

PROJECT MANAGER Perry, Eisenach, P.E., City of Winchester (1540), 66Z-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S., Rinker Design Associates (703), 368-7373, October 2014
 DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703), 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew, Braslam, M.D., Atlantic Utility Locating (703), 378-0100, August 2014

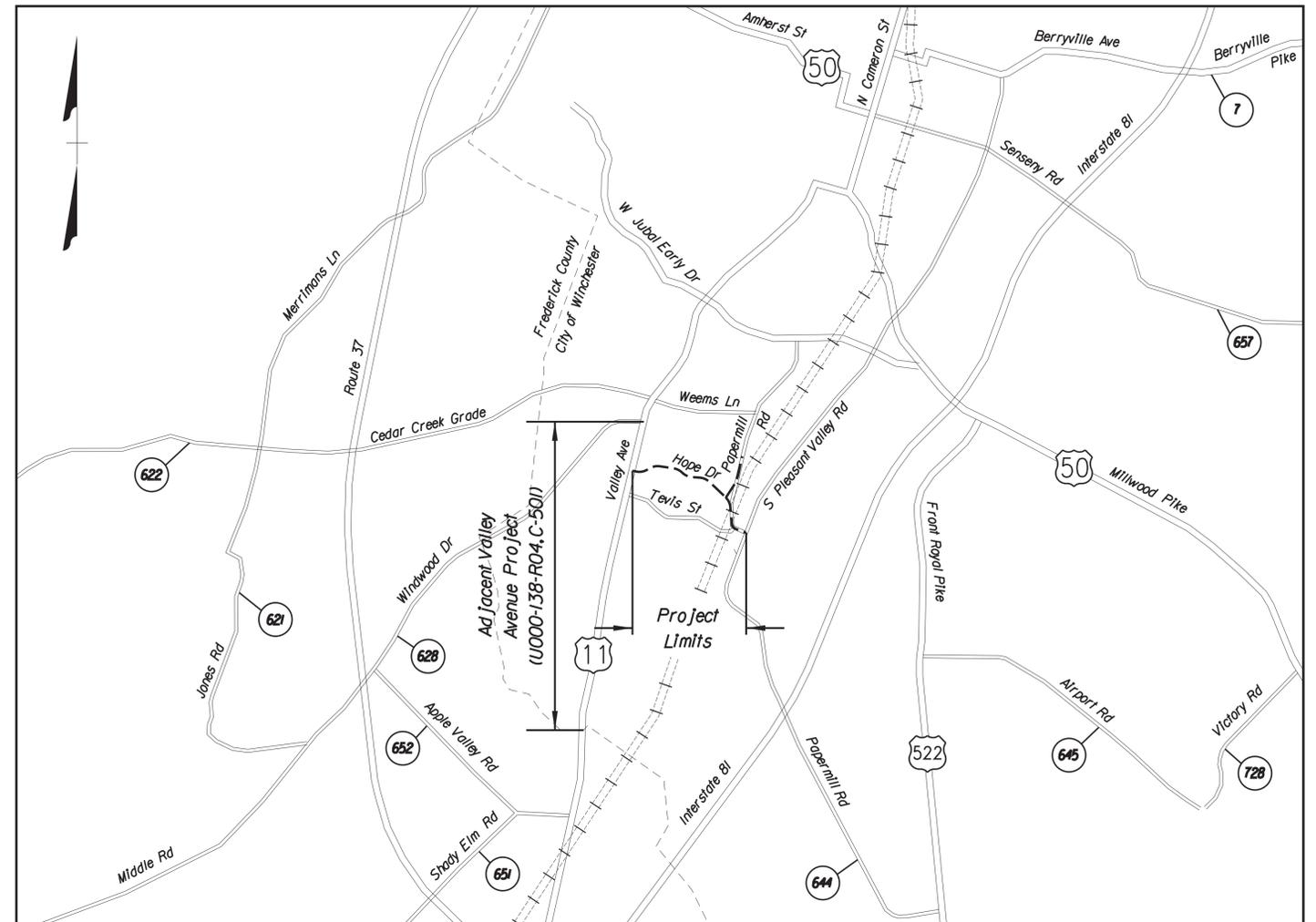
INDEX OF SHEETS & LOCATION MAP

INDEX OF SHEETS

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201, C-501	1A

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



HOPE DRIVE PROJECT LOCATION MAP
 Frederick County & City of Winchester, Virginia
 1" = 2000' Scale

Office Locations
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning
 10000 Old Dominion Blvd, Suite 100
 Fairfax, VA 22030
 703-334-0060
 10000 Old Dominion Blvd, Suite 100
 Fairfax, VA 22030
 703-334-0060
 10000 Old Dominion Blvd, Suite 100
 Fairfax, VA 22030
 703-334-0060

PROJECT	SHEET NO.
RS14-138-R10	1A

PROJECT MANAGER *Becry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Glanville, P.E.* - *Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Baslam - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

REVISED 02-21-2018 03-05-2018 06-27-2018 07-27-2018 08-22-2018 10-17-2018 11-06-2018 03-11-2019 03-22-2019 04-25-2019 07-24-2019 11-08-2019	STATE VA.	ROUTE -	STATE PROJECT RS14-138-R10- R-201,C-501	SHEET NO. 1B
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Right of Way Data Sheet

(For informational purposes only. Please see plats for detailed information.)

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

City/County: *City of Winchester*
 UPC No.: *104266*

PARCEL NO.	LANDOWNER	SHEET NO.	AREA													PROFFERS				
			TOTAL	FEE TAKING		ACQUISITION R/W	FEE REMAINDER		EASEMENT					TEMPORARY	YES / NO					
				Ac. / Sq. Ft.	SQ. FT.		Ac.	Ac.	SQ. FT.	Ac.	DRAINAGE	SIGNAL	PUBLIC UTILITY				RAILROAD CROSSING	GAS LINE	SQ. FT.	
001	WELLS FARGO BANK, NATIONAL ASSOCIATION, FORMERLY WACHOVIA BANK, N.A.	3,4	1,4090	1,844	0,0423		59,532	1,3667						128					1,429	NO
002	BRANCH BANKING AND TRUST COMPANY OF VIRGINIA	3,4	2,2610	11,301	0,2594		87,188	2,0016						233		1,592			4,507	NO
003	DIRECT PARTNERS, LLC	4	2,6430	0	0,0000		115,429	2,6430												NO
004	VALLEY FOOD SERVICE, LLC	4	1,1530	4,891	0,1123		45,334	1,0407								217			3,796	NO
005	NC DEVELOPMENT, LLC	4,5	2,5780	0	0,0000		112,298	2,5780												NO
006	ZOLVIA PROPERTIES, INC.	4,5	2,7080	260	0,0060		117,700	2,7020											2,700	NO
007	MOLDEN REAL ESTATE CORPORATION	5	0,9280	5,496	0,1262		34,928	0,8018		856									34,072	NO
008	PEPPERTREE LANE APARTMENTS, LLC	5	5,4380	0	0,0000		236,879	5,4380												NO
009	MYRLIN D. TAYLOR FORMERLY MYRLIN D. BORROR	5,6	0,2295	0	0,0000		9,997	0,2295												NO
010	ORCHARDCREST APTS, LLC FORMERLY ORCHARDCREST LIMITED PARTNERSHIP FORMERLY WINCHESTER LIMITED PARTNERSHIP	5,6	10,1300	13,125	0,3013	0,1510	421,560	9,6777		379									8,448	NO
011	RAO & SHIELDS LLC	6,7,9	3,9380	3,512	0,0806		168,027	3,8574											6,974	NO
*012	ECONOMIC DEVELOPMENT AUTHORITY OF THE COUNTY OF FREDERICK, VIRGINIA	6,7	4,5624	0	0,0000		198,738	4,5624												NO
013	PINE MOTOR COMPANY, INCORPORATED	7,11	3,5747	0	0,0000	0,2886	143,143	3,2861										1,445		NO
014	CERETHA KAROLYI	7,11	2,4665	0			107,441	2,4665								4,112				NO
015	THOMAS J. MULVANEY, JR.	7	0,3952	5,885	0,1351	0,2601	0	0,0000												NO
016	DSS ENTERPRISES, L.C.	9	0,4330	2,097	0,0481		16,764	0,3849								1,503			2,567	NO
016	DSS ENTERPRISES, L.C.	9	0,4415	565	0,0130		18,667	0,4285											4,658	NO
018	K.T. REALTY, INC.	9	0,5370	0	0,0000		23,392	0,5370		327										NO
019	VINCENT LANZETTA	9	0,4283	0	0,0000		18,657	0,4283												NO
019	VINCENT LANZETTA	9,10	0,5300	0	0,0000		23,087	0,5300												NO
020	TRUSTEES OF NEW HOPE ALLIANCE CHURCH	9	0,2980				12,981	0,2980												NO
021	TRUSTEES OF NEW HOPE ALLIANCE CHURCH	9	0,2980				12,981	0,2980												NO
023	K.T. REALTY, INC.	10	1,1648				50,739	1,1648												NO
024	BSW INVESTMENTS, LLC	10	0,7430				32,365	0,7430												NO
025	LIDL US OPERATIONS, LLC	8	2,3030	0			100,319	2,3030												NO
026	SILVER LAKE LLC	7	5,0761	830	0,0191		220,285	5,0570											2,159	NO
027	BANK OF CLARKE COUNTY	8	0,6097				26,559	0,6097												NO
028	LA DONSUE, L.C.	8,12	1,5086				65,715	1,5086												NO
029	GARLAND WILLIAM STROSNIDER (LIFE ESTATE) AND ROBERT STROSNIDER (LIFE ESTATE) WITH VESTED REMAINDER TO STEPHANIE STROSNIDER AND TIFFANY STROSNIDER	8	0,1600	0	0,0000		6,970	0,1600												NO
030	GLAIZE DEVELOPMENTS, INCORPORATED	8,12	1,8770	0	0,0000		81,762	1,8770		9,651										NO
031	SCHOOL BOARD OF THE CITY OF WINCHESTER	11	17,2520	6,528	0,1499	2,0600	655,236	15,0421												NO
032	ABDUL R. DEAN AND NAZLIE R. DEAN	6	0,2355				10,258	0,2355												NO
033	FEDERAL-MOGUL PRODUCTS US, LLC, SUCCESSOR BY MERGER TO WAGNER ELECTRIC CORPORATION	7	3,9113	0	0,0000		170,376	3,9113											1,355	NO
034	GLAIZE DEVELOPMENTS, INCORPORATED	7	0,0281	0	0,0000		1,224	0,0281												NO
035	HORIZON HOLDINGS, LLC	12	2,0000				87,120	2,0000											194	NO
036	CSX RAILROAD	7,11												7,482					14,018	NO

* ACQUIRED THROUGH DEDICATION
 -032- DENOTES PARCEL NOT BEING IMPACTED



PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Basilew* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

Right of Way Data Sheet

(For informational purposes only. Please see plats for detailed information.)

REVISED 07-24-2019 11-08-2019	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	1B(1)

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

City/County: *City of Winchester*

UPC No.: *104266*

DEMOLITION OF BUILDING/CLEARING OF PARCEL/CLOSING OF WELL/UNDERGROUND STORAGE TANK REMOVAL SUMMARY					
SHEET NO.	PARCEL NO.	DEMOLITION NO.	LANDOWNER	STATION	DESCRIPTION
		101	NOT ASSIGNED		
4	002	102	BRANCH BANKING AND TRUST COMPANY OF VIRGINIA	14+13 RT	REMOVE BB&T ENTRANCE SIGN
4	004	103	VALLEY FOOD SERVICE, LLC.	15+11 RT	REMOVE ARBY'S SIGN
4	004	104	VALLEY FOOD SERVICE, LLC.	16+11 RT	REMOVE ARBY'S EXIT SIGN
		105	NOT ASSIGNED		
		106	NOT ASSIGNED		
7	015	107	THOMAS J. MULVANEY, JR.	40+10 RT	REMOVE BLOCK RETAINING WALL & CONC. PAD
7	015	108	THOMAS J. MULVANEY, JR.	40+75 RT	REMOVE BUILDING FOUNDATION
		109	NOT ASSIGNED		
3	002	701	BRANCH BANKING AND TRUST COMPANY OF VIRGINIA	11+56 RT	REMOVE BB&T ENTRANCE SIGN
4	002	702	BRANCH BANKING AND TRUST COMPANY OF VIRGINIA	13+18 RT	REMOVE BB&T "DO NOT ENTER" SIGN
4	002	703	BRANCH BANKING AND TRUST COMPANY OF VIRGINIA	13+51 RT	REMOVE BB&T "DO NOT ENTER" & STOP SIGN
6	010	704	ORCHARDCREST LIMITED PARTNERSHIP	27+88 RT	REMOVE ORCARDCREST ENTRANCE SIGN
7	033	705	FEDERAL-MOGUL PRODUCTS US, LLC	102+37 RT	REMOVE FEDERAL MOGUL ENTRANCE SIGN
9	016	706	DSS ENTERPRISES, L.C.	105+80 LT	REMOVE DUMPSTER SIGN
9	016	707	DSS ENTERPRISES, L.C.	105+35 LT	REMOVE TENANT PARKING SIGN
		708	NOT ASSIGNED		

PROJECT MANAGER *Ecory, Eisenach, P.E. - City of Winchester (540) 667-2085*
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 DESIGN BY *John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew, Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

Survey Control and Traverse Data

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-RIO- R-201,C-501	1E

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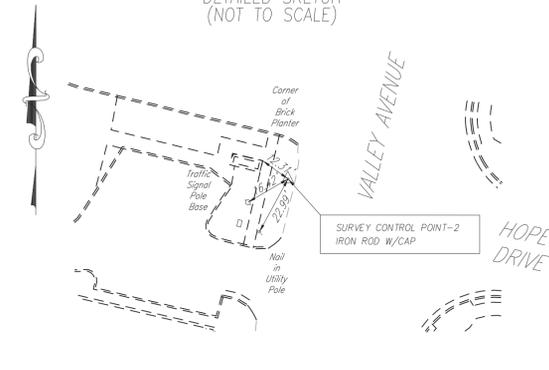
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 2
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,571,873.1840
 North (Y): 7,104,775.6550
 East (Z): 761.44

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



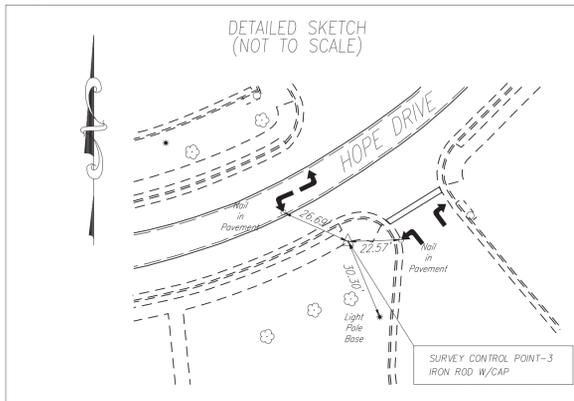
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 3
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,572,206.6532
 North (Y): 7,104,741.7565
 East (Z): 753.07

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



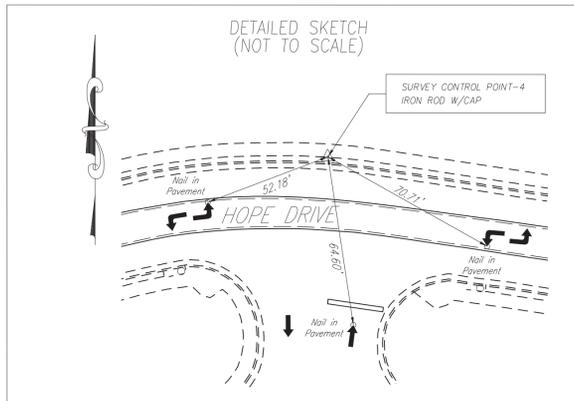
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 4
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,572,457.9900
 North (Y): 7,104,914.5390
 East (Z): 751.16

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



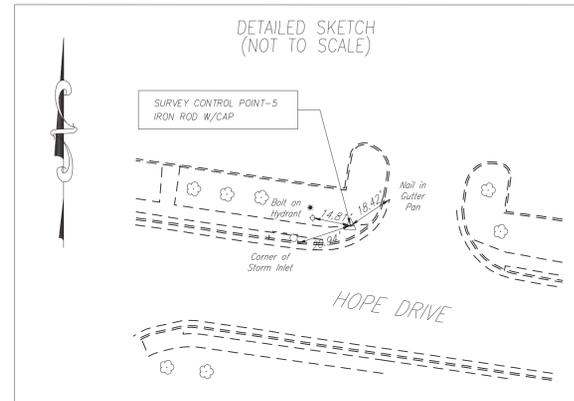
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 5
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,572,792.0959
 North (Y): 7,104,872.4635
 East (Z): 747.71

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



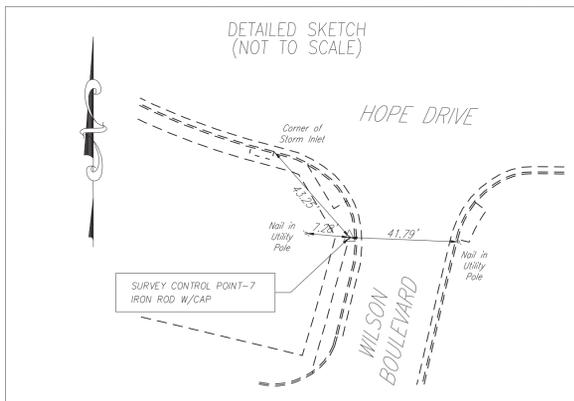
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 7
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,573,303.4159
 North (Y): 7,104,561.8849
 East (Z): 736.12

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



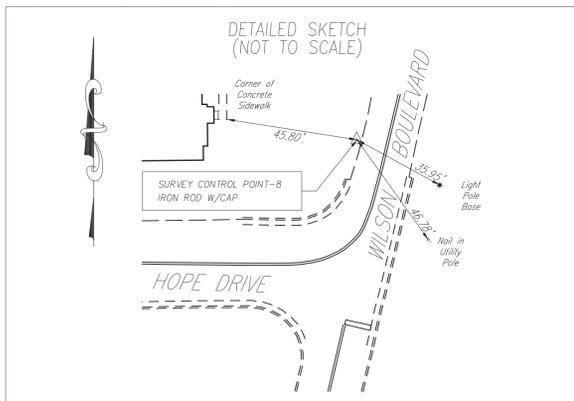
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 8
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,573,617.7797
 North (Y): 7,104,650.2923
 East (Z): 731.01

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



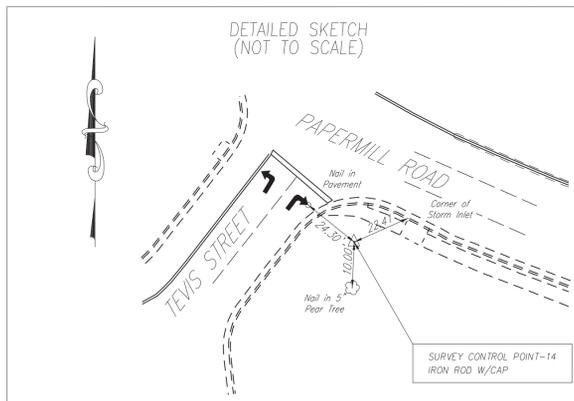
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 14
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,574,480.6181
 North (Y): 7,103,257.9689
 East (Z): 723.08

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



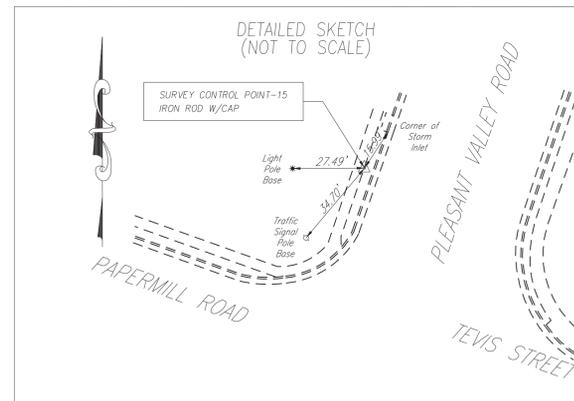
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
 Control Station I. D.: 15
 CITY OF WINCHESTER
 Established By: RINKER DESIGN ASSOCIATES, P.C.
 Vertical Datum Based On: NAVD 1988
 Horizontal Datum Based On: NAD 1983
 Survey By: DALE WINE
 Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
 East (X): 11,574,759.3264
 North (Y): 7,103,292.4307
 East (Z): 724.17

** See Below for detailed sketch location

DETAILED SKETCH (NOT TO SCALE)



PROJECT MANAGER *Ecory, Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
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 SUBSURFACE UTILITY BY, DATE *Matthew, Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

Survey Control and Traverse Data

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-RIO- R-201,C-501	1E(1)

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

Office Locations
 Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 Phone: (972) 412-1000
 Fax: (972) 412-1001
 www.rinker.com
 Rinker Design Associates, P.C.
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 Phone: (972) 412-1000
 Fax: (972) 412-1001
 www.rinker.com

Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
Control Station I. D.: 21
CITY OF WINCHESTER

Established By: RINKER DESIGN ASSOCIATES, P.C.
Vertical Datum Based On: NAVD 1988
Horizontal Datum Based On: NAD 1983
Survey By: DALE WINE
Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
East (X): 11,574,617.5544
North (Y): 7,105,014.2394
East (Z): 723.43

** See Below for detailed sketch location

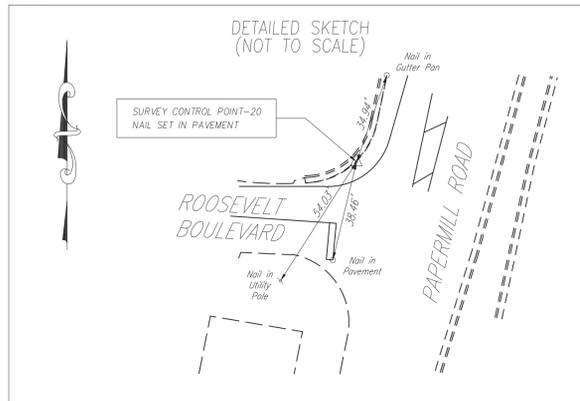
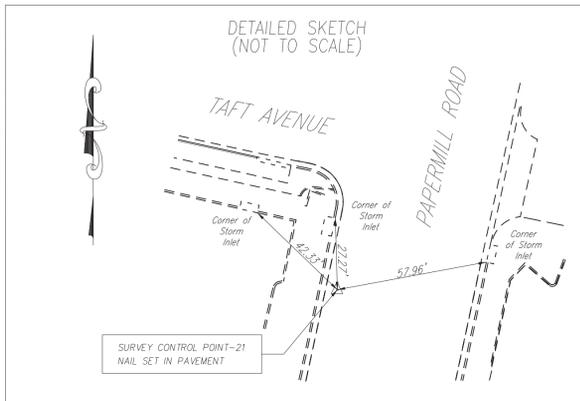
Rinker Design Associates, P.C. Horizontal Control Card

HOPE DRIVE EXTENSION
Control Station I. D.: 20
CITY OF WINCHESTER

Established By: RINKER DESIGN ASSOCIATES, P.C.
Vertical Datum Based On: NAVD 1988
Horizontal Datum Based On: NAD 1983
Survey By: DALE WINE
Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
East (X): 11,574,538.8233
North (Y): 7,104,679.7193
East (Z): 727.22

** See Below for detailed sketch location



Rinker Design Associates, P.C. Horizontal Control Card

TEVIS STREET
Control Station I. D.: 23
CITY OF WINCHESTER

Established By: RINKER DESIGN ASSOCIATES, P.C.
Vertical Datum Based On: NAVD 1988
Horizontal Datum Based On: NAD 1983
Survey By: ROBERT GRIM
Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
East (X): 11,573,144.8112
North (Y): 7,103,536.9843
East (Z): 741.20

** See Below for detailed sketch location

Rinker Design Associates, P.C. Horizontal Control Card

TEVIS STREET
Control Station I. D.: 24
CITY OF WINCHESTER

Established By: RINKER DESIGN ASSOCIATES, P.C.
Vertical Datum Based On: NAVD 1988
Horizontal Datum Based On: NAD 1983
Survey By: ROBERT GRIM
Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
East (X): 11,572,742.2387
North (Y): 7,103,570.3394
East (Z): 743.09

** See Below for detailed sketch location

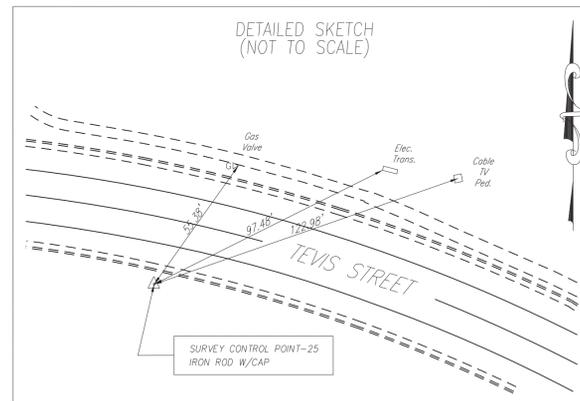
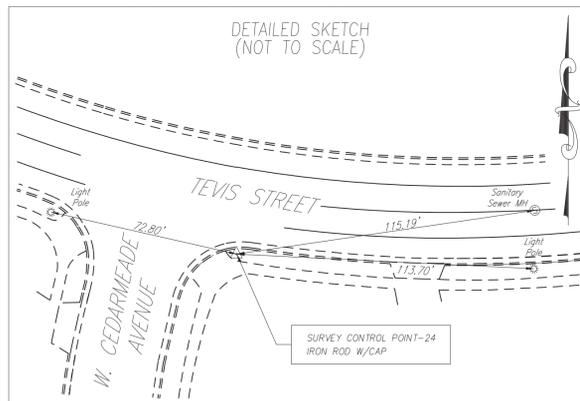
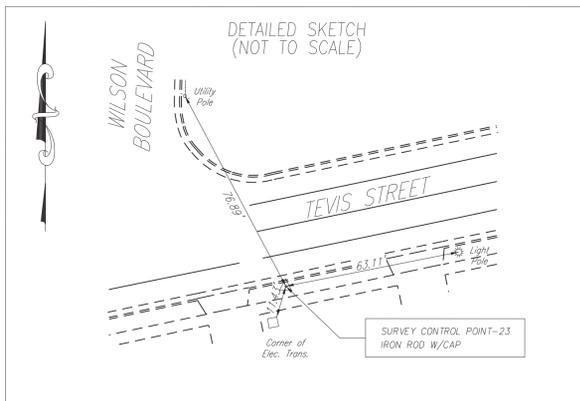
Rinker Design Associates, P.C. Horizontal Control Card

TEVIS STREET
Control Station I. D.: 25
CITY OF WINCHESTER

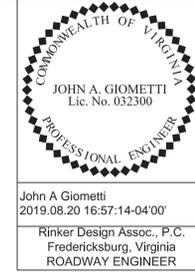
Established By: RINKER DESIGN ASSOCIATES, P.C.
Vertical Datum Based On: NAVD 1988
Horizontal Datum Based On: NAD 1983
Survey By: ROBERT GRIM
Field Operator: TIM GRIFFITH

Control Data-Project Coordinates
East (X): 11,572,238.4558
North (Y): 7,103,976.2200
East (Z): 754.25

** See Below for detailed sketch location



PROJECT MANAGER *Barry Eisenach, P.E.* - City of Winchester (540) 667-2085
SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-RIO R-201,C-501	IF(1)

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

John A. Giometti
2019.08.20 16:57:14-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

FRONTAGE ROAD

From Sta. 9+94.05 to 13+75.00

Beginning chain FRONTAGE description

Point F101 N 7,03,918.6754 E 11,574,348.2916 Sta 9+94.05

Course from F101 to PC FRONTAGE-1 N 73° 29' 29.36" E Dist 46.7165

Curve Data

Curve FRONTAGE-1

P.J. Station 10+63.12 N 7,03,938.3030 E 11,574,414.5170
Delta = 62° 34' 29.56" (LT)
Degree = 155° 44' 49.60"
Tangent = 22.3562
Length = 40.1772
Radius = 36.7877
External = 6.2604
Long Chord = 38.2100
Mid.Ord. = 5.3499
P.C. Station 10+40.77 N 7,03,931.9503 E 11,574,393.0823
P.T. Station 10+80.94 N 7,03,960.2547 E 11,574,418.7508
C.C. N 7,03,967.2215 E 11,574,382.6288
Back = N 73° 29' 29.36" E
Ahead = N 10° 54' 59.79" E
Chord Bear = N 42° 12' 14.57" E

Course from PT FRONTAGE-1 to PC FRONTAGE-2 N 10° 54' 59.79" E Dist 100.5145

Curve Data

Curve FRONTAGE-2

P.J. Station 12+43.68 N 7,04,120.0427 E 11,574,449.5692
Delta = 15° 02' 31.18" (RT)
Degree = 12° 09' 28.72"
Tangent = 62.2184
Length = 123.7212
Radius = 471.2608
External = 4.0895
Long Chord = 123.3662
Mid.Ord. = 4.0543
P.C. Station 11+81.46 N 7,04,058.9503 E 11,574,437.7862
P.T. Station 13+05.18 N 7,04,175.9839 E 11,574,476.8035
C.C. N 7,03,969.7029 E 11,574,900.5190
Back = N 10° 54' 59.79" E
Ahead = N 25° 57' 30.97" E
Chord Bear = N 18° 26' 15.38" E

Course from PT FRONTAGE-2 to F107 N 25° 57' 30.97" E Dist 69.8200

Point F107 N 7,04,238.7598 E 11,574,507.3652 Sta 13+75.00

Ending chain FRONTAGE description

FRONTAGE ROAD CUL-DE-SAC

From Sta. 10+00.00 to 13+01.16

Beginning chain FRONTAGECUL2 description

Point FC201 N 7,04,245.3256 E 11,574,493.8786 Sta 10+00.00

Course from FC201 to PC FRONTAGECULIO N 25° 57' 30.97" E Dist 37.2561

Curve Data

Curve FRONTAGECULIO

P.J. Station 11+22.23 N 7,04,355.2238 E 11,574,547.3812
Delta = 124° 11' 27.12" (RT)
Degree = 127° 19' 26.24"
Tangent = 84.9738
Length = 97.5393
Radius = 45.0000
External = 51.538
Long Chord = 79.5355

Mid.Ord. = 23.9400
P.C. Station 10+37.26 N 7,04,278.8230 E 11,574,510.1863
P.T. Station 11+34.80 N 7,04,281.5238 E 11,574,589.6760
C.C. N 7,04,259.1255 E 11,574,550.6463
Back = N 25° 57' 30.97" E
Ahead = S 29° 51' 01.91" E
Chord Bear = N 88° 03' 14.53" E

Curve Data

Curve FRONTAGECUL11

P.J. Station 12+19.77 N 7,04,207.8237 E 11,574,631.9708
Delta = 124° 11' 27.11" (RT)
Degree = 127° 19' 26.24"
Tangent = 84.9738
Length = 97.5393
Radius = 45.0000
External = 51.538
Long Chord = 79.5355
Mid.Ord. = 23.9400
P.C. Station 11+34.80 N 7,04,281.5238 E 11,574,589.6760
P.T. Station 12+32.33 N 7,04,214.2545 E 11,574,547.2407
C.C. N 7,04,259.1255 E 11,574,550.6463
Back = S 29° 51' 01.92" E
Ahead = N 85° 39' 34.81" W
Chord Bear = S 32° 14' 41.64" W

Curve Data

Curve FRONTAGECUL12

P.J. Station 12+66.30 N 7,04,216.8253 E 11,574,513.3698
Delta = 68° 22' 54.22" (LT)
Degree = 114° 35' 29.61"
Tangent = 33.9683
Length = 59.6743
Radius = 50.0000
External = 10.4471
Long Chord = 56.1951
Mid.Ord. = 8.6415
P.C. Station 12+32.33 N 7,04,214.2545 E 11,574,547.2407
P.T. Station 12+92.01 N 7,04,186.2840 E 11,574,498.5011
C.C. N 7,04,164.3979 E 11,574,543.4567
Back = N 85° 39' 34.81" W
Ahead = S 25° 57' 30.97" W
Chord Bear = S 60° 08' 58.08" W

Ending chain FRONTAGECUL2 description

TEVIS STREET CUL-DE-SAC

From Sta. 10+00 to 12+82.11

Beginning chain TEVISCULDESAC2 description

Point TC201 N 7,03,540.4691 E 11,573,569.3260 Sta 10+00.00

Curve Data

Curve TEVISCUL2-C1

P.J. Station 10+33.54 N 7,03,538.5303 E 11,573,602.8148
Delta = 96° 23' 09.56" (RT)
Degree = 190° 59' 09.35"
Tangent = 33.5449
Length = 50.4676
Radius = 30.0000
External = 15.0029
Long Chord = 44.7237
Mid.Ord. = 10.0013
P.C. Station 10+00.00 N 7,03,540.4691 E 11,573,569.3260
P.T. Station 10+50.47 N 7,03,505.4649 E 11,573,597.1632
C.C. N 7,03,510.5193 E 11,573,567.5920
Back = S 86° 41' 11.72" E
Ahead = S 9° 41' 57.85" W
Chord Bear = S 38° 29' 36.93" E

Curve TEVISCUL2-C2

P.J. Station 11+41.54 N 7,03,414.8614 E 11,573,587.9031
Delta = 124° 25' 06.18" (LT)
Degree = 119° 21' 58.35"
Tangent = 91.0755
Length = 104.2325
Radius = 48.0000
External = 54.9502
Long Chord = 84.9270
Mid.Ord. = 25.6203
P.C. Station 10+50.47 N 7,03,505.4649 E 11,573,597.1632
P.T. Station 11+54.70 N 7,03,458.4344 E 11,573,667.8790
C.C. N 7,03,500.5845 E 11,573,644.9144
Back = S 5° 50' 08.31" W
Ahead = N 61° 25' 02.13" E
Chord Bear = S 56° 22' 24.78" E

Curve Data

Curve TEVISCUL2-C3

P.J. Station 12+70.17 N 7,03,513.6803 E 11,573,769.2798
Delta = 134° 51' 24.60" (LT)
Degree = 119° 21' 58.35"
Tangent = 115.4740
Length = 112.9774
Radius = 48.0000
External = 77.0530
Long Chord = 88.6465
Mid.Ord. = 29.5758
P.C. Station 11+54.70 N 7,03,458.4344 E 11,573,667.8790
P.T. Station 12+67.68 N 7,03,546.5934 E 11,573,658.5957
C.C. N 7,03,500.5845 E 11,573,644.9144
Back = N 61° 25' 02.14" E
Ahead = N 73° 26' 22.46" W
Chord Bear = N 6° 00' 40.16" W

Course from PT TEVISCUL2-C3 to TC205 N 73° 26' 22.46" W Dist 14.4346

Point TC205 N 7,03,550.7077 E 11,573,644.7599 Sta 12+82.11

Ending chain TEVISCULDESAC2 description



PROJECT MANAGER *Barry Eisenach, P.E.* - City of Winchester (540) 667-2085
SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

Office Locations
Rinker Design Associates, P.C.
10000 Westpark Blvd., Suite 200
Falls Church, VA 22044
703-334-0060
www.rinker.com

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Right of Way Services
10000 Westpark Blvd., Suite 200
Falls Church, VA 22044
703-334-0060
www.rinker.com

TEVIS STREET

From Sta. 500+00.00 to 520+66.90

Beginning chain TEVIS2 description

Point T101 N 7,04,142.1602 E 11,571,757.4743 Sta 500+00.00

Course from T101 to T102 S 74° 37' 36.21" E Dist 419.3883

Point T102 N 7,04,030.9776 E 11,572,161.8566 Sta 504+19.39

Curve Data

Curve TEVIS-C3

P.I. Station 506+44.66 N 7,03,971.2567 E 11,572,379.0679
Delta = 39° 42' 47.56" (RT)
Degree = 9° 11' 06.81"
Tangent = 225.2717
Length = 432.3597
Radius = 623.7820
External = 39.4309
Long Chord = 423.7567
Mid.Ord. = 37.0866
P.C. Station 504+19.39 N 7,04,030.9776 E 11,572,161.8566
P.T. Station 508+51.75 N 7,03,786.5300 E 11,572,507.9998
C.C. N 7,03,429.5151 E 11,571,996.4880
Back = S 74° 37' 36.20" E
Ahead = S 34° 54' 48.64" E
Chord Bear = S 54° 46' 12.42" E

Course from PT TEVIS-C3 to T104 S 34° 54' 48.64" E Dist 26.8173

Point T104 N 7,03,764.5394 E 11,572,523.3484 Sta 508+78.57

Curve Data

Curve TEVIS-C4

P.I. Station 511+30.46 N 7,03,557.9826 E 11,572,667.5168
Delta = 55° 11' 55.03" (LT)
Degree = 11° 53' 27.61"
Tangent = 251.8933
Length = 464.2050
Radius = 481.8415
External = 61.8693
Long Chord = 446.4602
Mid.Ord. = 54.8292
P.C. Station 508+78.57 N 7,03,764.5394 E 11,572,523.3484
P.T. Station 513+42.77 N 7,03,558.4756 E 11,572,919.4095
C.C. N 7,04,040.3161 E 11,572,918.4666
Back = S 34° 54' 48.63" E
Ahead = N 89° 53' 16.34" E
Chord Bear = S 62° 30' 46.15" E

Course from PT TEVIS-C4 to T106 N 89° 53' 16.34" E Dist 607.9596

Point T106 N 7,03,559.6653 E 11,573,527.3680 Sta 519+50.73

Curve Data

Curve TEVIS-C5

P.I. Station 520+09.35 N 7,03,559.7801 E 11,573,585.9916
Delta = 19° 01' 01.66" (RT)
Degree = 16° 22' 12.80"
Tangent = 58.6237
Length = 116.1690
Radius = 350.0000
External = 4.8757
Long Chord = 115.6365
Mid.Ord. = 4.8087
P.C. Station 519+50.73 N 7,03,559.6653 E 11,573,527.3680
P.T. Station 520+66.90 N 7,03,540.7860 E 11,573,641.4530
C.C. N 7,03,209.6660 E 11,573,528.0530
Back = N 89° 53' 16.34" E
Ahead = S 71° 05' 42.00" E
Chord Bear = S 80° 36' 12.83" E

Ending chain TEVIS2 description

VALOR DRIVE

From Sta. 800+00.00 to 800+73.78

Beginning chain VALOR description

Point V100 N 7,04,791.5989 E 11,573,043.1225 Sta 800+00.00

Course from V100 to V101 N 26° 32' 24.87" E Dist 61.9201

Point V101 N 7,04,846.9939 E 11,573,070.7901 Sta 800+61.92

Course from V101 to V102 N 27° 20' 59.46" E Dist 11.8585

Point V102 N 7,04,857.5269 E 11,573,076.2381 Sta 800+73.78

Ending chain VALOR description

WILSON BOULEVARD

From Sta. 900+00.00 to 900+92.79

Beginning chain WILSON2 description

Point W105 N 7,04,613.5601 E 11,573,338.5506 Sta 900+00.00

Course from W105 to W106 S 13° 27' 07.10" W Dist 92.7933

Point W106 N 7,04,523.3125 E 11,573,316.9640 Sta 900+92.79

Ending chain WILSON2 description

WILSON BOULEVARD

From Sta. 200+00.00 to 200+89.44

Beginning chain WILSON description

Point W101 N 7,04,588.0708 E 11,573,620.4763 Sta 200+00.00

Course from W101 to W102 N 5° 47' 03.91" E Dist 26.5527

Point W102 N 7,04,614.4883 E 11,573,623.1525 Sta 200+26.55

Curve Data

Curve WILSON-C1

P.I. Station 200+39.92 N 7,04,627.7883 E 11,573,624.4900
Delta = 7° 38' 50.61" (RT)
Degree = 28° 38' 52.40"
Tangent = 13.3671
Length = 26.6944
Radius = 200.0000
External = 0.4462
Long Chord = 26.6746
Mid.Ord. = 0.4452
P.C. Station 200+26.55 N 7,04,614.4883 E 11,573,623.1525
P.T. Station 200+53.25 N 7,04,640.7919 E 11,573,627.5856
C.C. N 7,04,594.4758 E 11,573,822.1487
Back = N 5° 44' 33.95" E
Ahead = N 13° 23' 24.55" E
Chord Bear = N 9° 33' 59.25" E

Course from PT WILSON-C1 to W104 N 12° 38' 04.07" E Dist 36.1955

Point W104 N 7,04,676.1110 E 11,573,635.5026 Sta 200+89.44

Ending chain WILSON description

COMMERCIAL ENTRANCE

From Sta. 700+00.20 to 701+56.81

Beginning chain COMMENT description

Point COMM201 N 7,03,323.0029 E 11,574,481.4562 Sta 700+00.20

Course from COMM201 to PC COMMENT-1 S 37° 37' 54.27" W Dist 85.8478

Curve Data

Curve COMMENT-1

P.I. Station 701+06.09 N 7,03,239.1431 E 11,574,416.8015
Delta = 43° 41' 10.20" (LT)
Degree = 114° 35' 29.61"
Tangent = 20.0422
Length = 38.1234
Radius = 50.0000
External = 3.8673
Long Chord = 37.2066
Mid.Ord. = 3.5897
P.C. Station 700+86.05 N 7,03,255.0156 E 11,574,429.0389
P.T. Station 701+24.18 N 7,03,219.2127 E 11,574,418.9154
C.C. N 7,03,224.4864 E 11,574,468.6365
Back = S 37° 37' 54.27" W
Ahead = S 6° 03' 15.93" E
Chord Bear = S 15° 47' 19.17" W

Course from PT COMMENT-1 to COMM202 S 6° 03' 15.93" E Dist 32.6317

Point COMM202 N 7,03,186.7630 E 11,574,422.3572 Sta 701+56.81

Ending chain COMMENT description

PLEASANT VALLEY ROAD

From Sta. 400+00.00 to 404+00.00

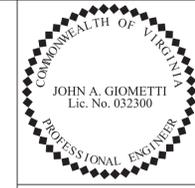
Beginning chain PLEASANT description

Point D410 N 7,03,396.7527 E 11,574,834.6707 Sta 400+00.00

Course from D410 to D411 S 19° 43' 14.15" W Dist 400.0000

Point D411 N 7,03,020.2130 E 11,574,699.6972 Sta 404+00.00

Ending chain PLEASANT description



John A. Giometti
2020.04.24 09:28:51-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	1F(2)

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

PROJECT MANAGER *Berry Eisenach, P.E., City of Winchester (540) 667-2085*
SURVEYED BY, DATE *Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014*
DESIGN BY *John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060*
SUBSURFACE UTILITY BY, DATE *Matthew Ranslem, Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

CSX CONSTRUCTION REQUIREMENTS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10	IH

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

Subject: Winchester, Virginia – Proposed elimination of the Papermill Road (DOT # 139 454 M) and Tevis Street (DOT # 139 455 U) at-grade crossings with CSXT at Mileposts BAD-33.91 & 34.12; and construction of the new Hope Drive at-grade crossing (DOT# 938 231 C) with CSXT at Milepost BAD-33.98; Baltimore Zone, Shenandoah Subdivision; VDOT UPC 104266; CSXT OP # VA0466

CONSTRUCTION REQUIREMENTS

When performing work on, under or adjacent to CSX Transportation ("CSXT") right-of-way or operations, the City of Winchester ("City") selected contractor ("Contractor") must abide by the current CSXT Special Provisions, CSXT Construction Submission Criteria and the following additional requirements.

- All construction related correspondence will be directed to AECOM, acting as the Construction Monitoring Representative ("CMR") on behalf of CSXT, with the following contact and address:

Brian V. Harrison
Manager – Construction Services
AECOM
1700 Market Street, Suite 1600
Philadelphia, PA 19103
brian.harrison@aecom.com
(215) 735-0832

Upon receipt of notification, the CMR will direct the Contractor to the local CSXT construction contact for the project.

- Prior to construction, City or its Contractor shall provide two (2) hard copy sets as well as one (1) digital/electronic copy (CD preferred) of the Final Approved-For-Construction Plans for the subject project to AECOM, at the address listed above. Any subsequent revisions to the Final Approved-For-Construction Plans shall also be provided.
- Prior to any construction activities on or about CSXT, the Contractor shall have a pre-construction meeting with CSXT's designated representative and the CMR to discuss potential On-Track Safety issues during project construction activities.
- Construction procedures for all work in the vicinity of CSXT property, that has the potential of affecting CSXT property or operations, shall be submitted to CSXT, and the CMR, prior to the work being performed. The Contractor shall obtain written acceptance of the submitted construction procedures from CSXT or their representative before proceeding with construction.

All construction submittals shall be directed to Brian V. Harrison (contact information above) and:

Paul Vourron
AECOM
707 Grant Street, 5th Floor
Pittsburgh, Pa 15219
paul.vourron@aecom.com
(412) 316-3580

Up to thirty (30) days will be required to review all construction submissions. Up to an additional thirty (30) days will be required to review any subsequent submissions returned not approved with requests for additional information. Work will not be permitted to commence until the Contractor has provided CSXT with a satisfactory plan for the associated work, detailing how the work will be undertaken without impacting scheduling, performance or safety related issues.

NOTE: All construction work shall be performed in accordance with the construction procedure reviewed and accepted by CSXT or the CMR. Revisions to Contractor submittals may not be field approved. Any deviation(s) from a previously accepted plan including equipment substitutions will require a formal resubmission of the procedure for review and acceptance prior to performing any work.

The Contractor shall submit, as separate submittals, the following construction procedures and documents, and any additional construction procedures determined to be necessary by the CSXT or the CMR.

- Means and Methods – The Contractor shall develop separate detailed submissions for each work items presenting the potential to impact CSXT property or operations. The work items requiring submissions should be coordinated with the CMR prior to their development and submission. Each submission shall:
 - Indicate the progression of work with specific times when tasks will be performed during the project.
 - Provide a listing of the anticipated equipment to be used, a marked up plan with relevant dimensions detailing the location of all equipment to be used, and a contingency plan of action should a primary piece of equipment malfunction.
 - Include a detailed narrative discussing the project level coordination of specific work operations and project safety issues between the City, Contractor, CSXT and the CMR.
 - If determined by CSXT or the CMR to be necessary, include a walkthrough at which time CSXT and/or the CMR will be present.

Anticipated means and methods submissions include, but are not limited to, equipment operations, culvert installation, drainage, dewatering, roadway paving and temporary works.

- Ballast Protection – A ballast protection system may be required at the sole discretion of CSXT depending on the contractor's proposed methods to perform the work. The system shall use filter fabric and indicate the anchorage system. The ballast protection is to extend a minimum of 25' beyond the proposed limit of work or greater as determined by CSXT and be continuously maintained to prevent all contaminants from entering the ballast section of all tracks for the entire duration of the project.

- Contractor shall perform all drainage work on and adjacent to CSXT property in strict compliance with the approved project plans. The Contractor shall ensure that proper erosion control is implemented on and adjacent to CSXT right-of-way during construction. The Contractor must prevent silt and debris accumulation in the railroad roadbed, ditches and other railroad facilities. The Contractor may be required to submit a detailed erosion control plan for review and acceptance by CSXT or the CMR prior to performing any work. CSXT reserves the right to require additional drainage or grading modifications if as-built conditions do not address drainage and erosion in a manner satisfactory to CSXT.

- Construction Schedule – Within 30 days of the pre-construction meeting, Contractor shall submit a detailed construction schedule for the duration of the project clearly indicating the time periods while working on and around CSXT right-of-way. As the work progresses, this schedule shall be updated and resubmitted as necessary to reflect changes in work sequence, duration and method, etc.

- Insurance – Submit all necessary insurance information in accordance with the current CSXT Insurance Requirements for approval. The Certificate of Insurance shall be prepared in keeping with the sample included in Exhibit A of this document. The complete original policies should be submitted to:

insurancedocuments@csx.com

with a copy to the CMR. The insurance policies will be required to be in place and approved prior to any work commencing on or that could potentially impact CSXT right-of-way. As information for use in obtaining the required CSXT insurance, please note that CSXT operates approximately one (1) total freight train per week at a maximum authorized speed of ten (10) mph at the project location.

- Emergency Action Plan – Submit an emergency action plan indicating the location of the site, contact numbers, access to the site, instructions for emergency response and location of the nearest hospitals. This plan should cover all items required in the event of an emergency at the site including fire suppression. Coordinate the Emergency Action Plan with the safety related discussion of the Means and Methods submission discussed above. The plan should also include a method to provide this information to each project worker for each day on site.

- CSXT Emergency Number:** The CSXT telephone number for emergencies is 800-232-0144. Reference the CSXT Milepost and DOT # for the project, as shown in the subject project description above, when calling.
- No stormwater from the project may discharge onto the CSXT right-of-way at any time during construction.
- The Contractor must not use CSXT right-of-way for storage of materials or equipment during construction. The CSXT right-of-way must remain clear for railroad use at all times. Equipment may not be positioned to block the railroad access road, track area or any part of the CSXT right-of-way without prior CSXT approval.
- No temporary or permanent reductions to the existing horizontal clearances shall be permitted without prior CSXT approval. All Contractor work shall be performed in strict compliance with CSXT clearance requirements.
- The Contractor will be required to abide by the provisions of the City/CSXT Construction Agreement. Periodically, throughout the project duration, the Contractor will be required to meet, discuss and, if necessary, take immediate action at the discretion of CSXT personnel and/or the CMR to comply with provisions of that agreement and these specifications.
- The Contractor shall not remove any existing CSXT owned material (including, but not limited to, soil, stone, communications and signals device components, and drainage facilities) from CSXT right-of-way without prior authorization from CSXT. In the event that such material cannot be relocated within CSXT's right-of-way in a manner satisfactory to CSXT, the material shall be properly tested by CSXT for contamination and disposed of in accordance with the CSX disposal policy. All costs associated with testing, coordination and/or disposal will be charged to the project. Initial environmental related requests should be made with the CMR at least thirty (30) days in advance.

Subject: Winchester, Virginia – Proposed elimination of the Papermill Road (DOT # 139 454 M) and Tevis Street (DOT # 139 455 U) at-grade crossings with CSXT at Mileposts BAD-33.91 & 34.12; and construction of the new Hope Drive at-grade crossing (DOT# 938 231 C) with CSXT at Milepost BAD-33.98; Baltimore Zone, Shenandoah Subdivision; VDOT UPC 104266; CSXT OP # VA0466

- This project will require use of CSXT Flagmen to protect train operations from project activity in the area of the tracks. While CSXT cannot guarantee the availability of flagmen at all requested times, every accommodation will be extended to the Contractor when forces are available. Flagging requests should be made to CSXT Roadmaster Curtis Black, at telephone (724)-757-5228 at least thirty (30) days in advance. Termination or cancellation of a flagman requires ten (10) days notice to avoid incurring costs.

- All equipment operations that could potentially impact CSXT right-of-way must be coordinated with the CSXT Flagman.

- Prior to starting work on, under or adjacent to CSXT right of way, the Contractor shall execute Schedule I (Contractor's Acceptance) which is part of the Construction Agreement to be executed between the City and CSXT

- Contractor access will be limited to the immediate project area only. The CSXT right-of-way may not be used for contractor access to the project site and no temporary at-grade crossings will be allowed.

- City and/or its contractor shall be responsible for the maintenance of vehicular traffic, detouring, and full crossing/roadway closures during the necessary crossing work by CSXT forces.

- The Contractor shall not travel along the CSXT right of way between the at-grade crossing sites as a means of site circulation during construction. Access to the CSXT right of way shall be limited to the immediate vicinity of the work being performed.

- The Contractor's use of the existing and proposed at-grade crossings as a means of access and movement within the site, shall only be permitted when the warning devices for the crossing being used are in place and fully operational, or the crossing is under the protection of a railroad flagman.

- When the Papermill Road and Tevis Street at-grade crossings are closed to the public, the contractor shall install a lockable barricade a minimum of 25' from centerline of track on both sides of the track to prevent unauthorized access to the at-grade crossing. CSXT shall be the sole owner of the lock and key to this barricade. The barricade may be removed when the crossing, and its warning devices have been removed, and the roadway work is sufficiently progressed that no errant drivers or pedestrians will approach the closed crossing (i.e. the roadway approach is removed, and the new roadway is sufficiently complete). CSXT shall have sole authority regarding when the barricade may be removed.

- The contractor shall coordinate markout of all public and private utilities, as well as CSXT communications and signal wires prior to performing any subsurface work within the CSXT right of way.

- The Contractor shall be required to provide verification that all underground utilities have been located and marked out in accordance with local and state ordinances before any excavation is progressed on/about CSXT property.

- The Contractor shall not perform any work on CSXT property until CSXT has provided written confirmation that all CSXT underground facilities have been located and marked. CSXT mark out shall be coordinated through CSXT's Construction Monitoring Representative.

- The Contractor shall follow the CSXT Design and Construction Standard Specifications Pipeline Occupancies document for the construction of the 72" pipe under the railroad.

Subject: Winchester, Virginia – Proposed elimination of the Papermill Road (DOT # 139 454 M) and Tevis Street (DOT # 139 455 U) at-grade crossings with CSXT at Mileposts BAD-33.91 & 34.12; and construction of the new Hope Drive at-grade crossing (DOT# 938 231 C) with CSXT at Milepost BAD-33.98; Baltimore Zone, Shenandoah Subdivision; VDOT UPC 104266; CSXT OP # VA0466

Exhibit A

Project insurances shall be submitted in accordance with Section 4.e of these Construction Requirements, and the below provided sample certificate.

CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF LIABILITY INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement or a statement on this certificate does not confer rights to the certificate holder in lieu of such endorsements.

PRODUCER Name & Address of Producer	Phone: Fax:	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: PRODUCER CUSTOMER ID #:	INSURER(S) AFFORDING COVERAGE INSURER A: AM Best Rating A-, Or Better provide INSURER B: AM Best Rating A-, Or Better provide INSURER C: AM Best Rating A-, Or Better provide INSURER D: AM Best Rating A-, Or Better provide
INSURED Name & Address of Insured	CERTIFICATE NUMBER	REVISION NUMBER	NAIC #
COVERAGES			
THIS IS TO CERTIFY THAT THE POLICIES OF LIABILITY INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CO-INSURANCE OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.			
INSR	TYPE OF INSURANCE	ADD. SUBR	POLICY NUMBER
A	GENERAL LIABILITY		
	COMMERCIAL GENERAL LIABILITY		EACH OCCURRENCE \$5,000,000
	CLAIMS MADE		
	GENERAL AGG. LIABILITY APPLIES PER POLICY		
	AUTOMOBILE LIABILITY		
	ANY AUTO		
	ALL OWNED AUTOS		
	SCHEDULED AUTOS		
	HIRED AUTOS		
	NON-OWNED AUTOS		
	CA 2070		
	UMBRELLA FORM		
	EXCESS LIMIT		
	REDUCTIBLE		
	RETENTION		
	WORKERS COMPENSATION AND EMPLOYERS LIABILITY		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?		
	(Mandatory in NH)		
	If yes, describe:		
	DESCRIPTION OF OPERATIONS below		
	Railroad Protective Coverage Each Occurrence		\$5,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES CSX Transportation is listed as an Additional Insured			
CERTIFICATE HOLDER CSX Transportation Insurance Compliance 500 Water Street, Speed Code J-907 Jacksonville, FL 32202 RanawalCOI@CSX.com			
CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.			
AUTHORIZED REPRESENTATIVE Certificate Must be Signed			

PROJECT MANAGER *Becry, Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew, Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

SEQUENCE OF CONSTRUCTION

John A. Giometti
2020.04.24 09:28:35-04'00'
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	I/J(1)

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

TRAFFIC CONTROL PLAN - PHASE 1

WORK ZONE ACTIVITIES

1. PRIOR TO INITIATING ANY WORK, INSTALL THE ADVANCE PROJECT LIMITS SIGNS (ROAD WORK AHEAD & END ROAD WORK) (TTC-53.0) PER THE TRAFFIC CONTROL PLAN (TCP).
2. CONTRACTOR TO SETUP USING THE VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TEMPORARY TRAFFIC CONTROL (TTC) TYPICAL APPLICATIONS, AS APPROPRIATE, DURING EACH WORK PERIOD.
3. WHEN EXISTING PAVEMENT MARKINGS ARE IMPACTED BY THE M&O OPERATION, CONFLICTING PAVEMENT MARKINGS SHALL BE ERADICATED AND TEMPORARY PAVEMENT MARKINGS (TYPE D, CLASS III) SHALL BE INSTALLED IN THE NECESSARY LOCATIONS.
4. THROUGHOUT THE MILLING & OVERLAY/ BUILD-UP OPERATION, 6" WEDGE DROP-OFF CONDITIONS SHALL COMPLY.
5. CONTRACTOR TO MAINTAIN ACCESS TO ALL ADJACENT PARCELS DURING CONSTRUCTION.
6. CONTRACTOR TO SEQUENCE CONSTRUCTION TO AVOID ACTIVE WORK ZONES SIMULTANEOUSLY OCCURRING ON LEFT AND RIGHT SIDE OF TRAFFIC.

CONSTRUCTION ZONE ACTIVITIES:

1. INSTALL EROSION & SEDIMENT CONTROL MEASURES, AS NECESSARY.
2. INSTALL GROUP 2 CHANNELIZING DEVICES AND APPROPRIATE SIGNAGE ALONG HOPE DRIVE AND PAPERMILL ROAD.
3. CONSTRUCT CURB & GUTTER, SIDEWALK, SHARED USE PATH, STORM SEWER, WATER, SANITARY SEWER AND MEDIAN ALONG NEW ALIGNMENT PORTIONS OF HOPE DRIVE, PAPERMILL ROAD, AND ROOSEVELT BOULEVARD.
4. INSTALL NEW SIGNAL EQUIPMENT AT HOPE DRIVE / PAPERMILL ROAD INTERSECTION.
5. INSTALL PERMANENT PAVEMENT (LESS SURFACE COURSE) ON ALL NEW ALIGNMENT PORTIONS OF HOPE DRIVE, PAPERMILL ROAD, AND ROOSEVELT BOULEVARD.

TRAFFIC CONTROL PLAN - PHASE 2

WORK ZONE ACTIVITIES

1. MAINTAIN APPROPRIATE ADVANCE PROJECT LIMIT SIGNS (ROAD WORK AHEAD & END ROAD WORK), WORK ZONE SIGNS, AND TEMPORARY PAVEMENT MARKINGS.
2. USE A VARIETY OF VWAPM TEMPORARY TRAFFIC CONTROL (TTC) TYPICAL APPLICATIONS, AS APPROPRIATE, TO SETUP LANE / SHOULDER CLOSURES IN ORDER TO CONSTRUCT THE IMPROVEMENTS (PAVEMENT WIDENING, SIDEWALK, STORM SEWER, ASSOCIATED GRADING, ETC.) PER THE VWAPM.
3. WHEN EXISTING PAVEMENT MARKINGS ARE IMPACTED BY THE M&O OPERATION, CONFLICTING PAVEMENT MARKINGS SHALL BE ERADICATED AND TEMPORARY PAVEMENT MARKINGS (TYPE D, CLASS III) SHALL BE INSTALLED IN THE NECESSARY LOCATIONS.
4. THE CLOSURE/DETOUR OF EXISTING SIDEWALKS TO UTILIZE TTC-35J, CONTRACTOR TO DISCUSS WITH THE CITY OF WINCHESTER PRIOR TO IMPLEMENTATION.
5. THE CLOSURE/DETOUR OF THE PORTION OF EXISTING HOPE DRIVE TO UTILIZE TTC-34.2 (SEE SHEET IJ15), CONTRACTOR TO NOTIFY THE CITY OF WINCHESTER, PUBLIC WORKS DEPT. TWO WEEKS PRIOR TO CLOSURE. THIS CLOSURE MUST BE REOPENED WITHIN 60 DAYS.
6. CONTRACTOR TO MAINTAIN ACCESS TO ALL ADJACENT PARCELS DURING CONSTRUCTION.
7. CONTRACTOR TO SEQUENCE CONSTRUCTION TO AVOID ACTIVE WORK ZONES SIMULTANEOUSLY OCCURRING ON LEFT AND RIGHT SIDE OF TRAFFIC.

CONSTRUCTION ZONE ACTIVITIES:

1. ACTIVATE PHASE 2 TEMPORARY SIGNAL MODIFICATIONS AT THE HOPE DRIVE AND VALLEY AVENUE INTERSECTION.
2. INSTALL EROSION & SEDIMENT CONTROL MEASURES, AS NECESSARY.
3. INSTALL GROUP 2 CHANNELIZING DEVICES AND APPROPRIATE SIGNAGE ALONG HOPE DRIVE AND PAPERMILL ROAD.
4. CONSTRUCT WIDENING PORTIONS OF EXISTING HOPE DRIVE AND PAPERMILL ROAD INCLUDING CURB & GUTTER, SIDEWALK, SHARED USE PATH, STORM SEWER, WATER AND SANITARY SEWER AS NECESSARY.
5. INSTALL PERMANENT PAVEMENT (LESS SURFACE COURSE) ON ALL NEW ALIGNMENT PORTIONS OF HOPE DRIVE AND PAPERMILL ROAD.
6. INSTALL TEMPORARY PAVEMENT MARKINGS TO BE USED IN THE FOLLOWING PHASE.
7. INSTALL NEW RAILROAD CROSSING ALONG HOPE DRIVE (CSX WORK).

TRAFFIC CONTROL PLAN - PHASE 3

WORK ZONE ACTIVITIES

1. MAINTAIN APPROPRIATE ADVANCE PROJECT LIMIT SIGNS (ROAD WORK AHEAD & END ROAD WORK), WORK ZONE SIGNS, AND TEMPORARY PAVEMENT MARKINGS.
2. USE A VARIETY OF VWAPM TEMPORARY TRAFFIC CONTROL (TTC) TYPICAL APPLICATIONS, AS APPROPRIATE, TO SETUP LANE / SHOULDER CLOSURES IN ORDER TO CONSTRUCT THE IMPROVEMENTS (PAVEMENT WIDENING, SIDEWALK, STORM SEWER, ASSOCIATED GRADING, ETC.) PER THE VWAPM.
3. WHEN EXISTING PAVEMENT MARKINGS ARE IMPACTED BY THE M&O OPERATION, CONFLICTING PAVEMENT MARKINGS SHALL BE ERADICATED AND TEMPORARY PAVEMENT MARKINGS (TYPE D, CLASS III) SHALL BE INSTALLED IN THE NECESSARY LOCATIONS.
4. THE CLOSURE/DETOUR OF EXISTING SIDEWALKS TO UTILIZE TTC-35J, CONTRACTOR TO DISCUSS WITH THE CITY OF WINCHESTER PRIOR TO IMPLEMENTATION.
5. CONTRACTOR TO MAINTAIN ACCESS TO ALL ADJACENT PARCELS DURING CONSTRUCTION.
6. CONTRACTOR TO SEQUENCE CONSTRUCTION TO AVOID ACTIVE WORK ZONES SIMULTANEOUSLY OCCURRING ON LEFT AND RIGHT SIDE OF TRAFFIC.

CONSTRUCTION ZONE ACTIVITIES:

1. ACTIVATE PHASE 3 TEMPORARY SIGNAL MODIFICATIONS AT THE INTERSECTION OF HOPE DRIVE AND VALLEY AVENUE.
2. INSTALL EROSION & SEDIMENT CONTROL MEASURES, AS NECESSARY.
3. INSTALL GROUP 2 CHANNELIZING DEVICES AND APPROPRIATE SIGNAGE ALONG HOPE DRIVE, PAPERMILL ROAD AND ROOSEVELT BLVD.
4. CONSTRUCT WIDENING PORTIONS OF EXISTING HOPE DRIVE AND PAPERMILL ROAD INCLUDING CURB & GUTTER, SIDEWALK, SHARED USE PATH, STORM SEWER, WATER AND SANITARY SEWER AS NECESSARY.
5. INSTALL PERMANENT PAVEMENT (LESS SURFACE COURSE) ALONG HOPE DRIVE, PAPERMILL ROAD AND ROOSEVELT BLVD.
6. COMPLETE NEW RAILROAD CROSSING ALONG HOPE DRIVE (CSX WORK).
7. INSTALL TEMPORARY PAVEMENT MARKINGS TO BE USED IN THE FOLLOWING PHASE.

TRAFFIC CONTROL PLAN - PHASE 4

WORK ZONE ACTIVITIES:

1. MAINTAIN ADVANCE PROJECT LIMIT SIGNS (ROAD WORK AHEAD & END ROAD WORK), TEMPORARY SPEED REDUCTION SIGNS, AND TEMPORARY PAVEMENT MARKINGS.
2. AS A FIRST ORDER OF BUSINESS IN PHASE 4, USE THE VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) TTC-48.2 TO CLOSE THE PORTION OF EXISTING TEVIS STREET AND PAPERMILL ROAD IN ORDER TO DIRECT TRAFFIC ON TO NEW ALIGNMENT OF HOPE DRIVE.
3. THE CONSTRUCTION OF PERMANENT PAVEMENT, MILL & OVERLAY, AND BUILD-UP ON HOPE DRIVE, PAPERMILL ROAD, AND TEVIS STREET SHALL UTILIZE TEMPORARY LANE CLOSURES (TTC-16.2, 17.2, 29.2) TO EXPEDITIOUSLY COMPLETE THE WORK.
4. THE CLOSURE/DETOUR OF EXISTING SIDEWALKS TO UTILIZE TTC-35J, CONTRACTOR TO DISCUSS WITH THE CITY OF WINCHESTER PRIOR TO IMPLEMENTATION.
5. CONTRACTOR TO MAINTAIN ACCESS TO ALL ADJACENT PARCELS DURING CONSTRUCTION.
6. CONTRACTOR TO SEQUENCE CONSTRUCTION TO AVOID ACTIVE WORK ZONES SIMULTANEOUSLY OCCURRING ON LEFT AND RIGHT SIDE OF TRAFFIC.

