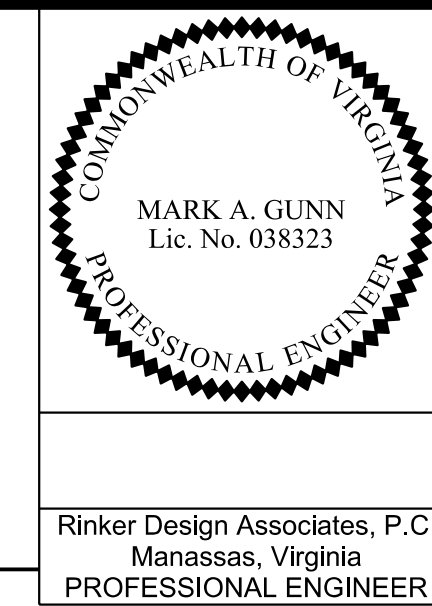


PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889  
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)  
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373.  
SUBSURFACE UTILITY PROVIDED BY AccuMark (2011)

# Demolition Summary

## DEMOLITION OF BUILDING / CLEARING OF PARCEL / UNDERGROUND STORAGE TANK REMOVAL SUMMARY



REVISED 04/22/2014 06/19/2014	STATE VA.	ROUTE -	STATE PROJECT 0029-151-105 P101, P102, R201, C501	SHEET NO. 2C
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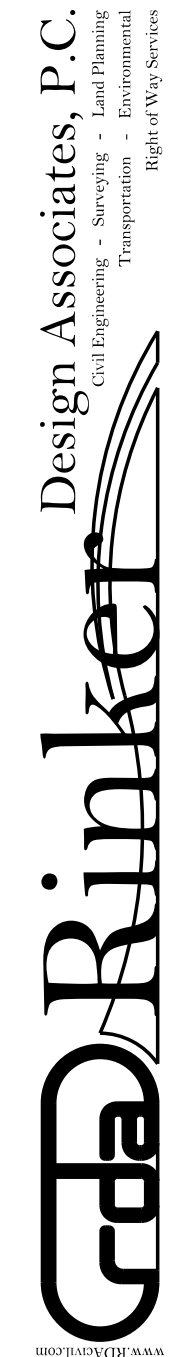
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

PROJECT NUMBER 0029-151-105, C-501

SHEET NUMBER	PARCEL NUMBER	DEMOLITION NUMBER	LANDOWNER	STATION Rt. OR Lt.	DESCRIPTION	INCLUDED IN CONTRACT						NOT IN CONTRACT ITEMS TO BE REMOVED BY OTHERS	
						DEMOLITION OF LIGHTS	DEMOLITION OF BUILDINGS *	CLEARING OF PARCEL	DEMOLITION OF SIGN	MISC. ITEMS	UNDERGROUND STORAGE TANK REMOVAL		
						LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	EACH	TYPE A EACH		TYPE B EACH
4	R/W	D700	City of Fairfax, Right of Way	16-91, 40.9' RT (Rte. 29/50)	Commercial Sign	-	-	-	1	-	-	-	-
4	R/W	D900	City of Fairfax, Right of Way	16-90 to 17-55, 48-50' RT (Rte. 29/50)	Conc. Parking Stops	-	-	-	-	6	-	-	-
4	15	D901	Reza Farnood Ahmad and Anisa Ahmad	17-50, 52' RT (Rte. 29/50)	Conc. Parking Stop	-	-	-	-	1	-	-	-
4	16	D902	Robert P. Miller, Larry C. Miller, and Ellen Miller	19-05 to 19-11, 63' RT (Rte. 29/50)	Handrails for Stairs	-	-	-	-	2	-	-	-
4	16	D903	Robert P. Miller, Larry C. Miller, and Ellen Miller	20-34, 54' RT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
4	17	D701	FXJL, L.L.C.	21-47, 70.5' RT (Rte. 29/50)	Commercial Sign	-	-	-	1	-	-	-	-
4	18	D904	Fairfax, L.L.C.	22-16, 83.2' RT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
4	18	D905	Fairfax, L.L.C.	22-33, 67.6' RT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
4	18	D906	Fairfax, L.L.C.	22-75, 75' RT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
4	18	D907	Fairfax, L.L.C.	22-96, 76.7' RT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
4 & 5	03	D908	ARG. II, L.L.C.	68-16 to 70-29, 81 to 133' LT (Rte. 123)	475' Wood Board Fence (6' Ht.) & (5) Brick Piers	-	-	-	-	1	-	-	-
5	18	D702	Fairfax, L.L.C.	23-84, 84.5' RT (Rte. 29/50)	Commercial Sign	-	-	-	1	-	-	-	-
5	03	D909	ARG. II, L.L.C.	69-34, 133' LT (Rte. 123)	126' Chain Link Fence (6' Ht.)	-	-	-	-	1	-	-	-
5	04	D703	Dimitrios Patrnanakos and Vasilios Patrnanakos	70-56, 52' LT (Rte. 123)	Commercial Sign	-	-	-	1	-	-	-	-
5	07	D709	Bank of America, N.A.	70-23, 64' RT (Rte. 123)	Commercial Sign	-	-	-	1	-	-	-	-
5	07	D952	Bank of America, N.A.	69-89, 56' RT (Rte. 123)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5	08	D953	Burke Petroleum Realty, L.L.C.	68-77, 55' RT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5	08	D954	Burke Petroleum Realty, L.L.C.	26-39, 70' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	06	D910	McKay Family Investment Company, L.L.C.	70-67, 88' RT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5	07	D911	Bank of America, N.A.	70-29, 114' RT (Rte. 123)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5	07	D912	Bank of America, N.A.	70-64, 152' RT (Rte. 123)	ATM	-	-	-	-	-	-	-	1
5	07	D913	Bank of America, N.A.	70-60, 159' RT (Rte. 123)	Service Pole	-	-	-	-	1	-	-	-
5	07	D914	Bank of America, N.A.	70-77, 166' RT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5	07	D915	Bank of America, N.A.	28-94, 16' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5	07	D916	Bank of America, N.A.	28-94, 10' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5	07	D917	Bank of America, N.A.	28-80, 54' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5	07	D704	Bank of America, N.A.	28-80, 63' LT (Rte. 29/50)	Commercial Sign & (2) Metal Barrier Posts	-	-	-	1	2	-	-	-
5	07	D918	Bank of America, N.A.	29-06, 63' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5	09	D919	McKay Chevrolet, Inc.	29-27, 242' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D920	McKay Chevrolet, Inc.	29-27, 216' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D921	McKay Chevrolet, Inc.	29-26, 188' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D922	McKay Chevrolet, Inc.	29-26, 162' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D923	McKay Chevrolet, Inc.	29-26, 135' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D924	McKay Chevrolet, Inc.	29-26, 108' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D925	McKay Chevrolet, Inc.	30-00, 162' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D705	McKay Chevrolet, Inc.	29-87, 68' LT (Rte. 29/50)	Commercial Sign	-	-	-	1	-	-	-	-
5	09	D926	McKay Chevrolet, Inc.	29-86, 54' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D927	McKay Chevrolet, Inc.	30-12, 54' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D928	McKay Chevrolet, Inc.	30-38, 53' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5	09	D929	McKay Chevrolet, Inc.	30-45, 116' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
5C	18	D957	Fairfax, L.L.C.	65-47, 56' LT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5C	19	D958	Unit Owners Assoc. of Warwick Park Professional Center, A Condominium	63-31, 41' LT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5C	19	D959	Unit Owners Assoc. of Warwick Park Professional Center, A Condominium	62-94, 44' LT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5E	06	D955	McKay Family Investment Company, L.L.C.	71-47, 57' RT (Rte. 123)	Small Parking Lot Sign	-	-	-	-	1	-	-	-
5E	04	D956	Dimitrios Patrnanakos and Vasilios Patrnanakos	70-81, 59' LT (Rte. 123)	Parking Lot Light	1	-	-	-	-	-	-	-
5E	06	D960	McKay Family Investment Company, L.L.C.	71-73, 44' RT (Rte. 123)	Light Pole Base (Power Conn.)	-	-	-	-	1	-	-	-
5E	06	D708	McKay Family Investment Company, L.L.C.	71-08, 55' RT (Rte. 123)	Commercial Sign	-	-	-	1	-	-	-	-
5E	06	D01	McKay Family Investment Company, L.L.C.	71-55 to 72-77, 44' to 135' RT (Rte. 123)	Commercial Building	-	1	1	-	-	-	-	-
5G	R/W	D711	City of Fairfax, Right of Way	76-33, 1' LT (Rte. 123)	City Welcome Sign	-	-	-	1	-	-	-	-
6	09	D930	McKay Chevrolet, Inc.	30-64, 53' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	09	D931	McKay Chevrolet, Inc.	30-84, 114' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	09	D932	McKay Chevrolet, Inc.	30-90, 53' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	09	D933	McKay Chevrolet, Inc.	31-16, 54' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	10	D02		31-47 to 32-23, 81' to 116' LT (Rte. 29/50)	Commercial Building	-	1	1	-	-	-	-	-
6	10	D934		32-14, 116' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	10	D935		32-47, 43' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	10	D936		32-77, 42' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-
6	10	D937	Robert J. Ruffini and Susan E. Ruffini, Successor Trustees of the Susan E. Ruffini Revocable Trust Dated October 10, 1991 and Walter W. Erwin	33-10, 41' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-

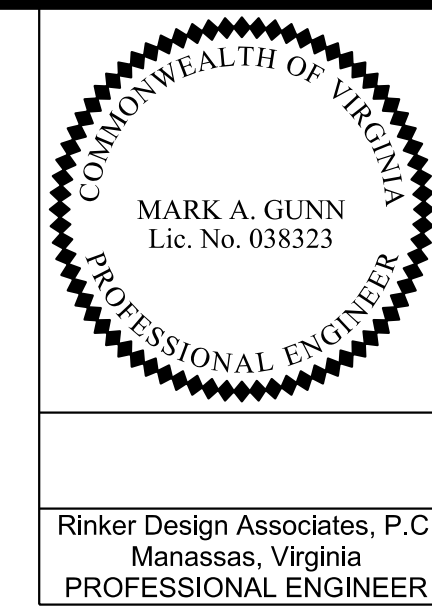
\* Contractor shall assume all buildings require asbestos removal. Contractor shall be solely responsible for all additional costs for inspection and removal of asbestos per City of Fairfax and Fairfax County requirements. See Contract Special Provisions for additional details.



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)

# Demolition Summary Cont.

## DEMOLITION OF BUILDING / CLEARING OF PARCEL / UNDERGROUND STORAGE TANK REMOVAL SUMMARY



REVISED 04/22/2014	STATE VA.	ROUTE -	STATE PROJECT 0029-151-105 P101, P102, R201, C501	SHEET NO. 2C(1)
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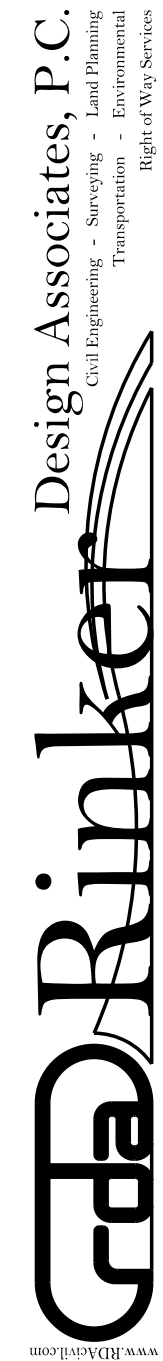
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Rinker Design Associates, P.C.  
 Manassas, Virginia  
 PROFESSIONAL ENGINEER

PROJECT NUMBER 0029-151-105, C-501

SHEET NUMBER	PARCEL NUMBER	DEMOLITION NUMBER	LANDOWNER	STATION Rt. OR Lt.	DESCRIPTION	INCLUDED IN CONTRACT							NOT IN CONTRACT ITEMS TO BE REMOVED BY OTHERS	
						DEMOLITION OF LIGHTS	DEMOLITION OF BUILDINGS *	CLEARING OF PARCEL	DEMOLITION OF SIGN	MISC. ITEMS	UNDERGROUND STORAGE TANK REMOVAL			
						LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	EACH	TYPE A	TYPE B		
6	10	D938	Robert J. Ruffini and Susan E. Ruffini,	33-39,40' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
6	10	D939	Successor Trustees of the Susan E. Ruffini Revocable	33-97,120' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
6	10	D961	Trust Dated October 10, 1991 and Walter W. Erwin	34-24,157' LT (Rte. 29/50)	10' Fence	-	-	-	-	1	-	-	-	-
6	11	D706	Fairfax Regency, LLC.	33-50,45' LT (Rte. 29/50)	Commercial Sign	-	-	-	1	-	-	-	-	-
6	11	D03	Fairfax Regency, LLC.	33-76 to 35-78,74' to 153' LT (Rte. 29/50)	Commercial Building	-	1	1	-	-	-	-	-	-
6	11	D940	Fairfax Regency, LLC.	34-86,123' LT (Rte. 29/50)	Propane/Gas Tank	-	-	-	-	1	-	-	-	-
6	11	D941	Fairfax Regency, LLC.	36-62,46' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-	-
7	11	D942	Fairfax Regency, LLC.	37-71,101' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
7	11	D943	Fairfax Regency, LLC.	38-71,101' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
7	11	D944	Fairfax Regency, LLC.	39-09,39' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-	-
7	11	D945	Fairfax Regency, LLC.	39-71,101' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
7	11	D04	Fairfax Regency, LLC.	40-38,93' LT (Rte. 29/50)	Small Commercial Building	-	1	1	-	-	-	-	-	-
7	11	D946	Fairfax Regency, LLC.	40-47,89' LT (Rte. 29/50)	Service Pole	-	-	-	-	1	-	-	-	-
7	11	D947	Fairfax Regency, LLC.	39-90,40' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-	-
7	11	D948	Fairfax Regency, LLC.	40-69,88' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
7	11	D707	Fairfax Regency, LLC.	40-82,46' LT (Rte. 29/50)	Commercial Sign and Timber Landscaped Box	-	-	-	-	1	-	-	-	-
7	11	D949	Fairfax Regency, LLC.	41-54,53' LT (Rte. 29/50)	Small Parking Lot Sign	-	-	-	-	1	-	-	-	-
7	11	D950	Fairfax Regency, LLC.	41-90,80' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-
7	11	D951	Fairfax Regency, LLC.	42-45,79' LT (Rte. 29/50)	Parking Lot Light	1	-	-	-	-	-	-	-	-

\* Contractor shall assume all buildings require asbestos removal. Contractor shall be solely responsible for all additional costs for inspection and removal of asbestos per City of Fairfax and Fairfax County requirements. See Contract Special Provisions for additional details.



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DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373  
SUBSURFACE UTILITY PROVIDED BY AccuTrack (2011)

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

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

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	2C(3)

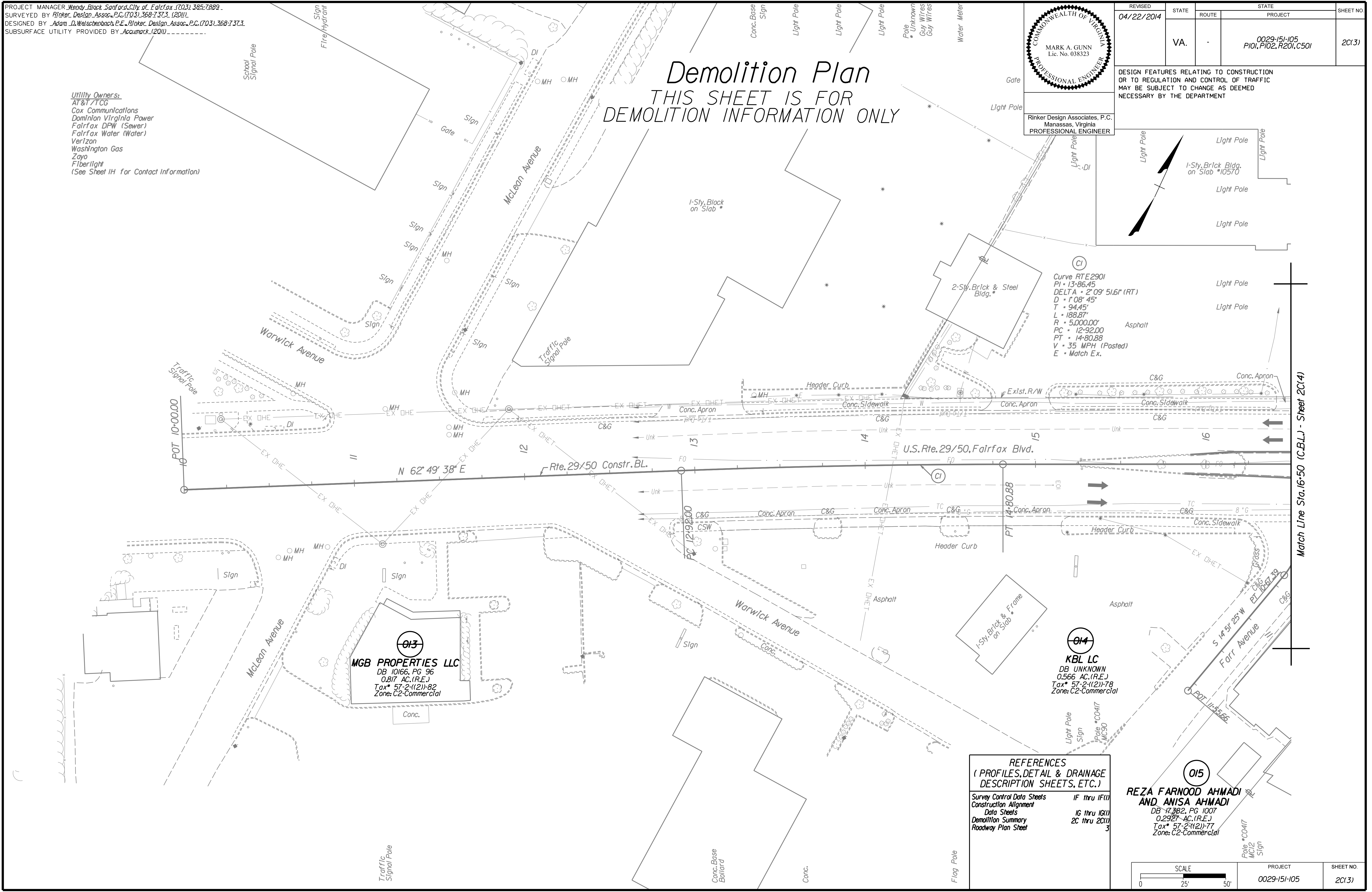
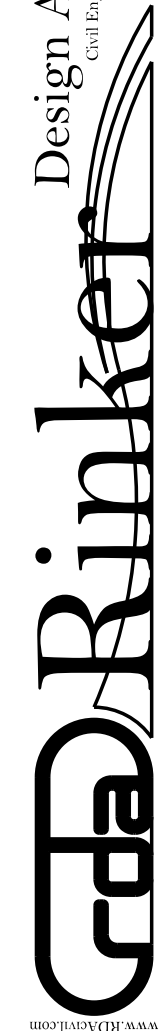
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# Demolition Plan

THIS SHEET IS FOR  
DEMOLITION INFORMATION ONLY

Utility Owners:  
AT&T/TCG  
Cox Communications  
Dominion Virginia Power  
Fairfax DPW (Sewer)  
Fairfax Water (Water)  
Verizon  
Washington Gas  
Zayo  
Fiberlight  
(See Sheet 1H For Contact Information)

Office Locations  
Rinker Design Associates, P.C.  
Civil Engineers  
Professional Engineers  
Professional Surveyors  
Professional Land Surveyors  
Professional Traffic Engineers  
Professional Transportation Engineers  
Professional Environmental Engineers  
Professional Right-of-Way Services



Curve RTE2901  
PI = 13+86.45  
DELTA = 2° 09' 51.6" (RT)  
D = 1' 08' 45"  
T = 94.45'  
L = 188.87'  
R = 5,000.00'  
PC = 12+92.00  
PT = 14+80.88  
V = 35 MPH (Posted)  
E = Match Ex.

**013**  
**MGB PROPERTIES LLC**  
DB 10166, PG 96  
0.817 AC. (R.E.)  
Tax\* 57-2-(12)-82  
Zone: C2-Commercial

**014**  
**KBL LC**  
DB UNKNOWN  
0.566 AC. (R.E.)  
Tax\* 57-2-(12)-78  
Zone: C2-Commercial

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment	
Data Sheets	16 thru 16(1)
Demolition Summary	2C thru 2C(1)
Roadway Plan Sheet	3

**015**  
**REZA FARNOOD AHMADI AND ANISA AHMADI**  
DB 17382, PG 1007  
0.2927 AC. (R.E.)  
Tax\* 57-2-(12)-77  
Zone: C2-Commercial

SCALE	PROJECT	SHEET NO.
0 25' 50'	0029-151-105	2C(3)

Match Line Sta. 16+50 (C.B.L.) - Street 2C(4)



PROJECT MANAGER Wendy Black 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**  
**PROFESSIONAL ENGINEER**  
MARK A. GUNN  
Lic. No. 038323

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Manassas, Virginia  
**PROFESSIONAL ENGINEER**

# Demolition Plan Cont.

THIS SHEET IS FOR DEMOLITION INFORMATION ONLY

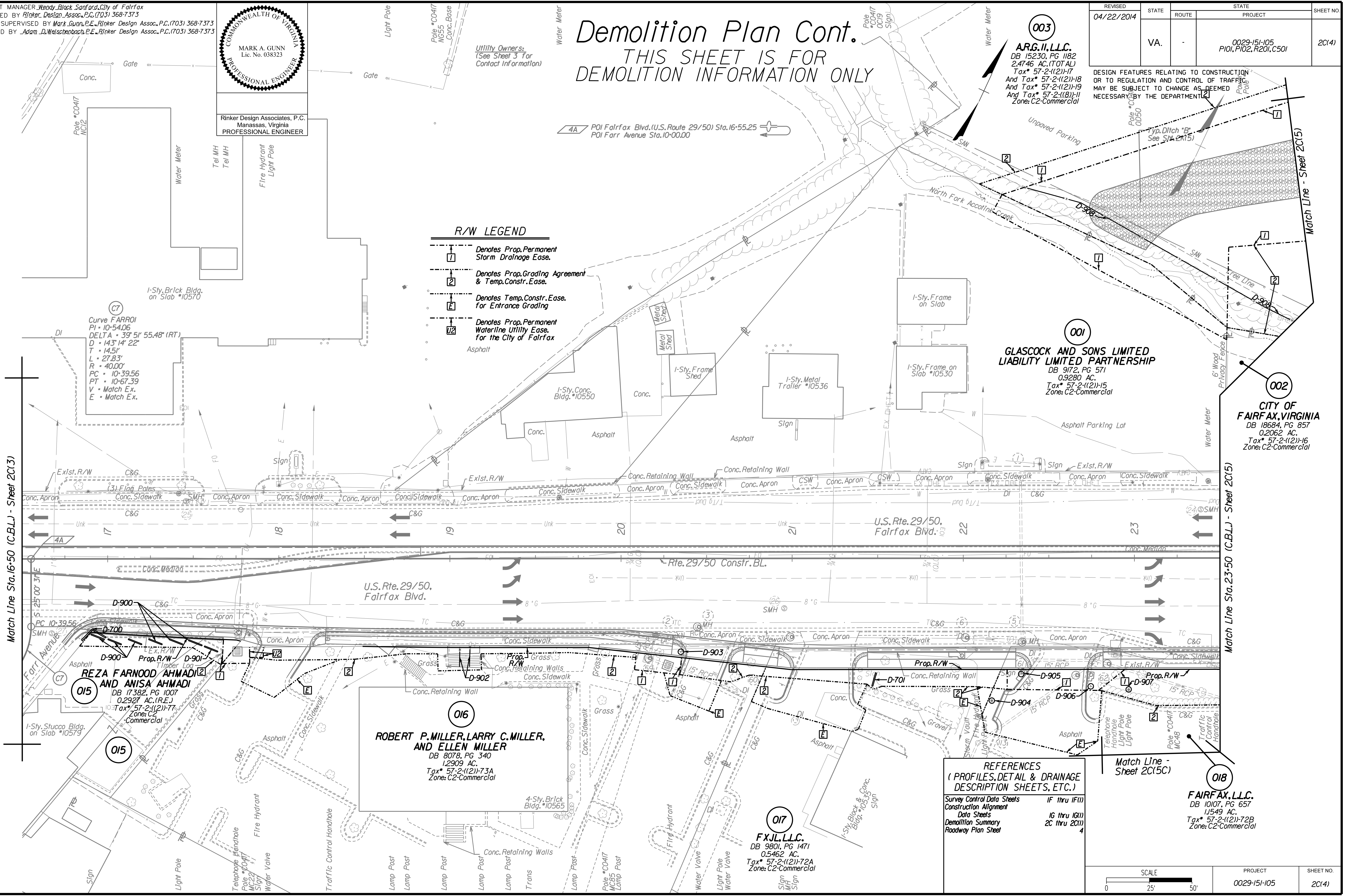
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
04/22/2014	VA.			0029-151-105 P101, P102, R201, C501	2C(14)

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

### R/W LEGEND

- Denotes Prop. Permanent Storm Drainage Easement.
- Denotes Prop. Grading Agreement & Temp. Constr. Easement.
- Denotes Temp. Constr. Easement for Entrance Grading.
- Denotes Prop. Permanent Waterline Utility Easement for the City of Fairfax.

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



Match Line Sta. 16+50 (C.B.L.) - Sheet 2C(3)

Match Line Sta. 23+50 (C.B.L.) - Sheet 2C(5)

**GLASCOCK AND SONS LIMITED LIABILITY PARTNERSHIP**  
DB 9172, PG 571  
0.9280 AC.  
Tax\* 57-2-(12)-15  
Zone: C2-Commercial

**CITY OF FAIRFAX, VIRGINIA**  
DB 18684, PG 857  
0.2062 AC.  
Tax\* 57-2-(12)-16  
Zone: C2-Commercial

**Curve FARROI**  
PI - 10+54.06  
DELTA - 39° 51' 55.48" (RT)  
D - 143' 14" 22"  
T - 14.51'  
L - 27.83'  
R - 40.00'  
PC - 10+39.56  
PT - 10+67.39  
V - Match Ex.  
E - Match Ex.

**REZA FARNOOD AHMADI AND ANISA AHMADI**  
DB 17382, PG 1007  
0.2927 AC. (R.E.)  
Tax\* 57-2-(12)-77  
Zone: C2-Commercial

**ROBERT P. MILLER, LARRY C. MILLER, AND ELLEN MILLER**  
DB 8078, PG 340  
1.2909 AC.  
Tax\* 57-2-(12)-73A  
Zone: C2-Commercial

**FXJL, LLC.**  
DB 9801, PG 1471  
0.5462 AC.  
Tax\* 57-2-(12)-72A  
Zone: C2-Commercial

**FAIRFAX, LLC.**  
DB 10107, PG 657  
1.1549 AC.  
Tax\* 57-2-(12)-72B  
Zone: C2-Commercial

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Demolition Summary Roadway Plan Sheet	2C thru 2C(1)

SCALE	PROJECT	SHEET NO.
0 25' 50'	0029-151-105	2C(14)



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 Acumack (2011)

**ARG. II, LLC.**  
DB 15230, PG 1182  
2.4746 AC. (TOT AL)  
Tax\* 57-2-(12)-17  
And Tax\* 57-2-(12)-18  
And Tax\* 57-2-(12)-19  
And Tax\* 57-2-(18)-11  
Zone: C2-Commercial

# Demolition Plan Cont.

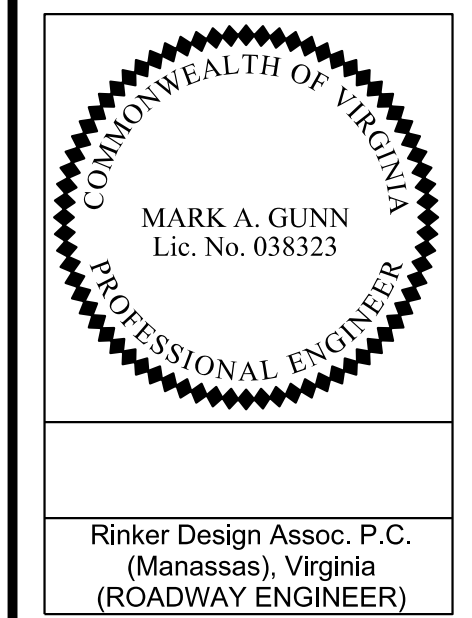
THIS SHEET IS FOR DEMOLITION INFORMATION ONLY

**MCKAY FAMILY INVESTMENT COMPANY, LLC**  
DB 18653, PG 740  
1.0442 AC.  
Tax\* 57-2-(12)-24A  
Zone: C2-Commercial

REVISED 04/22/2014 06/19/2014	STATE VA.	ROUTE	STATE VA.	PROJECT 0029-151-105 P101, P102, R201, C501	SHEET NO. 2C(15)
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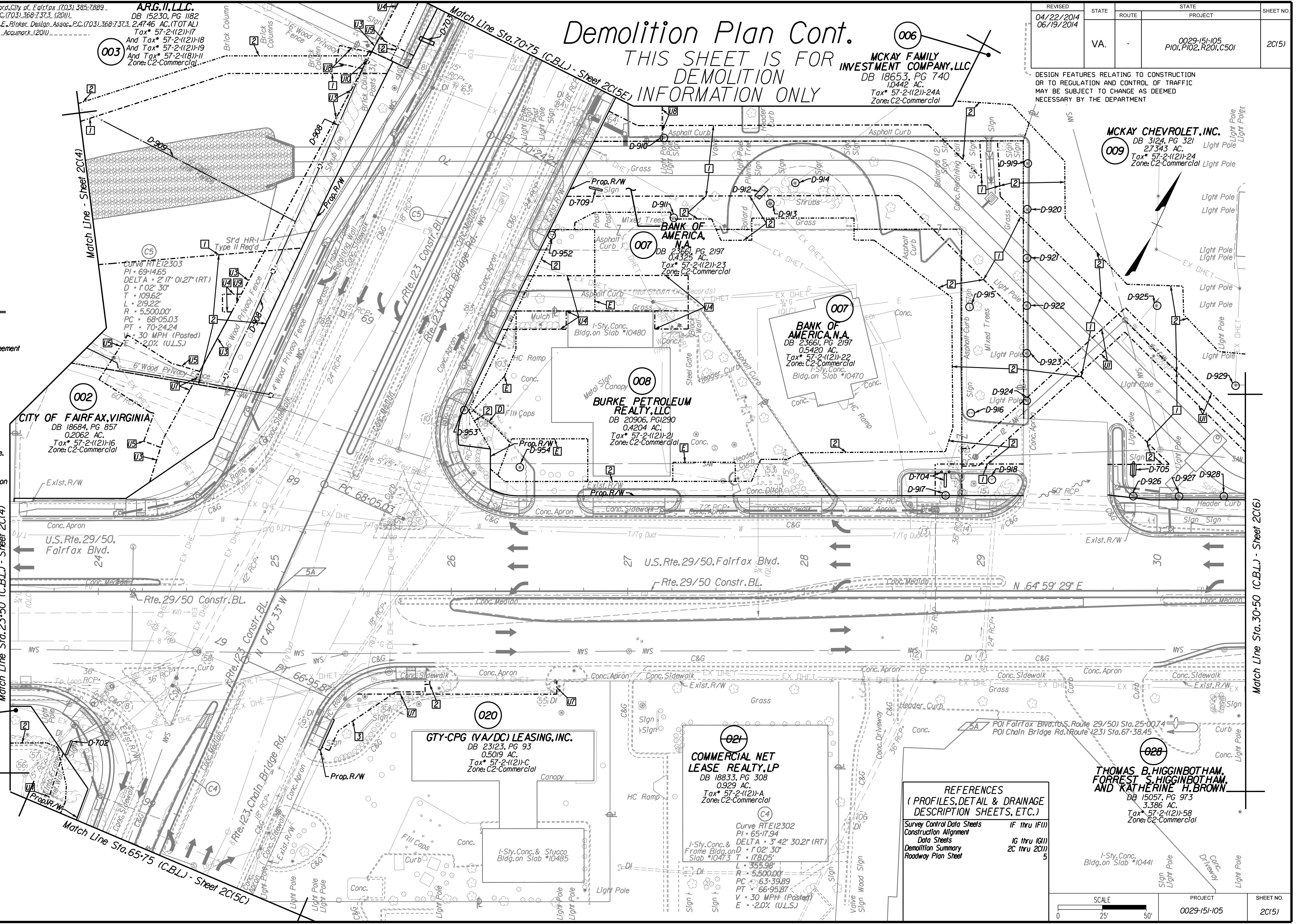
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

**MCKAY CHEVROLET, INC.**  
DB 3124, PG 321  
2.7343 AC.  
Tax\* 57-2-(12)-24  
Zone: C2-Commercial



### R/W LEGEND

- 1 Denotes Prop. Permanent Storm Drainage Ease.
- 2 Denotes Prop. Grading Agreement & Temp. Constr. Ease.
- 3 Denotes Prop. Permanent Signal Ease.
- E Denotes Temp. Constr. Ease. for Entrance Grading
- D Denotes Temp. Constr. Ease. for Demolition
- U Denotes Prop. Permanent Sanitary Sewer Utility Ease. for the City of Fairfax
- V Denotes Prop. Perm. Utility Ease. for AT&T, Cox, Dominion Virginia Power, Verizon
- W Denotes Prop. Perm. Utility Ease. for Cox, Dominion Virginia Power, Verizon
- X Denotes Prop. Permanent Utility Ease. for Dominion Virginia Power, Verizon
- Y Denotes Prop. Permanent Utility Ease. for AT&T, Cox
- Z Denotes Prop. Permanent Utility Ease. for AT&T, Cox, Verizon
- AA Denotes Prop. Permanent Utility Ease. for AT&T
- AB Denotes Prop. Permanent Utility Ease. for Dominion Virginia Power



**CITY OF FAIRFAX, VIRGINIA**  
DB 18684, PG 857  
0.2062 AC.  
Tax\* 57-2-(12)-16  
Zone: C2-Commercial

**BURKE PETROLEUM REALTY, LLC**  
DB 20906, PG 1290  
0.4204 AC.  
Tax\* 57-2-(12)-21  
Zone: C2-Commercial

**BANK OF AMERICA, N.A.**  
DB 23661, PG 2197  
0.5420 AC.  
Tax\* 57-2-(12)-22  
Zone: C2-Commercial  
Bldg. on Slab #10470

**GTY-CPG (VA/DC) LEASING, INC.**  
DB 23123, PG 93  
0.5019 AC.  
Tax\* 57-2-(12)-C  
Zone: C2-Commercial

**COMMERCIAL NET LEASE REALTY, LP**  
DB 18833, PG 308  
0.929 AC.  
Tax\* 57-2-(12)-A  
Zone: C2-Commercial

**FAIRFAX, LLC.**  
DB 10107, PG 657  
1.1549 AC.  
Tax\* 57-2-(12)-72B  
Zone: C2-Commercial

**THOMAS B. HIGGINBOTHAM, FORREST S. HIGGINBOTHAM, AND KATHERINE H. BROWN**  
DB 15057, PG 973  
3.386 AC.  
Tax\* 57-2-(12)-58  
Zone: C2-Commercial

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)  
Survey Control Data Sheets IF thru IF(II)  
Construction Alignment Data Sheets IG thru IG(II)  
Demolition Summary 2C thru 2C(II)  
Roadway Plan Sheet 5

