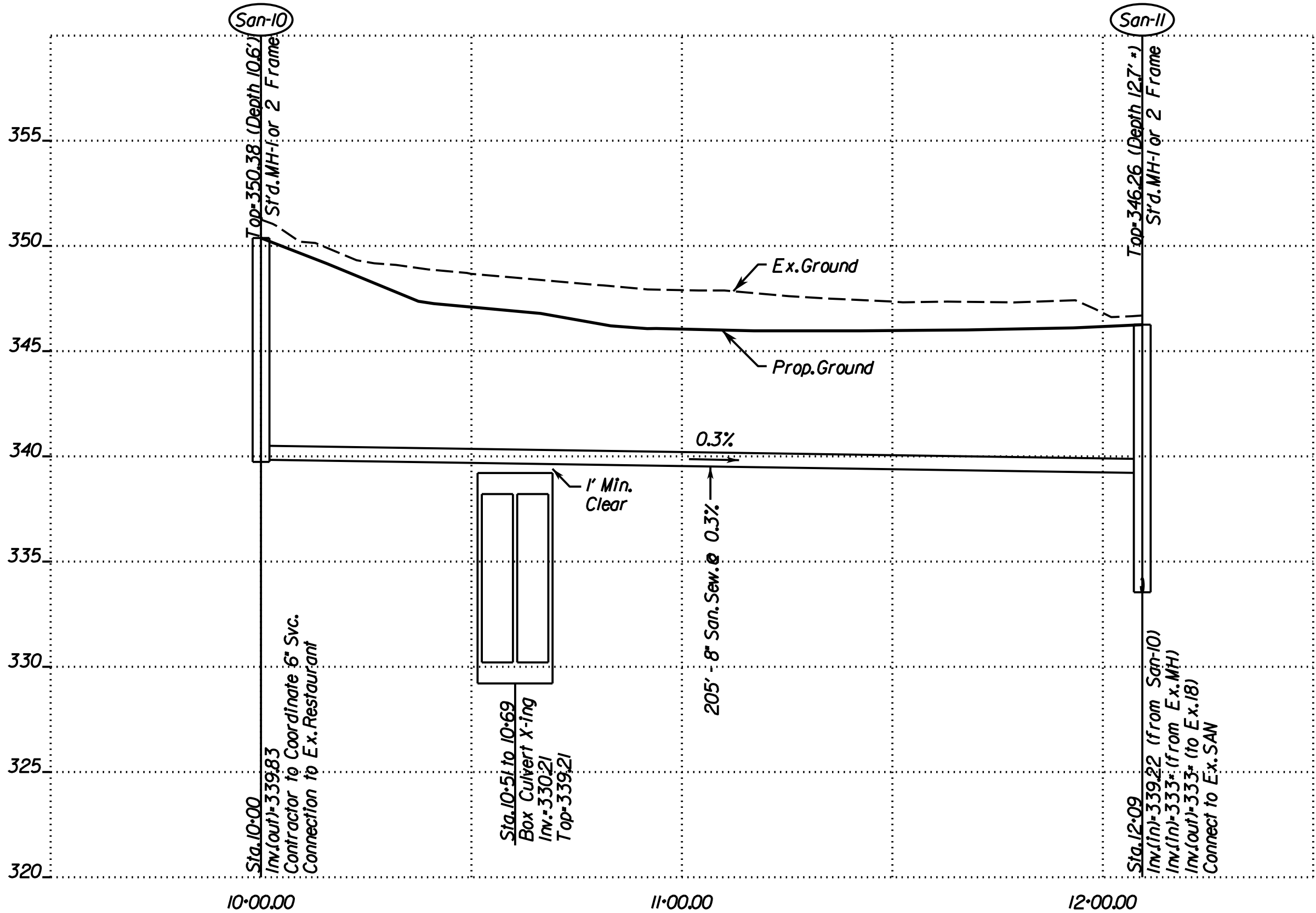
Sanitary Sewer Profile Cont.

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

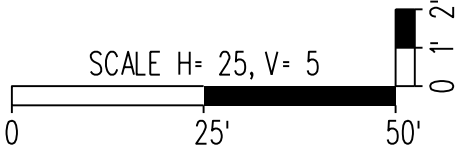
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 PI01, PI02, R201, C501	13(6)

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



* Ex. Sanitary Manhole up-line from
Ex. 18 was Inaccessible at the time
of the field run topographic survey.
Inverts are approximate based on an
assumed 0.5% fall to Ex. 18.



PROJECT	SHEET NO.
0029-151-105	13(6)