CONSTRUCTION ACTIVITIES

1. ACTIVATE PHASE 4 FINAL SIGNAL MODIFICATIONS AT THE INTERSECTIONS.
2. INSTALL EROSION & SEDIMENT CONTROL MEASURES, AS NECESSARY.
3. INSTALL GROUP 2 CHANNELIZING DEVICES AND APPROPRIATE SIGNAGE ALONG HOPE DRIVE, PAPERMILL ROAD, AND TEVIS STREET.
4. COMPLETE WIDENING PORTIONS OF EXISTING HOPE DRIVE AND PAPERMILL ROAD INCLUDING CURB & GUTTER, SIDEWALK, SHARED USE PATH, STORM SEWER, WATER AND SANITARY SEWER AS NECESSARY.
5. COMPLETE PERMANENT PAVEMENT & PAVEMENT MARKINGS ALONG THE LENGTH OF THE PROJECT.
6. COMPLETE SWM PONDS AND DEMOLITION OF PORTION OF TEVIS STREET TO CONSTRUCT TUNNELED OUTFALL PIPE (UNDER RAILROAD), PROPOSED OUTFALL CHANNEL AND BOX CULVERTS CROSSING THE COMMERCIAL ENTRANCE NEAR STA. 44+60.
7. REMOVE EXISTING RAILROAD CROSSINGS AT TEVIS STREET AND PAPERMILL ROAD (CSX WORK).

Office Locations
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030

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

www.rinker.com

PROJECT	SHEET NO.
RS14-138-R10	I/J(1)

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

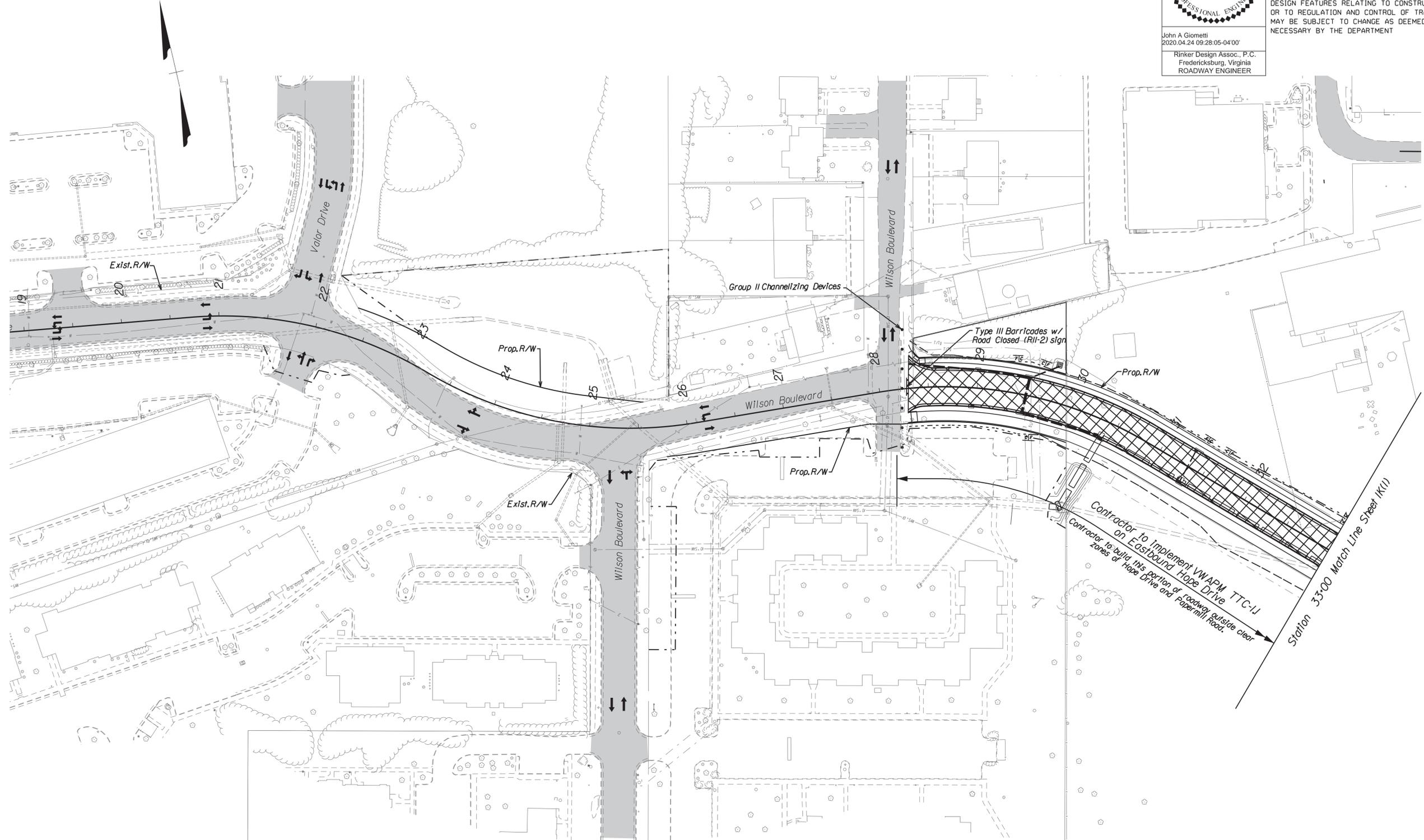
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 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	1K

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

PHASE I TMP/SOC

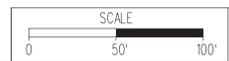
Office Locations
 Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Temporary Traffic Control - Right of Way Services



Suggested TMP/SOC Legend: Phase I

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	SHEET NO.
RS14-138-R10	1K

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew, M.D. - Mid-Atlantic Utility Location (703) 378-0100, August 2014

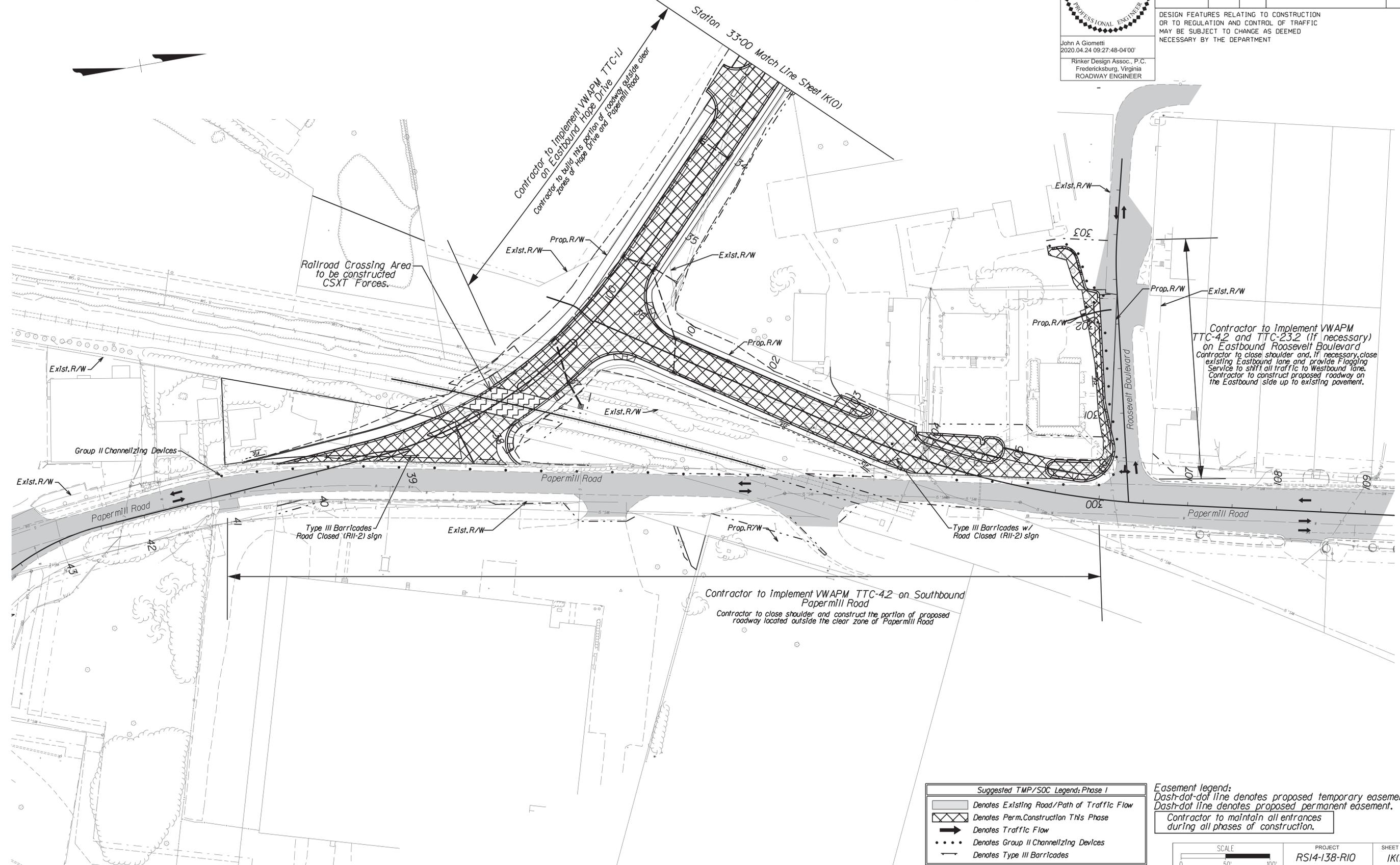
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Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	-	RS14-138-R10- R-201,C-501	1K(1)

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

PHASE I TMP/SOC

Office Locations
 Rinker Design Associates, P.C.
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000



Suggested TMP/SOC Legend: Phase I

- Denotes Existing Road/Path of Traffic Flow
- Denotes Perm. Construction This Phase
- Denotes Traffic Flow
- Denotes Group II Channellizing Devices
- Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE 0 50' 100'

PROJECT RS14-138-R10 SHEET NO. 1K(1)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basile, M.J.D., Atlantic Utility Locating (703) 378-0100, August 2014

JOHN A. GIOMETTI
Lic. No. 032300
PROFESSIONAL ENGINEER

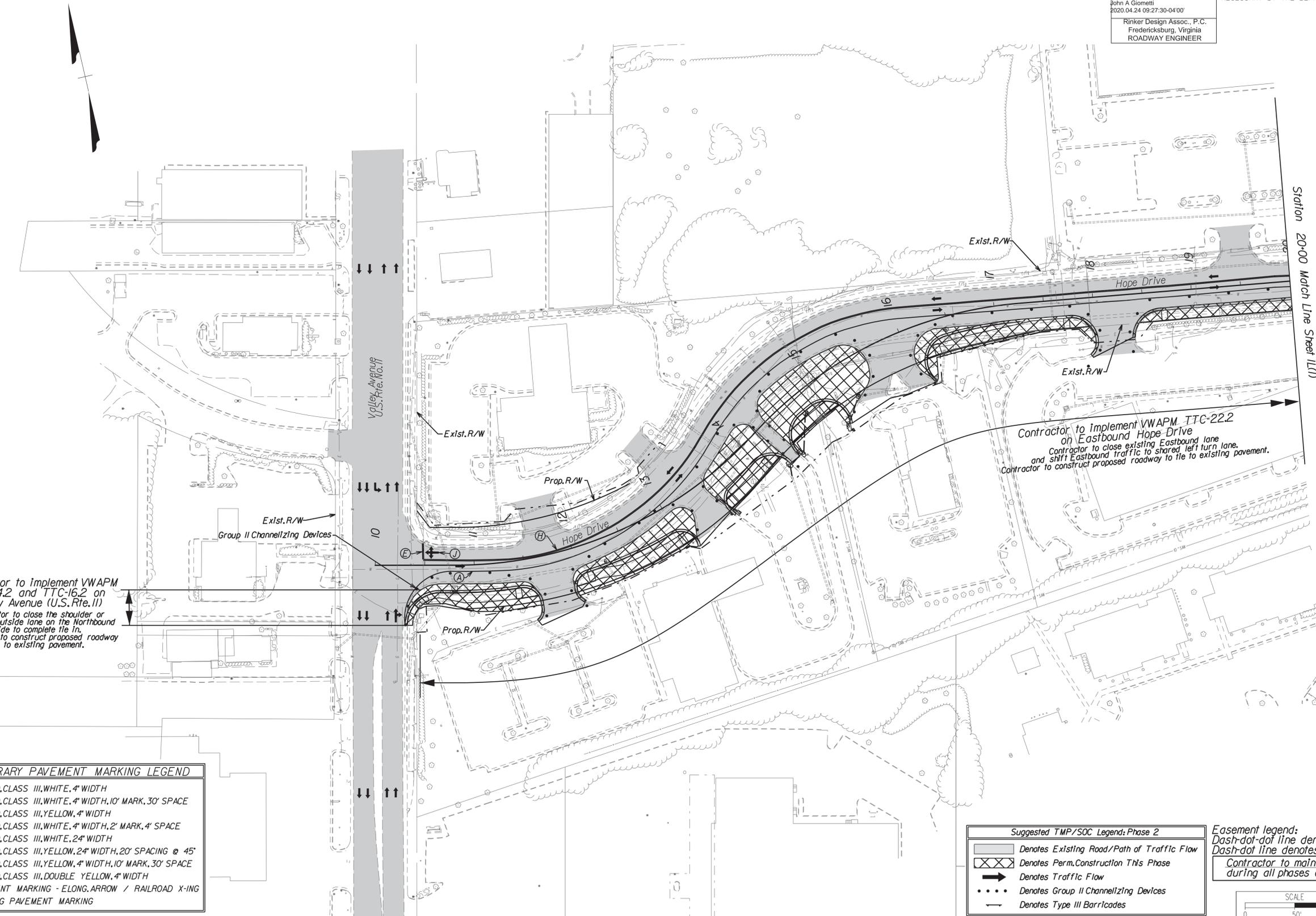
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Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE		PROJECT		SHEET NO.
	ROUTE				
	VA.	-	RS14-138-R10	R-201,C-501	1L

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

PHASE 2 TMP/SOC

Office Locations
 Rinker Design Associates, P.C.
 Land Planning
 Engineering
 Right of Way Services



TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 2

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

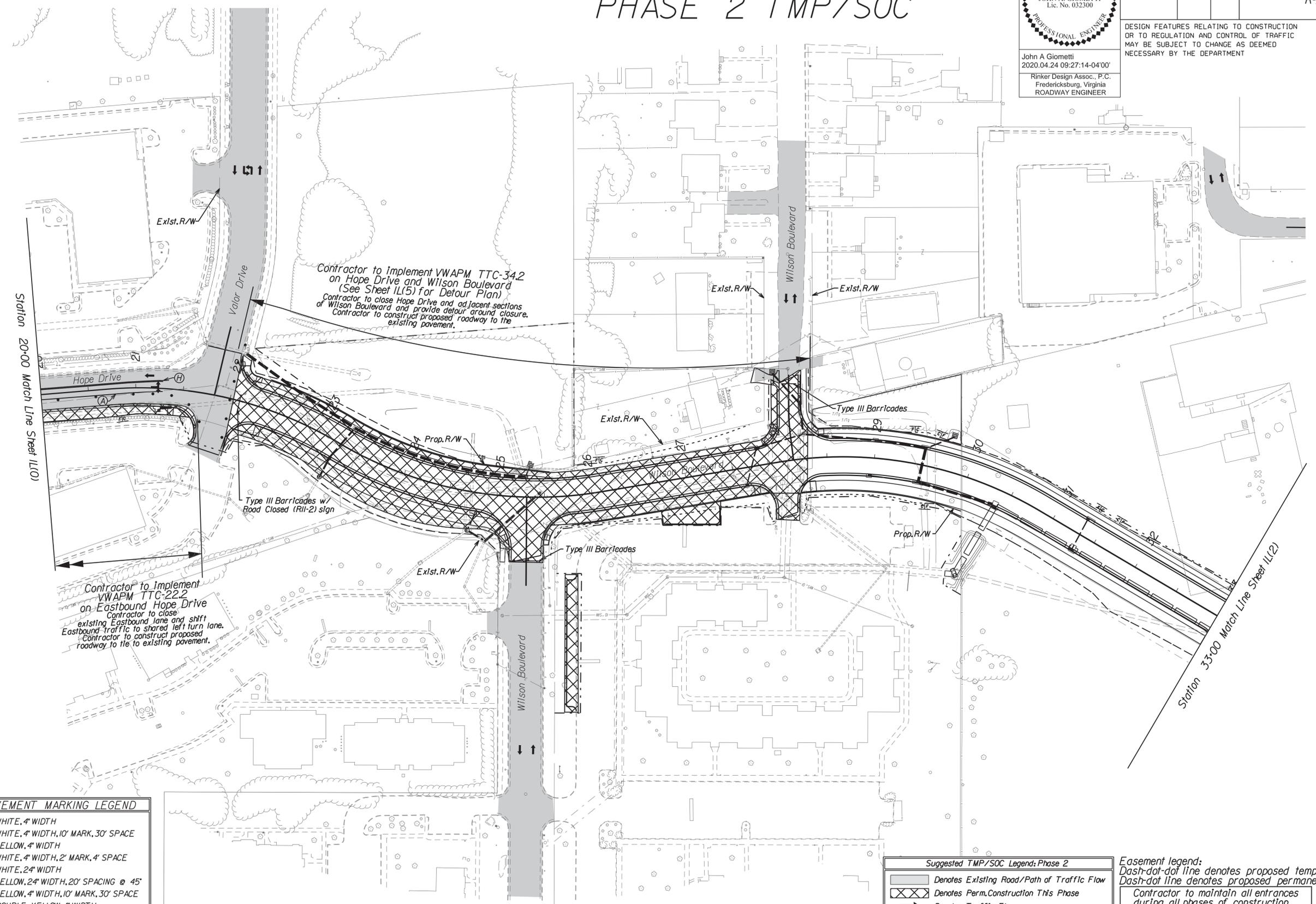
John A. Giometti
2020.04.24 09:27:14-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-RIO- R-201,C-501	1L(1)

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

PHASE 2 TMP/SOC

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



Contractor to implement VWAPM TTC-34.2 on Hope Drive and Wilson Boulevard (See Sheet 1L(5) for Detour Plan)
 Contractor to close Hope Drive and adjacent sections of Wilson Boulevard and provide detour around closure.
 Contractor to construct proposed roadway to the existing pavement.

Contractor to Implement VWAPM TTC-22.2 on Eastbound Hope Drive
 Contractor to close existing Eastbound lane and shift Eastbound traffic to shared left turn lane.
 Contractor to construct proposed roadway to tie to existing pavement.

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2" MARK, 4" SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45'
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(I)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dash line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	SHEET NO.
RS14-138-RIO	1L(1)

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2020.04.24 09:26:59-04'00"

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

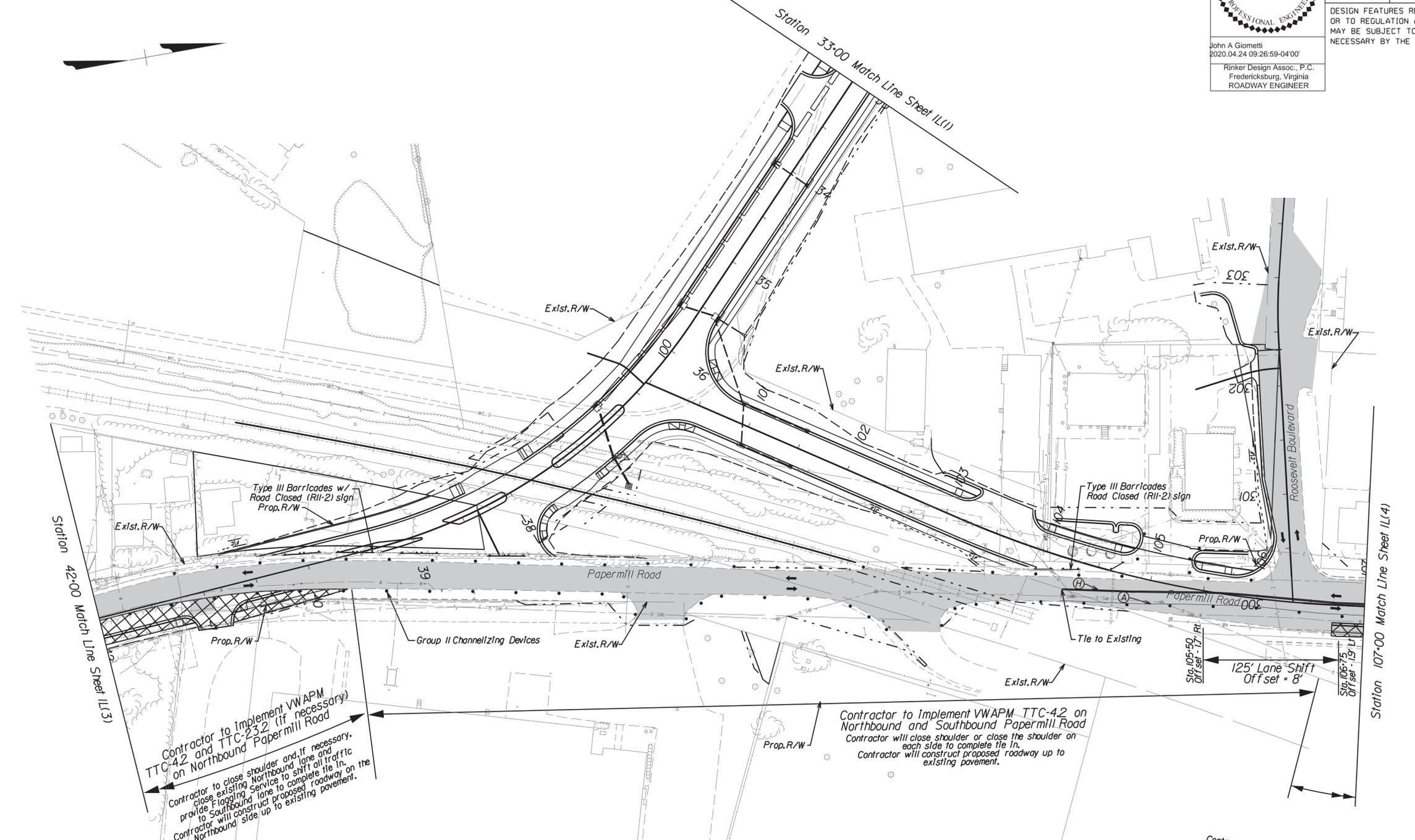
REVISED	STATE		STATE PROJECT		SHEET NO.
	ROUTE				
	VA.	-	RS14-138-R10	R-201,C-501	1L(2)

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.
 Civil Engineering - Surveying - Land Planning
 Transportation - Right of Way Services

Office Locations
 10000 Westpark Drive, Suite 1000
 Fairfax, VA 22031
 703-334-0060
 10000 Westpark Drive, Suite 1000
 Fairfax, VA 22031
 703-334-0060

PHASE 2 TMP/SOC



TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 2 1/2" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 2 1/2" WIDTH, 20' SPACING @ 45'
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 2

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channellizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE 0 50' 100'

PROJECT RS14-138-R10 SHEET NO. 1L(2)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

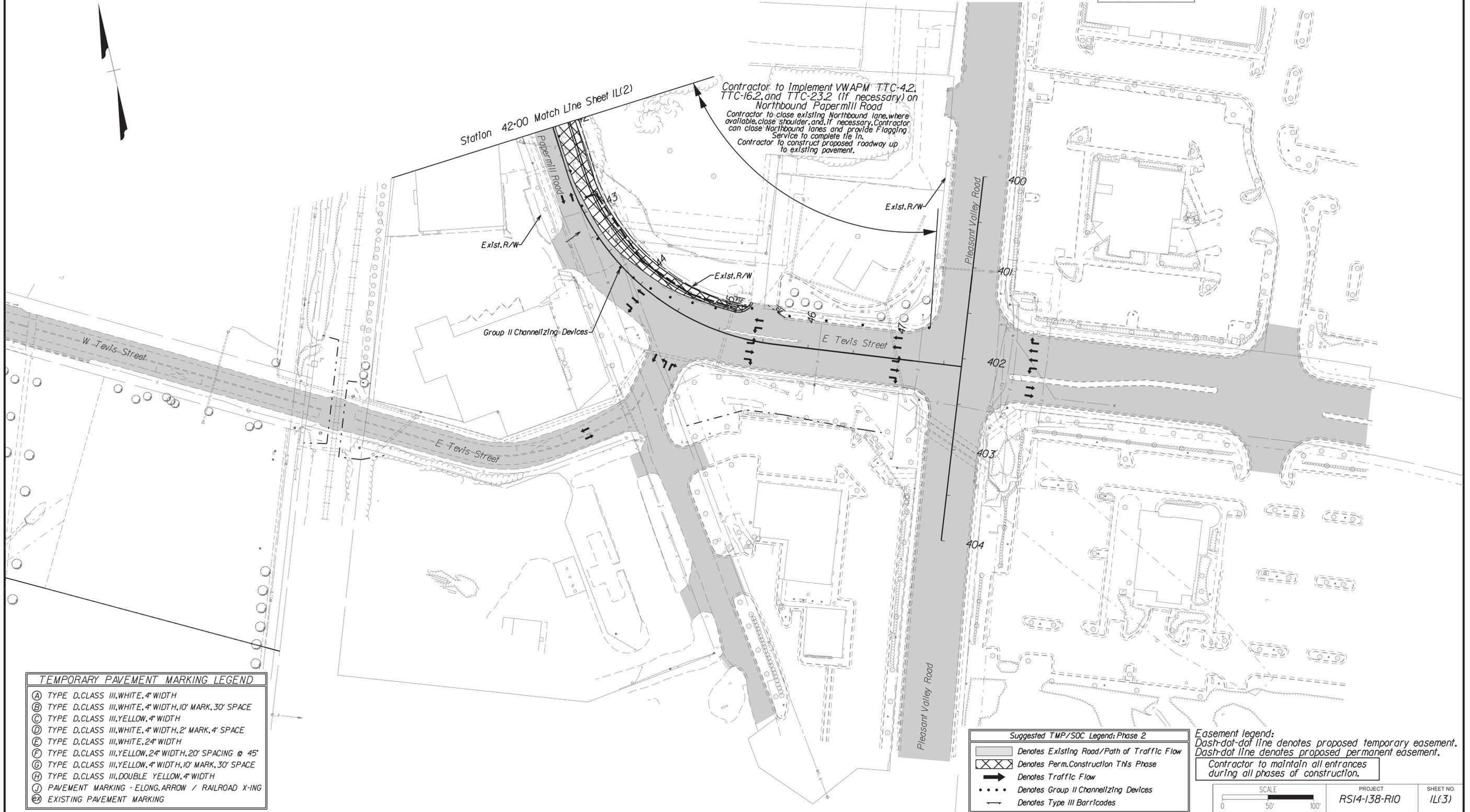
John A. Giometti
 2020.04.24 09:26:43-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE		STATE PROJECT		SHEET NO.
	ROUTE				
	VA.	-	RS14-138-R10	R-201,C-501	1L(3)

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

PHASE 2 TMP/SOC

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



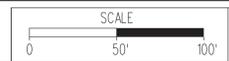
TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 2" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 2" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(I)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 2

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	SHEET NO.
RS14-138-R10	1L(3)

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

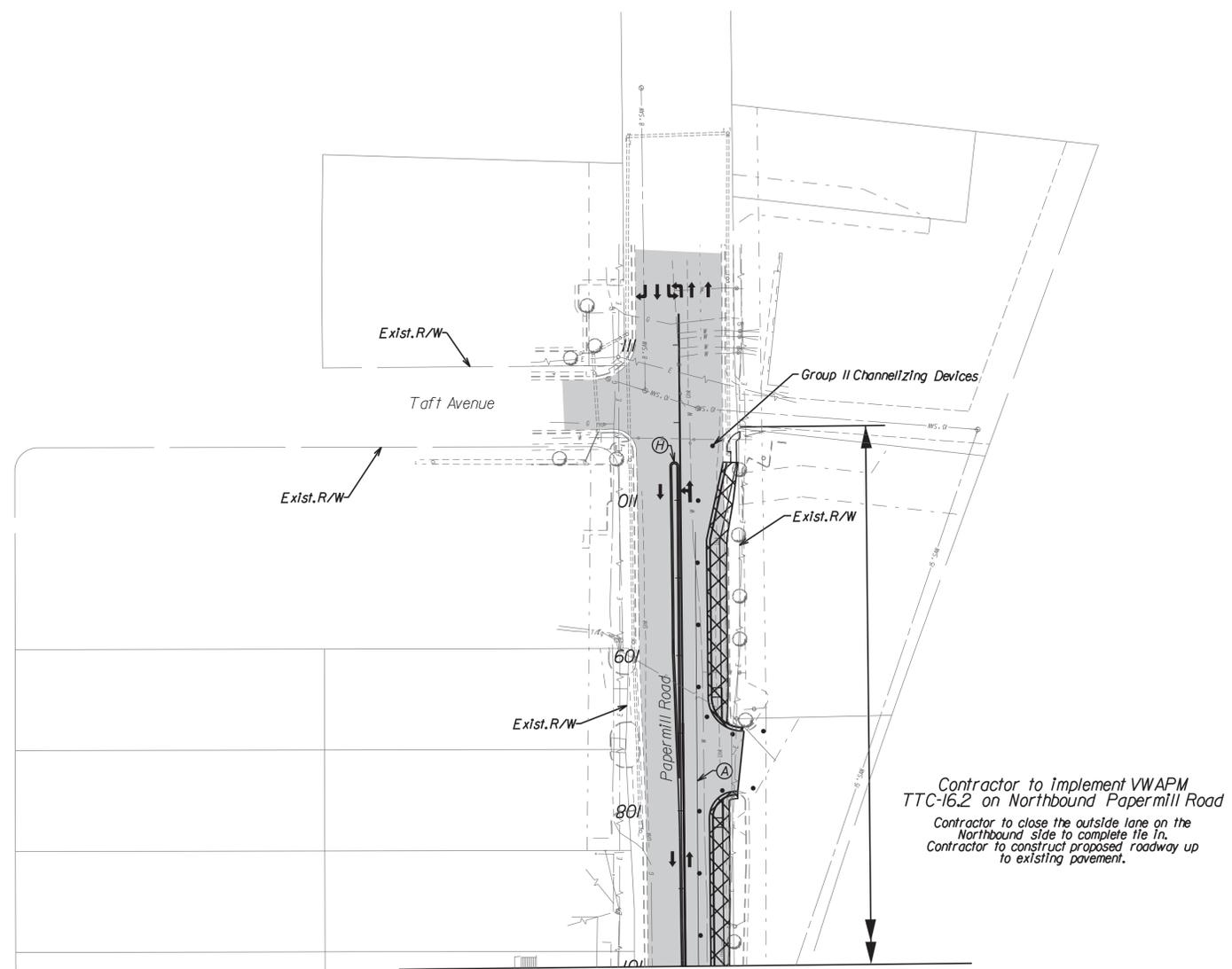
PHASE 2 TMP/SOC

John A. Giometti
2020.04.24 09:26:25-04'00'
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10 R-201,C-501	1L(4)

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

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



Contractor to implement VWAPM TTC-16.2 on Northbound Papermill Road
 Contractor to close the outside lane on the Northbound side to complete the in.
 Contractor to construct proposed roadway up to existing pavement.

Station 107+00 Match Line Sheet 1L(2)

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2" MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 2 1/2" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 2 1/2" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

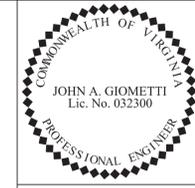
Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT: RS14-138-R10

SHEET NO.: 1L(4)

PROJECT MANAGER *Ecory, Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew, Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*



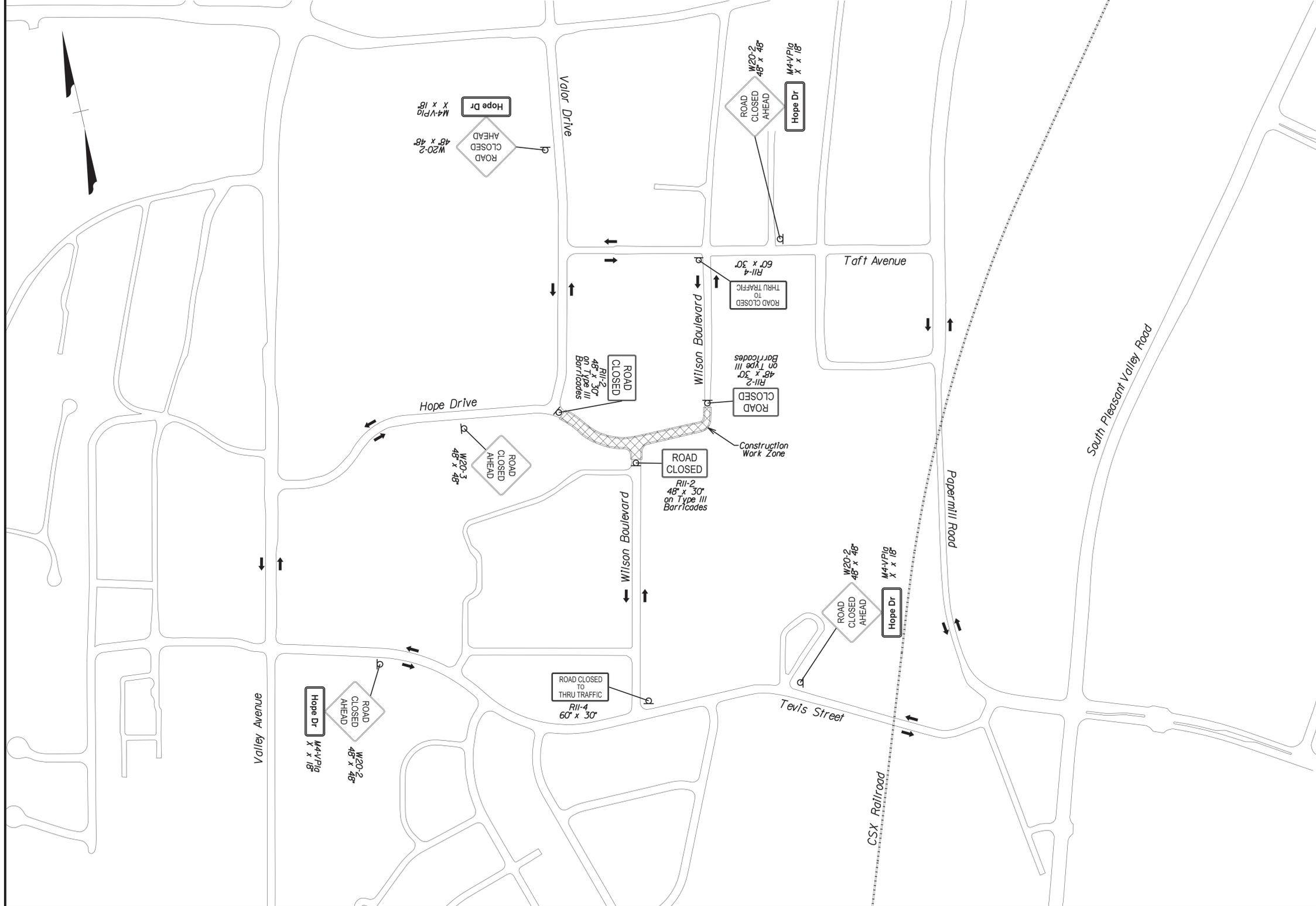
John A. Giometti
2020.04.24 09:26:07-0400

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

REVISED	STATE	STATE PROJECT		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10 R-201,C-501	1L(5)

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

Hope Drive Detour Plan



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

Office Locations
 10000 Westpark Drive, Suite 1000, Dallas, TX 75241
 10000 Westpark Drive, Suite 1000, Dallas, TX 75241
 10000 Westpark Drive, Suite 1000, Dallas, TX 75241

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basile, M.J.D., Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

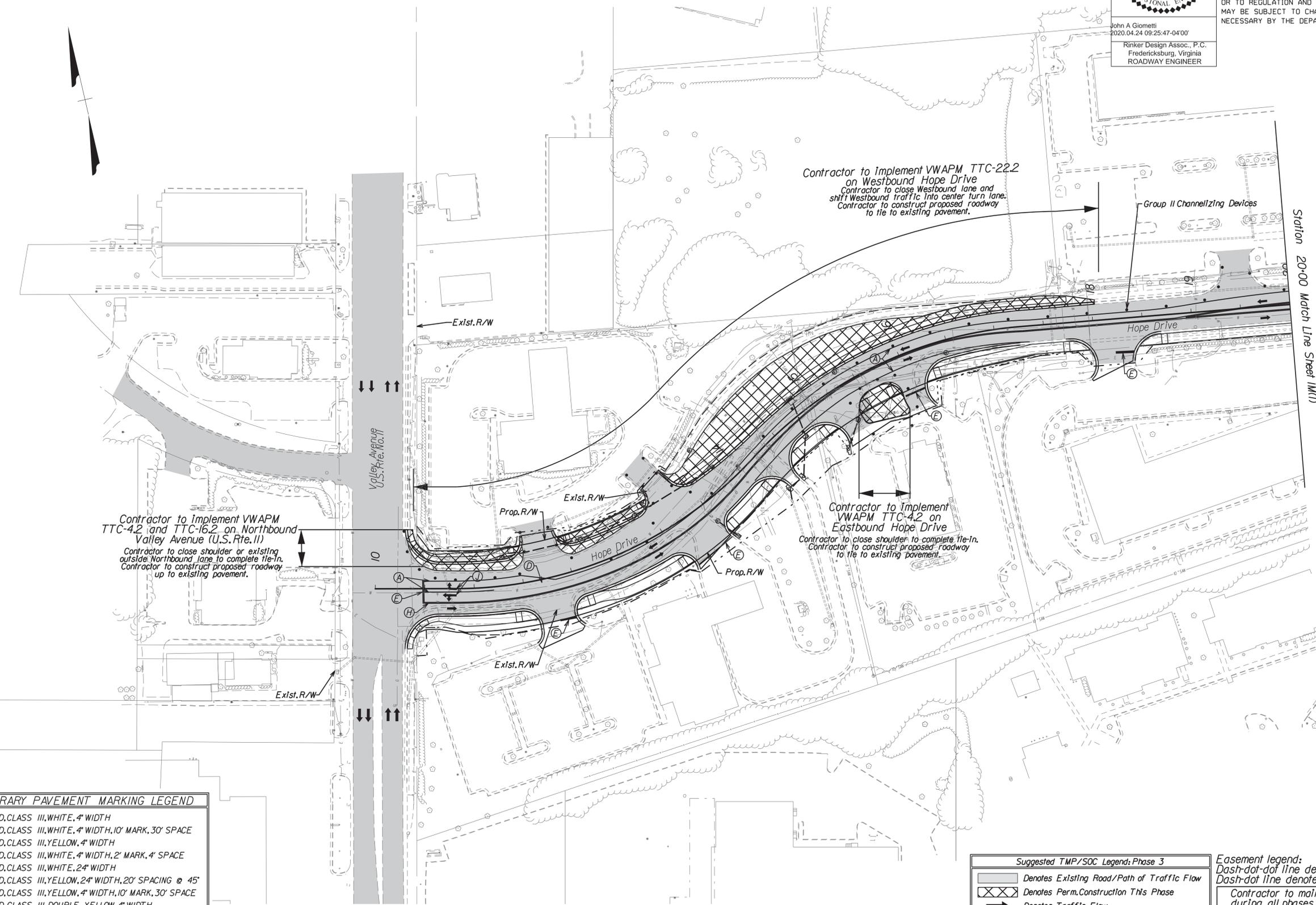
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 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	1M

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

PHASE 3 TMP/SOC

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



TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(I)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 3

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.

Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT: RS14-138-R10

SHEET NO.: 1M

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Baker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

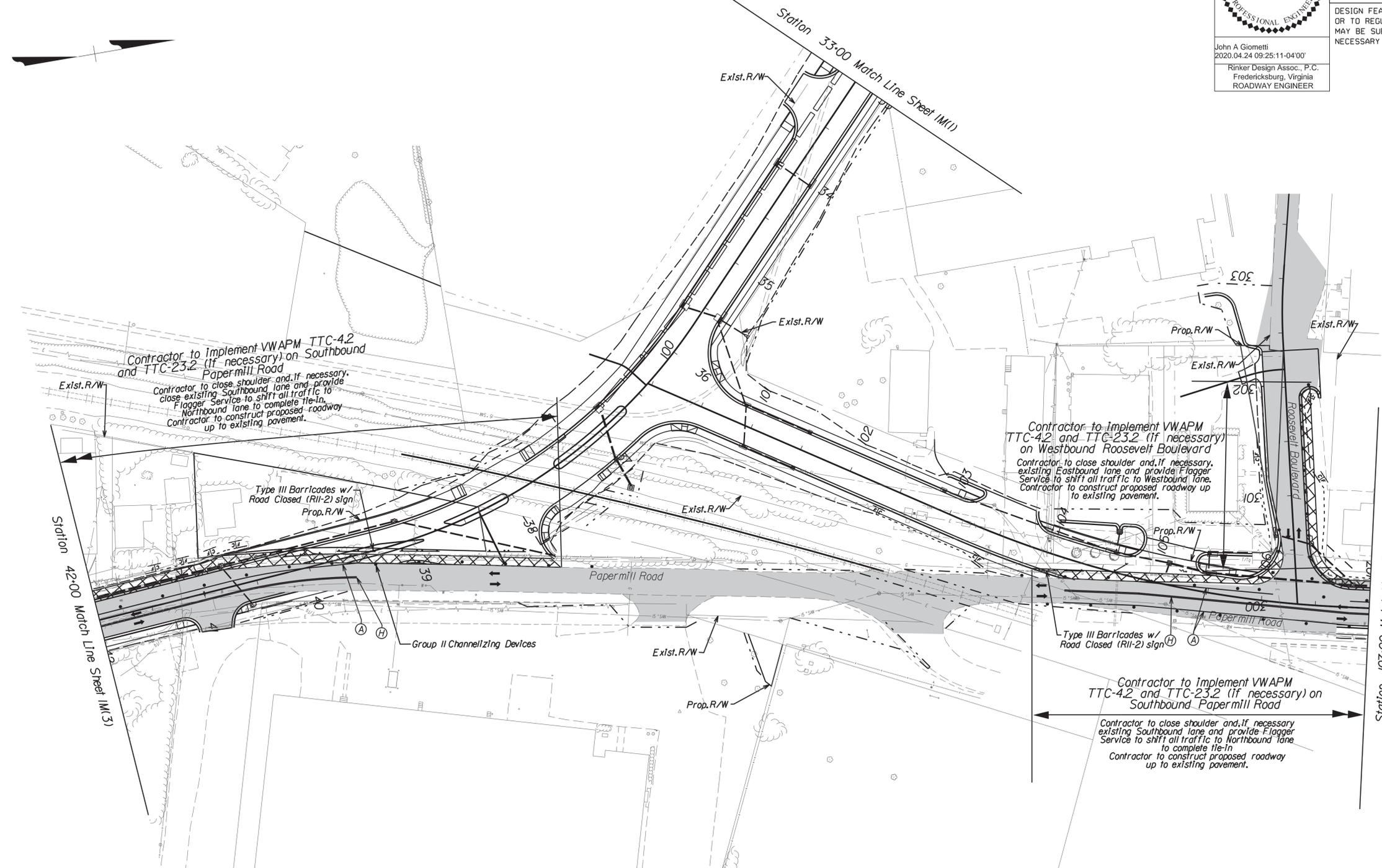
John A. Giometti
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 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	IM(2)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-412-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-412-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-412-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-412-1000

PHASE 3 TMP/SOC



TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2" MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 2" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45'
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-MARK
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 3

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT: RS14-138-R10

SHEET NO.: IM(2)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew, MJD Atlantic Utility Locating (703) 378-0100, August 2014

PHASE 3 TMP/SOC

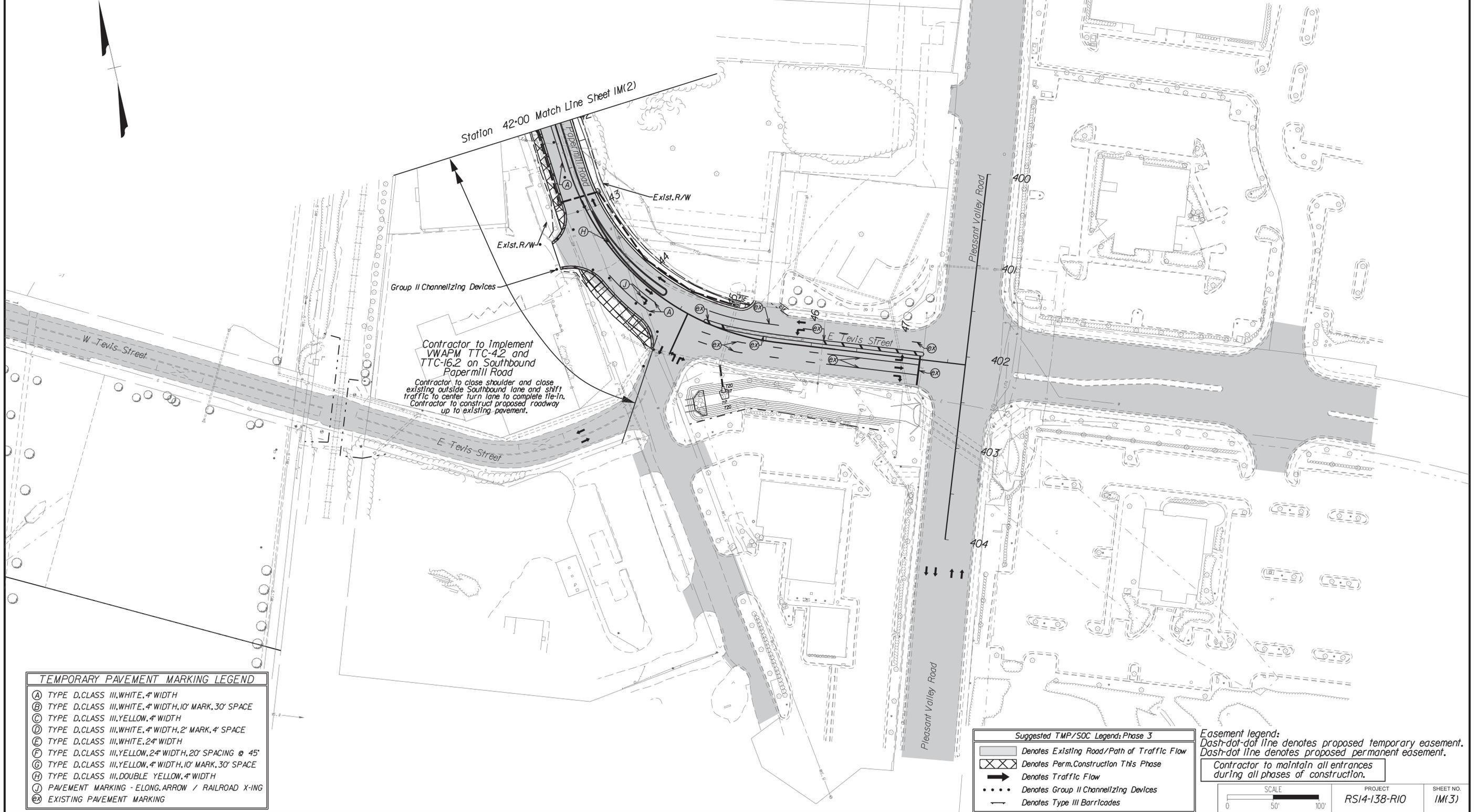
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2020.04.24 09:24:51-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	-	RS14-138-R10-R-201,C-501	IM(3)

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

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



Station 42+00 Match Line Sheet IM(2)

Contractor to implement VWAPM TTC-4.2 and TTC-16.2 on Southbound Papermill Road
 Contractor to close shoulder and close existing outside Southbound lane and shift traffic to center turn lane to complete tie-in.
 Contractor to construct proposed roadway up to existing pavement.

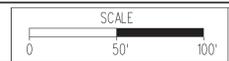
TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 2" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 2" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(EX)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 3

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	SHEET NO.
RS14-138-R10	IM(3)

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

PHASE 3 TMP/SOC

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

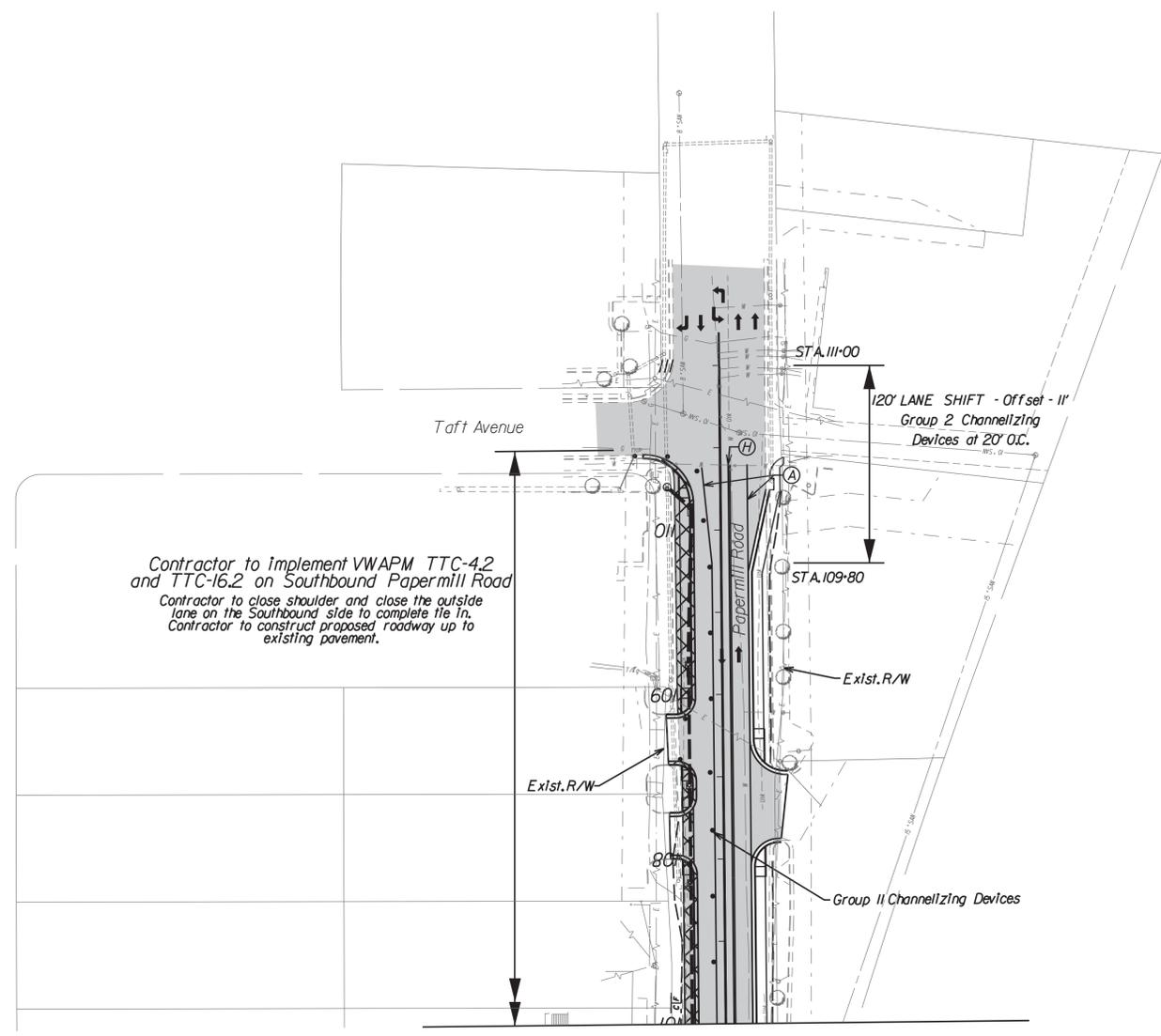
John A. Giometti
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Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10 R-201,C-501	IM(4)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Fredericksburg, VA 22409
 (703) 334-0060
 www.rinker.com



Station 107+00 Match Line Sheet IM(2)

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2" MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45'
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(I)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	SHEET NO.
RS14-138-R10	IM(4)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basile, M.J.D., Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
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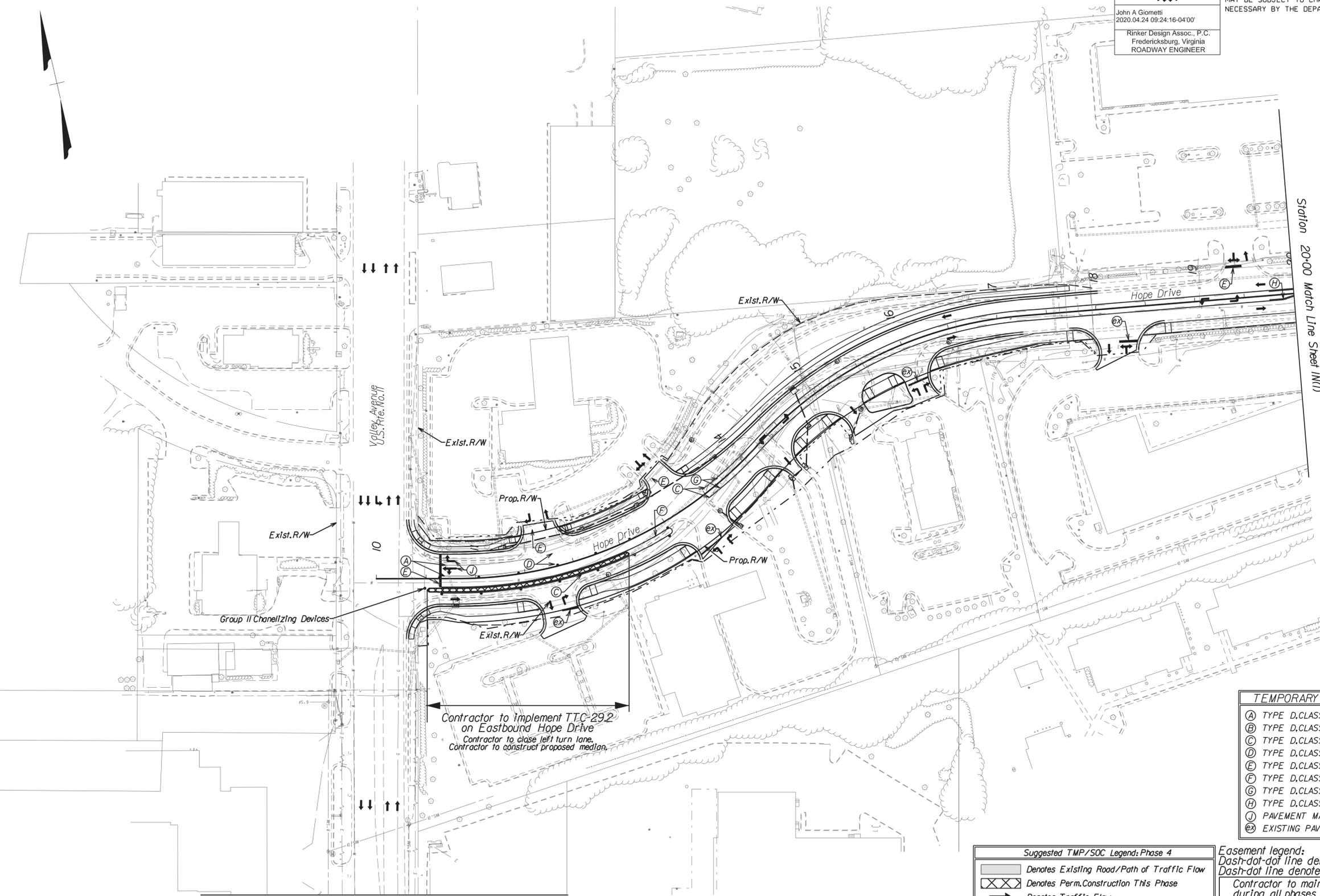
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	IN

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

PHASE 4 TMP/SOC

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



Contractor to Implement TIC-292 on Eastbound Hope Drive
 Contractor to close left turn lane.
 Contractor to construct proposed median.

TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 2 1/2" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 2 1/2" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(EX)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 4

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT	SHEET NO.
RS14-138-R10	IN

Match Line Sheet IN(6)

Station 20+00 Match Line Sheet IN(1)

PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

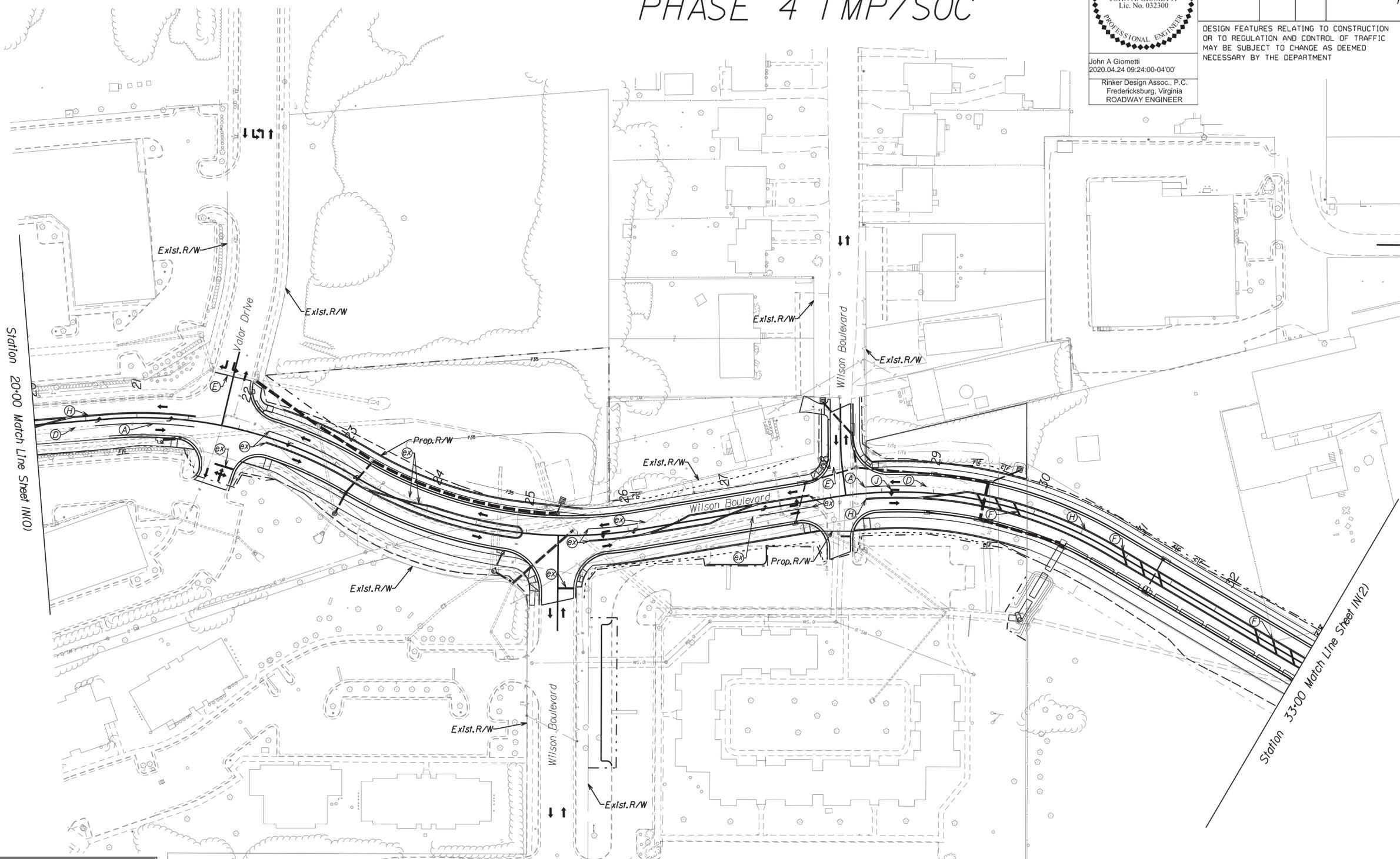
John A. Giometti
 2020.04.24 09:24:00-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	1N(1)

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

PHASE 4 TMP/SOC

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



TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45'
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(I)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(EX)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 4

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT: RS14-138-R10
 SHEET NO.: 1N(1)

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2020.04.24 09:23:38-04'00"

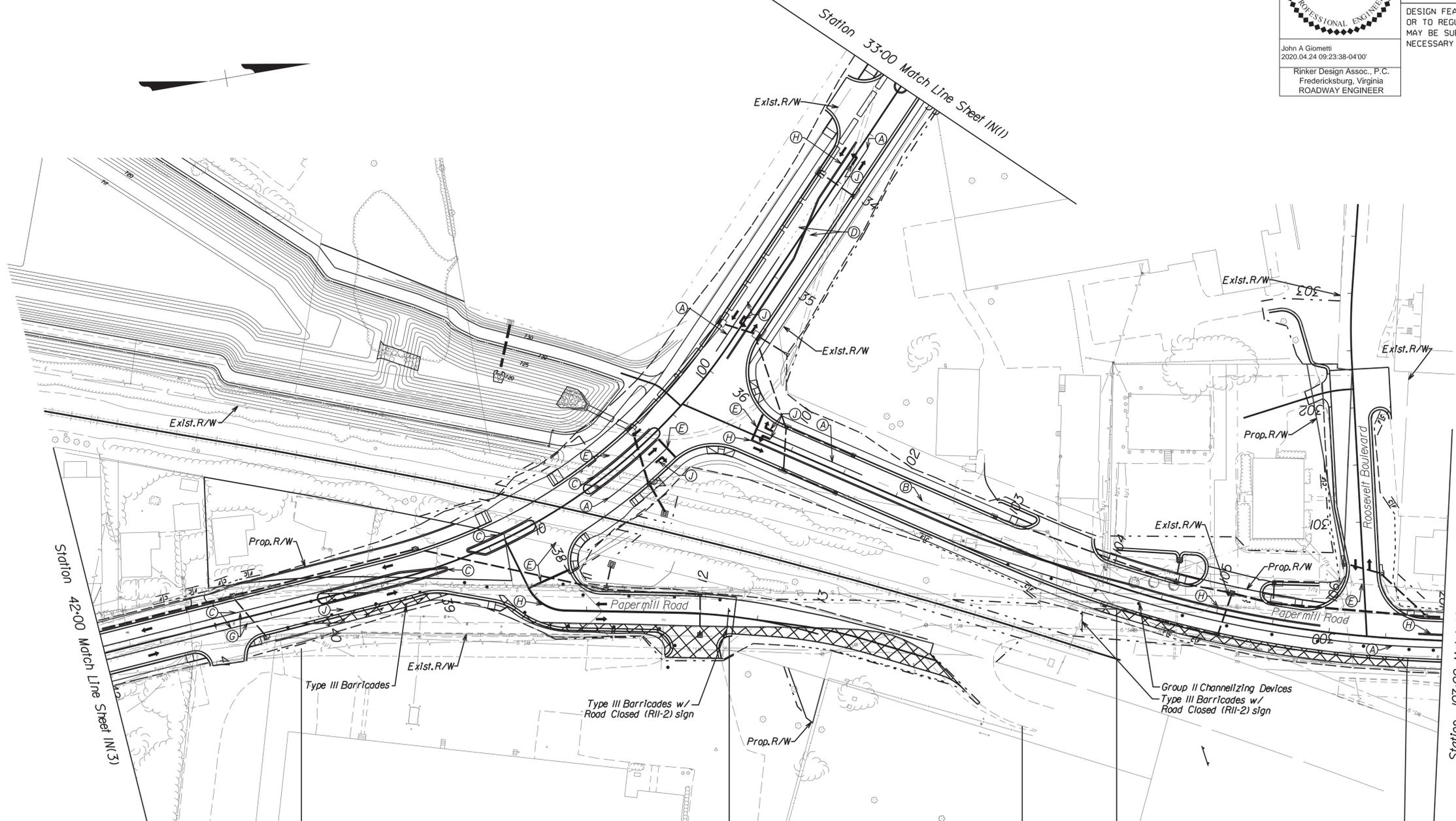
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	-	RS14-138-R10	R-201,C-501	IN(2)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Fredericksburg, VA 22409
 (703) 334-0060
 www.rinker.com

PHASE 4 TMP/SOC



Contractor to Implement VWAPM TTC-4.2 and TTC-23.2 (if necessary) on Northbound Papermill Road
 Contractor to close shoulder and, if necessary, close existing Northbound lane and provide Flagger Service to shift all traffic to Southbound lane to complete tie in.
 Contractor to construct proposed roadway up to existing pavement.

Contractor to Implement VWAPM TTC-1J on Papermill Road
 Contractor to close existing Papermill Road and maintain local traffic and access to all private entrances.
 Contractor to construct proposed roadway up to existing pavement.

Contractor to Implement VWAPM TTC-21J on Northbound Papermill Road
 Contractor to close existing Northbound lane and shift all traffic to Northbound left turn lane to complete tie in.
 Contractor to construct proposed roadway up to existing pavement.