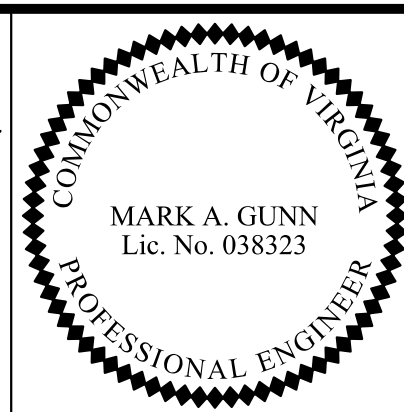
SCALE 0 25' 50'	PROJECT 0029-151-105	SHEET NO. 2C(15)
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Rinker Design Associates, P.C.  
Civil Engineering - Transportation - Environmental  
Right-of-Way Services

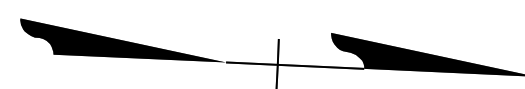


PROJECT MANAGER Wendy Block Sanford, City of Fairfax  
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373  
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373  
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

Utility Owners:  
(See Sheet 3 For Contact Information)

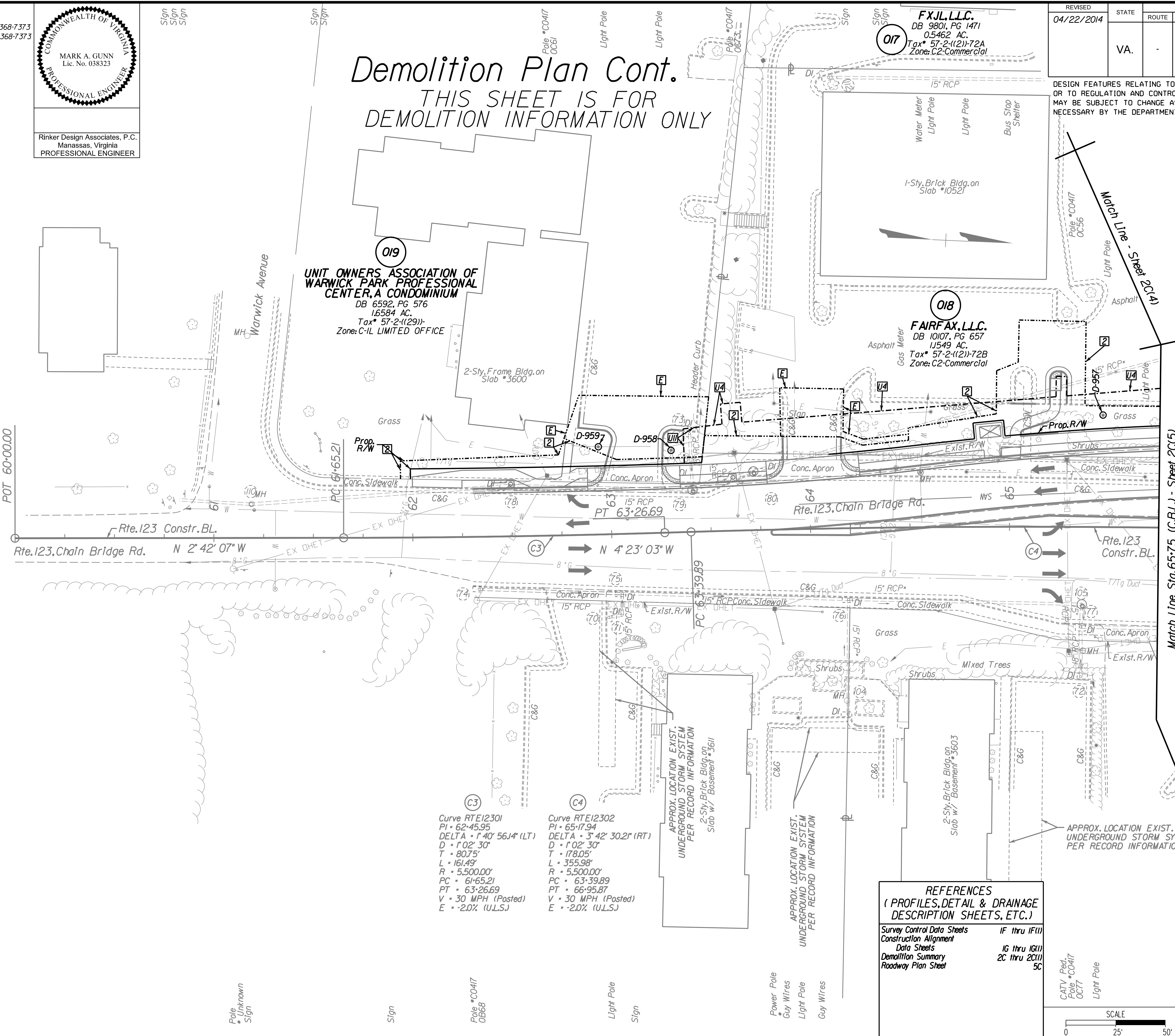


Rinker Design Associates, P.C.  
Manassas, Virginia  
PROFESSIONAL ENGINEER



# Demolition Plan Cont.

THIS SHEET IS FOR DEMOLITION INFORMATION ONLY



REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	2C15C

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

### R/W LEGEND

- Denotes Prop. Grading Agreement & Temp. Constr. Ease.
- Denotes Temp. Constr. Ease for Entrance Grading.
- Denotes Prop. Permanent Utility Ease for Cox, Dominion Virginia Power, Verizon
- Denotes Prop. Permanent Utility Ease for Verizon

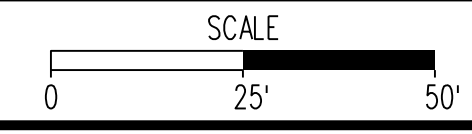
**C3**  
Curve RTE12301  
PI • 62-45.95  
DELTA • 1° 40' 56.4" (LT)  
D • 1° 02' 30"  
T • 80.75'  
L • 161.49'  
R • 5,500.00'  
PC • 61-65.21  
PT • 63-26.69  
V • 30 MPH (Posted)  
E • -2.0% (W.L.S.)

**C4**  
Curve RTE12302  
PI • 65-17.94  
DELTA • 3° 42' 30.2" (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% (W.L.S.)

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Demolition Summary Roadway Plan Sheet	2C thru 2C(1)
	5C

CATV Pole \*CO417  
Light Pole  
OC77

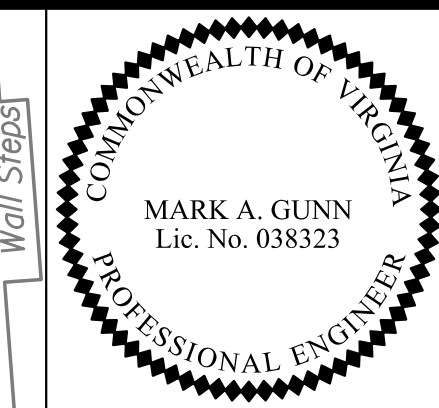


PROJECT	SHEET NO.
0029-151-105	2C15C

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



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.  
Manassas, Virginia  
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	2C(15E)

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

# Demolition Plan Cont.

4-Sty. Brick Bldg. #3554 (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.)

004  
**DIMITRIOS PATRIANAKOS AND VASILIOS PATRIANAKOS**  
 DB 8904, PG. 1517  
 0.5428 AC.  
 Tax # 57-2-(121)-20  
 Zone: C2-Commercial

1-Sty. Stone & Stucco Bldg. #3570

1-Sty. Brick Bldg. #

Utility Owners:  
(See Sheet 3 For Contact Information)

**THIS SHEET IS FOR DEMOLITION INFORMATION ONLY**

### R/W LEGEND

- Denotes Prop. Grading Agreement & Temp. Constr. Easement.
- Denotes Temp. Constr. Easement for Entrance Grading.
- Denotes Temp. Constr. Easement for Demolition.
- Denotes Prop. Permanent Utility Easement for Cox, Dominion Virginia Power, Verizon.
- Denotes Prop. Permanent Utility Easement for Dominion Virginia Power, Verizon.
- Denotes Prop. Permanent Utility Easement for AT&T, Cox, Verizon.
- Denotes Prop. Permanent Utility Easement for Dominion Virginia Power.
- Denotes Prop. Permanent Utility Easement for Verizon.

Match Line Sta. 70+75 (C.B.L.) - Sheet 2C(15)

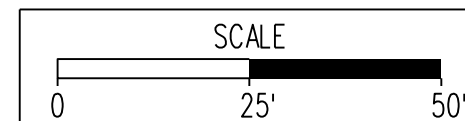
Match Line Sta. 76+00 (C.B.L.) - Sheet 2C(15G)

006  
**MCKAY FAMILY INVESTMENT COMPANY, LLC**  
 DB 18653, PG. 740  
 0.442 AC.  
 Tax # 57-2-(121)-24A  
 And Tax # 57-2-(121)-24B  
 Zone: C2-Commercial

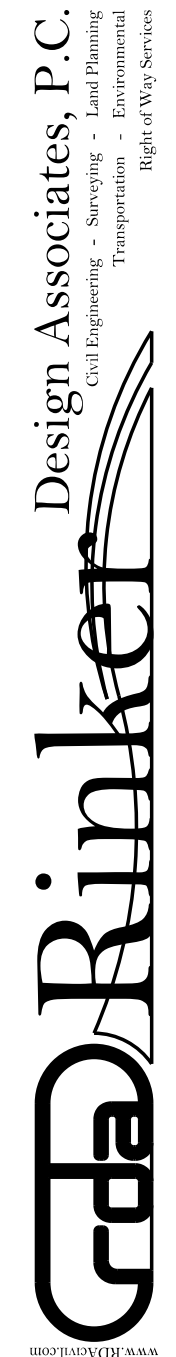
005  
**WPPI FAIRFAX RI, LLC**  
 DB 20475, PG. 494  
 2.5532 AC.  
 Tax # 57-2-(121)-25  
 Zone: C2-Commercial

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

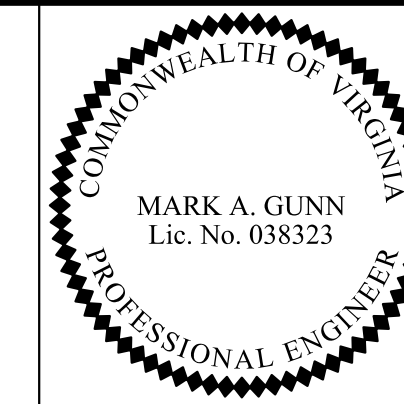
Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Demolition Summary Roadway Plan Sheet	2C thru 2C(1)
	5E



PROJECT	SHEET NO.
0029-151-105	2C(15E)



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 Accumack (2011)



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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2C15G1

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

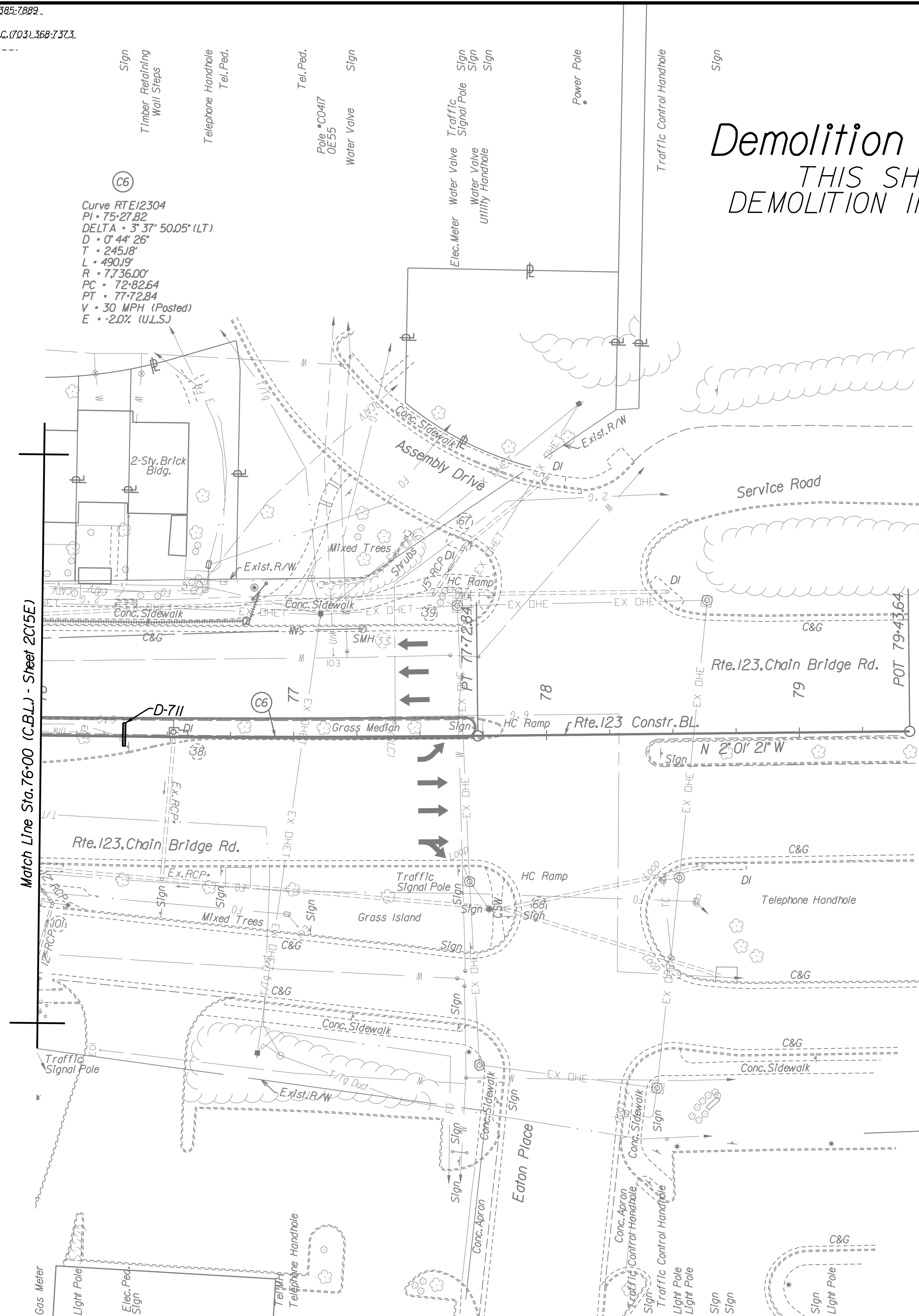
# Demolition Plan Cont.

THIS SHEET IS FOR  
DEMOLITION INFORMATION ONLY

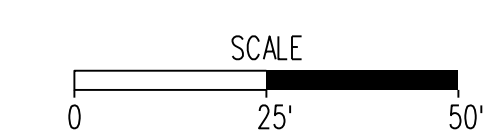


**C6**

Curve RTE12304  
 PI = 75+27.82  
 DELTA = 3° 37' 50.05" (LT)  
 D = 0° 44' 26"  
 T = 245.18'  
 L = 490.19'  
 R = 7736.00'  
 PC = 72+82.64  
 PT = 77+72.84  
 V = 30 MPH (Posted)  
 E = -2.0% (U.L.S.)



Utility Owners:  
(See Sheet 3 For  
Contact Information)



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

Survey Control Data Sheets	IF thru IF(II)
Construction Alignment Data Sheets	IG thru IG(II)
Demolition Summary	2C thru 2C(II)
Roadway Plan Sheet	5G

PROJECT	SHEET NO.
0029-151-105	2C15G1

Office Locations  
 Rinker Design Associates, P.C.  
 10000 Lee Highway, Suite 100  
 Manassas, VA 20108  
 Phone: (703) 368-7373  
 Fax: (703) 368-7373  
 Right of Way Services



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 AccuTrack (2011)

# Demolition Plan Cont.

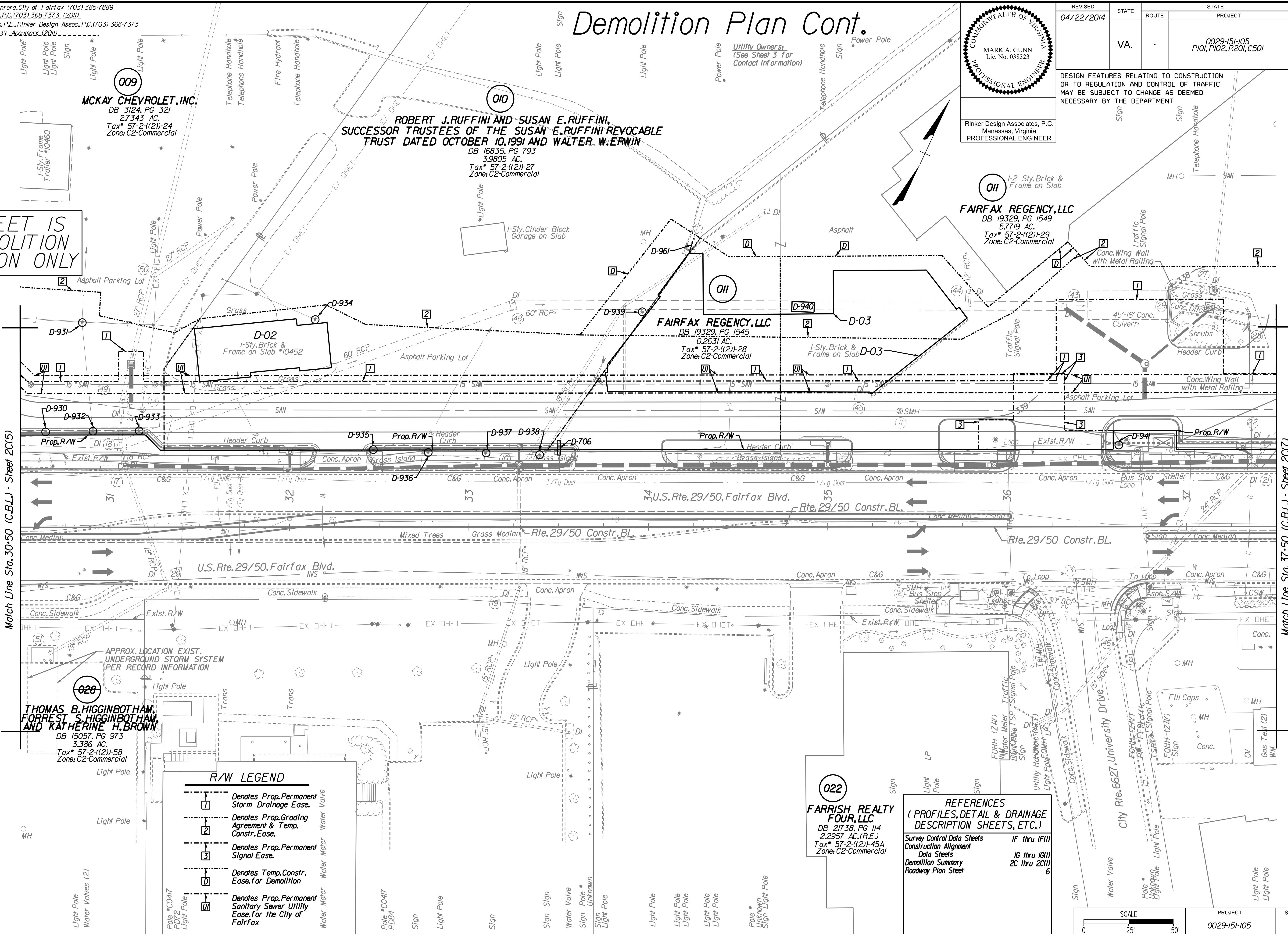
COMMONWEALTH OF VIRGINIA  
MARK A. GUNN  
Lic. No. 038323  
PROFESSIONAL ENGINEER

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	2C161

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

THIS SHEET IS FOR DEMOLITION INFORMATION ONLY



**R/W LEGEND**

[Symbol]	Denotes Prop. Permanent Storm Drainage Easement.
[Symbol]	Denotes Prop. Grading Agreement & Temp. Constr. Easement.
[Symbol]	Denotes Prop. Permanent Signal Easement.
[Symbol]	Denotes Temp. Constr. Easement for Demolition.
[Symbol]	Denotes Prop. Permanent Sanitary Sewer Utility Easement for the City of Fairfax.

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Demolition Summary Roadway Plan Sheet	2C thru 2C(1)

SCALE 0 25' 50'

PROJECT	0029-151-105
SHEET NO.	2C161

Rinker Design Associates, P.C.

Match Line Sta. 30+50 (C.B.L.) - Sheet 2C15

Match Line Sta. 37+50 (C.B.L.) - Sheet 2C17

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 AccuTrack (2011)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
04/22/2014	VA.	-	0029-151-105 P101, P102, R201, C501	2C(7)

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

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

**FAIRFAX REGENCY, LLC**  
DB 19329, PG 1549  
0.130 AC.  
Tax\* 57-2-(12)-30  
Zone: C2-Commercial

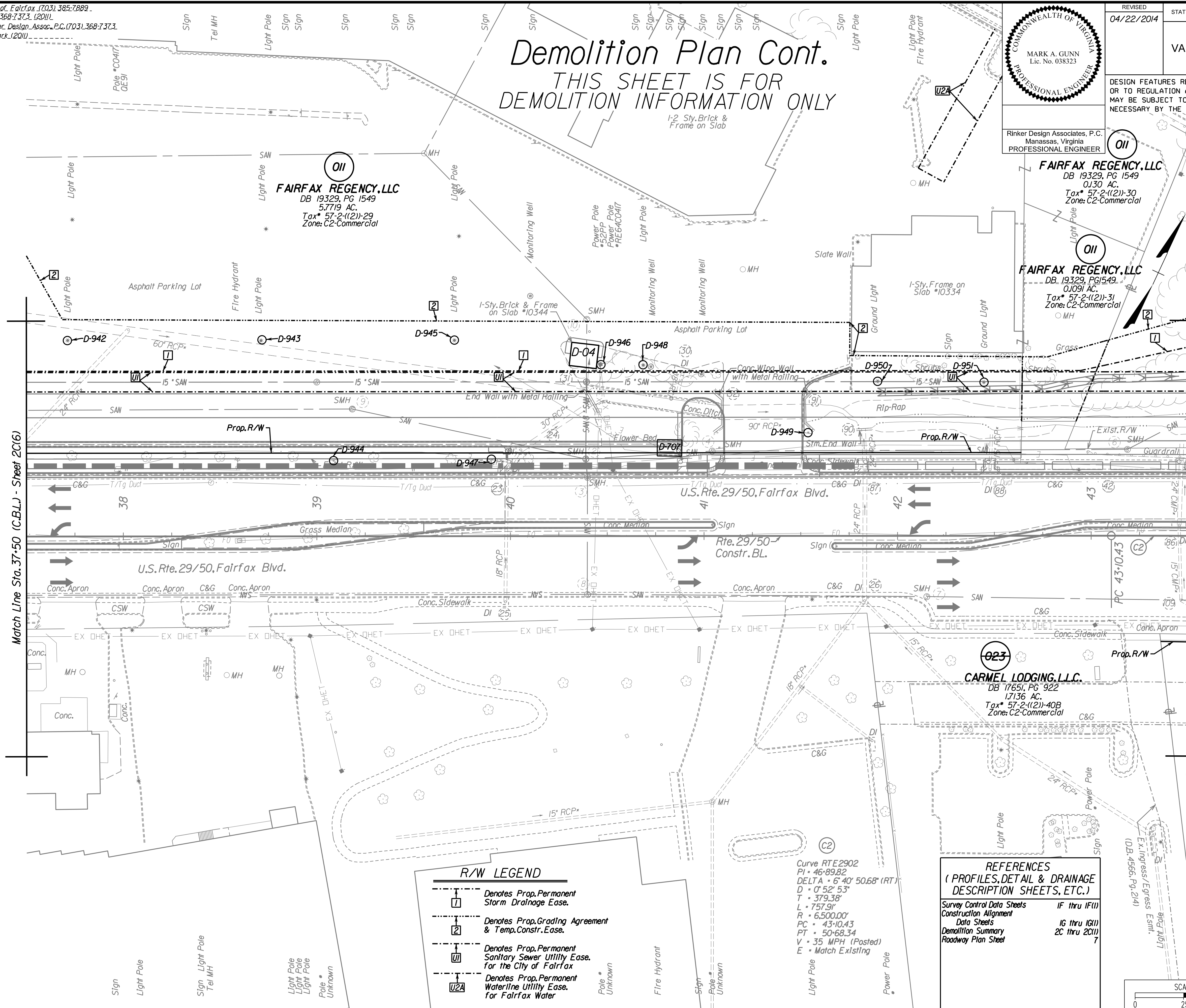
**FAIRFAX REGENCY, LLC**  
DB 19329, PG 1549  
0.1091 AC.  
Tax\* 57-2-(12)-31  
Zone: C2-Commercial

**FAIRFAX REGENCY, LLC**  
DB 19329, PG 1549  
0.1091 AC.  
Tax\* 57-2-(12)-31  
Zone: C2-Commercial

**CARMEL LODGING, L.L.C.**  
DB 17651, PG 922  
1.7136 AC.  
Tax\* 57-2-(12)-40B  
Zone: C2-Commercial

# Demolition Plan Cont.

THIS SHEET IS FOR DEMOLITION INFORMATION ONLY



Match Line Sta. 37+50 (C.B.L.) - Sheet 2C(6)

Match Line Sta. 43+50 (C.B.L.) - Sheet 2C(8)

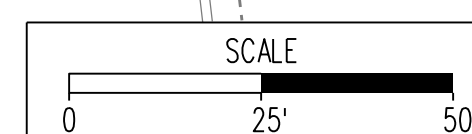
**R/W LEGEND**

[Symbol]	Denotes Prop. Permanent Storm Drainage EASE.
[Symbol]	Denotes Prop. Grading Agreement & Temp. Constr. EASE.
[Symbol]	Denotes Prop. Permanent Sanitary Sewer Utility EASE. for the City of Fairfax
[Symbol]	Denotes Prop. Permanent Waterline Utility EASE. for Fairfax Water

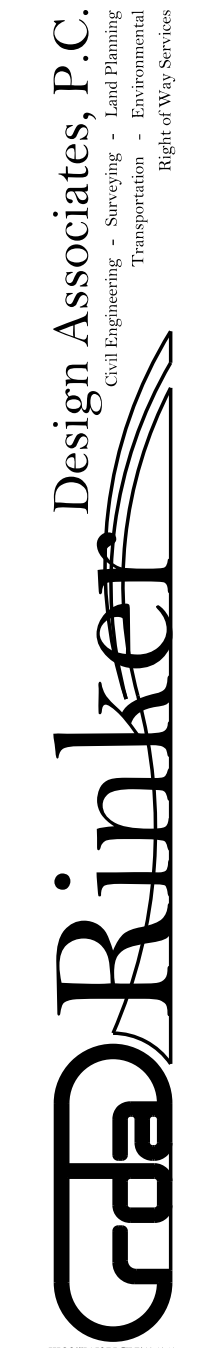
Curve RTE2902  
 PI = 46+89.82  
 DELTA = 6° 40' 50.68" (RT)  
 D = 0° 52' 53"  
 T = 379.38'  
 L = 757.91'  
 R = 6,500.00'  
 PC = 43+10.43  
 PT = 50+68.34  
 V = 35 MPH (Posted)  
 E = Match Existing

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

Survey Control Data Sheets	IF thru IF(1)
Construction Alignment Data Sheets	1G thru 1G(1)
Demolition Summary Roadway Plan Sheet	2C thru 2C(1)

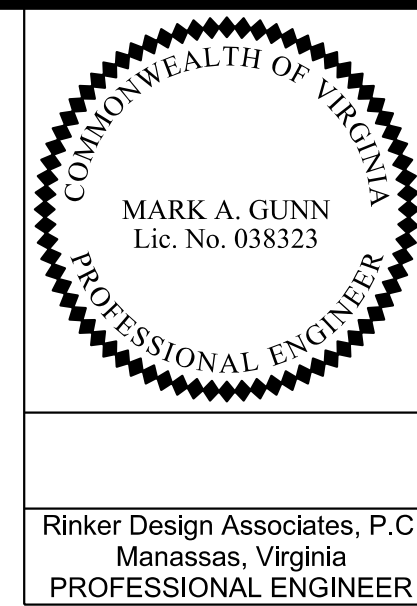


PROJECT	SHEET NO.
0029-151-105	2C(7)





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 AccuTrack (2011)



REVISED 04/22/2014 09/15/2014	STATE VA.	ROUTE -	STATE PROJECT 0029-151-105 P101, P102, R201, C501	SHEET NO. 2C(18)
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

# Demolition Plan Cont.

THIS SHEET IS FOR DEMOLITION INFORMATION ONLY

Utility Owners:  
(See Sheet 3 For Contact Information)

### R/W LEGEND

- Denotes Prop. Permanent Storm Drainage Ease.
- Denotes Prop. Grading Agreement & Temp. Constr. Ease.
- Denotes Prop. Permanent Signal Ease.
- Denotes Prop. Permanent Sanitary Sewer Utility Ease. For the City of Fairfax

**027**  
 Curve RTE2902  
 PI = 46+89.82  
 DELTA = 6° 40' 50.68" (RT)  
 D = 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

**RPB WILLOW WOOD I LLC**  
 \* DB 18493, PG 485  
 4.4952 AC.  
 Tax\* 47-4-(12)-2-1  
 Zone: C2-Commercial

**012**  
**RPB WILLOW WOOD I LLC**  
 DB 18493, PG 485  
 0.4293 AC.  
 Tax\* 47-4-(12)-2-A  
 Zone: C2-Commercial

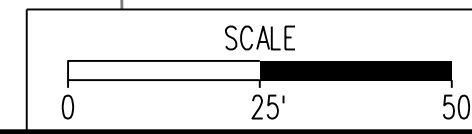
**025**  
**HOWARD W. SHARPE, JR. AND MARILYN A. COLLOM**  
 DB 5402, PG 1980  
 0.8998 AC.  
 Tax\* 57-2-(12)-39  
 Zone: C2-Commercial

**024**  
**ARCP RL PORTFOLIO III, LLC**  
 DB 4571, PG 330  
 19267 AC.  
 Tax\* 57-2-(12)-40A  
 Zone: C2-Commercial

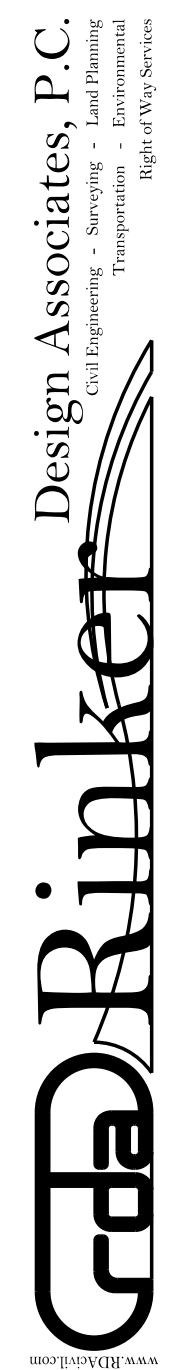
**026**  
**10245 FAIRFAX BOULEVARD LLC**  
 DB 18458, PG 419  
 3.3604 AC.  
 Tax\* 57-2-(12)-38  
 Zone: C2-Commercial

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

Survey Control Data Sheets	IF thru IF(11)
Construction Alignment Data Sheets	1G thru 1G(11)
Typical Sections	2A thru 2A(4)
Demolition Summary	2C thru 2C(11)
Roadway Plan Sheet	8



PROJECT 0029-151-105	SHEET NO. 2C(18)
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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 Accumack (2011)-----

# Hydrologic Data Sheet

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	-	0029-151-105 P101, P102, R201, C501	2H

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

## HYDROLOGIC DATA

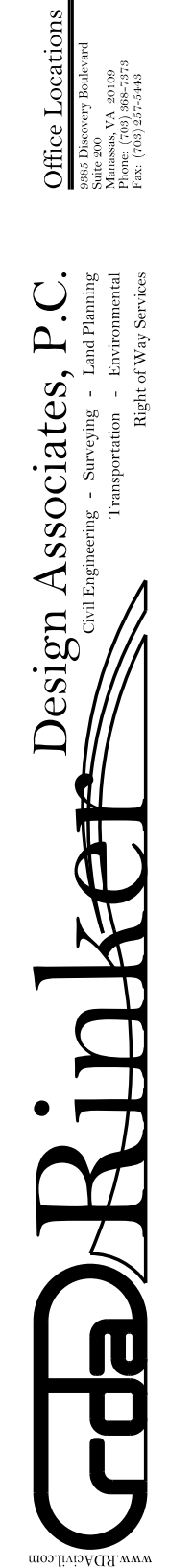
The data presented herein was statistically derived by empirical methods and from field observations. It is presented as an estimate of the hydraulic performance of these facilities during the passage of actual flood events.

1. Estimated 100 year frequency flood data (unless otherwise noted.) This magnitude of flooding may pass through the proposed facility or it may obtain the necessary hydraulic conveyance by partial inundation of roadways and/or partial by pass of the facility.

2. Specified frequency flood data. It is anticipated that this magnitude of flooding will be conveyed through the proposed hydraulic facility under estimated conditions which satisfy the design criteria applicable to the site.

3. This data was obtained from observations by persons familiar with the area and/or official records combined with an evaluation by empirical methods. The reliability of this data is relative to the accuracy of the source. A future flood of the same magnitude may achieve a significantly different stage elevation from that shown due to changes in the physical characteristics of the watershed.

FIELD INSPECTION STAGE <input type="checkbox"/>		FINAL DESIGN STAGE <input checked="" type="checkbox"/>			BASE FLOOD 1.		DESIGN FLOOD 2.			OVERTOPPING FLOOD		HISTORICAL DATA 3.		
Sheet No.	Station	Stream Name	Drainage Area	Structure Size	Discharge (C.F.S.)	Stage Elevation (Ft.)	Discharge (C.F.S.)	Estimated Exceedance Probability %	Stage Elevation (Ft.)	Stage Elevation (Ft.)	Estimated Exceedance Probability %	Date	Stage Elevation (Ft.)	Estimated Exceedance Probability %
5	70+00	North Fork Accotink Creek	-	Twin 8'x8' Transition to Twin 12'x6'	1700	342.7	1100	4%	336.4	348.0	0.2%	-	-	-
REMARKS					Source of Information and Other Related Data									
H & HA Analysis submitted under separate cover														





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)

# Existing Drainage Descriptions

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0029-151-105 P101, P102, R201, C501	2K

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

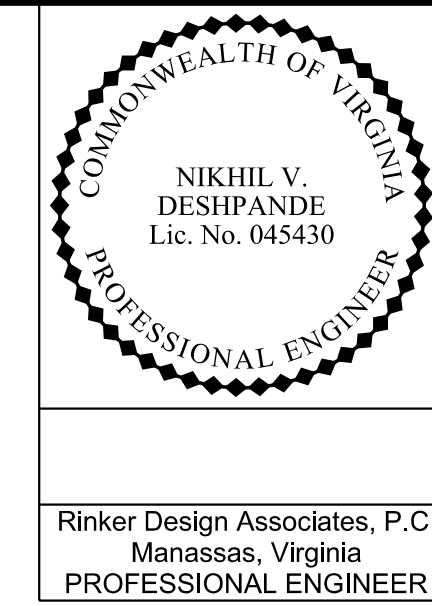
\* Per Record Information

- (1) Storm Inlet-1335  
Top-348.53  
Inv Out-345.20(15" RCP)
- (2) Storm Inlet-1375  
Top-353.31  
Inv In-348.62  
Inv Out-348.29  
In Pl. 24.6'-24" RCP
- (3) Storm Inlet-1384  
Top-351.97  
\* Inv Out-347.41
- (4) Storm MH-1388  
Top-350.75  
Inv In-346.33(27" RCP)  
Inv Out-346.28
- (5) Storm Inlet-1429  
Top-348.62  
Inaccessible
- (6) Storm Inlet-1436  
Top-348.83  
Inv In-343.43(15" RCP)  
Inv In-343.28(24" RCP)  
Inv Out-343.23(24" RCP)
- (7) Storm Inlet-1466  
Top-347.74  
Inv In-343.73  
Inv Out-343.29  
In Pl. 15" RCP
- (8) Storm MH-1467  
Top-347.30  
\* Inv In-341.53  
Inv In-341.53  
Inv Out-341.48
- (9) Storm Grate-1518  
Top-347.07  
\* Inv-343.00  
In Pl. 139'-18" RCP @ 1.44%
- (10) Storm Inlet-1585  
Top-346.78  
Inv Out-343.25(15" RCP)
- (11) Storm Inlet-1640  
Top-342.90  
Not Accessible
- (12) Storm Inlet-1643  
Top-343.30  
Inv Out-339.25  
In Pl. 91.2'-36" RCP @ 2.32%
- (13) Storm Inlet-1726  
Top-343.38  
Inv In-337.13  
Inv Out-337.08  
In Pl. 36" RCP
- (14) Storm MH-1734  
Top-343.28  
Inv In-337.44  
Inv Out-337.18(36" RCP)
- (15) Storm Inlet-1745  
Top-343.78  
Not Accessible
- (16) Storm Inlet-1773  
Top-340.25  
Inaccessible
- (17) Storm Inlet-1796  
Top-341.20  
Inv In-337.00  
Inv Out-336.95  
In Pl. 12.7'-18" RCP @ 1.02%
- (18) Storm Inlet-1801  
Top-341.46  
Inv In-336.82(18")  
Inv In-336.38(27")  
Inv In-335.95(60")  
Inv Out-335.80  
In Pl. 231.5'-60" RCP
- (19) Storm Inlet-1820  
Top-340.68  
Inv In-337.32(15")  
Inv Out-336.83  
In Pl. 64.0'-18" RCP
- (20) Storm Inlet-1827  
Top-341.22  
Inv In-337.83  
Inv Out-337.61  
In Pl. 71.0'-18" RCP @ 0.86%
- (21) Storm Inlet-1938  
Top-339.08  
Inv In-334.69  
Inv Out-334.64  
In Pl. 12.3'-24" RCP @ 5.61%
- (22) Storm Inlet-1943  
Top-338.23  
Inv In-333.95  
Inv Out-333.90  
In Pl. 261.7'-24" RCP @ 1.64%
- (23) Storm Inlet-2002  
Top-334.85  
Inv In-329.97  
Inv Out-329.92  
In Pl. 12.6'-18" RCP @ 2.94%
- (24) Storm Inlet-2007  
Top-334.30  
Inv In-329.55(From-2002)  
Inv In-329.62(From-1943)  
Inv Out-329.50  
In Pl. 44.7'-30" RCP @ 0.67%
- (25) Storm Inlet-2046  
Top-334.83  
Inv Out-330.92  
In Pl. 68.0'-18" RCP @ 1.40%
- (26) Storm Inlet-2053  
Top-332.73  
Inv Out-328.50  
In Pl. 67.6'-24" RCP @ 1.21%
- (27) Storm Inlet-2125  
Top-338.05  
Inv Out-334.85  
In Pl. 10.2'-12" RCP @ 12.25%
- (28) Conc. Wingwall-2139  
w/Railing  
Top-338.5  
Invert-330.70  
In Pl. 307.3'-56" RCP @ 0.93%
- (29) Conc. Structure-2163  
w/Railing  
Top-338.5  
Conc. Ditch  
Invert-331.4
- (30) Storm Inlet-2233  
Top-335.03  
Inv Out-331.44  
In Pl. 7.2'-18" RCP @ 2.35%
- (31) Conc. Wingwall-2253  
w/Railing  
Top-335.5  
Invert-327.85
- (32) Conc. Wingwall-2271  
w/Railing  
Top-335.5  
Invert-331.7
- (33) Storm Inlet-2354  
Top-357.90  
Inv In-354.31  
Inv Out-354.26  
In Pl. 35.0'-18" RCP
- (34) Storm MH-2381  
Top-360.40  
Inv In-356.475  
Inv Out-354.68  
In Pl. 114.7'-15" RCP
- (35) Storm Inlet-2382  
Top-361.39  
Inv In-355.35  
Inv Out-355.20  
In Pl. 23.6'-15" RCP @ 1.91%
- (36) Storm Inlet-2408  
Top-353.25  
Inv In-349.30(18")  
Inv Out-349.20  
In Pl. 27.0'-18" RCP @ 4.88%
- (37) Storm MH-2414  
Top-357.88  
Full of Water
- (38) Storm MH-2487  
Top-362.21  
Inaccessible
- (39) Storm MH-2607  
Top-365.62  
Inv Out-359.74(15" RCP)
- (40) Storm Inlet-2650  
Top-354.50  
Inv Out-350.98(24" RCP)
- (41) Storm Interceptors-2689  
Top-354.30  
Inaccessible
- (42) Storm MH-2971  
Top-338.85  
Full of Water  
Inverts not accessible
- (43) Storm Grate-2993  
Top-337.93  
Approx. Inv-331.5  
In Pl. 60" RCP
- (44) Storm Grate-2998  
Top-338.24  
Inv Out-336.10(10" RCP)
- (45) Storm Grate-3004  
Top-338.72  
Not Accessible
- (46) Storm Inlet-3031  
Top-340.19  
Inv Out-337.48  
In Pl. 19.7'-18" RCP @ 2.74%
- (47) Storm Manhole-3032  
Top-340.07  
Inv In-336.94  
Inv Out-335.64  
In Pl. 106.4'-24" RCP @ 0.89%
- (48) Storm Grate-3038  
Top-340.23  
Approx. Inv-334.1  
In Pl. 60" RCP
- (49) Storm Grate-3055  
Top-341.06  
Inv In-336.77  
Inv Out-336.68  
In Pl. 23.8'-27" RCP @ 1.26%
- (50) Storm MH-3056  
Top-343.91  
Inv In-337.12(27")  
Inv Out-337.05  
In Pl. 71.5'-27" RCP @ 0.50%
- (51) Storm Vault-3064  
Top-345.64  
Inv Out-338.15  
In Pl. 76.4'-18" RCP @ 0.42%
- (52) Storm Grate-3077  
Top-343.46  
Inv Out-341.66(15" RCP)
- (53) Storm Detention Structure-3085  
Top-344.50  
Full of Water
- (54) Storm Structure-3102  
Top-348.40  
Inaccessible
- (55) Storm Inlet-3115  
Top-346.02  
Inv Out-344.75(8" D.J.P.)
- (56) Storm MH-3137  
Top-353.45  
Inv Out-345.62  
In Pl. 22.2'-15" RCP @ 5.81%
- (57) Storm Inlet-3142  
Top-353.17  
Inv In-344.33(Both)  
Inv Out-344.24  
In Pl. 34.8'-15" RCP @ 1.47%
- (58) Storm MH-3144  
Top-347.70  
\* Inv-341.45  
In Pl. 118'-36" RCP @ 0.50%
- (59) Storm Inlet-3179  
Top-353.00  
Inv In-348.70(15")  
Inv In-348.65(33")  
Inv Out-348.46  
In Pl. 14.5'-15" RCP
- (60) Storm Inlet-3187  
Top-352.59  
Inv Out-348.92  
In Pl. 55.3'-15" RCP @ 0.40%
- (61) Storm Inlet-3194  
Top-349.76  
Inv Out-344.22(15" RCP)
- (62) Storm Inlet-3199  
Top-349.30  
Inv In-345.07 (Str61)  
Inv In-345.02 (Str13)  
Inv Out-344.90
- (63) Storm MH-3247  
Top-347.75  
Inaccessible
- (64) Storm Inlet-3246  
Top-347.97  
Inv Out-343.77  
In Pl. 12.6'-15" RCP @ 2.53%
- (65) Storm Inlet-3277  
Top-359.18  
Inv In-354.35(30" RCP)  
Inv Out-354.30  
In Pl. 35.0'-18" RCP @ 0.14%
- (66) Storm MH-3280  
Top-357.64  
Inaccessible
- (67) Storm Inlet-3318  
Top-361.44  
Inv In-362.17(15" RCP)  
Inv Out-361.37  
In Pl. 22.3'-15" RCP @ 3.85%
- (68) Storm MH-3320  
Top-364.40  
Inaccessible
- (69) Storm Inlet-3367  
Top-351.00  
Inv Out-348.50  
In Pl. 11.0'-15" RCP @ 4.66%
- (70) Storm Inlet-3378  
Top-367.34  
Inv In-360.04(48" CMP)  
Storm Detention Structure
- (71) Storm MH-3379  
Top-367.48  
Inv Out-359.94  
In Pl. 10.7'-15" RCP @ 5.61%
- (72) Storm MH-3391  
Top-355.04  
Inv Out-350.30  
In Pl. 25.2'-18" RCP @ 4.37%
- (73) Storm Inlet-3399  
Top-367.7  
Inv Out-362.27  
In Pl. 27.9'-15" RCP @ 8.78%
- (74) Storm Inlet-5033  
Top-369.90  
Inv In-366.11(15")  
Inv Out-366.00  
In Pl. 7.2'-15" RCP @ 9.33%
- (75) Storm Inlet-5048  
Top-365.97  
Inv In-359.34(From-3379)  
Inv In-359.28(From-5033)  
Inv Out-359.22  
In Pl. 113.8'-15" RCP @ 5.7%
- (76) Storm Inlet-5056  
Top-359.60  
Inv In-352.7  
Inv Out-352.6  
Inverts Approx.  
No Access
- (77) Storm Inlet-5067  
Top-352.78  
Inv In-349.32  
Inv Out-349.18(18" RCP)
- (78) Storm Inlet-5078  
Top-369.48  
Inv In-364.72(15")  
Inv Out-364.34  
In Pl. 92.0'-15" RCP @ 5.10%
- (79) Storm Inlet-5093  
Top-364.02  
Inv In-359.82(From-3399)  
Inv In-359.65(From-5078)  
Inv Out-359.38  
In Pl. 32.2'-15" RCP @ 3.29%
- (80) Storm Inlet-5102  
Top-362.29  
Inv In-358.32  
Inv Out-357.32(15" RCP)
- (81) Storm Inlet-5148  
Top-347.90  
Inv Out-344.37(15" RCP)
- (82) Storm Inlet-5201  
Top-346.23  
Inv Out-342.63(15" RCP)
- (83) Storm Inlet-5278  
Top-346.95  
Inv In-341.71  
Inv Out-341.62(24" RCP)
- (84) Storm Inlet-5302  
Top-348.38  
Inv In-343.45  
Inv In-343.37  
Inv Out-343.28  
In Pl. 119.3'-24" RCP @ 1.32%
- (85) Storm Inlet-5338  
Top-352.50  
Inv In-348.02  
Inv In-347.95  
Inv In-347.88  
Inv Out-347.68  
In Pl. 187.3'-18" RCP @ 2.30%
- (86) Storm Inlet-5366  
Top-333.23  
Inv In-328.84(15" CMP)  
Inv Out-328.77  
In Pl. 41.4'-24" CMP @ 1.27%
- (87) Storm Inlet-5408  
Top-332.72  
Inv In-327.68  
Inv Out-327.63  
In Pl. 21.7'-24" RCP @ 1.38%
- (88) Storm Inlet-5416  
Top-332.71  
Inv Out-328.85  
15" RCP Buried Under Rip-Rap
- (89) Storm Manhole-5473  
Top-334.89  
Inv In-325.84(15" From-5512)  
Inv In-325.01(24" From-5507)  
Inv Out-324.91  
In Pl. 15.7'-27" RCP @ 2.72%
- (90) Conc. Headwall-5478  
Top-331.0  
Invert-327.33
- (91) Conc. Wingwall-5483  
Top-335.5  
Invert-325.74
- (92) Conc. Wingwall-5496  
Top-332.5  
Invert-327.3  
In Pl. 352.0'-8"x8" Conc Box Culverts @ 0.51%
- (93) Storm MH-5507  
Top-334.53  
Inaccessible
- (94) Storm Inlet-5512  
Top-335.40  
Inv Out-328.11  
In Pl. 56.2'-15" RCP @ 4.04%
- (95) Storm Inlet-5513  
Top-334.09  
Inv In-330.26  
Inv Out-330.10  
In Pl. 18" RCP
- (96) Storm MH-5518  
Top-333.52  
Inaccessible
- (97) Storm Inlet-5519  
Top-332.15  
Inv In-330.15  
Inv Out-330.10
- (98) Storm Inlet-5529  
Top-335.39  
Inv In-330.70(18" RCP)  
Inv Out-330.63  
In Pl. 78.0'-18" RCP @ 0.47%
- (99) Storm Inlet-5530  
Top-336.33  
Full of Debris  
Inverts not accessible
- (100) Conc. Wingwall-5547  
Top-330.15  
Invert-321.5
- (101) Storm Inlet-5674  
Top-358.95  
Inv In-355.75  
Inv Out-355.53  
In Pl. 17.9'-12" RCP @ 1.00%
- (102) Storm Grate-5871  
Top-357.85  
Inv Out-355.80  
In Pl. 33.9'-12" RCP @ 0.15%
- (103) Manhole  
Top-346.39  
Inaccessible
- \* (104) Manhole  
Top-363.92  
Inv Out-356.14
- \* (105) Manhole  
Top-352.52
- \* (106) Storm Inlet  
Top-347.81  
Inv In-343.83  
Inv In-343.91  
Inv Out-342.22
- \* (107) Storm Grate
- \* (108) Manhole  
Top-347.9  
In Pl. 26'-30" RCP (341.04)
- \* (109) Manhole  
Top-331.90  
Inv In-329.75  
Inv Out-329.29
- (110) Manhole  
Top-376.28  
Inv In-372.96  
Inv Out-370.07
- (111) Manhole  
Top-354.17  
Inv-350.42
- (112) Catch Basin-3407  
Top-355.63  
Inv-351.26
- (113) Storm Manhole-3406  
Top-352.84  
Inv In-349.70  
Inv Out-345.26

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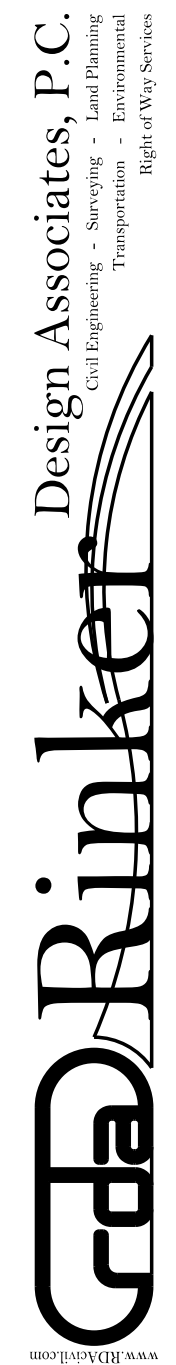
# Proposed Drainage Descriptions



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

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



Sheet 4							
4-1	1 S'd., DI-7 Req'd. Grate A Type III Req'd. H=4.0' Inv.=363.50 Top=367.50 S'd., IS-1 Req'd.	4-13	4.9 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=343.20 Top=348.75 S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe	5-7	1 S'd., DI-3B Req'd. Type B Nose L=4' H=4.2' Inv.=342.00 Top=346.24 S'd., IS-1 Req'd. Connect UD-4 to DI	5-18 to 5-20	15' - 15" Storm Sewer Pipe Req'd. (4' Cover) Inv.(In) 339.70 Inv.(Out) 337.10
4-1 to 4-2	9' - 15" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 363.50 Inv.(Out) 362.30	4-13 to 4-8	29' - 36" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 343.20 Inv.(Out) 342.95	5-7 to 5-8	39' - 15" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 342.00 Inv.(Out) 341.60	5-20	1 S'd., T-DI-3 Top Req'd. Type B Nose L=8' H=6.5' Inv.=337.00 Top=343.45 S'd., IS-1 Req'd. Connect to Existing 36" Pipe 1 S'd., B-1 Base Unit, D=10" S'd., 1/2" Steel Plate Req'd. Connect UD-4 to DI
4-2	1 S'd., DI-3BB Req'd. Type B Nose L=4' H=10.3' Inv.=357.60 Top=348.90 S'd., IS-1 Req'd. S'd., 1/2" Steel Plate Req'd. Connect UD-4 to DI Connect Outlet Pipe to DI	4-15	1 S'd., T-DI-2E Req'd. Type B Nose L=6' H=6.0' Inv.=342.39 Top=348.42 S'd., IS-1 Req'd. Connect to Existing 36" Conc. Pipe 1 S'd., B-2 Doghouse Base Unit, D=6" Connect UD-4 to DI	5-8	1 S'd., DI-3C Req'd. Type B Nose L=6' H=4.7' Inv.=341.50 Top=346.15 S'd., IS-1 Req'd. Connect UD-4 to DI	5-20 to 5-21	11' - 54" Storm Sewer Pipe Req'd. (2' Cover) Inv.(In) 337.00 Inv.(Out) 336.95 Excavated 10' below bottom of pipe backfill with Bedding 4" Material Aggregate #25 or 26 6" Material Aggregate #57 22 Cu Yds. Minor Structure Excavation 2.0 Tons Bedding Material Aggregate Size 25 or 26 Req'd. 3.0 Tons Bedding Material Aggregate Size 57 Req'd.
4-2 to 4-5	24' - 15" Storm Sewer Pipe Req'd. (9' Cover) Inv.(In) 357.60 Inv.(Out) 349.50	4-16	3.1 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=345.07 Top=348.84 S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe 1 S'd., B-2 Doghouse Base Unit, D=36"	5-8 to 5-9	60' - 15" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 341.50 Inv.(Out) 340.90	5-21	5.8 Lin Ft. S'd., MH-2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=336.80 Top=343.23 S'd., IS-1 Req'd. S'd., 1/2" Steel Plate Req'd.
4-3	1 S'd., T-DI-7 Req'd. Grate A Type III Req'd. H=4.3' Inv.=348.75 Top=353.00 S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe 1 S'd., B-2 Doghouse Base Unit, D=36"	4-16 to 4-10	5' - 15" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 345.07 Inv.(Out) 345.00	5-9 to 5-11	16' - 15" Storm Sewer Pipe Req'd. (4' Cover) Inv.(In) 340.80 Inv.(Out) 340.50	5-21 to 5-23	6' - 54" Storm Sewer Pipe Req'd. (2' Cover) Inv.(In) 336.80 Inv.(Out) 336.77 Excavated 10' below bottom of pipe backfill with Bedding 4" Material Aggregate #25 or 26 6" Material Aggregate #57 13 Cu Yds. Minor Structure Excavation 1.2 Tons Bedding Material Aggregate Size 25 or 26 Req'd. 1.7 Tons Bedding Material Aggregate Size 57 Req'd.
4-4	Modify Existing Drop Inlet Adjust to Grade. Raise 0.00' Add S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 353.00 Convert Existing DI to Manhole	Sheet 5 BOX-2	1204' - 8'x8' Precast Double Box Culvert Req'd. (15' Cover) 677' - 12'x6' Precast Double Box Culvert Req'd. (2' Cover) 96' S'd., BCE-OI Req'd. Inv.(In) 330.30 Inv.(Out) 323.35 S'd., BCD-DT, BCD-IO, BCD-O5 & BCW-21 2 S'd., Type K Wings Req'd. 1 S'd., Type H Wing Req'd. 1 Mod. Type H Wing Req'd. 269 Tons S'd., EC-I Class I Type B Installation Req'd. Excavated 10' below bottom of culvert backfill with Bedding 4" Material Aggregate #25 or 26 6" Material Aggregate #57 23.324 Cu Yds. Minor Structure Excavation 1.67 Tons Bedding Material Aggregate Size 25 or 26 Req'd. 1.753 Tons Bedding Material Aggregate Size 57 Req'd. See Sheet 2K(4) For Detail.	5-10 to 5-37	43' - 15" Storm Sewer Pipe Req'd. (4' Cover) Inv.(In) 343.00 Inv.(Out) 342.65	5-22	1 S'd., DI-3B Req'd. Type B Nose L=6' H=6.8' Inv.=337.20 Top=344.00 S'd., IS-1 Req'd. Connect UD-4 to DI
4-5	Modify Existing Curb Inlet Adjust to Grade. Raise 0.17' Add T-DI-2B, L=10' Type B Nose Proposed Top Elev. 353.48 Modify to Accept 15" Conc. Pipe Connect UD-4 to DI	5-1	1 S'd., T-DI-2E Req'd. Type B Nose L=6' H=6.6' Inv.=341.88 Top=348.48 S'd., IS-1 Req'd. Connect to Existing 36" Pipe 1 S'd., B-2 Doghouse Base Unit, D=6" Connect UD-4 to DI	5-11	6.2 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=339.60 Top=346.50 S'd., IS-1 Req'd. Connect to Existing Triple 5'x5' Box Culvert Connect to Existing 60" Pipe 1 S'd., B-2 Doghouse Base Unit, D=8"	5-22 to 5-23	6' - 15" Storm Sewer Pipe Req'd. (16' Cover) Inv.(In) 337.20 Inv.(Out) 337.00
4-6	4.8 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=344.90 Top=350.39 S'd., IS-1 Req'd. Connect to Existing 27" Pipe Connect to Existing 30" Pipe	5-2	1 S'd., DI-3B Req'd. Type B Nose L=8' H=5.5' Inv.=345.00 Top=350.52 S'd., IS-1 Req'd. Connect UD-4 to DI Connect Outlet Pipe to DI	5-12 to 5-13	20' - 30" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 342.70 Inv.(Out) 342.50	5-23	Modify Existing Junction Box Adjust to Grade. Lower 0.55' Add S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 343.23 S'd., IS-1 Req'd. Modify to Accept 15" Conc. Pipe Modify to Accept 54" Conc. Pipe Convert Existing DI to Manhole
4-6 to 4-13	98' - 36" Storm Sewer Pipe Req'd. (12' Cover) Inv.(In) 344.90 Inv.(Out) 344.00	5-2 to 5-3	41' - 15" Storm Sewer Pipe Req'd. (4' Cover) Inv.(In) 345.00 Inv.(Out) 344.10	5-13 to Box-2	6' - 30" Storm Sewer Pipe Req'd. (13' Cover) Inv.(In) 334.05 Inv.(Out) 334.00	5-24	1 S'd., DI-3B Req'd. Type B Nose L=12' H=5.5' Inv.=337.50 Top=343.00 S'd., IS-1 Req'd. Connect UD-4 to DI
4-7	1 S'd., T-DI-3B Req'd. Type B Nose L=8' H=5.3' Inv.=343.54 Top=348.83 S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe 1 S'd., B-2 Doghouse Base Unit, D=36" Connect UD-4 to DI	5-3	3.8 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=343.98 Top=348.45 S'd., IS-1 Req'd. Connect to Existing 15" Pipe 1 S'd., B-2 Doghouse Base Unit, D=36" Contractor to verify existing Invert elevation	5-14 to 5-15	31' - 15" Storm Sewer Pipe Req'd. (4' Cover) Inv.(In) 342.00 Inv.(Out) 341.45	5-25	1 Mod. JB-I Req'd. H=15.0' W=9' D=25' Type B Tower Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=328.53 Top=343.50 S'd., 1/2" Steel Plate Req'd. See Sheet 2K(3) For Detail.
4-8	4.9 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=342.80 Top=348.38 S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe Connect to Existing 36" Conc. Pipe	5-4	Adjust Existing Manhole Adjust to Grade. Raise 0.70' 1 S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 348.00 Contractor to verify existing Invert elevation	5-15	Modify Existing Manhole Adjust to Grade. Lower 0.14' 1 S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 346.25 S'd., IS-1 Req'd. Modify to Accept 15" Conc. Pipe	5-26	1 Mod. JB-I Req'd. H=12.7' W=10' D=12' 1 S'd., T-DI-2B, L=6' Req'd. Type B Nose Inv.=331.05 Top=343.76 Connect to Existing 60" Conc. Pipe S'd., 1/2" Steel Plate Req'd. Connect UD-4 to DI See Sheet 2K(3) For Detail.
4-9	1 S'd., DI-3B Req'd. Type B Nose L=6' H=4.1' Inv.=345.50 Top=349.60 S'd., IS-1 Req'd.	5-5	Adjust Existing Manhole Adjust to Grade. Lower 0.00' 1 S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 347.60	5-16	1 Mod. DI-3A Req'd. Type B Nose H=3.5' Inv.=343.25 Top=346.70 Less Than Minimum Height 1 S'd., Monolithic Box Req'd. See Sheet 2K(3) For Detail. S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe Connect UD-4 to DI	5-26 to 5-25	17' - 72" Storm Sewer Pipe Req'd. (7' Cover) Inv.(In) 331.05 Inv.(Out) 331.00 Excavated 10' below bottom of pipe backfill with Bedding 4" Material Aggregate #25 or 26 6" Material Aggregate #57 85 Cu Yds. Minor Structure Excavation 4.3 Tons Bedding Material Aggregate Size 25 or 26 Req'd. 6.5 Tons Bedding Material Aggregate Size 57 Req'd.
4-9 to 4-16	28' - 15" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 345.50 Inv.(Out) 345.07	5-6	1 S'd., DI-3BB Req'd. Type B Nose L=12' H=11.8' Inv.=335.25 Top=347.09 S'd., IS-1 Req'd. S'd., 1/2" Steel Plate Req'd. Connect UD-4 to DI	5-17	Modify Existing Manhole Adjust to Grade. Lower 1.50' 1 S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 346.40	5-27	1 S'd., DI-3B Req'd. Type B Nose L=8' H=5.5' Inv.=339.70 Top=345.21 S'd., IS-1 Req'd. Connect UD-4 to DI
4-10	1 S'd., DI-3B Req'd. Type B Nose L=4' H=4.6' Inv.=344.90 Top=349.50 S'd., IS-1 Req'd.	5-6 to Box-2	6' - 15" Storm Sewer Pipe Req'd. (11' Cover) Inv.(In) 335.25 Inv.(Out) 335.10	5-18			
4-10 to 4-11	9' - 15" Storm Sewer Pipe Req'd. (3' Cover) Inv.(In) 344.90 Inv.(Out) 344.85						
4-11	3.5 Lin Ft. S'd., MH-I or 2 Req'd. 1 S'd., MH-I Frame & Cover Req'd. Inv.=344.85 Top=349.00 S'd., IS-1 Req'd. Connect to Existing 15" Conc. Pipe 1 S'd., B-2 Doghouse Base Unit, D=36"						
4-12	Adjust Existing Manhole Adjust to Grade. Raise 0.00' 1 S'd., MH-I Frame & Cover Req'd. Proposed Top Elev. 351.97						

PROJECT	SHEET NO.
0029-151-105	2K(1)



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)

Proposed Drainage Descriptions

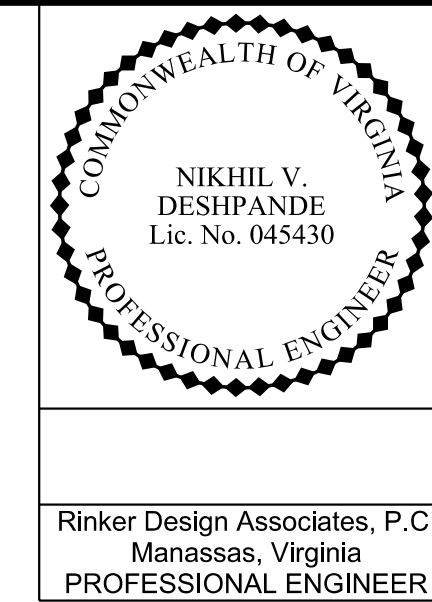
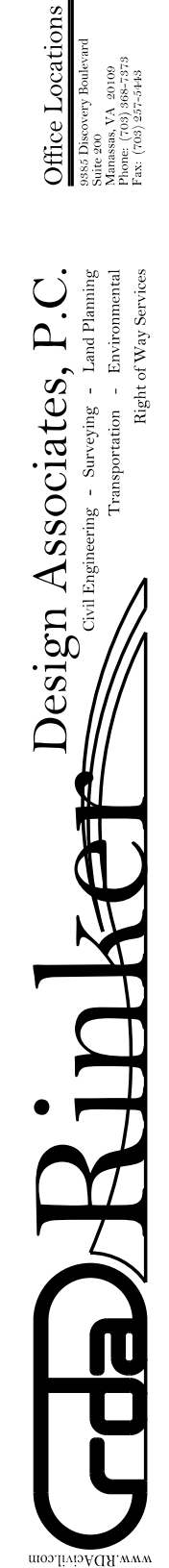


Table with columns: REVISED, STATE, ROUTE, PROJECT, SHEET NO. Values: VA, -, 0029-151-105 P101, P102, R201, C501, 2K(2)

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



Main table with columns: Stationing, Description, Pipe Size, Material, Invert/Elevation, Notes. Contains detailed drainage specifications for various pipe segments.

Notes: For non-standard structures the contractor shall provide shopdrawings, for approval, to the City of Fairfax prior to ordering materials. The contractor shall conduct a post installation visual/video camera inspection of all storm sewer pipes and a select number of pipe culverts in accordance with the requirements of Section 302.03 (d) of the VDOT Supplemental Road and Bridge Specifications and VTM 123. The condition of existing structures that the design ties into is to be inspected by the contractor in conjunction with the City of Fairfax prior to construction and the contractor is to be responsible for repair or replacement of the structure at the discretion of the City of Fairfax.

Table with columns: PROJECT, SHEET NO. Values: 0029-151-105, 2K(2)

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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SUBSURFACE UTILITY PROVIDED BY AccuTrack (2011)

# Junction Box & Monolithic Box Details

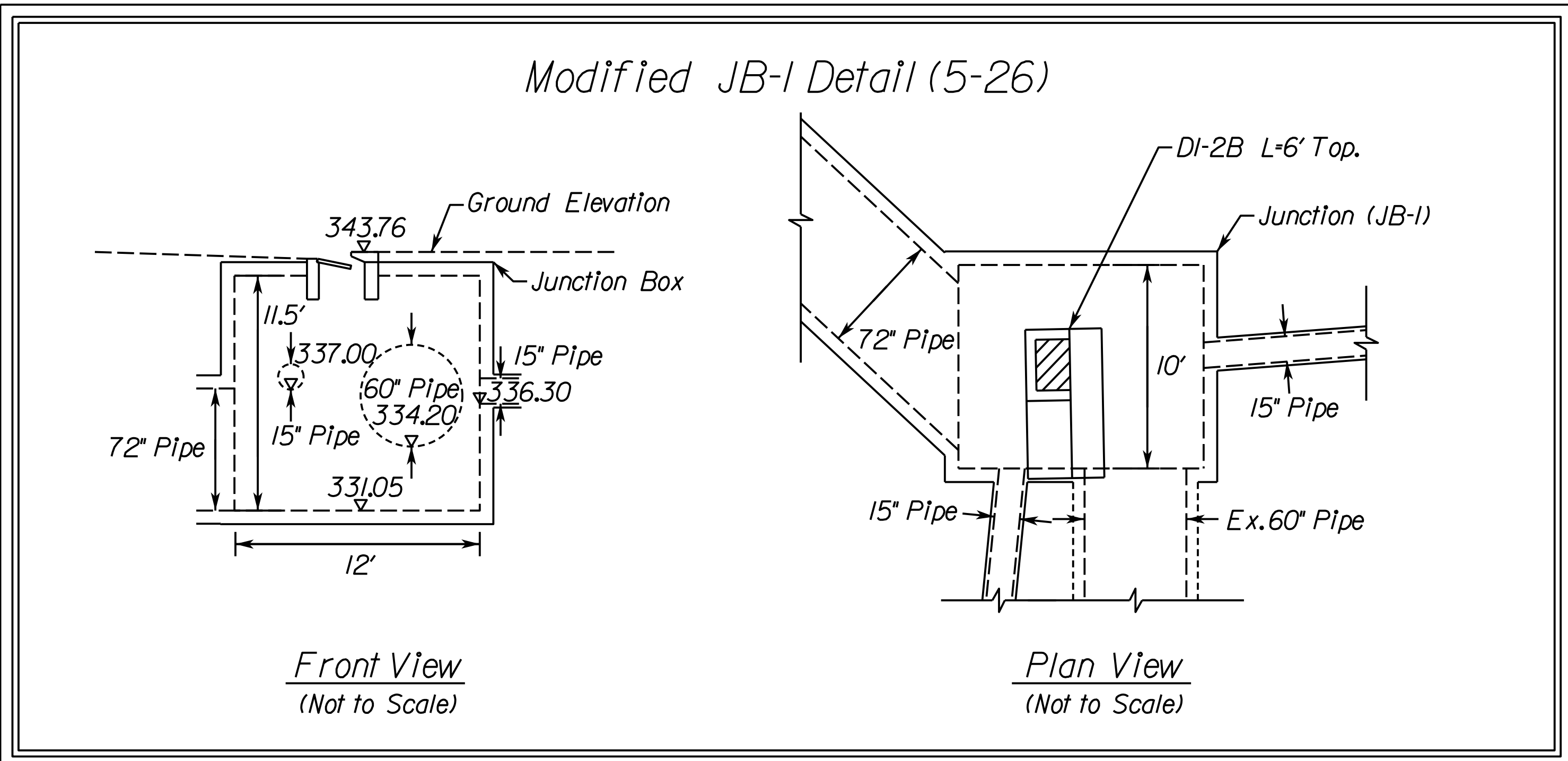
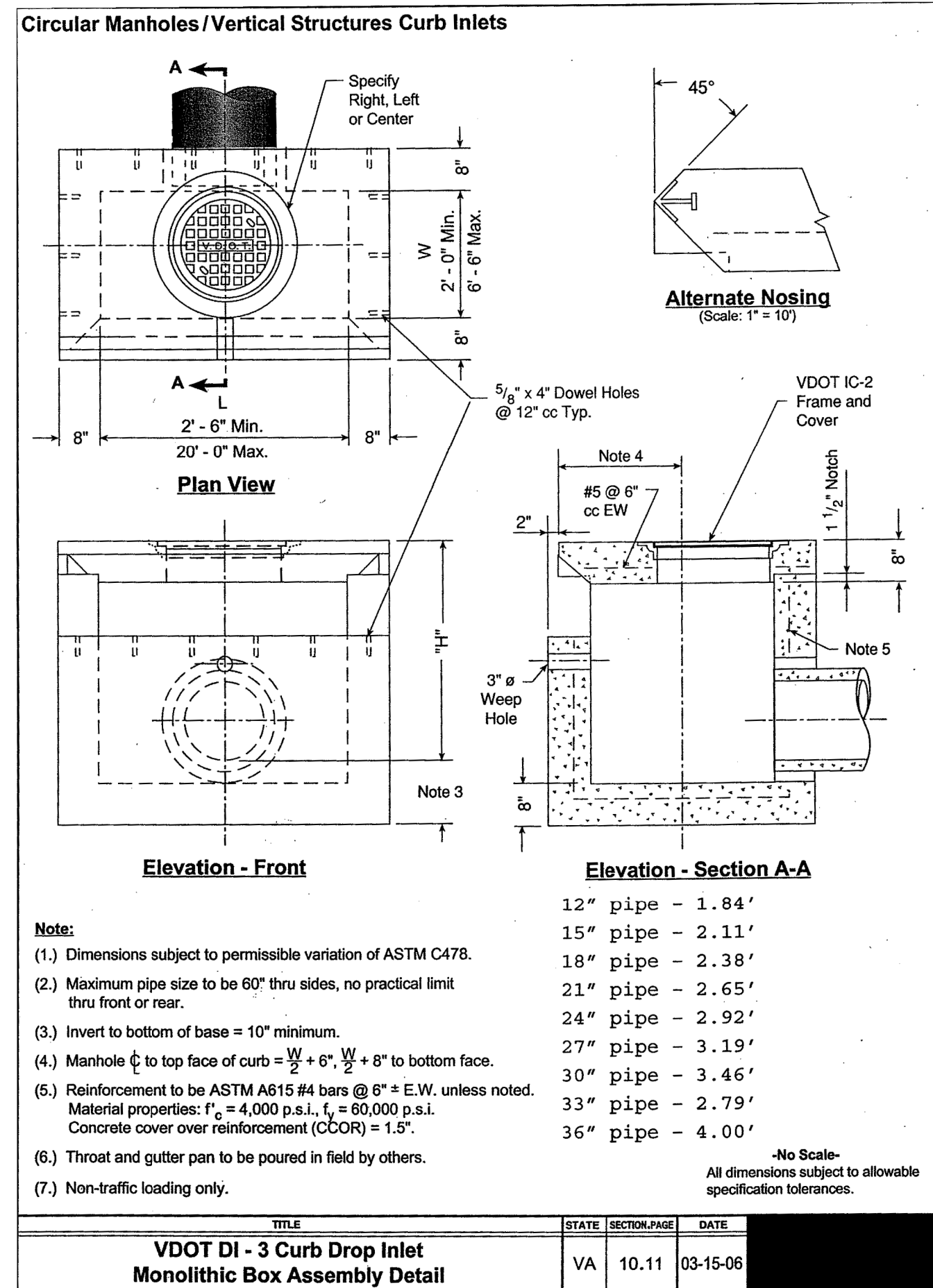
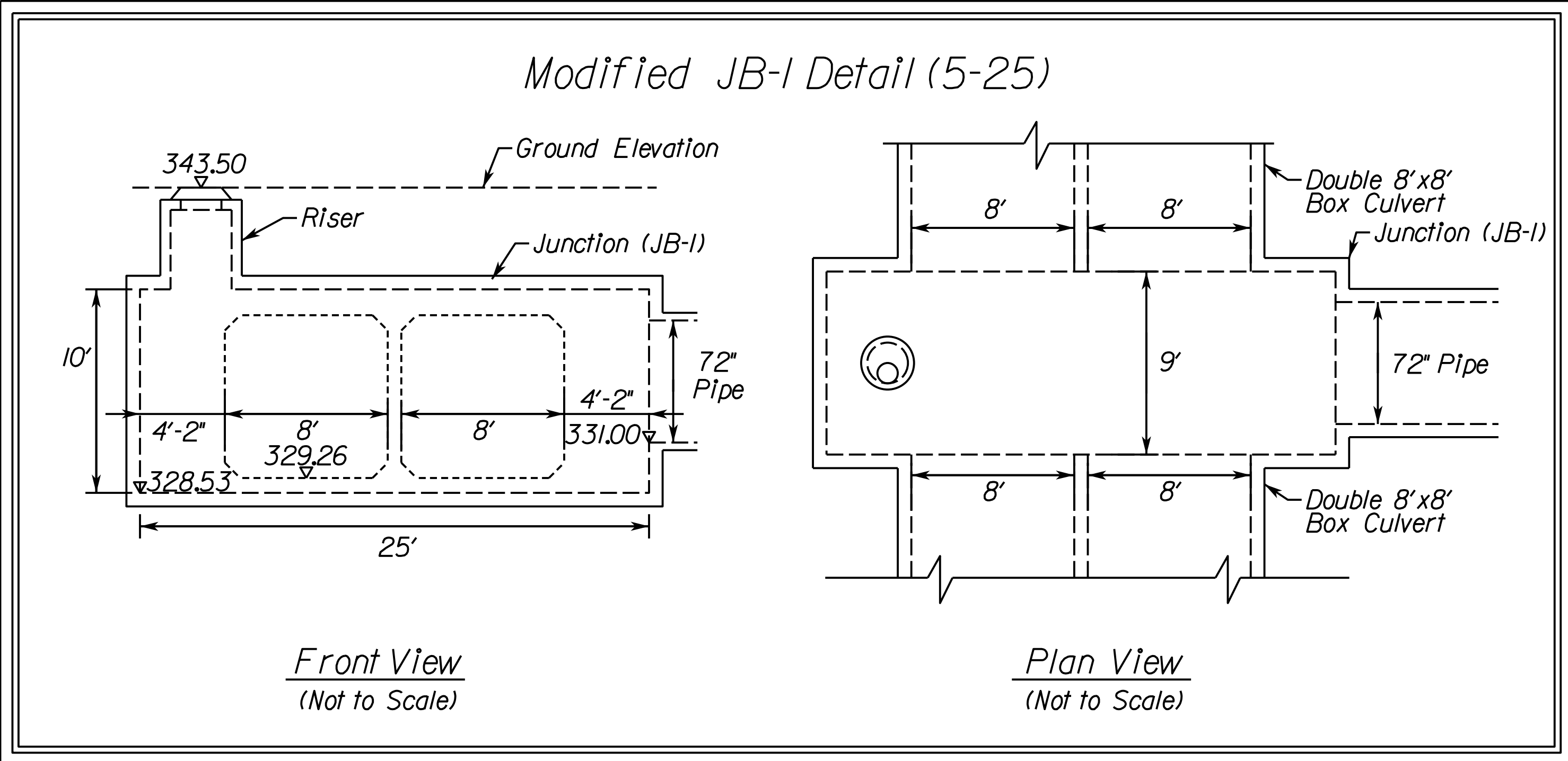
COMMONWEALTH OF VIRGINIA  
 NIKHIL V. DESHPANDE  
 Lic. No. 045430  
 PROFESSIONAL ENGINEER