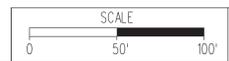
TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 4

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	RS14-138-R10	SHEET NO.	IN(2)
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PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew, M.J.D., Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

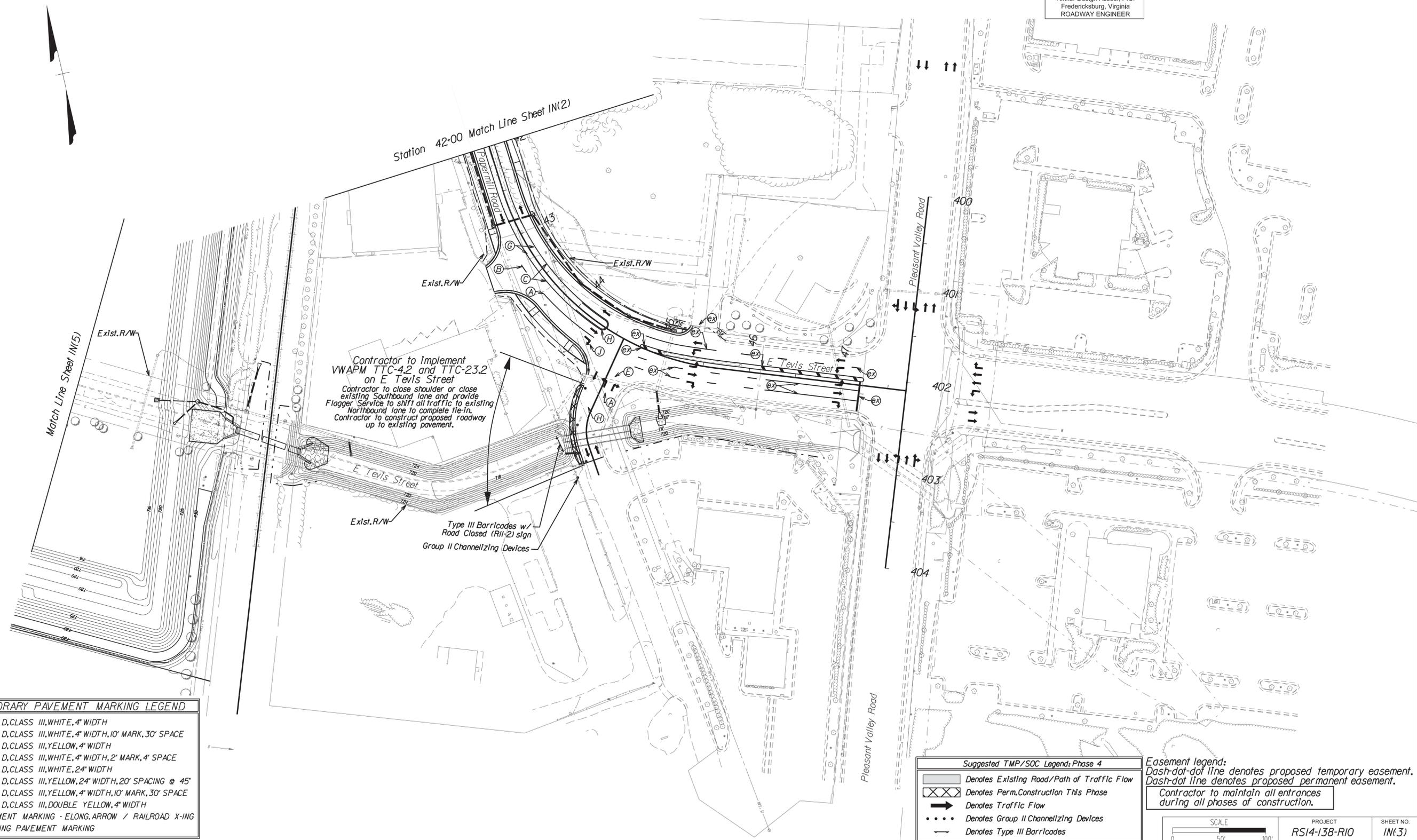
John A. Giometti
 2020.04.24 09:23:21-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE		STATE PROJECT		SHEET NO.
	ROUTE				
	VA.	-	RS14-138-R10	R-201,C-501	IN(3)

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

PHASE 4 TMP/SOC

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Fairfax, VA 22031
 703-334-0060
 www.rinker.com



TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(EX)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 4

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT: RS14-138-R10
 SHEET NO.: IN(3)

PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

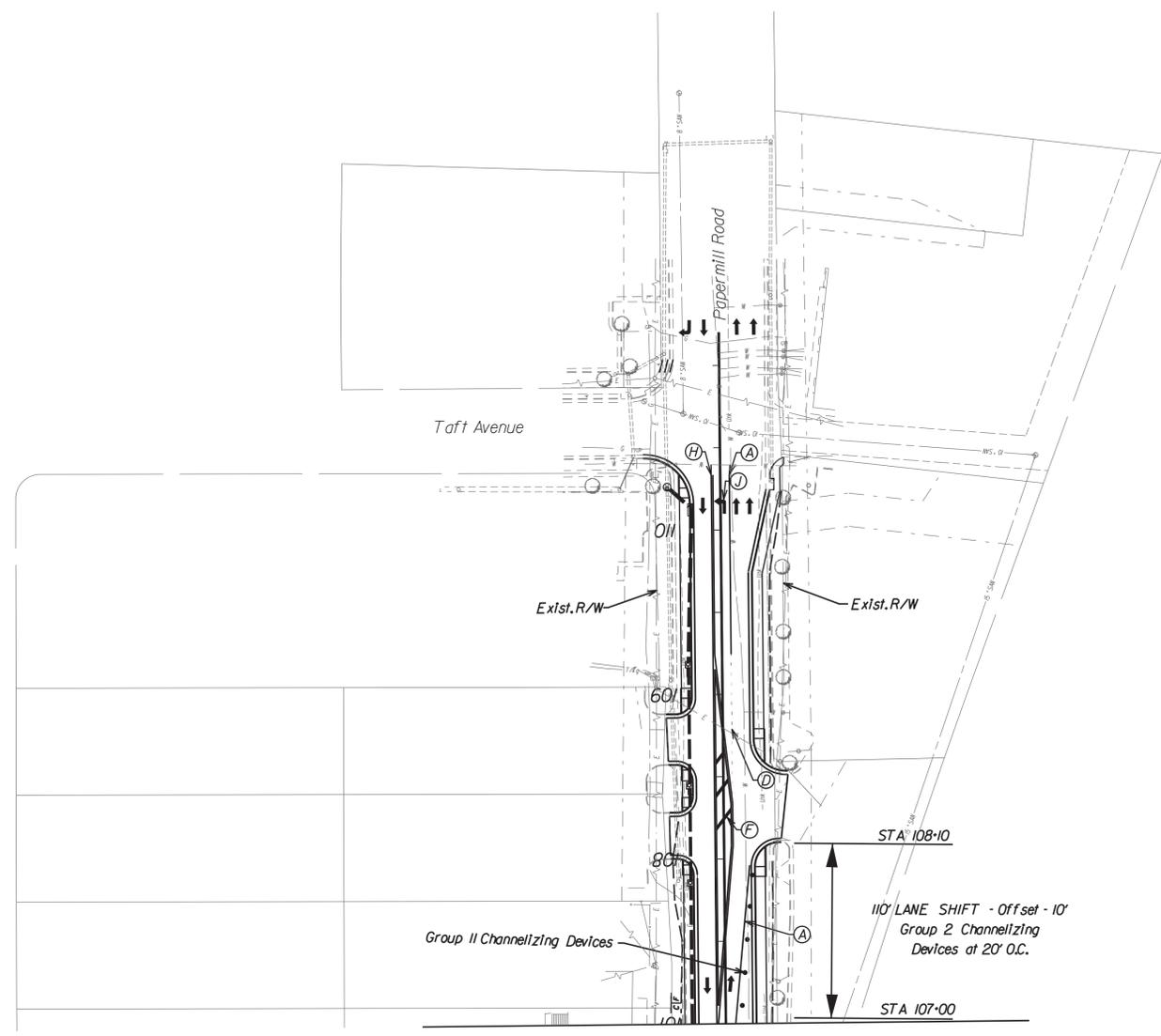
PHASE 4 TMP/SOC

John A. Giometti
2020.04.24 09:23:06-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE PROJECT		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10- R-201,C-501	IN(4)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Fredericksburg, VA 22409
 (703) 334-0060
 www.rinker.com



Station 107+00 Match Line Sheet IN(2)

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(J)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(E)	EXISTING PAVEMENT MARKING

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.

SCALE: 0 50' 100'

PROJECT: RS14-138-R10

SHEET NO.: IN(4)

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2020.04.24 09:22:47-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

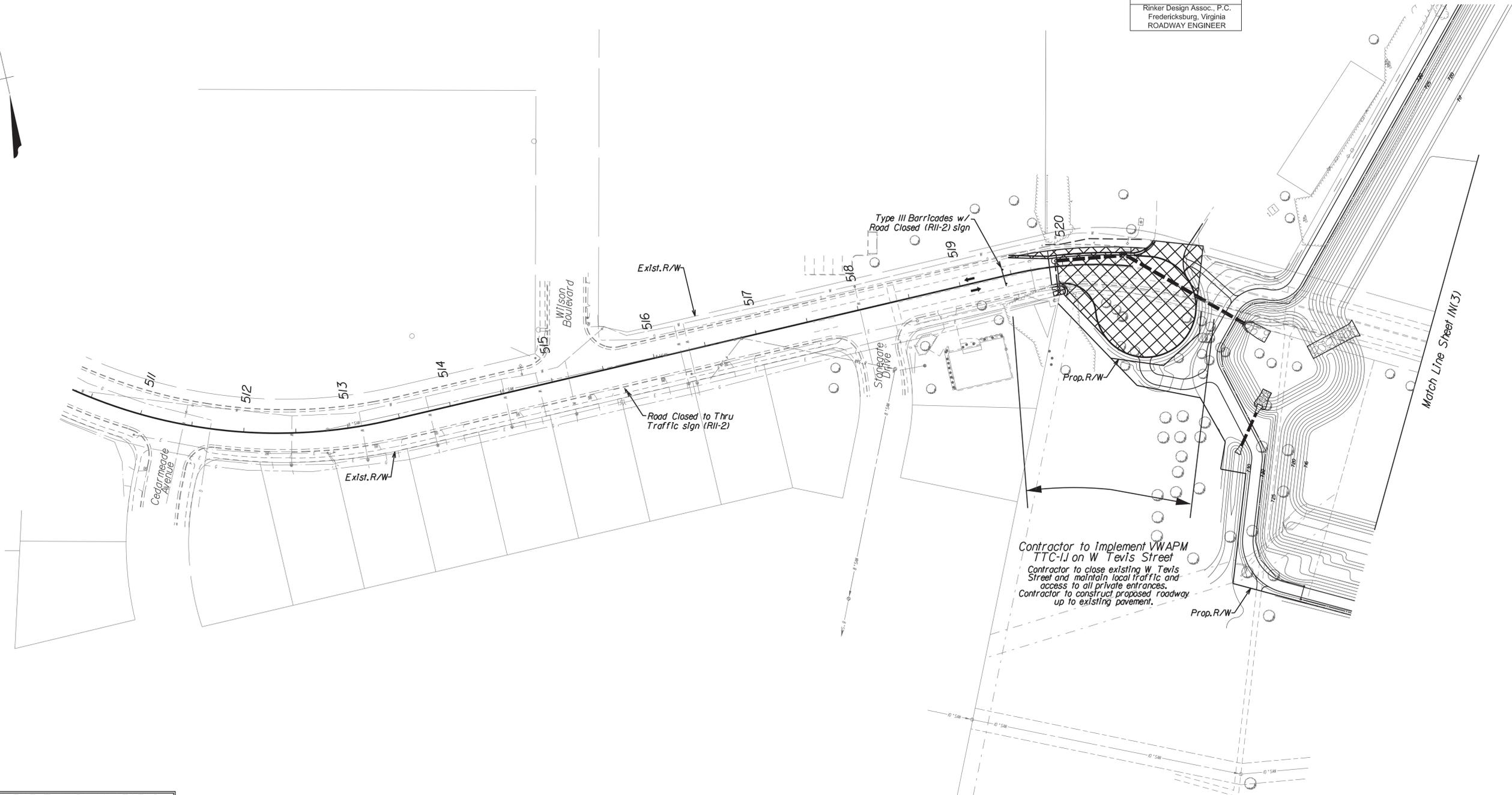
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	IN(5)

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

PHASE 4 TMP/SOC

Office Locations
 Rinker Design Associates, P.C.
 10000 Westpark Drive
 Suite 100
 Dallas, TX 75243
 Phone: (972) 412-1111
 Fax: (972) 412-1112

Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Temporary Traffic Control (TTC) - Right of Way Services



Contractor to Implement VWPM TTC-IJ on W Tevis Street
 Contractor to close existing W Tevis Street and maintain local traffic and access to all private entrances.
 Contractor to construct proposed roadway up to existing pavement.

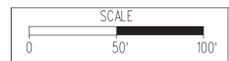
TEMPORARY PAVEMENT MARKING LEGEND

(A)	TYPE D, CLASS III, WHITE, 4" WIDTH
(B)	TYPE D, CLASS III, WHITE, 4" WIDTH, 10' MARK, 30' SPACE
(C)	TYPE D, CLASS III, YELLOW, 4" WIDTH
(D)	TYPE D, CLASS III, WHITE, 4" WIDTH, 2' MARK, 4' SPACE
(E)	TYPE D, CLASS III, WHITE, 24" WIDTH
(F)	TYPE D, CLASS III, YELLOW, 24" WIDTH, 20' SPACING @ 45°
(G)	TYPE D, CLASS III, YELLOW, 4" WIDTH, 10' MARK, 30' SPACE
(H)	TYPE D, CLASS III, DOUBLE YELLOW, 4" WIDTH
(I)	PAVEMENT MARKING - ELONG. ARROW / RAILROAD X-ING
(X)	EXISTING PAVEMENT MARKING

Suggested TMP/SOC Legend: Phase 4

	Denotes Existing Road/Path of Traffic Flow
	Denotes Perm. Construction This Phase
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Type III Barricades

Easement legend:
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 Dash-dot line denotes proposed permanent easement.
 Contractor to maintain all entrances during all phases of construction.



PROJECT	SHEET NO.
RS14-138-R10	IN(5)

PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
DESIGN BY *John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060*
SUBSURFACE UTILITY BY, DATE *Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

Office Locations
Rinker Design Associates, P.C.
10000 Westpark Drive
Suite 100
Westpark, VA 22190
703.334.0060
www.rinker.com

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Stormwater Management
Right of Way Services

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10-R-201,C-501	IP

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

Existing Drainage Descriptions

- ① Ex. Catch Basin
Ex. Top=756.00
Ex. Inv. Out=751.20(15" RCP)
- ② Ex. Catch Basin
Ex. Top=753.94
Ex. Inv. In=750.94(From-1)
Ex. Inv. In=750.90(From-3)
Ex. Inv. Out=750.70(15" RCP)
- ③ Ex. Catch Basin
Ex. Top=755.24
Ex. Inv. Out=751.24(15" RCP)
- ④ Ex. Catch Basin
Ex. Top=753.27
Ex. Inv. In=750.22(From-2)
Ex. Inv. In=750.18(12" Roof Drain)
Ex. Inv. Out=749.82(15" RCP)
- ⑤ Ex. Storm MH
Ex. Top=754.96
Ex. Inv. In=750.28(From-6)
Ex. Inv. In=749.68(From-4)
Ex. Inv. Out=748.11(15" RCP)
- ⑥ Ex. Storm MH
Ex. Top=758.90
Ex. Inv. In=751.66(From-7)
Ex. Inv. In=751.60(From-10)
Ex. Inv. Out=751.20(30" RCP)
- ⑦ Ex. Catch Basin
Ex. Top=760.93
Ex. Inv. In=754.88(From-9)
Ex. Inv. In=753.13(From-8)
- ⑧ Ex. Catch Basin
Ex. Top=760.45
Ex. Inv. In=753.60(24" RCP)
- ⑨ Ex. Storm Grate
Ex. Top=759.32
Ex. Inv. Out=756.90(15" CMP)
- ⑩ Ex. Catch Basin
Ex. Top=761.05
Ex. Inv. Out=754.6(15" RCP)
- ⑪ Elevation at Floor Structure is full of water
Ex. Storm MH
Ex. Top=752.10
Ex. Inv. In=746.96(From-12)
Ex. Inv. In=746.90(From-5)
Ex. Inv. In=746.90(From-14)
Ex. Inv. Out=746.70(36" RCP)
- ⑫ Ex. Storm MH
Ex. Top=752.05
Ex. Inv. In=748.10
Ex. Inv. Out=747.30(15" RCP)
- ⑬ Ex. Catch Basin
Ex. Top=752.47
Ex. Inv. In=748.10
Ex. Inv. Out=747.50(15" RCP)
- ⑭ Ex. Catch Basin
Ex. Top=752.05
Ex. Inv. In=748.62
Ex. Inv. Out=747.52(24" RCP)
- ⑮ Ex. Catch Basin
Ex. Top=753.80
Ex. Inv. In=748.75
Ex. Inv. Out=748.68(18" RCP)
- ⑯ Ex. Catch Basin
Ex. Top=754.23
Ex. Inv. In=749.44
Ex. Inv. Out=749.43(15" RCP)
- ⑰ Ex. Catch Basin
Ex. Top=756.05
Ex. Inv. In=751.05
Ex. Inv. Out=751.00(15" RCP)
- ⑱ Ex. Catch Basin
Ex. Top=757.05
Ex. Inv. In=752.45(12" PVC)
Ex. Inv. Out=751.93(15" RCP)
- ⑲ Ex. Catch Basin
Ex. Top=751.90
Ex. Inv. In=747.65
Ex. Inv. Out=747.50(15" RCP)
- ⑳ Ex. Catch Basin
Ex. Top=752.50
Ex. Inv. In=747.88
Ex. Inv. Out=747.82(15" RCP)
- ㉑ Ex. Catch Basin
Ex. Top=751.92
Ex. Inv. Out=748.50(15" RCP)
- ㉒ Ex. Catch Basin
Ex. Top=751.90
Ex. Inv. In=747.38
Ex. Inv. Out=747.32(15" RCP)
- ㉓ Ex. Storm MH
Ex. Top=751.25
Ex. Inv. In=746.73(From Buried Structure)
- ㉔ Ex. Catch Basin
Ex. Top=750.80
Ex. Inv. In=745.65
Ex. Inv. Out=745.50(36" RCP)
- ㉕ Ex. Catch Basin
Ex. Top=750.97
Ex. Inv. Out=747.00(15" CPP)
- ㉖ Ex. Catch Basin
Ex. Top=751.00
Ex. Inv. In=746.00
Ex. Inv. Out=745.95(15" RCP)
- ㉗ Ex. Catch Basin
Ex. Top=750.20
Ex. Inv. In=745.45(From-26)
Ex. Inv. In=744.40(From-24)
Ex. Inv. Out=744.40(36" RCP)
- ㉘ Ex. Catch Basin
Ex. Top=749.67
Ex. Inv. In=743.40(From-27)
Ex. Inv. In=743.27(From-29)
Ex. Inv. Out=741.63(36" RCP)
- ㉙ Ex. Catch Basin
Ex. Top=749.72
Ex. Inv. Out=745.07(15" RCP)
- ㉚ Ex. Storm MH
Ex. Top=748.40
Ex. Inv. In=740.60
Ex. Inv. Out=734.40(42" RCP)
- ㉛ Ex. Catch Basin
Ex. Top=747.87
Ex. Inv. Out=743.17(18" RCP)
- ㉜ Ex. Catch Basin
Ex. Top=743.32
Ex. Inv. In=738.57
Ex. Inv. Out=738.47(18" RCP)
- ㉝ Ex. Catch Basin
Ex. Top=742.65
Ex. Inv. In=732.45
Ex. Inv. Out=732.40(42" RCP)
- ㉞ Ex. Catch Basin
Ex. Top=747.07
Ex. Inv. Out=742.80(15" CPP)
- ㉟ Ex. Storm Grate
Ex. Top=746.10
Ex. Inv. In=742.42
Ex. Inv. Out=742.30(15" CPP)
- ㊱ Ex. Catch Basin
Ex. Top=746.03
Ex. Inv. In=741.05
Ex. Inv. Out=741.04(15" CPP)
- ㊲ Ex. Catch Basin
Ex. Top=744.47
Ex. Inv. In=740.08(From-38)
Ex. Inv. In=740.00(From-36)
Ex. Inv. Out=739.80(15" CPP)
- ㊳ Ex. Storm Grate
Ex. Top=743.85
Ex. Inv. Out=740.30(15" CPP)
- ㊴ Ex. Catch Basin
Ex. Top=743.97
Ex. Inv. In=739.65
Ex. Inv. Out=739.63(18" CPP)
- ㊵ Ex. Storm Grate
Ex. Top=742.77
Ex. Inv. In=738.90
Ex. Inv. Out=738.37(15" CPP)
- ㊶ Ex. Catch Basin
Ex. Top=740.28
Ex. Inv. In=736.30
Ex. Inv. Out=736.03(15" CPP)
- ㊷ Ex. End-Section
Ex. Top=735.47
- ㊸ Ex. Catch Basin
Ex. Top=742.56
Ex. Inv. In=737.23(From-32)
Ex. Inv. In=732.08(From-44)
Ex. Inv. Out=731.96(36" RCP)
- ㊹ Ex. Storm Grate
Ex. Top=742.40
Ex. Inv. In=735.25
Ex. Inv. In=733.85(36" RCP)
- ㊺ Ex. Catch Basin
Ex. Top=743.55
Ex. Inv. Out=739.42(15" CPP)
- ㊻ Ex. Storm MH
Ex. Top=745.32
Ex. Inv. In=739.11(From-45)
Ex. Inv. Out=736.05(18" CPP)
- ㊼ Ex. Storm MH
Ex. Top=745.55
Ex. Inv. In=739.05(From-50)
Ex. Inv. In=736.35(From-48)
Ex. Inv. Out=736.35(18" CMP)
- ㊽ Ex. Storm MH
Ex. Top=747.25
Ex. Inv. In=739.90
Ex. Inv. Out=739.55(15" CMP)
- ㊾ Ex. Pond Structure
Ex. Top=746.27
Ex. Inv. Out=739.87(15" CPP)
- ㊿ Ex. Catch Basin
Ex. Top=744.15
Ex. Inv. Out=739.70(15" CMP)
- 1 Ex. Catch Basin
Ex. Top=742.43
Ex. Inv. In=731.70
Ex. Inv. Out=731.34(36" RCP)
- 2 Ex. Storm MH
Ex. Top=739.60
Ex. Inv. In=732.78(From-55)
Ex. Inv. In=731.45(From-33)
Ex. Inv. Out=731.19(48" RCP)
- 3 Ex. End-Section
Ex. Top=731.17
- 4 Ex. End-Section
Ex. Top=731.10
- 5 Ex. Catch Basin
Ex. Top=738.55
Ex. Inv. In=733.95
Ex. Inv. Out=733.70(24" RCP)
- 6 Ex. End-Section
Ex. Top=734.15
Ex. Inv. In=734.15
Ex. Inv. Out=732.40(42" RCP)
- 7 Ex. Storm MH
Ex. Top=737.50
Ex. Inv. In=731.93
Ex. Inv. Out=731.83(24" RCP)
- 8 Ex. Storm Grate
Ex. Top=734.68
Ex. Inv. In=731.36
Ex. Inv. Out=731.32(24" CPP)
- 9 Ex. Catch Basin
Ex. Top=735.50
Ex. Inv. In=731.35
Ex. Inv. Out=731.30(15" RCP)
- 10 Ex. Storm MH
Ex. Top=736.02
Ex. Inv. In=729.82
Ex. Inv. Out=729.77(15" RCP)
- 11 Ex. Storm MH
Ex. Top=735.95
Ex. Inv. In=730.30
Ex. Inv. Out=730.05(18" CPP)
- 12 Ex. Catch Basin
Ex. Top=736.95
Ex. Inv. In=730.65(12" RCP)
Ex. Inv. Out=730.60(18" RCP)
- 13 Ex. Catch Basin
Ex. Top=735.40
Ex. Inv. In=731.00
Ex. Inv. Out=730.85(36" CPP)
- 14 Ex. End-Section
Ex. Top=722.10
Ex. Inv. In=719.35
Ex. Inv. Out=719.30(18" RCP)
- 15 Ex. Inv. In=731.00(36" RCP)
- 16 Ex. Inv. In=731.00(42" RCP)
- 17 Ex. Storm Structure
Ex. Top=735.37
Ex. Inv. In=733.42(From-69)
Ex. Inv. In=730.72(From-65)
Ex. Inv. In=730.72(From-66)
Ex. Inv. Out=730.77(38"x60" RCP)
- 18 Ex. Storm Grate
Ex. Top=733.80
Ex. Inv. In=731.85
Ex. End-Section
Ex. Top=733.23(12" CPP)
- 19 Ex. Storm MH
Ex. Top=735.60
Ex. Inv. In=729.26(From-67)
Ex. Inv. In=729.24(From-60)
Ex. Inv. Out=729.10(38"x60" RCP)
- 20 Ex. Catch Basin
Ex. Top=734.05
Ex. Inv. In=728.42(From-70)
Ex. Inv. In=728.34(From-72)
Ex. Inv. Out=728.27(68"x43" RCP)
- 21 Ex. Catch Basin
Ex. Top=733.45
Ex. Inv. Out=728.75(30" RCP)
- 22 Ex. Catch Basin
Ex. Top=732.33
Ex. Inv. In=728.24(From-77)
Ex. Inv. In=727.98(From-79)
Ex. Inv. In=726.66(From-71)
- 23 Ex. Inv. In=728.75(68"x43" RCP)
Ex. Endwall
Ex. Top=731.00
Ex. Inv. In=726.20
Ex. End-Section
Ex. Top=730.20
- 24 Ex. Catch Basin
Ex. Top=732.85
Ex. Inv. In=729.95(12" RCP)
Ex. Inv. Out=729.80(12" RCP)
- 25 Ex. Storm MH
Ex. Top=733.83
Ex. Inv. In=729.20(From-78)
Ex. Inv. In=729.15(From-76)
Ex. Inv. Out=728.73(15" RCP)
- 26 Ex. End-Section
Ex. Top=729.85
Ex. Storm Grate
Ex. Top=731.95
Ex. Inv. In=729.17(18" RCP)
Ex. Inv. Out=729.15(12" RCP)
- 27 Ex. Catch Basin
Ex. Top=719.53
Ex. Inv. In=715.83
Ex. Inv. Out=715.82(19"x30" RCP)
- 28 Ex. Storm MH
Ex. Top=722.05
Ex. Inv. In=718.15(From-82)
Ex. Inv. In=717.70(From-88)
Ex. Inv. Out=717.40(18" RCP)
- 29 Ex. Storm MH
Ex. Top=723.92
Ex. Inv. In=719.00(From-84)
Ex. Inv. In=718.92(From-83)
Ex. Inv. Out=718.87(18" RCP)
- 30 Ex. Catch Basin
Ex. Top=724.10
Ex. Inv. In=719.00(24" CPP)
Ex. Inv. Out=718.95(6" PVC)
- 31 Ex. Catch Basin
Ex. Top=722.60
Ex. Inv. In=719.10
Ex. Inv. Out=718.90(18" RCP)
- 32 Ex. Catch Basin/Storm Grate
Ex. Top=722.10
Ex. Inv. In=719.35
Ex. Inv. Out=719.30(18" RCP)
- 33 Ex. Catch Basin
Ex. Top=725.05
Ex. Inv. In=719.55
Ex. Inv. Out=719.40(18" PVC)
- 34 Ex. Catch Basin
Ex. Top=725.97
Ex. Inv. In=719.93(36" CPP)
- 35 Ex. Catch Basin
Ex. Top=725.97
Ex. Inv. In=719.54(18" RCP)
- 36 Ex. Catch Basin
Ex. Top=725.20
Ex. Inv. In=721.40
Ex. Inv. Out=721.33(15" RCP)
- 37 Ex. Catch Basin
Ex. Top=728.10
Ex. Inv. In=723.35(4" CPP)
Ex. Inv. Out=722.95(15" RCP)
- 38 Ex. Catch Basin
Ex. Top=723.15
Ex. Inv. Out=719.15(15" RCP)
- 39 Ex. Catch Basin
Ex. Top=721.27
Ex. Inv. Out=717.20(15" RCP)
- 40 Ex. Catch Basin
Ex. Top=719.60
Ex. Inv. In=715.35(From-80)
Ex. Inv. In=715.00(From-92)
Ex. Inv. Out=714.85(27" RCP)
- 41 Ex. Storm Grate
Ex. Top=720.45
Ex. Inv. Out=717.75(18" RCP)
- 42 Ex. Catch Basin
Ex. Top=722.95
Ex. Inv. In=717.45(From-94)
Ex. Inv. In=717.40(From-96)
Ex. Inv. Out=717.35(36" RCP)
- 43 Ex. Storm MH
Ex. Top=724.52
Ex. Inv. In=721.24(From-97)
Ex. Inv. In=721.12(36" RCP)
- 44 Ex. Inv. In=720.46(36" RCP)
Ex. Inv. In=722.83
(15" RCP)
- 45 Ex. Catch Basin
Ex. Top=721.33
Ex. Inv. In=717.03(From-95)
Ex. Inv. In=716.95(From-100)
Ex. Inv. Out=716.78(34"x53" RCP)
- 46 Ex. End-Section
Ex. Top=716.75
Ex. Inv. In=719.55(15" CPP)
- 47 Ex. Catch Basin
Ex. Top=721.33
Ex. Inv. In=717.40
Ex. Inv. Out=717.36(30" RCP)
- 48 Ex. End-Section
Ex. Top=718.58
Ex. Inv. In=719.03
(15" CPP)
- 49 Ex. Catch Basin
Ex. Top=722.20
Ex. Inv. Out=719.20(15" CPP)
- 50 Ex. Catch Basin
Ex. Top=723.70
Ex. Inv. In=719.30
Ex. Inv. Out=719.25(18" CPP)
- 51 Ex. Catch Basin
Ex. Top=724.92
Ex. Inv. In=719.66
Ex. Inv. Out=719.65(18" CPP)
- 52 Ex. Catch Basin
Ex. Top=722.60
Ex. Inv. In=718.73(From-107)
Ex. Inv. Out=718.66(24" RCP)
- 53 Ex. Storm MH
Ex. Top=723.65
Ex. Inv. Out=719.00(18" CPP)
- 54 Ex. Inv. In=717.55
- 55 Ex. End-Section
Ex. Top=717.45
- 56 Ex. Storm Grate
Ex. Top=721.03
Ex. Inv. In=717.93(From-113)
Ex. Inv. In=717.78(From-111)
Ex. Inv. Out=717.73(18" CPP)
- 57 Ex. Storm Grate
Ex. Top=721.32
Ex. Inv. In=718.12
Ex. Inv. Out=718.03(15" CPP)
- 58 Ex. Storm Grate
Ex. Top=722.20
Ex. Top=718.50(From-113)
Ex. Inv. In=718.35(15" CPP)
Ex. Inv. Out=718.25(15" CPP)
- 59 Ex. Storm Structure
"Filterd"
No Access
- 60 Ex. Storm Structure
"Filterd"
No Access
- 61 Ex. Wing Wall
Ex. Top=723.90
Ex. Inv. In=716.05
(Triple-6"x6" Box Culverts)
- 62 Ex. Catch Basin
Ex. Top=724.65
Ex. Inv. In=719.65
Ex. Inv. In=719.50(15" RCP)
- 63 Ex. Catch Basin
Ex. Top=725.65
Ex. Inv. In=722.10(15" RCP)
Ex. Inv. Out=721.60(15" RCP)
- 64 Ex. Wing Wall
Ex. Top=723.62
Ex. Inv. In=715.77
(Triple-6"x6" Box Culverts)
- 65 Ex. Catch Basin
Ex. Top=724.85
Ex. Inv. Out=720.40(15" CPP)
- 66 Ex. Storm MH
Ex. Top=724.47
Ex. Inv. In=720.15
Ex. Inv. Out=718.97(15" RCP)
- 67 Ex. Catch Basin/Grate
Ex. Top=723.55
Ex. Inv. Out=719.55(15" CPP)
- 68 Ex. Catch Basin
Ex. Top=721.33
Ex. Inv. In=717.40
Ex. Inv. Out=717.36(30" RCP)
- 69 Ex. End-Section
Ex. Top=718.58
Ex. Inv. In=719.03
(15" CPP)
- 70 Ex. Storm Manhole
Ex. Top=272.21
Ex. Inv. In=266.34
Ex. Inv. Out=266.31
- 71 Ex. Storm Manhole
Ex. Top=728.84
Ex. Inv. In=721.43
(30")
Ex. Inv. In=721.51(24")
Ex. Inv. Out=721.42
- 72 Ex. End Section
Ex. Inv. In=722.68
- 73 Ex. End Section
Ex. Inv. In=722.51
- 74 Ex. Storm Manhole
Ex. Top=731.16
Ex. Inv. In=722.51
Ex. Inv. Out=722.38
- 75 Ex. End Section
Ex. Inv. In=722.68

EROSION CONTROL PLAN PHASE I

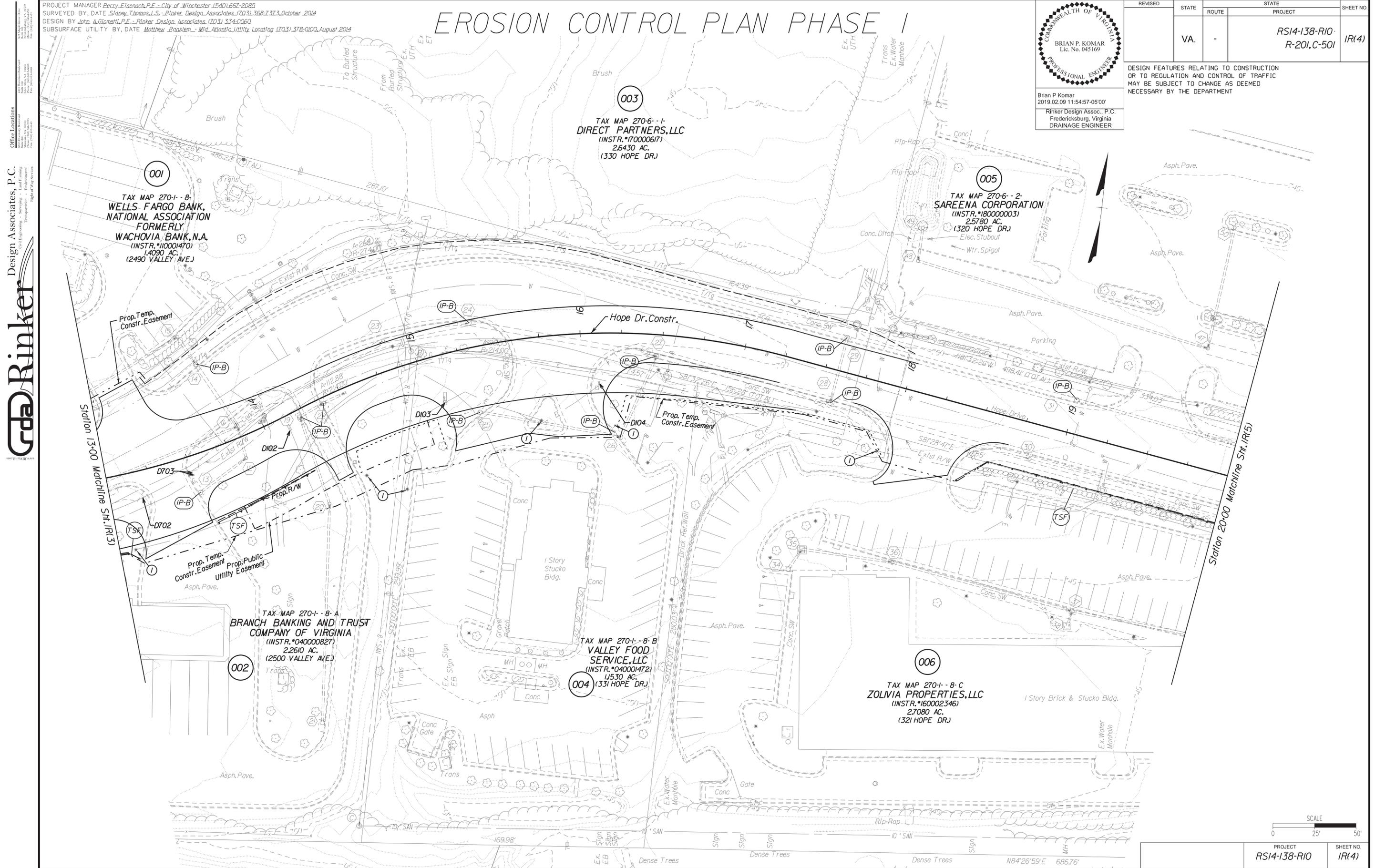
PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
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 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		RS14-138-R10-R-201,C-501	1R(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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PROJECT	SHEET NO.
RS14-138-R10	1R(4)

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 Portland, OR
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 Los Angeles, CA
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 San Jose, CA
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 Miami, FL
 Orlando, FL
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 Sarasota, FL
 Venice, FL
 Clearwater, FL
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 Dunedin, FL
 Palm Bay, FL
 Melbourne, FL
 Titusville, FL
 Palm Beach Gardens, FL
 Boca Raton, FL
 West Palm Beach, FL
 Ft. Lauderdale, FL
 Pompano Beach, FL
 Deerfield Beach, FL
 Lighthouse Point, FL
 Wilton Manors, FL
 Broward Shores, FL
 Hollywood, FL
 Miramar, FL
 Miramar Beach, FL
 Miramar Shores, FL
 Miramar Shores West, FL
 Miramar Shores East, FL
 Miramar Shores North, FL
 Miramar Shores South, FL
 Miramar Shores West, FL
 Miramar Shores East, FL
 Miramar Shores North, FL
 Miramar Shores South, FL

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PROJECT MANAGER *Barry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

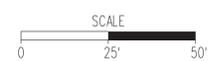
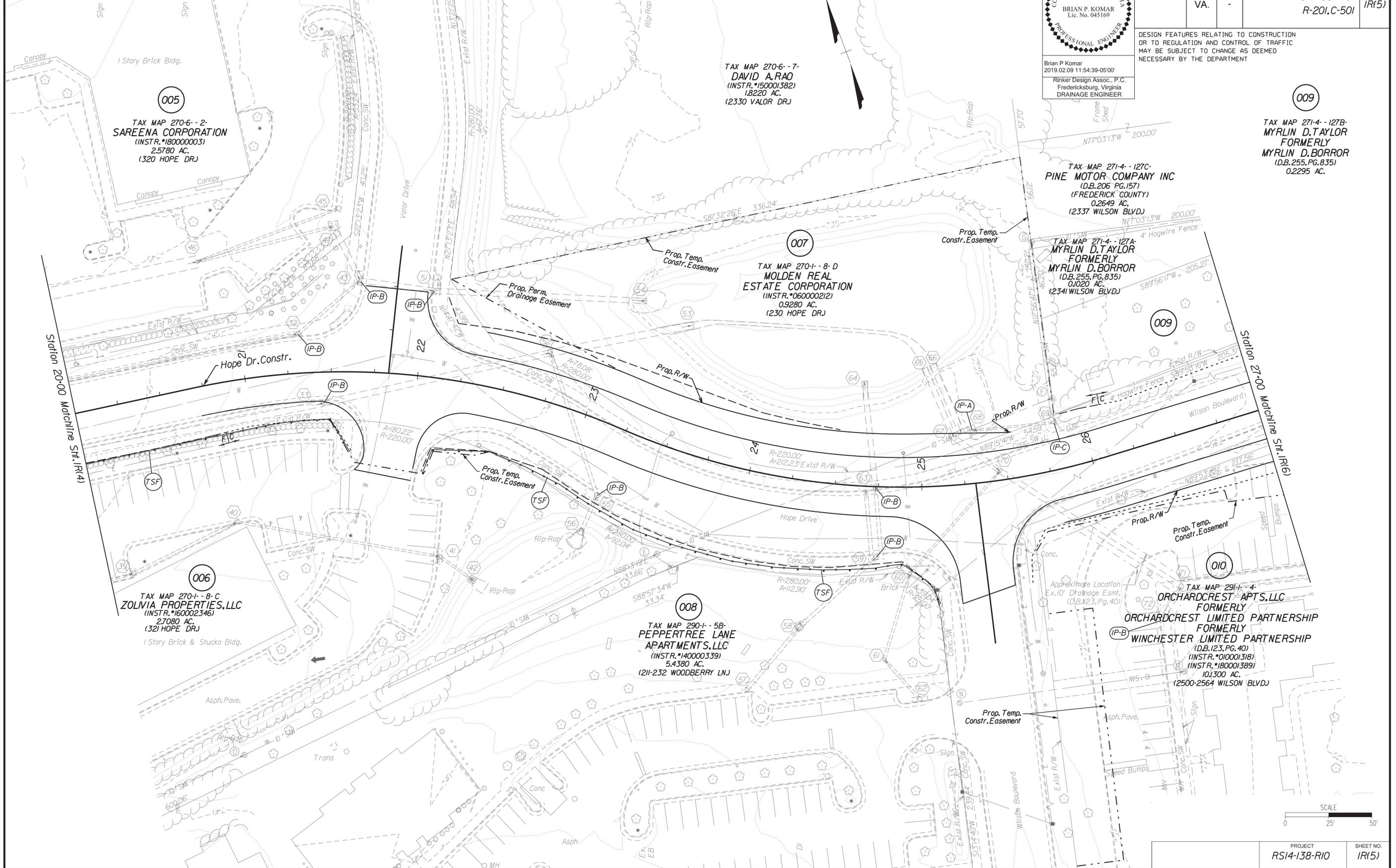
EROSION CONTROL PLAN PHASE I

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

Brian P. Komar
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 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
02-21-2018	VA.	-	RS14-138-R10-R-201,C-501	1R(5)

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



PROJECT	SHEET NO.
RS14-138-R10	1R(5)

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

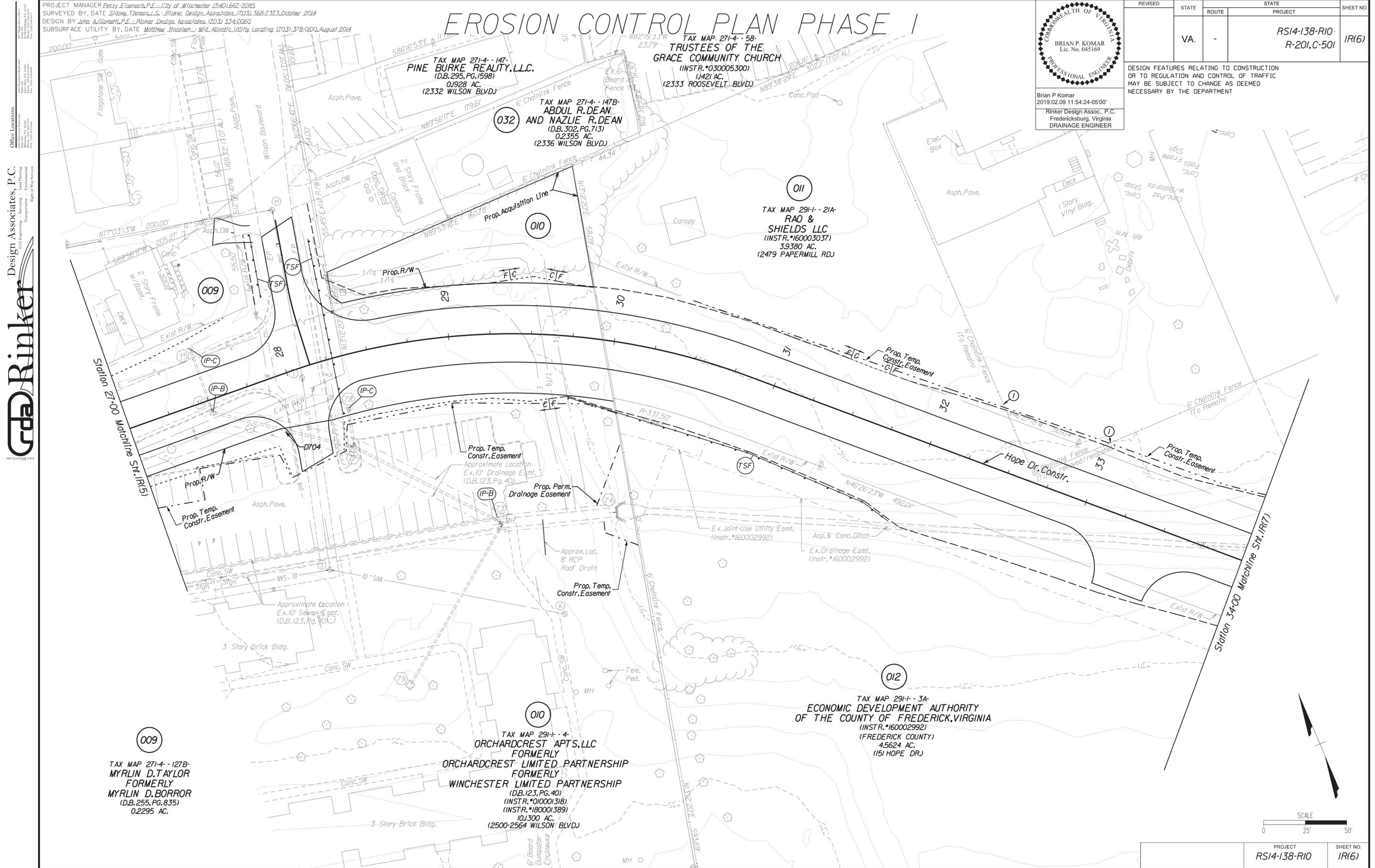
EROSION CONTROL PLAN PHASE I

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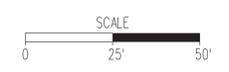
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REVISED	STATE		PROJECT	SHEET NO.
	ROUTE	PROJECT		
	VA.	-	RS14-138-R10- R-201,C-501	IR(6)

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



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PROJECT	SHEET NO.
RS14-138-R10	IR(6)

PROJECT MANAGER *Ecory, Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

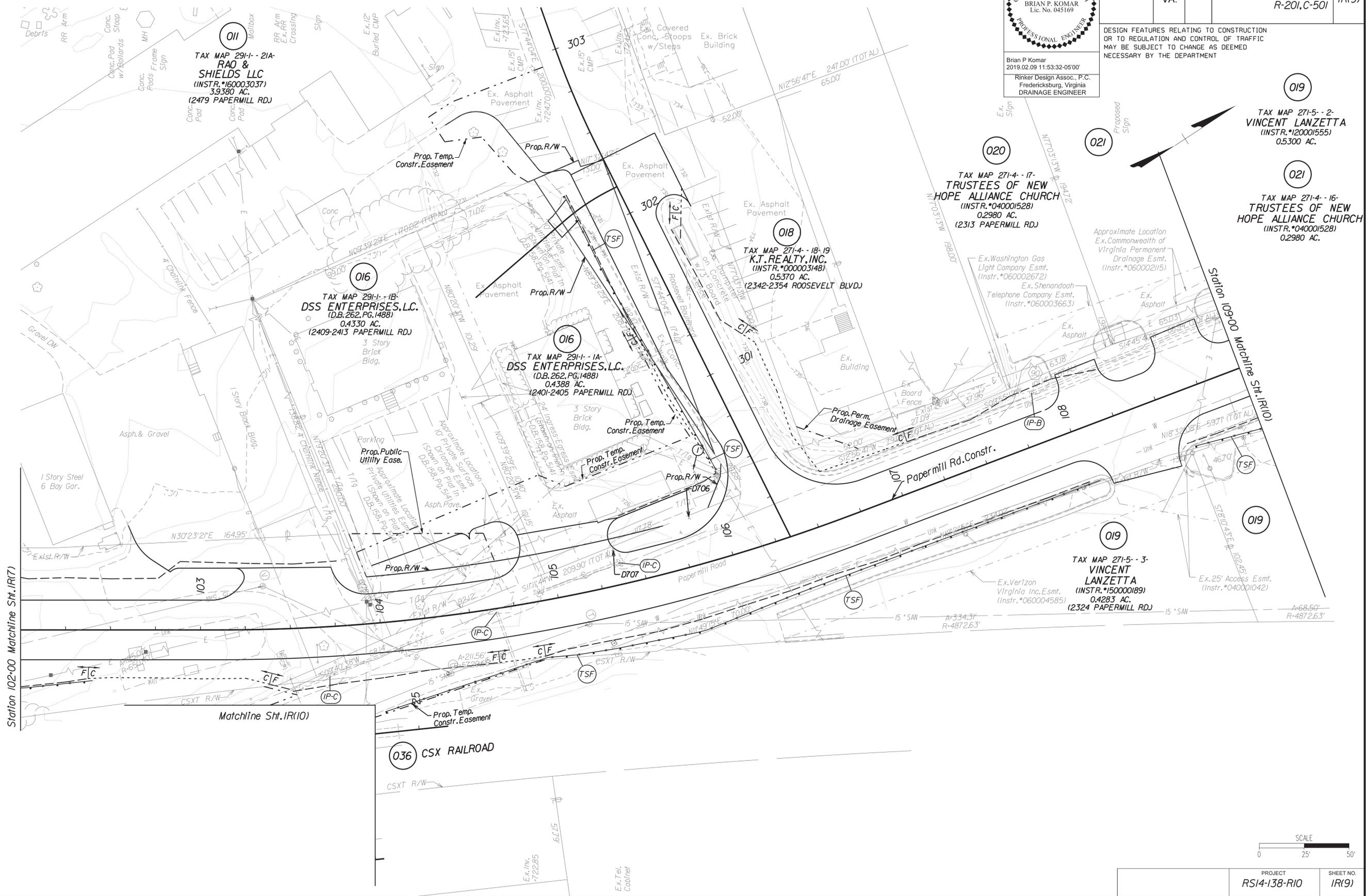
EROSION CONTROL PLAN PHASE I

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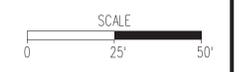
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		RS14-138-R10-R-201,C-501	1R(9)

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



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PROJECT	SHEET NO.
RS14-138-R10	1R(9)

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

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 BRIAN P. KOMAR
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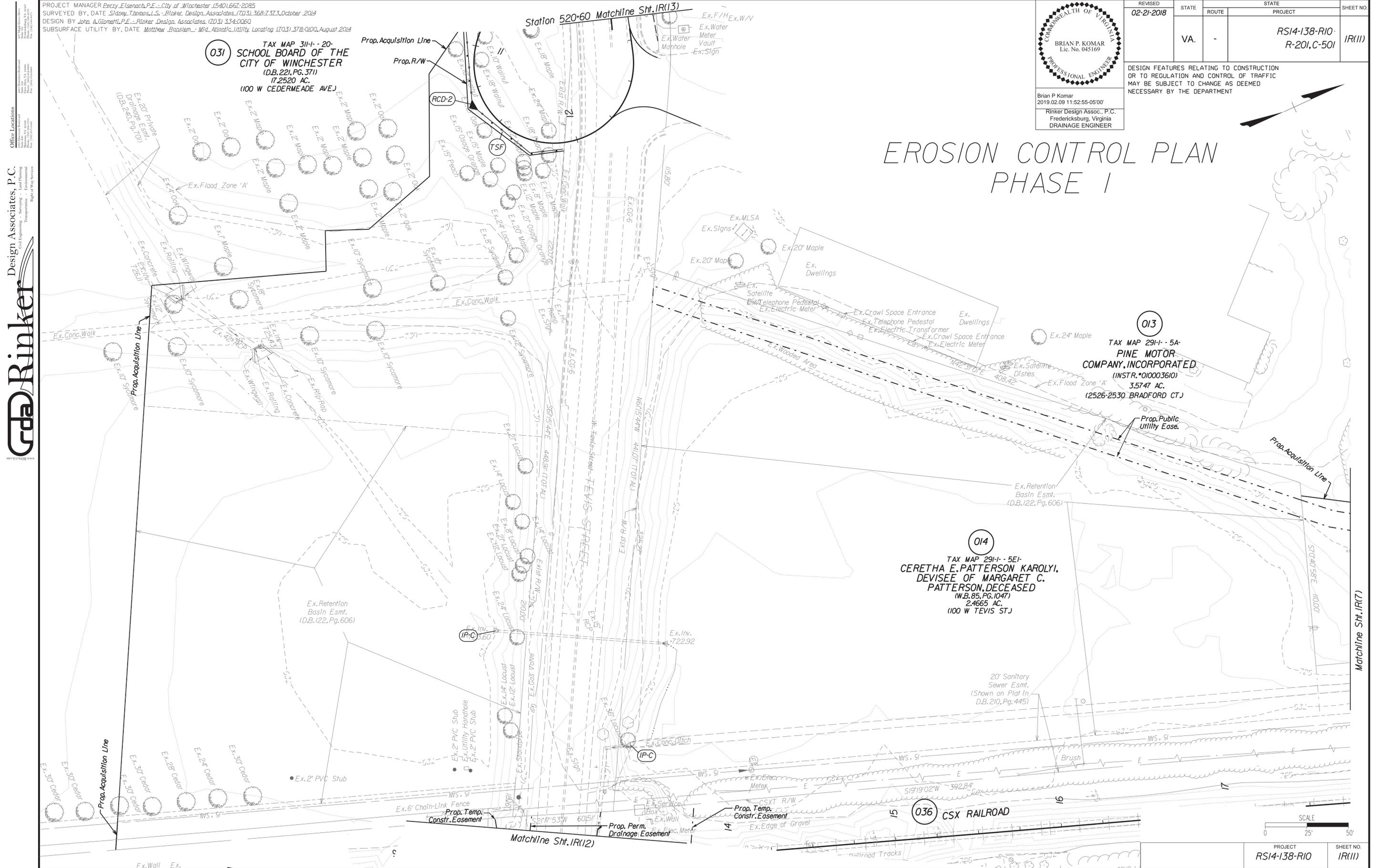
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REVISED 02-21-2018	STATE VA.	ROUTE -	STATE PROJECT RS14-138-R10- R-201,C-501	SHEET NO. 1R(11)
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

EROSION CONTROL PLAN PHASE I



Office Locations
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 Winchester, VA 22399
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 Fax: (540) 667-2086
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PROJECT RS14-138-R10	SHEET NO. 1R(11)
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PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

EROSION CONTROL PLAN PHASE I

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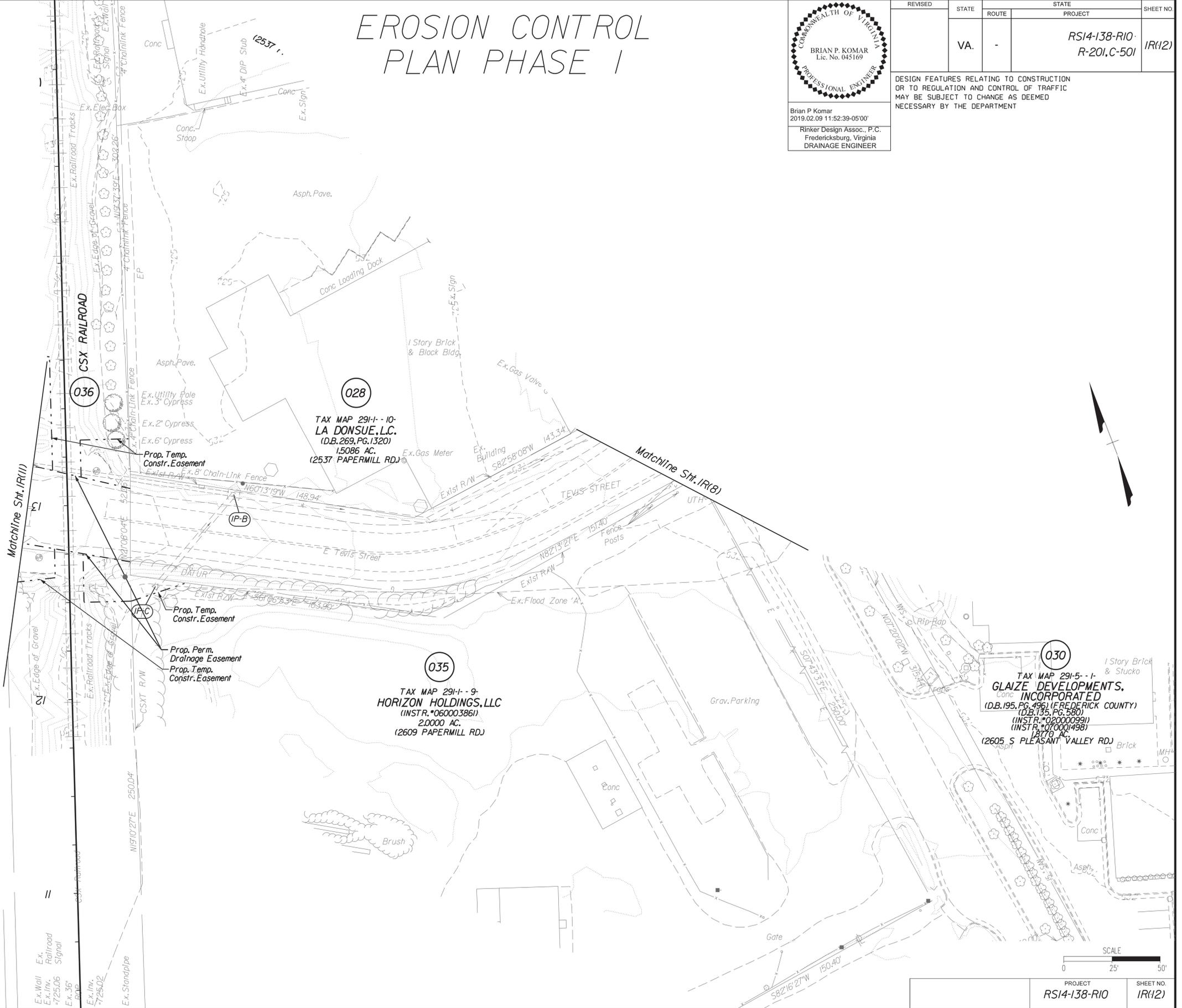
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	1R(12)

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

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PROJECT	SHEET NO.
RS14-138-R10	1R(12)

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

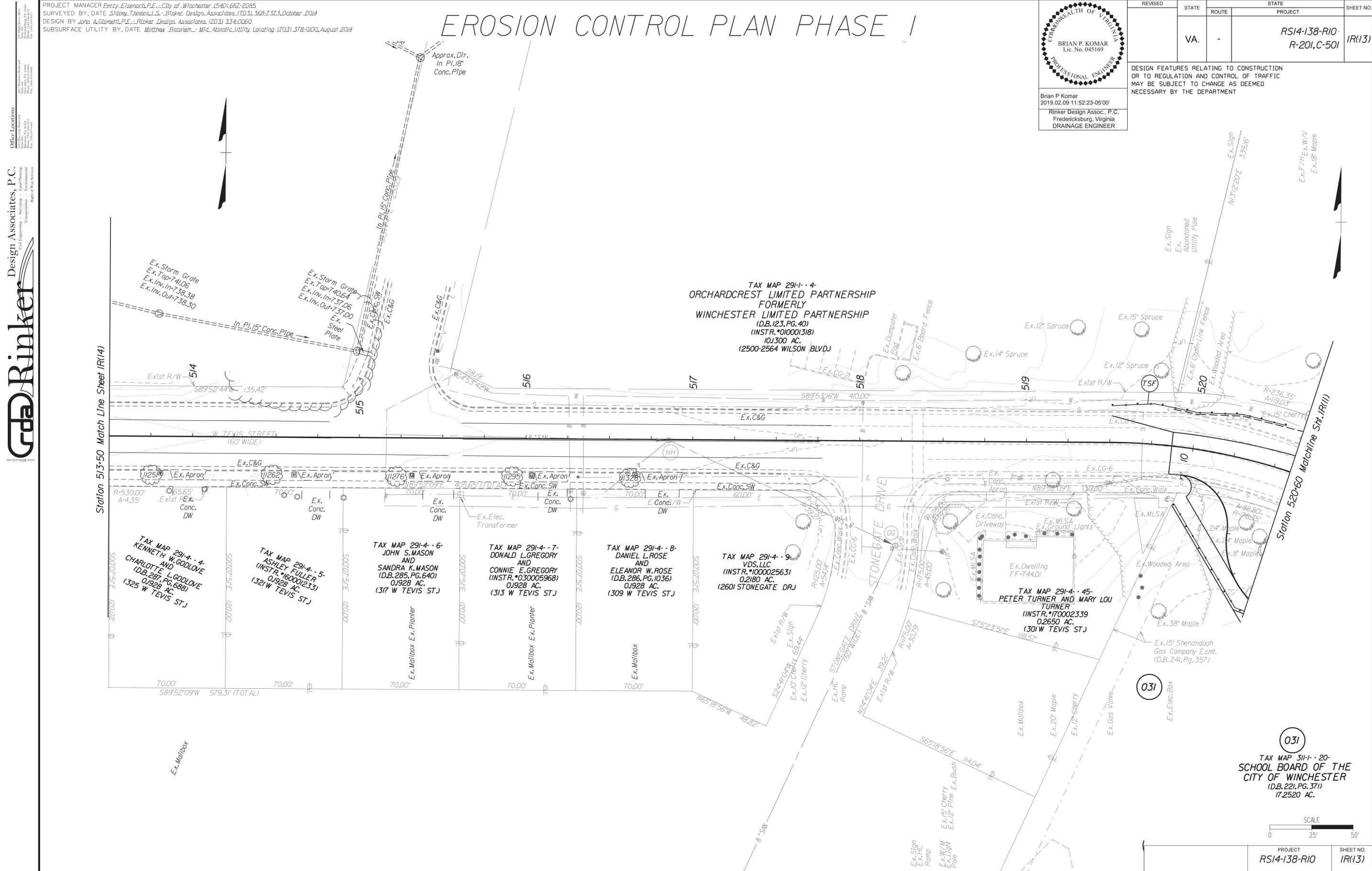
EROSION CONTROL PLAN PHASE I

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-RIO- R-201,C-501	1R(13)

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



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PROJECT RS14-138-RIO	SHEET NO. 1R(13)
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EROSION CONTROL PLAN PHASE II

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Glanville, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
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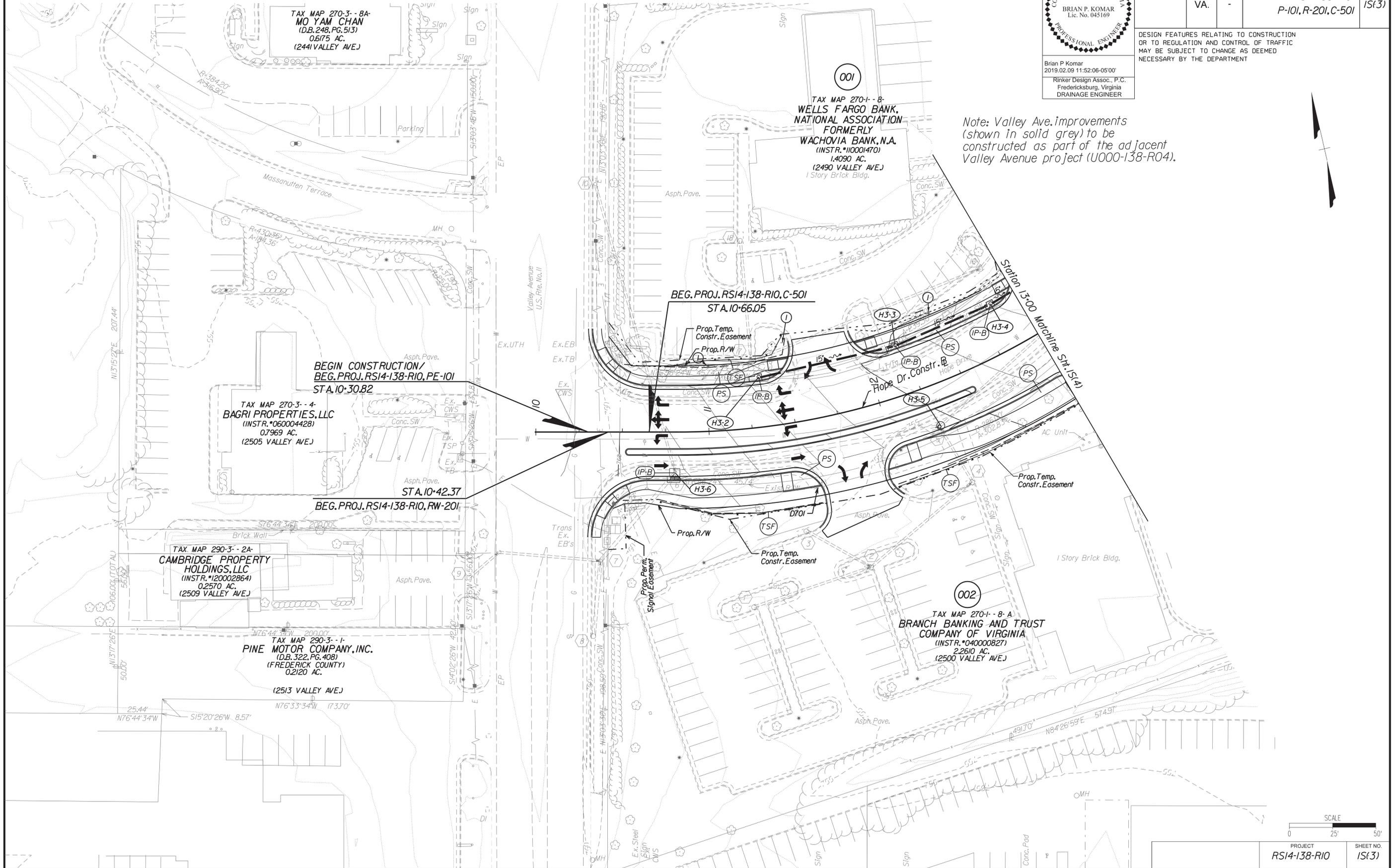
REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	-	RS14-138-R10-P-101, R-201, C-501	RS14-138-R10-P-101, R-201, C-501	15(3)

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

Note: Valley Ave. improvements (shown in solid grey) to be constructed as part of the adjacent Valley Avenue project (U000-138-R04).