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2K(3)

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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# Modified Wall (Structure 8-2) & Box Culvert Radial Curve

NOTE: Contractor shall provide VDOT and/or The City of Fairfax detailed Shop drawings for approval of the Modified Wall.

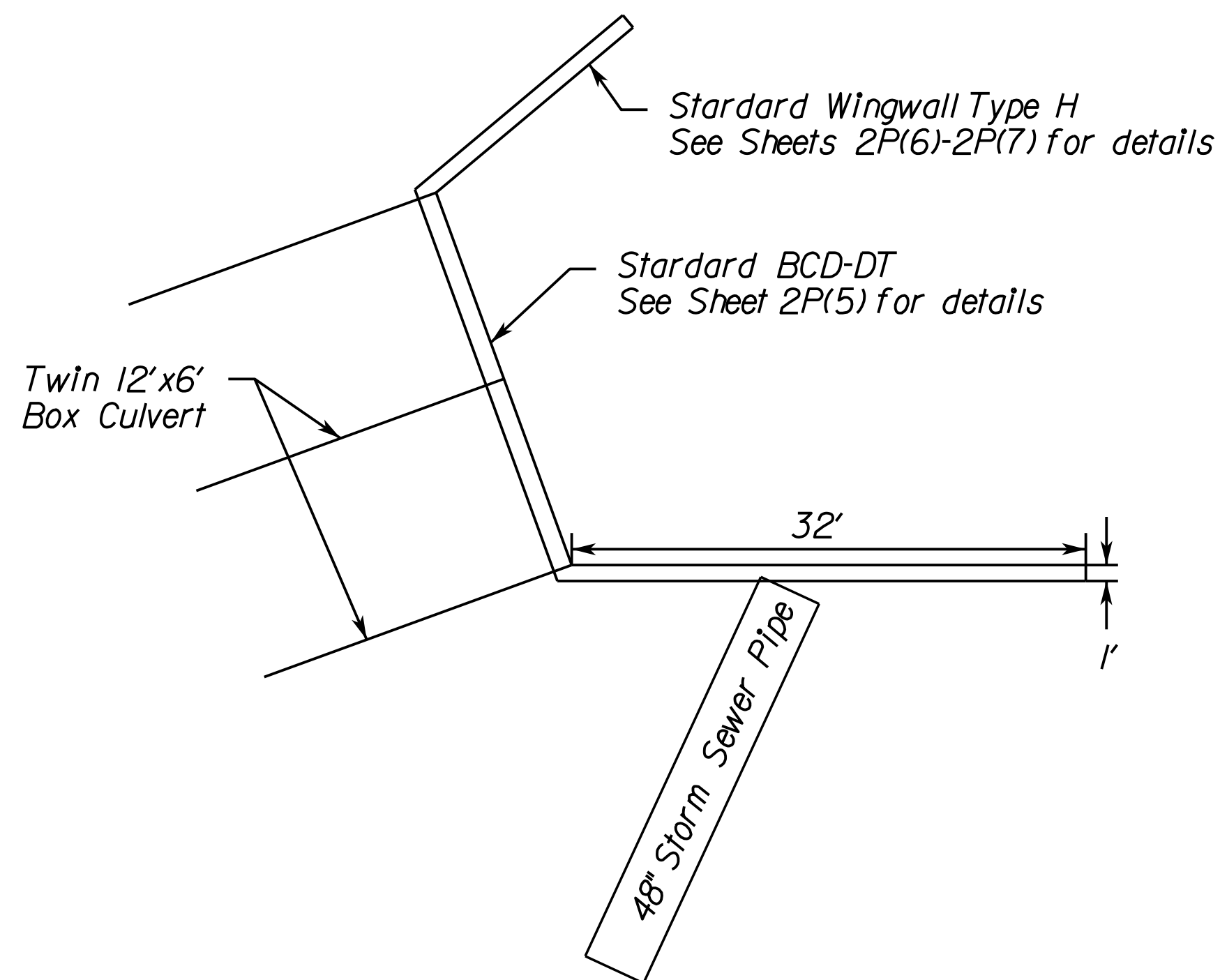
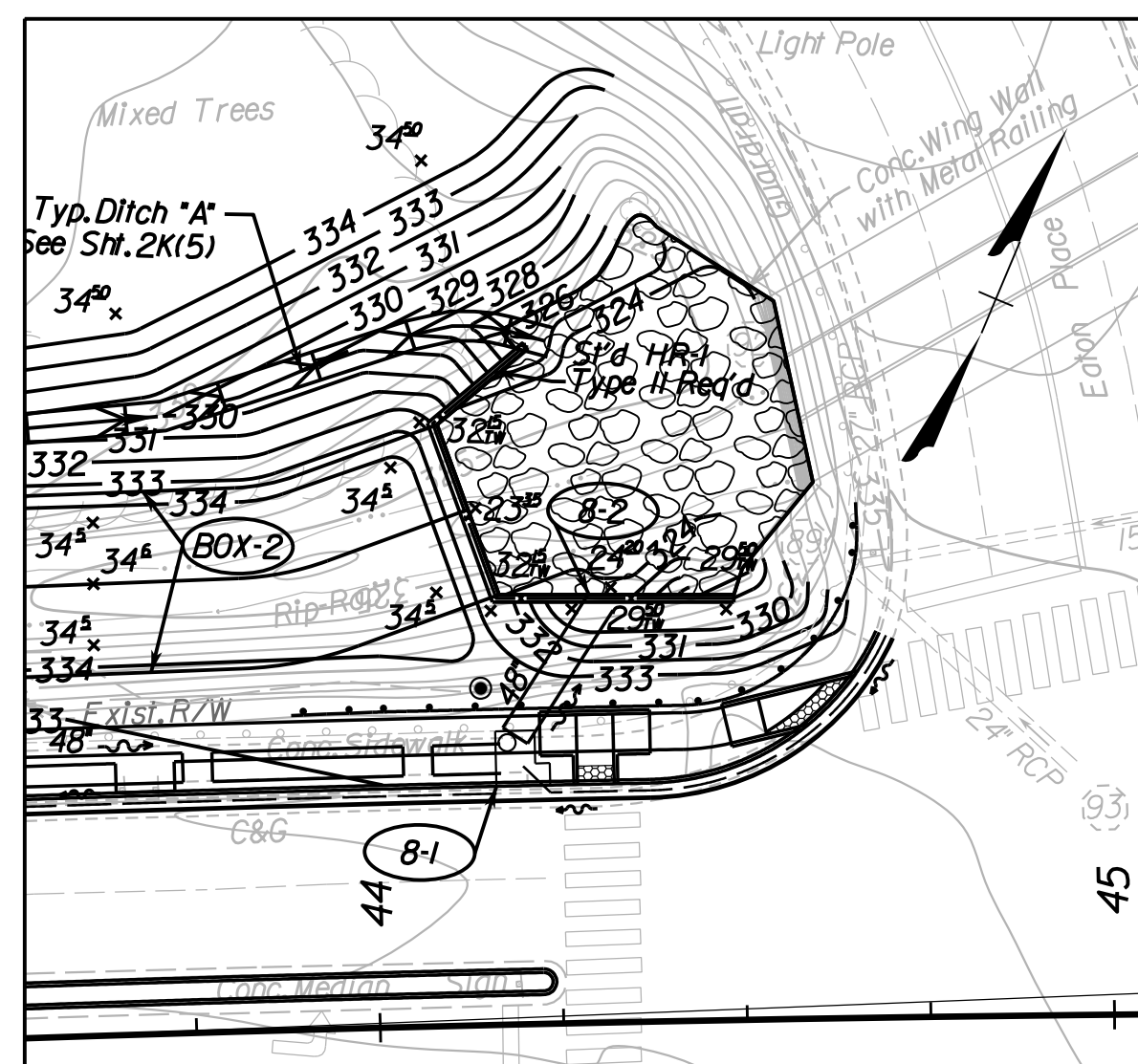
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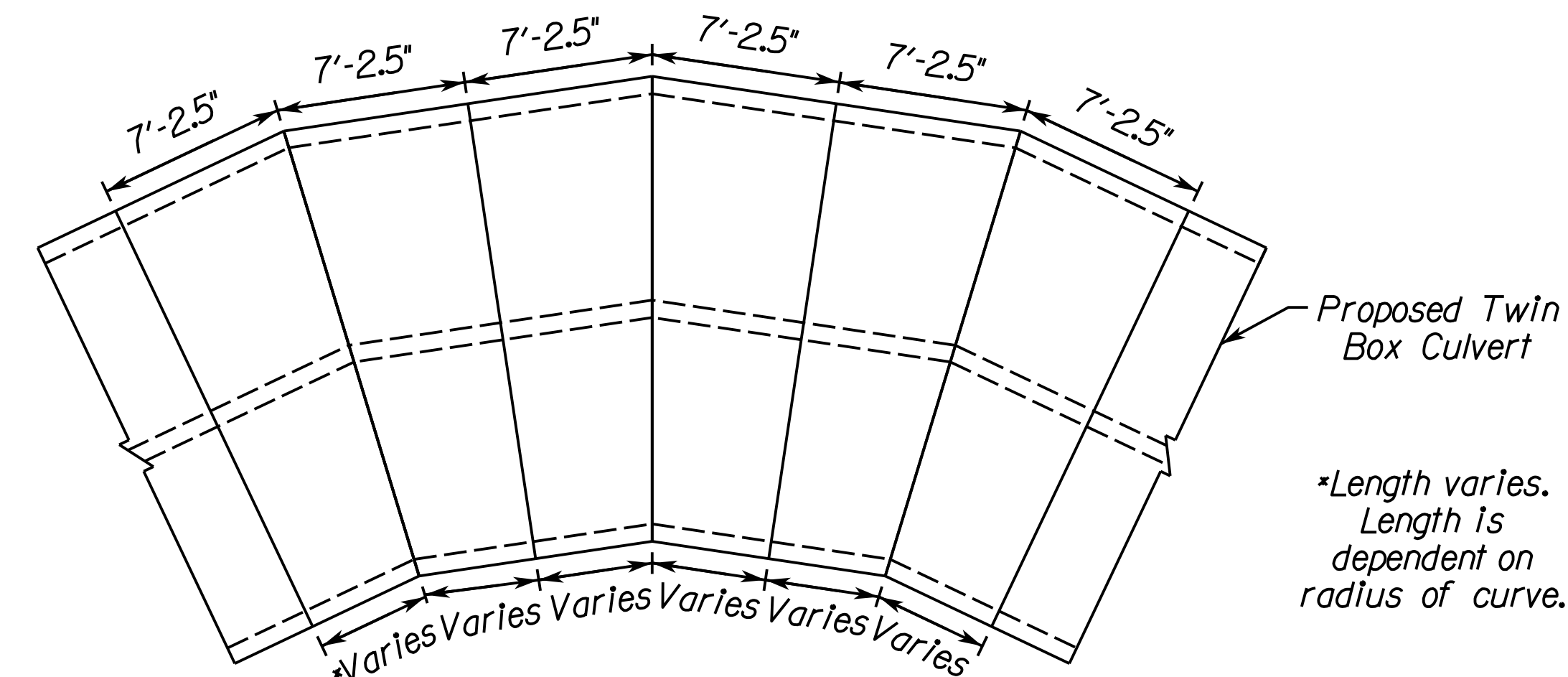
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		0029-151-105 PI01, PI02, R201, C501	2K(4)

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

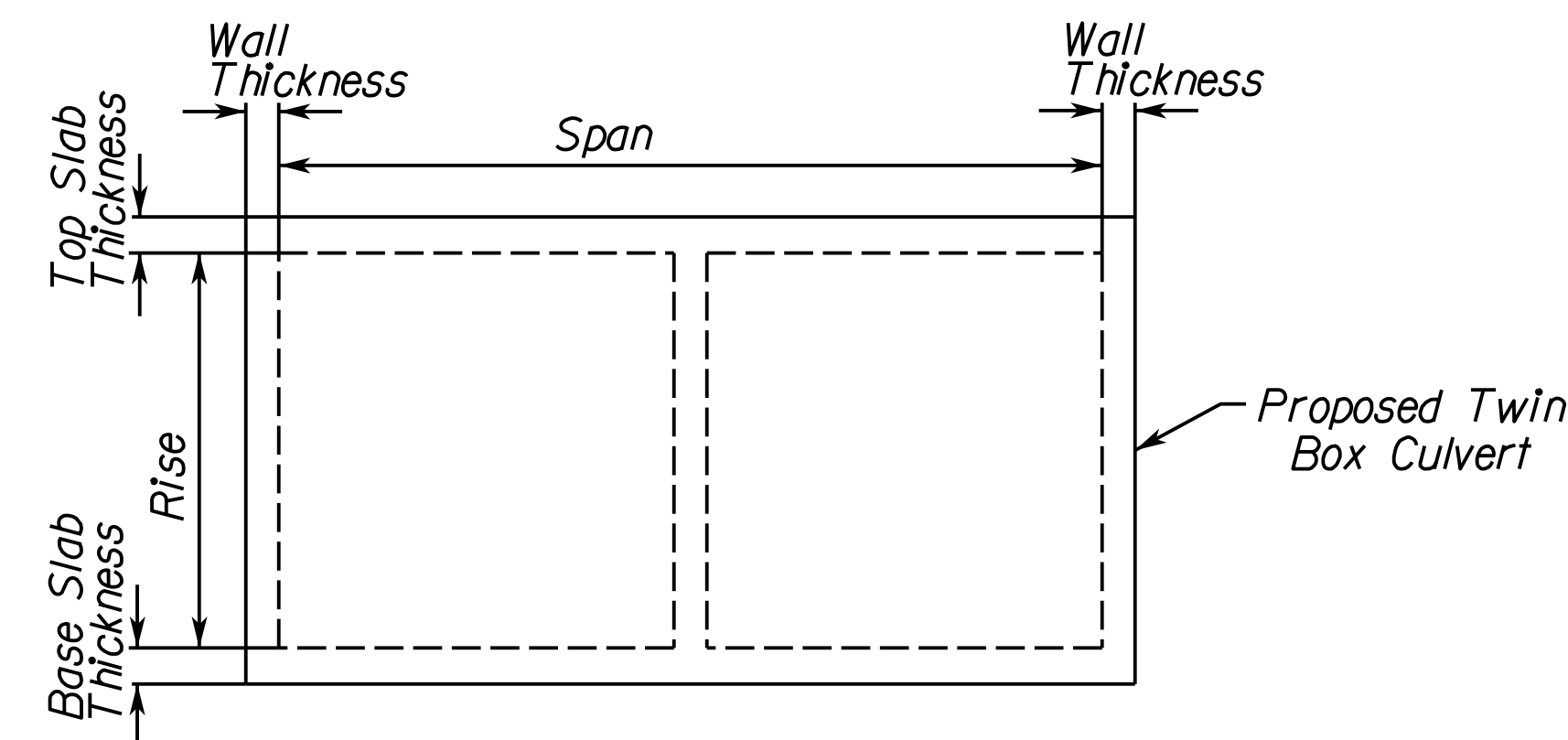
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(25 Scale)



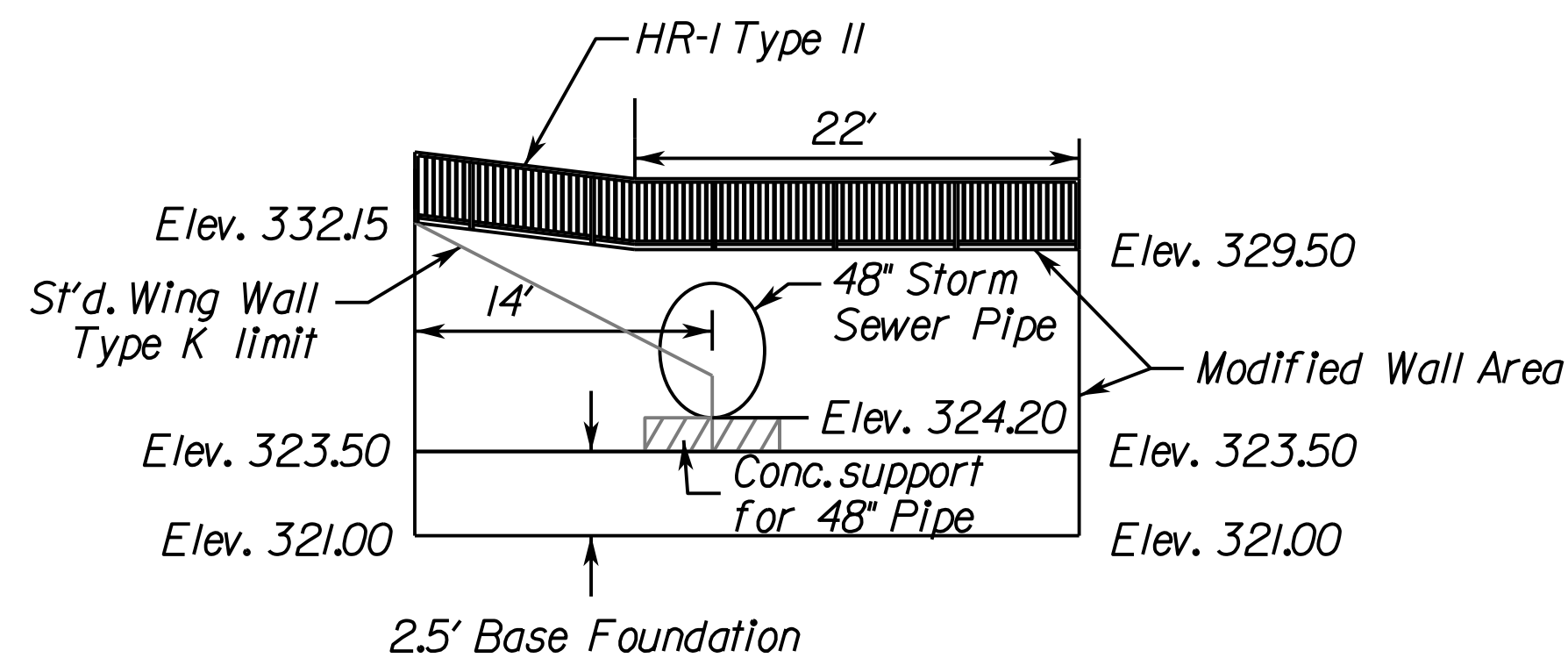
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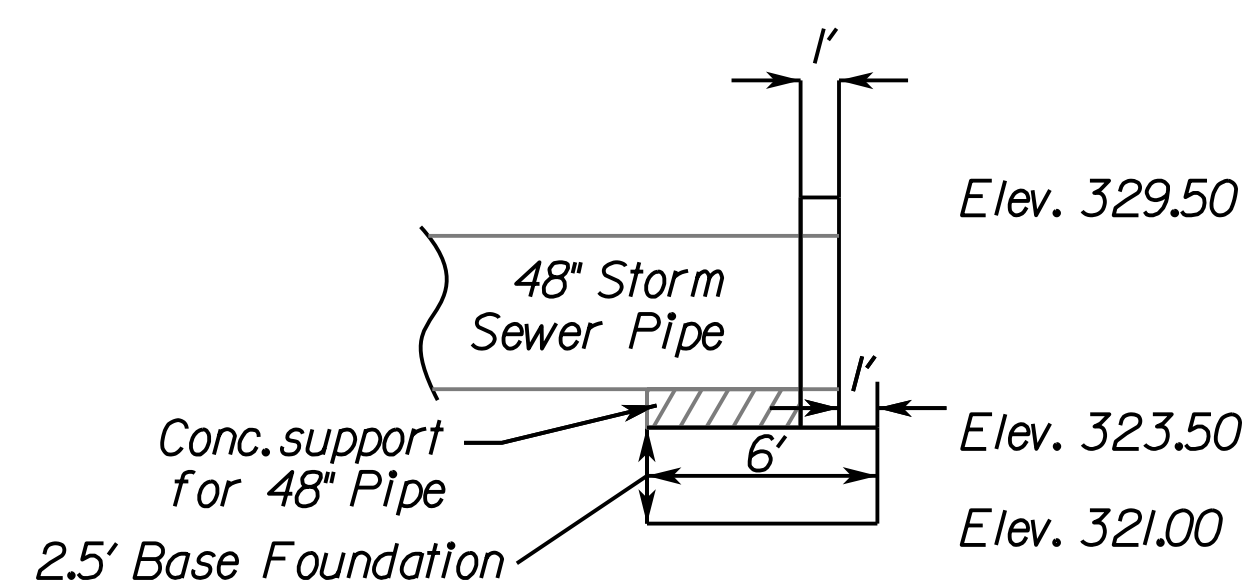
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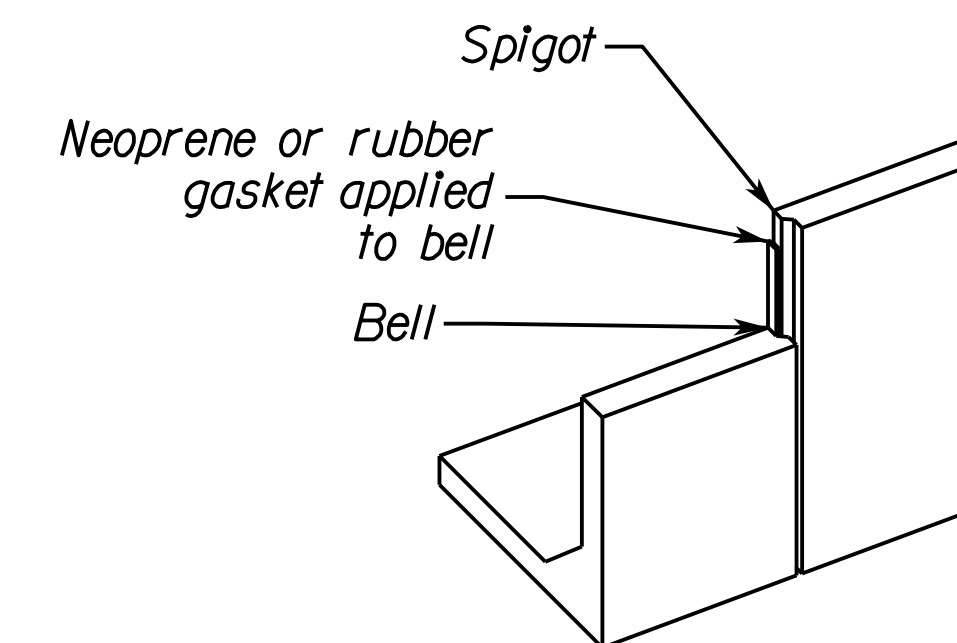
Typ. Section  
(Not to Scale)



Front View  
(Not to Scale)



End View  
(Not to Scale)



Joint Detail  
(Not to Scale)

NOTE:  
 - Radial curve shown for illustration purposes. Manufacturer/contractor to determine and utilize appropriate approach for construction and installation.  
 - All box culvert design and material parameters to conform to VDOT Standard.

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 SUBSURFACE UTILITY PROVIDED BY Accumark (2011)-----

NIKHIL V. DESHPANDE  
 Lic. No. 045430  
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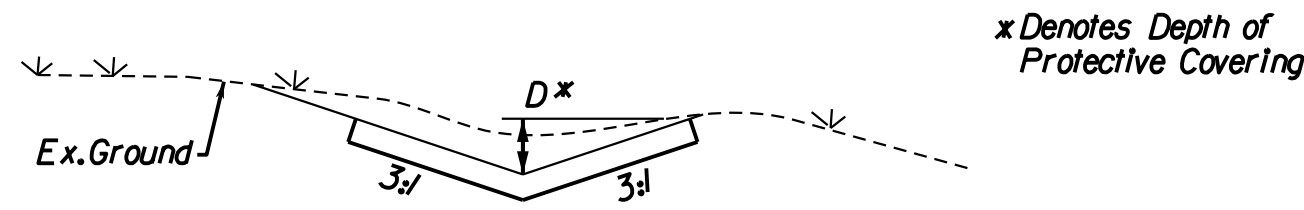
Rinker Design Associates, P.C.  
 Manassas, Virginia  
 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2K(15)

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

# Ditch Typicals

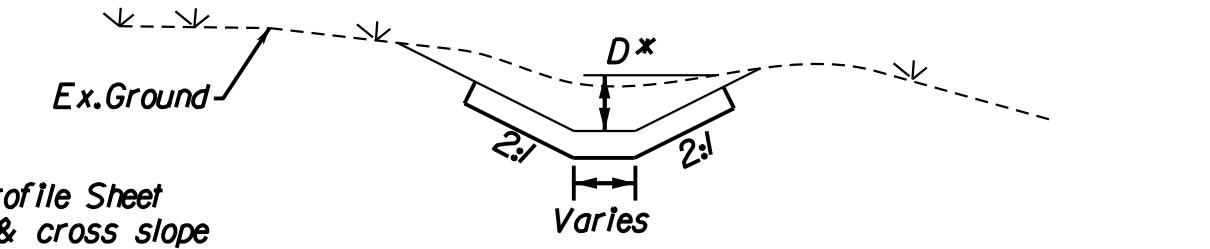
Typical Ditch "A"  
Proposed Ditch



See Cross Sections and Profile Sheet for ditch location, elevation, & cross slope

Location	Station	to	Station	D*	Lining
Route 29/50 (Left)	29+05	to	29+05	1'	EC-3 Type B
Route 29/50 (Left)	41+75	to	44+25	1'	EC-3 Type B

Typical Ditch "B"  
Proposed Ditch



See Cross Sections and Profile Sheet for ditch location, elevation, & cross slope

Location	Station	to	Station	W	D*	Lining	Thickness
Route 29/50 (Left)	22+80	to	24+25	9	4'	St'd PG-3 Class II Req'd	38"
Route 29/50 (Left)	24+25	to	25+10	13	4'	St'd PG-3 Class II Req'd	38"



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 SUBSURFACE UTILITY PROVIDED BY AccuMark (2011)

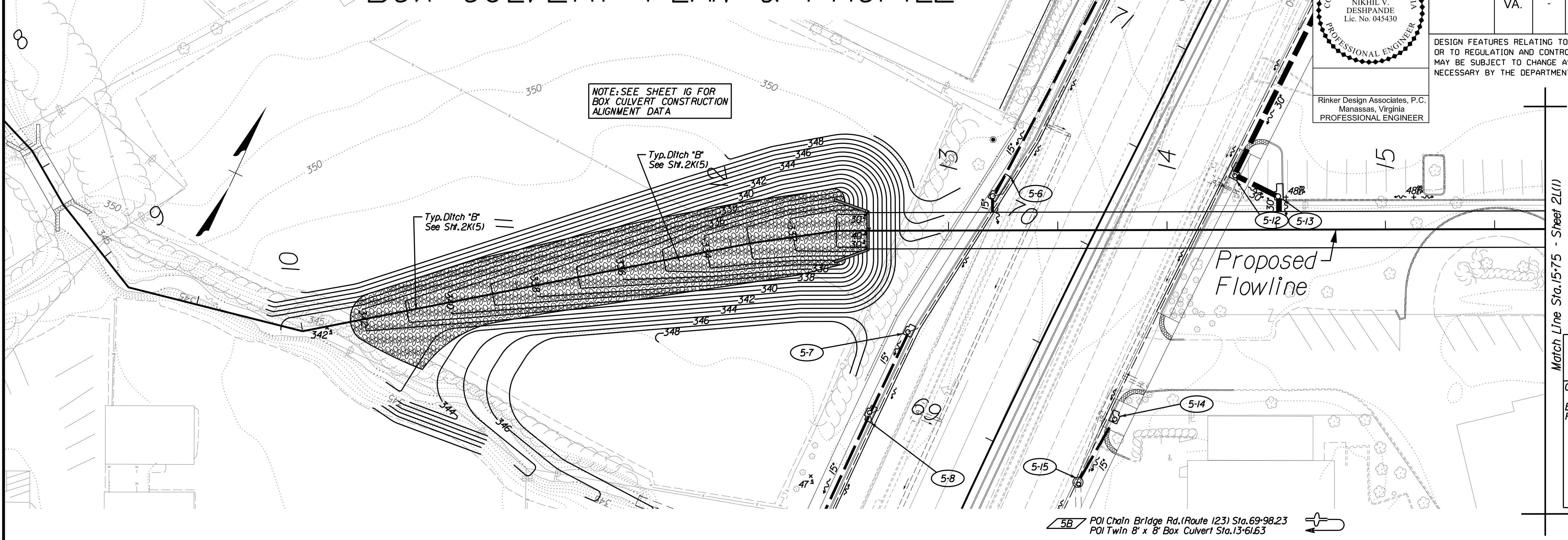
# BOX CULVERT PLAN & PROFILE

COMMONWEALTH OF VIRGINIA  
 NIKHIL V. DESHPANDE  
 Lic. No. 045430  
 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	2L

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

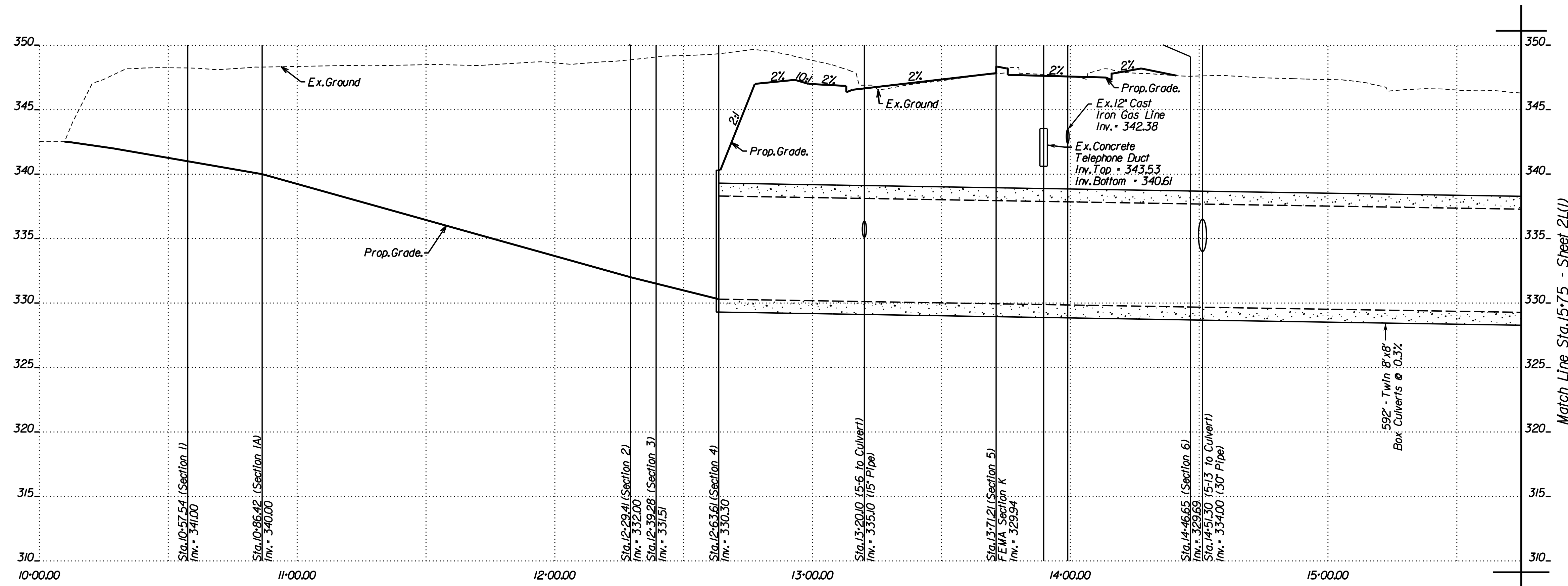


SCALE  
 0 25' 50'