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PROJECT	SHEET NO.
RS14-138-R10	15(3)

EROSION CONTROL PLAN PHASE II

PROJECT MANAGER *Eric Eisenach, P.E.* - City of Winchester (540) 667-2085
SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
BRIAN P. KOMAR
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PROFESSIONAL ENGINEER

Brian P Komar
2019.05.02 13:45:02-04'00"

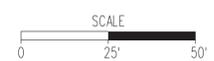
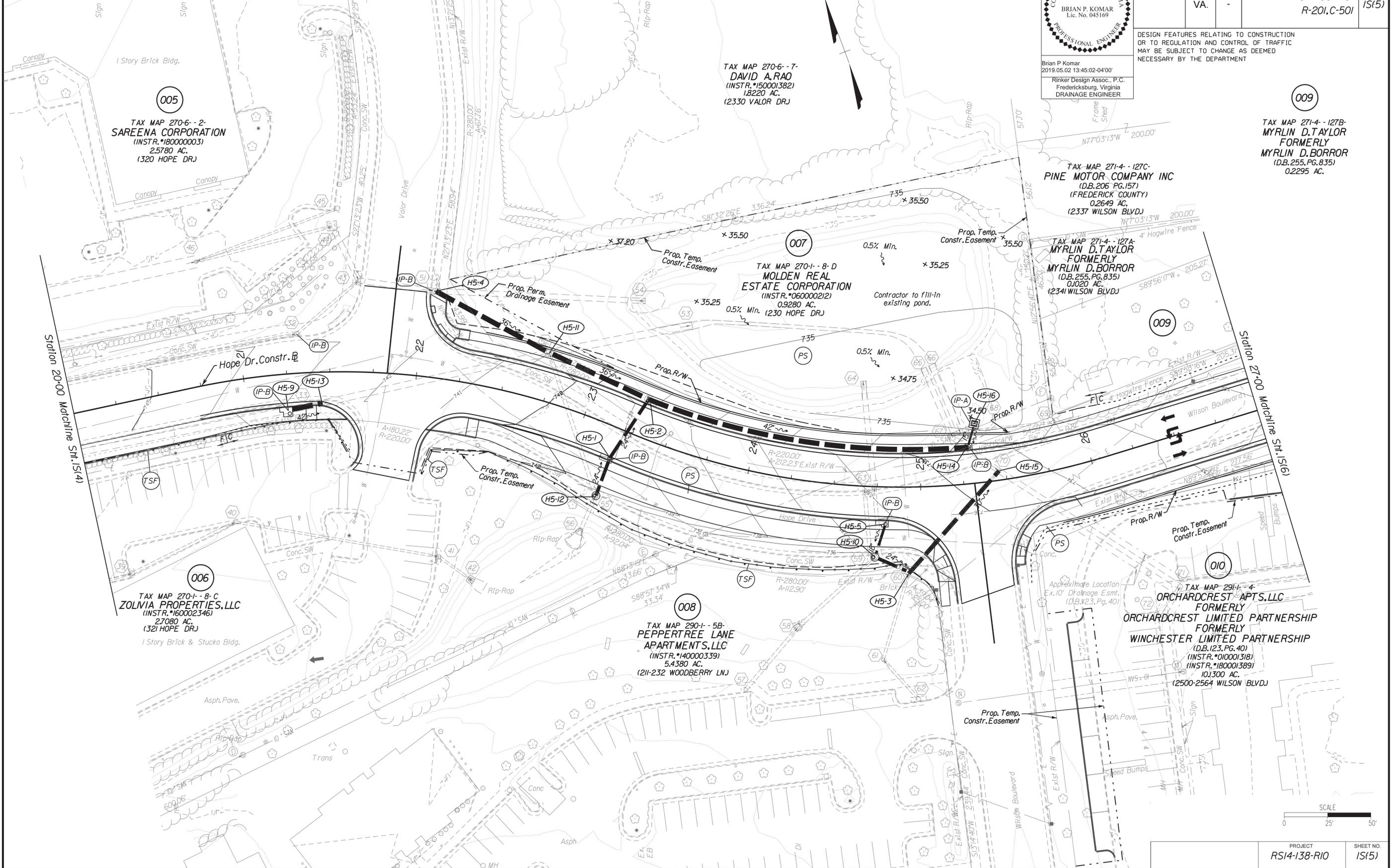
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
02-21-2018	VA.	-	RS14-138-R10- R-201,C-501	15(5)

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

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PROJECT	SHEET NO.
RS14-138-R10	15(5)

Office Locations
Rinker Design Associates, P.C.
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PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY DATE Matthew Braslem, Mid-Atlantic Utility Locating (703) 378-0100, August 2014

EROSION CONTROL PLAN PHASE II

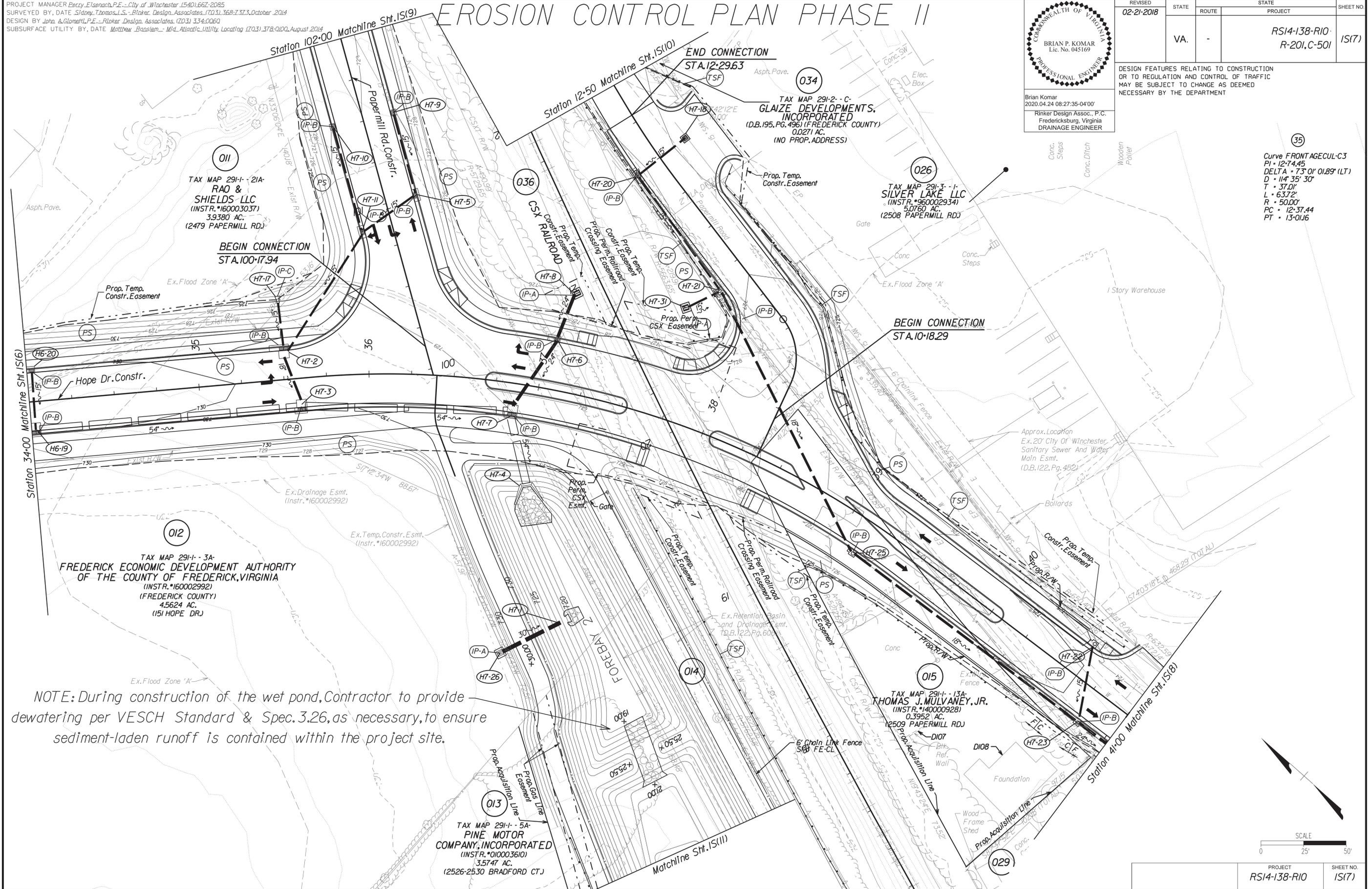
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BRIAN P. KOMAR
Lic. No. 045169
PROFESSIONAL ENGINEER

Brian Komar
2020.04.24 08:27:35-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

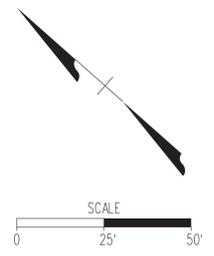
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
02-21-2018	VA.	-	RS14-138-R10-R-201,C-501	15(7)

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

35
Curve FRONTAGECUL-C3
PI = 12+74.45
DELTA = 73° 01' 01.89" (LT)
D = 114' 35" 30"
T = 37.01'
L = 63.72'
R = 50.00'
PC = 12+37.44
PT = 13+01.6



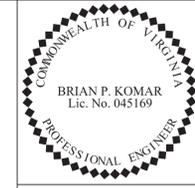
NOTE: During construction of the wet pond, Contractor to provide dewatering per VESCH Standard & Spec. 3.26, as necessary, to ensure sediment-laden runoff is contained within the project site.



PROJECT	SHEET NO.
RS14-138-R10	15(7)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Braslem, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

EROSION CONTROL PLAN PHASE II



Brian P. Komar
2019.02.09 11:49:47-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.			RSI4-138-RIO-P-101, R-201, C-501	15(8)

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

TAX MAP 292-2-10-
COLE MT WINCHESTER VALLC
(INSTR. #10002317)
17334 AC.
(2590 S PLEASANT RD.)

029
TAX MAP 291-1-12-
GARLAND WILLIAM STROSNIER (LIFE ESTATE)
AND
ROBERT STROSNIER (LIFE ESTATE)
WITH VESTED REMAINDER TO
STEPHANIE STROSNIER
AND
TIFFANY STROSNIER
(WILL INSTR. #060000023)
01600 AC. (PER TAX ASSESSMENT)
02069 AC. (PER FIELD COMPS.)

025
TAX MAP 291-5-3-
LIDL US OPERATIONS, LLC
(INSTR. #150002695)
2.303 AC.
(2525 S PLEASANT VALLEY RD.)

027
TAX MAP 291-5-4-
BANK OF CLARKE COUNTY
(INSTR. #020003474)
0.6097 AC.
(2555 S PLEASANT VALLEY RD.)

END CONSTRUCTION/
END PROJ. RSI4-138-RIO, PE-101
STA. 47+42.03

END PROJ. RSI4-138-RIO, C-501
STA. 45+13.07

END PROJ. RSI4-138-RIO, RW-201
STA. 42+75.59

030
TAX MAP 291-5-1-
GLAIZE DEVELOPMENTS,
INCORPORATED
(D.B. 195, PG. 496) (FREDERICK COUNTY)
(D.B. 135, PG. 580)
(INSTR. #020000991)
(INSTR. #070001498)
1.8770 AC.
(2605 S PLEASANT VALLEY RD.)

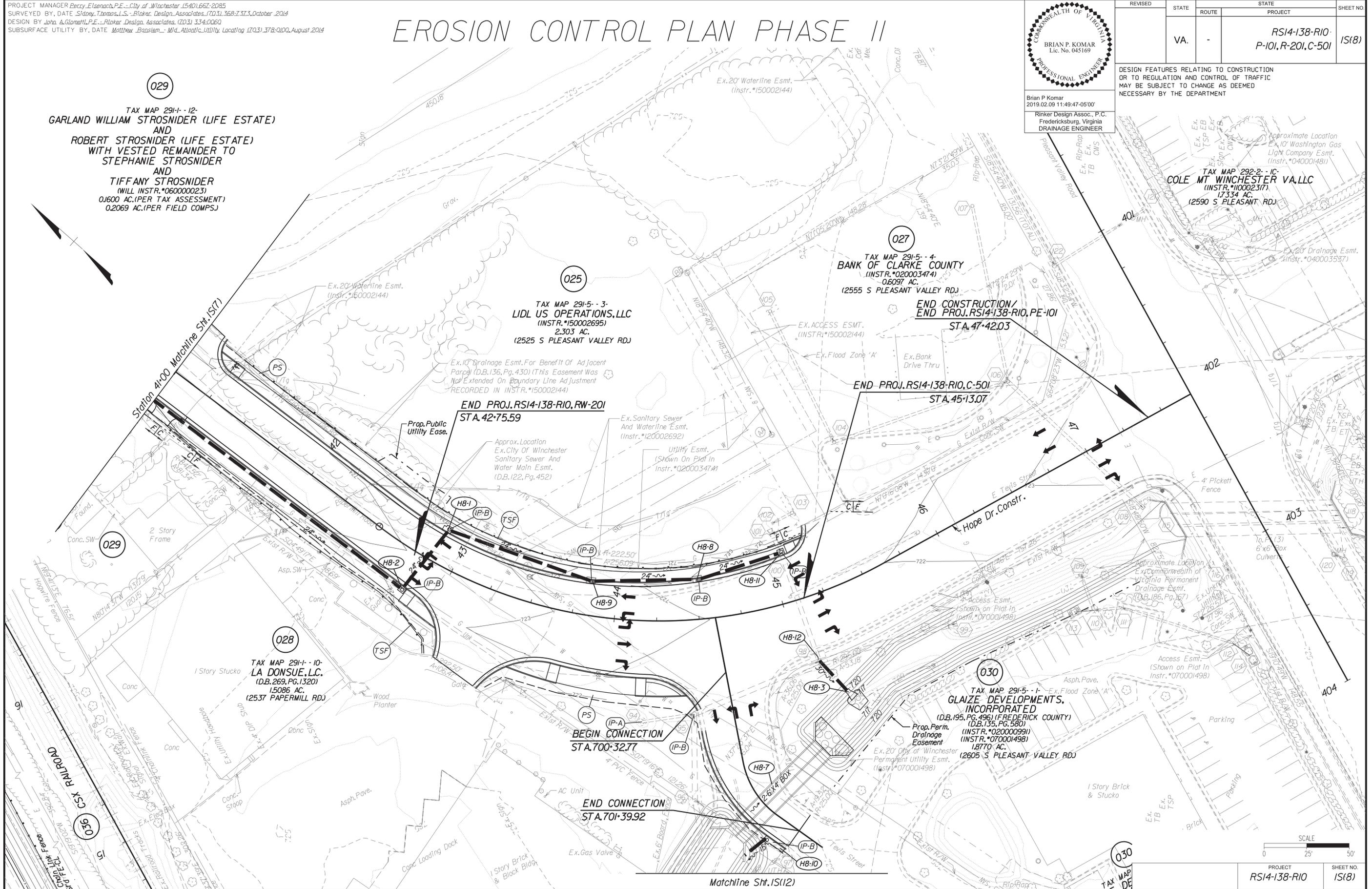
028
TAX MAP 291-1-10-
LA DONSUE, L.C.
(D.B. 269, PG. 1320)
1.5086 AC.
(2537 PAPERMILL RD.)

BEGIN CONNECTION
STA. 700+32.77

END CONNECTION
STA. 701+39.92

Matchline Sh. 15(12)

Office Locations
 Rinker Design Associates, P.C.
 Design Associates, P.C.
 Surveying - Land Planning
 Engineering - Drainage
 Environmental - Right of Way Services



PROJECT	SHEET NO.
RSI4-138-RIO	15(8)

PROJECT MANAGER *Barry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

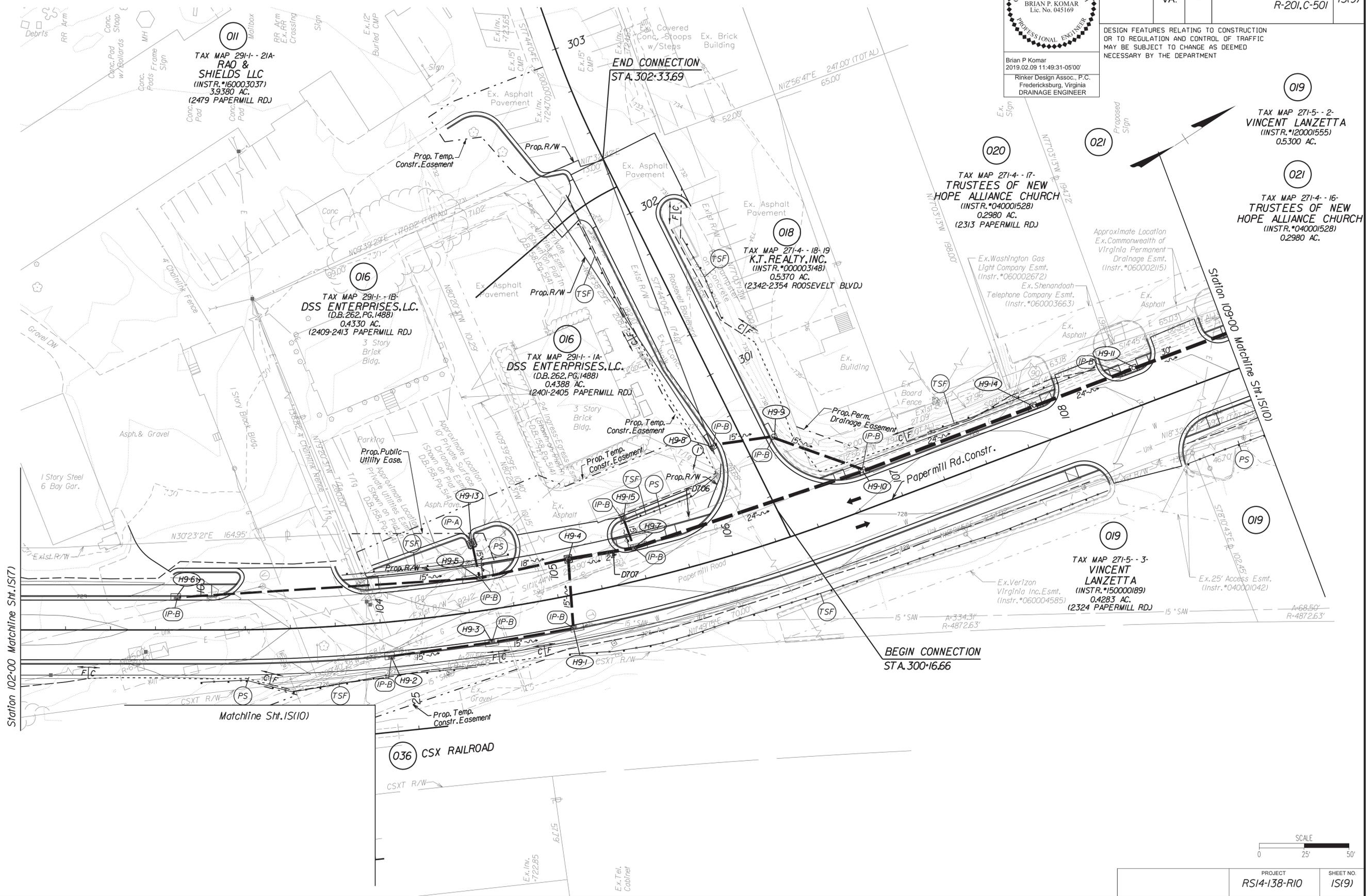
EROSION CONTROL PLAN PHASE II

BRIAN P. KOMAR
Lic. No. 045169
PROFESSIONAL ENGINEER

Brian P. Komar
2019.02.09 11:49:31-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	-		RS14-138-R10- R-201,C-501	15(9)

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



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



PROJECT	SHEET NO.
RS14-138-R10	15(9)

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

EROSION CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

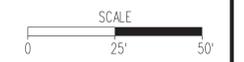
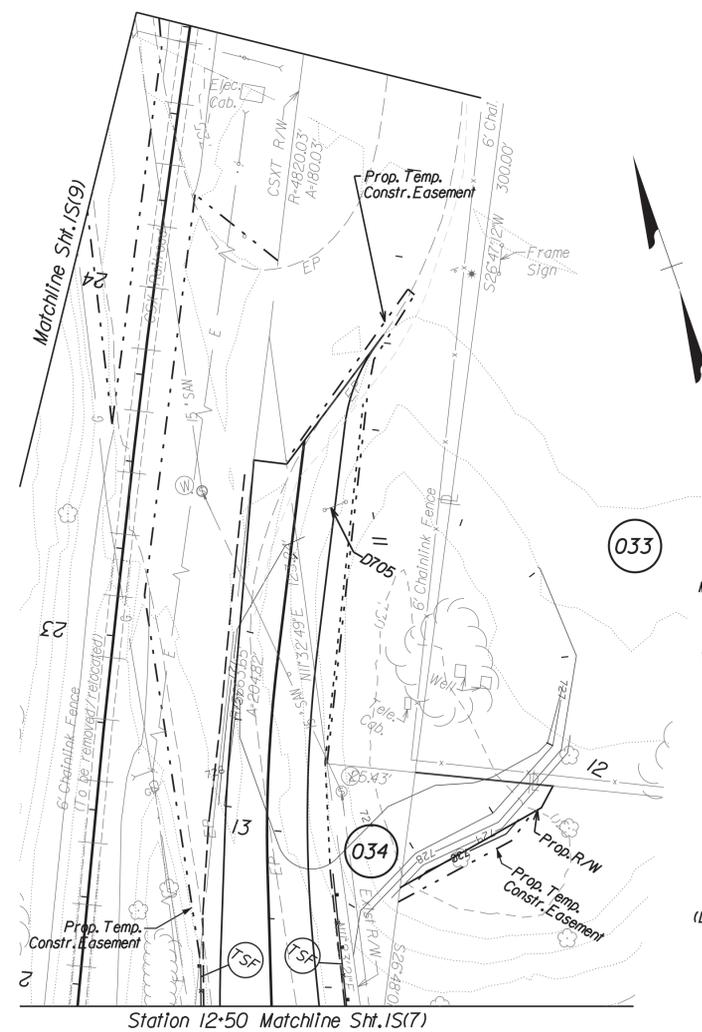
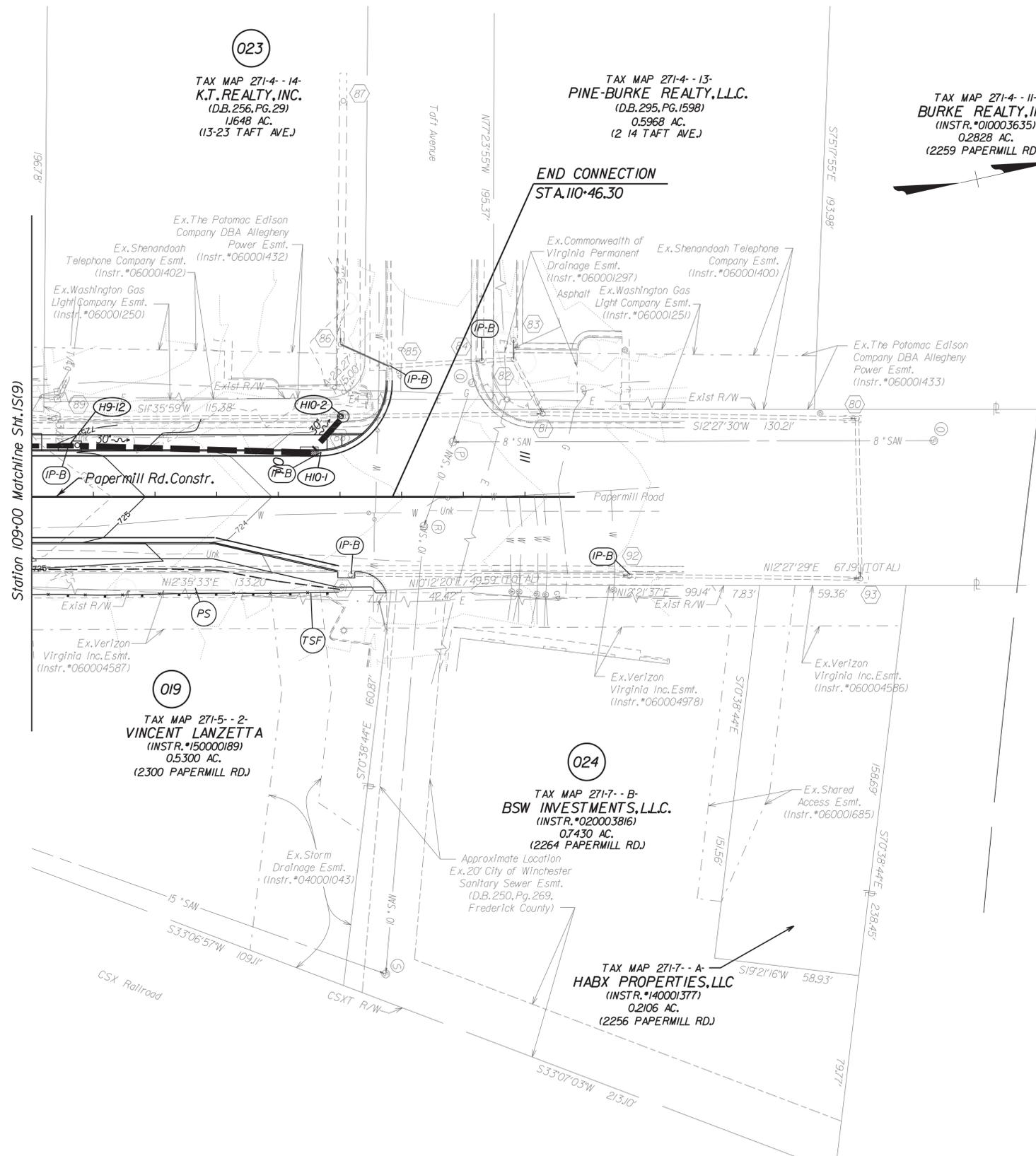
Brian Komar
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Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	15(10)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Old Dominion Blvd., Suite 100
 Fairfax, VA 22030
 (703) 334-0060
 www.rinker.com



PROJECT	SHEET NO.
RS14-138-R10	15(10)

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Bassem, M.J.D.* - Atlantic Utility Locating (703) 378-0100, August 2014

EROSION CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

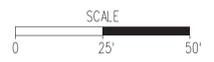
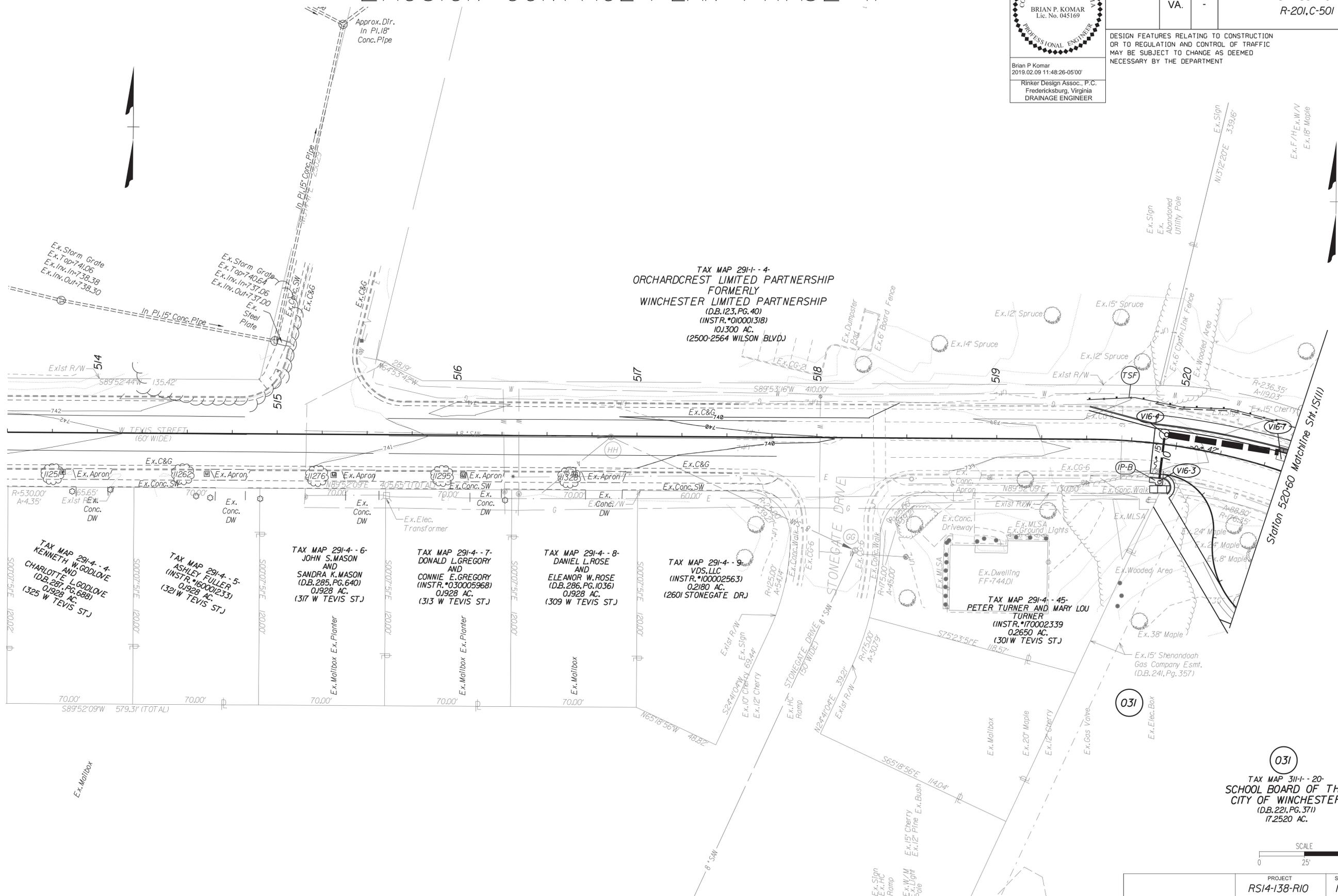
Brian P Komar
 2019.02.09 11:48:26-05'00"

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-RIO- R-201,C-501	15(13)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 W. Highway 101, Suite 100
 Fredericksburg, VA 22409
 (540) 368-7373
 Fax: (540) 368-7374
 brian.p.komar@rinker.com
 brian.p.komar@va.gov



031
 TAX MAP 311-1 - 20-
 SCHOOL BOARD OF THE
 CITY OF WINCHESTER
 (D.B. 221, PG. 371)
 17.2520 AC.

031
 Ex. Elec. Box

IP-B
 Ex. Conc. Walk

V16-4
 Ex. Conc. Apron

V16-3
 Ex. Conc. Walk

V16-7
 Ex. Conc. Walk

V16-6
 Ex. Conc. Walk

V16-5
 Ex. Conc. Walk

V16-4
 Ex. Conc. Walk

V16-3
 Ex. Conc. Walk

V16-2
 Ex. Conc. Walk

V16-1
 Ex. Conc. Walk

Office Locations
 Raleigh, NC
 Charlotte, NC
 Durham, NC
 Greensboro, NC
 Norfolk, VA
 Roanoke, VA
 Virginia Beach, VA
 Washington, DC
 Wilmington, NC
 Winston-Salem, NC

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

PROJECT MANAGER *Barry Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Banslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

See Sheet 2 of 3 for Acronyms

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10 R-201, C-501	17

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

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The City of Winchester RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION I GENERAL INFORMATION

1. Activity Description - The project involves the extension of Hope Drive from its current terminus at Wilson Boulevard. A new at grade railroad crossing will be created with the extension, and sections of Papermill Road and Tevis Street will be realigned to tie into the extension of Hope Drive. The existing at grade railroad crossing on both Papermill Road and Tevis Street will be eliminated. Portions of existing Hope Drive will also be realigned to improve safety.

2. This land disturbance (construction) activity site is located in the City of Winchester, VA. The project is within the limits of the Conococheague-Opequon watershed, and falls within two 12 Digit Hydrologic Unit Codes (HUC12). The first of these is HUC12 *020700040901, Opequon Creek-Sulphur Spring Run. The second is HUC12 *020700040902, Abrams Creek. Both HUC12s are located within VAHU6-PU16 which flows through Opequon Creek to the Potomac River. Total disturbed area for this project is 19.00 acres.

3. This proposed activity disturbs one acre or greater and requires coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 form) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing (construction) activity.

XX 4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

XX 5. Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form of the Construction General Permit coverage letter: (List permit number when applicable)

N/A 6. List the surface waters that have been identified as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, nitrogen or phosphorus. These pollutants are considered benthic impairments:

N/A 7. Identify the TMDLs where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2014 for sediment, total suspended solids, turbidity, nitrogen or phosphorus:

8. This land disturbance (construction) activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code:
N/A

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. (a) List the RLD for the land disturbance activity: (required for erosion and sediment control)
(b) The following individual(s) has delegated authority to sign all reports required by the construction permit including the SWPPP (LD445E) and inspection reports. The individual(s) has overall responsibility for environmental matters for the project: (required only for permitted projects)

Name	Position
_____	_____
_____	_____
_____	_____
_____	_____

X 12. The name of the individual(s) responsible for the inspection of the erosion and sediment control and pollution prevention measures on this land disturbance (construction) activity is identified on the LD-445E form which will be maintained with the other SWPPP documents for this land disturbance (construction) activity (Note: Individual(s) shall be certified through the DEQ ESC Inspector Certification Program and shall be knowledgeable in the area of pollution prevention at construction sites and shall be a VDOT employee or an agent working for VDOT.)

X 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow either Schedule 1 or 2 as defined in Section 107.16(e) of the VDOT Road & Bridge Specifications Special Provision S107J31. Rain gage notes apply only to Inspection Schedule 1.

XX 14. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance (construction) activity: (List location of rain gage)

The rain gage shall be observed daily at 10:00 AM to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage. If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

15. The following VDOT documents serve the purpose of a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 S.F. to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:

- VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
- VDOT LD-445A: Permitted projects only.
- VDOT LD-445B: Permitted projects only.
- VDOT LD-445C: Projects that require a permit or SWPPP.
- VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
- VDOT LD-445E: Permitted projects only.
- VDOT LD-445F: Emergency work projects (when applicable).
- VDOT LD-445G: Permitted and CBPA projects requesting a Water Quality Requirement Exception (when applicable).
- VDOT LD-445H: Permitted projects only.
- VDOT C-107 Part I and Part II: All projects that require a permit or SWPPP.

SECTION II EROSION AND SEDIMENT CONTROL

1. The following variances to the Virginia ESC Regulations have been approved by the DEQ for this land disturbance (construction) activity: (list all approved variances; include a brief description of the variance, the date approved and the approving DEQ Office)

XX 2. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.

3. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

4. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

X Denotes information that is to be provided/completed by the City of Winchester RLD.
XX Denotes information that is to be provided/completed by the contractor.

7. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section III.

XX 8. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity: (List how this will be tracked and the location)

9. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in Sections 107.16 and 303.03 of the VDOT R&B Specifications.

10. Nutrients shall be applied in accordance with Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events.

11. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the City of Winchester Hydraulics Section and will be made available for review upon request during normal business hours.

12. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the City of Winchester Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable City of Winchester Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.

13. The areas beyond the project's construction area are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

14. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.

15. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.

16. The contractor shall plan and implement his land disturbance operations in order to:

- a. Control the volume and velocity of stormwater runoff within the site to minimize erosion.
- b. Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.
- c. Minimize the amount of soil exposed.
- d. Minimize the disturbance of steep slopes.
- e. Minimize sediment discharge from the site.
- f. Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
- g. Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

XX 17. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.

18. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be stabilized or protected with sediment trapping measures.

19. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.

Office Locations
 Raleigh, NC
 Charlotte, NC
 Norfolk, VA
 Virginia Beach, VA
 Roanoke, VA
 Richmond, VA
 Alexandria, VA
 Fairfax, VA
 Falls Church, VA
 Herndon, VA
 Leesville, VA
 Norfolk, VA
 Petersburg, VA
 Suffolk, VA
 Virginia Beach, VA
 York, VA

Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Environmental Engineering - Right of Way Services

PROJECT MANAGER Barry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giannetti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew Banslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The City of Winchester RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION III SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as a copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

✖✖ 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

✖ 4. By completing and submitting the SWPPP Certification form LD-445E, the RLD, or his authorized representative, certifies that all documents identified herein to be supplied by the contractor will be reviewed, approved (as applicable) and included with the other SWPPP documents for this land disturbance (construction) activity prior to start of work in those areas identified by such information.

5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

✖ 6. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the City of Winchester RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the City of Winchester person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

7. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the the City of Winchester and shall be scheduled during normal business hours and no less than once per month.

ACRONYMS

BMP - Best Management Practice	TMDL - Total Maximum Daily Load
DEQ - Department of Environmental Quality	VDOT - Virginia Department of Transportation
EPA - U.S. Environmental Protection Agency	VPDES - Virginia Pollutant Discharge Elimination System
ESC - Erosion and Sediment Control	VSMP - Virginia Stormwater Management Program
IIM - Instructional and Informational Memorandum	VESCP - Virginia Erosion and Sediment Control Program
R&B - Road and Bridge	
RLD - Responsible Land Disturber	
SWM - Stormwater Management	
SWPPP - Stormwater Pollution Prevention Plan	

SECTION IV POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1 or 2 that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

~~N/A 1. This land disturbance (construction) activity is grandfathered under Section 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical criteria (i.e., Performance or Technology Based, MS 19, etc.) in Section 9VAC25-870-93 et seq. of the VSMP Regulations.~~

2. This land disturbance (construction) activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

~~N/A 3. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance (construction) activity by the DEQ in its letter dated (date).~~

~~N/A 4. The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)~~

5. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

6. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

7. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the City of Winchester Hydraulics Section and will be made available for review upon request during normal working business hours.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:

- Wastewater from concrete washouts.
- Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
- Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
- Oils, toxic substances or hazardous substances from spills or other releases.
- Soaps, solvents or detergents used in equipment and vehicle washing.
- There shall be no discharge of floating solids or visible foam in other than trace amounts

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:

- Discharges from fire fighting activities.
- Fire hydrant flushings.
- Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
- Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
- Potable water sources including uncontaminated waterline flushings.
- Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

✖ Denotes information that is to be provided/completed by the City of Winchester
 ✖✖ Denotes information that is to be provided/completed by the contractor.

- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
- Uncontaminated air conditioning or compressor condensate.
- Uncontaminated ground water or spring water.
- Foundation or footing drains where flows are not contaminated with process materials such as solvents.
- Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
- Landscape irrigation.

✖✖ 3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:

- Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
- Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
- Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
- Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
- Describe the pollution prevention practices and procedures that will be implemented to:

- Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.
- Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
- Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.
- Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
- Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.
- Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.
- Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes.
- Address any other discharge from any potential pollutant-generating activity not listed herein.
- Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

Revised 8/18/2017

Sheet 2 of 3

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	-	RS14-138-R10-R-201,C-501	17(1)

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

	PROJECT RS14-138-R10	SHEET NO. 17(1)
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PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

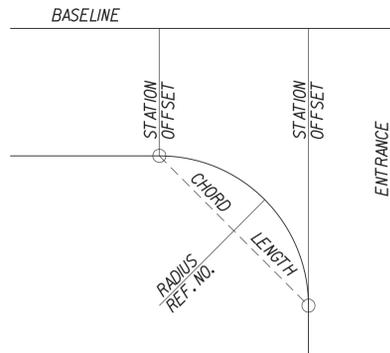
John A. Giometti
2019.08.20 17:00:35-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	1W

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

RADIAL OFFSET AND BULLET NOSE DATA

RADIAL OFFSETS / BULLET NOSE DATA



LOCATION (REF. NO.)	BASELINE			BASELINE			RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH	LOCATION (REF. NO.)	BASELINE			CONNECTION			RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH	LOCATION (REF. NO.)	BASELINE			CONNECTION			RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH					
SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	FEET	FEET	SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	FEET	FEET	SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	FEET	FEET	FEET				
3-1	10-65.44 (Hope)	24.50' LT	10-30.44 (Hope)	59.36' LT	35.00	49.39	54.84	6-4	28-43.97 (Hope)	17.00' RT	28-13.94 (Hope)	41.47' RT	27.00	37.08	40.87	9-14	108-38.22 (Papermill)	16.50' LT	108-26.22 (Papermill)	28.50' LT	12.00	16.97	18.85											
3-2	11-34.08 (Hope)	24.50' LT	11-56.42 (Hope)	47.15' LT	20.00	30.46	34.63	6-5	32-92.99 (Hope)	17.00' RT	33-19.99 (Hope)	44.07' RT	27.00	38.23	42.48	9-15	108-98.03 (Papermill)	16.50' LT	108-86.03 (Papermill)	28.50' LT	12.00	16.97	18.85											
3-3	12-13.46 (Hope)	24.50' LT	11-91.00 (Hope)	45.07' LT	20.00	29.07	32.54	6-6	33-78.99 (Hope)	17.00' RT	33-51.99 (Hope)	43.93' RT	27.00	38.13	42.34	9-16	107-95.18 (Papermill)	16.50' RT	108-12.18 (Papermill)	33.50' RT	17.00	24.04	26.70											
3-4	12-85.99 (Hope)	24.26' LT	13-05.56 (Hope)	47.80' LT	18.00	29.57	34.71	7-1	35-54.23 (Hope)	17.00' RT	100-83.95 (Papermill)	16.50' LT	52.00	79.93	91.6	9-17	108-73.00 (Papermill)	16.50' RT	108-51.00 (Papermill)	38.50' RT	22.00	31.11	34.56											
3-5	10-64.98 (Hope)	25.50' RT	10-29.98 (Hope)	60.51' RT	35.00	49.51	54.84	7-2	36-77.65 (Hope)	28.00' LT	100-55.64 (Papermill)	16.50' RT	52.00	57.43	60.85	9-18	107-90.60 (Papermill)	16.50' LT	108-02.60 (Papermill)	28.50' LT	12.00	16.97	18.85											
3-6	11-43.46 (Hope)	25.50' RT	11-61.45 (Hope)	45.87' RT	20.00	28.24	31.35	7-3	37-72.62 (Hope)	28.00' LT	11-12.73 (Frontage)	15.00' LT	28.00	57.35	76.35	9-19	108-47.71 (Papermill)	14.46' LT	108-59.71 (Papermill)	28.50' LT	12.00	16.97	18.85											
3-7	12-07.69 (Hope)	25.50' RT	11-94.53 (Hope)	51.08' RT	17.00	29.35	35.42	7-4	10-37.04 (Frontage)	31.68' RT	10-50.92 (Frontage)	17.97' RT	50.00	24.43	24.66	9-20	104-55.91 (Papermill)	40.12' LT	104-49.67 (Papermill)	43.71' LT	5.00	6.79	7.71											
3-8	12-95.63 (Hope)	24.90' RT	13-12.72 (Hope)	52.31' RT	20.00	33.19	39.14	7-5	11-61.13 (Frontage)	15.00' RT	11-76.39 (Frontage)	28.35' RT	18.00	20.23	21.54	9-21	104-56.08 (Papermill)	40.16' LT	104-59.71 (Papermill)	45.67' LT	4.50	6.51	7.28											
3-9	11-61.25 (Hope)	51.37' RT	11-54.46 (Hope)	64.02' RT	15.00	14.83	15.52	7-6	12-49.27 (Frontage)	15.00' RT	12-22.17 (Frontage)	37.43' RT	25.00	34.02	37.41	10-1	110-16.19 (Papermill)	16.50' LT	110-46.19 (Papermill)	47.04' LT	30.00	42.81	47.67											
3-10	11-94.53 (Hope)	51.08' RT	11-97.89 (Hope)	55.93' RT	25.00	6.16	6.18	7-7	40-62.24 (Hope)	17.00' LT	40-81.11 (Hope)	30.36' LT	20.00	23.12	24.65	10-3	10-71.23 (Front.Cul)	0.00' LT	10-07.36 (Front.Ent)	13.36' LT	25.00	17.99	18.40											
3-11	10-53.71 (Hope)	9.50' RT	10-53.71 (Hope)	13.50' RT	2.00	4.00	6.28	7-8	36-73.30 (Hope)	5.00' RT	36-73.30 (Hope)	5.00' LT	5.00	10.00	15.71	10-4	11-22.22 (Front.Cul)	0.00' LT	10-23.93 (Front.Ent)	11.29' RT	25.00	29.70	31.80											
3-12	12-52.40 (Hope)	9.50' RT	12-52.40 (Hope)	13.50' RT	2.00	4.00	6.28	7-9	11-76.39 (Frontage)	28.35' RT	11-70.33 (Frontage)	39.04' RT	10.00	12.28	13.23	11-1	520-64.00 (Tewis)	10.35' LT	12-63.63 (Tewis Cul)	14.43' RT	26.00	26.72	28.07											
4-1	13-57.42 (Hope)	21.91' LT	13-34.74 (Hope)	39.38' LT	22.00	27.29	29.44	7-10	37-48.32 (Hope)	5.00' RT	37-48.32 (Hope)	5.00' LT	5.00	10.00	15.71																			
4-2	13-66.79 (Hope)	21.06' RT	13-52.87 (Hope)	41.92' RT	17.00	25.69	29.12	7-11	38-09.53 (Hope)	5.00' RT	38-09.53 (Hope)	5.00' LT	5.00	10.00	15.71																			
4-3	13-98.02 (Hope)	18.30' RT	14-25.71 (Hope)	45.00' RT	27.00	39.21	43.88	7-12	39-30.62 (Hope)	4.69' RT	39-34.39 (Hope)	5.00' RT	25.00	14.71	14.93																			
4-4	14-67.02 (Hope)	17.00' RT	14-36.89 (Hope)	45.89' RT	27.00	40.17	45.31	7-13	40-02.63 (Hope)	5.00' RT	40-02.63 (Hope)	5.00' LT	5.00	10.00	15.71																			
4-5	14-81.85 (Hope)	17.00' RT	15-08.66 (Hope)	57.34' RT	27.00	47.11	57.24	7-14	38-53.75 (Hope)	5.00' LT	38-56.50 (Hope)	4.16' LT	5.00	2.90	2.95																			
4-6	15-36.80 (Hope)	43.99' RT	15-40.72 (Hope)	48.43' RT	5.00	5.64	5.99	7-15	38-67.57 (Hope)	3.58' RT	38-67.31 (Hope)	5.00' RT	1.00	1.92	2.58																			
4-7	15-56.20 (Hope)	17.00' RT	15-36.51 (Hope)	38.51' RT	18.00	26.79	30.22	7-16	38-92.24 (Hope)	3.03' LT	38-92.47 (Hope)	5.00' LT	1.00	1.99	2.91																			
4-8	15-68.38 (Hope)	19.00' RT	15-88.04 (Hope)	39.55' RT	18.00	27.48	31.26	7-17	38-96.78 (Hope)	22.97' LT	39-18.99 (Hope)	17.00' LT	50.00	23.84	24.05																			
4-9	15-88.04 (Hope)	39.55' RT	15-88.50 (Hope)	51.85' RT	41.00	12.31	12.36	8-1	41-25.59 (Hope)	17.00' LT	41-10.71 (Hope)	33.86' LT	15.00	22.49	25.43																			
4-10	15-88.50 (Hope)	51.85' RT	15-81.70 (Hope)	57.63' RT	5.00	8.25	9.70	8-2	45-12.23 (Hope)	25.67' RT	45-29.23 (Hope)	40.11' LT	17.00	20.72	22.36																			
4-11	16-43.64 (Hope)	17.00' RT	16-19.23 (Hope)	60.56' RT	27.00	48.81	60.98	8-3	42-88.22 (Hope)	19.87' RT	43-12.44 (Hope)	50.20' RT	34.00	40.80	43.01																			
4-12	17-74.87 (Hope)	16.38' RT	18-02.16 (Hope)	46.08' RT	27.00	40.37	45.59	8-4	43-68.84 (Hope)	29.11' RT	43-33.99 (Hope)	56.93' RT	47.00	48.95	51.48																			
4-13	18-68.24 (Hope)	16.43' RT	18-37.40 (Hope)	43.50' RT	29.36	41.03	45.43	8-5	44-19.59 (Hope)	31.35' RT	44-47.13 (Hope)	52.49' RT	37.00	38.11	40.06																			
4-14	18-02.16 (Hope)	46.08' RT	17-95.02 (Hope)	58.70' RT	18.00	14.50	14.93	9-1	103-06.21 (Papermill)	16.50' LT	103-24.01 (Papermill)	26.65' LT	20.00	20.23	21.21																			
5-1	22-28.93 (Hope)	16.71' LT	800-48.89 (Valor)	17.84' RT	32.00	43.91	48.39	9-2	103-24.00 (Papermill)	26.63' LT	103-19.59 (Papermill)	34.14' LT	5.00	8.64	10.42																			
5-2	21-41.56 (Hope)	16.62' RT	21-70.26 (Hope)	45.80' RT	27.00	39.40	44.16	9-3	102-83.24 (Papermill)	32.12' LT	102-88.18 (Papermill)	34.17' LT	7.00	5.36	5.50																			
5-3	22-34.33 (Hope)	17.28' RT	22-04.23 (Hope)	42.88' RT	27.00	37.84	41.93	9-4	103-94.99 (Papermill)	16.50' LT	103-74.64 (Papermill)	32.76' LT	20.00	25.66	27.86																			
5-4	24-81.56 (Hope)	17.00' RT	900-54.68 (Wilson)	15.79' RT	42.00	55.24	60.28	9-5	104-66.38 (Papermill)	16.50' LT	104-83.51 (Papermill)	37.49' LT	17.00	26.81	30.88																			
5-5	25-78.60 (Hope)	17.00' RT	900-51.78 (Wilson)	15.51' LT	37.00	49.64	54.41	9-6	104-83.30 (Papermill)	38.37' LT	104-68.86 (Papermill)	47.37' LT	12.00	16.49	18.18																			
5-6	25-76.75 (Hope)	83.58' RT	25-72.28 (Hope)	88.12' RT	5.00	7.05	7.83	9-7	105-73.04 (Papermill)	16.50' LT	300-62.32 (Roosevelt)	12.00' LT	37.00	57.07	65.18																			
5-7	25-68.76 (Hope)	225.10' RT	25-65.74 (Hope)	219.81' RT	5.00	7.47	7.82	9-8	105-44.46 (Papermill)	16.50' LT	105-42.95 (Papermill)	36.39' LT	10.00	19.95	29.95																			
5-8	27-28.37 (Hope)	49.29' RT	27-22.60 (Hope)	53.40' RT	5.00	7.08	7.87	9-9	106-81.96 (Papermill)	16.50' LT	300-52.57 (Roosevelt)	12.00' RT	42.00	56.30	61.71																			
5-9	21-70.26 (Hope)																																	

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew Ranslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

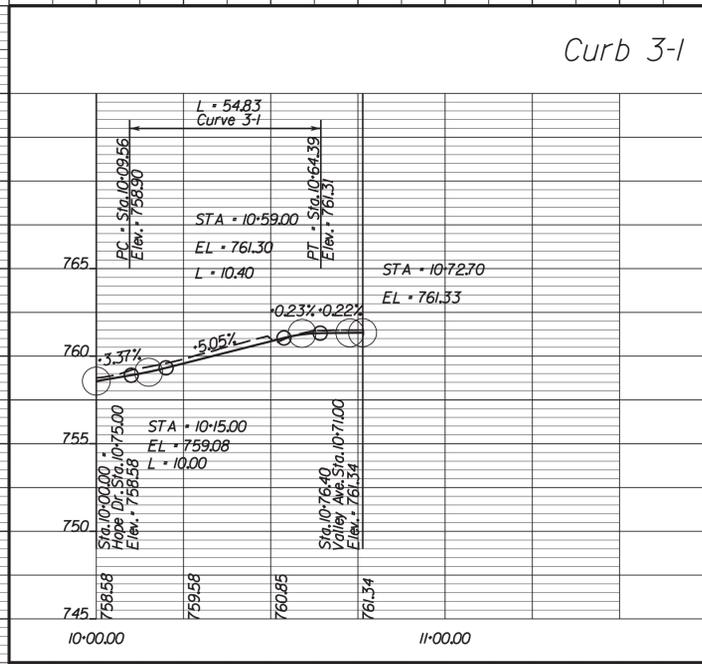
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER
 John A. Giometti
 2019.02.13
 14:23:40 -05'00'
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201,C-501	W(1)

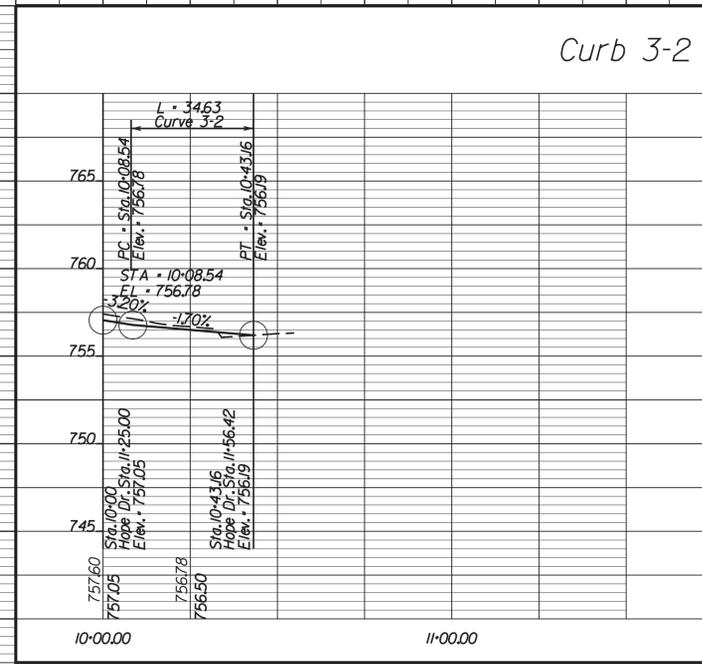
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CURB RETURN PROFILES

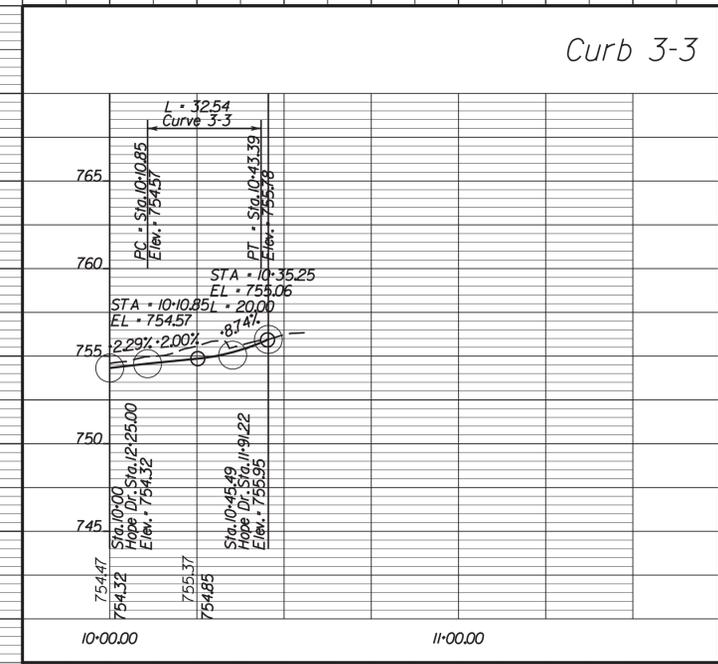
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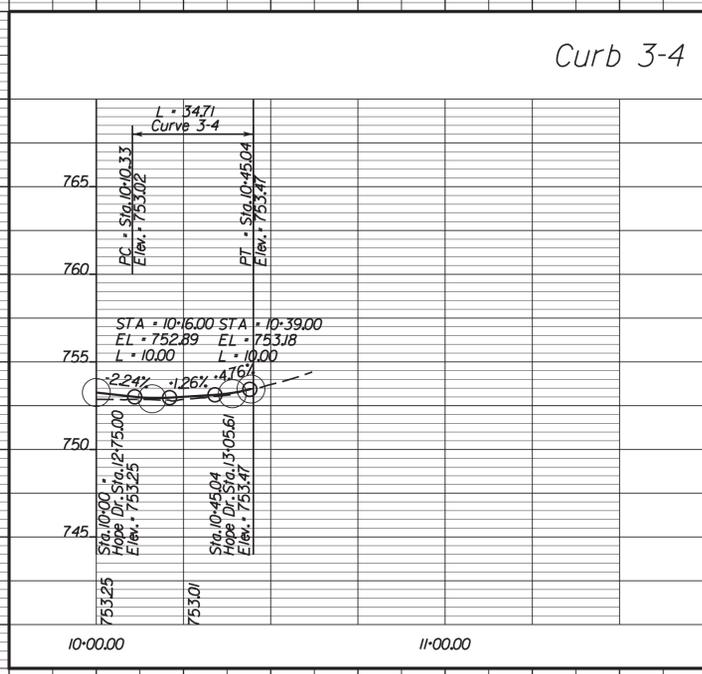
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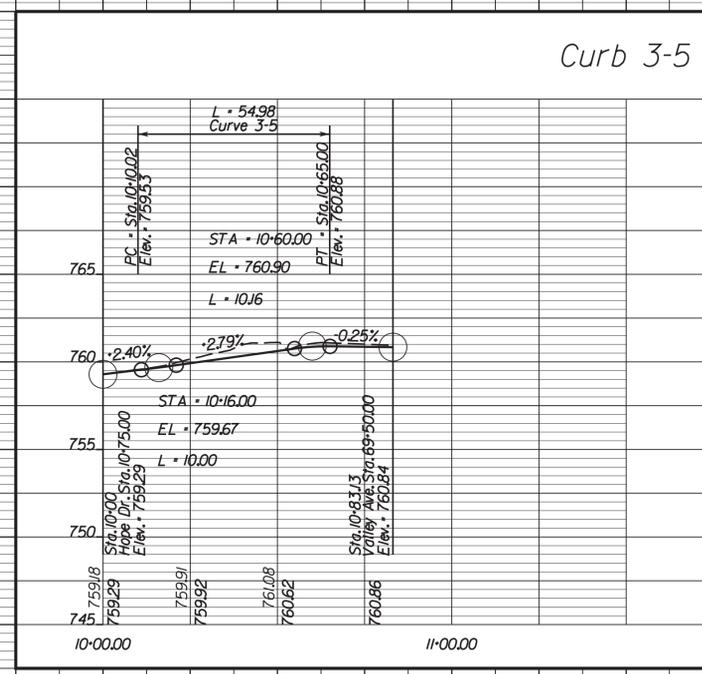
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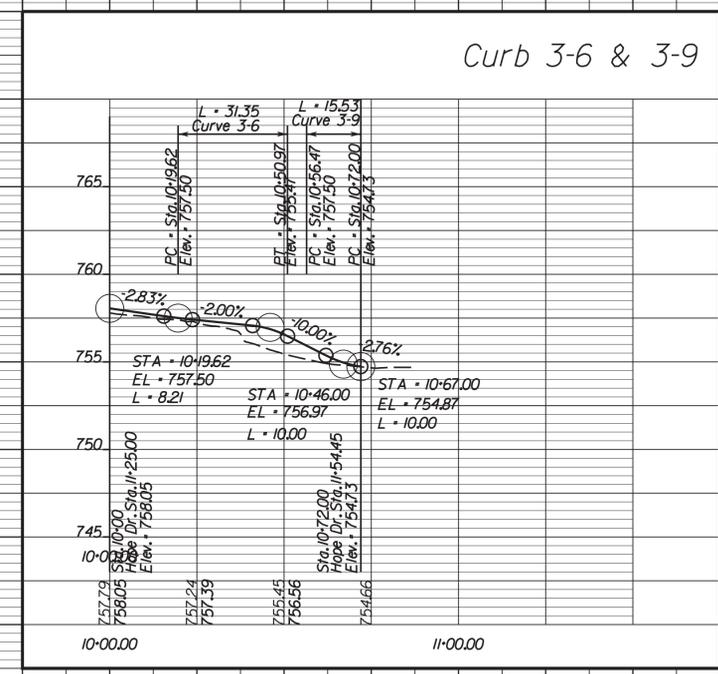
Curb 3-4



Curb 3-5



Curb 3-6 & 3-9



Scale
 2.5' / 25'

Office Locations: Richmond, VA; Norfolk, VA; Charlottesville, VA; Alexandria, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Leesville, VA; Lynchburg, VA; Manassas, VA; Manassas Park, VA; Newport News, VA; Norfolk, VA; Petersburg, VA; Roanoke, VA; Salem, VA; Sta. Albans, VA; Suffolk, VA; Tidewater, VA; Virginia Beach, VA; Winchester, VA; York, VA
 Rinker Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Right of Way Services

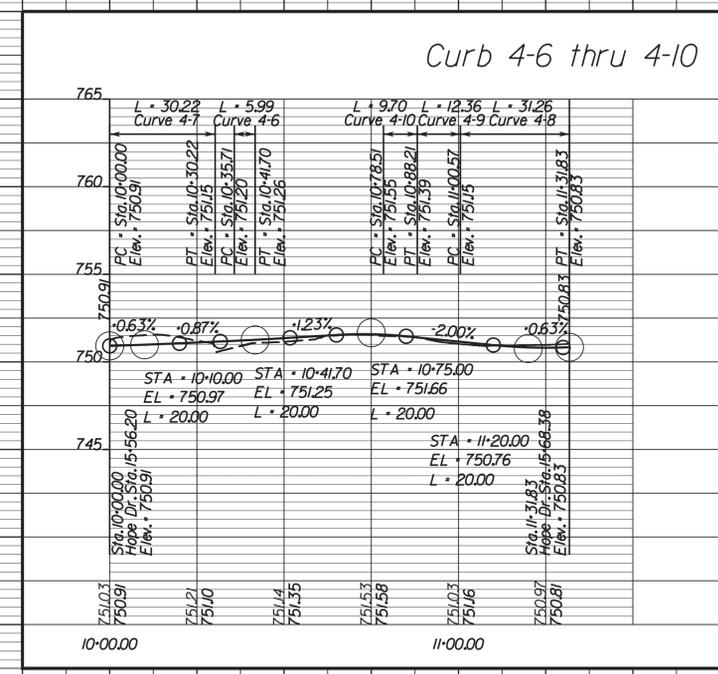
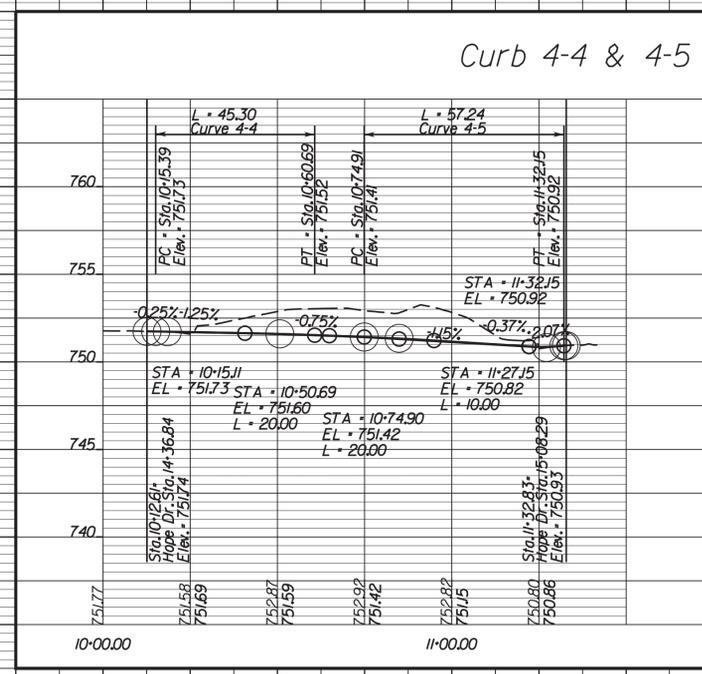
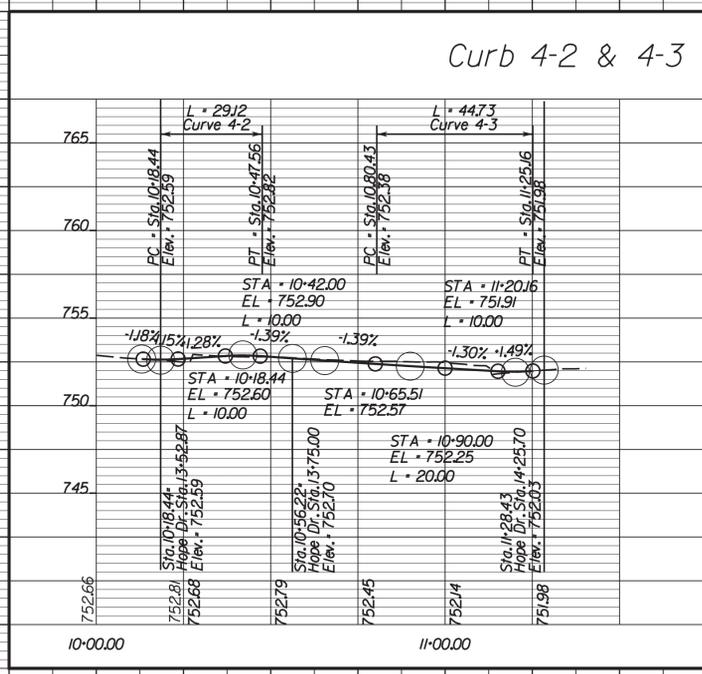
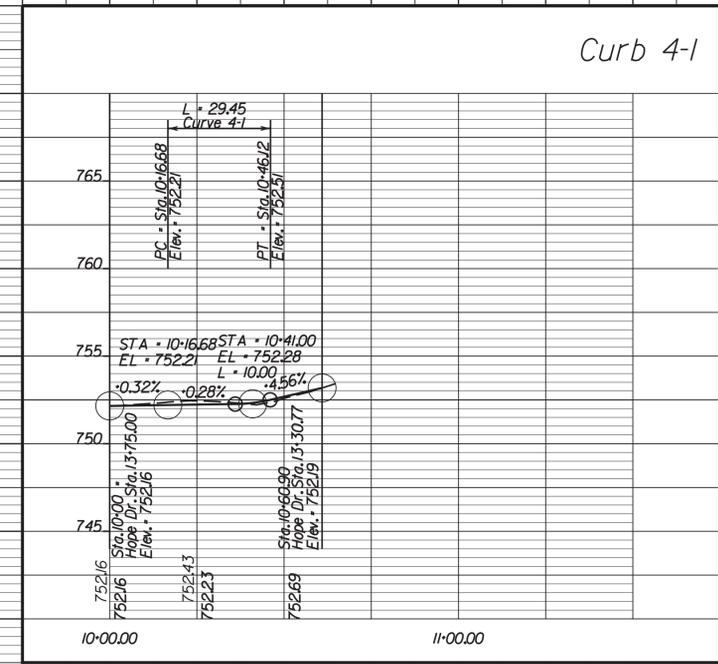
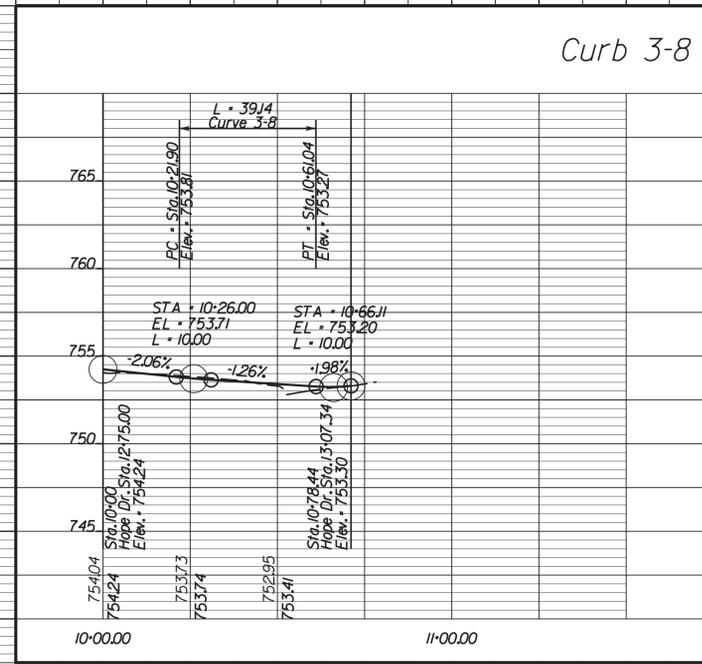
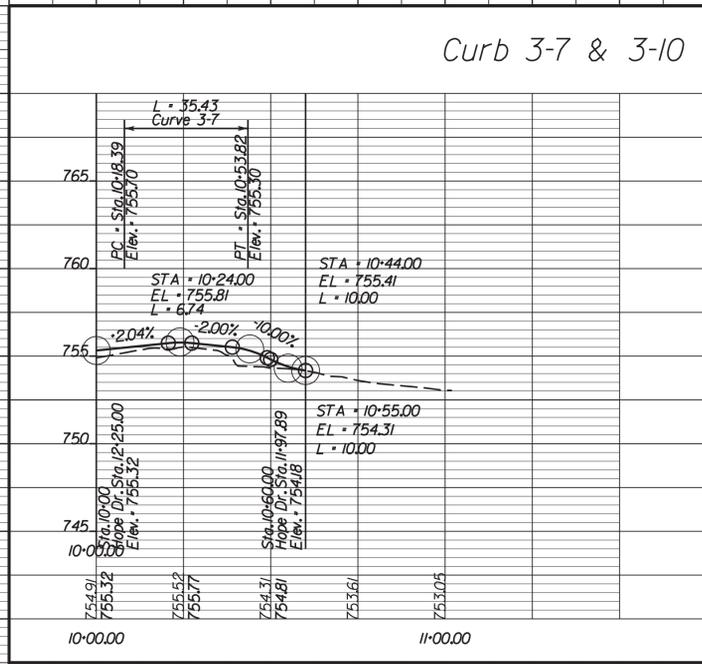
PROJECT MANAGER Perry, Eisenach, P.E., City of Winchester (540) 662-2085
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	VA.		RS14-138-R10 R-201, C-501	M(2)