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

Construction Alignment	1G thru 1G(1)
Data Sheets	2K
Existing Drainage Descriptions	3 thru 8A
Roadway Plans	

5B POI Chain Bridge Rd. (Route 123) Sta. 69+98.23  
 POI Twin 8' x 8' Box Culvert Sta. 13+61.63



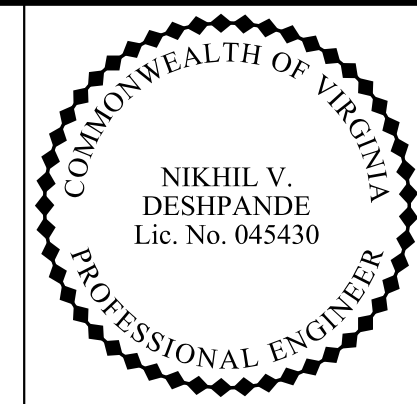
PROJECT	SHEET NO.
0029-151-105	2L

Office Locations  
 Rinker Design Associates, P.C.  
 11000 Old Dominion Blvd., Suite 200  
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 www.rinker.com

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 SUBSURFACE UTILITY PROVIDED BY Accumatk (2011)

# BOX CULVERT PLAN & PROFILE CONT.

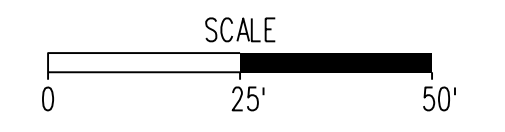
NOTE: SEE SHEET 1G FOR BOX CULVERT CONSTRUCTION ALIGNMENT DATA



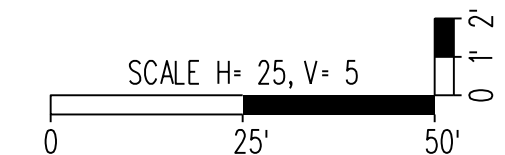
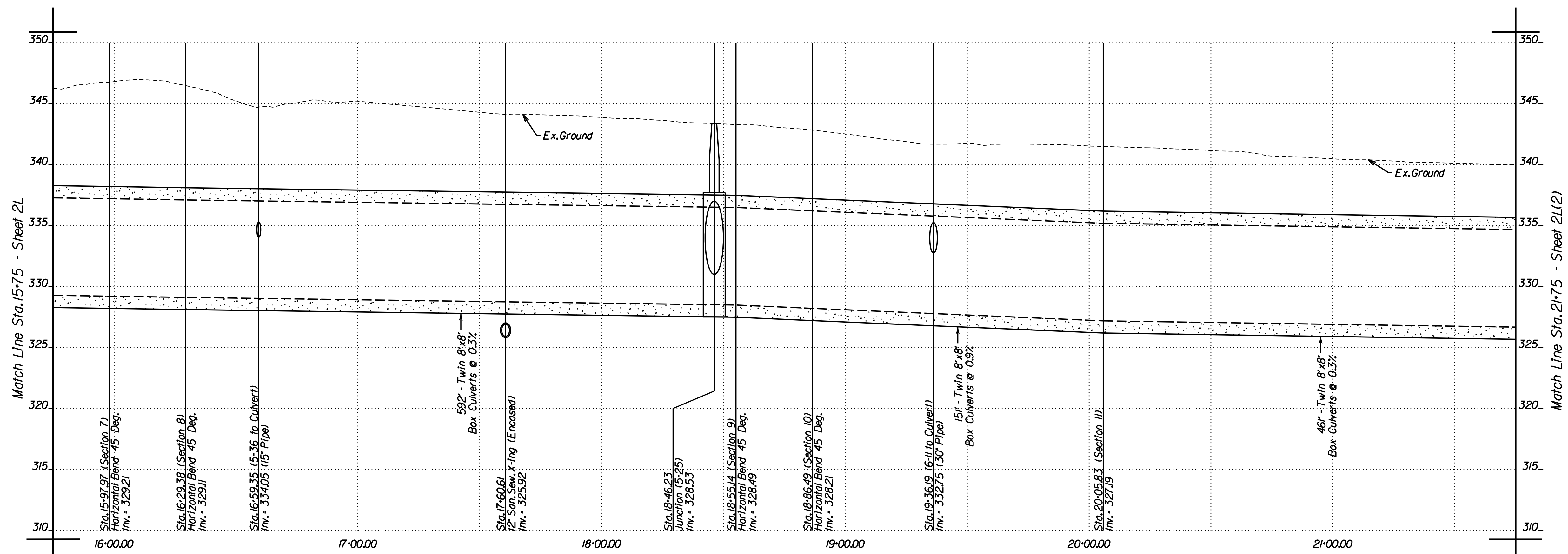
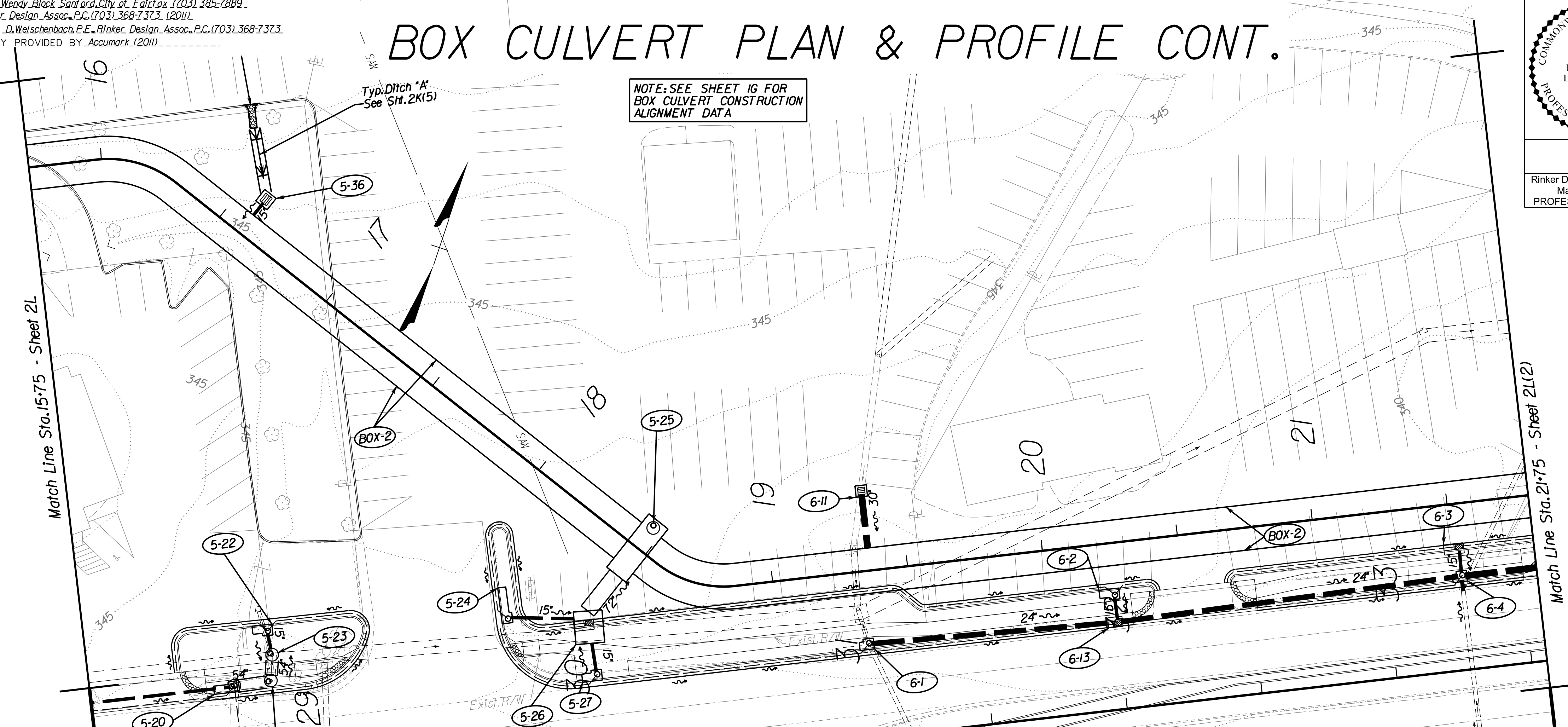
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 Manassas, Virginia  
 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2L(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.)	
Construction Alignment	1G thru 1G(1)
Data Sheets	2K
Existing Drainage Descriptions	3 thru 8A
Roadway Plans	



PROJECT	SHEET NO.
0029-151-105	2L(1)



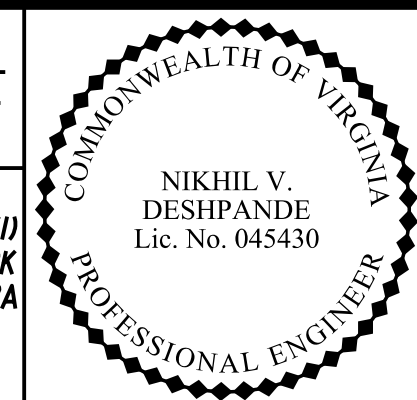


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# BOX CULVERT PLAN & PROFILE CONT.

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

Construction Alignment 16 thru 16(1)  
Data Sheets 2K  
Existing Drainage Descriptions 2K  
Roadway Plans 3 thru 8A

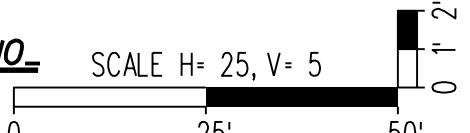
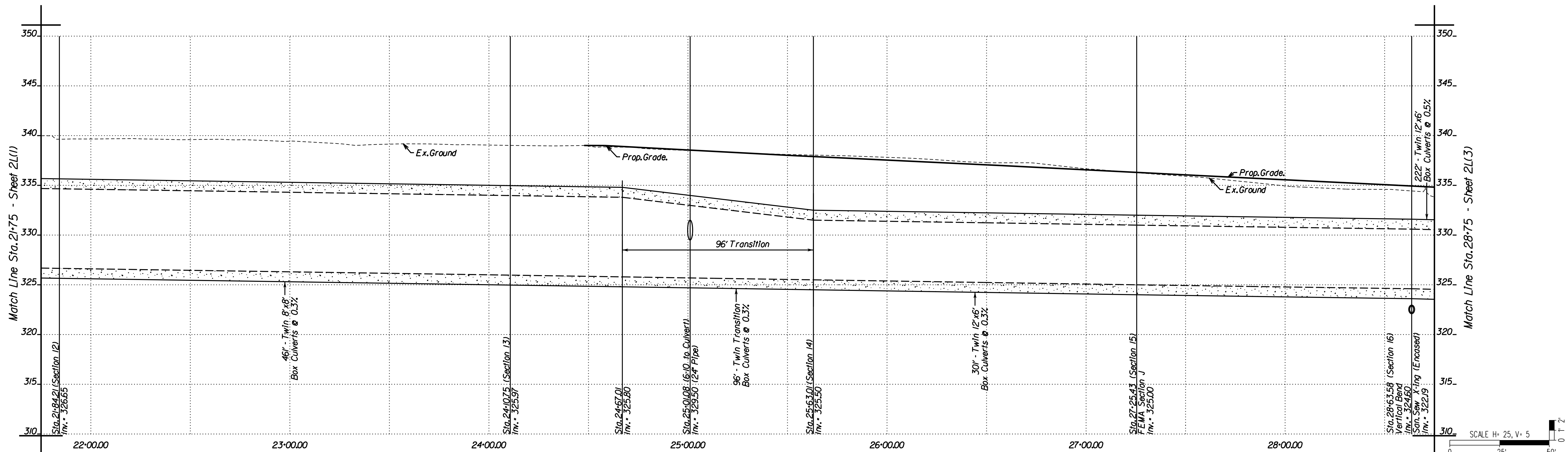
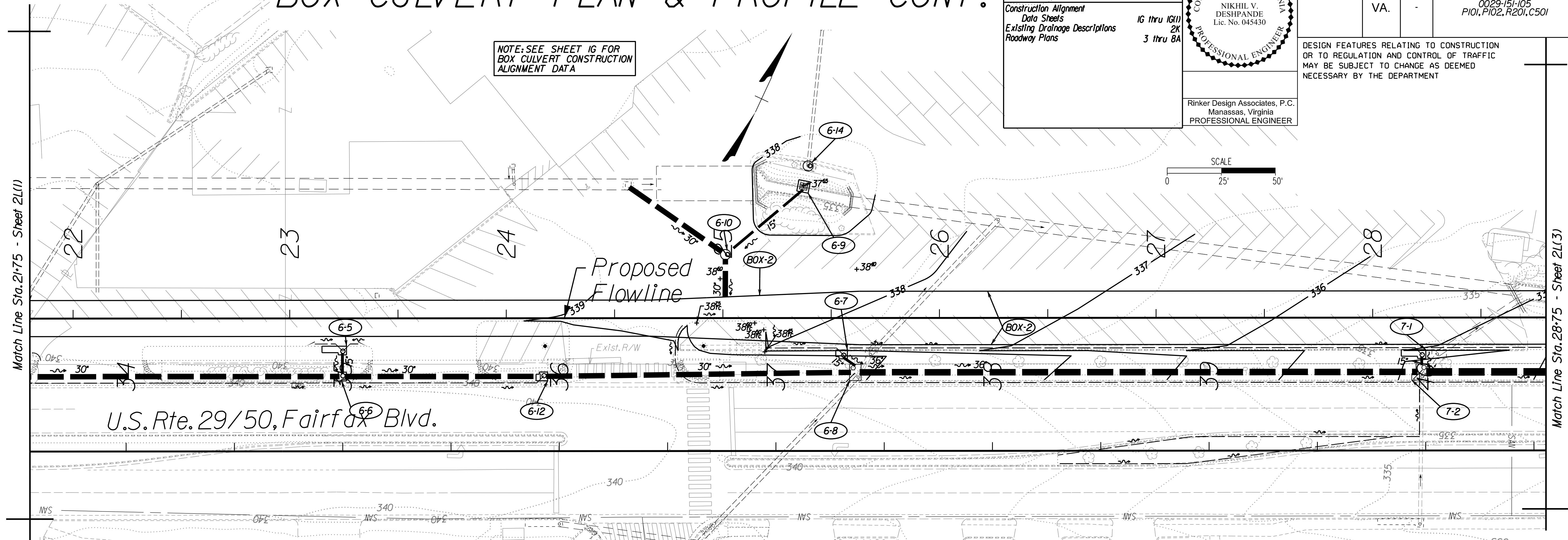
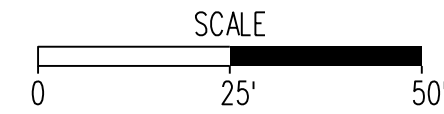


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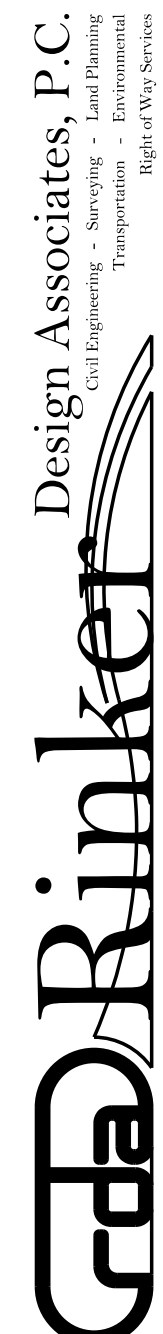
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.			0029-151-105 P101, P102, R201, C501	2L(2)

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NOTE: SEE SHEET 16 FOR BOX CULVERT CONSTRUCTION ALIGNMENT DATA

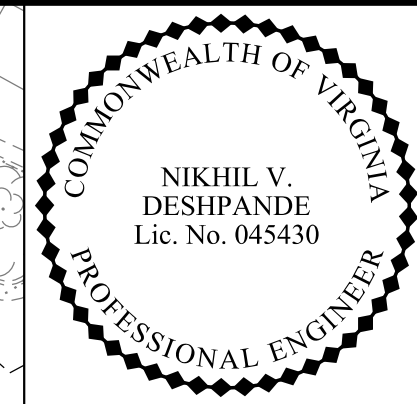


PROJECT	SHEET NO.
0029-151-105	2L(2)



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# BOX CULVERT PLAN & PROFILE CONT.



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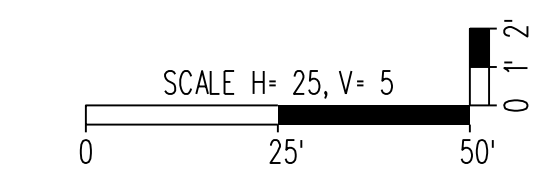
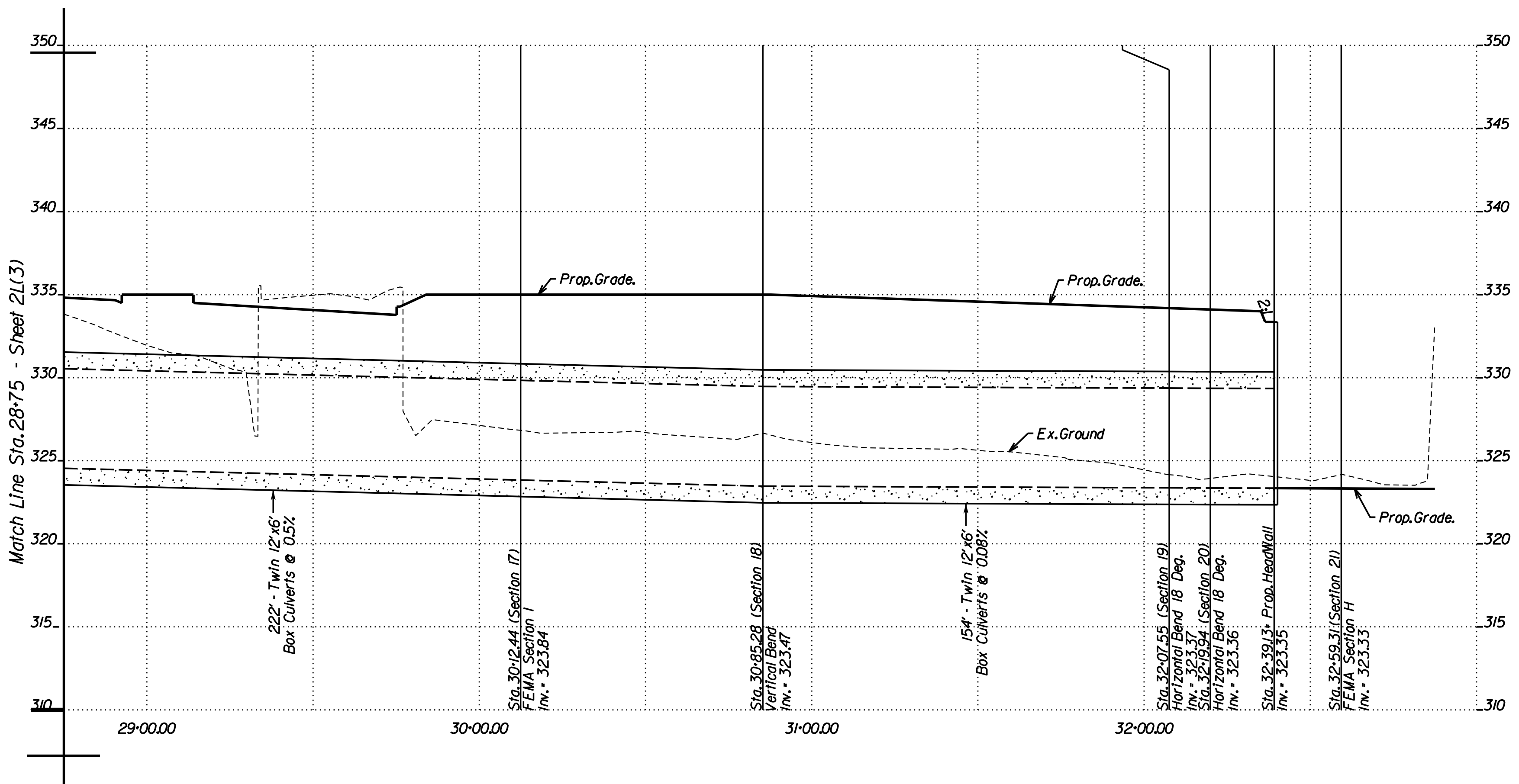
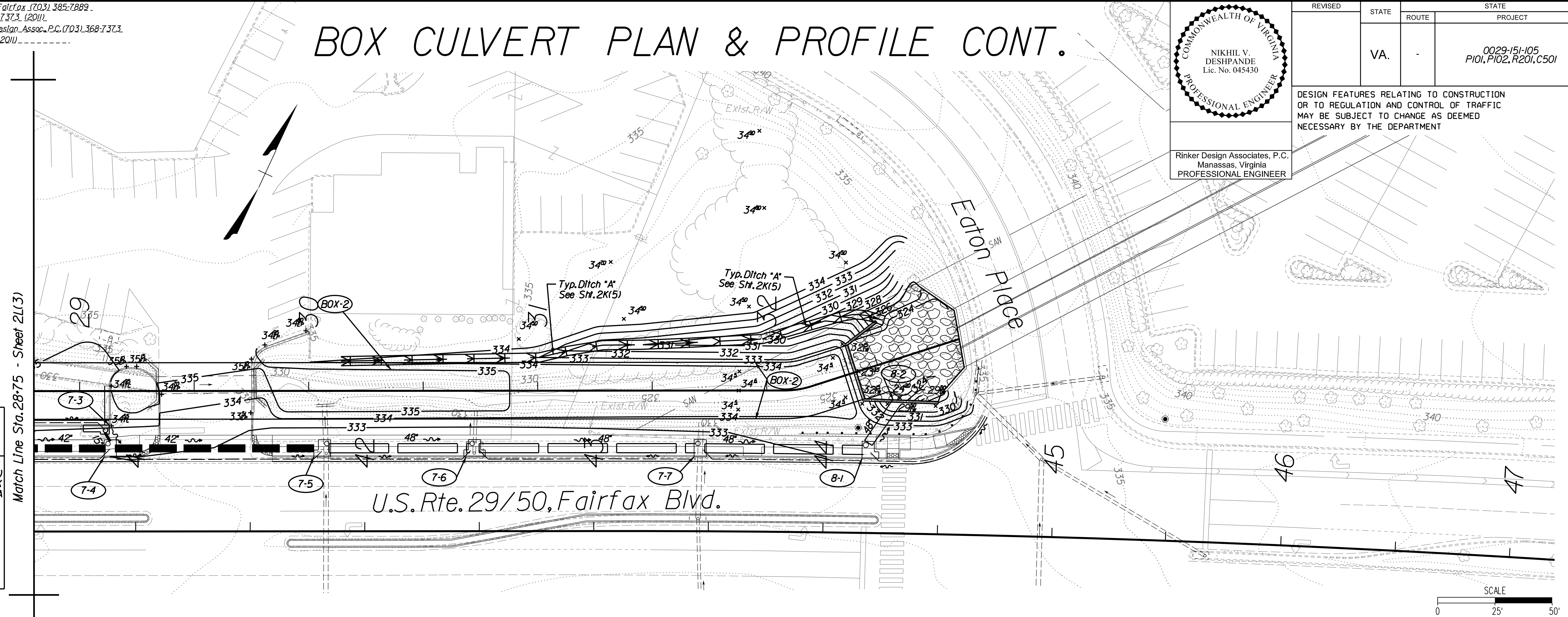
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2L(3)

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

NOTE: SEE SHEET 1G FOR BOX CULVERT CONSTRUCTION ALIGNMENT DATA

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

Construction Alignment	1G thru 1G(1)
Data Sheets	2K
Existing Drainage Descriptions	3 thru 8A
Roadway Plans	



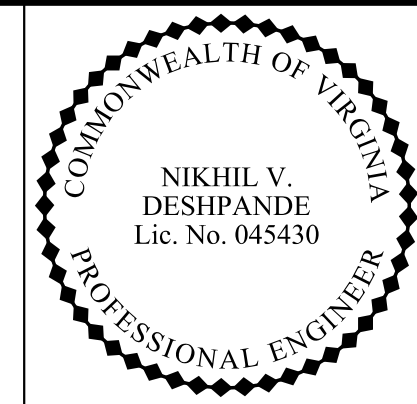
PROJECT	SHEET NO.
0029-151-105	2L(3)

Rinker Design Associates, P.C.  
 Civil Engineering, Transportation, Environmental, Right of Way Services  
 10000 Lee Highway, Suite 1000, Manassas, VA 20108  
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# Drainage Profiles



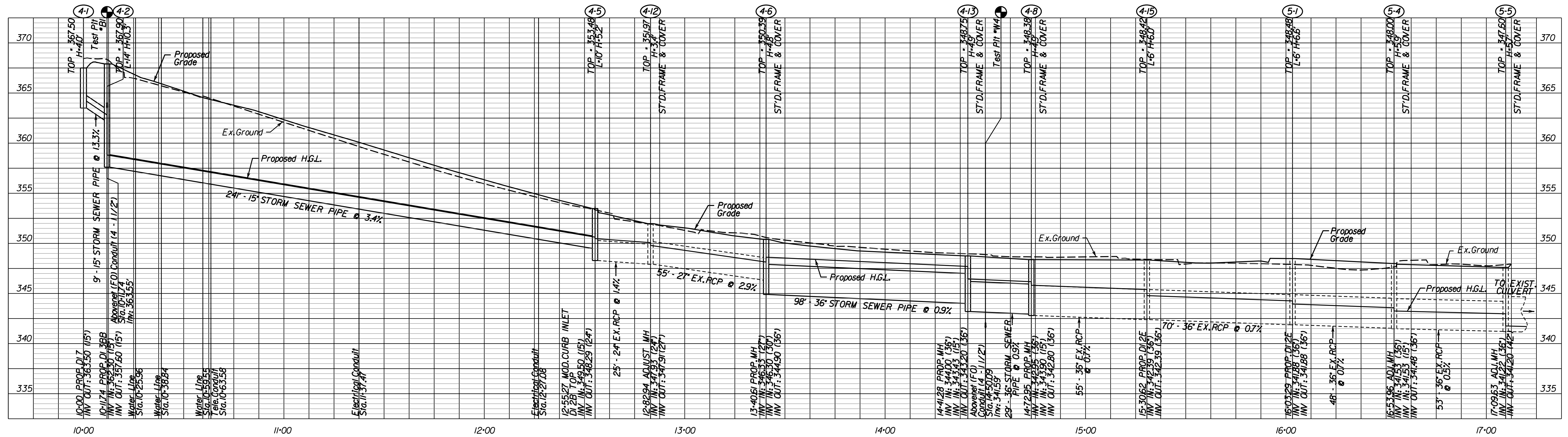
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		0029-151-105 PI01, PI02, R201, C501	2M

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

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

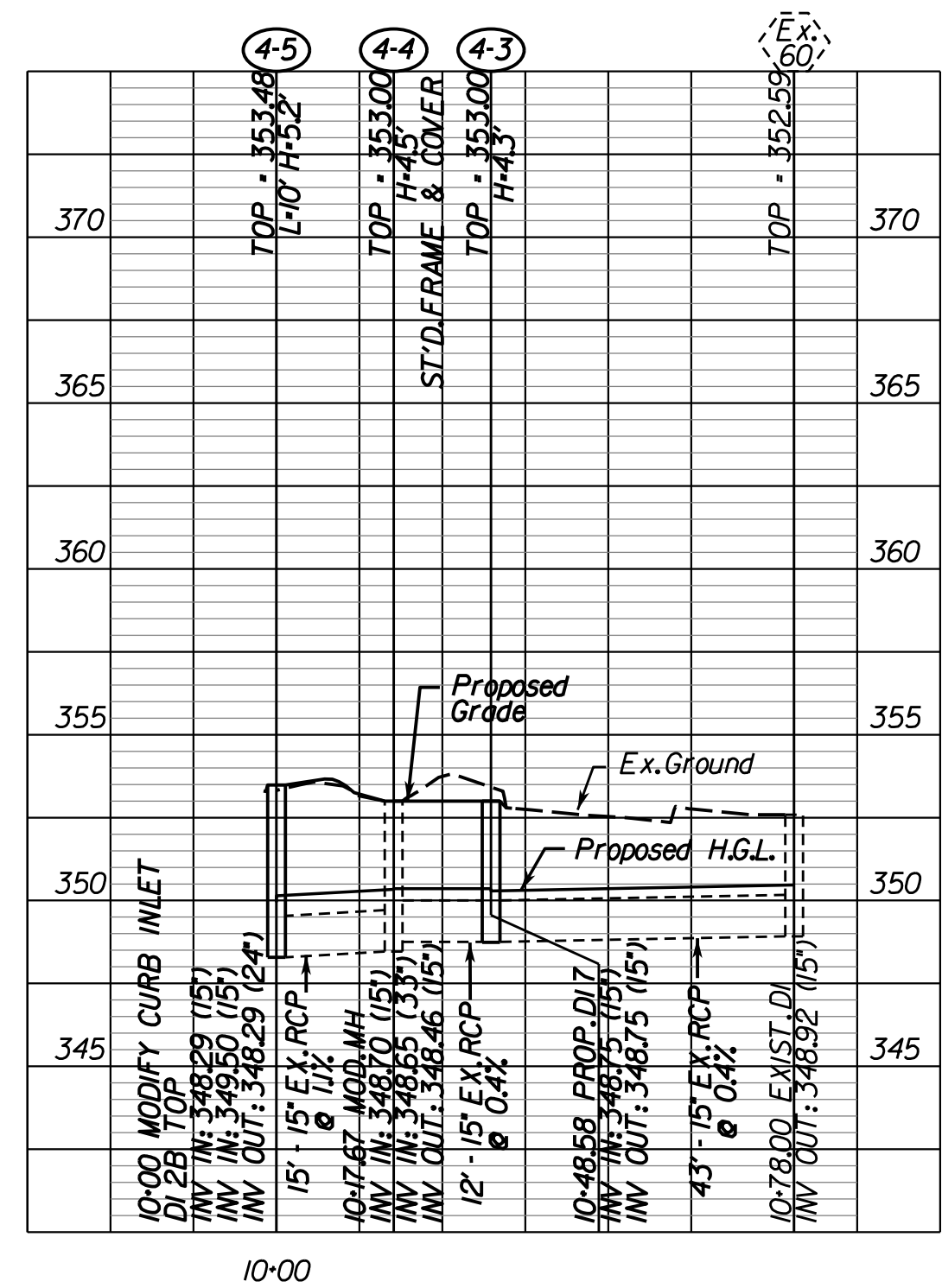
### PROP. STR. 4-1 TO PROP. STR. 5-5

SCALE: H=1"=25', V=1"=5'



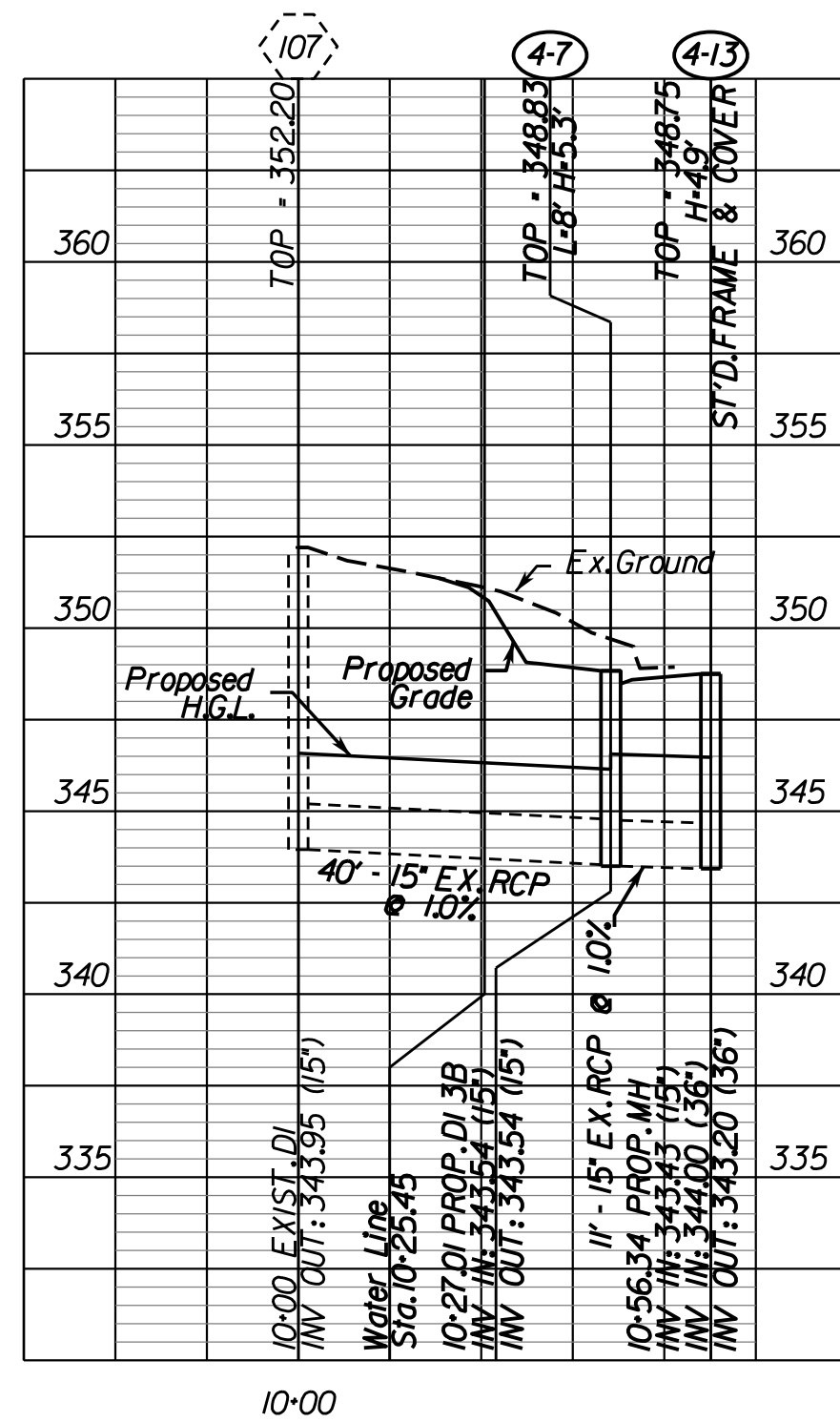
### EXIST. STR. 60 TO PROP. STR. 4-5

SCALE: H=1"=25', V=1"=5'