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

CURB RETURN PROFILES



Scale
2.5' = 25'

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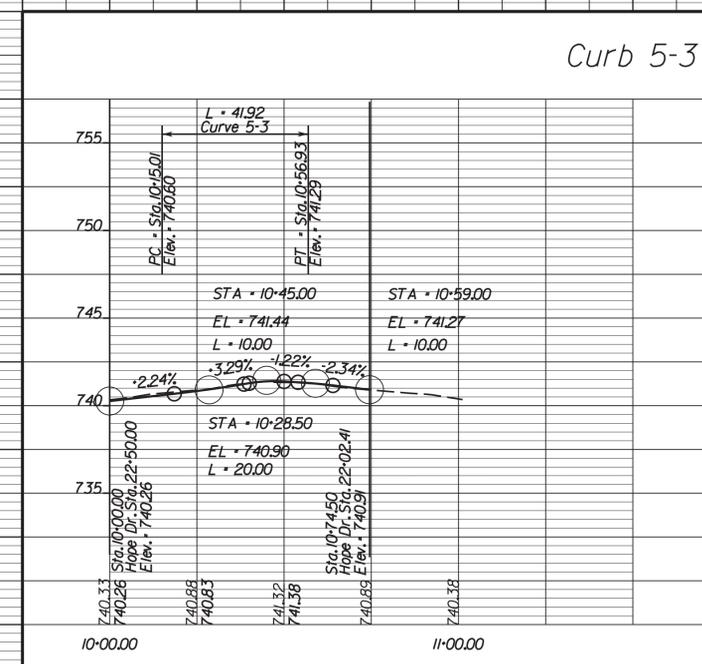
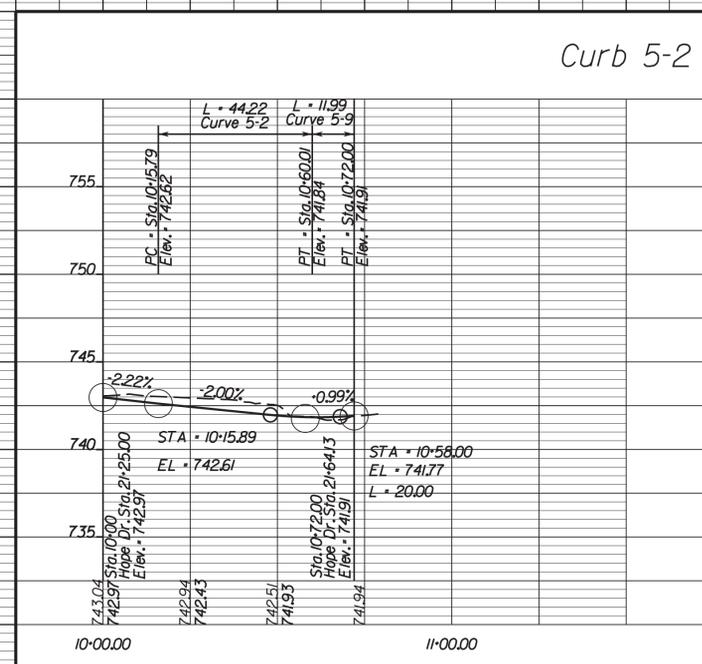
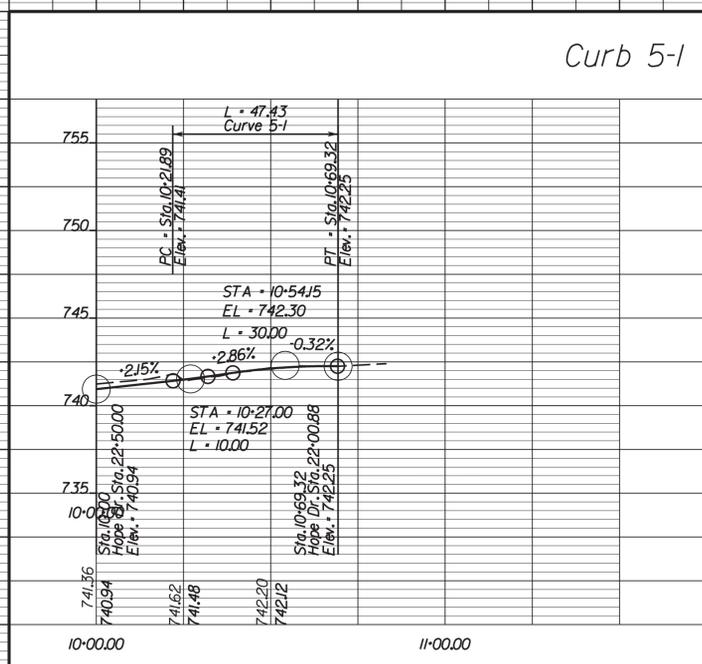
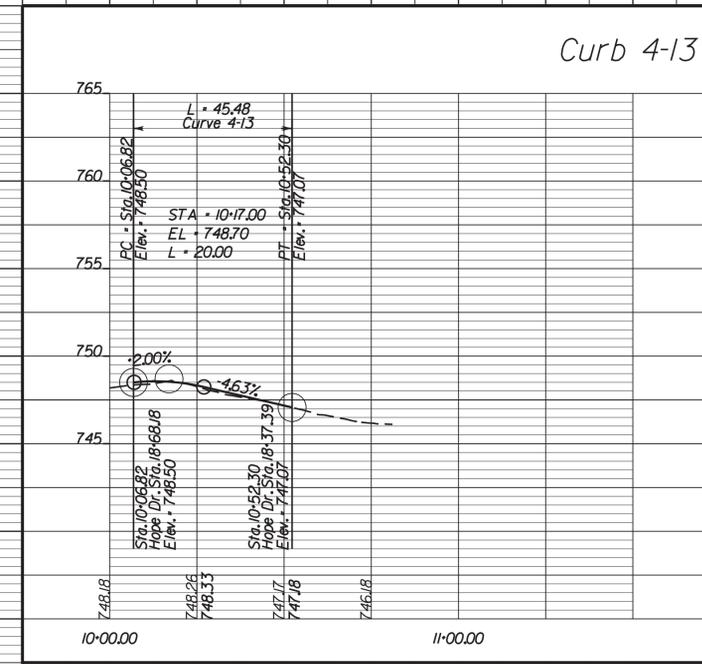
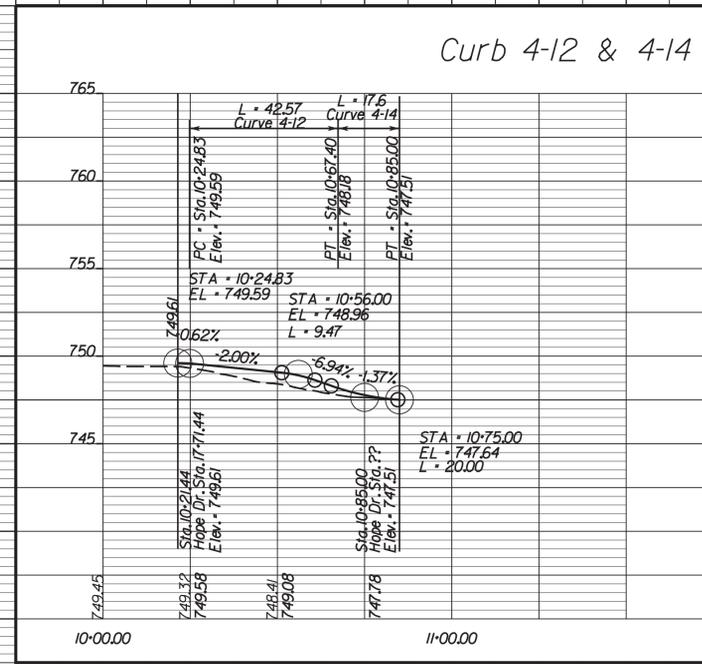
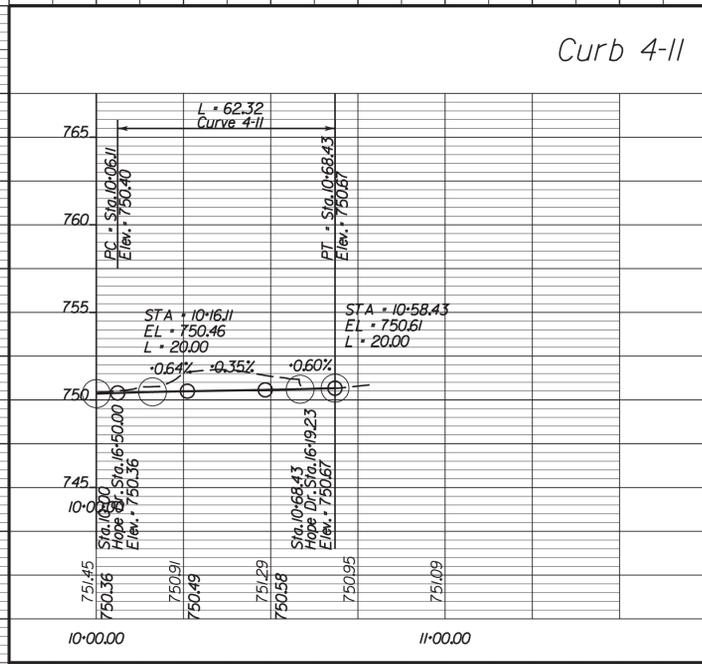
PROJECT MANAGER *Ecory, Eisenach, P.E.* - City of Winchester (540) 662-2085
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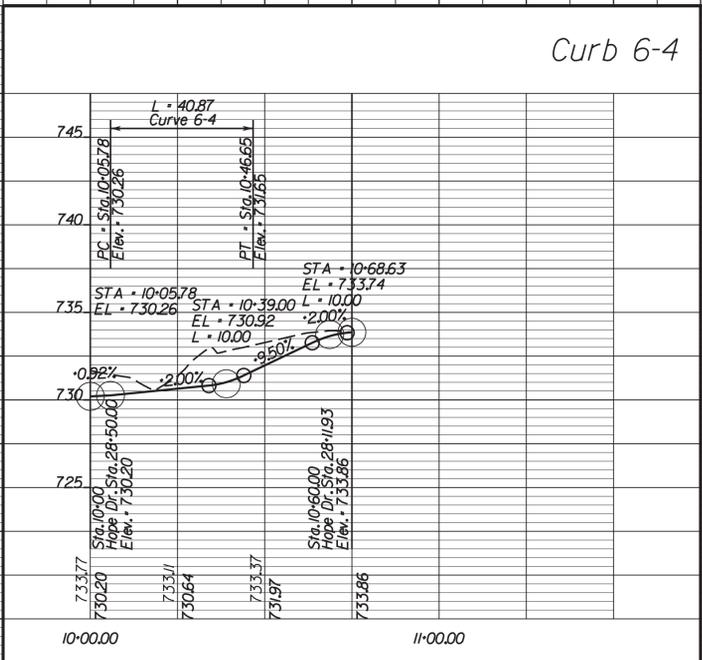
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201, C-501	W(5)

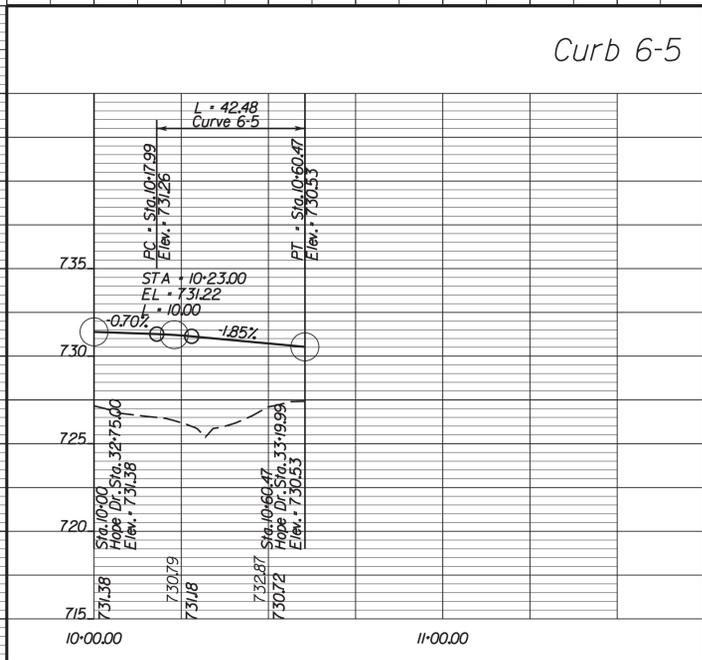
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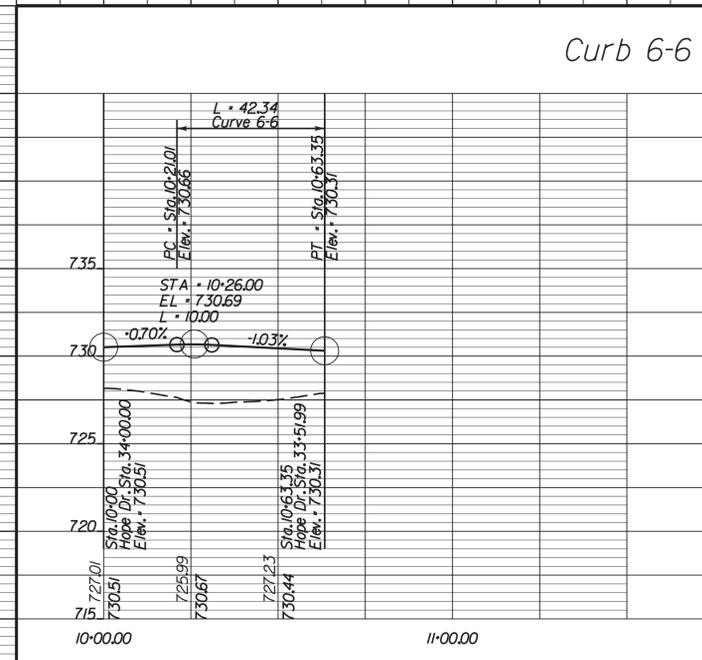
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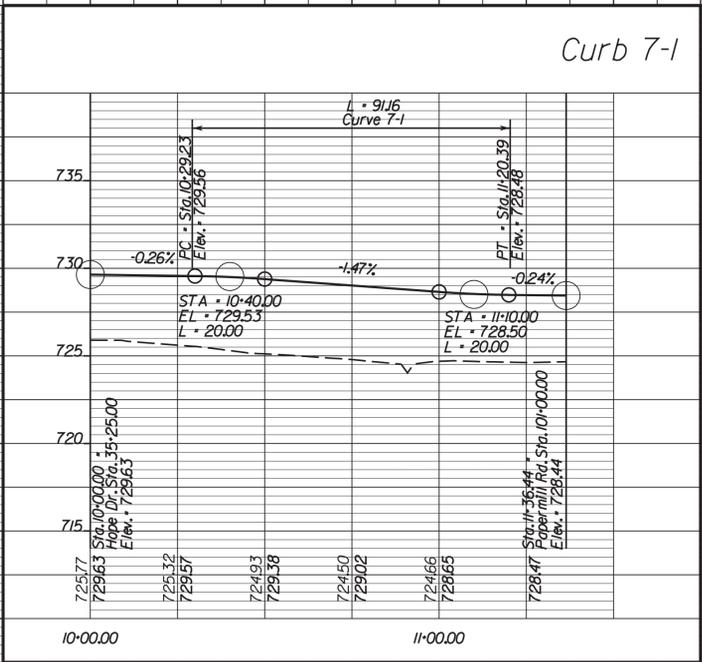
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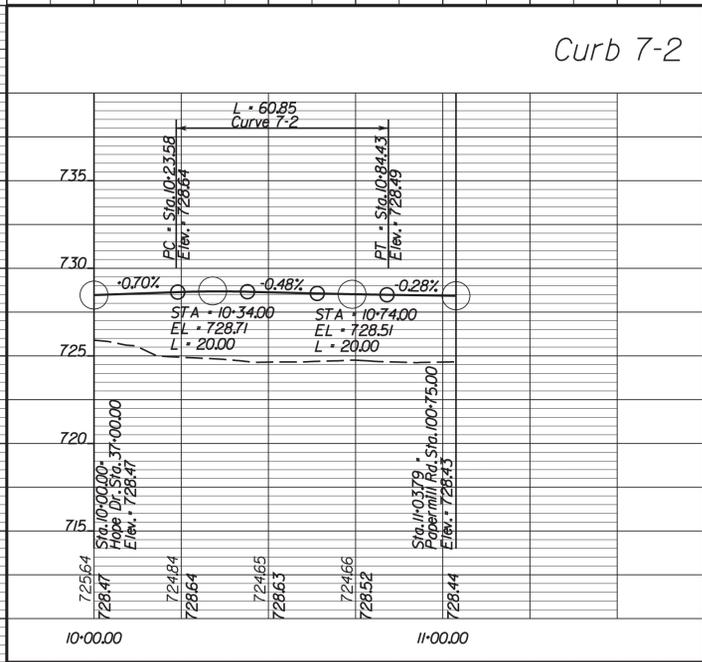
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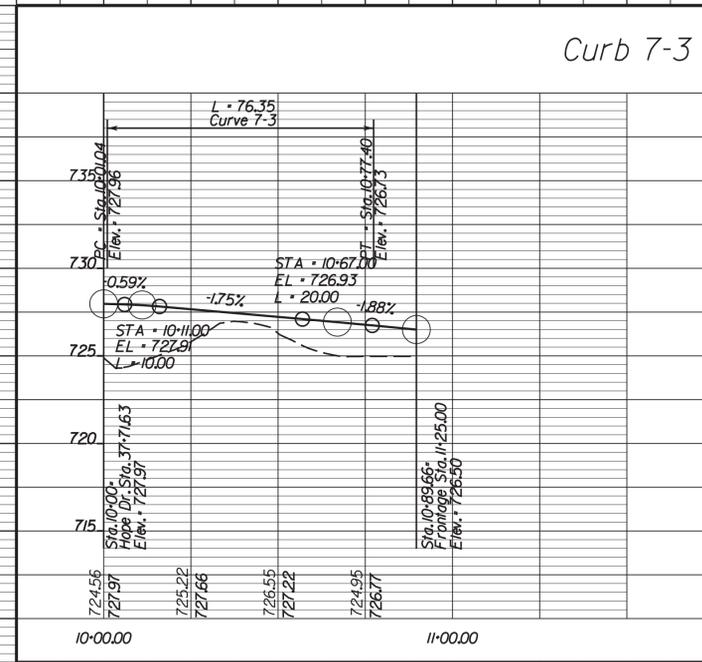
Curb 7-1



Curb 7-2



Curb 7-3



Scale
2.5' / 25'

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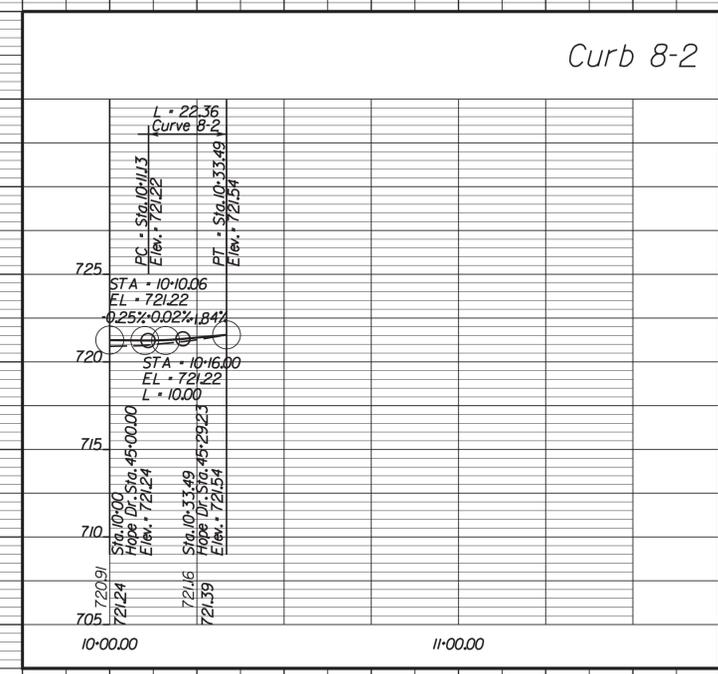
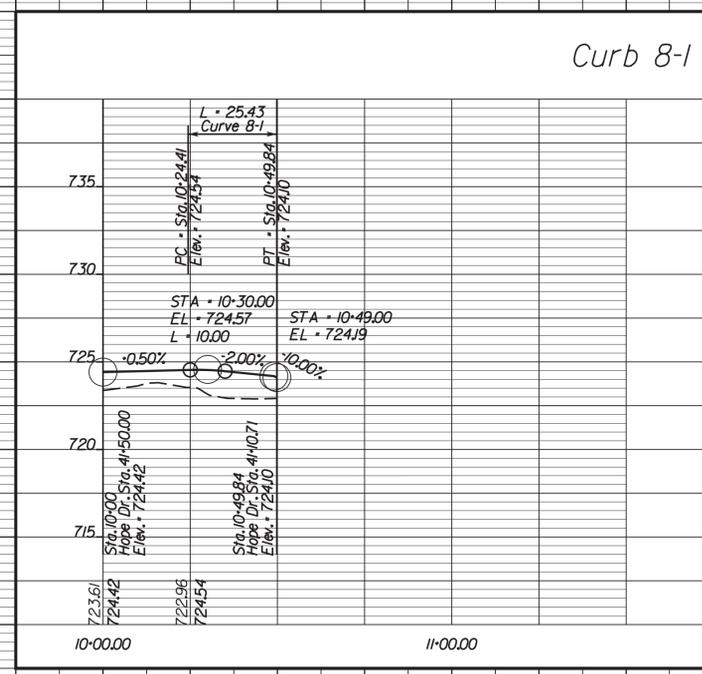
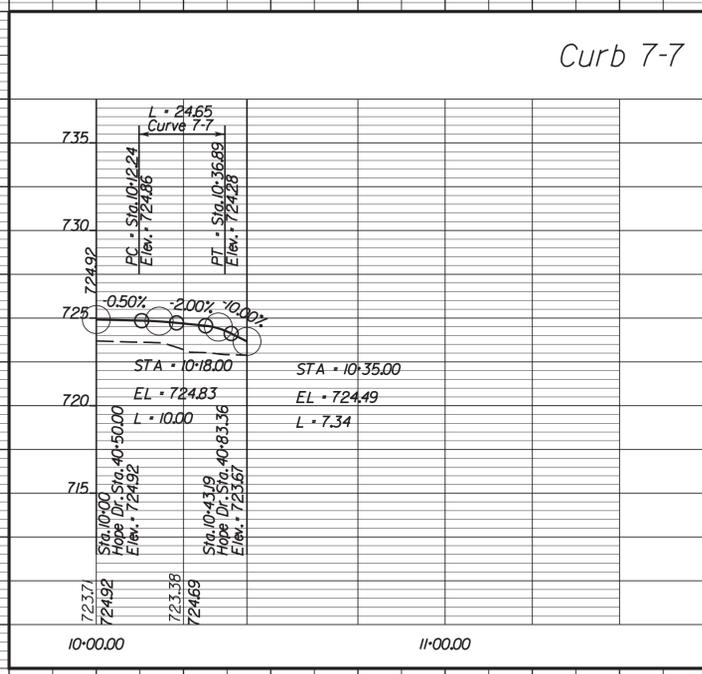
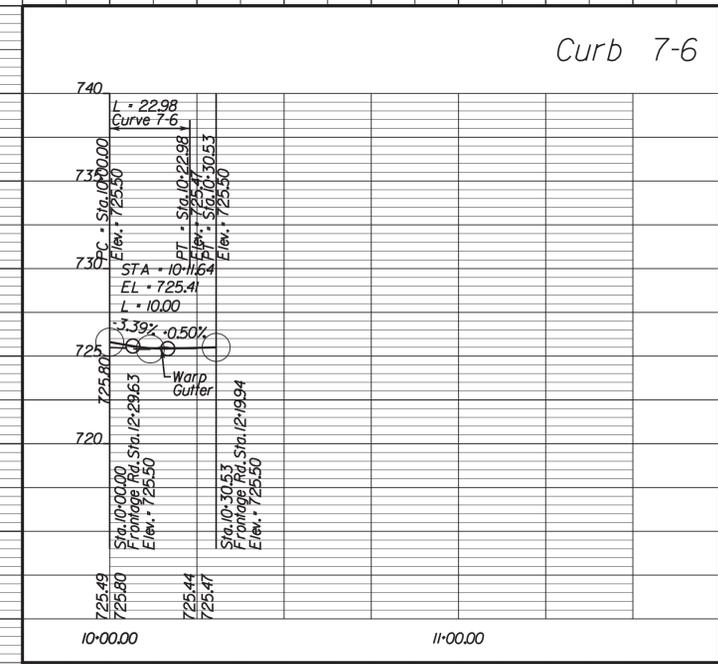
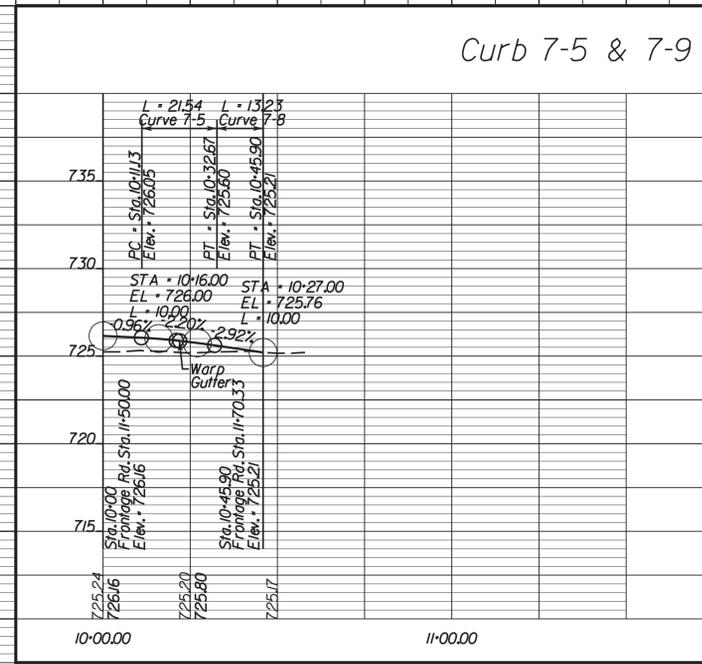
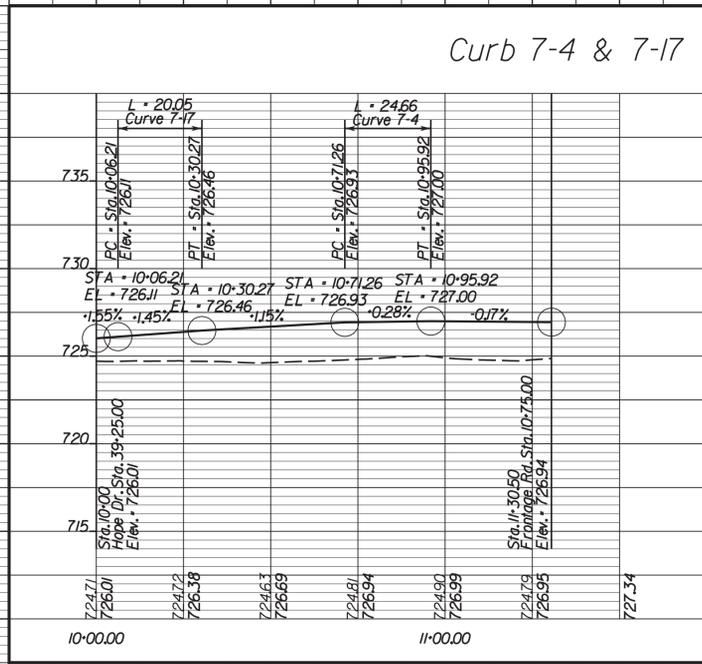
PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
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ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201,C-501	W(6)

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CURB RETURN PROFILES



2.5" Scale
25'

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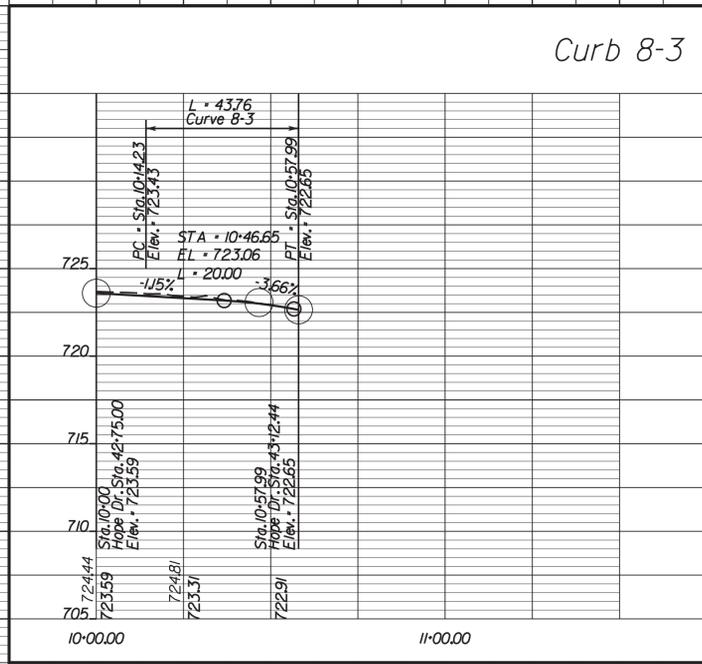
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 ROADWAY ENGINEER

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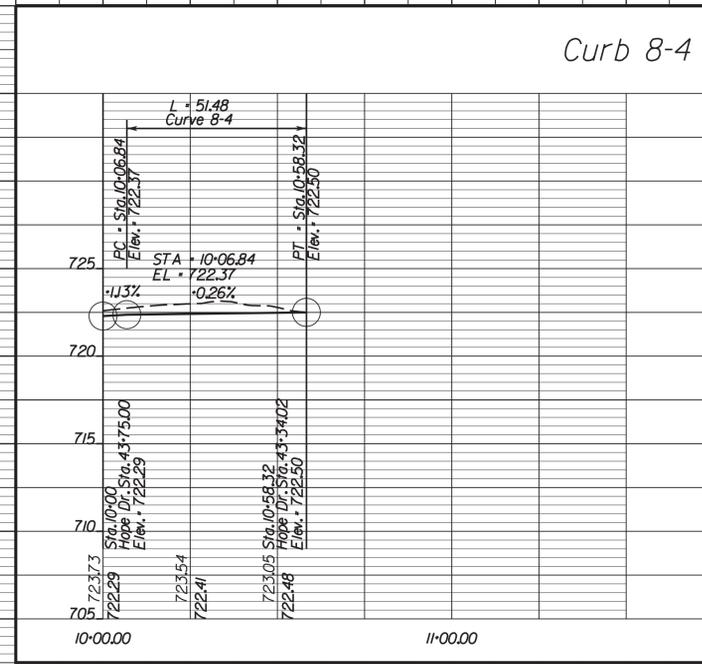
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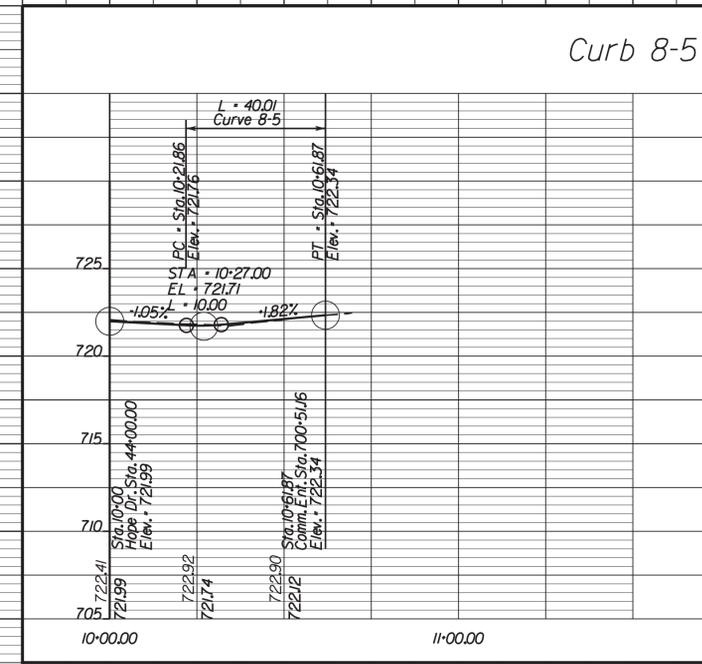
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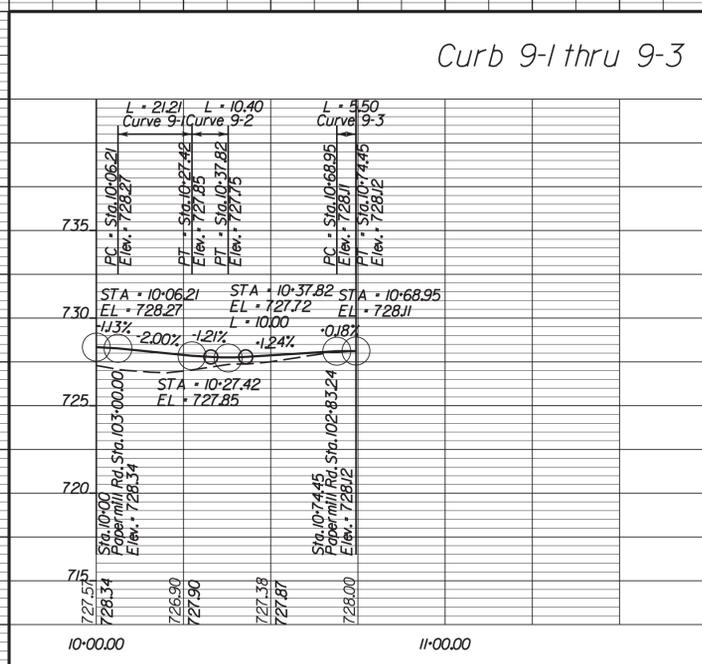
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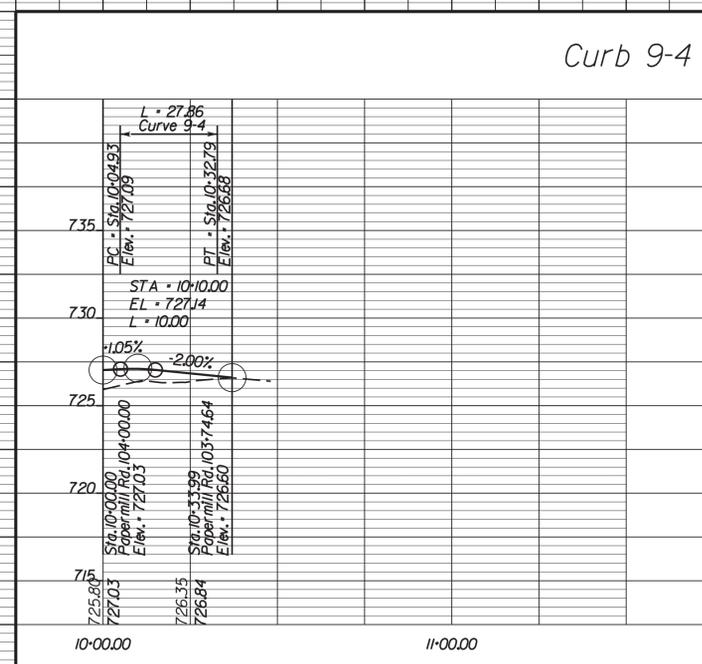
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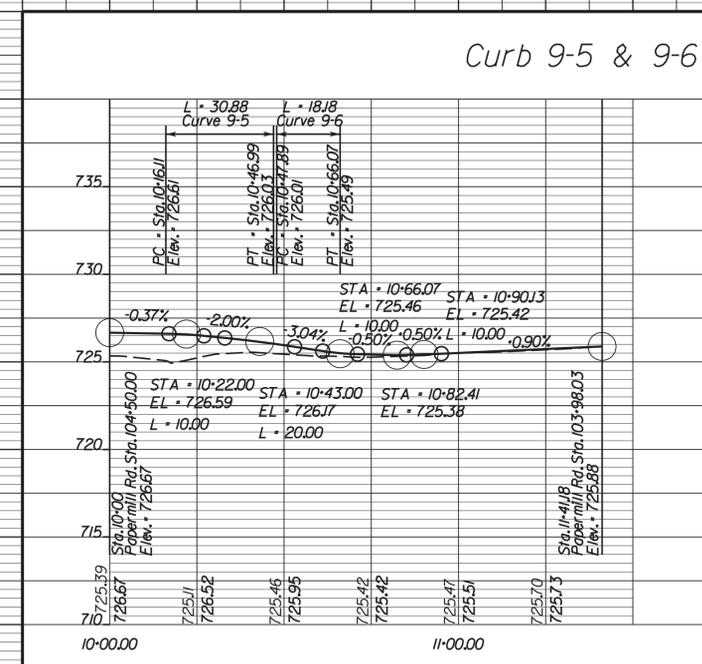
Curb 9-1 thru 9-3



Curb 9-4



Curb 9-5 & 9-6



2.5' Scale
25'

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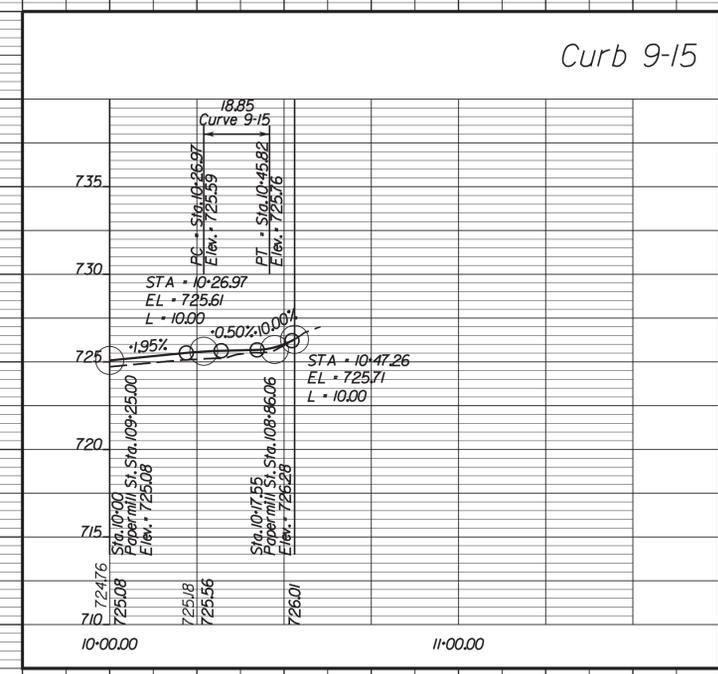
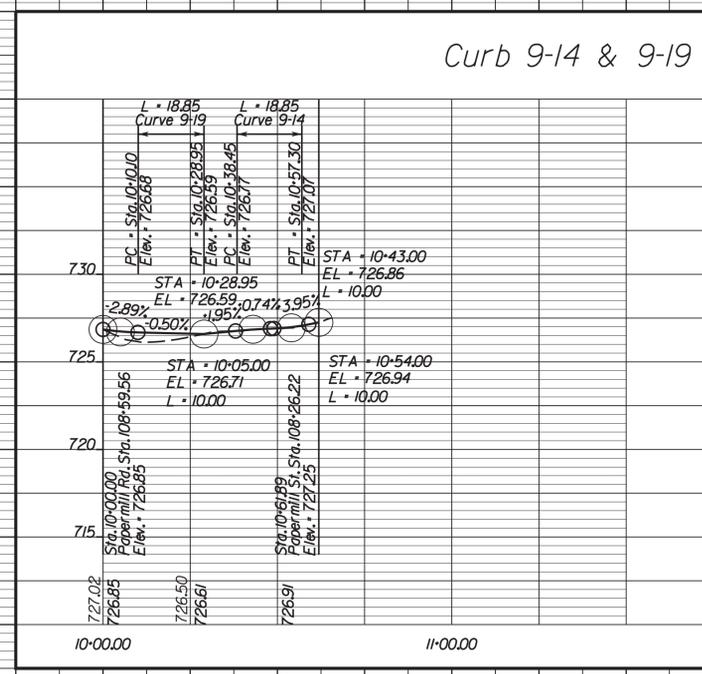
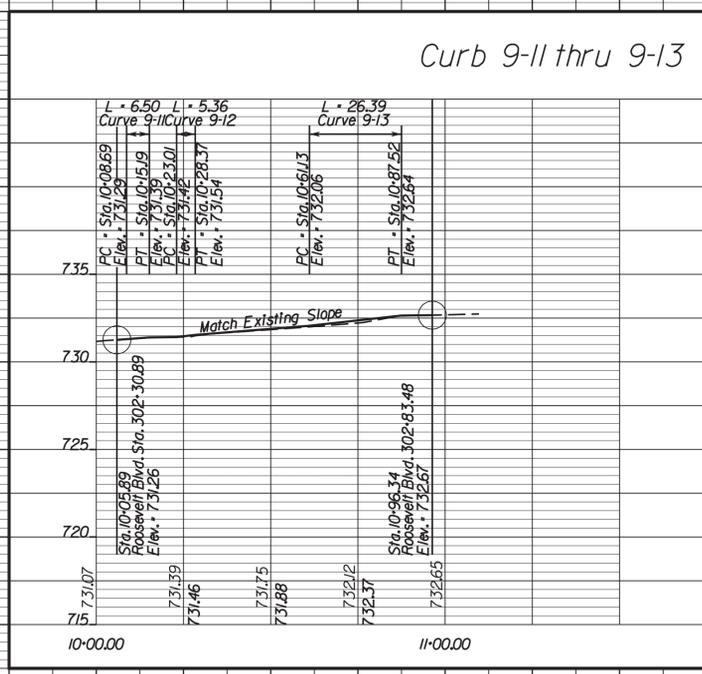
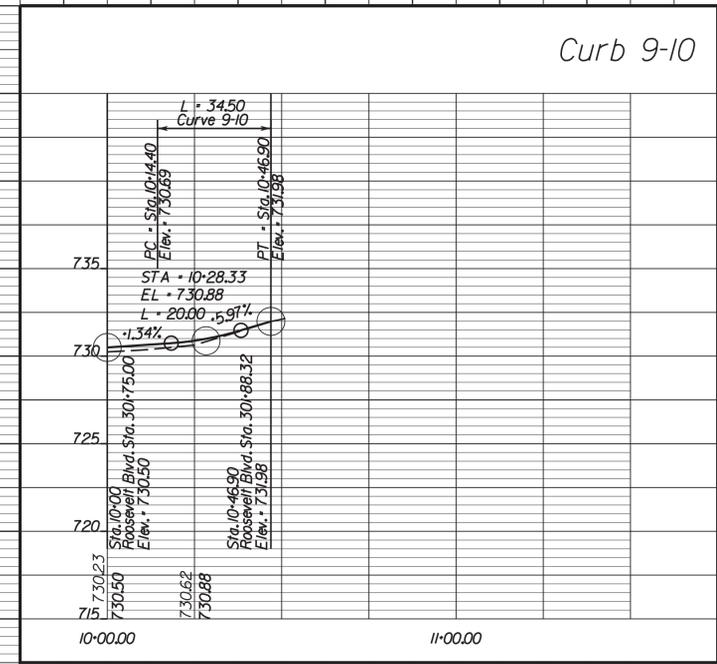
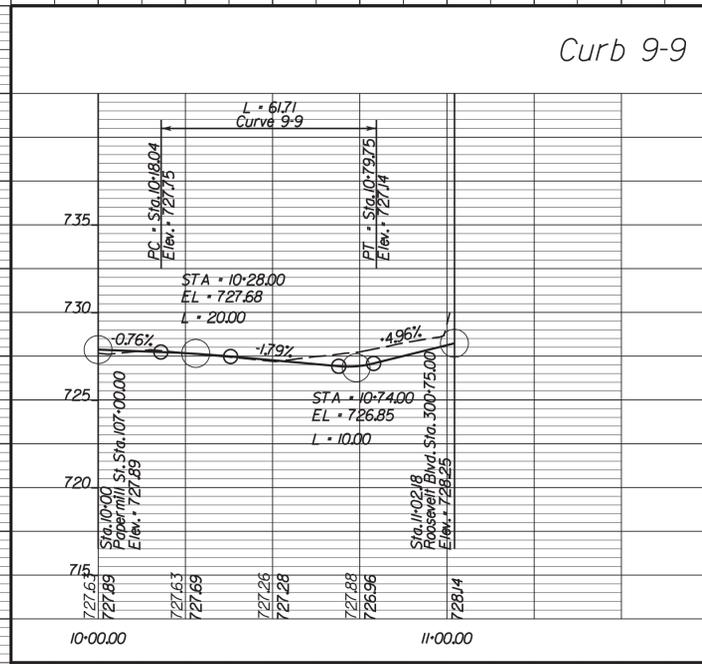
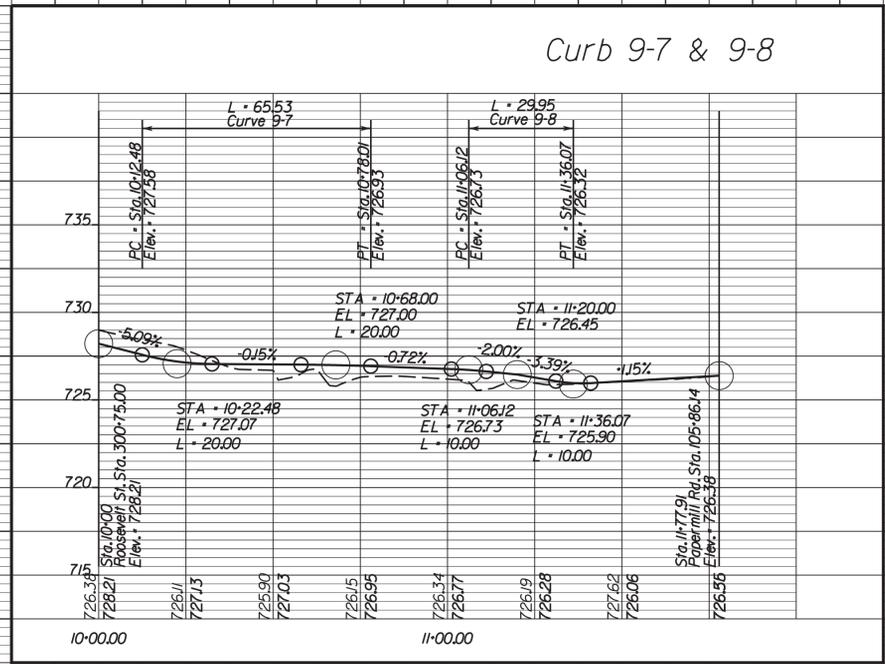
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 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

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2.5' Scale
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Engineering - Transportation - Right of Way Services

GRADING

- G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.
- G-2 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.
- G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: SIDEWALK, CURB & GUTTER, STORM PIPE, DRAINAGE STRUCTURES AND PAVED DITCH
- G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than one foot, or the limits of such excavation, such change is to be made at the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.
- G-6 The borrow material for this project shall be a minimum CBR 6 or as approved by the Materials Engineer.

Backfill shall be in accordance with VDOT Road & Bridge Specifications Section 303 and the Geotech Report recommendations prepared by Geo-Technology Associates, Inc., dated December 8, 2017.

DRAINAGE

- D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.
- D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.
- D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.
- D-6 Pipes shall conform to any of the allowable types shown on sheet number 16(B), within the applicable height of cover limitations. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standards PC-1.
- D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.
- D-9 A pipe joint length different from that stated on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. Extra payment for this adjustment will not be allowed. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.
- D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.
- D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard PP-1. Basis of Payment will be C.Y. of Flowable Backfill.
- D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.
- D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards have been listed as a separate pay item for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT Road and Bridge Standards.
- D-16 When CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.
- D-17 St'd. SL-1 Safety Slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

GENERAL NOTES

PAVEMENT

- P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS

- I-1 Two Reflectorized Railroad Grade Crossing Crossbuck Signs, complete with posts, SHALL BE FURNISHED AND ERECTED BY THE RAILROAD COMPANY.
- I-3 Service Roads are to be constructed, and private entrances connected there to prior to the permanent severing of private entrances by other phases of the proposed construction.
- I-7 Where Standard slope roundoffs would damage trees, bushes or other desirable vegetation, they shall be omitted when so ordered by the Engineer.
- I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- I-12 St'd. RM-2 right of way monuments shall be set by the Contractor.
- I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.
- I-17 For method of constructing Straight-Line Taper Lanes in curb and/or curb and gutter sections, see typical details on Sheet 2A.
- I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets 18 thru 18(15) and as directed by the Engineer.
- I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.
- I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, MicroStation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The MicroStation files will only match the scanned files if all required levels are turned on. A MicroStation Software license is required to be able to read these files.

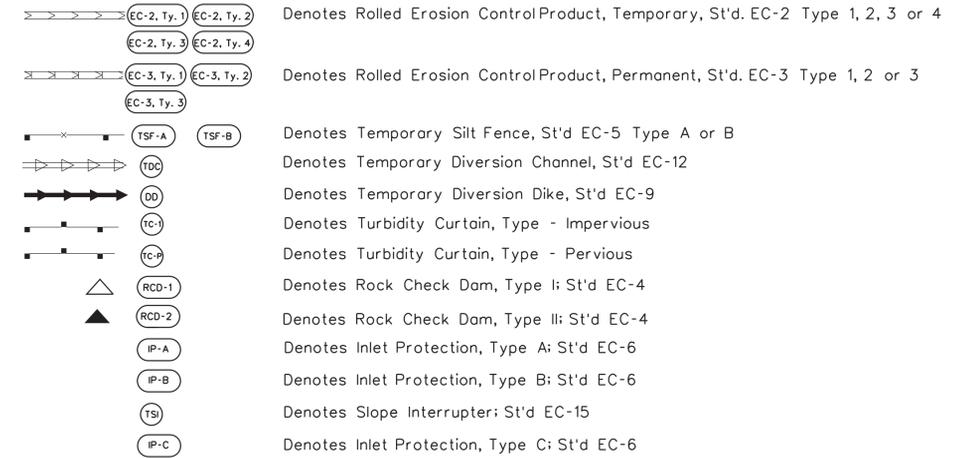
STORMWATER MANAGEMENT

- S-1 CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam is to be constructed and the area upstream of the dam, to an elevation equal to the crest of the dam (maximum ponded water elevation), shall be cleared and grubbed in accordance with Section 301 of the applicable VDOT Road and Bridge Specifications.
- S-3 SWM BASIN OUTLET PIPE - The pipe culvert under or through the dam for detention basins (no permanent pool) shall be reinforced concrete pipe with rubber gaskets in accordance with Section 232 and 212 of the applicable VDOT Road and Bridge Specifications. A concrete cradle shall extend the full length of the pipe culvert in accordance with the Standard Drawings. The connection between the pipe culvert and the SWM-1 Drainage Structure (or other control structure) shall be made watertight as approved by the Engineer and the cost shall be included in the price bid for pipe.
- S-4 The SWM-1 Drainage Structure (or other control structure) shall have 4" high numbers and 1" wide stripes pointed at 1' intervals as shown on the Standard Drawings or detail sheets. The numbers and stripes are to be installed at the time of the initial installation of the SWM-1 Drainage Structure (or other control structure). Paint and application shall be in accordance with Section 231 and 411 of the applicable VDOT Road and Bridge Specifications and the cost is to be included in the price bid for the applicable structure.

- S-5 All SWM Basins designated for use as temporary sediment basins shall be constructed during the initial phase of earth moving activities or as specified by the plans or directed by the Engineer. During project construction, the SWM-1 Drainage Structure (or other control structure) shall be modified in accordance with the Standard Drawings or plan details in order to provide a temporary sediment basin with both a "wet" storage volume (permanent pool) and a "dry" storage volume. Sediment accumulated in the basin shall be removed when the volume of the "wet" storage (permanent pool) has been reduced by 50%. Sediment shall be disposed of in accordance with Section 106.04 of the applicable VDOT Road and Bridge Specifications. When project construction is complete to a stage where no additional sediment from the project is expected to enter the basin, as determined by the Engineer, the basin shall be cleaned out and restored to the original design elevations, the area stabilized and all temporary modifications to the SWM-1 Drainage Structure (or other control structure) removed.

EROSION AND SEDIMENT CONTROL (ESC)

- E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.
- E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.
- E-3 The following symbols are used to depict Erosion Control items in the plan assembly:



CONSTRUCTION GENERAL NOTES

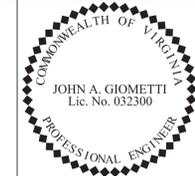
- All work and materials shall conform to the current standards of the City of Winchester, Virginia, the Virginia Department of Transportation (VDOT), the Virginia Uniform Statewide Building Code, and the rules and regulations of the Americans with Disabilities Act, where applicable.
- Erosion and sediment control installation and maintenance shall conform to the standards and specification of the Commonwealth of Virginia and the City of Winchester, Virginia, where applicable.
- It shall be the responsibility of the contractor to notify "Miss Utility" at 811 at least two (2) working days prior to commencement of any land disturbing activity.
- All existing utilities have been shown based upon the best available information. However, there may be existing utilities which are not shown and should be located. Therefore, it shall be the responsibility of the contractor to verify the location of all existing utilities prior to construction. Verification shall be done by way of a field survey or excavated test pits. Any discrepancies between these plans and the actual field conditions shall be reported immediately to the engineer and the City of Winchester, Virginia.
- It shall be the responsibility of the contractor to obtain all permits and pay all applicable fees that may be necessary for construction prior to commencement of work. An approved set of construction documents shall be present on the site at all times.
- Topographic information was derived based upon NAVD 1988 Datum by a field survey performed by the Survey department of Rinker Design Associates, P.C. and an aerial survey performed by Quantum Spatial in August 2014 for the Hope Drive Extension Realignment and Safety Improvement project. A one foot (1') contour interval was established for this project. Contractor to confirm the vertical elevation benchmark information with the surveyor prior to commencement of the stake-out of this project.
- Geotechnical Borings were performed by Geo-Technology Associates, Inc. in April 2017.
- All property corner markers disturbed or otherwise obscured by construction are to be replaced and verified by a certified land surveyor at the Contractor's expense.
- Pavement construction and material items called for on the plans refer to VDOT standards and specifications.
- The Contractor shall obtain permission from adjoining property owners prior to conducting any off-site construction activities.
- Provide "as-built" drawings for all improvements as required by the City of Winchester. Coordinate the scope and format of the as-builts with the City of Winchester Utility Dept. prior to beginning construction.
- Construction of this project may not begin until plans have been approved and a pre-construction meeting has been held.

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.		RS14-138-R10	2

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

PROJECT MANAGER Perry, Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney, Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew, Basilew, Mid-Atlantic Utility Locating (703) 378-0100, August 2014

TYPICAL SECTIONS

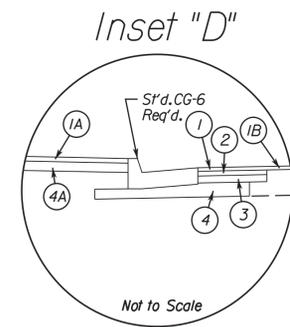
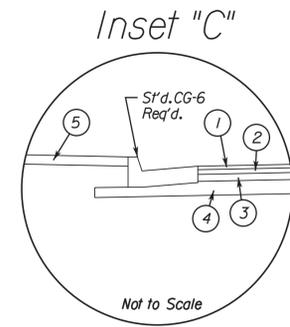
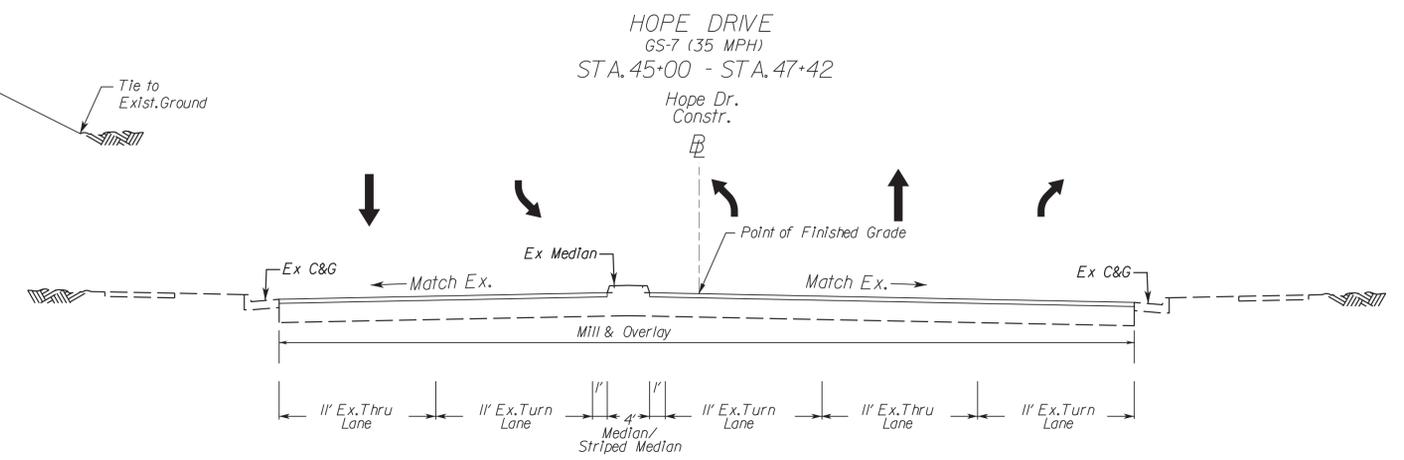
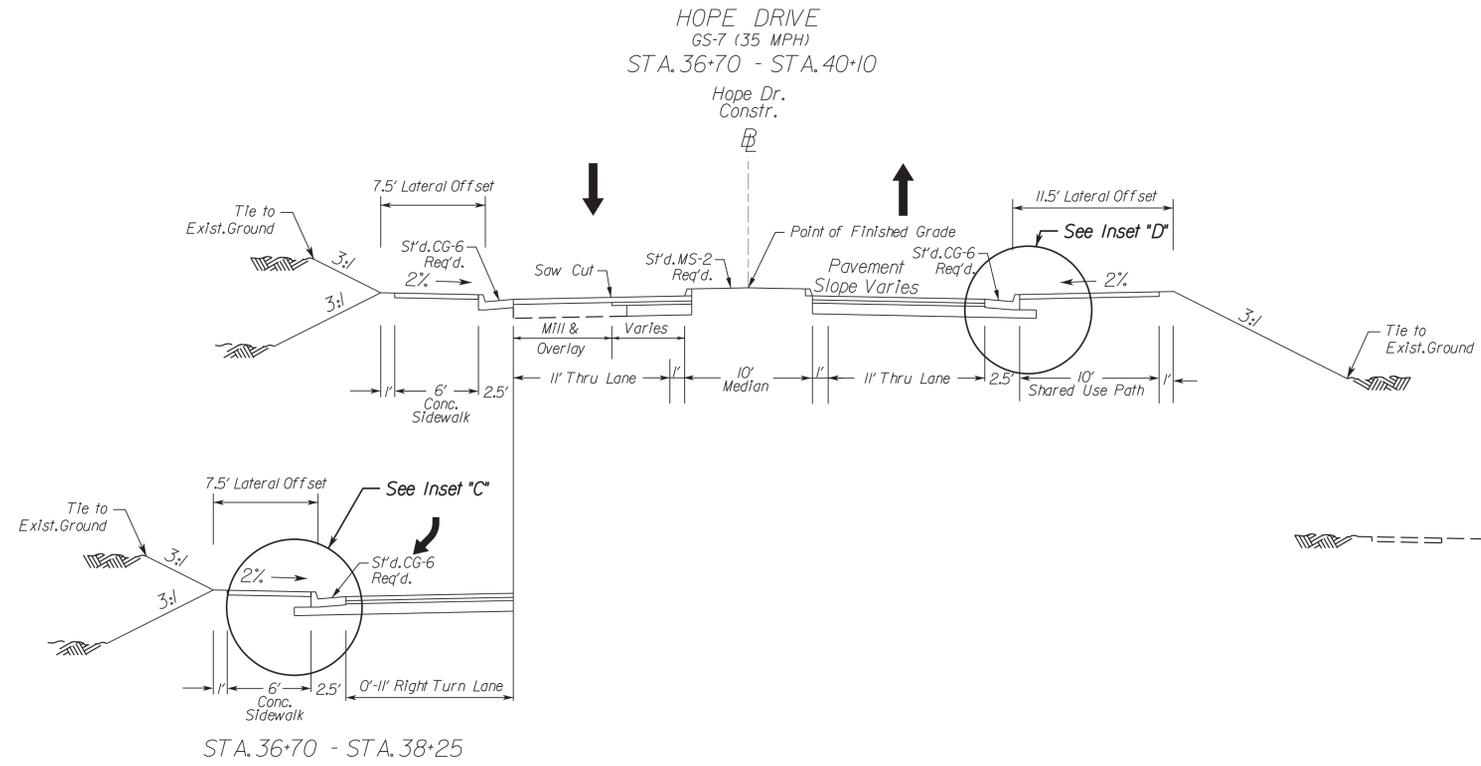


John A. Giometti
 2019.02.13
 15:05:58 - 05'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

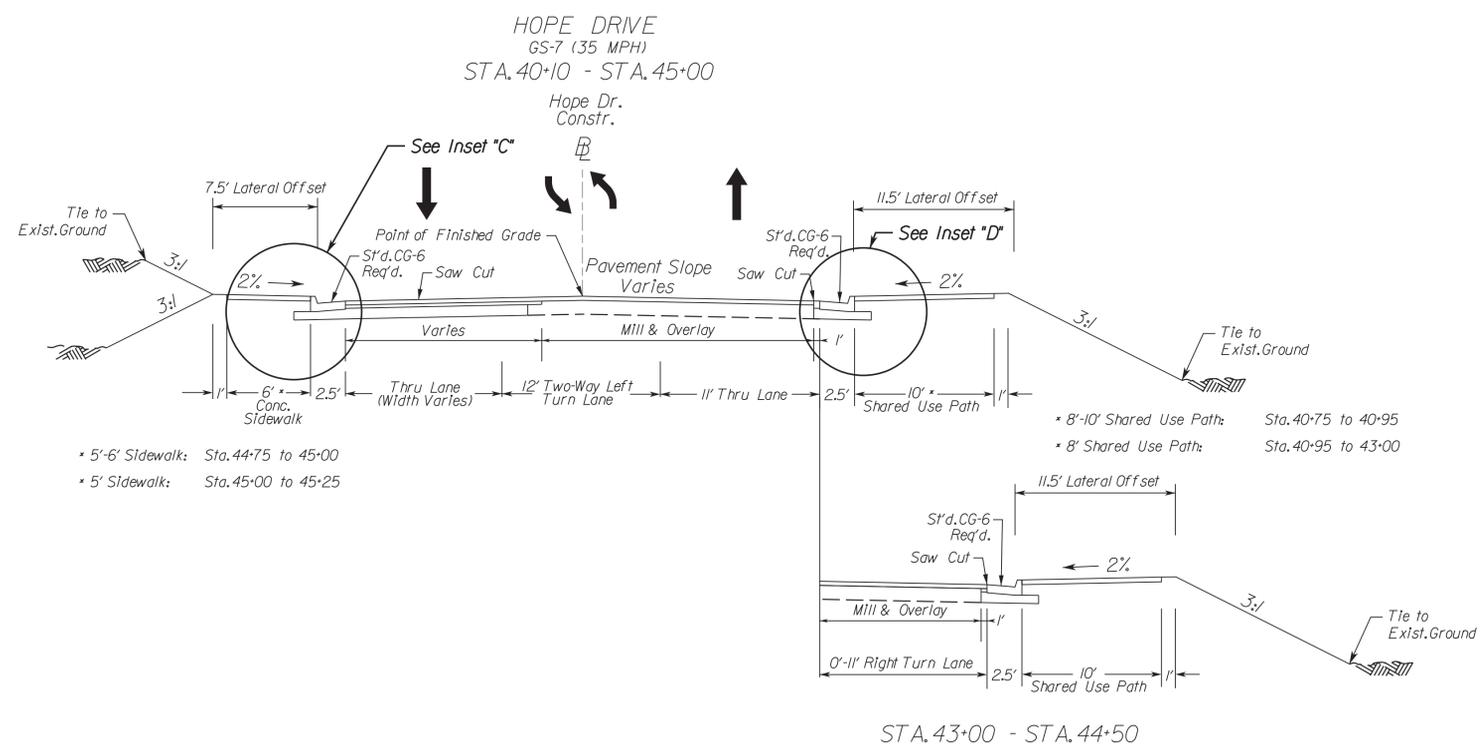
REVISED	STATE		PROJECT		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	-	RS14-138-R10	R-201,C-501	2A(1)

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

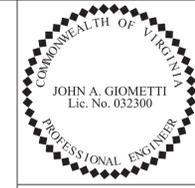
Office Locations
 Rinker Design Associates, P.C.
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 703-334-0060
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 703-334-0060
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 703-334-0060



- INSET DESIGN LEGEND**
- ① Surface Course - (1.5") Asph. Conc., Type SM-9.5A @ 165 lbs/sq.yd.
 - ①A Surface Course - (2.0") Asph. Conc., Type SM-9.5A @ 220 lbs/sq.yd.
 - ①B Milled Surface Course - Milled to depth of (1.5" min.) and replaced w/ (Depth Varies - per 1 Inch - 110 lb/sq.yd) Asph. Conc., Type SM-9.5A to final grade
 - ② Intermediate Course - (2.0") Asph. Conc., Type IM-19.0A @ 220 lbs/sqyd.
 - ③ Base Course - (4.0") Asph. Conc., Type BM-25.0A @ 448 lbs/sqyd.
 - ④ Sub-Base Course - (6.0") Aggr. Base Material, Type I, Size No. 21-B
 - ④A Sub-Base Course - (4.0") Aggr. Base Material, Type I, Size No. 21-B
 - ⑤ (4.0") Hydraulic Concrete Cement



PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Baniem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

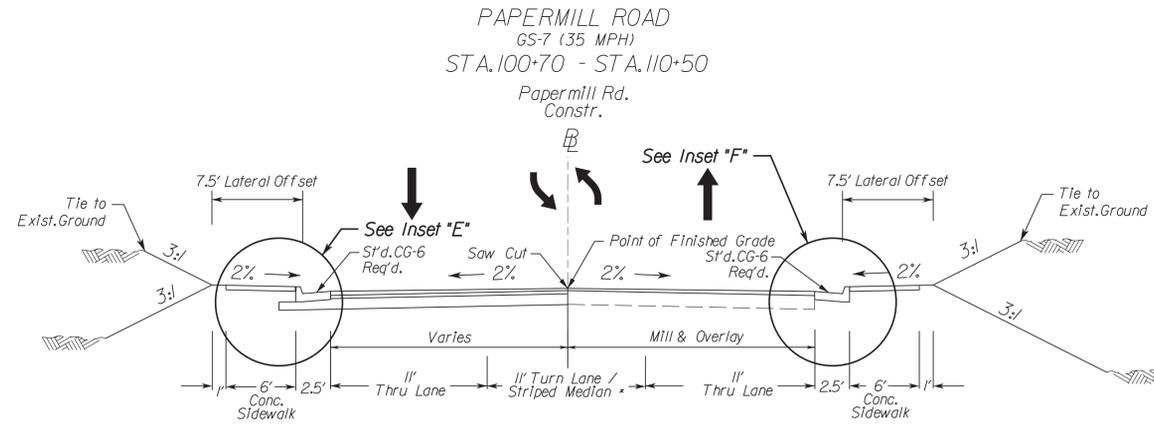


John A. Giometti
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Rinker Design Assoc., P.C.
Fredericksburg, Virginia
RESPONSIBLE ENGINEER

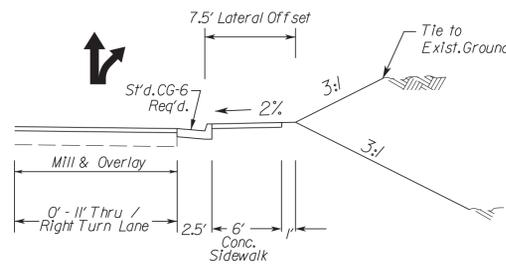
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	2A(2)

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

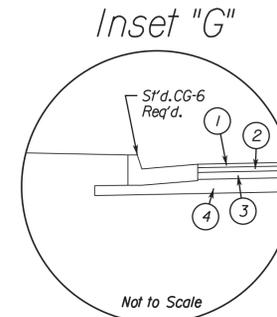
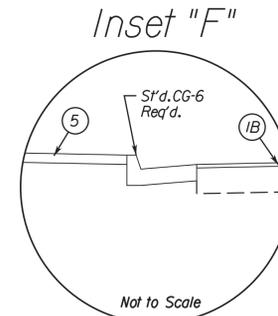
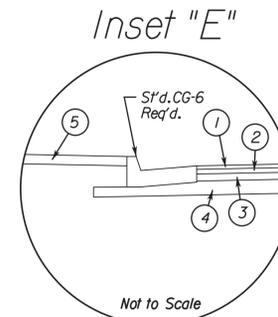
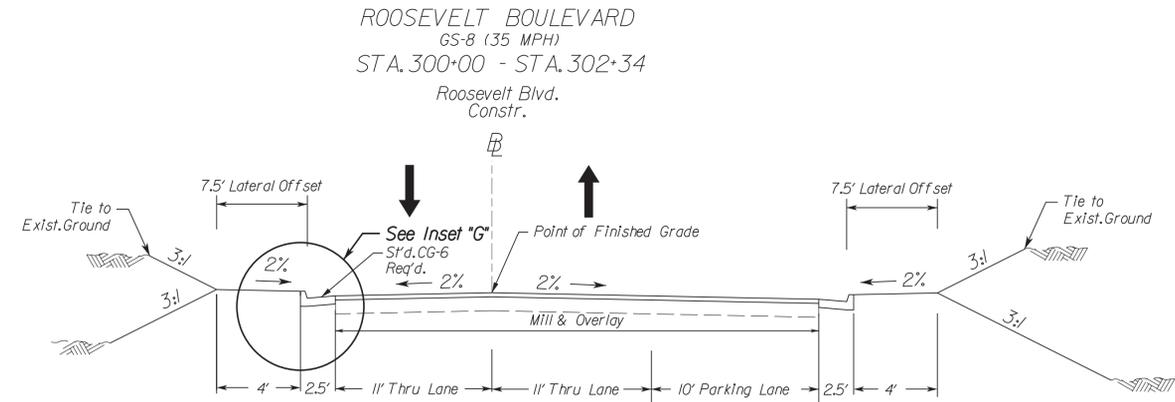
TYPICAL SECTIONS



- * Turn Lane: Sta. 100+70 to 102+95
Sta. 103+95 to 106+25
Sta. 108+35 to 110+50
- * Striped Median: Sta. 102+95 to 103+95
Sta. 106+25 to 108+35



STA. 109+75 - STA. 110+55



INSET DESIGN LEGEND

- Surface Course - (1.5") Asph. Conc., Type SM-9.5A @ 165 lbs/sq.yd.
- Milled Surface Course - Milled to depth of (1.5" min.) and replaced w/ (Depth Varies - per 1 Inch - 110 lb/sq.yd) Asph. Conc., Type SM-9.5A to final grade
- Intermediate Course - (2.0") Asph. Conc., Type IM-19.0A @ 220 lbs/sq.yd.
- Base Course - (4.0") Asph. Conc., Type BM-25.0A @ 448 lbs/sq.yd.
- Sub-Base Course - (6.0") Aggr. Base Material, Type I, Size No. 21-B
- (4.0") Hydraulic Concrete Cement

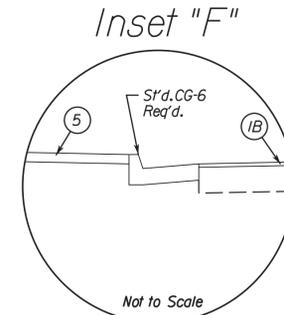
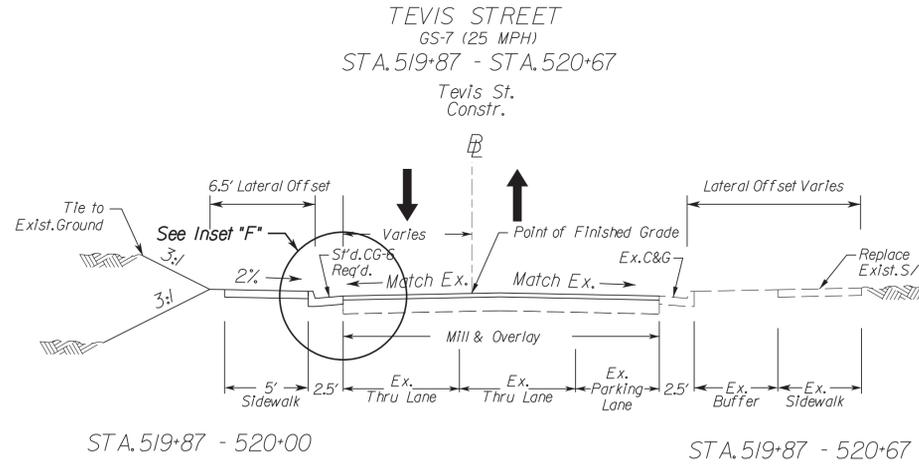
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PROJECT
RS14-138-R10

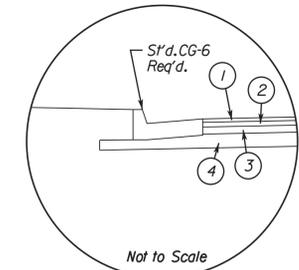
SHEET NO.
2A(2)

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY DATE Matthew, Basile, M.D. - Atlantic Utility Locating (703) 378-0100, August 2014

TYPICAL SECTIONS



Inset "H" (Frontage Road and Tevis Street Cul-de-Sac)



INSET DESIGN LEGEND

- (1B) Milled Surface Course - Milled to depth of (1.5" min.) and replaced w/ (Depth Varies - per 1 Inch - 110 lb/sq.yd) Asphalt Conc., Type SM-9.5A to final grade
- (5) (4.0') Hydraulic Concrete Cement

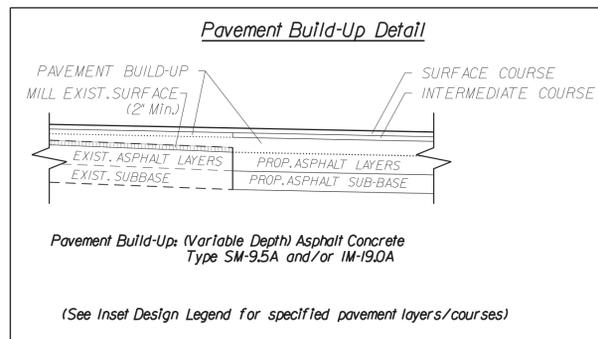
INSET DESIGN LEGEND

- (1) Surface Course - (1.5") Asphalt Conc., Type SM-9.5A @ 165 lbs/sq.yd.
- (2) Intermediate Course - (2.0") Asphalt Conc., Type IM-19.0A @ 220 lbs/sq.yd.
- (3) Base Course - (2.5") Asphalt Conc., Type BM-25.0A @ 448 lbs/sq.yd.
- (4) Sub-Base Course - (6.0") Aggr. Base Material, Type I, Size No. 21-B

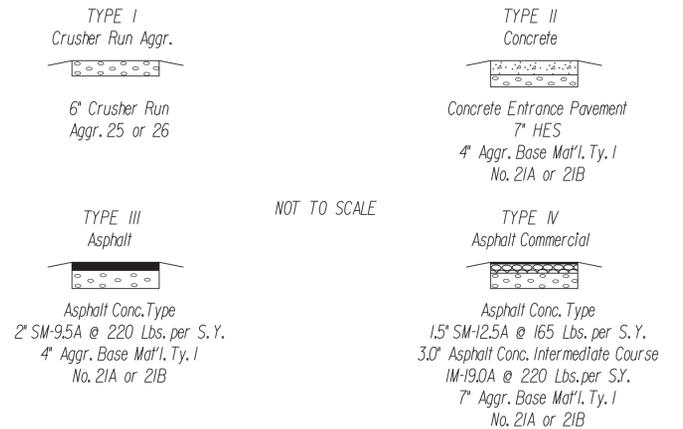
UNSUITABLE MATERIALS SUMMARY

CONTRACTOR SHOULD EXPECT UNSUITABLE MATERIALS AT SUBGRADE AT THE FOLLOWING LOCATIONS:

PROPOSED ROAD	STATION NUMBER	RECOMMENDED TREATMENT	ALTERNATE TREATMENT	REASON
Hope Dr.	Sta. 10+00 to 11+25	2 ft. undercut*	-----	Highly-Plastic Clay, Wet
Hope Dr.	Sta. 11+25 to 13+00	2 ft. undercut***	In-Place Stabilization	Existing Fill
Hope Dr.	Sta. 13+00 to 19+00	2 ft. undercut*	-----	Highly-Plastic Clay
Hope Dr.	Sta. 19+00 to 22+50	2 ft. undercut***	In-Place Stabilization	Existing Fill
Hope Dr.	Sta. 23+25 to 24+50	2 ft. undercut***	In-Place Stabilization	Existing Fill
Hope Dr.	Sta. 25+00 to 28+00	2 ft. undercut*	-----	Highly-Plastic Clay
Hope Dr.	Sta. 28+00 to 29+75	2 ft. undercut*	-----	Existing Fill with Construction Debris
Hope Dr.	Sta. 29+75 to 31+25	2 ft. undercut*	-----	Highly-Plastic Clay
Hope Dr.	Sta. 31+25 to 32+50	2 ft. undercut	In-Place Stabilization**	Wet
Hope Dr.	Sta. 39+00 to 40+25	2 ft. undercut***	In-Place Stabilization	Existing Fill
Hope Dr.	Sta. 40+25 to 41+25	2 ft. undercut	In-Place Stabilization**	Existing Fill, Wet
Hope Dr.	Sta. 41+25 to 43+75	2 ft. undercut*	-----	Highly-Plastic Clay
Hope Dr.	Sta. 43+75 to 44+50	2 ft. undercut***	In-Place Stabilization	Existing Fill
Hope Dr.	Sta. 44+50 to 45+75	2 ft. undercut	In-Place Stabilization**	Existing, Fill Wet
Hope Dr.	Sta. 45+75 to 46+50	2 ft. undercut	-----	Highly-Plastic Clay, Existing Fill
Hope Dr.	Sta. 46+50 to 47+42	2 ft. undercut***	In-Place Stabilization	Existing Fill
Tevis St. Cul-de-Sac	Sta. 11+72 to 12+60	2 ft. undercut	In-Place Stabilization**	Wet
Papermill Rd.	Sta. 100+00 to 102+00	-----	In-Place Stabilization**	Wet/Soft
Papermill Rd.	Sta. 102+00 to 103+00	2 ft. undercut	In-Place Stabilization**	Wet
Papermill Rd.	Sta. 103+00 to 104+00	2 ft. undercut	-----	Highly-Plastic Clay, Existing Fill
Papermill Rd.	Sta. 104+00 to 105+25	2 ft. undercut	In-Place Stabilization**	Existing Fill, Wet
Papermill Rd.	Sta. 105+25 to 106+50	2 ft. undercut***	In-Place Stabilization	Existing Fill
Papermill Rd.	Sta. 106+50 to 111+20	2 ft. undercut*	-----	Highly-Plastic Clay
Roosevelt Blvd.	Sta. 300+00 to 303+05	2 ft. undercut*	-----	Highly-Plastic Clay
Frontage Rd.	Sta. 11+25 to 13+00	2 ft. undercut*	-----	Highly-Plastic Clay, Wet
Frontage Rd. Cul-de-Sac	Sta. 10+00 to 13+00	2 ft. undercut	In-Place Stabilization**	Existing Fill, Wet



PRIVATE AND COMMERCIAL ENTRANCES



The type of entrance (I, II, III, IV) to be constructed will be determined by the existing condition at the time of construction.

* Placed on a woven geotextile subgrade stabilization fabric, if required.
** Soil Cement stabilized in accordance with Road and Bridge Specifications Section 307. In addition, wet subgrade may be encountered in fill area and may require additional undercut or stabilization with geotextile.
*** Existing fill, with the exception of highly-plastic and wet materials may be left in place provided that proof rolling is performed to identify areas of unstable soils requiring undercut or in-place stabilization.

Not To Scale

PROJECT
RS14-138-R10

SHEET NO.
2A(3)

Office Locations: Richmond, VA; Norfolk, VA; Chesapeake, VA; Virginia Beach, VA; Newport News, VA; Williamsburg, VA; Alexandria, VA; Fairfax, VA; Arlington, VA; Falls Church, VA; Herndon, VA; Reston, VA; Manassas, VA; Manassas Park, VA; Leesville, VA; Suffolk, VA; Portsmouth, VA; Newport News, VA; Norfolk, VA; Chesapeake, VA; Virginia Beach, VA; Richmond, VA.

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

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Basilew, M.D.* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

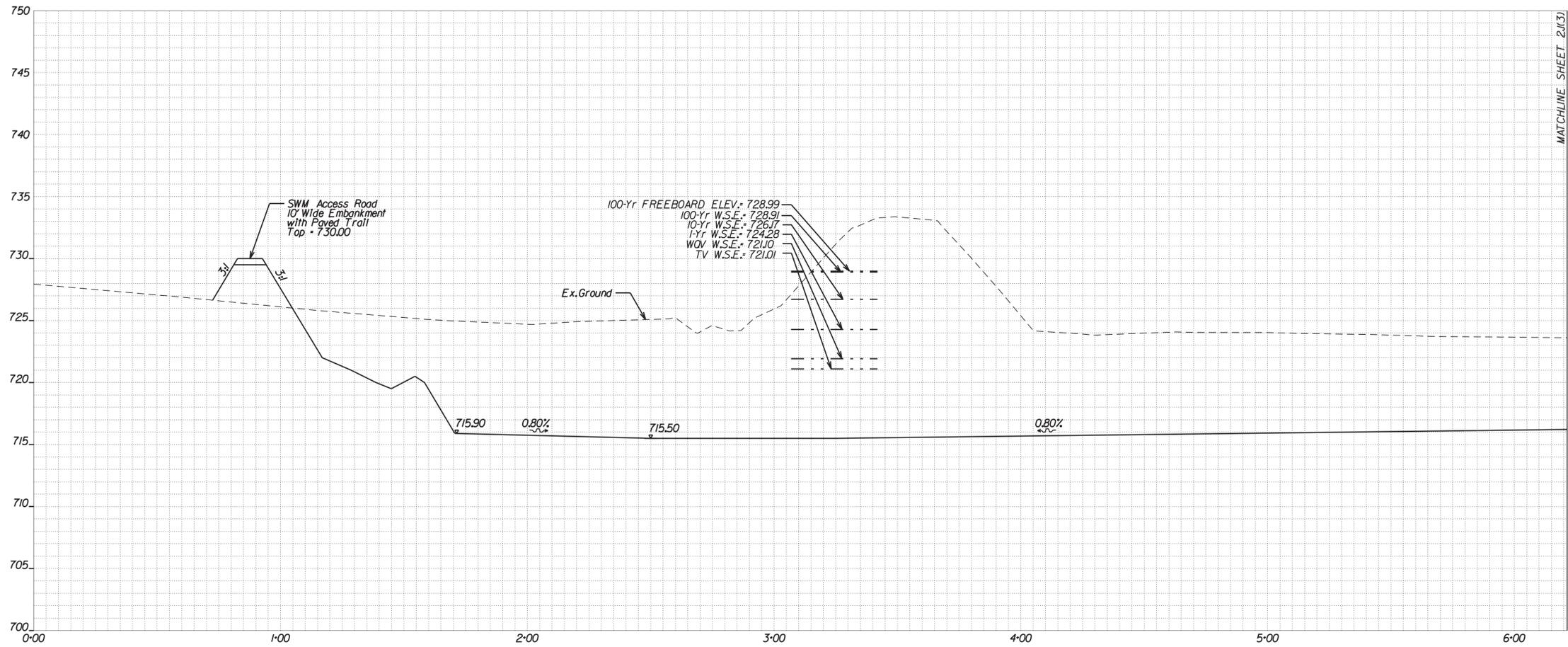
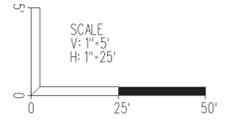
SWM Facility #1 Cross Section View A-A'



Brian P Komar
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Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	2(J1)

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



PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE Matthew, Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

SWM Facility #1 Plan View A-A'

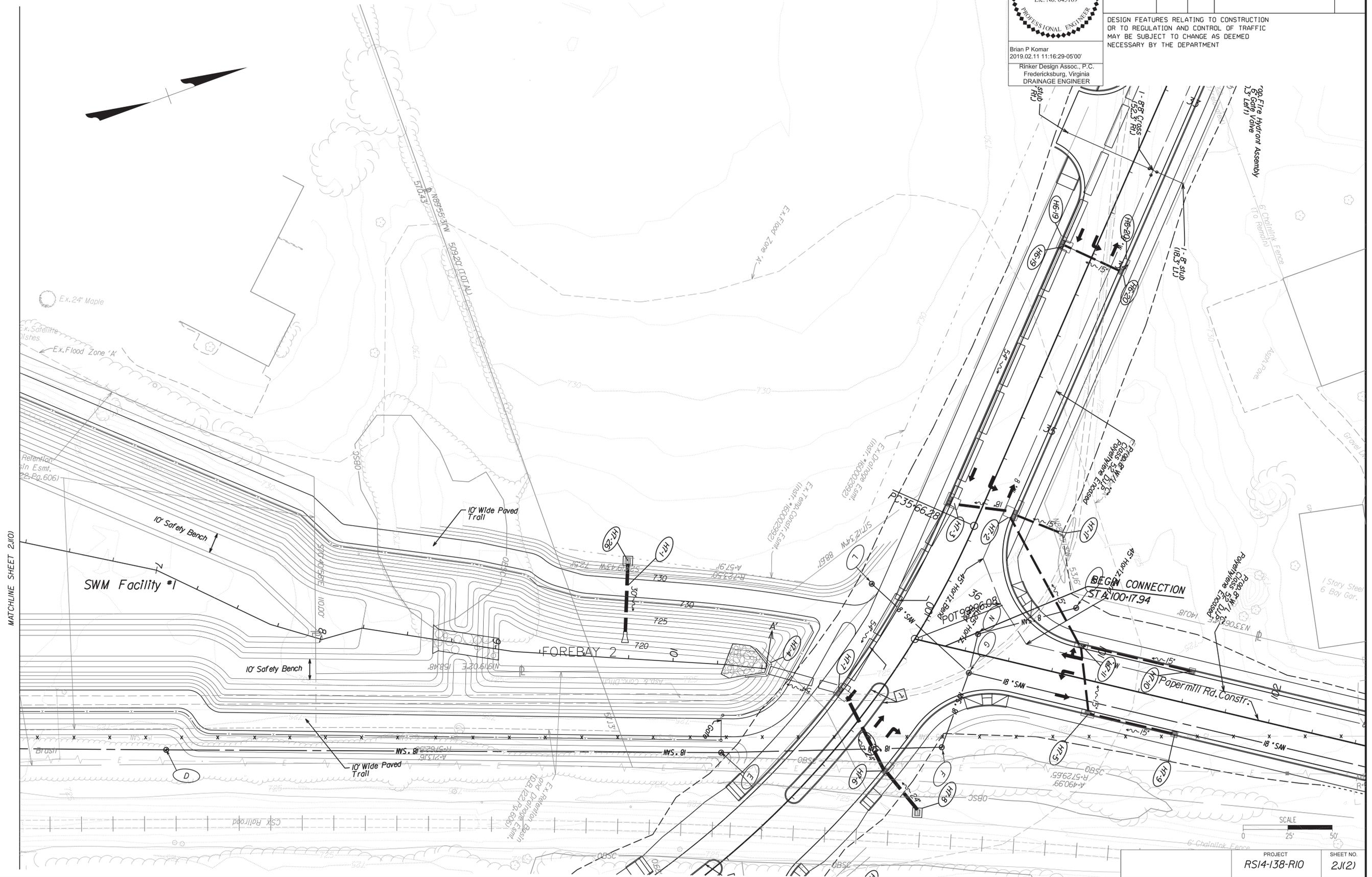
COMMONWEALTH OF VIRGINIA
BRIAN P. KOMAR
Lic. No. 045169
PROFESSIONAL ENGINEER

Brian P. Komar
2019.02.11 11:16:29-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

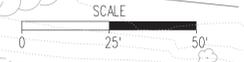
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	21(2)

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

Office Locations
Rinker Design Associates, P.C.
10000 Woodloch Forest Dr., Suite 100
Fredericksburg, VA 22409
703.334.0060
www.rinker.com



MATCHLINE SHEET 21(0)



PROJECT RS14-138-R10	SHEET NO. 21(2)
-------------------------	--------------------

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE Matthew, Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

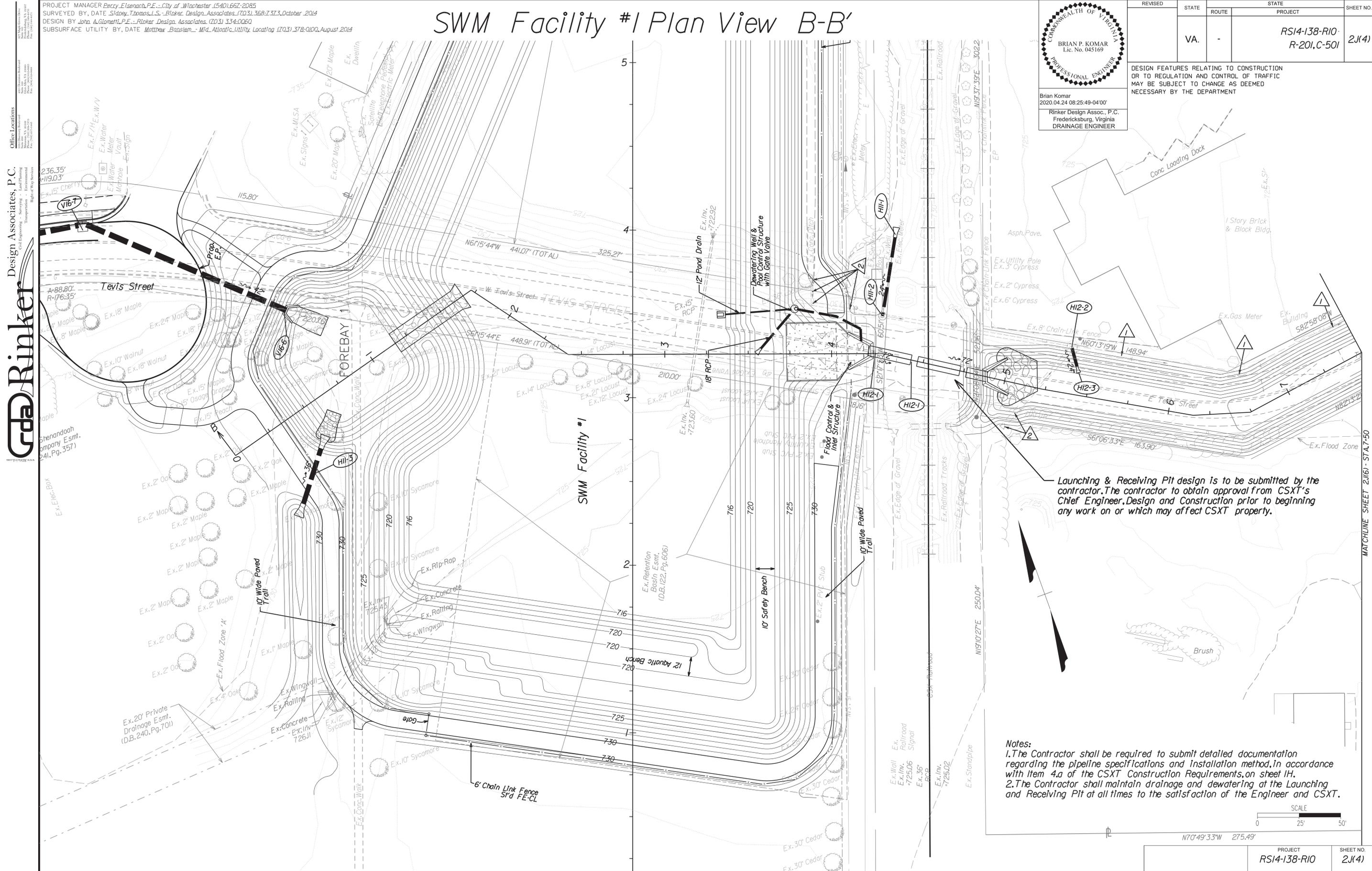
SWM Facility #1 Plan View B-B'

COMMONWEALTH OF VIRGINIA
BRIAN P. KOMAR
Lic. No. 045169
PROFESSIONAL ENGINEER

Brian Komar
2020.04.24 08:25:49-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

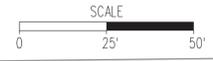
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	2(K4)

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



Launching & Receiving Pit design is to be submitted by the contractor. The contractor to obtain approval from CSXT's Chief Engineer. Design and Construction prior to beginning any work on or which may affect CSXT property.

- Notes:
1. The Contractor shall be required to submit detailed documentation regarding the pipeline specifications and installation method, in accordance with Item 4.a of the CSXT Construction Requirements, on sheet IH.
 2. The Contractor shall maintain drainage and dewatering at the Launching and Receiving Pit at all times to the satisfaction of the Engineer and CSXT.



N70°49'33"W 275.49'

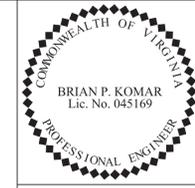
PROJECT	SHEET NO.
RS14-138-R10	2(K4)

Rinker
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 10000 Old Dominion Blvd., Suite 200
 Fairfax, VA 22031
 Phone: (703) 334-0060
 Fax: (703) 334-0061
 www.rinker.com

MATCHLINE SHEET 2(J6) - STA. 7+50

PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

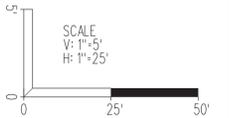
SWM Facility #1 Cross Section View B-B'



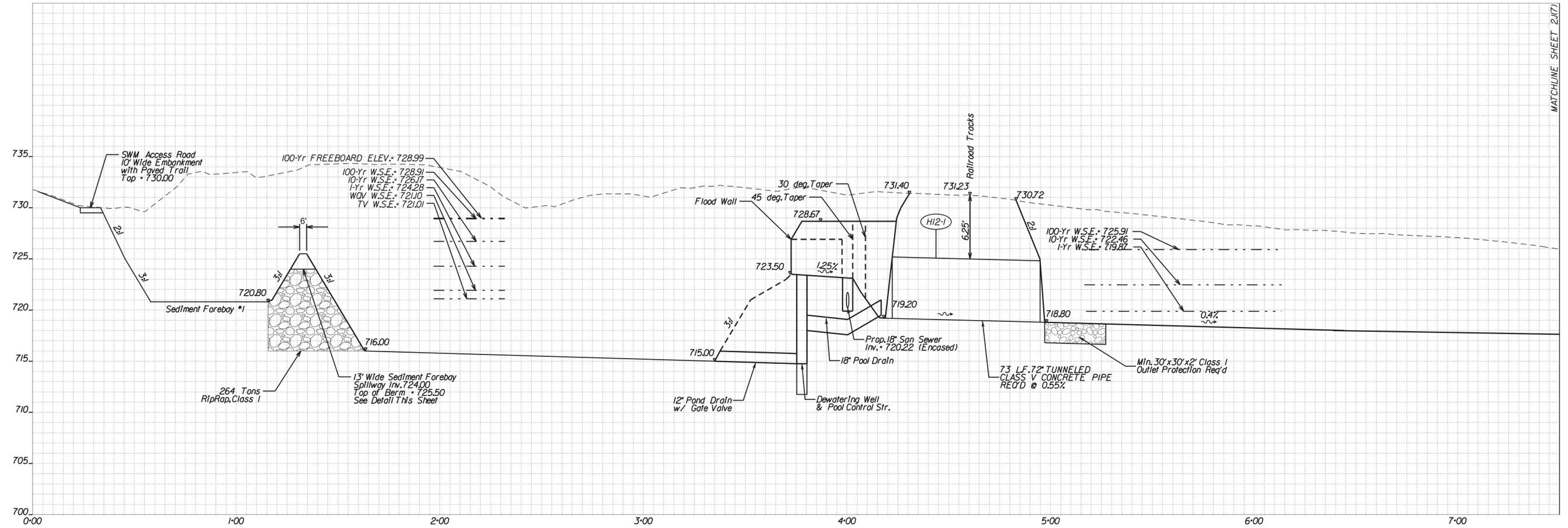
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Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	21(5)

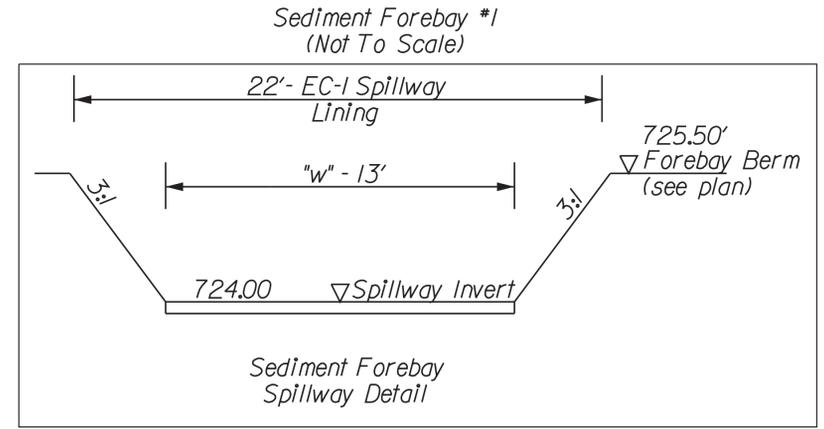
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



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



Notes:
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 3. The Contractor shall maintain drainage and dewatering at the Launching and Receiving Pit at all times to the satisfaction of the Engineer and CSXT.



PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Braslem, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

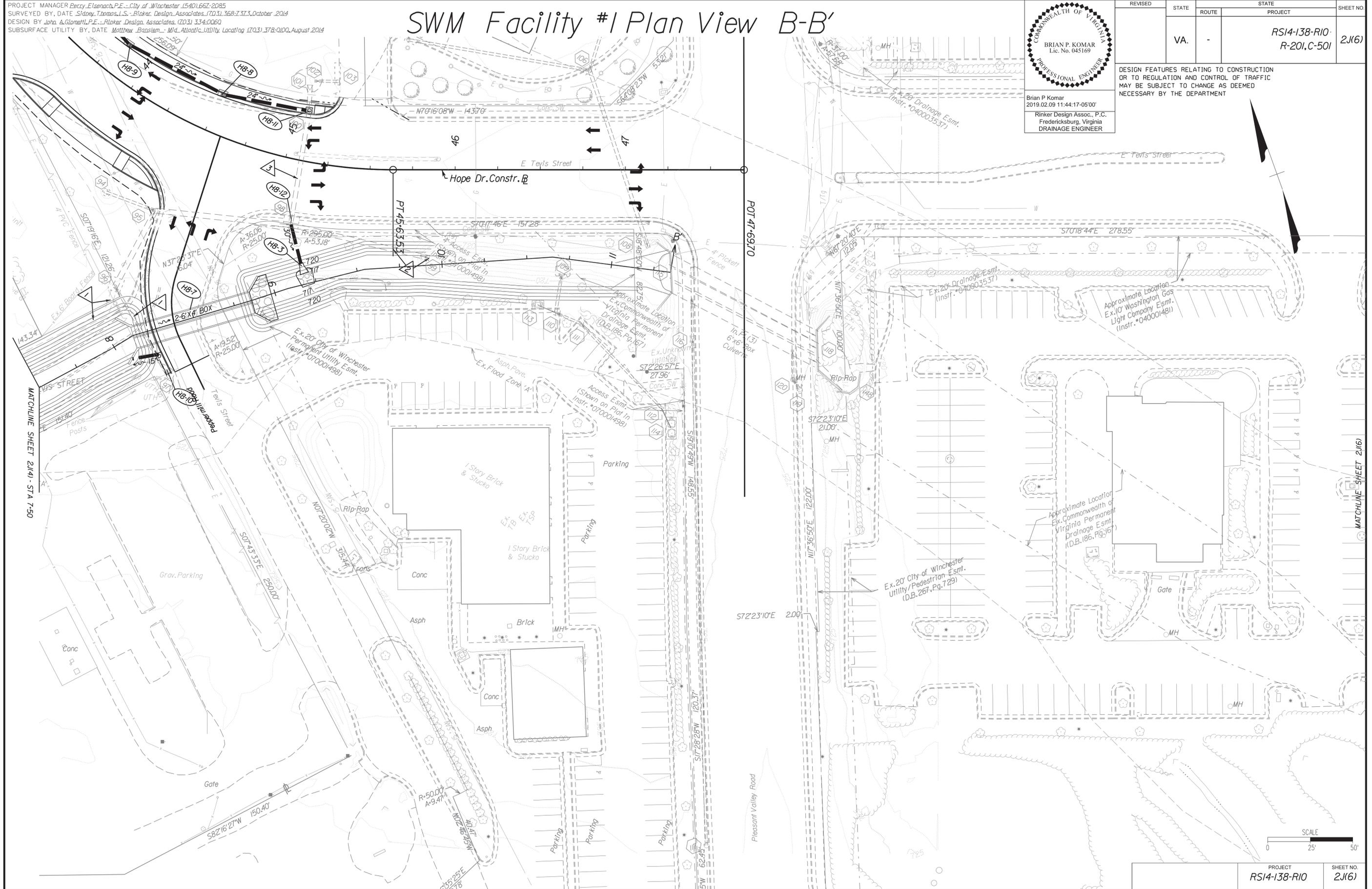
SWM Facility #1 Plan View B-B'

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

Brian P Komar
 2019.02.09 11:44:17-0500'
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	2(J6)

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



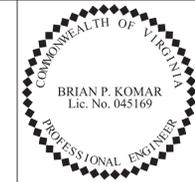
Rinker Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 10000 Old Dominion Blvd., Suite 200, Fredericksburg, VA 22409
 Phone: (703) 334-0060 Fax: (703) 334-0061
 www.rinker.com



PROJECT	SHEET NO.
RS14-138-R10	2(J6)

PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

SWM Facility #1 Cross Section View B-B'



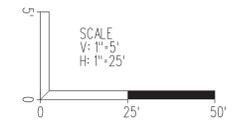
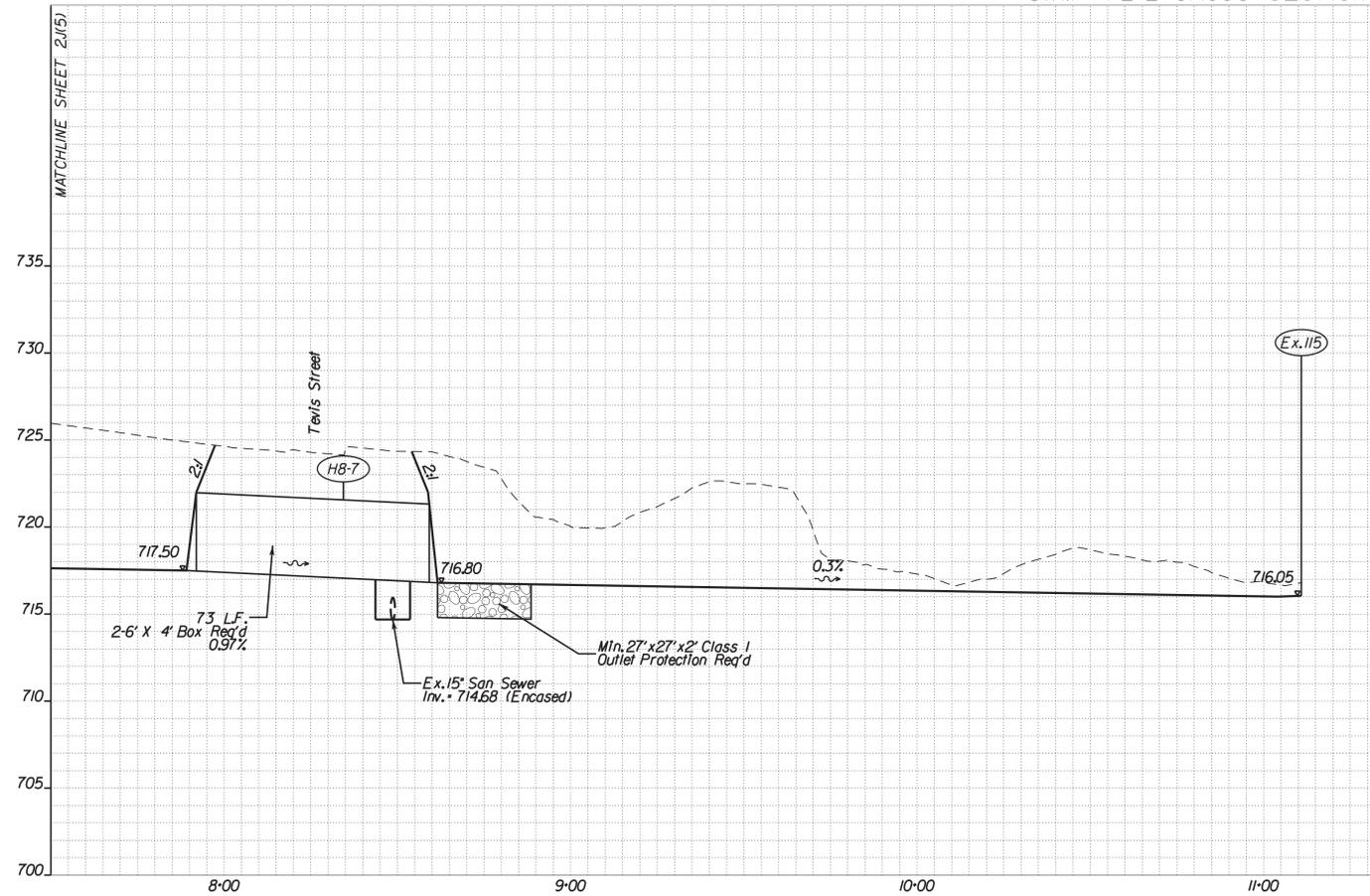
Brian P Komar
2019.02.09 11:43:59-05'00'

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	2(K7)

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

SWM #1 B-B' CROSS SECTION



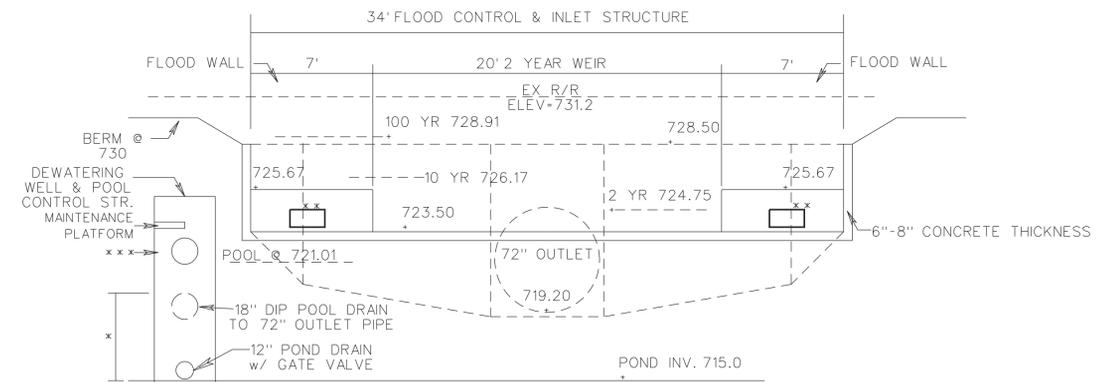
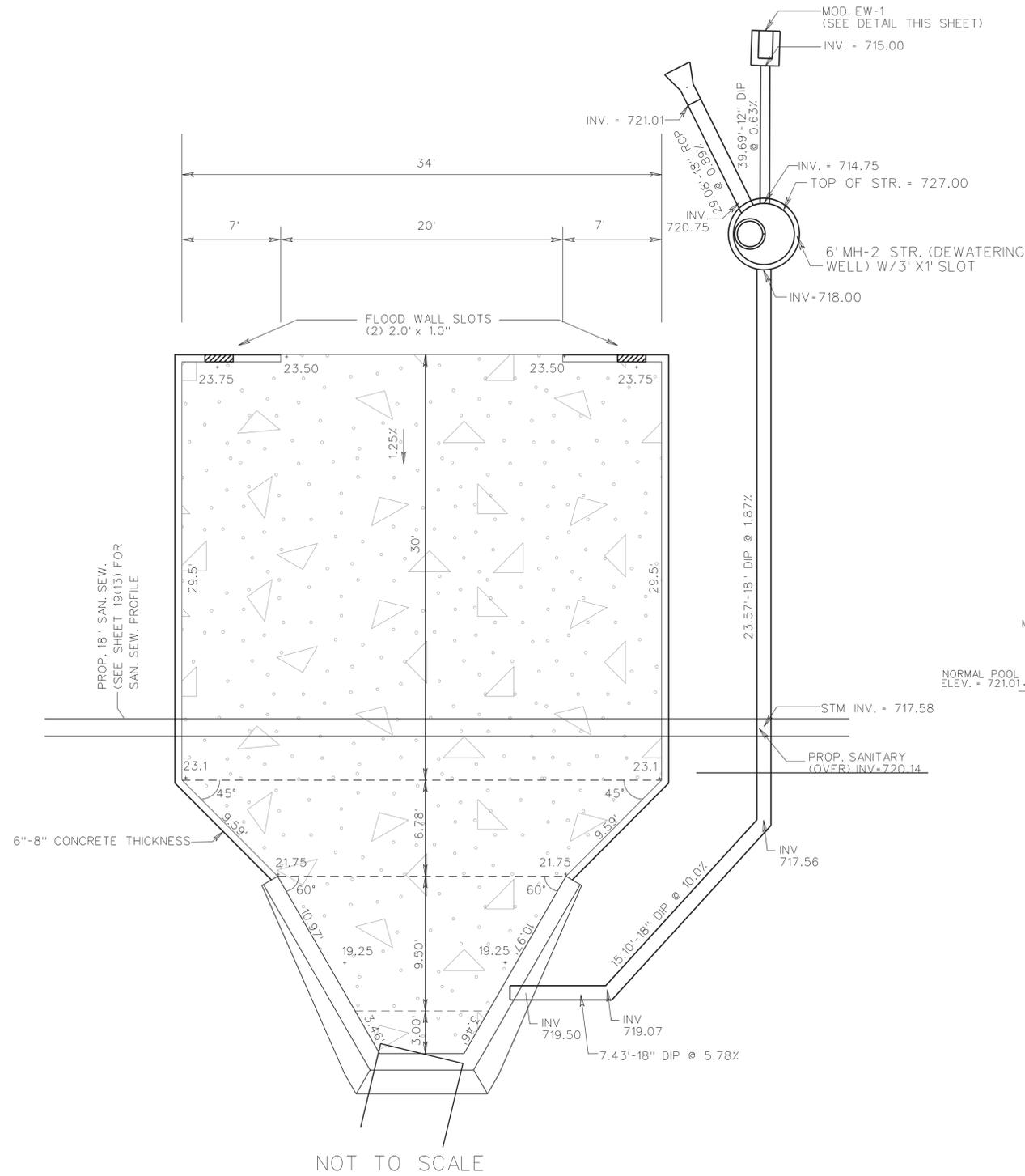
PROJECT MANAGER *Ecory, Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney, Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew, Braslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

Brian P. Komar
2019.08.20 17:12:41-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	2J(8)

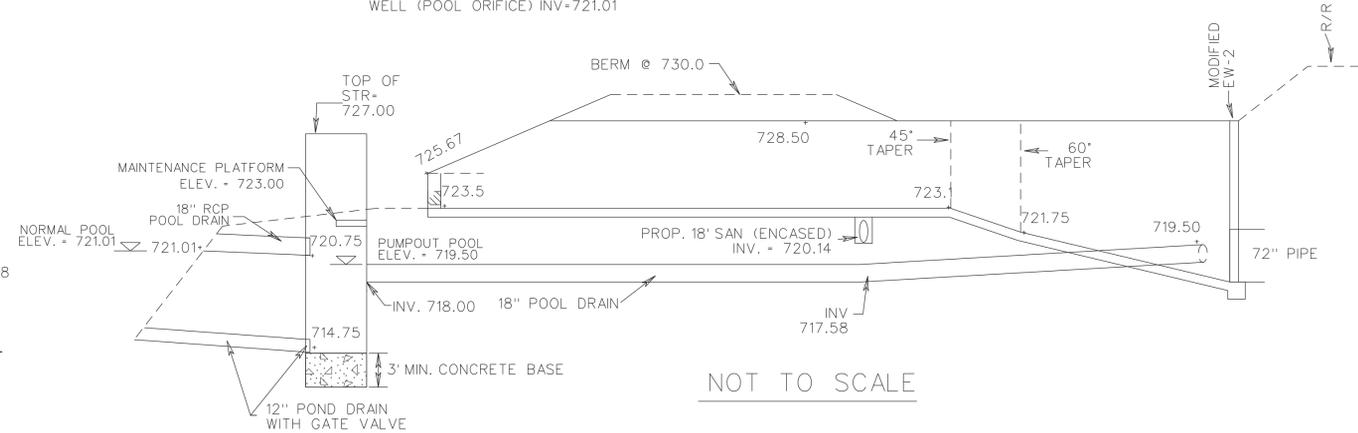
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SWM Facility #1 Stormwater Management Details

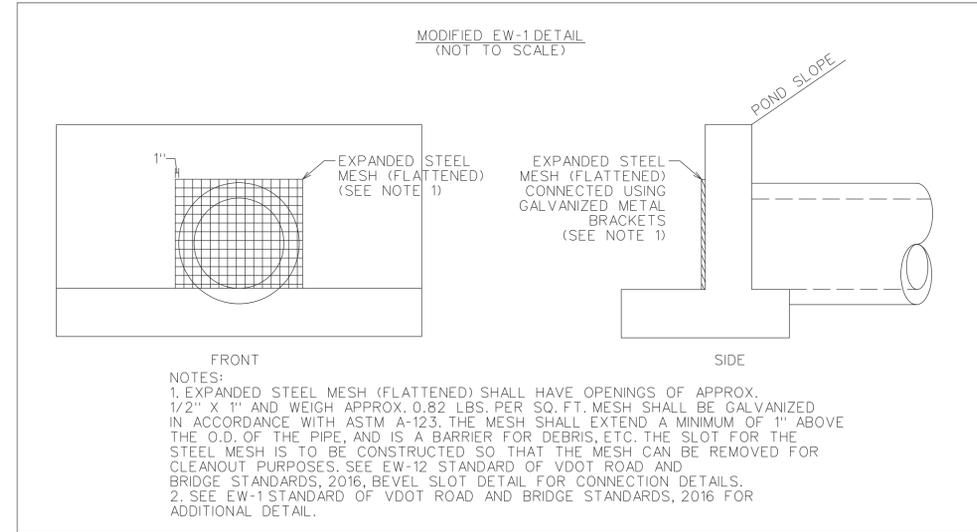


- * - PUMPOUT REQD FROM WSEL 719.50 TO 715.00
- ** - (2) 2.0' x 1.0' SLOTS IN FLOOD WALL (CONTROL ORIFICE) INV=723.75
- *** - (1) 18" CULVERT INV. INTO DEWATERING WELL (POOL ORIFICE) INV=721.01

NOT TO SCALE



NOT TO SCALE

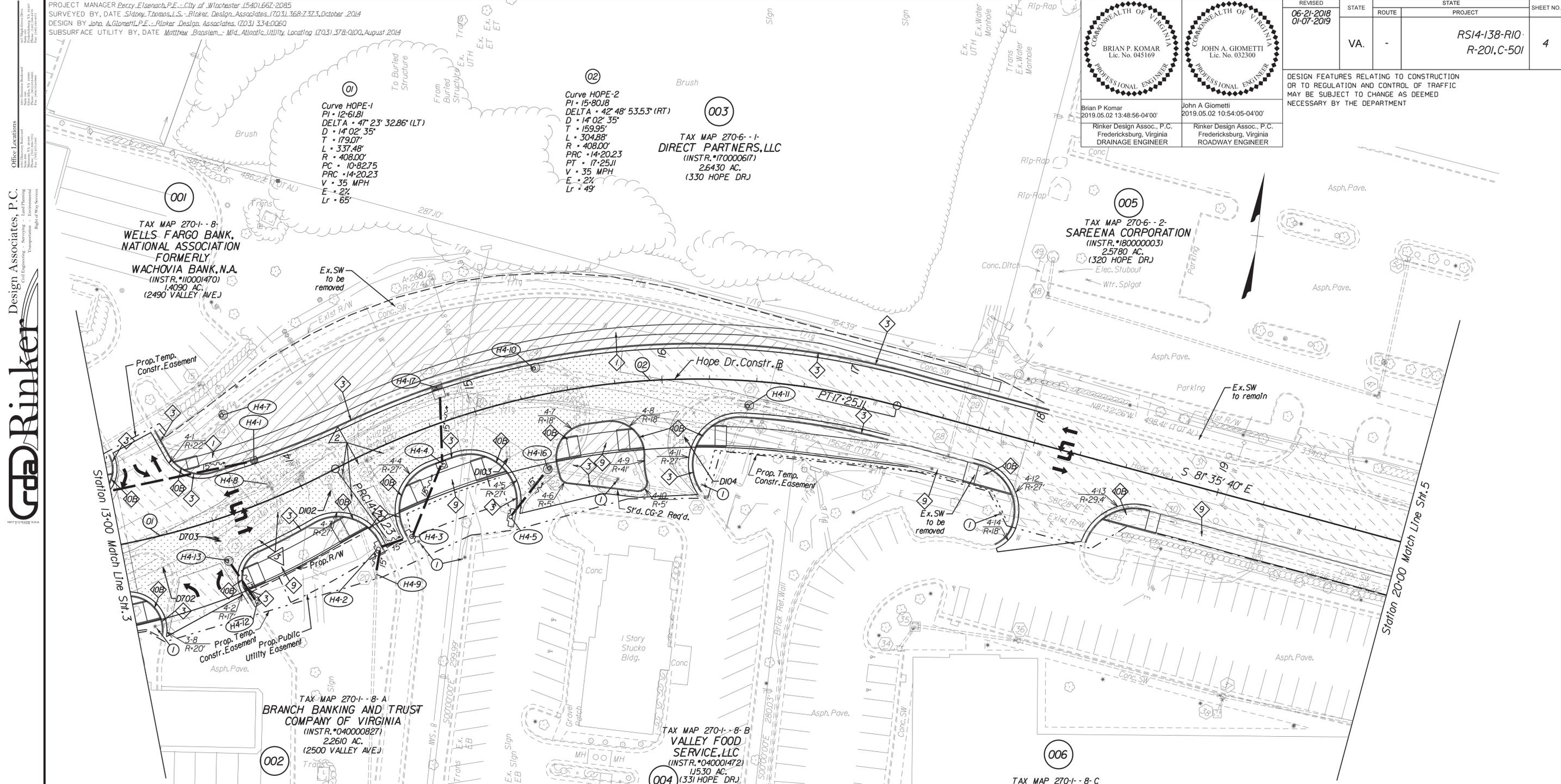


NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL.

Office Locations: Richmond, VA; Fredericksburg, VA; Alexandria, VA; Falls Church, VA; Fairfax, VA; Herndon, VA; Manassas, VA; Manassas Park, VA; Reston, VA; Stafford, VA; Warrenton, OR; Washington, DC
 Rinker Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Environmental Engineering • Transportation Engineering • Right of Way Services

PROJECT MANAGER *Erny Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem - Mtd. Atlantic Utility Locating* (703) 378-0100, August 2014

		REVISED	STATE	STATE	SHEET NO.
		06-21-2018 01-07-2019	VA.	PROJECT	4
Brian P. Komar 2019.05.02 13:48:56-04'00" Rinker Design Assoc., P.C. Fredericksburg, Virginia DRAINAGE ENGINEER		John A. Giometti 2019.05.02 10:54:05-04'00" Rinker Design Assoc., P.C. Fredericksburg, Virginia ROADWAY ENGINEER		PROJECT RS14-138-R10 R-201,C-501	
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					



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

001
 TAX MAP 270-I-8-
 WELLS FARGO BANK,
 NATIONAL ASSOCIATION
 FORMERLY
 WACHOVIA BANK, N.A.
 (INSTR. #10001470)
 1,409.0 AC.
 (2490 VALLEY AVE.)

002
 Curve HOPE-2
 PI = 15+80.18
 DELTA = 42° 48' 53.53" (RT)
 D = 14' 02" 35"
 T = 159.95'
 L = 304.88'
 R = 408.00'
 PRC = 14° 20' 23"
 PT = 17+25.11
 V = 35 MPH
 E = 2%
 Lr = 4%

003
 TAX MAP 270-6-1-1
 DIRECT PARTNERS, LLC
 (INSTR. #170000617)
 2,643.0 AC.
 (330 HOPE DR.)

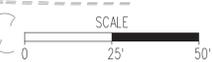
005
 TAX MAP 270-6-2-2
 SAREENA CORPORATION
 (INSTR. #180000003)
 2,578.0 AC.
 (320 HOPE DR.)

002
 TAX MAP 270-I-8-A
 BRANCH BANKING AND TRUST
 COMPANY OF VIRGINIA
 (INSTR. #040000827)
 2,261.0 AC.
 (2500 VALLEY AVE.)

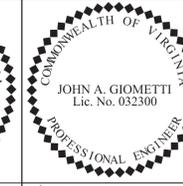
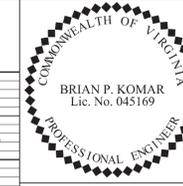
004
 TAX MAP 270-I-8-B
 VALLEY FOOD
 SERVICE, LLC
 (INSTR. #040001472)
 1,153.0 AC.
 (331 HOPE DR.)

006
 TAX MAP 270-I-8-C
 ZOLMIA PROPERTIES, LLC
 (INSTR. #160002346)
 2,780.0 AC.
 (321 HOPE DR.)

Roadway Design Legend		Drainage Legend	
1 → Denotes 5' Concrete Sidewalk Req'd.	6 → Denotes Brick Median w/ CG-2 Req'd.	1 → Denotes To be Abandoned	
2B → Denotes S'd. CG-12 Req'd. (Type In Label)	7 → Denotes S'd. MS-2 w/ CG-2 Req'd.	2 → Denotes To be Removed	
3 → Denotes S'd. CG-6 Req'd.	8 → Denotes 8' Shared Use Path Req'd.	3 → Denotes Pipes to be Cleaned	
4 → Not used	9 → Denotes 10' Shared Use Path Req'd.	R/W Legend	
5 → Not Used	10B → Denotes Mod. CG-12 Req'd. (Type In Label) (No Detectable Warning Trunc. Domes)	- - - Denotes S'd. Variable Width Temp. Ease.	
Denotes Demo. of Pav.	11 → Denotes 6' Concrete Sidewalk Req'd.	- - - Denotes S'd. Variable Width Perm. Ease.	
Denotes Full Depth Pav.	12 → Denotes 4' Concrete Sidewalk Req'd.	Ⓢ Denotes Contractor Not to Disturb	
Denotes Mill and Overlay/Bulldup	C → Denotes Construction Limits In Cuts		
Denotes Obscuring of Pavement	F → Denotes Construction Limits In Fills		



PROJECT MANAGER *Becry Eisenach, P.E., City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E., Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem, Mid-Atlantic Utility Locating (703) 378-0100, August 2014*



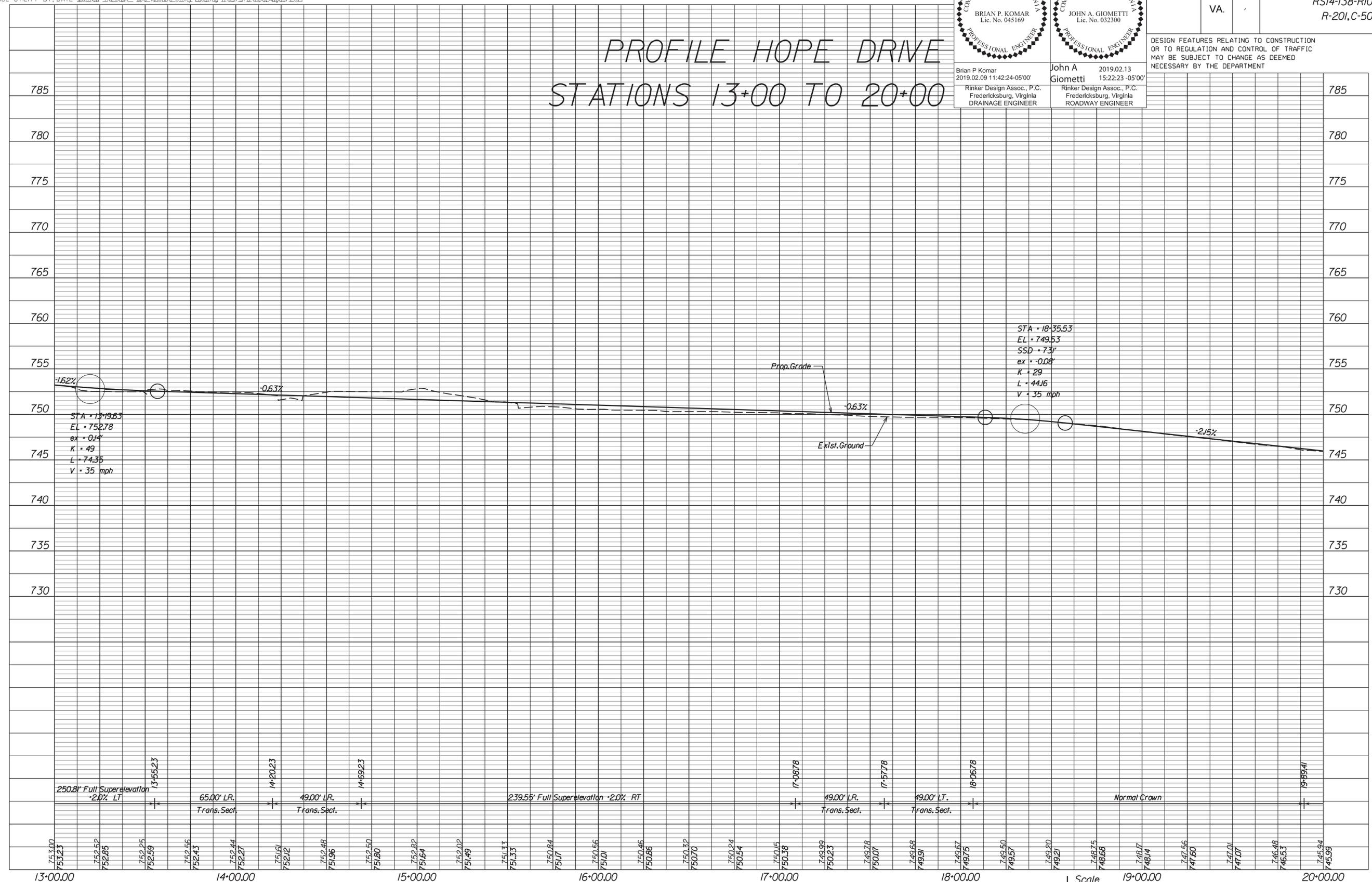
Brian P. Komar
2019.02.09 11:42:24-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A. Giometti
2019.02.13 15:22:23 -05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-RIO-R-201,C-501	4A

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

PROFILE HOPE DRIVE STATIONS 13+00 TO 20+00



STA = 13+19.65
EL = 752.78
ex = 0.14'
K = 49
L = 74.35
V = 35 mph

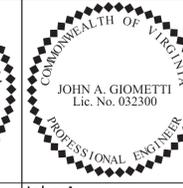
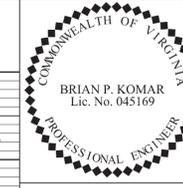
STA = 18+35.53
EL = 749.53
SSD = 731'
ex = -0.08'
K = 29
L = 44.16
V = 35 mph

753.00	752.52	752.25	752.56	752.44	751.61	752.48	752.50	752.82	752.02	751.33	750.84	750.56	750.46	750.52	750.24	750.15	749.99	749.78	749.68	749.67	749.50	749.20	748.75	748.17	747.56	747.01	746.48	745.94
13+00.00			14+00.00				15+00.00				16+00.00			17+00.00				18+00.00				19+00.00				20+00.00		

2.5' Scale
25'

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 Civil Engineering • Surveying • Land Planning
 Transportation • Stormwater Management • Right of Way Services

PROJECT MANAGER *Becry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014



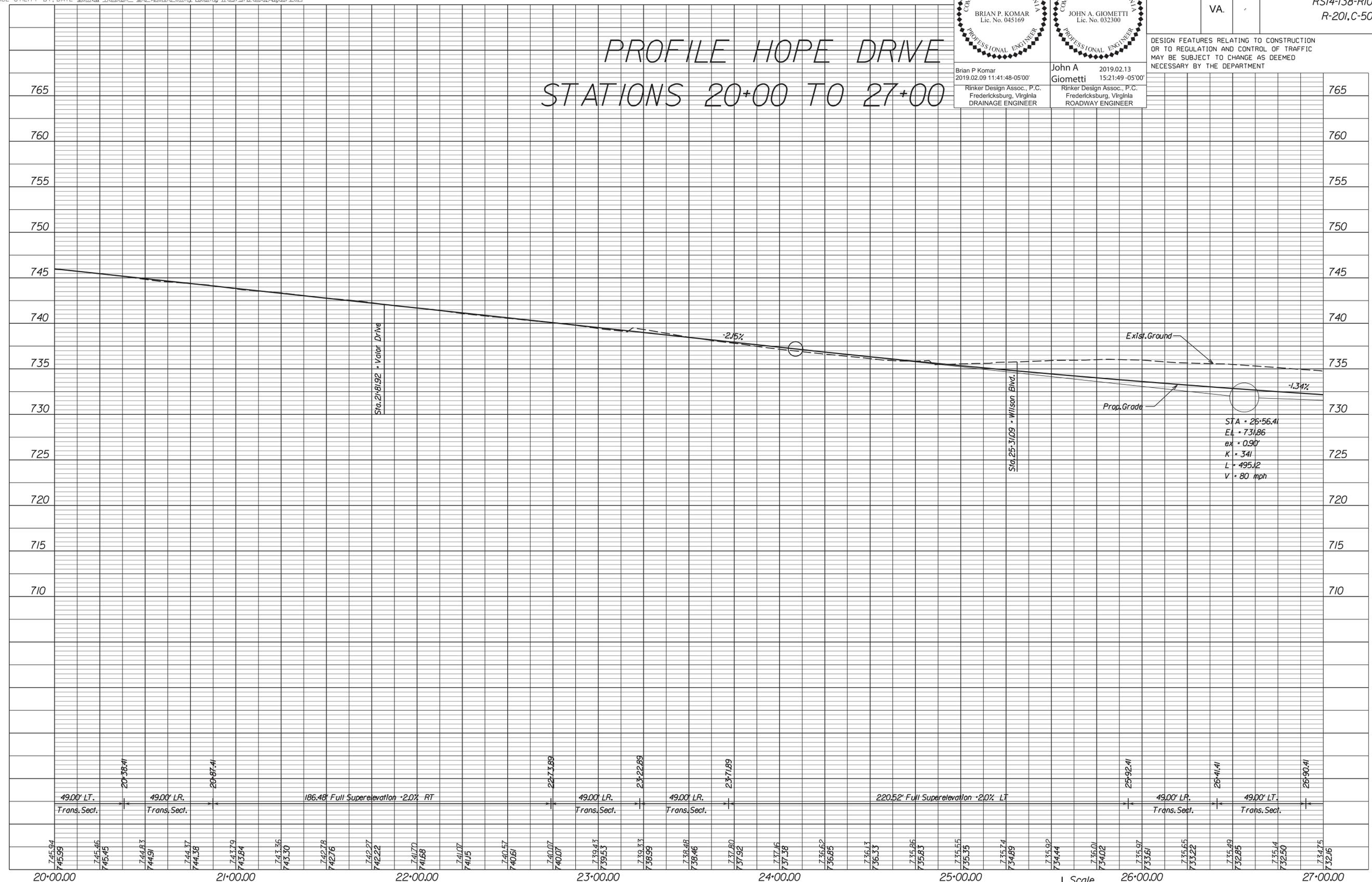
Brian P Komar
2019.02.09 11:41:48-05'00'
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A Giometti
2019.02.13 15:21:49-05'00'
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-RIO-R-201,C-501	5A

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

PROFILE HOPE DRIVE STATIONS 20+00 TO 27+00



Scale
25' = 1"

PROJECT MANAGER *Eric Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslam* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

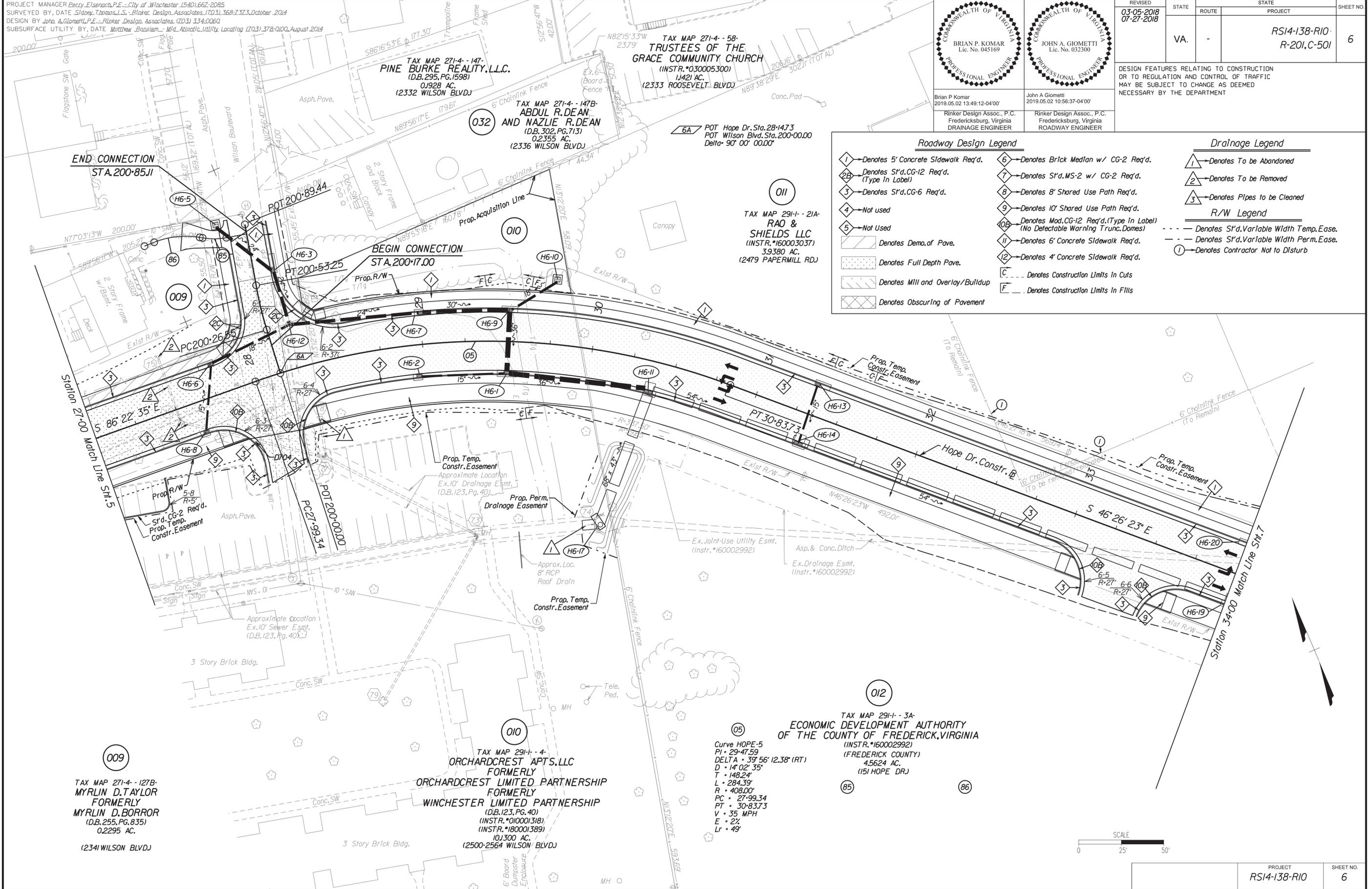
COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER
 Brian P Komar
 2019.05.02 13:49:12-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER
 John A Giometti
 2019.05.02 10:56:37-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
03-05-2018 07-27-2018	VA.	-	VA.	RS14-138-R10 R-201,C-501	6

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

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



Roadway Design Legend

- ① - Denotes 5' Concrete Sidewalk Req'd.
- ②B - Denotes S'd. CG-12 Req'd. (Type In Label)
- ③ - Denotes S'd. CG-6 Req'd.
- ④ - Not used
- ⑤ - Not Used
- [Hatched Box] - Denotes Demo. of Pave.
- [Dotted Box] - Denotes Full Depth Pave.
- [Diagonal Lines Box] - Denotes Mill and Overlay/Buildup
- [Cross-hatched Box] - Denotes Obscuring of Pavement
- ⑥ - Denotes Brick Median w/ CG-2 Req'd.
- ⑦ - Denotes S'd. MS-2 w/ CG-2 Req'd.
- ⑧ - Denotes 8' Shared Use Path Req'd.
- ⑨ - Denotes 10' Shared Use Path Req'd.
- ⑩B - Denotes Mod. CG-12 Req'd. (Type In Label) (No Detectable Warning Trunc. Domes)
- ⑪ - Denotes 6' Concrete Sidewalk Req'd.
- ⑫ - Denotes 4' Concrete Sidewalk Req'd.
- C - Denotes Construction Limits In Cuts
- F - Denotes Construction Limits In Fills

Drainage Legend

- ① - Denotes To be Abandoned
- ② - Denotes To be Removed
- ③ - Denotes Pipes to be Cleaned

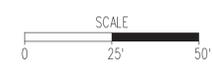
R/W Legend

- - - - - Denotes S'd. Variable Width Temp. Ease.
- - - - - Denotes S'd. Variable Width Perm. Ease.
- ① - Denotes Contractor Not to Disturb

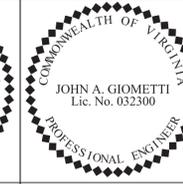
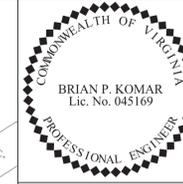
009
 TAX MAP 271-4 - 127B-
 MYRLIN D. TAYLOR
 FORMERLY
 MYRLIN D. BORROR
 (D.B. 255, PG. 835)
 0.2295 AC.
 (2341 WILSON BLVD.)