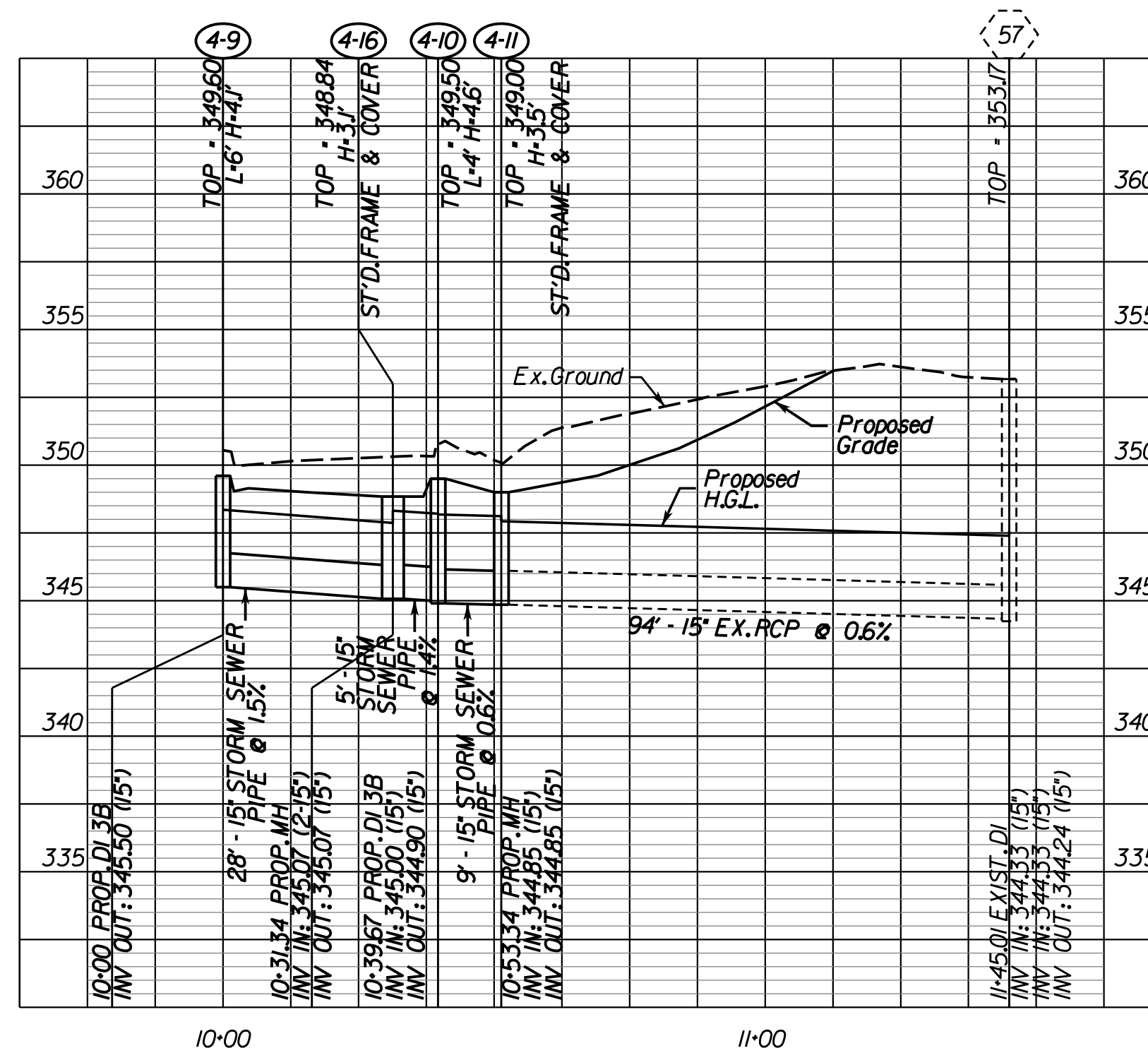
### EXIST. STR. 107 TO PROP. STR. 4-13

SCALE: H=1"=25', V=1"=5'

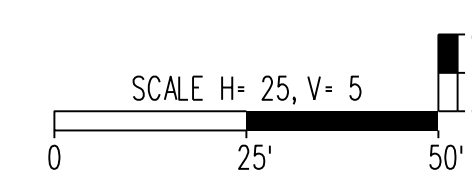


### PROP. STR. 4-9 TO EXIST. STR. 57

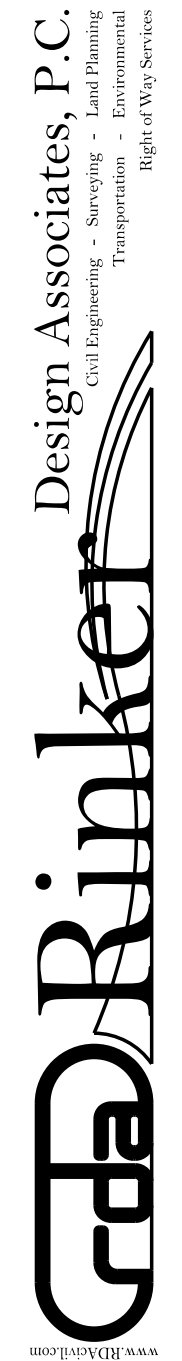
SCALE: H=1"=25', V=1"=5'



**Storm Sewer Construction Notes**  
A post installation visual/video camera inspection of storm sewer pipes and pipe culverts shall be conducted by the Contractor in accordance with the requirements of Section 302.03(d) of the VDOT 2007 Supplemental Road & Bridge Specifications. This is to ensure that the pipe joints are properly connected and sealed and that the pipe is undamaged.

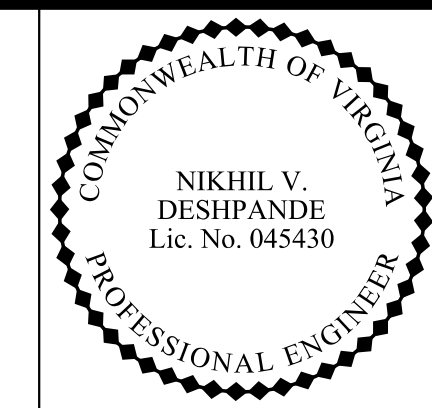


PROJECT	SHEET NO.
0029-151-105	2M



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)

# Drainage Profiles Cont.

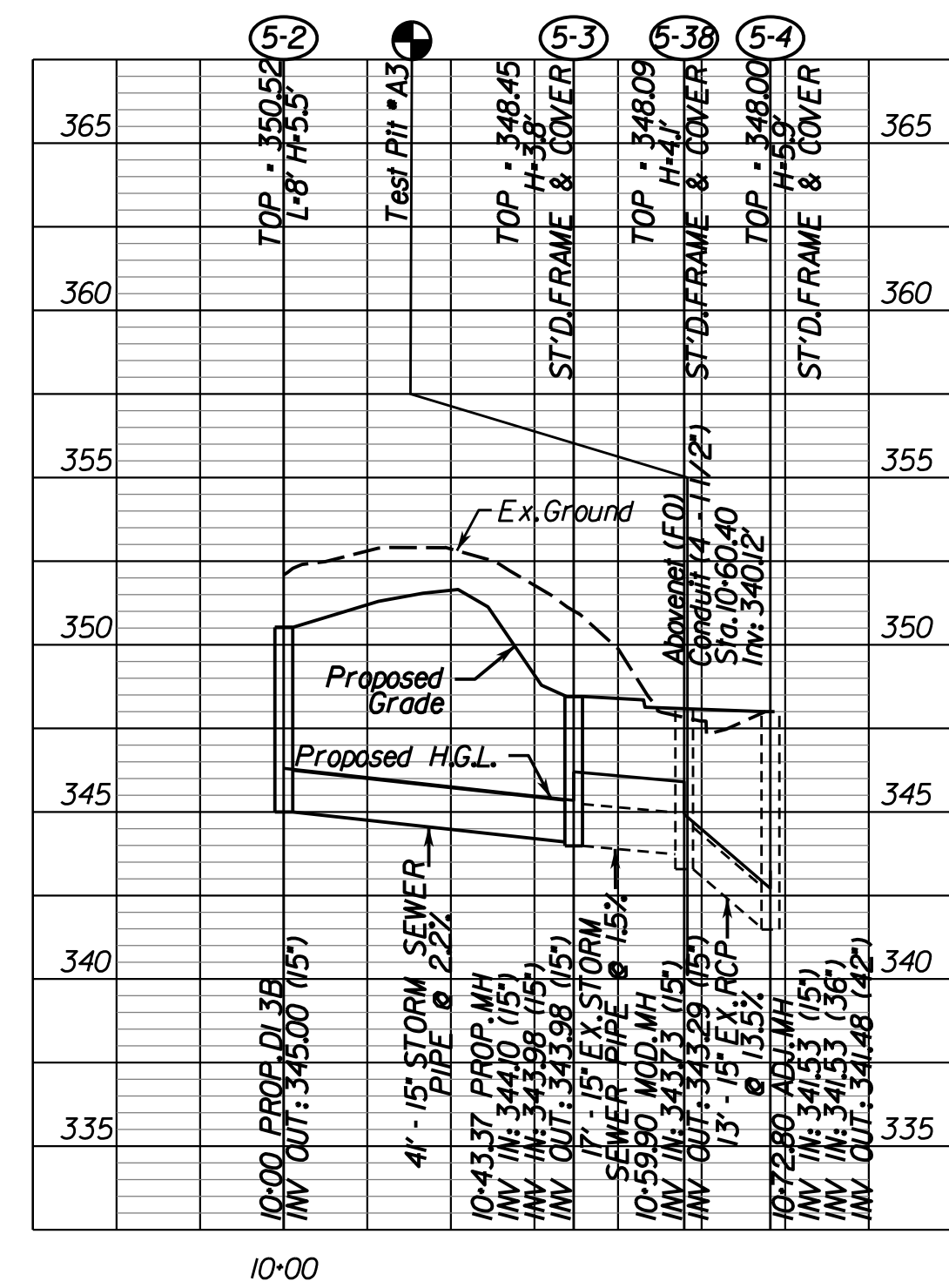


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 Manassas, Virginia  
 PROFESSIONAL ENGINEER

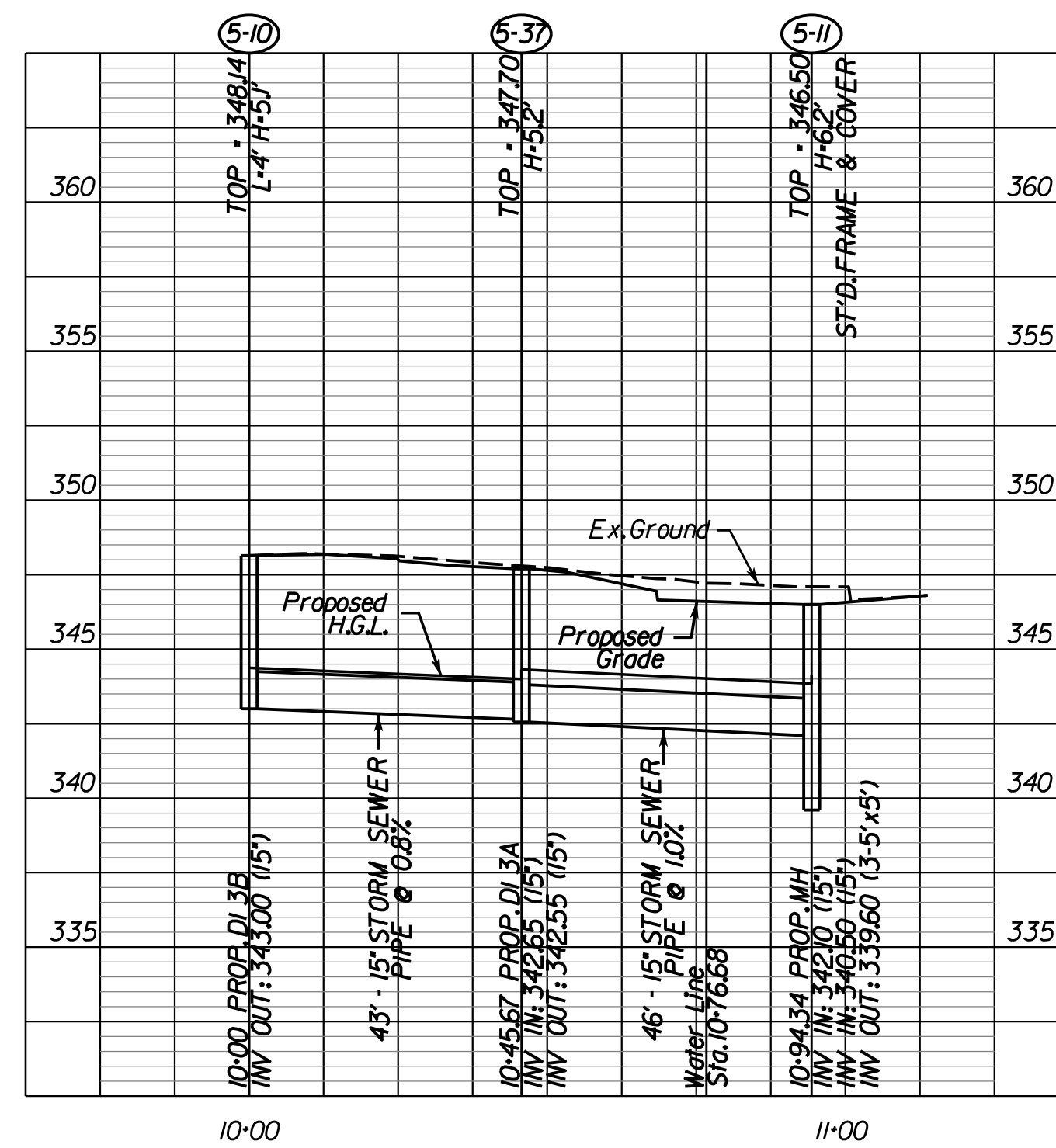
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2M(1)

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

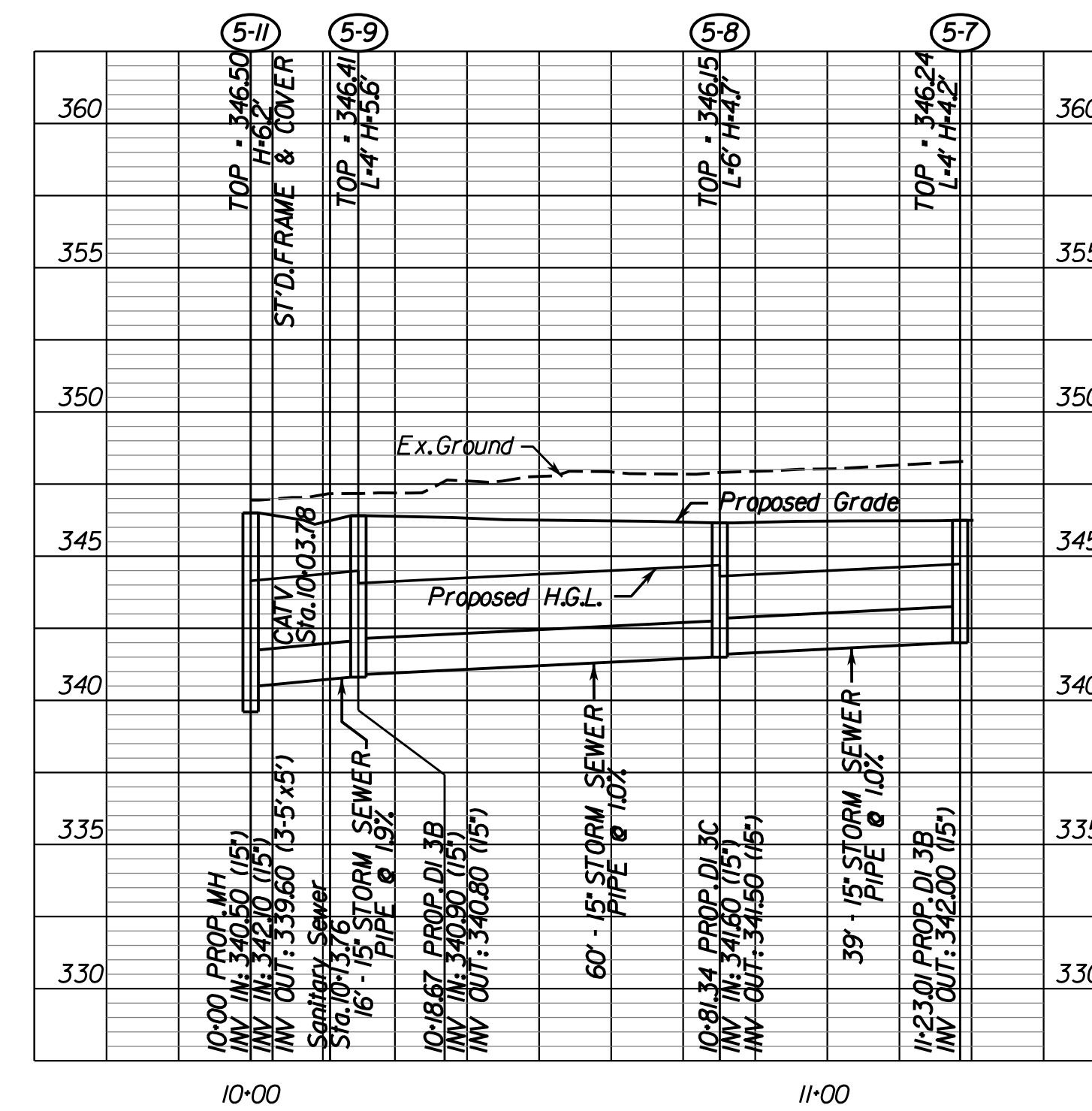
PROP. STR. 5-2 TO PROP. STR. 5-4  
 SCALE: H=1"=25', V=1"=5'



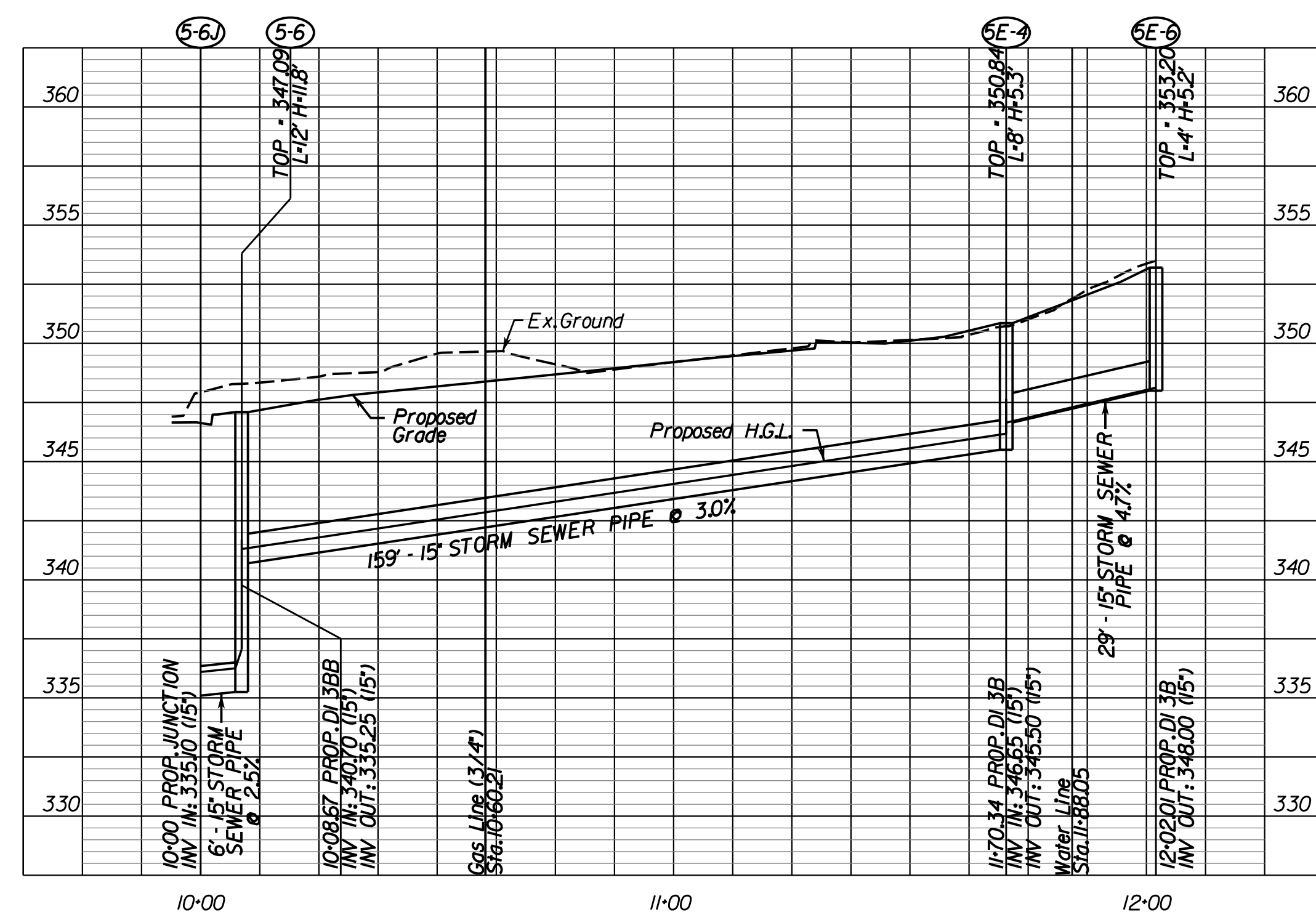
PROP. STR. 5-10 TO PROP. STR. 5-11  
 SCALE: H=1"=25', V=1"=5'



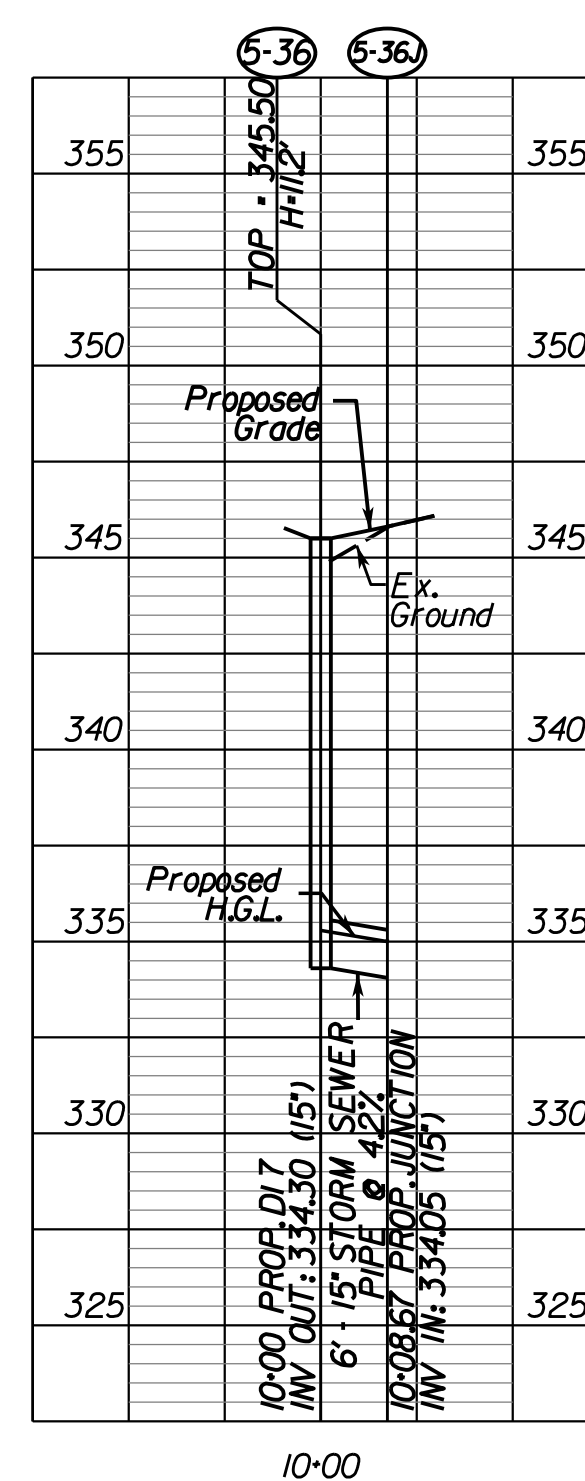
PROP. STR. 5-7 TO PROP. STR. 5-11  
 SCALE: H=1"=25', V=1"=5'



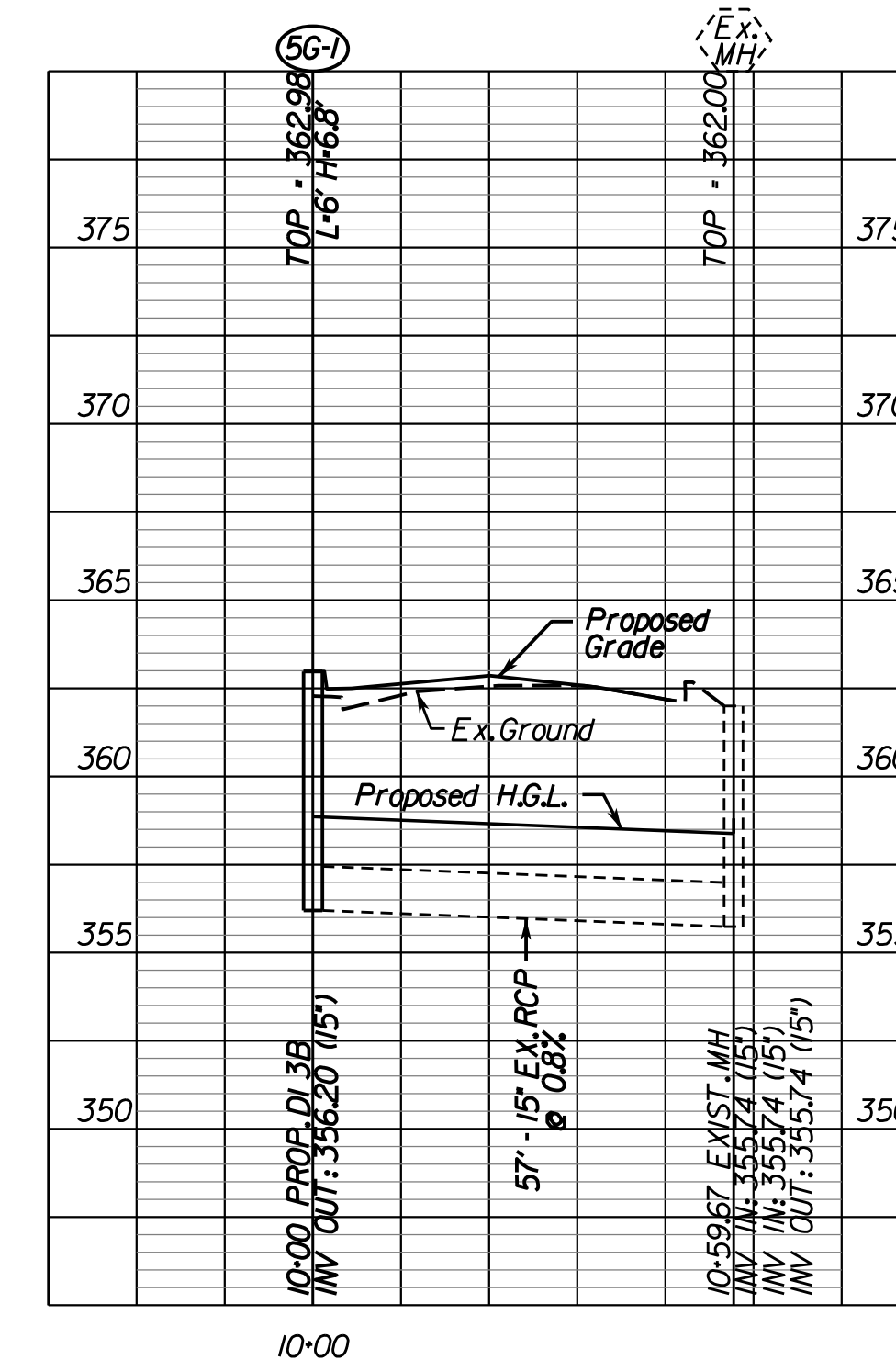
PROP. STR. 5E-6 TO PROP. CULVERT  
 SCALE: H=1"=25', V=1"=5'



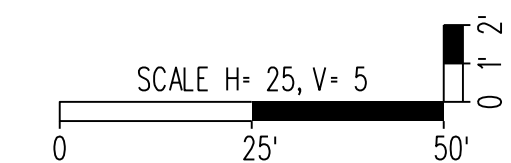
PROP. STR. 5-36 TO PROP. CULVERT  
 SCALE: H=1"=25', V=1"=5'



PROP. STR. 5G-1 TO EXIST. STR.  
 SCALE: H=1"=25', V=1"=5'



**Storm Sewer Construction Notes**  
 A post installation visual/video camera inspection of storm sewer pipes and pipe culverts shall be conducted by the Contractor in accordance with the requirements of Section 302.03(d) of the VDOT 2007 Supplemental Road & Bridge Specifications. This is to ensure that the pipe joints are properly connected and sealed and that the pipe is undamaged.



PROJECT	SHEET NO.
0029-151-105	2M(1)

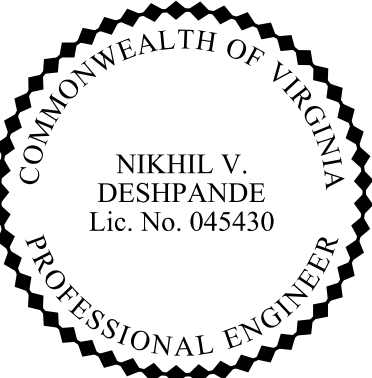


PROJECT MANAGER Wendy Block Sanford, City of Fairfax (703) 385-7889  
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373 (2011)  
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SUBSURFACE UTILITY PROVIDED BY AccuMark (2011)

Storm Sewer Construction Notes

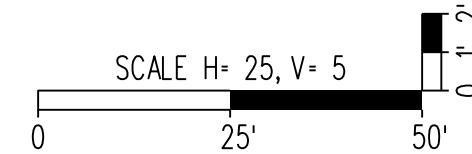
A post installation visual/video camera inspection of storm sewer pipes and pipe culverts shall be conducted by the Contractor in accordance with the requirements of Section 302.03(d) of the VDOT 2007 Supplemental Road & Bridge Specifications. This is to ensure that the pipe joints are properly connected and sealed and that the pipe is undamaged.

# Drainage Profiles Cont.

	REVISED	STATE	ROUTE	PROJECT	SHEET NO.
		VA.		0029-151-105 PI01, PI02, R201, C501	2M(2)

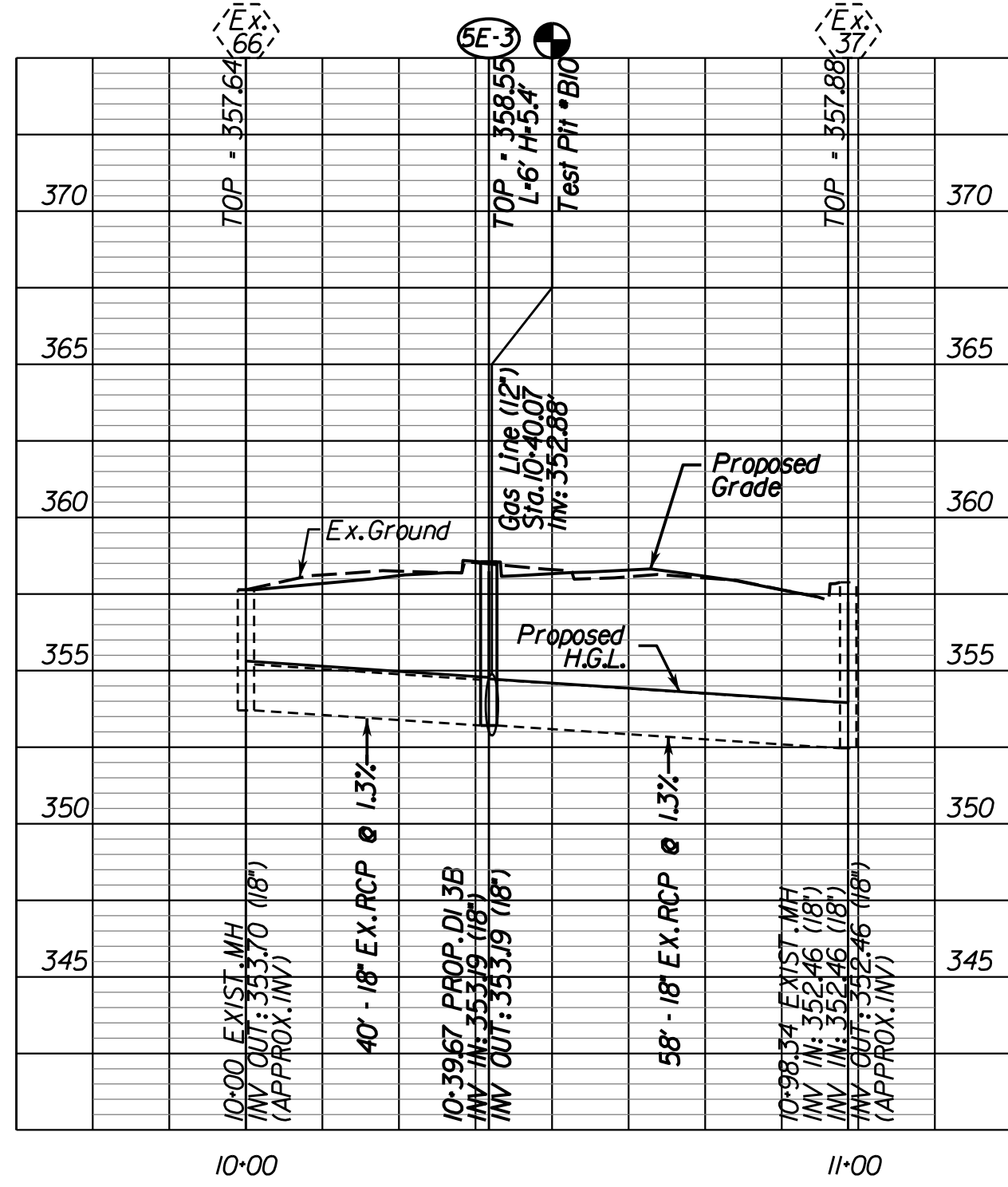
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SCALE: H=25', V=5'



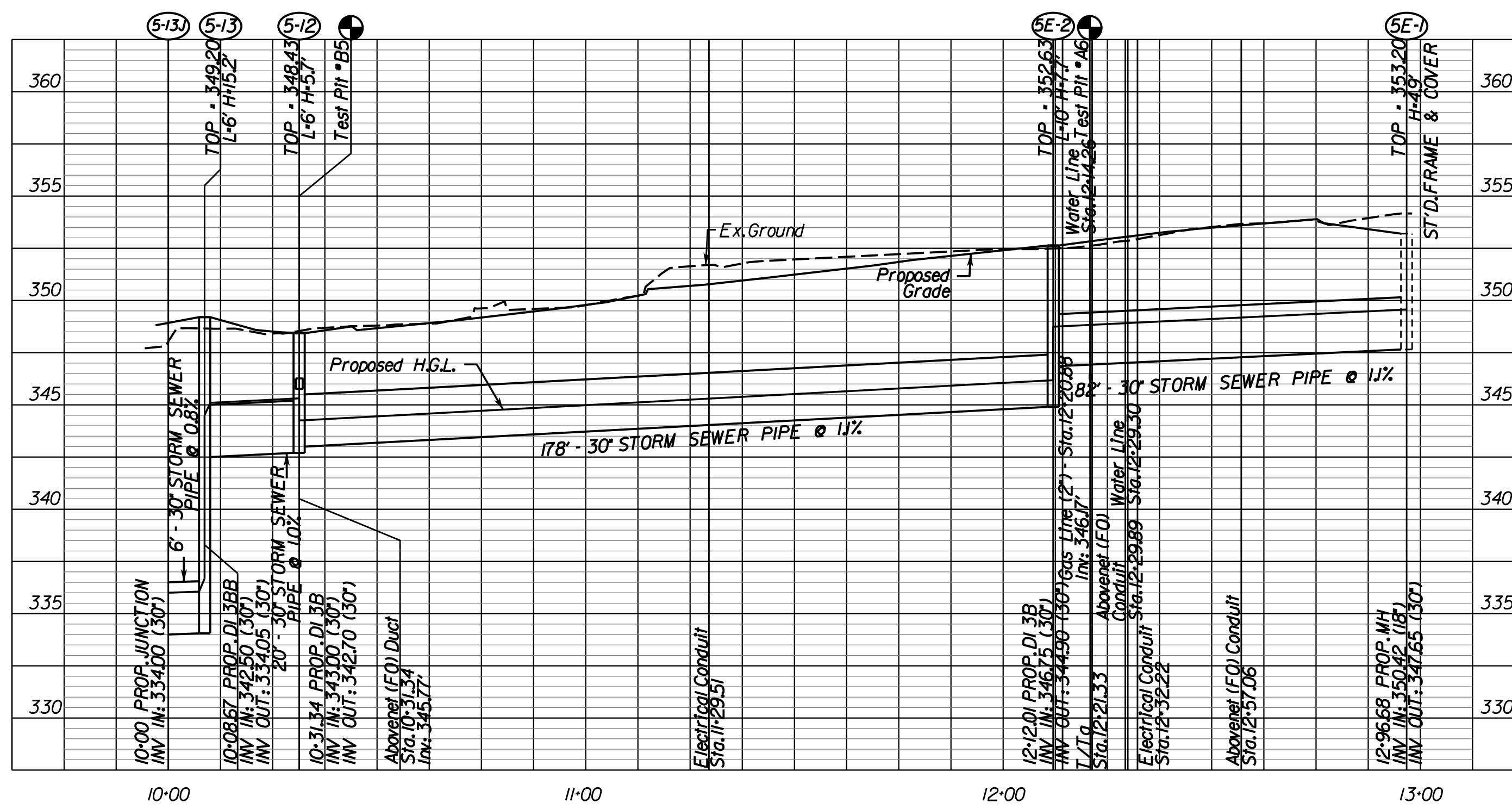
### EXIST. STR. 66 TO EXIST. STR. 37

SCALE: H=1"=25', V=1"=5'



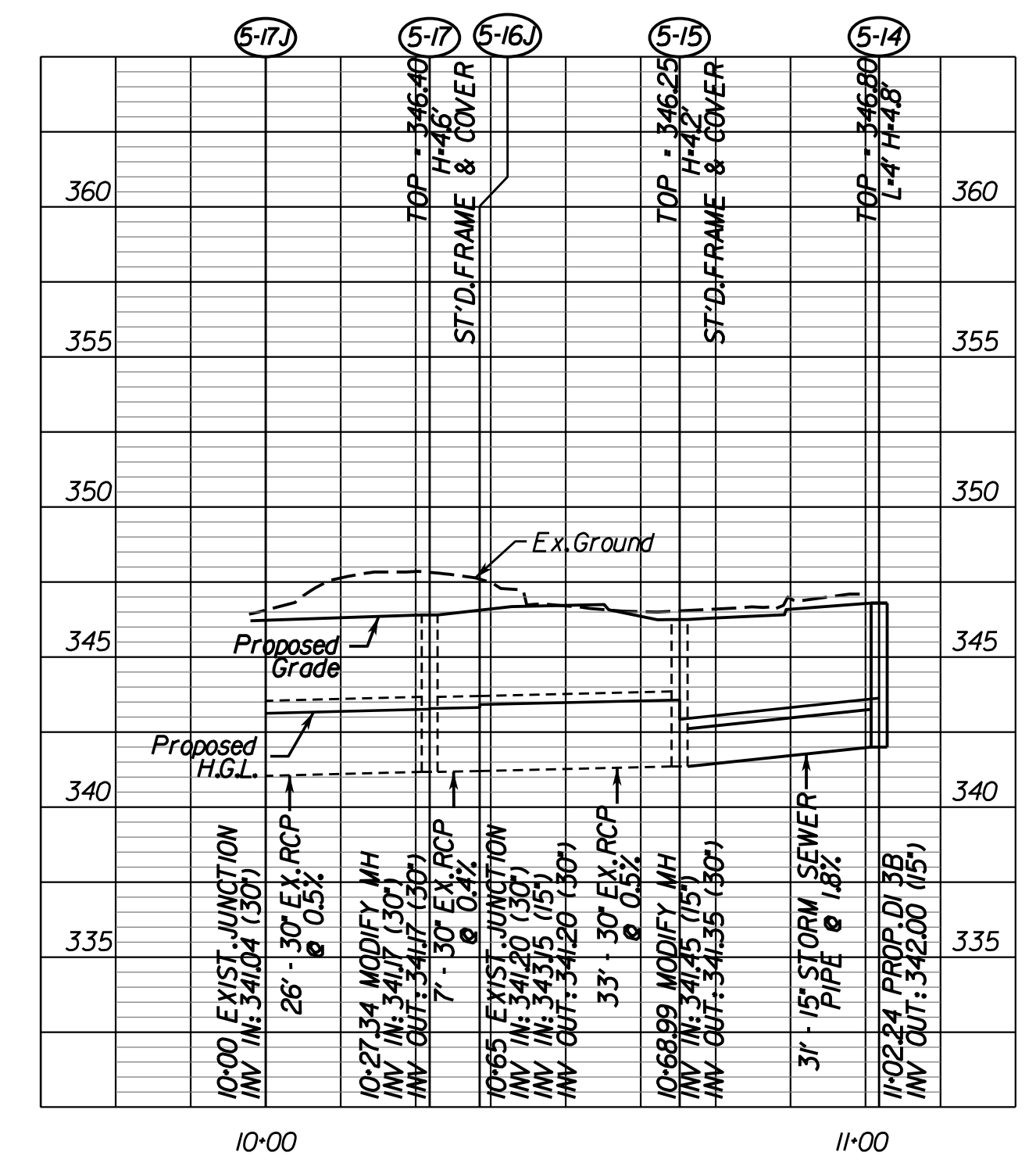
### PROP. STR. 5E-1 TO PROP. CULVERT

SCALE: H=1"=25', V=1"=5'



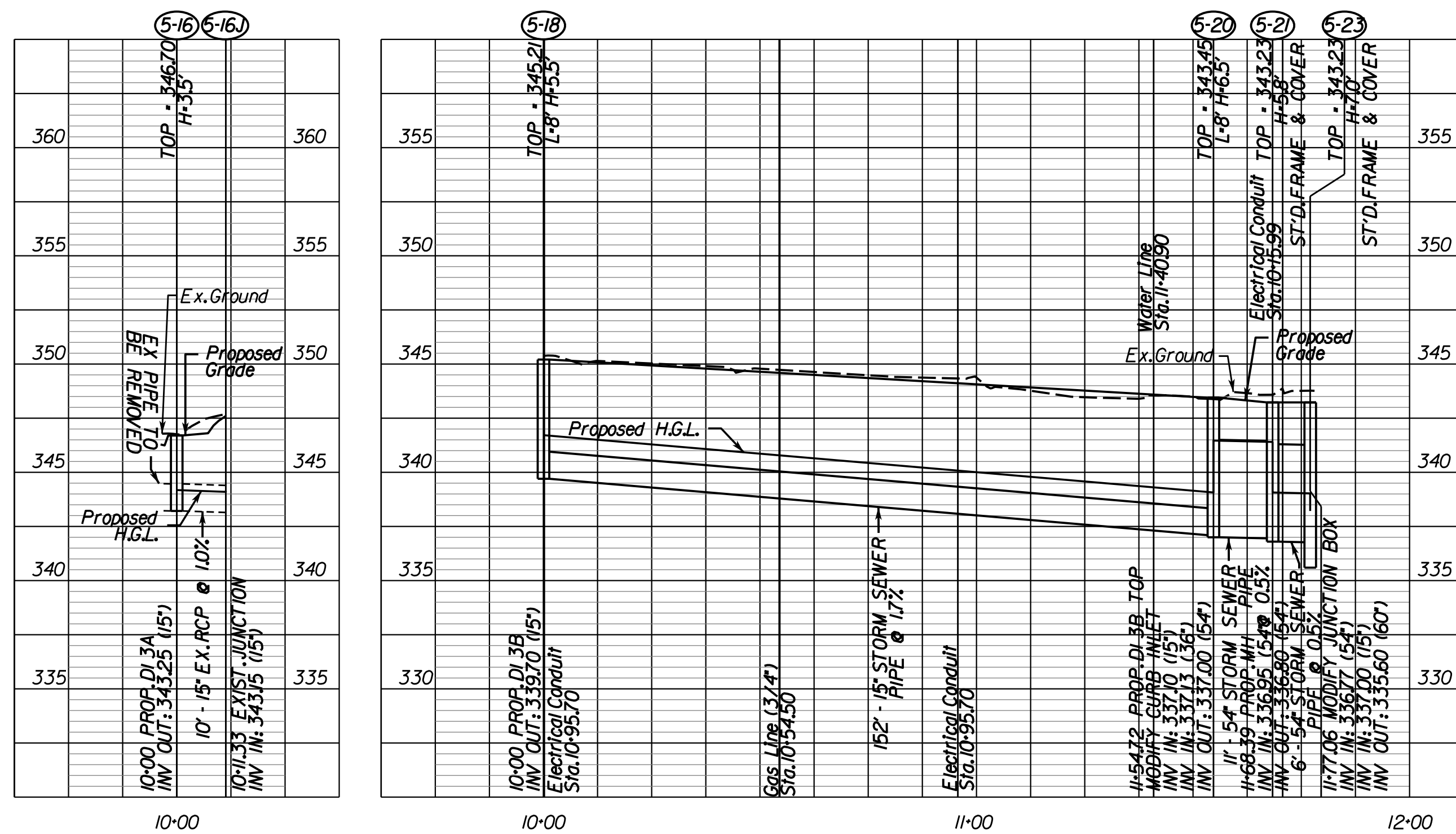
### PROP. STR. 5-14 TO EXIST. CULVERT

SCALE: H=1"=25', V=1"=5'



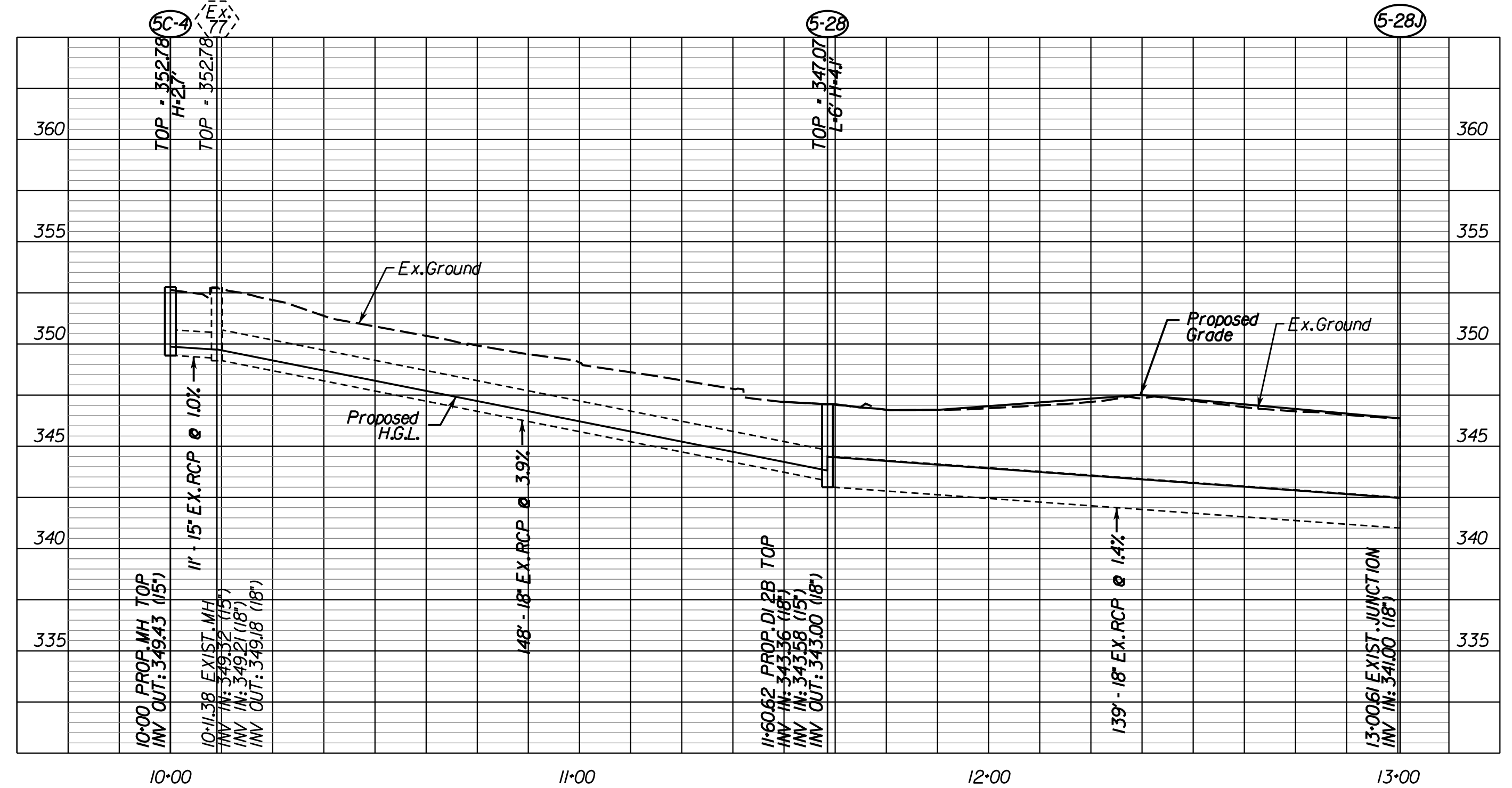
### PROP. STR. 5-16 TO EXIST. 5-16 JUNCTION PROP. STR. 5-18 TO PROP. STR. 5-23

SCALE: H=1"=25', V=1"=5'



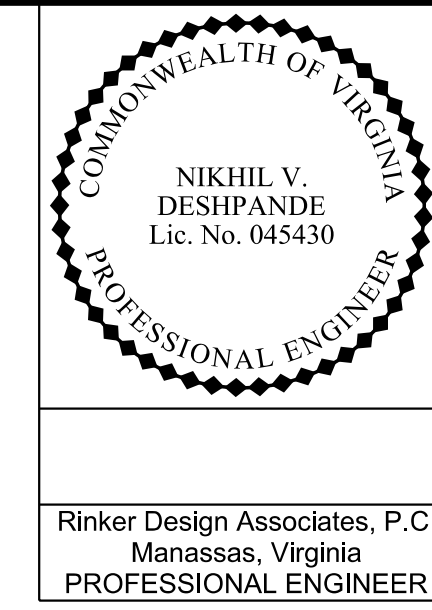
### PROP. STR. 5C-4 TO EXIST. 5-28 JUNCTION

SCALE: H=1"=25', V=1"=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)

# Drainage Profiles Cont.

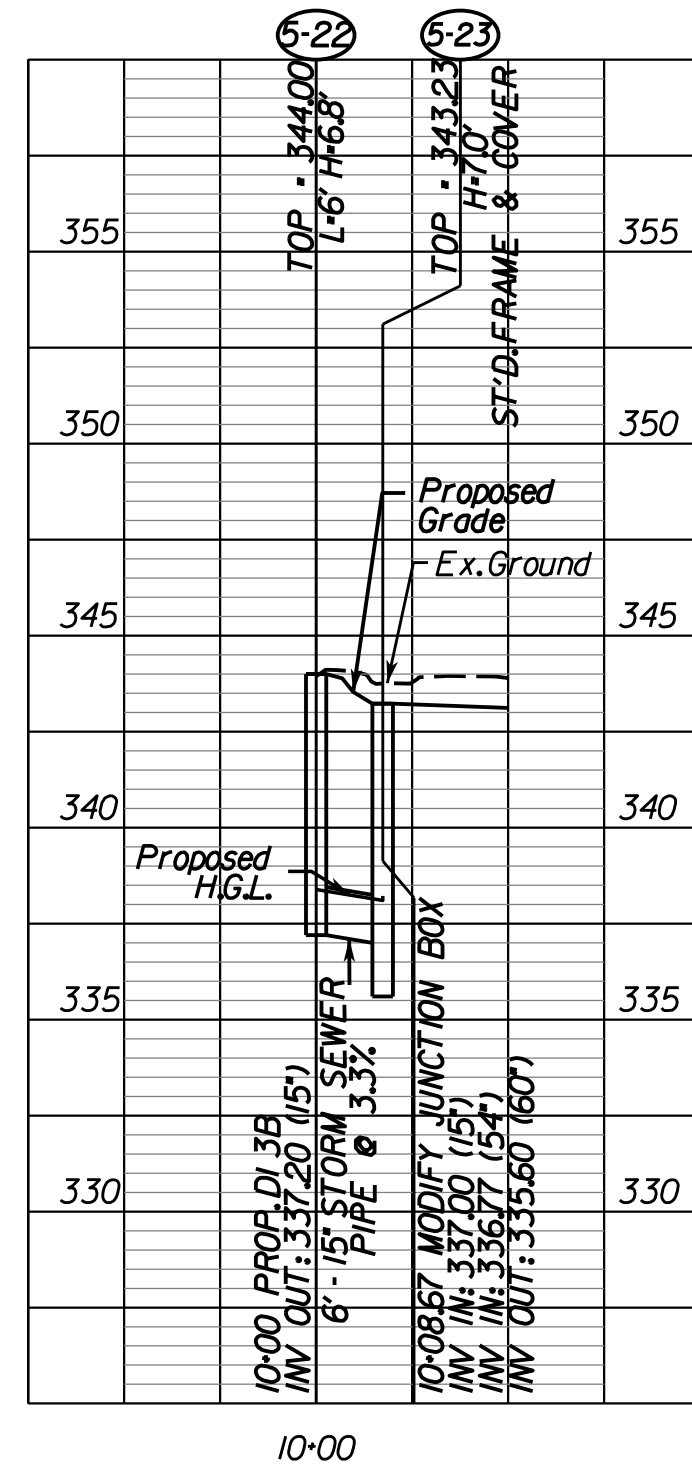


REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2M(3)

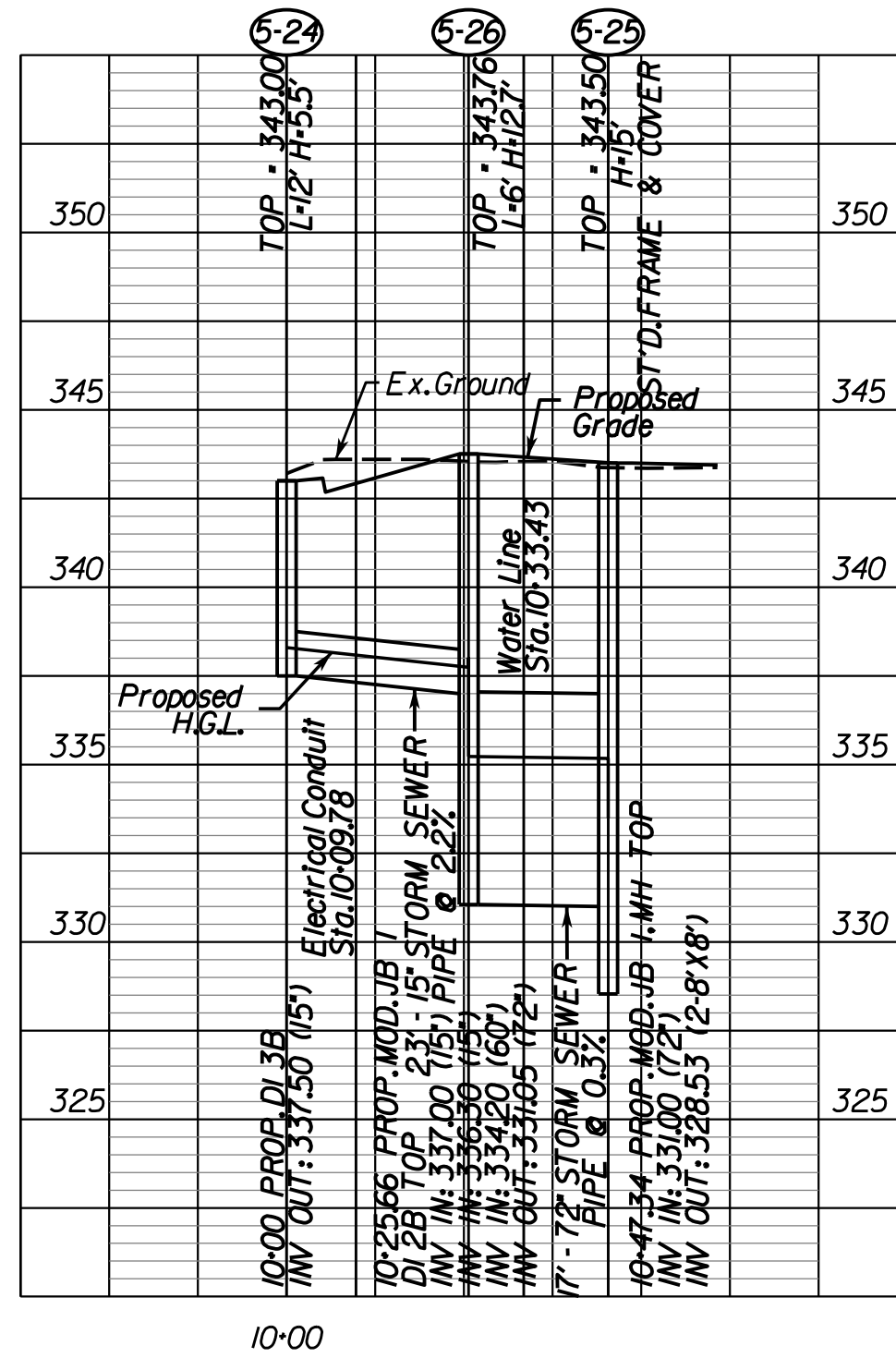
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

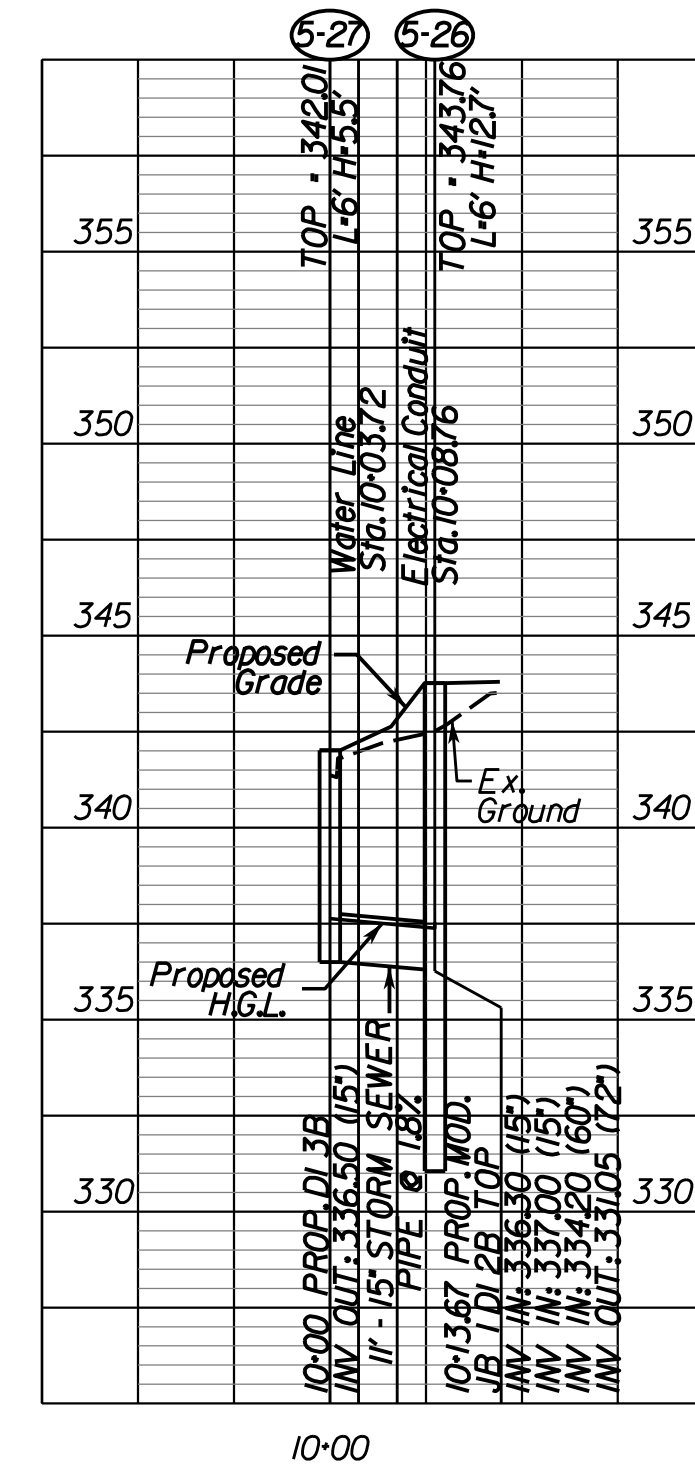
PROP. STR. 5-22 TO PROP. STR. 5-23  
 SCALE: H=1"=25', V=1"=5'



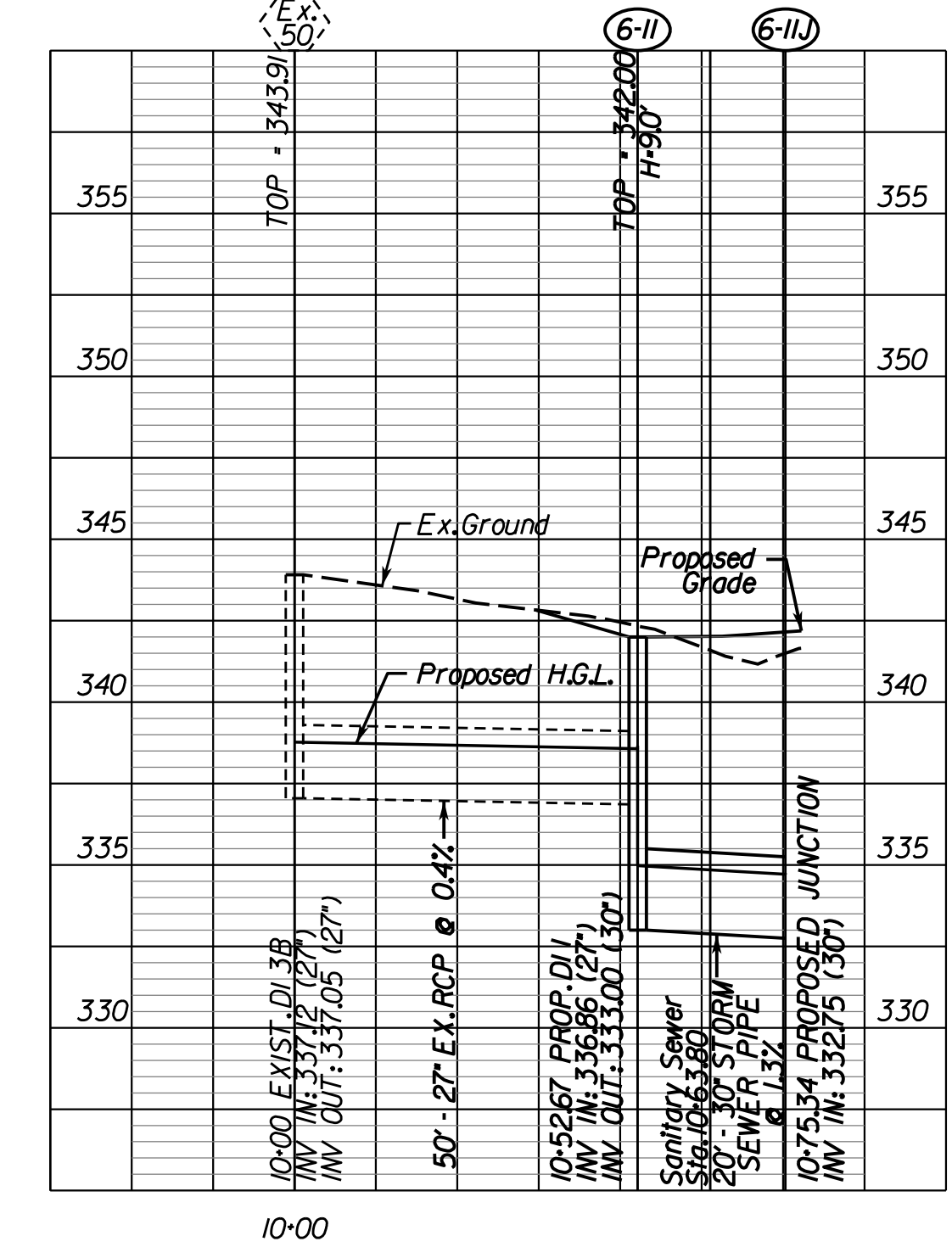
PROP. STR. 5-24 TO PROP. STR. 5-25  
 SCALE: H=1"=25', V=1"=5'



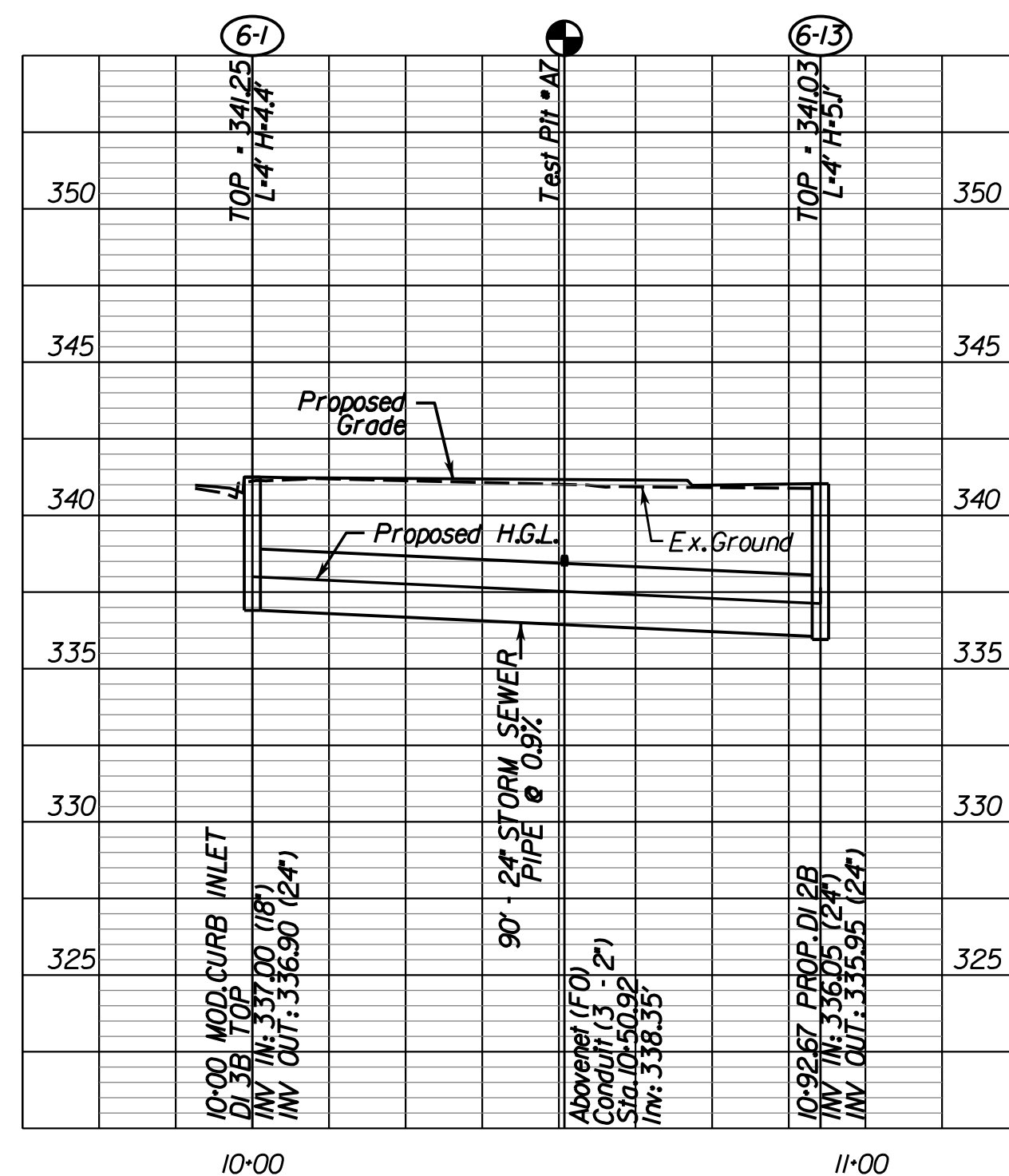
PROP. STR. 5-27 TO PROP. STR. 5-26  
 SCALE: H=1"=25', V=1"=5'



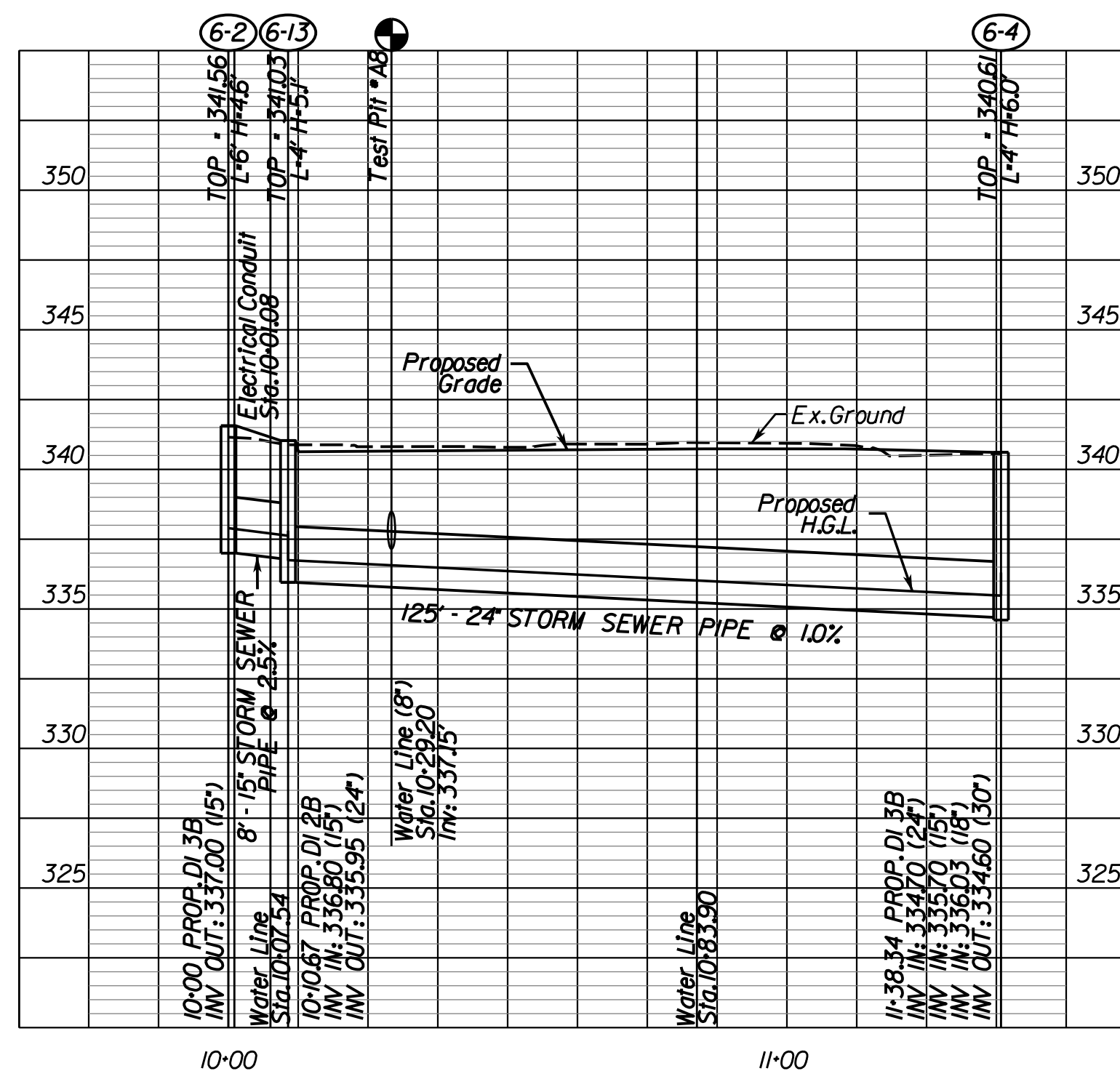
EXIST. STR. 50 TO PROP. CULVERT  
 SCALE: H=1"=25', V=1"=5'