010
 TAX MAP 291-I - 4-
 ORCHARDCREST APTS. LLC
 FORMERLY
 ORCHARDCREST LIMITED PARTNERSHIP
 FORMERLY
 WINCHESTER LIMITED PARTNERSHIP
 (D.B. 123, PG. 40)
 (INSTR. *010001318)
 (INSTR. *180001389)
 101,300 AC.
 (2500-2564 WILSON BLVD.)

012
 TAX MAP 291-I - 3A-
 ECONOMIC DEVELOPMENT AUTHORITY
 OF THE COUNTY OF FREDERICK, VIRGINIA
 (INSTR. *160002992)
 (FREDERICK COUNTY)
 4,5624 AC.
 (151 HOPE DR.)



PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY DATE Matthew Braslam, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

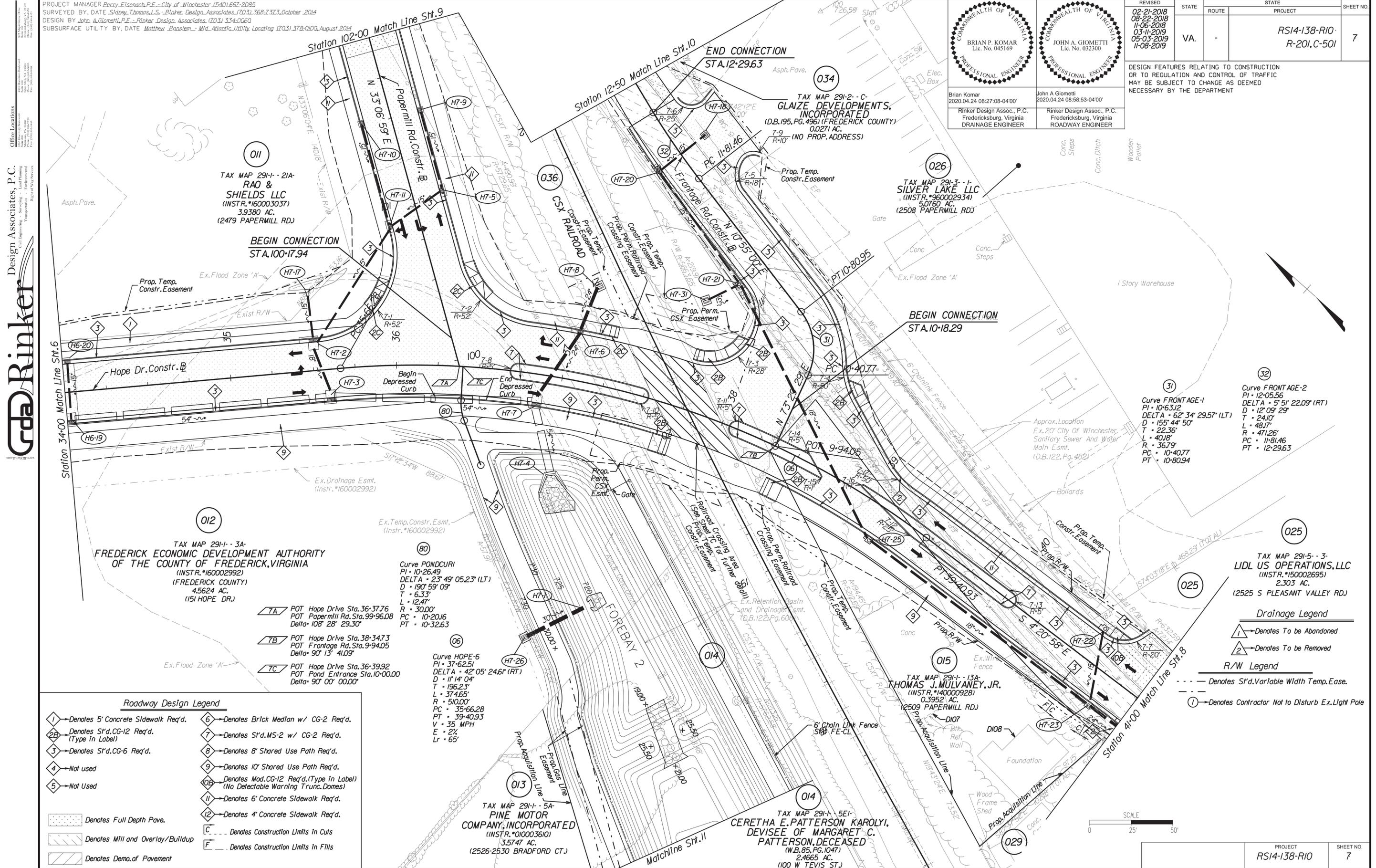


REVISED	STATE	ROUTE	PROJECT	SHEET NO.
02-21-2018 08-22-2018 11-06-2018 03-11-2019 05-03-2019 11-08-2019	VA.	-	RS14-138-R10- R-201,C-501	7

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

Brian Komar
2020.04.24 08:27:08-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A. Giometti
2020.04.24 08:58:53-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER



Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Stormwater - Right of Way Services

TAX MAP 291-I - 21A-
RAO &
SHIELDS LLC
(INSTR. #160003037)
3.9380 AC.
(2479 PAPERMILL RD.)

BEGIN CONNECTION
STA. 100+17.94

END CONNECTION
STA. 12+29.63

BEGIN CONNECTION
STA. 10+18.29

TAX MAP 291-I - 3A-
FREDERICK ECONOMIC DEVELOPMENT AUTHORITY
OF THE COUNTY OF FREDERICK, VIRGINIA
(INSTR. #160002992)
(FREDERICK COUNTY)
4.5624 AC.
(151 HOPE DR.)

- TA POT Hope Drive Sta. 36-37.76
POT Papermill Rd. Sta. 99-96.08
Delta= 108' 28" 29.30'
- TB POT Hope Drive Sta. 38-34.73
POT Frontage Rd. Sta. 9-94.05
Delta= 90' 13" 41.09'
- TC POT Hope Drive Sta. 36-39.92
POT Pond Entrance Sta. 10+00.00
Delta= 90' 00" 00.00'

Curve POND CURVE
PI = 10+26.49
DELTA = 23' 49" 05.23' (LT)
D = 190' 59" 09"
T = 6.33'
L = 12.47'
R = 30.00'
PC = 10+20.16
PT = 10+32.63

Curve HOPE-6
PI = 37+62.51
DELTA = 42' 05" 24.61' (RT)
D = 11' 14" 04"
T = 196.23'
L = 374.65'
R = 510.00'
PC = 35+66.28
PT = 39+40.93
V = 35 MPH
E = 2%
Lr = 65'

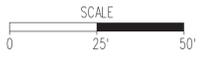
Curve FRONTAGE-1
PI = 10+63.12
DELTA = 62' 34" 29.57' (LT)
D = 155' 44' 50"
T = 22.36'
L = 40.18'
R = 36.79'
PC = 10+40.77
PT = 10+80.94

TAX MAP 291-5 - 3-
LIDL US OPERATIONS, LLC
(INSTR. #150002695)
2.303 AC.
(12525 S PLEASANT VALLEY RD.)

- Drainage Legend**
- 1 - Denotes To be Abandoned
 - 2 - Denotes To be Removed
- R/W Legend**
- - - Denotes S'd. Variable Width Temp. Ease.
 - 1 - Denotes Contractor Not to Disturb Ex. Light Pole

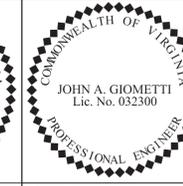
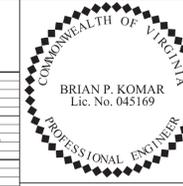
Roadway Design Legend

- 1 - Denotes 5' Concrete Sidewalk Req'd.
- 2B - Denotes S'd. CG-12 Req'd. (Type In Label)
- 3 - Denotes S'd. CG-6 Req'd.
- 4 - Not used
- 5 - Not Used
- 6 - Denotes Brick Median w/ CG-2 Req'd.
- 7 - Denotes S'd. MS-2 w/ CG-2 Req'd.
- 8 - Denotes 8' Shared Use Path Req'd.
- 9 - Denotes 10' Shared Use Path Req'd.
- 10B - Denotes Mod. CG-12 Req'd. (Type In Label) (No Detectable Warning Trunc. Domes)
- 11 - Denotes 6' Concrete Sidewalk Req'd.
- 12 - Denotes 4' Concrete Sidewalk Req'd.
- C - Denotes Construction Limits In Cuts
- F - Denotes Construction Limits In Fills
- [Pattern] - Denotes Full Depth Pave.
- [Pattern] - Denotes Mill and Overlay/Bulldup
- [Pattern] - Denotes Demo. of Pavement



PROJECT	SHEET NO.
RS14-138-R10	7

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014



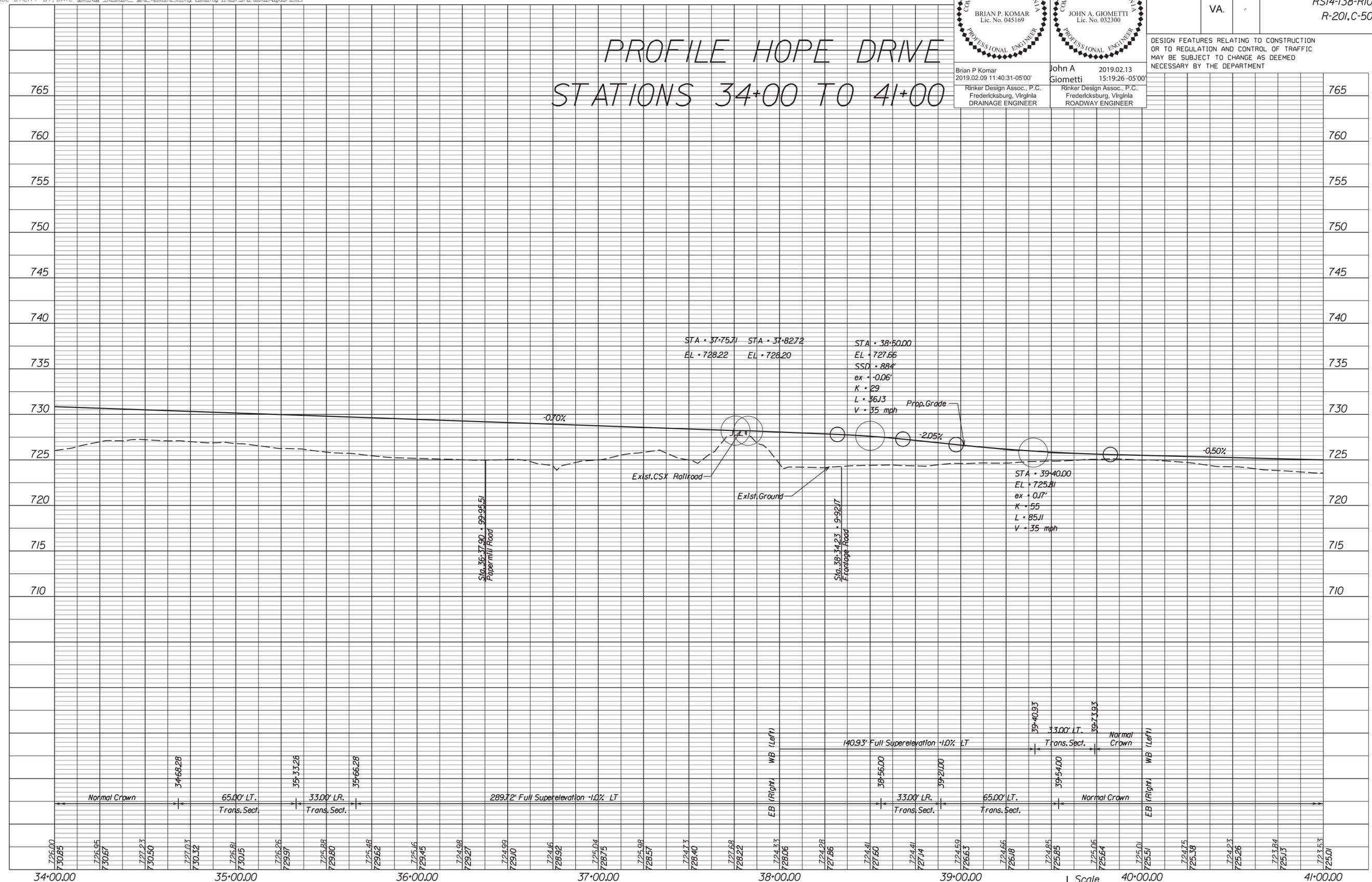
Brian P Komar
2019.02.09 11:40:31-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A Giometti
2019.02.13 15:19:26 -05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-RIO- R-201,C-501	7A

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

PROFILE HOPE DRIVE STATIONS 34+00 TO 41+00

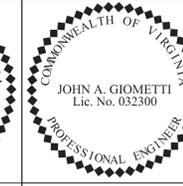
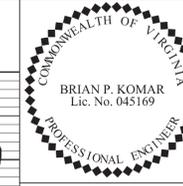


Office Locations:
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 1000, Fairfax, VA 22031
 703-334-0060
 10000 Woodloch Forest Drive, Suite 1000, Fairfax, VA 22031
 703-334-0060
 10000 Woodloch Forest Drive, Suite 1000, Fairfax, VA 22031
 703-334-0060

Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Stormwater Management - Right of Way Services

2.5' Scale
25'

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew Ranslem, Mid-Atlantic Utility Locating (703) 378-0100, August 2014



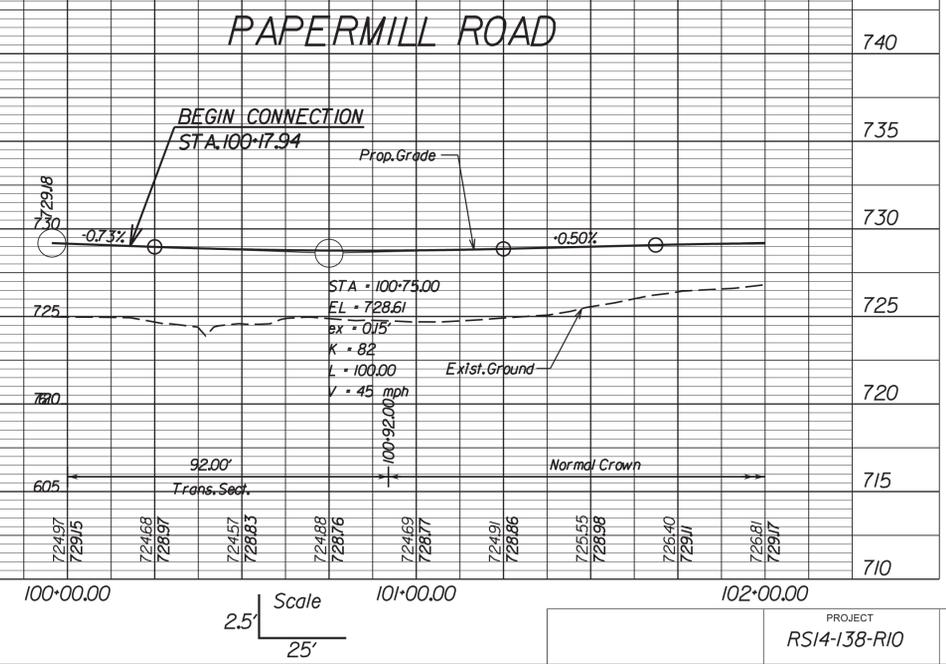
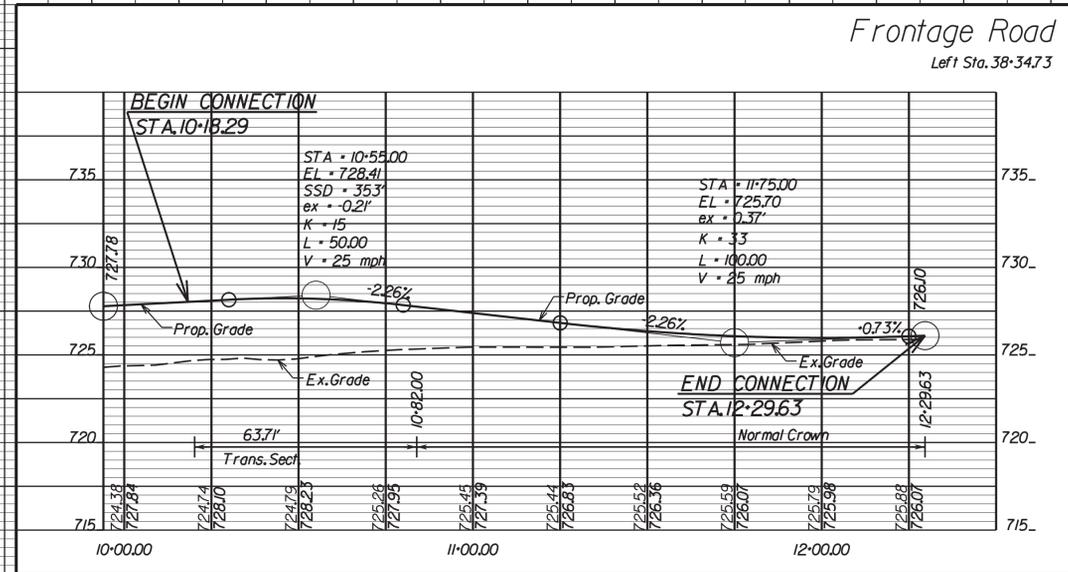
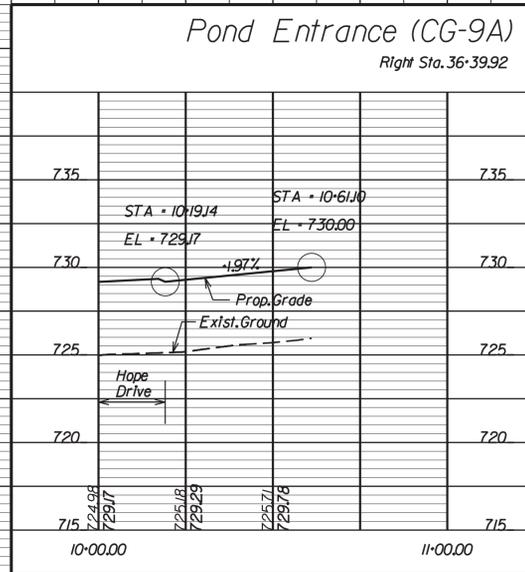
Brian Komar
2020.04.24 08:25:30-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A. Giometti
2020.04.24 08:58:35-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED 11-08-2019	STATE VA.	ROUTE	STATE PROJECT RS14-138-R10- R-201,C-501	SHEET NO. 7B
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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

PROFILE FRONTAGE ROAD & PAPERMILL ROAD STATIONS 10+00 TO 13+75.00 & 100+00 TO 102+00



Office Locations: Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Springfield, VA; Warrenton, OR; Washington, DC; Winchester, VA
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Stormwater Management • Right-of-Way Services

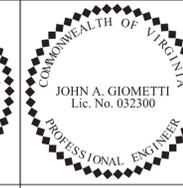


Scale
2.5" = 25'

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew, Ranslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

CSX Railroad Crossing Detail

Hope Drive



Brian Komar
2020.04.24 08:25:09-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A. Giometti
2020.04.24 08:58:16-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE		STATE	SHEET NO.
	ROUTE	PROJECT		
	VA.	-	RS14-138-R10- R-201,C-501	7C

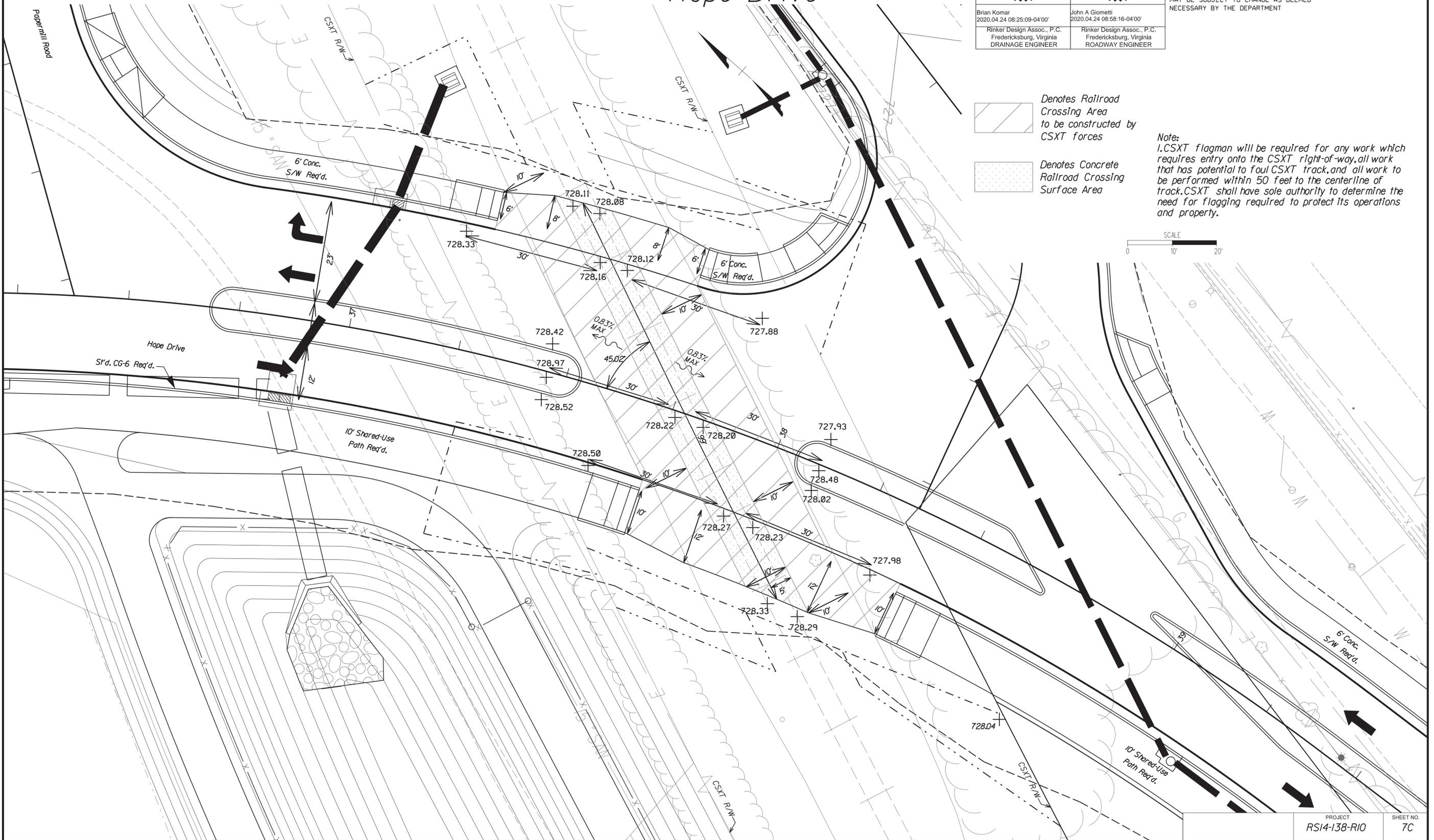
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Note:
1. CSXT flagman will be required for any work which requires entry onto the CSXT right-of-way, all work that has potential to foul CSXT track, and all work to be performed within 50 feet to the centerline of track. CSXT shall have sole authority to determine the need for flagging required to protect its operations and property.

- Denotes Railroad Crossing Area to be constructed by CSXT forces
- Denotes Concrete Railroad Crossing Surface Area



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



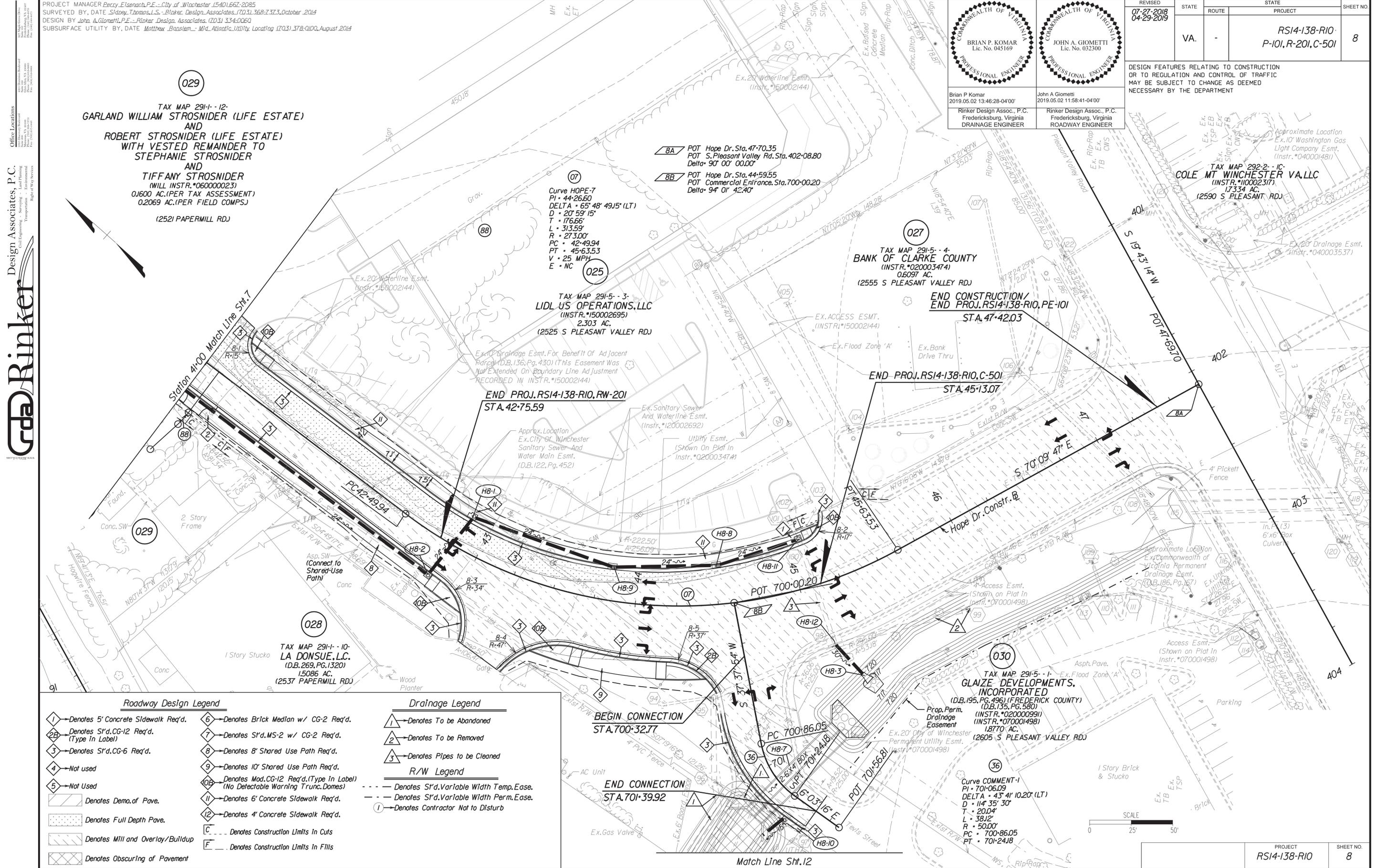
PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslam, M.D.* - *Atlantic Utility Locating* (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER
 BRIAN P. KOMAR
 Lic. No. 045169

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER
 JOHN A. GIOMETTI
 Lic. No. 032300

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
07-27-2018 04-29-2019	VA.	-	VA.	RS14-138-RIO P-101, R-201, C-501	8

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



029
 TAX MAP 291-I-12
 GARLAND WILLIAM STROSNIER (LIFE ESTATE)
 AND
 ROBERT STROSNIER (LIFE ESTATE)
 WITH VESTED REMAINDER TO
 STEPHANIE STROSNIER
 AND
 TIFFANY STROSNIER
 (WILL INSTR. *060000023)
 0.2069 AC. (PER TAX ASSESSMENT)
 0.2069 AC. (PER FIELD COMPS.)
 (2521 PAPERMILL RD.)

025
 TAX MAP 291-5-3
 LIDL US OPERATIONS, LLC
 (INSTR. *150002695)
 2.303 AC.
 (2525 S PLEASANT VALLEY RD.)

027
 TAX MAP 291-5-4
 BANK OF CLARKE COUNTY
 (INSTR. *020003474)
 0.6097 AC.
 (2555 S PLEASANT VALLEY RD.)

TAX MAP 292-2-1C
 COLE MT WINCHESTER VA, LLC
 (INSTR. *10002317)
 17334 AC.
 (2590 S PLEASANT RD.)

030
 TAX MAP 291-5-1
 GLAIZE DEVELOPMENTS,
 INCORPORATED
 (D.B. 195, PG. 496) (FREDERICK COUNTY)
 (D.B. 135, PG. 580)
 (INSTR. *020000991)
 (INSTR. *070001498)
 1.8770 AC.
 (2605 S PLEASANT VALLEY RD.)

028
 TAX MAP 291-I-10
 LA DONSUE, L.C.
 (D.B. 269, PG. 1320)
 1.5086 AC.
 (2537 PAPERMILL RD.)

Roadway Design Legend

- 1 - Denotes 5' Concrete Sidewalk Req'd.
- 2B - Denotes 5' d. CG-12 Req'd. (Type In Label)
- 3 - Denotes 8' Shared Use Path Req'd.
- 4 - Not used
- 5 - Not Used
- [Hatched] - Denotes Demo. of Pav.
- [Dotted] - Denotes Full Depth Pav.
- [Diagonal Lines] - Denotes Mill and Overlay/Bulldup
- [Cross-hatched] - Denotes Obscuring of Pavement
- 6 - Denotes Brick Median w/ CG-2 Req'd.
- 7 - Denotes 5' d. MS-2 w/ CG-2 Req'd.
- 8 - Denotes 8' Shared Use Path Req'd.
- 9 - Denotes 10' Shared Use Path Req'd.
- 10B - Denotes Mod. CG-12 Req'd. (Type In Label) (No Detectable Warning Trunc. Domes)
- 11 - Denotes 6' Concrete Sidewalk Req'd.
- 12 - Denotes 4' Concrete Sidewalk Req'd.
- C - Denotes Construction Limits In Cuts
- F - Denotes Construction Limits In Fills

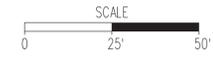
Drainage Legend

- 1 - Denotes To be Abandoned
- 2 - Denotes To be Removed
- 3 - Denotes Pipes to be Cleaned

R/W Legend

- [Dashed] - Denotes 5' d. Variable Width Temp. Ease.
- [Dotted] - Denotes 5' d. Variable Width Perm. Ease.
- 1 - Denotes Contractor Not to Disturb

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Dr., Suite 100
 Raleigh, NC 27617
 (919) 871-1000
 www.rinkerdesign.com



PROJECT	SHEET NO.
RS14-138-RIO	8

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mtd. Atlantic Utility Locating* (703) 378-0100, August 2014

Office Locations
 Fredericksburg, VA
 Charlottesville, VA
 Leesville, VA
 Norfolk, VA
 Petersburg, VA
 Richmond, VA
 Roanoke, VA
 Salem, VA
 Staunton, VA
 Virginia Beach, VA
 Winchester, VA

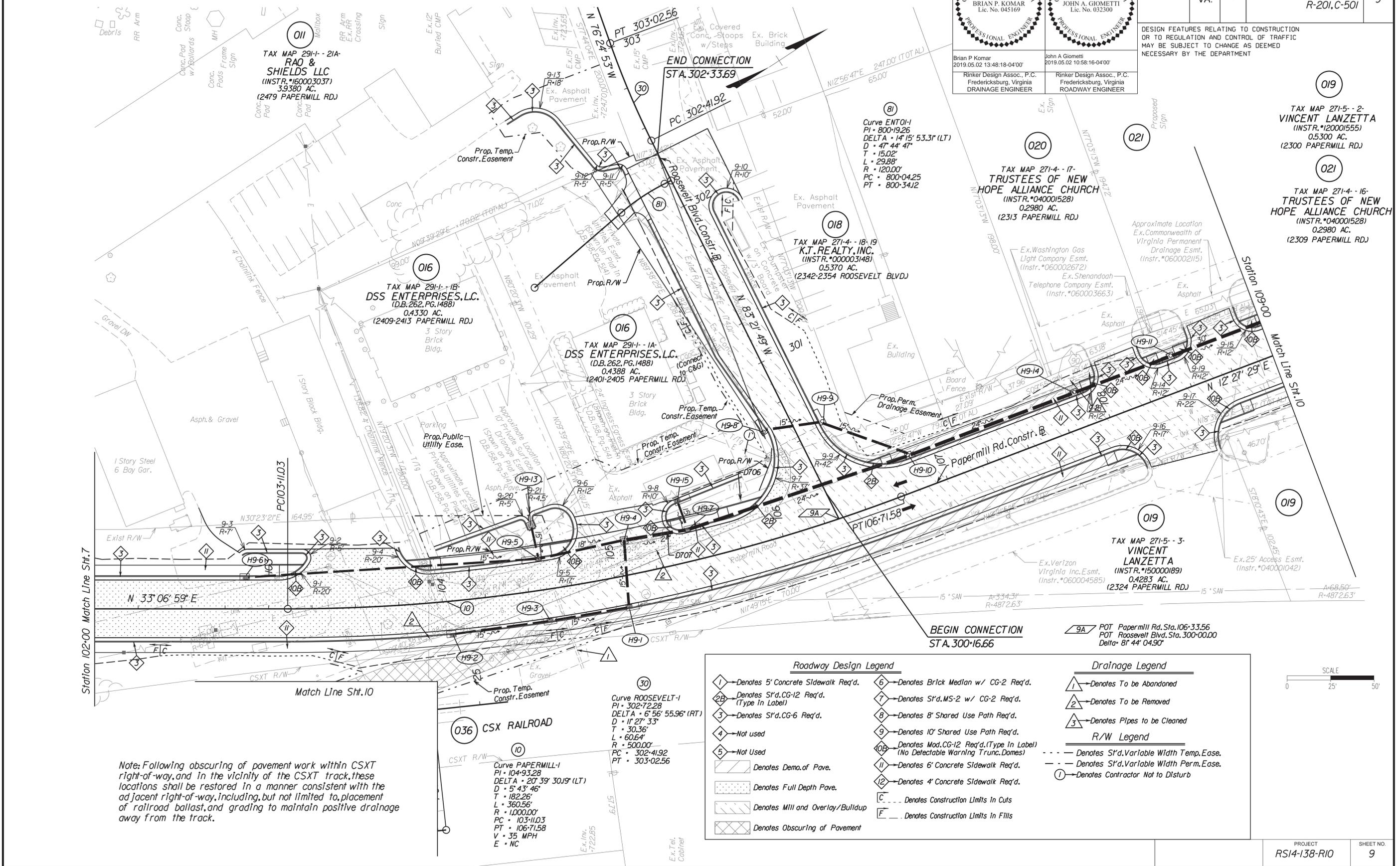
Rinker Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Right of Way Services

		REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
		08-22-2018	VA.	-	-	RS14-138-R10 R-201,C-501	9

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

Brian P Komar
2019.05.02 13:48:18-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A Giometti
2019.05.02 10:58:16-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER



Station 102+00 Match Line Sht.7

Match Line Sht.10

Note: Following obscuring of pavement work within CSXT right-of-way, and in the vicinity of the CSXT track, these locations shall be restored in a manner consistent with the adjacent right-of-way, including, but not limited to, placement of railroad ballast, and grading to maintain positive drainage away from the track.

Roadway Design Legend		Drainage Legend	
	Denotes 5' Concrete Sidewalk Req'd.		Denotes To be Abandoned
	Denotes SF'd CG-12 Req'd. (Type in Label)		Denotes To be Removed
	Denotes SF'd CG-6 Req'd.		Denotes Pipes to be Cleaned
	Not used	R/W Legend	
	Not Used		Denotes SF'd Variable Width Temp. Ease.
	Denotes Brick Median w/ CG-2 Req'd.		Denotes SF'd Variable Width Perm. Ease.
	Denotes SF'd MS-2 w/ CG-2 Req'd.		Denotes Contractor Not to Disturb
	Denotes 8' Shared Use Path Req'd.		
	Denotes 10' Shared Use Path Req'd.		
	Denotes Mod. CG-12 Req'd. (Type in Label) (No Detectable Warning Trunc. Domes)		
	Denotes 6' Concrete Sidewalk Req'd.		
	Denotes 4' Concrete Sidewalk Req'd.		
	Denotes Construction Limits in Cuts		
	Denotes Construction Limits in Fills		
	Denotes Demo of Pavement		
	Denotes Full Depth Pavement		
	Denotes Mill and Overlay/Buildup		
	Denotes Obscuring of Pavement		



PROJECT MANAGER *Erny Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

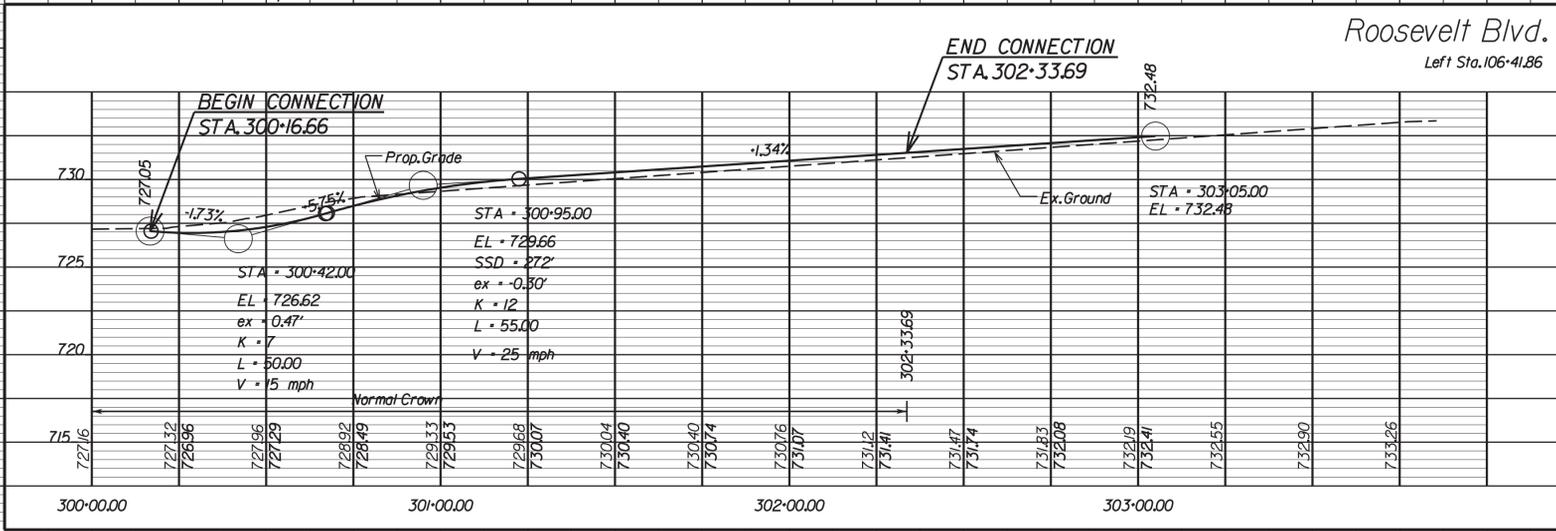
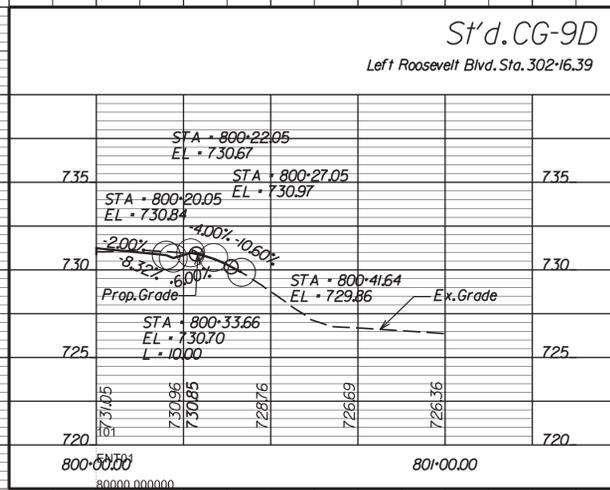
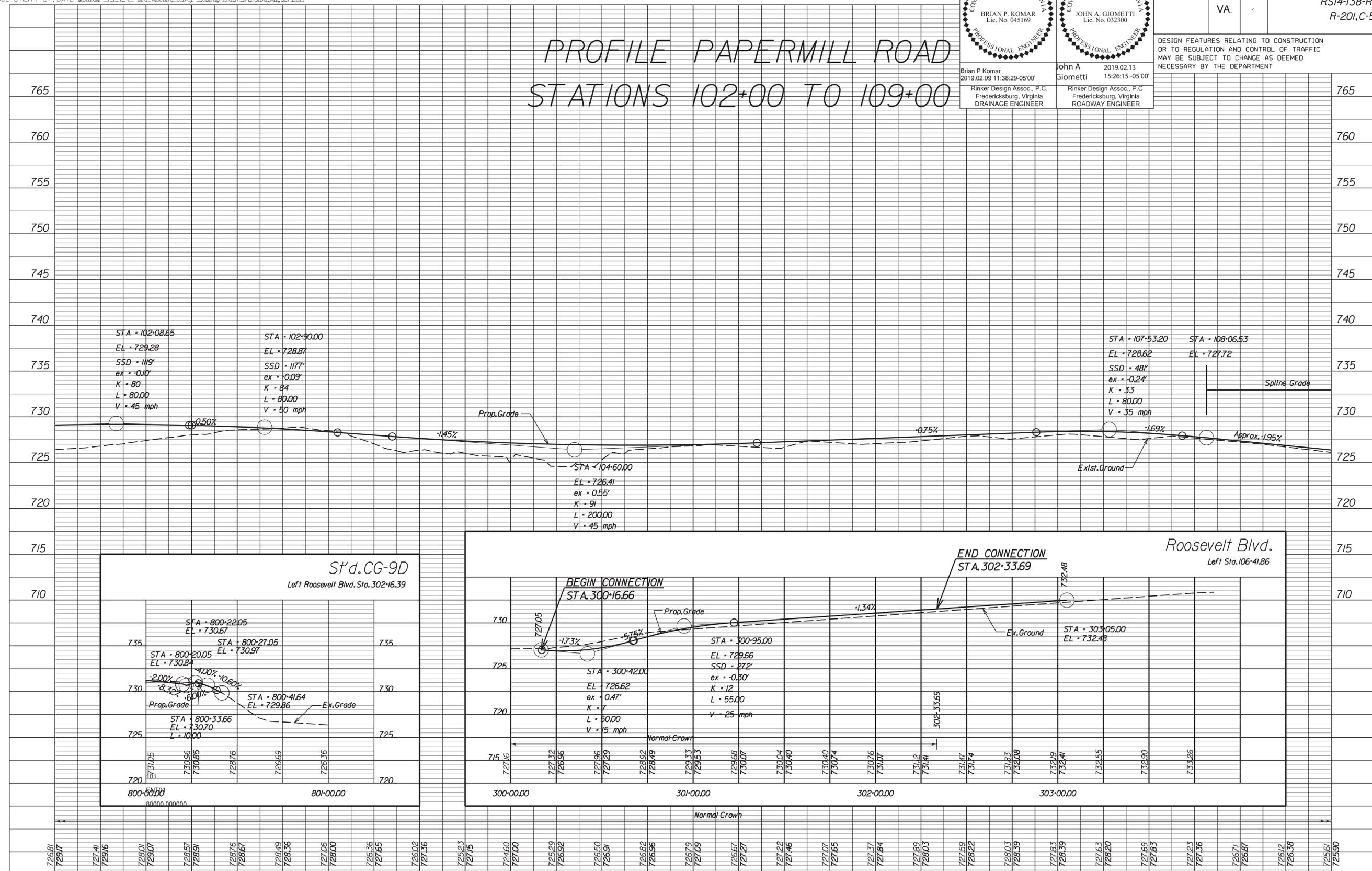
COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER
 Brian P Komar
 2019.02.09 11:38:29-05'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER
 John A Giometti
 2019.02.13 15:26:15 -05'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.			RS14-138-R10 R-201,C-501	9A

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

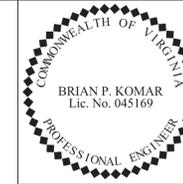
PROFILE PAPERMILL ROAD STATIONS 102+00 TO 109+00



Rinker
 Design Associates, P.C.
 Office Locations: Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Springfield, VA; Tyngsboro, VA; Warrenton, OR; Washington, DC; Winchester, VA
 Services: Civil Engineering, Surveying, Land Planning, Transportation, Engineering, Right of Way Services

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE Matthew, Basile, M.D. - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

CSX Railroad Crossing Detail Papermill Road



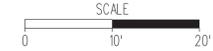
Brian Komar
2020.04.24 08:24:48-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A. Giometti
2020.04.24 08:57:56-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

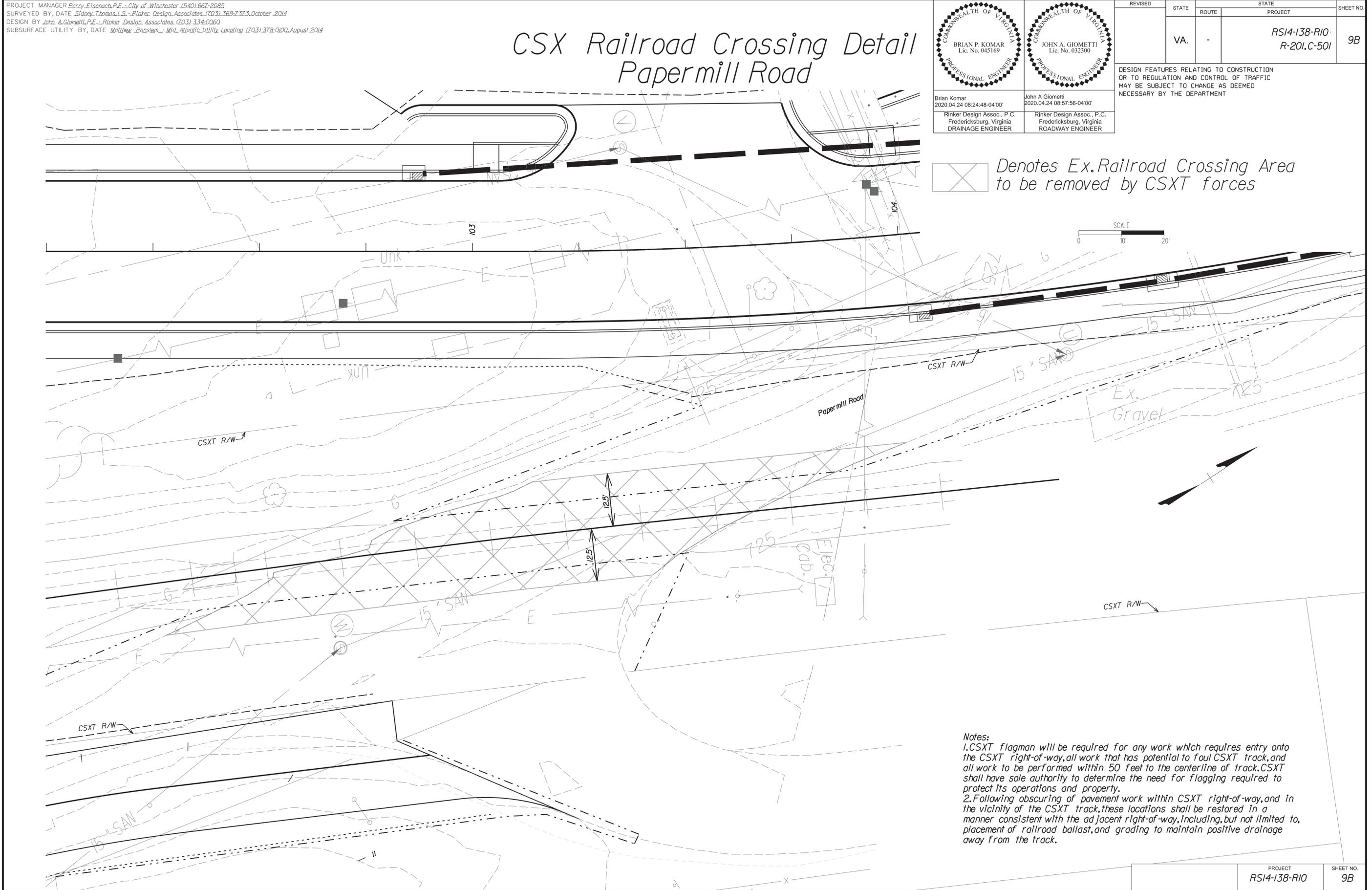
REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	-	RS14-138-R10- R-201,C-501	9B

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

Denotes Ex. Railroad Crossing Area to be removed by CSXT forces



Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Fredericksburg, VA 22409
 (703) 334-0060
 www.rinker.com



Notes:
 1. CSXT flagman will be required for any work which requires entry onto the CSXT right-of-way, all work that has potential to foul CSXT track, and all work to be performed within 50 feet to the centerline of track. CSXT shall have sole authority to determine the need for flagging required to protect its operations and property.
 2. Following obscuring of pavement work within CSXT right-of-way, and in the vicinity of the CSXT track, these locations shall be restored in a manner consistent with the adjacent right-of-way, including, but not limited to, placement of railroad ballast, and grading to maintain positive drainage away from the track.

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

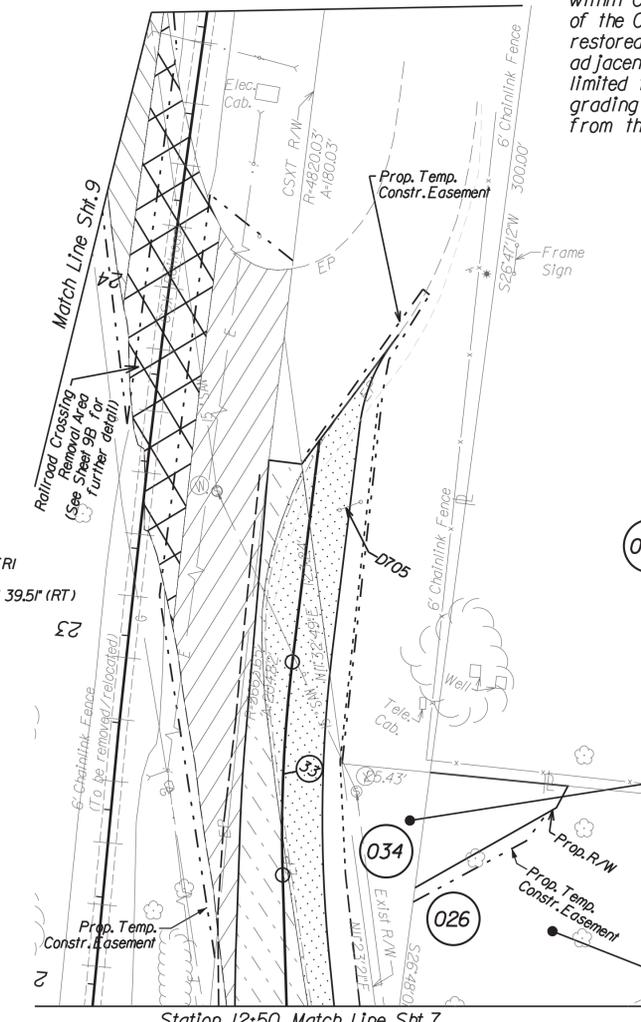
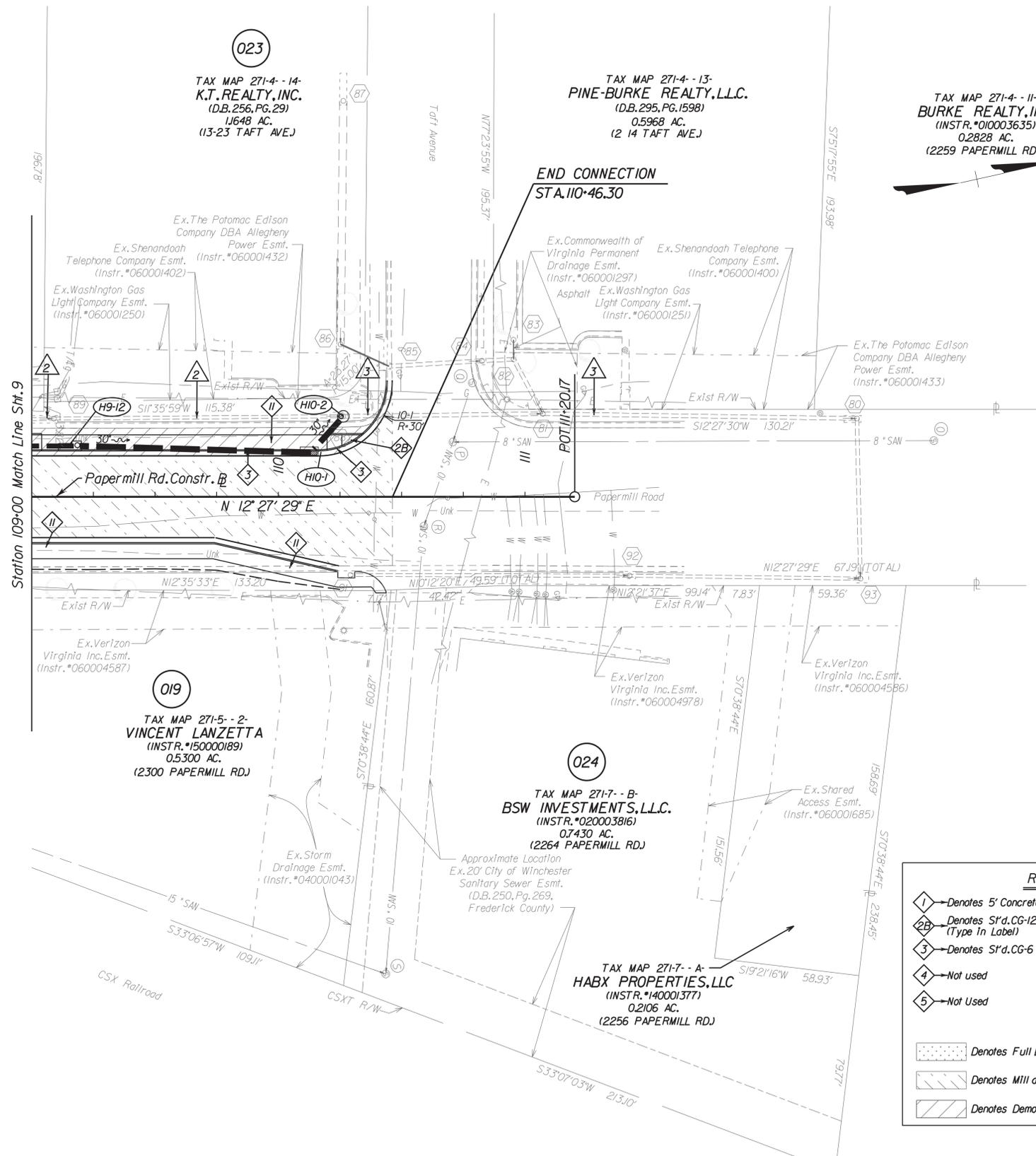
COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
08-22-2018 07-24-2019 11-08-2019	VA.	-	VA.	RS14-138-RIO- R-201,C-501	10

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Old Dominion Blvd., Suite 100
 Fairfax, VA 22030
 (703) 334-0060
 10000 Old Dominion Blvd., Suite 100
 Fairfax, VA 22030
 (703) 334-0060
 10000 Old Dominion Blvd., Suite 100
 Fairfax, VA 22030
 (703) 334-0060



Note: Following obscuring of pavement work within CSXT right-of-way, and in the vicinity of the CSXT track, these locations shall be restored in a manner consistent with the adjacent right-of-way, including, but not limited to, placement of railroad ballast, and grading to maintain positive drainage away from the track.

033
 TAX MAP 291-2 - A - B
 FEDERAL-MOGUL PRODUCTS US, LLC
 FORMERLY
 FEDERAL-MOGUL PRODUCTS, INC.
 FORMERLY
 MOOG AUTOMOTIVE PRODUCTS, INC.
 FORMERLY
 MOOG AUTOMOTIVE, INC.
 SUCCESSOR BY MERGER TO
 WAGNER ELECTRIC CORPORATION
 (D.B. 268, PG. 849)
 (INSTR. *010000561)
 (INSTR. *010000562)
 (INSTR. *010000563)
 3,940 AC.
 (2416 PAPERMILL RD.)