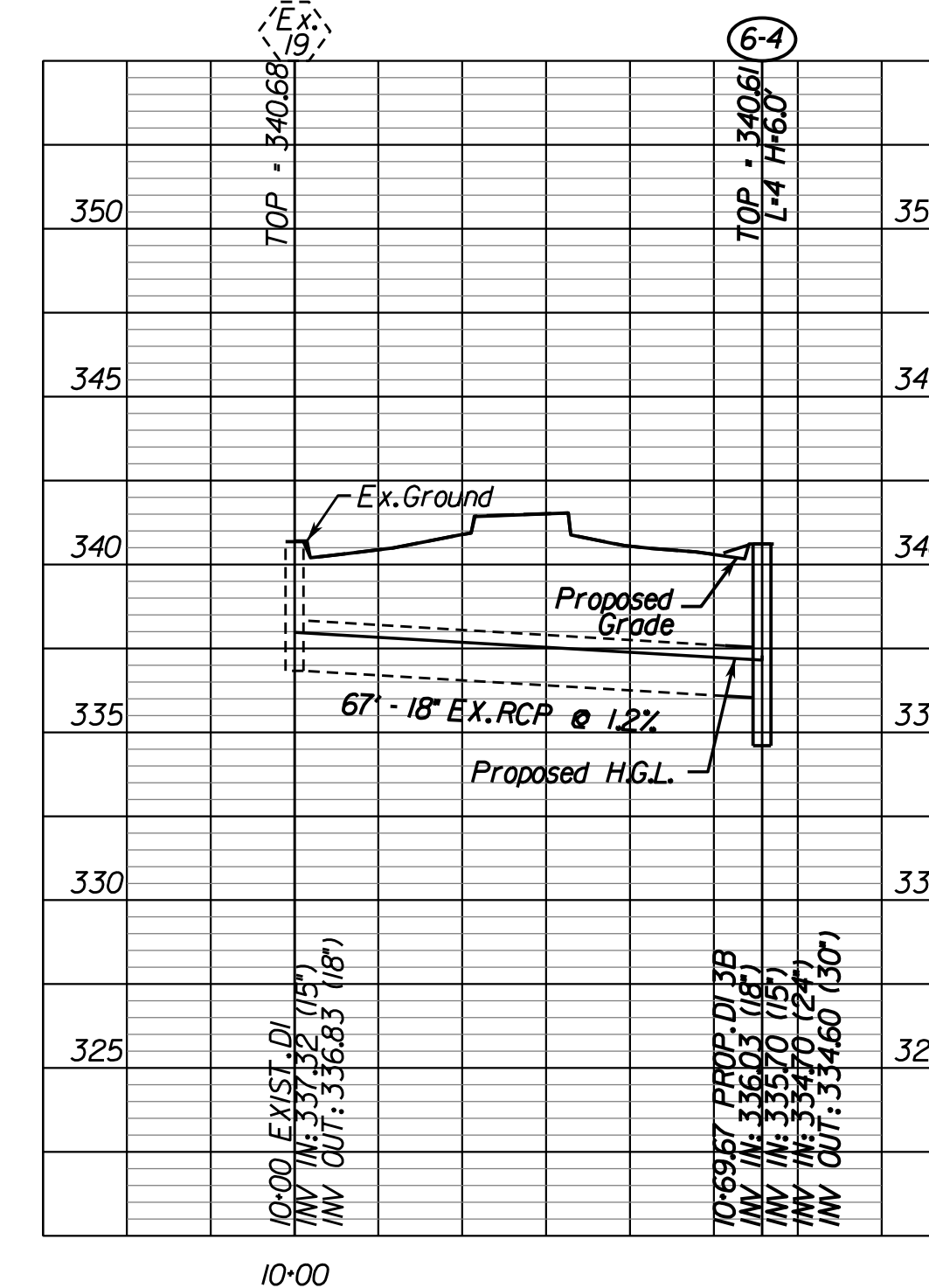
PROP. STR. 6-1 TO PROP. STR. 6-13  
 SCALE: H=1"=25', V=1"=5'



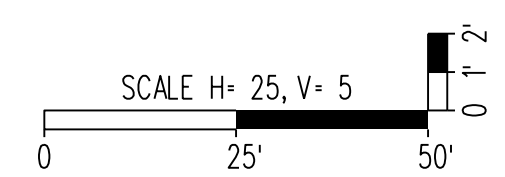
PROP. STR. 6-2 TO PROP. STR. 6-4  
 SCALE: H=1"=25', V=1"=5'



EXIST. STR. 19 TO PROP. STR. 6-4  
 SCALE: H=1"=25', V=1"=5'



**Storm Sewer Construction Notes**  
 A post installation visual/video camera inspection of storm sewer pipes and pipe culverts shall be conducted by the Contractor in accordance with the requirements of Section 302.03(d) of the VDOT 2007 Supplemental Road & Bridge Specifications. This is to ensure that the pipe joints are properly connected and sealed and that the pipe is undamaged.



PROJECT	SHEET NO.
0029-151-105	2M(3)

Rinker Design Associates, P.C.  
 10000  
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 Fax: (703) 368-7374  
 www.rinkerdesign.com



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)

# Drainage Profiles Cont.

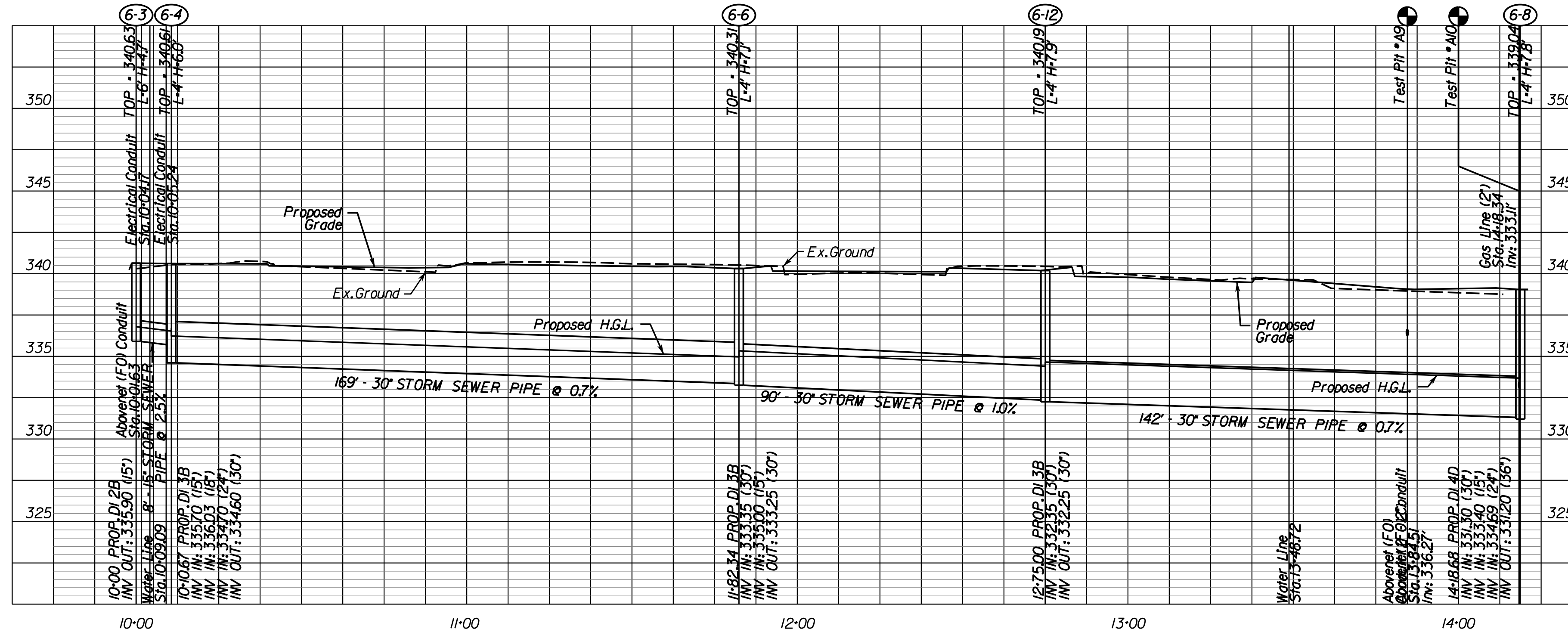
COMMONWEALTH OF VIRGINIA  
 NIKHIL V. DESHPANDE  
 Lic. No. 045430  
 PROFESSIONAL ENGINEER

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

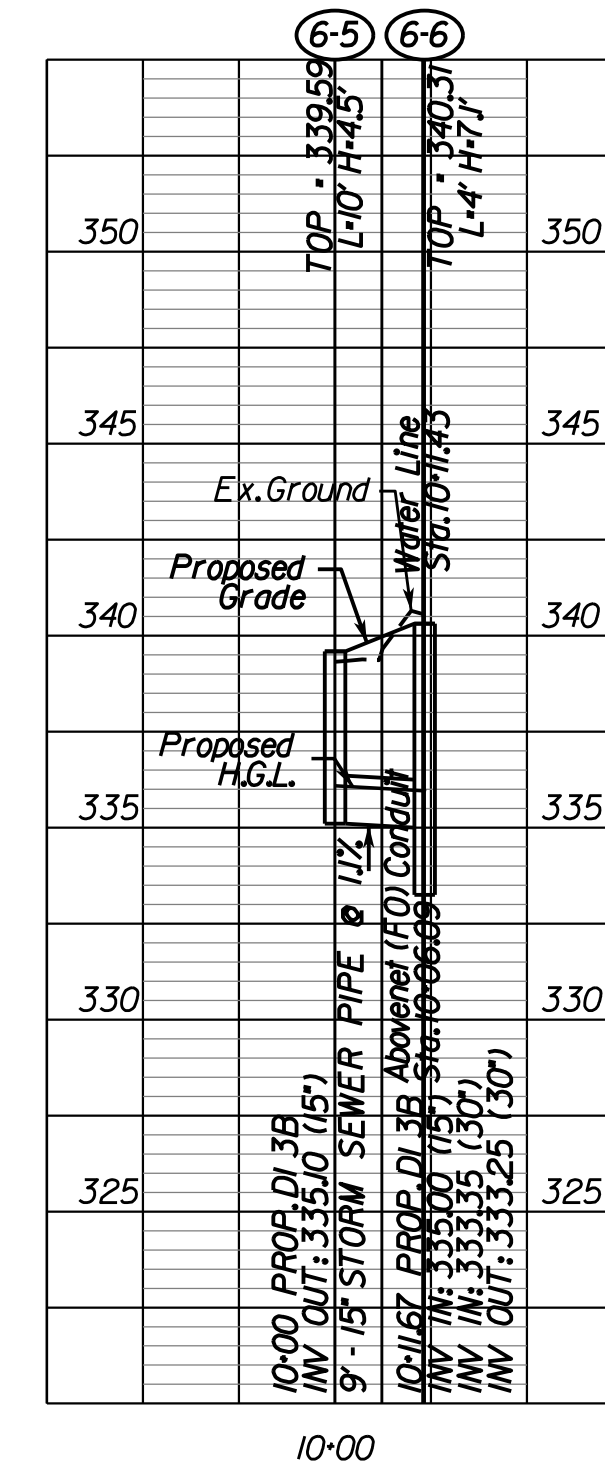
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2M(4)

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

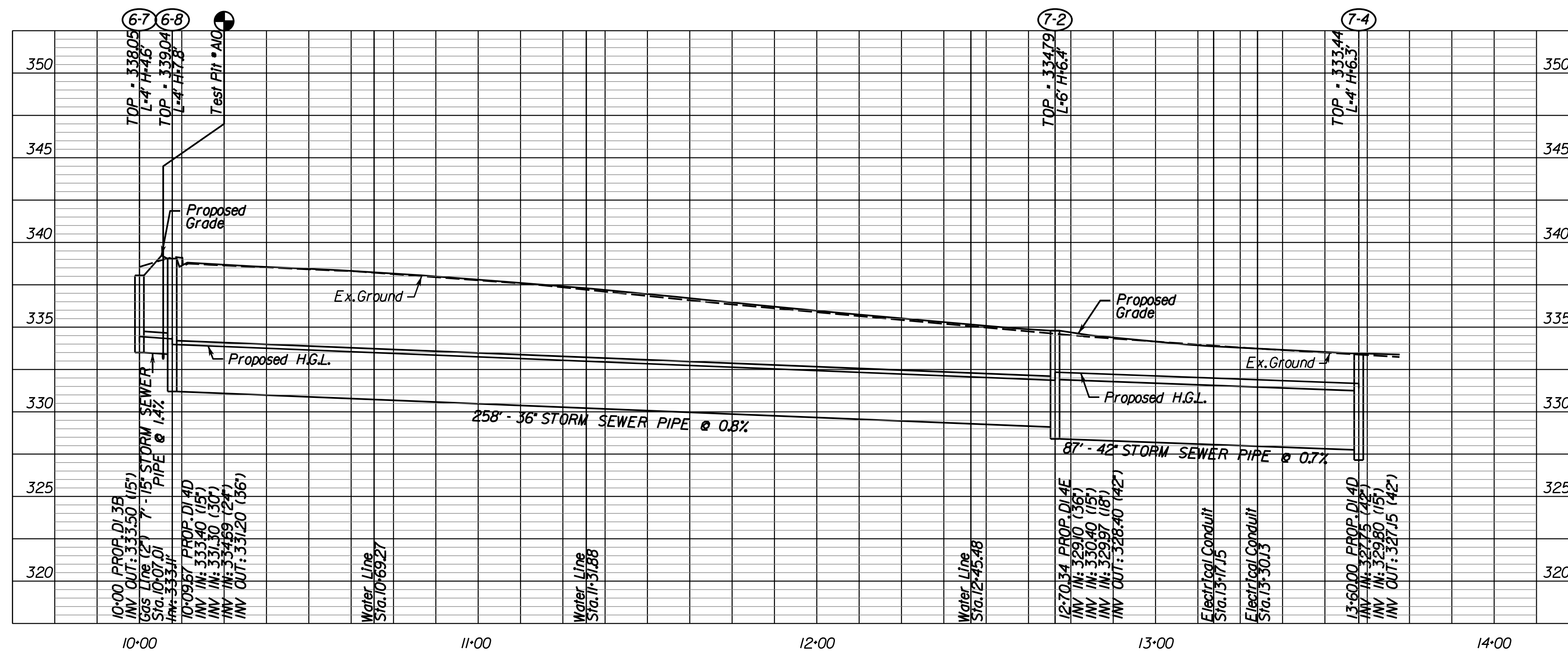
PROP. STR. 6-3 TO PROP. STR. 6-8  
 SCALE: H=1":25', V=1":5'



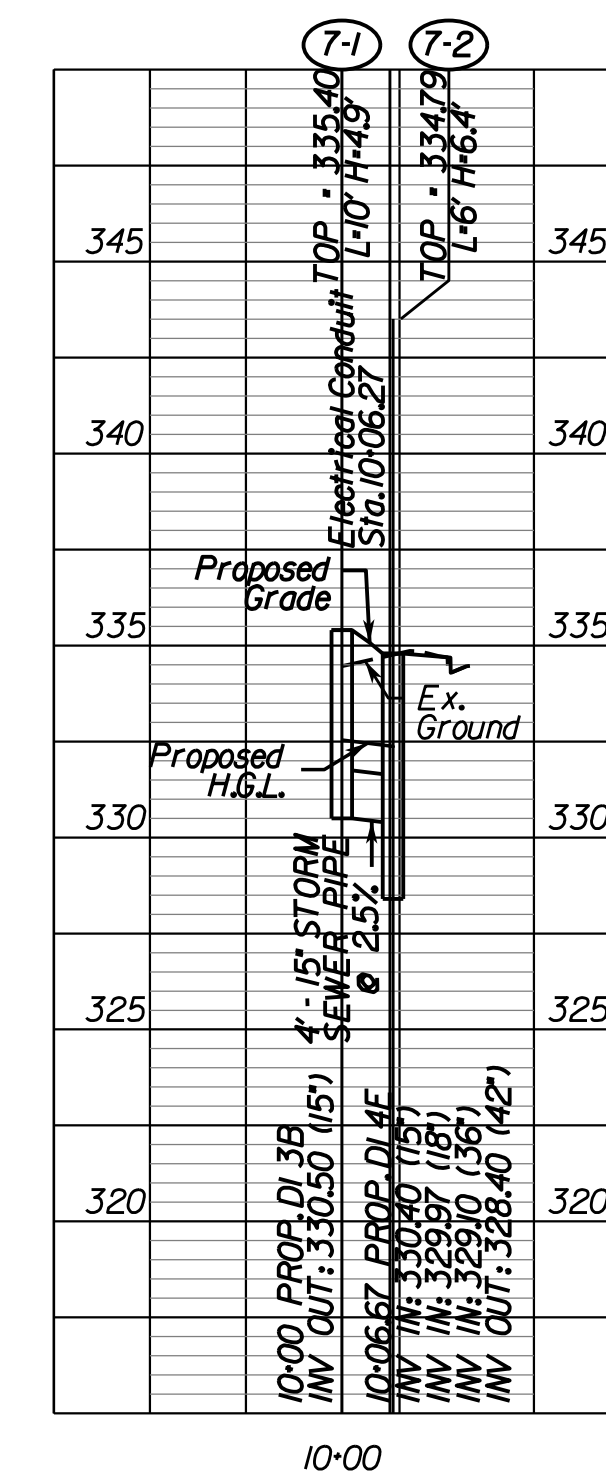
PROP. STR. 6-5 TO PROP. STR. 6-6  
 SCALE: H=1":25', V=1":5'



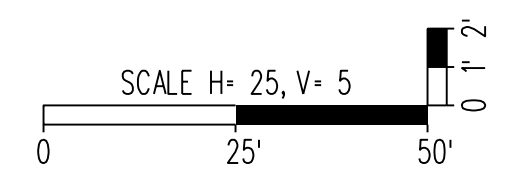
PROP. STR. 6-7 TO PROP. STR. 7-4  
 SCALE: H=1":25', V=1":5'



PROP. STR. 7-1 TO PROP. STR. 7-2  
 SCALE: H=1":25', V=1":5'



**Storm Sewer Construction Notes**  
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PROJECT	SHEET NO.
0029-151-105	2M(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)

# Drainage Profiles Cont.

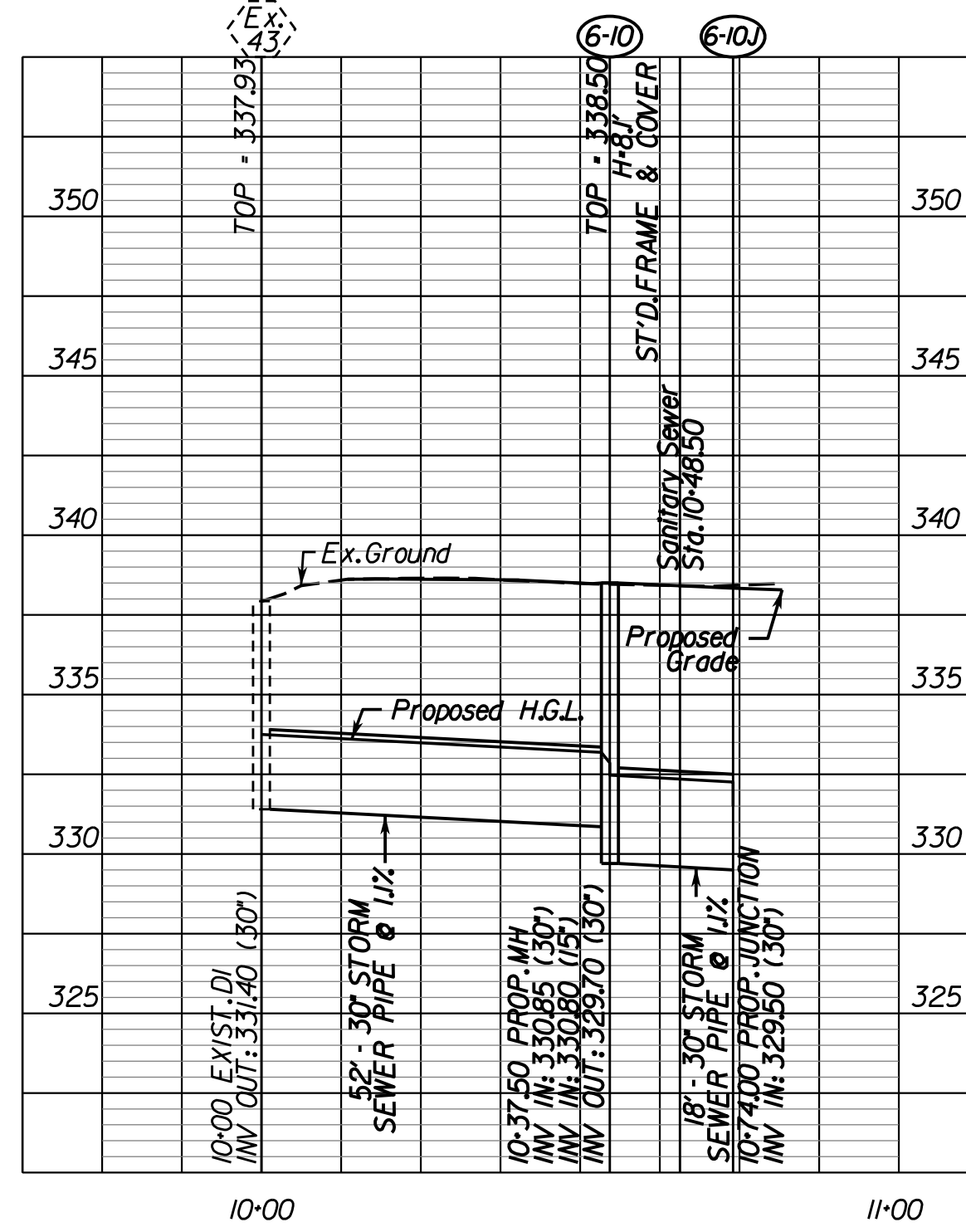
COMMONWEALTH OF VIRGINIA  
 NIKHIL V. DESHPANDE  
 Lic. No. 045430  
 PROFESSIONAL ENGINEER

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

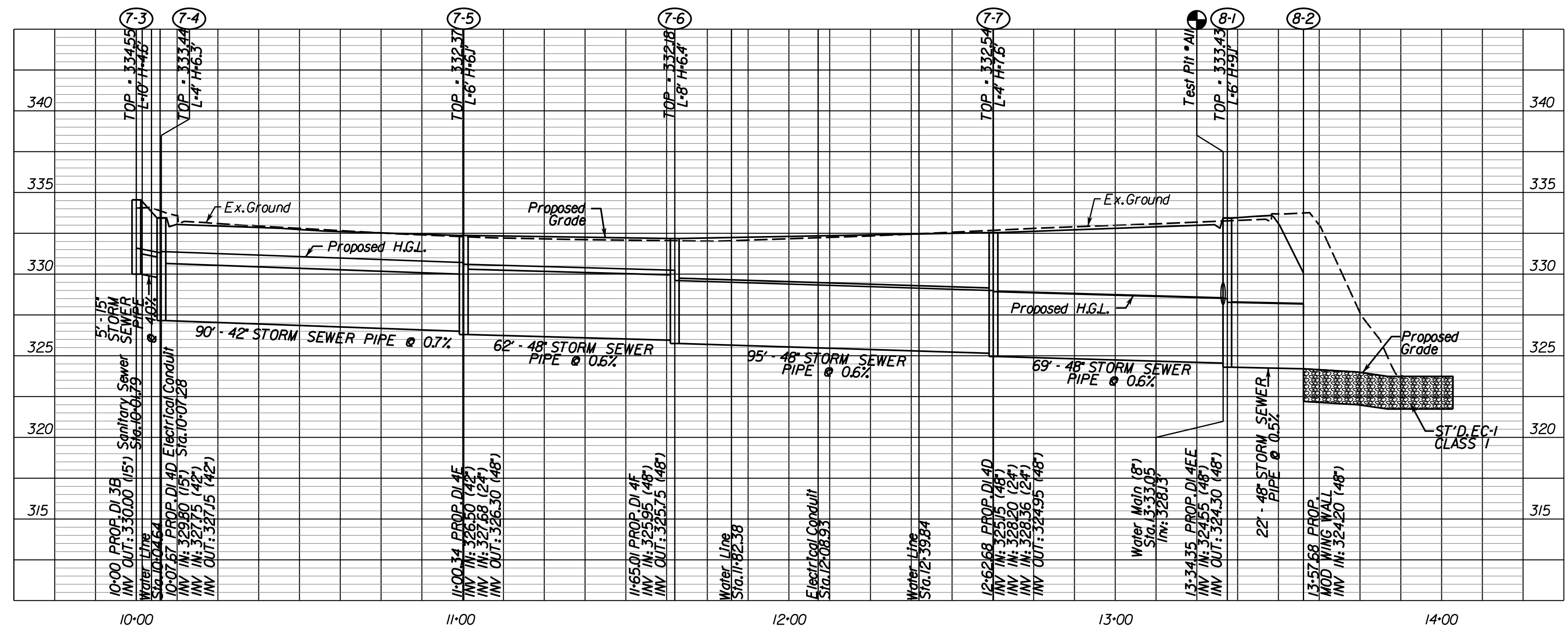
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	0029-151-105 P101, P102, R201, C501	2M(5)

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

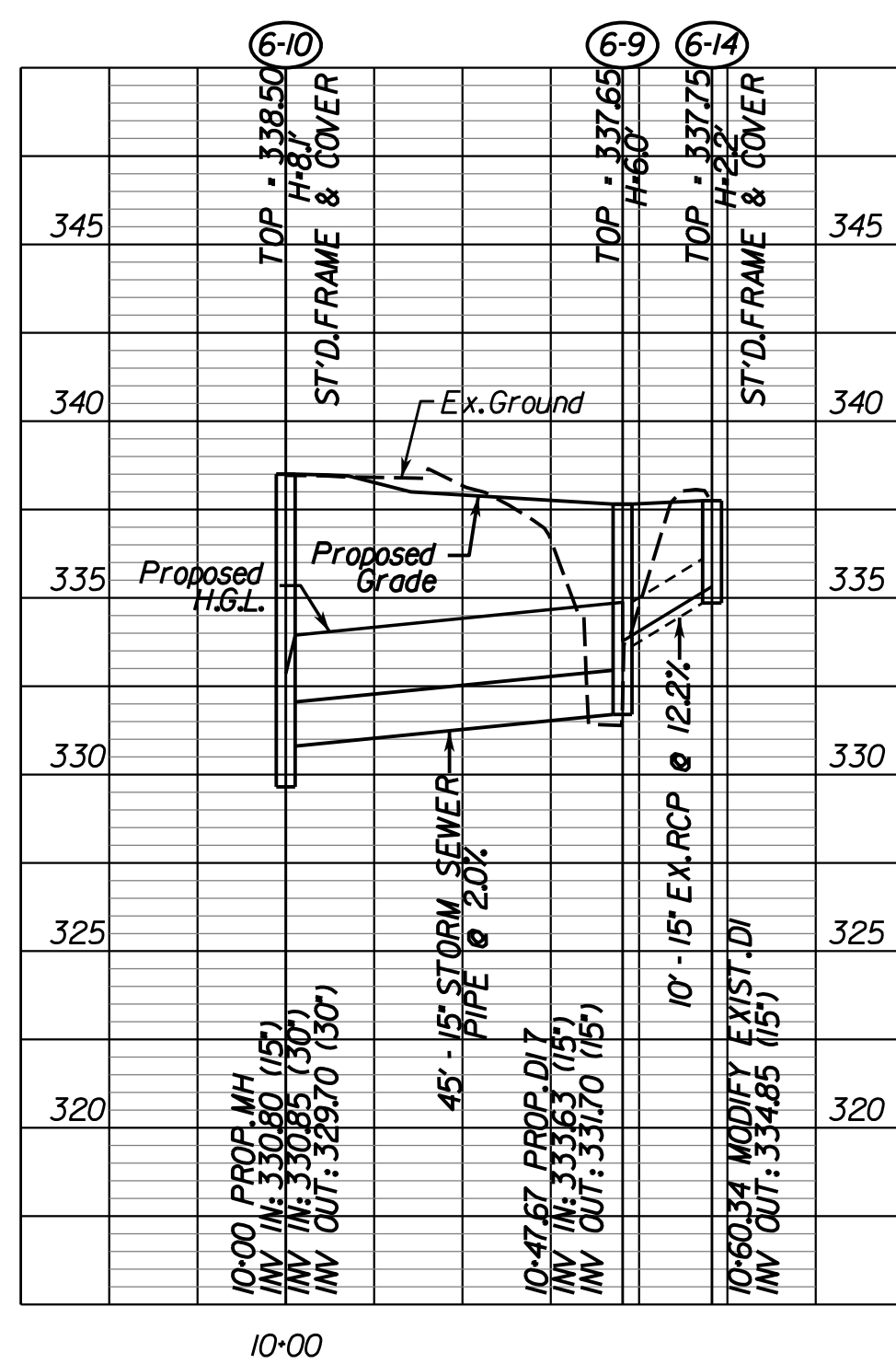
EXIST. STR. 43 TO PROP. CULVERT  
 SCALE: H=1:25', V=1:5'



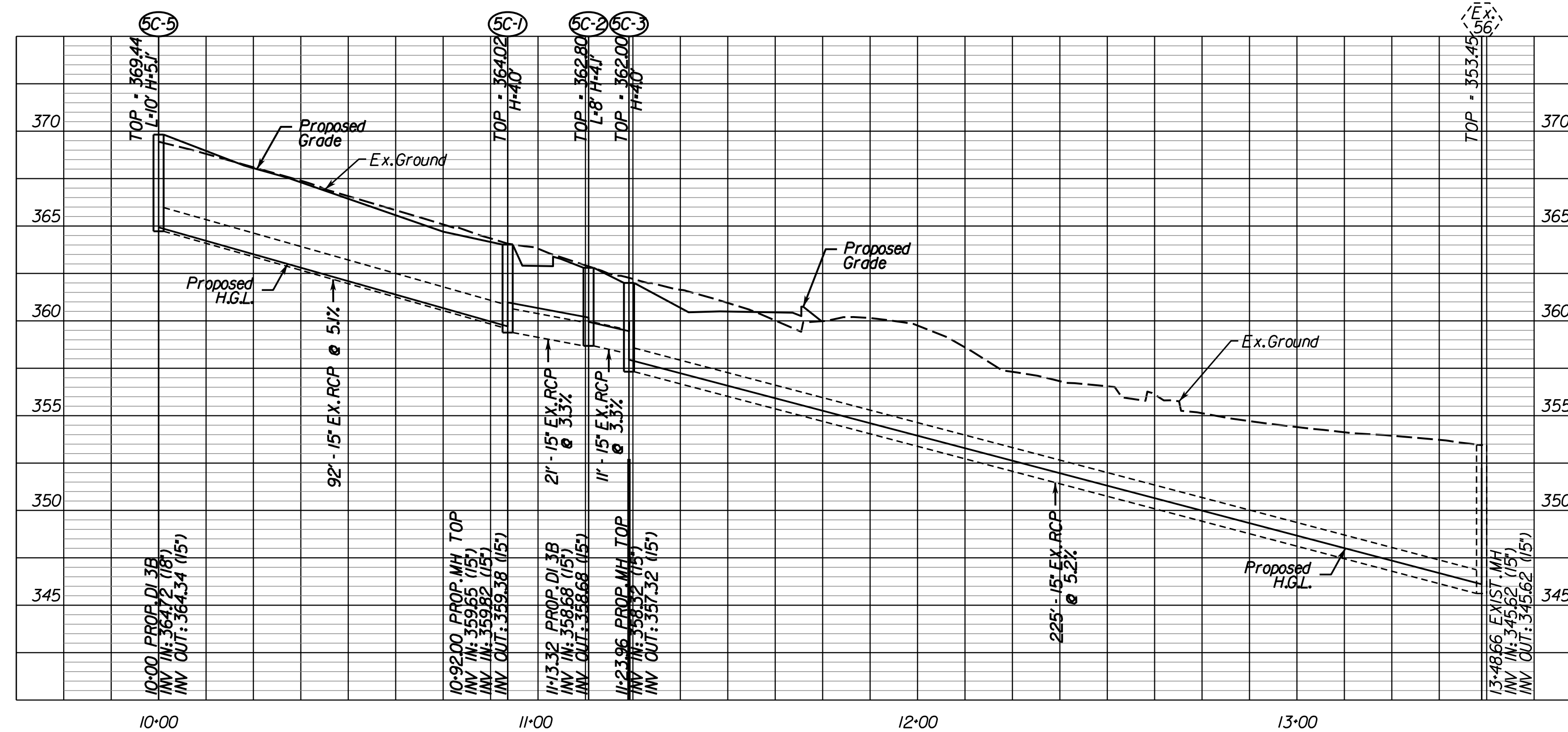
PROP. STR. 7-3 TO PROP. STR. 8-2  
 SCALE: H=1:25', V=1:5'



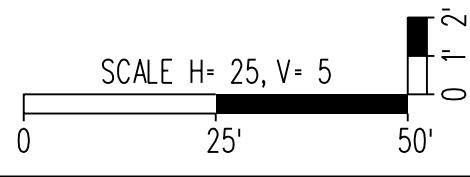
PROP. STR. 6-14 TO PROP. STR. 6-10  
 SCALE: H=1:25', V=1:5'



PROP. STR. 5C-5 TO EXIST. 56  
 SCALE: H=1:25', V=1:5'



**Storm Sewer Construction Notes**  
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PROJECT	SHEET NO.
0029-151-105	2M(5)

Rinker Design Associates, P.C.  
 Civil Engineers  
 Manassas, VA  
 Environmental  
 Transportation  
 Right of Way Services