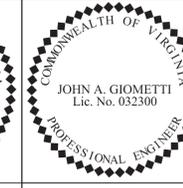
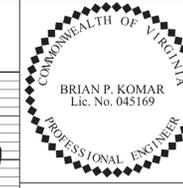
034
 TAX MAP 291-2 - C -
 GLAIZE DEVELOPMENTS,
 INCORPORATED
 (D.B. 195, PG. 496) (FREDERICK COUNTY)
 0.0271 AC.
 (NO PROP. ADDRESS)

026
 TAX MAP 291-3 - I -
 SILVER LAKE LLC
 (INSTR. *960002934)
 5,0760 AC.
 (2508 PAPERMILL RD.)

Roadway Design Legend		Drainage Legend	
1	Denotes 5' Concrete Sidewalk Req'd.	1	Denotes To be Abandoned
2B	Denotes S'd. CG-12 Req'd. (Type in Label)	2	Denotes To be Removed
3	Denotes S'd. CG-6 Req'd.	3	Denotes Pipes to be Cleaned
4	Not used	R/W Legend	
5	Not Used	- - -	Denotes S'd. Variable Width Temp. Ease.
6	Denotes Brick Median w/ CG-2 Req'd.	- - -	Denotes S'd. Variable Width Perm. Ease.
7	Denotes S'd. MS-2 w/ CG-2 Req'd.	1	Denotes Contractor Not to Disturb
8	Denotes 8' Shared Use Path Req'd.		
9	Denotes 10' Shared Use Path Req'd.		
10B	Denotes Mod. CG-12 Req'd. (Type in Label) (No Detectable Warning Trunc. Domes)		
11	Denotes 6' Concrete Sidewalk Req'd.		
12	Denotes 4' Concrete Sidewalk Req'd.		
C	Denotes Construction Limits in Cuts		
F	Denotes Construction Limits in Fills		
[Pattern]	Denotes Full Depth Pave.		
[Pattern]	Denotes Mill and Overlay/Bulldup		
[Pattern]	Denotes Demo. of Pavement		



PROJECT MANAGER *Becry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014



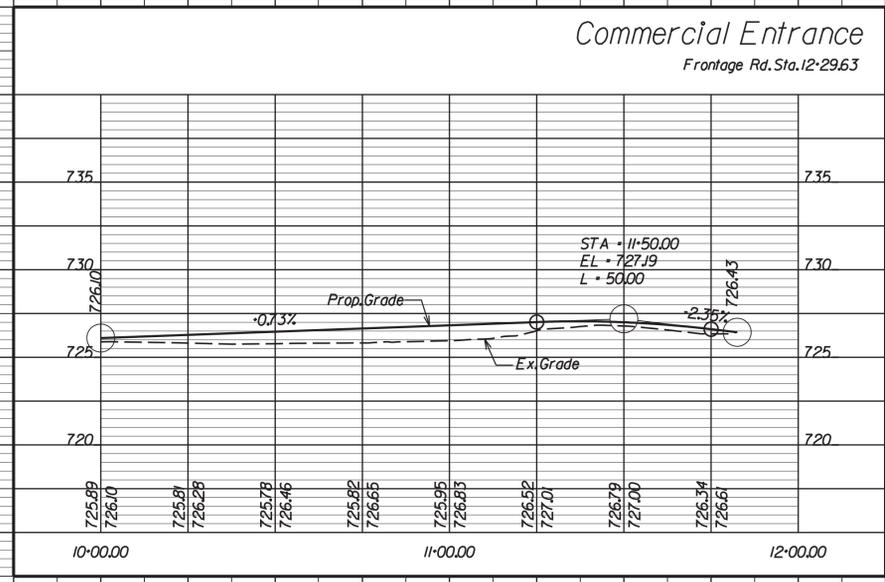
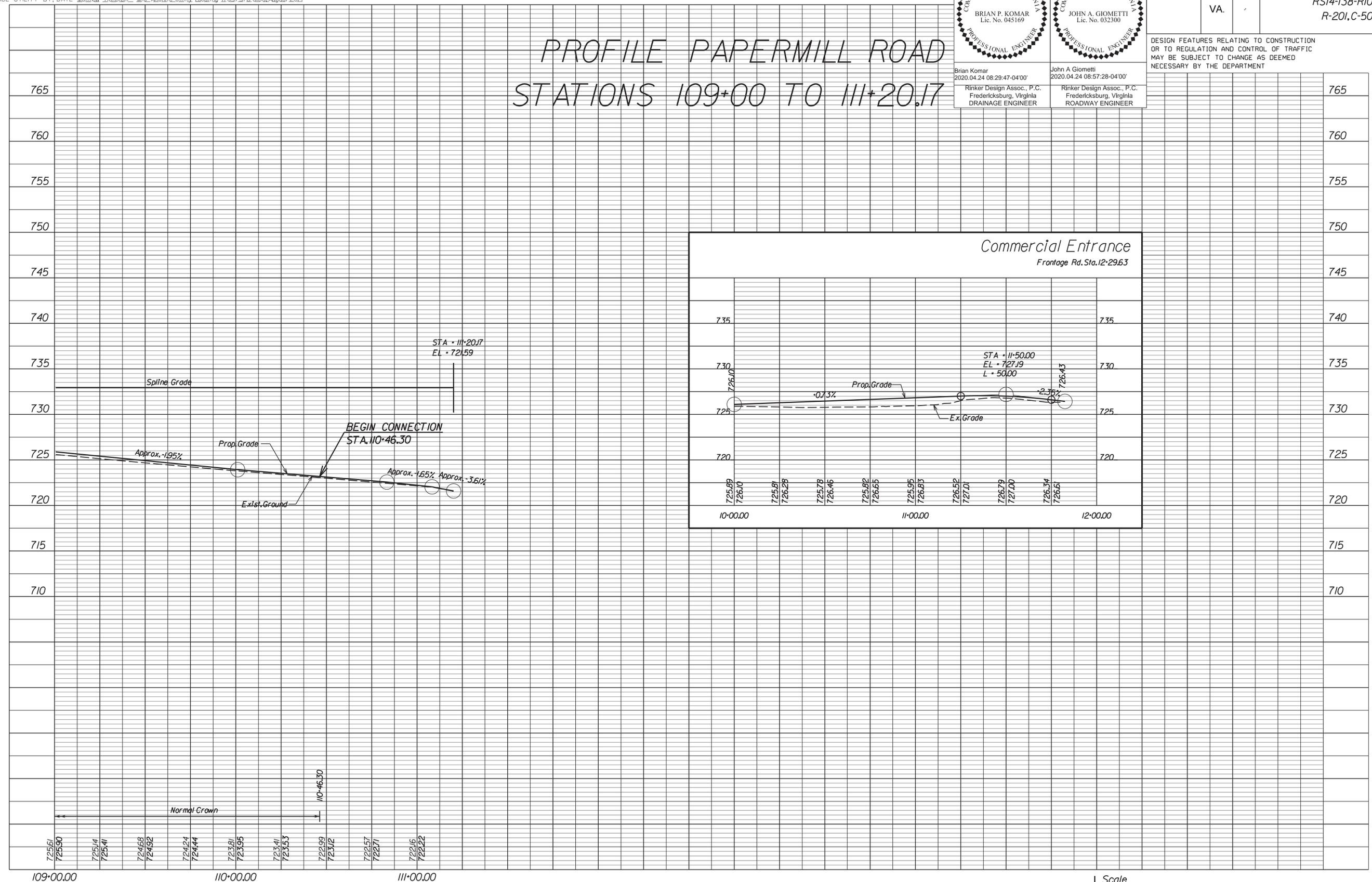
Brian Komar
2020.04.24 08:29:47-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A Giometti
2020.04.24 08:57:28-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED 07-24-2019 11-08-2019	STATE VA.	ROUTE	STATE PROJECT RS14-138-R10- R-201,C-501	SHEET NO. 10A
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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

PROFILE PAPERMILL ROAD STATIONS 109+00 TO 111+20.17



Rinker
 Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Stormwater Management - Right of Way Services
 Office Locations: Fredericksburg, VA; Charlottesville, VA; Leesville, VA; Norfolk, VA; Richmond, VA; Roanoke, VA; Staunton, VA; Winchester, VA; York, VA

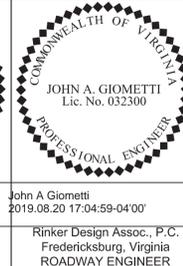
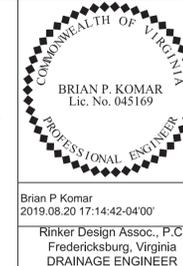
Scale
2.5' / 25'

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY DATE Matthew Ranslem, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

031 TAX MAP 311-I - 20-
SCHOOL BOARD OF THE
CITY OF WINCHESTER
(D.B. 221, PG. 371)
17,2520 AC.
(100 W CEDERMEADE AVE.)

REVISION	STATE	ROUTE	PROJECT	SHEET NO.
02-21-2018	VA.		RS14-138-R10- R-201,C-501	11
08-22-2018				
10-17-2018				
11-06-2018				
03-11-2019				
03-22-2019				

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



Curve TEVISCUL2-C2
PI = 11-41.54
DELTA = 124° 25' 06.18" (LT)
D = 119' 21' 58"
T = 91.08'
L = 104.23'
R = 48.00'
PC = 10-50.47
PT = 11-54.70

Curve TEVISCUL2-C3
PI = 12-70.17
DELTA = 134° 51' 24.60" (LT)
D = 119' 21' 58"
T = 115.47'
L = 112.98'
R = 48.00'
PC = 11-54.70
PT = 12-67.68

Roadway Design Legend

- 1 - Denotes 5' Concrete Sidewalk Req'd.
- 2B - Denotes S'd. CG-12 Req'd. (Type In Label)
- 3 - Denotes S'd. CG-6 Req'd.
- 4 - Not used
- 5 - Not Used
- 6 - Denotes Full Depth Pave.
- 7 - Denotes Mill and Overlay/Buildup
- 8 - Denotes Demo. of Pavement
- 9 - Denotes Brick Median w/ CG-2 Req'd.
- 10 - Denotes S'd. MS-2 w/ CG-2 Req'd.
- 11 - Denotes 8' Shared Use Path Req'd.
- 12 - Denotes 10' Shared Use Path Req'd.
- 13 - Denotes Mod. CG-12 Req'd. (Type In Label) (No Detectable Warning Trunc. Domes)
- 14 - Denotes 6' Concrete Sidewalk Req'd.
- 15 - Denotes 4' Concrete Sidewalk Req'd.
- C - Denotes Construction Limits In Cuts
- F - Denotes Construction Limits In Fills

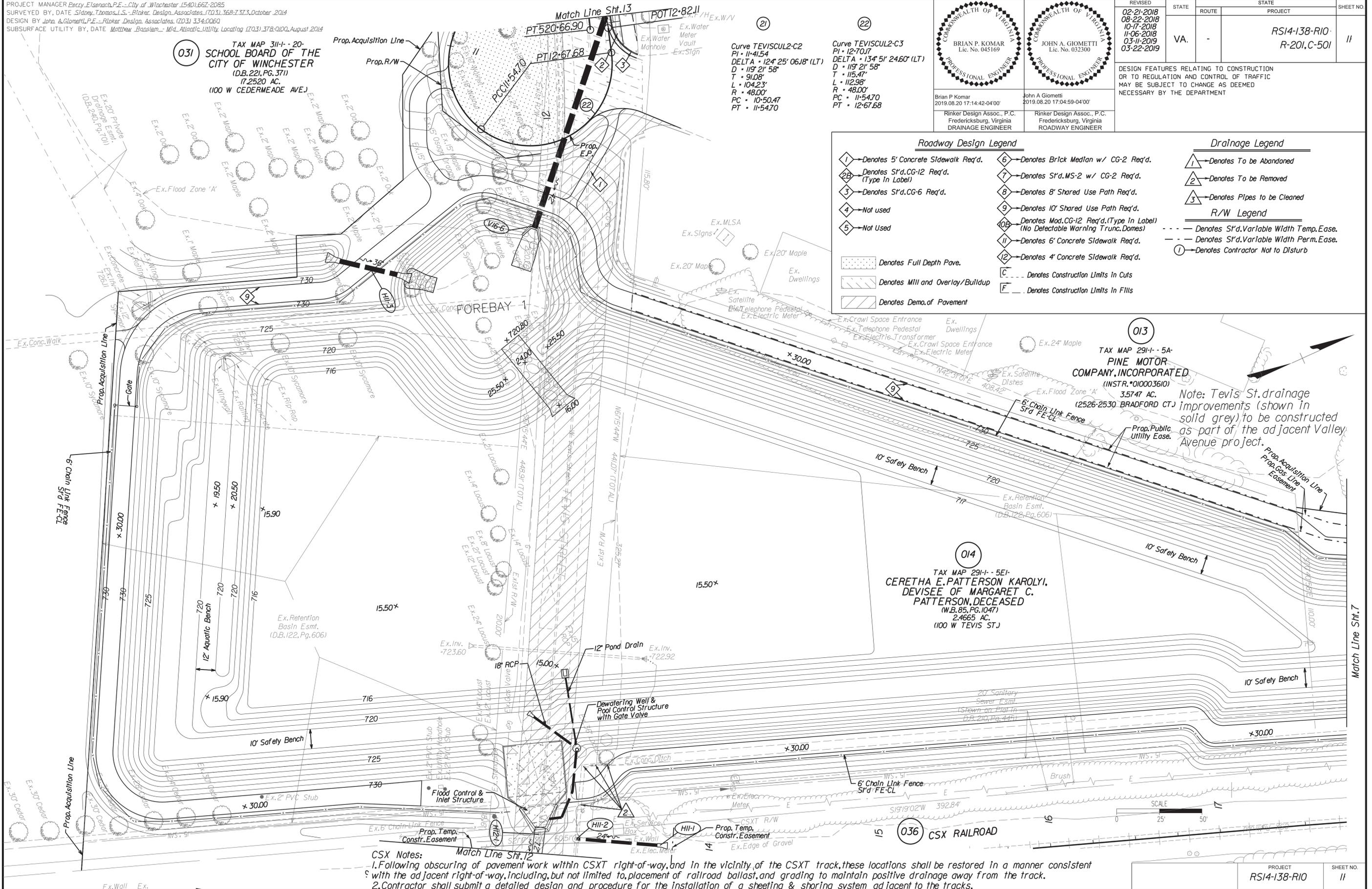
Drainage Legend

- 1 - Denotes To be Abandoned
- 2 - Denotes To be Removed
- 3 - Denotes Pipes to be Cleaned

R/W Legend

- - - Denotes S'd. Variable Width Temp. Ease.
- - - Denotes S'd. Variable Width Perm. Ease.
- 1 - Denotes Contractor Not to Disturb

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013 TAX MAP 291-I - 5A-
PINE MOTOR
COMPANY, INCORPORATED
(INSTR. 010003610)
3,5747 AC.
(2526-2530 BRADFORD CT.)

Note: Tevis St. drainage improvements (shown in solid grey) to be constructed as part of the adjacent Valley Avenue project.

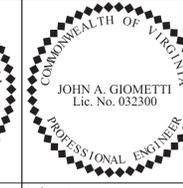
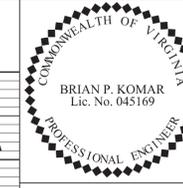
014 TAX MAP 291-I - 5E1-
CERETHA E. PATTERSON KAROLYI,
DEVISEE OF MARGARET C.
PATTERSON, DECEASED
(W.B. 85, PG. 1047)
2,4665 AC.
(100 W TEVIS ST.)

CSX Notes:
1. Following obscuring of pavement work within CSXT right-of-way, and in the vicinity of the CSXT track, these locations shall be restored in a manner consistent with the adjacent right-of-way, including, but not limited to, placement of railroad ballast, and grading to maintain positive drainage away from the track.
2. Contractor shall submit a detailed design and procedure for the installation of a sheeting & shoring system adjacent to the tracks.



PROJECT	SHEET NO.
RS14-138-R10	11

PROJECT MANAGER *Ecory, Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014



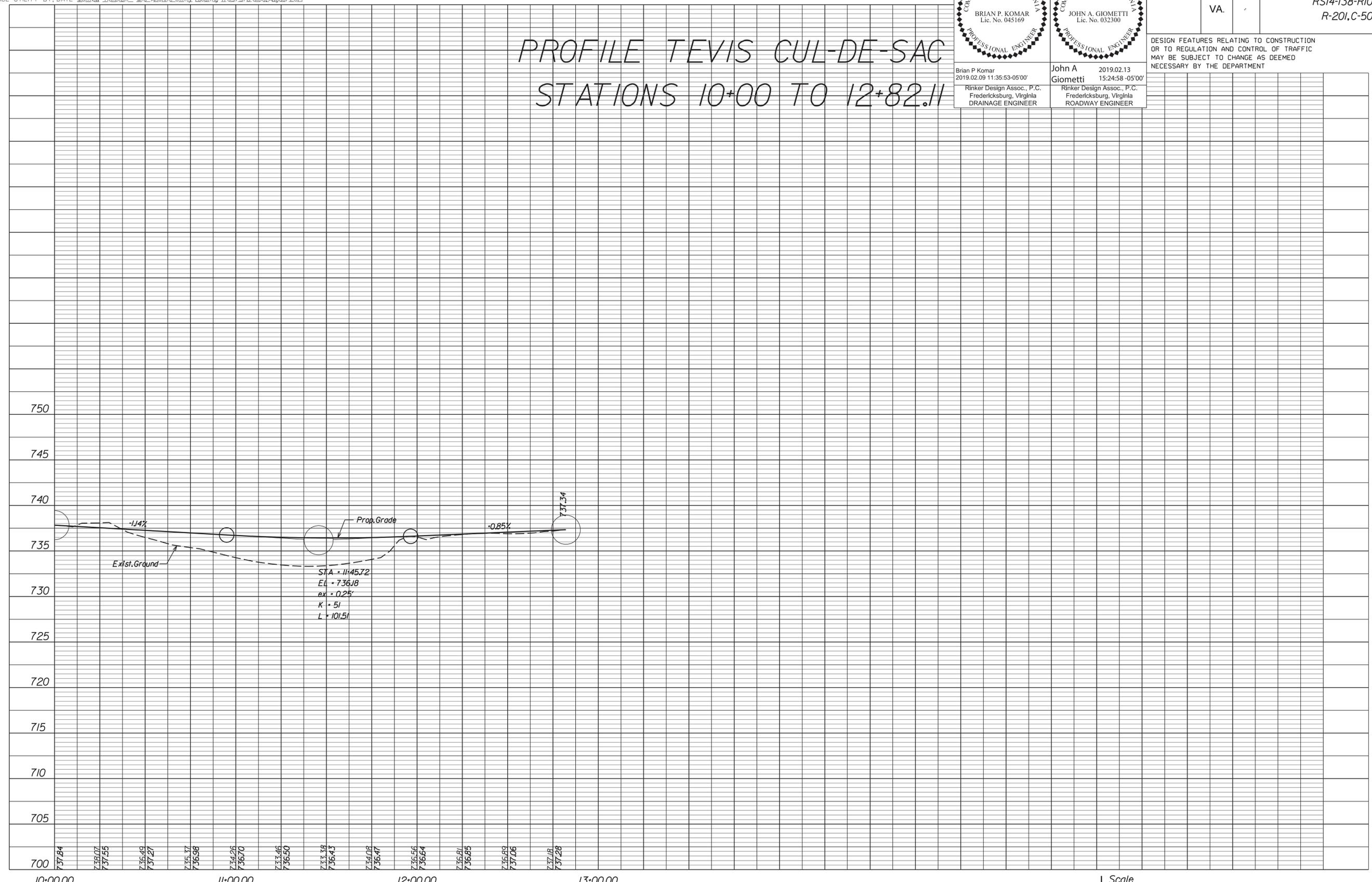
Brian P Komar
2019.02.09 11:35:53-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A Giometti
2019.02.13 15:24:58 -05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201,C-501	11A

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

PROFILE TEVIS CUL-DE-SAC STATIONS 10+00 TO 12+82.11



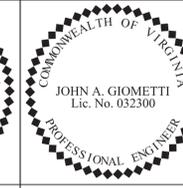
Grda Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Right of Way Services
 Office Locations: Winchester, VA; Fredericksburg, VA; Alexandria, VA; Falls Church, VA; Fairfax, VA; Herndon, VA; Reston, VA; Tyngsboro, VA; Warrenton, OR; Washington, DC; York, VA

Scale
2.5' = 25'

PROJECT MANAGER *Ecory, Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

CSX Railroad Crossing Detail

Tevis Street



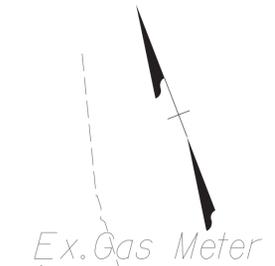
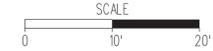
Brian Komar
2020.04.24 08:28:54-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

John A. Giometti
2020.04.24 08:56:45-04'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

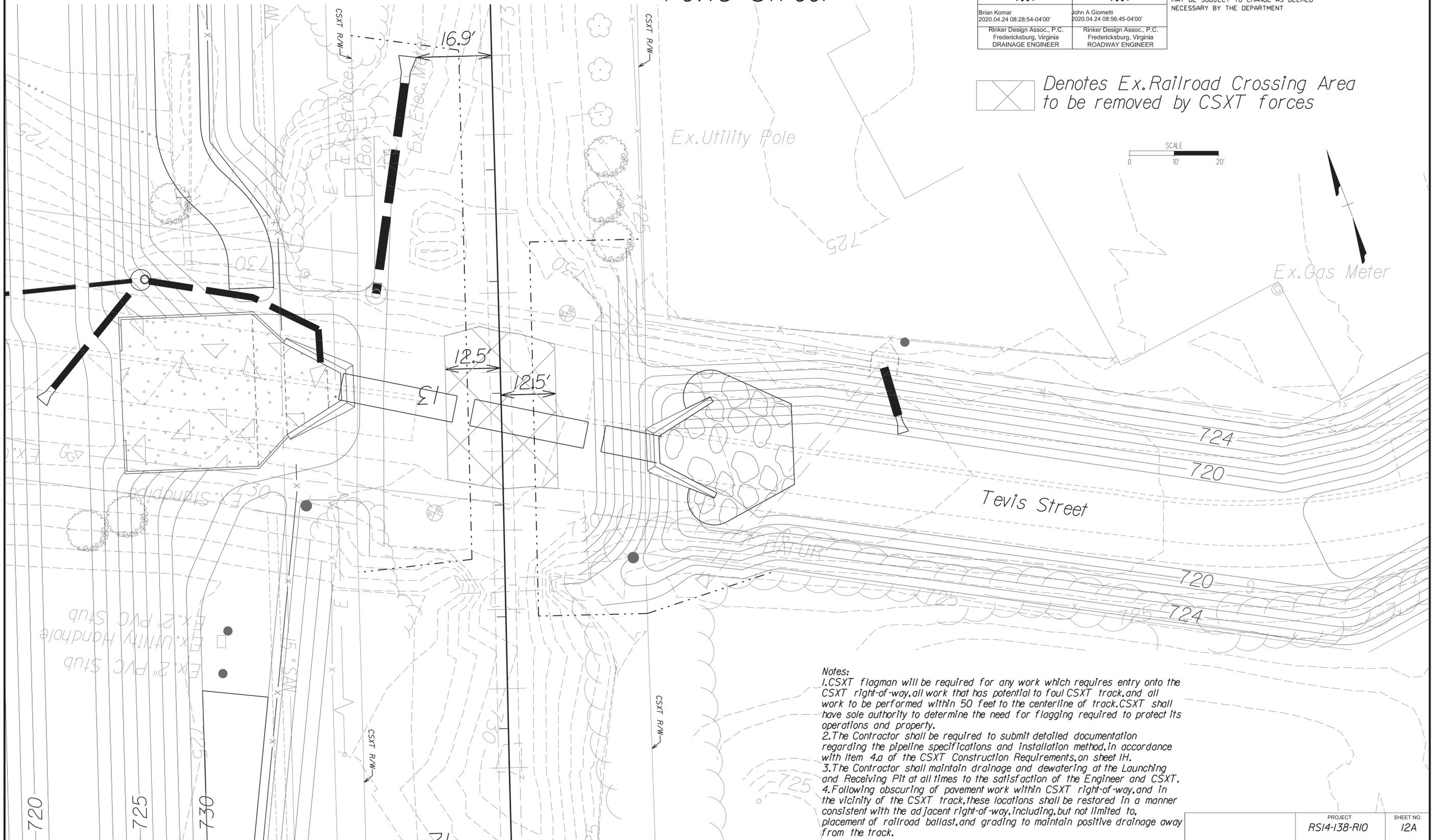
REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	-	RS14-138-R10- R-201,C-501	12A

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

Denotes Ex. Railroad Crossing Area to be removed by CSXT forces



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- Notes:**
1. CSXT flagman will be required for any work which requires entry onto the CSXT right-of-way, all work that has potential to foul CSXT track, and all work to be performed within 50 feet to the centerline of track. CSXT shall have sole authority to determine the need for flagging required to protect its operations and property.
 2. The Contractor shall be required to submit detailed documentation regarding the pipeline specifications and installation method, in accordance with Item 4.a of the CSXT Construction Requirements, on sheet 1H.
 3. The Contractor shall maintain drainage and dewatering at the Launching and Receiving Pit at all times to the satisfaction of the Engineer and CSXT.
 4. Following obscuring of pavement work within CSXT right-of-way, and in the vicinity of the CSXT track, these locations shall be restored in a manner consistent with the adjacent right-of-way, including, but not limited to, placement of railroad ballast, and grading to maintain positive drainage away from the track.

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslam, M.D.* - *Atlantic Utility Locating* (703) 378-0100, August 2014

Roadway Design Legend

- 1 - Denotes 5' Concrete Sidewalk Req'd.
- 2B - Denotes S'd, CG-12 Req'd. (Type In Label)
- 3 - Denotes S'd, CG-6 Req'd.
- 4 - Not used
- 5 - Not Used
- 6 - Denotes Demo. of Pave.
- 7 - Denotes Full Depth Pave.
- 8 - Denotes Mill and Overlay/Buildup
- 9 - Denotes Obscuring of Pavement
- 6 - Denotes Brick Median w/ CG-2 Req'd.
- 7 - Denotes S'd, MS-2 w/ CG-2 Req'd.
- 8 - Denotes 8' Shared Use Path Req'd.
- 9 - Denotes 10' Shared Use Path Req'd.
- 10B - Denotes Mod. CG-12 Req'd. (Type In Label) (No Detectable Warning Trunc. Domes)
- 11 - Denotes 6' Concrete Sidewalk Req'd.
- 12 - Denotes 4' Concrete Sidewalk Req'd.
- C - Denotes Construction Limits In Cuts
- F - Denotes Construction Limits In Fills

Drainage Legend

- 1 - Denotes To be Abandoned
- 2 - Denotes To be Removed
- 3 - Denotes Pipes to be Cleaned

R/W Legend

- - - Denotes S'd, Variable Width Temp. Ease.
- - - Denotes S'd, Variable Width Perm. Ease.
- ⓪ - Denotes Contractor Not to Disturb

COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

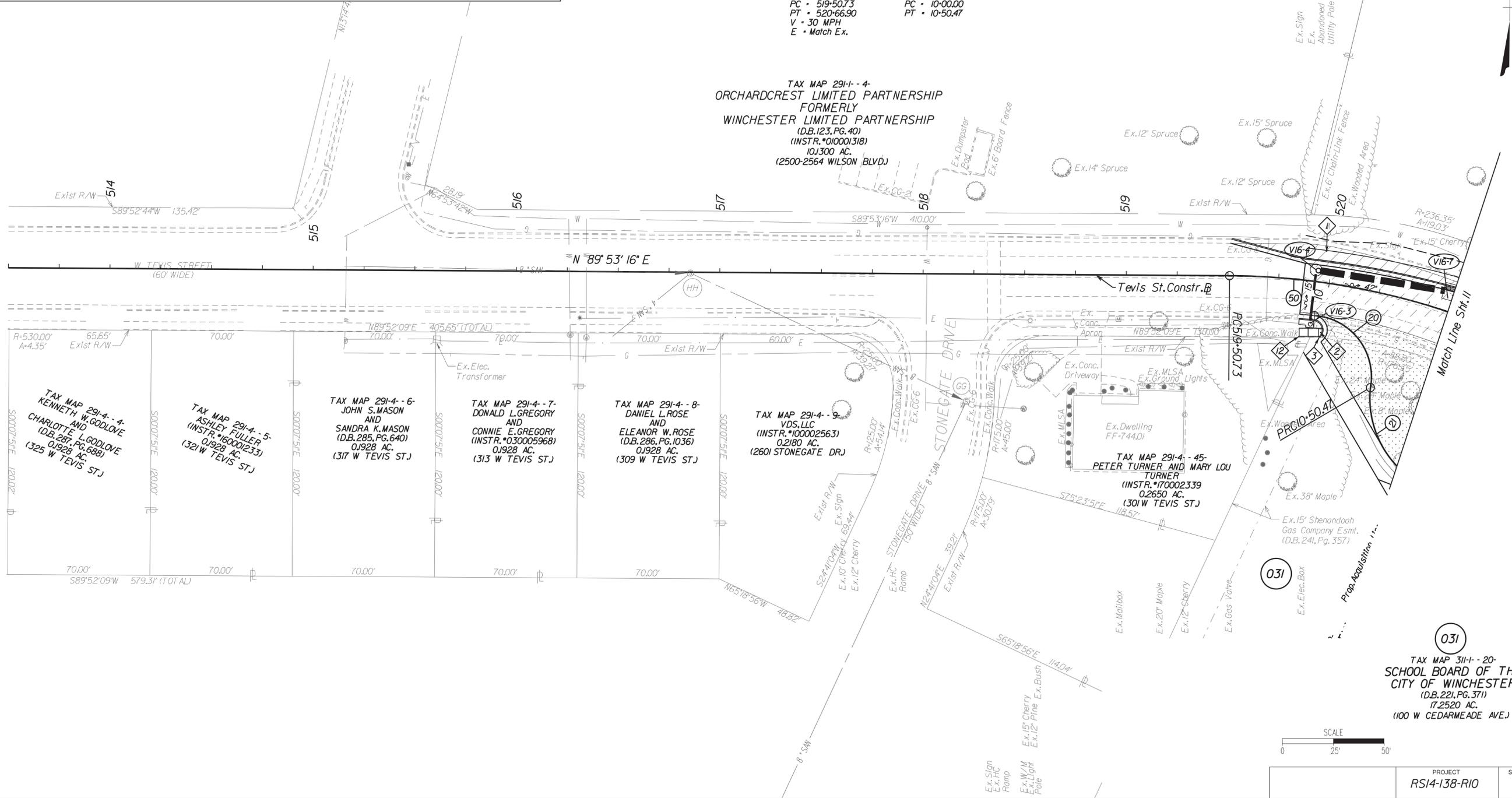
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	13

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

50 Curve TEVIS-C5
 PI = 520-09.35
 DELTA = 19° 01' 01.66" (RT)
 D = 16' 22' 13"
 T = 58.62'
 L = 116.7'
 R = 350.00'
 PC = 519-50.73
 PT = 520-66.90
 V = 30 MPH
 E = Match Ex.

20 Curve TEVIS-CUL2-C1
 PI = 10-33.54
 DELTA = 96° 23' 09.56" (RT)
 D = 190' 59' 09"
 T = 33.54'
 L = 50.47'
 R = 30.00'
 PC = 10-00.00
 PT = 10-50.47

TAX MAP 291-1-4-
 ORCHARDCREST LIMITED PARTNERSHIP
 FORMERLY
 WINCHESTER LIMITED PARTNERSHIP
 (D.B. 123, PG. 40)
 (INSTR. *010001318)
 10.300 AC.
 (2500-2564 WILSON BLVD.)

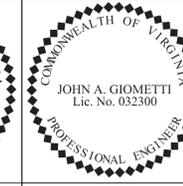
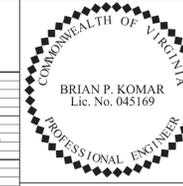


031 TAX MAP 311-1-20-
 SCHOOL BOARD OF THE
 CITY OF WINCHESTER
 (D.B. 221, PG. 371)
 17,250 AC.
 (100 W CEDARMEADE AVE.)

PROJECT	RS14-138-R10	SHEET NO.	13
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Office Locations: **Rinker Design Associates, P.C.**
 Charlottesville, VA
 Fairfax, VA
 Fredericksburg, VA
 Herndon, VA
 Leesville, VA
 Norfolk, VA
 Quantico, VA
 Reston, VA
 Richmond, VA
 Springfield, VA
 Stafford, VA
 Warrenton, OR
 Washington, DC
 Winchester, VA
 York, VA

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Ranslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014



Brian P Komar
2019.02.09 11:34:28-05'00"
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

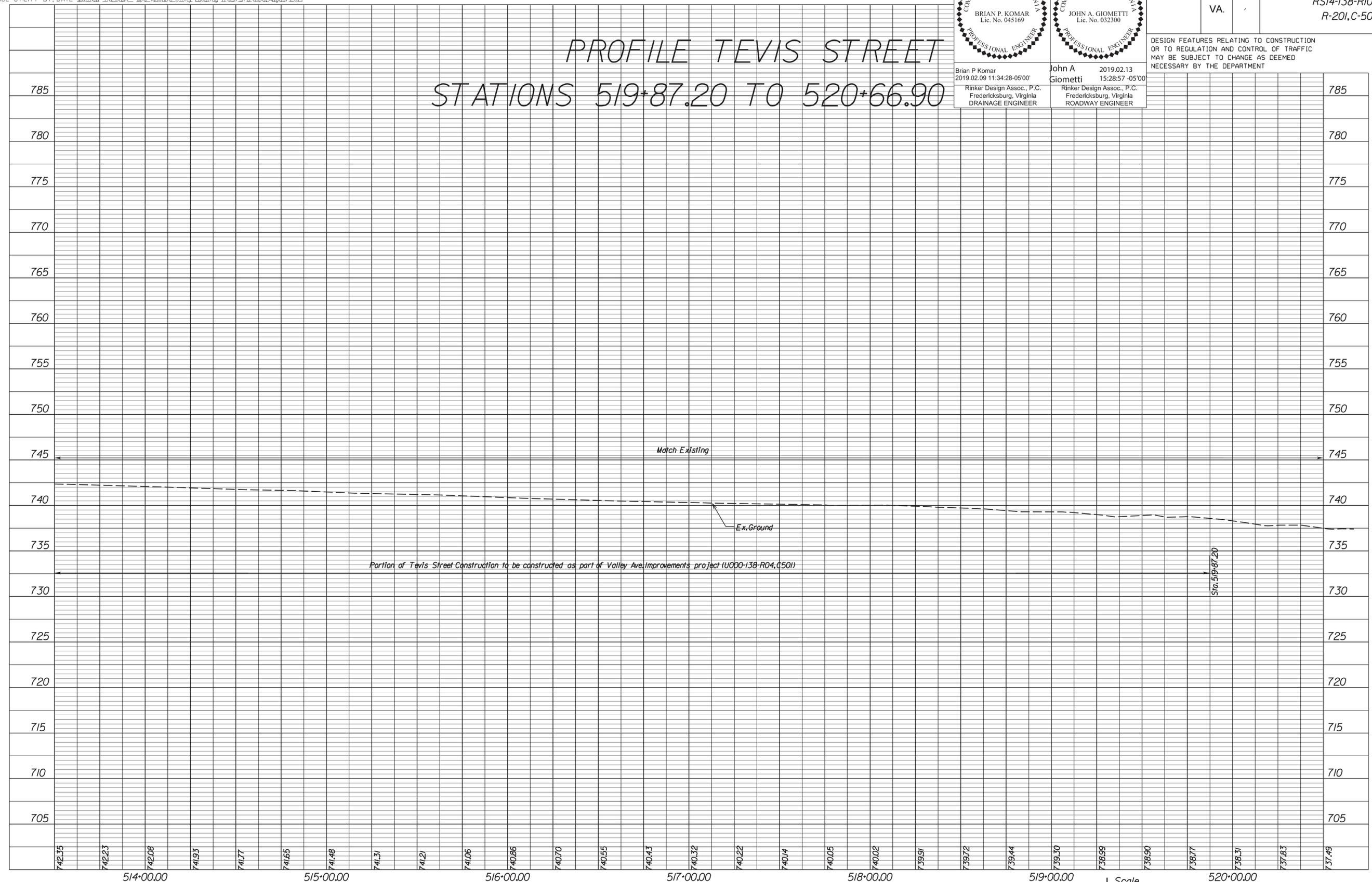
John A Giometti
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Rinker Design Assoc., P.C.
Fredericksburg, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10-R-201,C-501	13A

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

PROFILE TEVIS STREET

STATIONS 519+87.20 TO 520+66.90



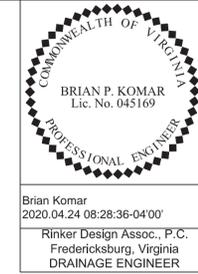
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Scale
2.5' = 25'

PROJECT MANAGER Perry, Eisenach, P.E., City of Winchester (1540), 66Z-2085
SURVEYED BY, DATE Sidney, Thomas, L.S., Rinker Design Associates, (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E., Rinker Design Associates, (703) 334-0060
SUBSURFACE UTILITY BY, DATE Matthew Braslem, M.D., Atlantic Utility Location (703) 378-0100, August 2014

Office Locations
Rinker Design Associates, P.C.
10000 Westpark Drive, Suite 1000
Westpark, VA 22190
703-334-0060
www.rinker.com

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



Brian Komar
2020.04.24 08:28:36-04'00'
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	16(1)

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

- H6-10 H6-9 32' - 18" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 726J7, INV.(OUT) - 726D1
- H6-9 1 STD HANSON SHALLOW MH STR W/ DI-2F TOP
L-8', H-4.7' INV. - 725.91
STD IS-1 REQ'D
- H6-9 H6-1 27' - 36" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 725.91, INV.(OUT) - 725J4
18 TONS MATERIAL AGGREGATE *25 OR *26
- H6-1 1-STD. HANSON SHALLOW MH STR. W/ DI-2F TOP
L-10', H-4.3', INV. - 725.64
STD IS-1 REQ'D
- H6-1 H6-11 80' - 36" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 725.64, INV.(OUT) - 725.30
41 TONS MATERIAL AGGREGATE *25 OR *26
- H6-2 1 STD. DI-2B REQ'D
L-4', H-4.2' INV. - 725.98
- H6-2 H6-1 48' - 15" STORM SEWER PIPE
REQ'D (2' COVER)
INV.(IN) - 725.98, INV.(OUT) - 725J4
- H6-11 1-STD. HANSON SHALLOW MH STR. W/ DI-2E TOP
L-6', H-5.5', INV. - 724.58
STD IS-1 REQ'D
- H6-11 H6-14 89' - 54" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 724.58, INV.(OUT) - 724.31
188 CY MINOR EXCAVATION REQ'D.
70 TONS MATERIAL AGGREGATE *25 OR *26
- H6-14 1 STD. DI-2E REQ'D
L-6', H-6.6', INV. - 724.21
STD IS-1 REQ'D
- H6-17 1-MODIFIED JB-1 REQ'D
INV. - 725.70
H-5.3', W-4', D-9'-4"
TYPE C TOWER REQ'D
1 STD. MH-1 FRAME & COVER REQ'D
STD. SL-1 REQ'D
INV IN - 726J0 (FROM PROP. 10' 68"x43"
ELLIPTICAL PIPE - CONNECT TO EX.
68"x43" ELLIPTICAL PIPE)
- H6-17 H6-11 81' - 68" x 43" ELLIPTICAL STORM SEWER
PIPE REQ'D (2' COVER)
INV.(IN) - 725.70, INV.(OUT) - 725.30
170 CY MINOR EXCAVATION REQ'D.
112 TONS MATERIAL AGGREGATE *25 OR *26
- H6-13 1 STD. DI-2B REQ'D
L-8', H-5.6' INV. - 725.72
- H6-13 H6-14 35' - 15" STORM SEWER PIPE REQ'D (4' COVER)
INV.(IN) - 725.72, INV.(OUT) - 724.68
- H6-14 H6-19 265' - 54" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 724.21, INV.(OUT) - 723.39
558 CY MINOR EXCAVATION REQ'D.
207 TONS MATERIAL AGGREGATE *25 OR *26
- H6-19 1 STD. DI-2E REQ'D
L-10', H-7.5' INV. - 723.29
STD IS-1 REQ'D
- H6-20 1 STD. DI-2B REQ'D
L-8', H-6.7' INV. - 724J6
- H6-20 H6-19 31' - 15" STORM SEWER PIPE REQ'D (7' COVER)
INV.(IN) - 724J6, INV.(OUT) - 723.39
- H6-19 H7-3 152' - 54" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 723.29, INV.(OUT) - 722.61
320 CY MINOR EXCAVATION REQ'D.
119 TONS MATERIAL AGGREGATE *25 OR *26
- Sheet 7
- H7-3 1 STD. DI-2E REQ'D
L-6', H-7.7' INV. - 722.51
STD IS-1 REQ'D
- H7-11 1-DI-2C REQ'D
L-6', H-4.8', INV. - 723.95
- H7-11 H7-2 82' - 15" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 723.95, INV.(OUT) - 723J7

- H7-10 1-DI-2B REQ'D
L-4', H-3.8', INV. - 725.24
- H7-10 H7-11 62' - 15" STORM SEWER PIPE REQ'D (15' COVER)
INV.(IN) - 725.24, INV.(OUT) - 724.05
- H7-9 1-DI-2B REQ'D
L-4', H-3.8', INV. - 725.24
- H7-9 H7-5 48' - 15" STORM SEWER PIPE REQ'D (15' COVER)
INV.(IN) - 725.24, INV.(OUT) - 724.77
- H7-5 1-DI-2C REQ'D
L-6', H-4.2', INV. - 724.67
- H7-5 H7-11 37' - 15" STORM SEWER PIPE REQ'D (15' COVER)
INV.(IN) - 724.67, INV.(OUT) - 724.05
- H7-17 1 STD 18' ES-1
INV. - 725.00
- H7-17 H7-2 25' - 15" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 725.00, INV.(OUT) - 723J7
- H7-2 1 STD. DI-2E REQ'D
L-10', H-6.4' INV. - 723.07
STD IS-1 REQ'D
- H7-2 H7-3 28' - 18" STORM SEWER PIPE REQ'D (15' COVER)
INV.(IN) - 723.07, INV.(OUT) - 722.61
- H7-3 H7-7 119' - 54" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 722.51, INV.(OUT) - 721.97
251 CY MINOR EXCAVATION REQ'D.
33 TONS MATERIAL AGGREGATE *25 OR *26
- H7-8 1 HANSON SHALLOW MH STR. WITH DI-1 TOP
H-2.7', INV. - 722.83
- H7-8 H7-6 27' - 24" STORM SEWER PIPE REQ'D (4' COVER)
INV.(IN) - 722.83, INV.(OUT) - 722.56
- H7-6 1 STD. DI-2B REQ'D
L-6', H-6.1' INV. - 722.66
- H7-6 H7-7 46' - 24" STORM SEWER PIPE REQ'D (15' COVER)
INV.(IN) - 722.46, INV.(OUT) - 721.97
- H7-7 1 STD. DI-2E REQ'D
L-6', H-7.0' INV. - 721.87
STD IS-1 REQ'D
- H7-7 H7-4 42' - 54" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 721.87, INV.(OUT) - 721.69
89 CY MINOR EXCAVATION REQ'D.
33 TONS MATERIAL AGGREGATE *25 OR *26
- H7-4 1-STD. 54" - EW-2 REQ'D
Inv. - 721.69
40 TONS ST'D EC-1 CLASS I, TYPE B INSTALLATION
- H7-18 HANSON SHALLOW MH STR. W/ DI-1 TOP REQ'D
H-2.3', INV. - 722.90
- H7-18 H7-20 34' - 15" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 722.90, INV.(OUT) - 722.77
- H7-20 1 MODIFIED DI-1 (SHALLOW) SD-5
L-8.28', H-3.3', 3 GRATES, INV. - 722.67
STD IS-1 REQ'D
- H7-20 H7-21 81' - 15" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 722.67, INV.(OUT) - 722.26
- H7-31 HANSON SHALLOW MH STR. W/ DI-1 TOP
H-2.6', INV. - 722.68
- H7-31 H7-21 20' - 15" STORM SEWER PIPE REQ'D (1' COVER)
INV.(IN) - 722.68, INV.(OUT) - 722.26
- H7-21 1 STD. DI-3B REQ'D
L-4', H-4.7' INV. - 722J6
STD IS-1 REQ'D
- H7-21 H7-25 170' - 18" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 722J6, INV.(OUT) - 721.42

- H7-25 1 STD. DI-3B REQ'D
L-4', H-5.0' INV. - 721.32
STD IS-1 REQ'D
- H7-25 H7-23 163' - 18" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 721.32, INV.(OUT) - 720.50
- H7-22 1 STD. DI-3B REQ'D
L-4', H-3.9' INV. - 720.86
- H7-22 H7-23 45' - 15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 720.86, INV.(OUT) - 720.50
- H7-23 1 STD. DI-3B REQ'D
L-10', H-4.4', INV. - 720.40
STD IS-1 REQ'D
- H7-23 H8-2 202' - 24" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 720.40, INV.(OUT) - 719.40
- H7-26 1 STD. DI-7, TYPE III GRATE REQ'D
L-10', H-5.1', INV. - 721.39
- H7-26 H7-1 38' - 30" STORM SEWER PIPE REQ'D (16' COVER)
INV.(IN) 721.39 INV.(OUT) 721.01
- H7-1 1 STD. 30" ES-1 REQ'D
5 Tons EC-1 Class A1 Req'd, Type A Installation
- Sheet 8
- H8-2 1 STD. DI-3B REQ'D
L-6', H-5.5' INV. - 719.30
STD IS-1 REQ'D
- H8-2 H8-1 42' - 24" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 719.30, INV.(OUT) - 719.09
- H8-1 1 STD. DI-3B REQ'D
L-4', H-4.9' INV. - 718.99
STD IS-1 REQ'D
- H8-1 H8-9 88' - 24" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 718.99, INV.(OUT) - 718.55
- H8-9 1 MODIFIED DI-1 (SHALLOW) SD-5
L-5.52', H-4.3', 2 GRATES, INV. - 718.45
- H8-9 H8-8 60' - 24" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 718.45, INV.(OUT) - 717.98
- H8-8 1 MODIFIED DI-1 (SHALLOW) SD-5
L-5.52', H-4.2', 2 GRATES, INV. - 717.88
- H8-8 H8-11 48' - 24" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 717.88, INV.(OUT) - 717.40
- H8-11 EX H100 (ADJUST EXISTING DI)
EX. TOP ELEV. - 721.33
PROP. TOP ELEV - 721J2
ADJUST TO GRADE, LOWER 0.21'
ADD 1 STD. DI-3B, L-8'
EX. INV.(IN) - 717.40
EX. INV.(OUT) - 717.36(30" RCP)
PROP. INV.(IN) - 717.40
- H8-12 EX H98 (EXISTING DI) (MODIFY TO ACCEPT PROP.
30" STORM SEWER PIPE)
EX. TOP ELEV. - 721.33
PROP. TOP ELEV - 721.40
ADJUST TO GRADE, RAISE 0.07'
EX. INV.(IN) - 717.03
EX. INV.(OUT) - 716.78(34"x53" RCP)
PROP. INV.(OUT) - 716.78
- H8-12 H8-3 24' - 30" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 716.78, INV.(OUT) - 716.50
- H8-3 1 STD 30" ES-1
INV. - 716.50
4 TONS ST'D EC-1 CLASS I, TYPE A INSTALLATION
- H8-10 1 STD. DI-3B REQ'D
L-12', H-6.3' INV. - 718.31

- H8-10 H8-7 16' - 15" STORM SEWER PIPE REQ'D (4' COVER)
INV.(IN) - 718.31, INV.(OUT) - 718.00
Sheet 9
- H9-6 1 STD. DI-2B REQ'D
L-4', H-4.8' INV. - 724.03
- H9-6 H9-5 166' - 15" STORM SEWER PIPE REQ'D (2' COVER)
INV.(IN) - 724.03, INV.(OUT) - 723.20
- H9-5 1 MODIFIED DI-1 (SHALLOW) SD-5
L-11.04', H-3.8', 4 GRATES, INV. - 722.65
- H9-5 H9-4 48' - 18" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 722.65, INV.(OUT) - 722.35
- H9-13 HANSON SHALLOW MH STR. W/ DI-1 TOP
H-2.4', INV. - 722.84
- H9-13 H9-5 18' - 15" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) - 722.84, INV.(OUT) - 722.75
- H9-2 1 STD. DI-2B REQ'D
L-4', H-4.2' INV. - 723J2
- H9-2 H9-3 54' - 15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 723J2, INV.(OUT) - 722.90
- H9-3 1 STD. DI-2C REQ'D
L-6', H-4.1' INV. - 722.80
- H9-3 H9-1 44' - 15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 722.80, INV.(OUT) - 722.62
- H9-1 1 STD. DI-2B REQ'D
L-6', H-4.3' INV. - 722.52
STD IS-1 REQ'D
- H9-1 H9-4 36' - 15" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 722.52, INV.(OUT) - 722.35
- H9-4 1- STD DI-1 REQ'D
H-3.9', INV. - 722.25
STD IS-1 REQ'D
- H9-4 H9-7 35' - 24" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 722.25, INV.(OUT) - 722.11
- H9-15 1 STD. DI-2B REQ'D
L-8', H-3.8' INV. - 722.21
- H9-15 H9-7 15' - 15" STORM SEWER PIPE REQ'D (4' COVER)
INV.(IN) - 722.21, INV.(OUT) - 722.04
- H9-7 1 STD. DI-2B REQ'D
L-8', H-5.1' INV. - 722.01
- H9-7 H9-10 132' - 24" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) - 722.01, INV.(OUT) - 721.50
- H9-8 1 STD. DI-3B REQ'D
L-8', H-6.1' INV. - 722.29
- H9-8 H9-9 32' - 15" STORM SEWER PIPE REQ'D (5' COVER)
INV.(IN) - 722.29, INV.(OUT) - 722J2
- H9-9 1 STD. DI-3B REQ'D
L-8', H-6.0' INV. - 722.02
STD IS-1 REQ'D

PROJECT	SHEET NO.
RS14-138-R10	16(1)

PROJECT MANAGER *Ecory Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

Drainage Descriptions

Brian P. Komar
2019.08.20 17:16:06-0400
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	16(2)

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

GEOTECHNICAL BEDDING REQUIREMENTS
(PER VALLEY AVENUE GEOTECHNICAL REPORT DATED MARCH 21, 2018)

(A) NO SPECIAL RECOMMENDATIONS ARE NEEDED AT THIS LOCATION. THE BEDDING SHOULD BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF VDOT STANDARD DETAIL PB-1 AND THE APPLICABLE SECTIONS OF VDOT ROAD AND BRIDGE SPECIFICATIONS. ANY UNSUITABLE SUBGRADE SOILS FOUND DURING CONSTRUCTION MUST BE UNDERCUT AND REPLACED WITH COMPACTED VDOT NO. 25 OR 26 BEDDING MATERIALS IN ACCORDANCE WITH THE VDOT DRAINAGE PIPE AND CULVERT BACKFILLING STANDARDS.

(B) EXCAVATION OF WEATHERED ROCK, BOULDER OR UNWEATHERED BED ROCK WILL BE REQUIRED TO ACHIEVE DESIGN INVERT ELEVATION. THE ROCK SHOULD BE UNDERCUT BELOW THE PIPE INVERT A DEPTH OF 1/2' PER FOOT OF DEPTH AS MEASURED FROM FINISHED GRADE TO THE TOP OF THE PIPE, WITH A MINIMUM DEPTH OF 8' AND MAXIMUM DEPTH OF 24'. THE BEDDING SHOULD BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF VDOTS STANDARD DETAIL PB-1 AND THE APPLICABLE SECTIONS OF VDOT ROAD AND BRIDGE SPECIFICATIONS.

(C) UNDERCUTTING OF SOFT SUBGRADE SOILS BELOW THE PROPOSED INVERT ELEVATION IS ANTICIPATED. THE UNDERCUT SHOULD BE REPLACED WITH COMPACTED VDOT NO. 25 OR 26 BEDDING MATERIALS IN ACCORDANCE WITH THE VDOT DRAINAGE PIPE AND CULVERT BACKFILLING STANDARDS.

(GENERAL) THE ESTIMATED MINIMUM UNDERCUT DEPTHS LISTED IN TABLE 6-4 OF THE GEOTECHNICAL REPORT ARE BASED ON THE SUBSURFACE CONDITIONS INTERPRETED FROM THE BORINGS AND SHOULD BE CONSIDERED APPROXIMATE. THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS COULD BE SIGNIFICANTLY DIFFERENT THAN THOSE ENCOUNTERED IN THE BORINGS. THE ACTUAL UNDERCUT DEPTHS AND EXTENT SHOULD BE DETERMINED BY THE GEOTECHNICAL ENGINEER OF RECORD OR AN AUTHORIZED REPRESENTATIVE AT THE TIME OF CONSTRUCTION.

Sheet 9

- H9-9 H9-10 52' - 15" STORM SEWER PIPE REQ'D (4' COVER)
INV.(IN) + 722.02, INV.(OUT) + 721.50
- H9-10 1 STD. DI-3B REQ'D
L=4', H=6.5' INV. + 721.40
STD IS-1 REQ'D
- H9-10 H9-14 100' - 24" STORM SEWER PIPE REQ'D (4' COVER)
INV.(IN) + 721.40, INV.(OUT) + 720.98
- H9-14 1 STD. DI-3B REQ'D
L=4', H=7.2' INV. + 720.88
- H9-14 H9-11 57' - 24" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) + 720.88, INV.(OUT) + 720.65
- H9-11 1 STD. DI-3B REQ'D
L=10', H=6.2' INV. + 720.55
- H9-11 H9-12 71' - 30" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) + 720.55, INV.(OUT) + 720.27
- H9-12 1 STD. DI-3B REQ'D
L=8', H=5.2' INV. + 720.17
- H9-12 H10-1 94' - 30" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) + 720.17, INV.(OUT) + 719.75

Sheet 10

- H10-1 1 MODIFIED DI-1 (SHALLOW) SD-5
L=5.52', H=3.6', 2 GRATES, INV. + 719.65
STD IS-1 REQ'D
- H10-1 H10-2 16' - 30" STORM SEWER PIPE REQ'D (1' COVER)
PROP. PIPE LESS THAN 2' MIN. COVER
INV.(IN) + 719.65, INV.(OUT) + 719.56
- H10-2 EX H88 (ADJUST EXISTING DI)
EX. TOP ELEV. + 723.20
PROP. TOP ELEV + 723.64
1 STD. MH-2 FRAME & COVER REQ'D
ADJUST TO GRADE, RAISE 0.44'
EX. INV.(IN) + 719.56
EX. INV.(OUT) + 719.54 (18" RCP)
PROP. INV.(IN) + 719.56

Sheet 11

- H11-1 1 STD 15' ES-1
INV. + 726.00
- H11-1 H11-2 46' - 24" STORM SEWER PIPE REQ'D (3' COVER)
INV.(IN) + 726.00, INV.(OUT) + 724.20
- H11-2 6J LF STD. MH-1 OR MH-2 REQ'D
1 STD. MH-1 FRAME & COVER REQ'D
PROP. INV. + 724.20 (FROM H11-1)
EX. INV. + 722.28 (FROM EX H127)
1 STD. IS-1 REQ'D
- V16-7 V16-6 131' - 42" STORM SEWER PIPE REQ'D (10' COVER)
INV.(IN) 721.90 INV.(OUT) 721.00
BEDDING REQUIREMENT "B"
95 TONS BEDDING MATERIAL AGGREGATE *25 OR *26
- V16-6 1-STD. 42" EW-2
INV.(OUT) 721.00
37 TONS EC-I, CLASS I, TYPE B INSTALLATION RIP-RAP REQ'D

Sheet 12

- H12-2 EX H125 (ADJUST EXISTING MH)
EX. TOP ELEV. + 728.84
PROP. TOP ELEV + 726.00
ADJUST TO GRADE, LOWER 2.84'
EX. INV.(IN) + 721.43 (30") PIPE TO BE REMOVED
EX. INV.(OUT) + 721.51 (24")
EX. INV.(OUT) + 721.42
PROP. INV.(OUT) + 721.42
- H12-2 H12-3 10' - 24" STORM SEWER PIPE REQ'D (6' COVER)
INV.(IN) + 721.42, INV.(OUT) + 721.00
- H12-3 1 STD 24" ES-1
INV. + 721.00

Sheet 13

- V16-3 1 STD. DI-3B REQ'D.
L=6', H=4' INV. 734.10
STD. ST-1 REQ'D.
- V16-3 V16-4 23' - 15" STORM SEWER PIPE REQ'D (1.4' COVER)
INV.(IN) 734.10 INV.(OUT) 733.87
- V16-4 10.6 LF STD. 5" MH-2 REQ'D.
1 STD. MH-1 FRAME & COVER REQ'D.
ROTATE TOP TO CENTER OF TRAVEL LANE
INV. + 727.16
STD. IS-1 REQ'D.
STD. ST-1 REQ'D.
1-1/2" STEEL PLATE REQ'D.
- V16-4 V16-7 63' - 42" STORM SEWER PIPE REQ'D (7' COVER)
INV.(IN) 727.16 INV.(OUT) 726.75
BEDDING REQUIREMENT "B"
45 TONS BEDDING MATERIAL AGGREGATE *25 OR *26
- V16-7 1 STD. DI-2EE REQ'D.
L=8', H=10.5' INV. 721.90
STD. IS-1 REQ'D.
STD. ST-1 REQ'D.
STD. SL-1 REQ'D.

Culverts

- H8-7 2-73' - 6" X 4' BOX CULVERTS REQ'D (3' COVER) (0 DEGREE SKEW)
INV.(IN) 717.50 INV.(OUT) 716.80
STD. BCS-DT, BCS-05, & BCW-21
4 STD. TYPE 1 WINGS REQ'D
CONNECT PIPE FROM H8-10 TO HEADWALL WINGWALL
(CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL)
Outfall - 18 Tons EC-I Class I Req'd
569 CY MINOR EXCAVATION REQ'D.
252 TONS BEDDING MATERIAL AGGREGATE *25 OR *26
- H11-3 35' - 36" CONC. PIPE REQ'D (2' COVER) (50 DEG. SKEW)
INV.(IN) 725.50 INV.(OUT) 724.00
2 STD. 36" ES-1 REQ'D
Outfall - 15 Tons EC-I Class II Req'd, Type B Installation
- H12-1 73' - 72" TUNNELED CONC. PIPE REQ'D, CLASS V
(6' COVER) (15 DEG. SKEW)
PIPE SHALL BE INSTALLED BY THE TUNNELED METHOD
BELL & SPIGOT PIPE WITH "O" RING GASKET OR TONGUE AND GROOVE WITH RAM-NEK TYPE FLEXIBLE GASKET MEETING THE CURRENT ASTM DESIGNATION C-76.
INV.(IN) 719.20 INV.(OUT) 718.80
1 STD. 72" EW-2 - INFLOW
1 STD. 72" EW-2 - OUTFALL
Outfall - 69 Tons EC-I Class I Req'd, Type B Installation
(SEE SWM DETAIL SHEET 2.15) FOR CULVERT PROFILE)

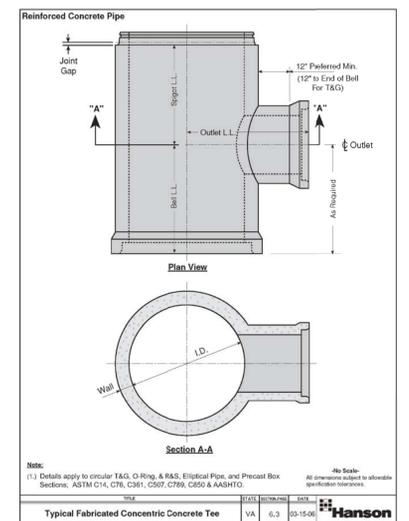
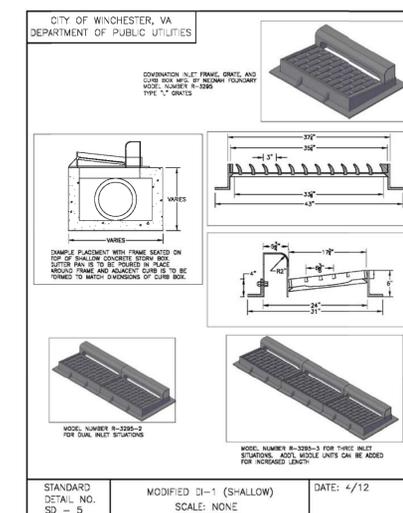
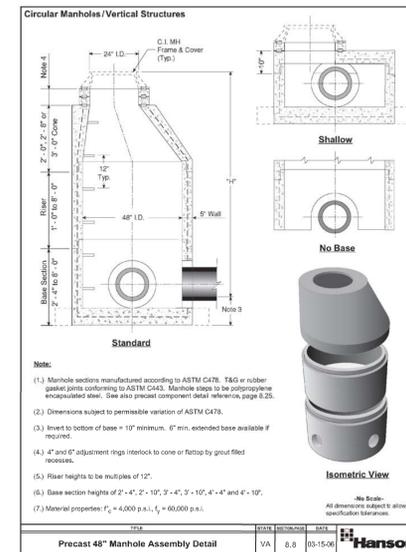
Circular Manholes / Vertical Structures

Min. Manhole I.D.	Standard Dimensions		
	Pipe Size	Manhole wall* MH1 & w4*	Manhole w4 R22
12"	B-Wall	3.15"	2.09"
	C-Wall	3.21"	2.13"
	C-Wall	3.48"	2.40"
15"	B-Wall	3.62"	2.33"
	C-Wall	3.75"	2.67"
	C-Wall	3.98"	2.85"
18"	B-Wall	4.00"	2.84"
	C-Wall	4.23"	3.15"
	C-Wall	4.28"	3.21"
24"	B-Wall	4.50"	3.42"
	C-Wall	4.56"	3.48"
	C-Wall	4.77"	3.69"
30"	B-Wall	4.83"	3.75"
	C-Wall	5.21"	4.13"
	C-Wall	5.27"	4.19"
36"	B-Wall	5.48"	4.40"
	C-Wall	5.54"	4.46"
	C-Wall	6.08"	5.00"
42"	C-Wall	6.65"	5.56"
	C-Wall	7.18"	6.10"
	C-Wall	7.73"	6.65"
48"	C-Wall	8.21"	7.15"
	C-Wall	8.81"	7.73"
	C-Wall	9.38"	8.29"
54"	C-Wall	9.80"	8.81"
	C-Wall	10.54"	9.48"
	C-Wall	11.08"	10.00"

Note:
 (1) Manhole sections manufactured according to ASTM C478, T&G or rubber gasket joints conforming to ASTM C443.
 Manhole Steps to be polypropylene encapsulated steel.
 See also precast component detail reference page 8.25.
 (2) Dimensions subject to permissible variation of ASTM C478.
 (3) Precast manhole may be considered for shorter structures.

Minimum Height Chart for Precast Manhole Structures

PIPE	MIN. HEIGHT	MAX. HEIGHT
VA	8.2	10.15-06



NOTE: WHERE NOTED FOR "HANSON SHALLOW MH STR.", CONTRACTOR TO USE DETAIL OR USE A PRODUCT OF APPROVED EQUIVALENT.

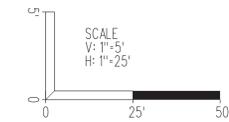
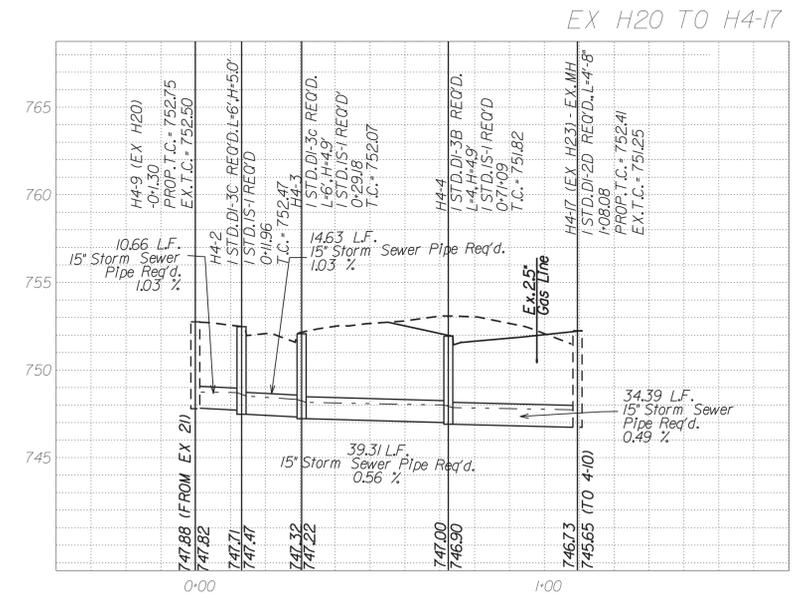
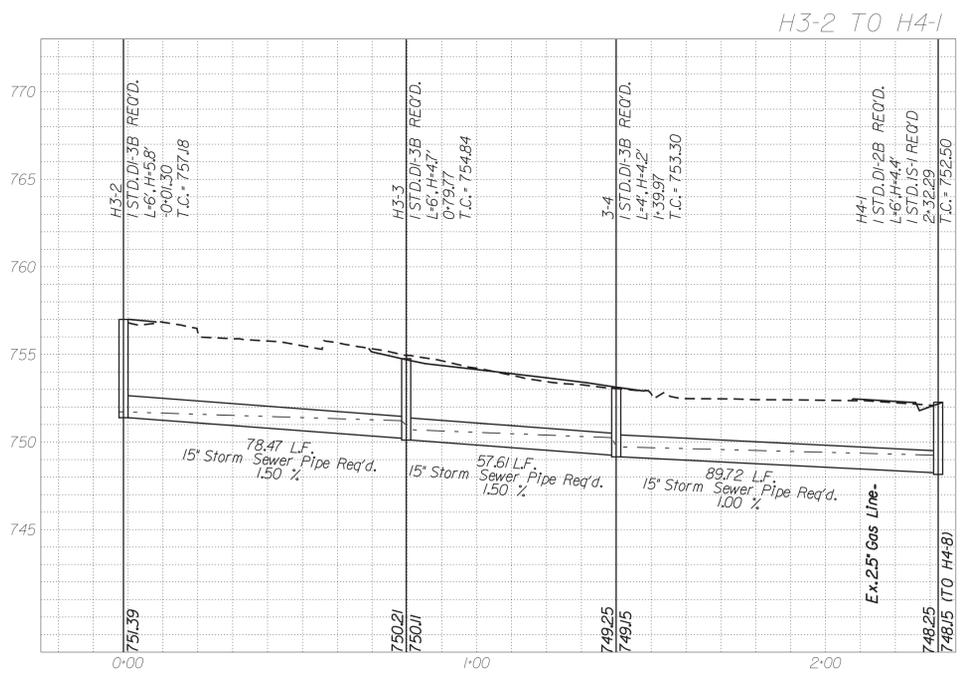
PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE Matthew, Braslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201, C-501	16(3)

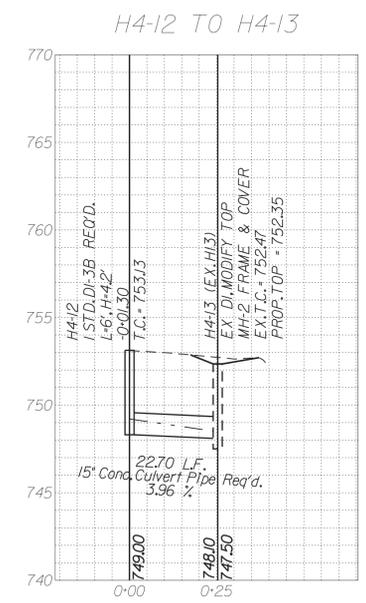
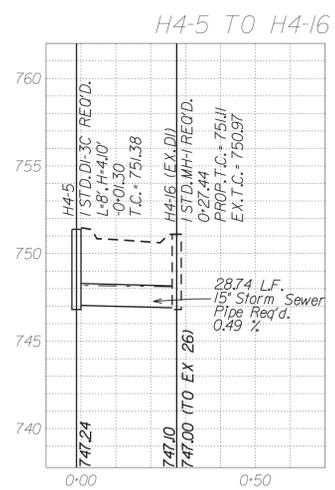
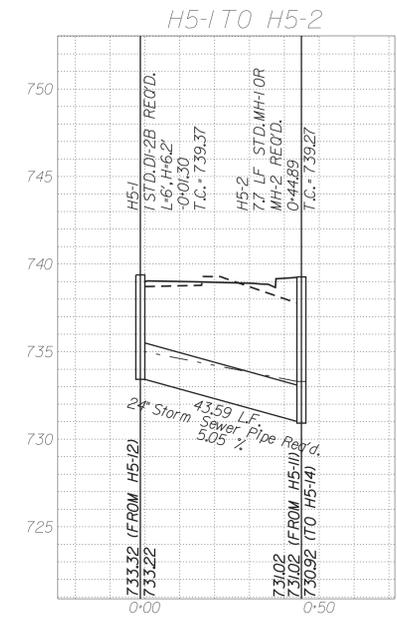
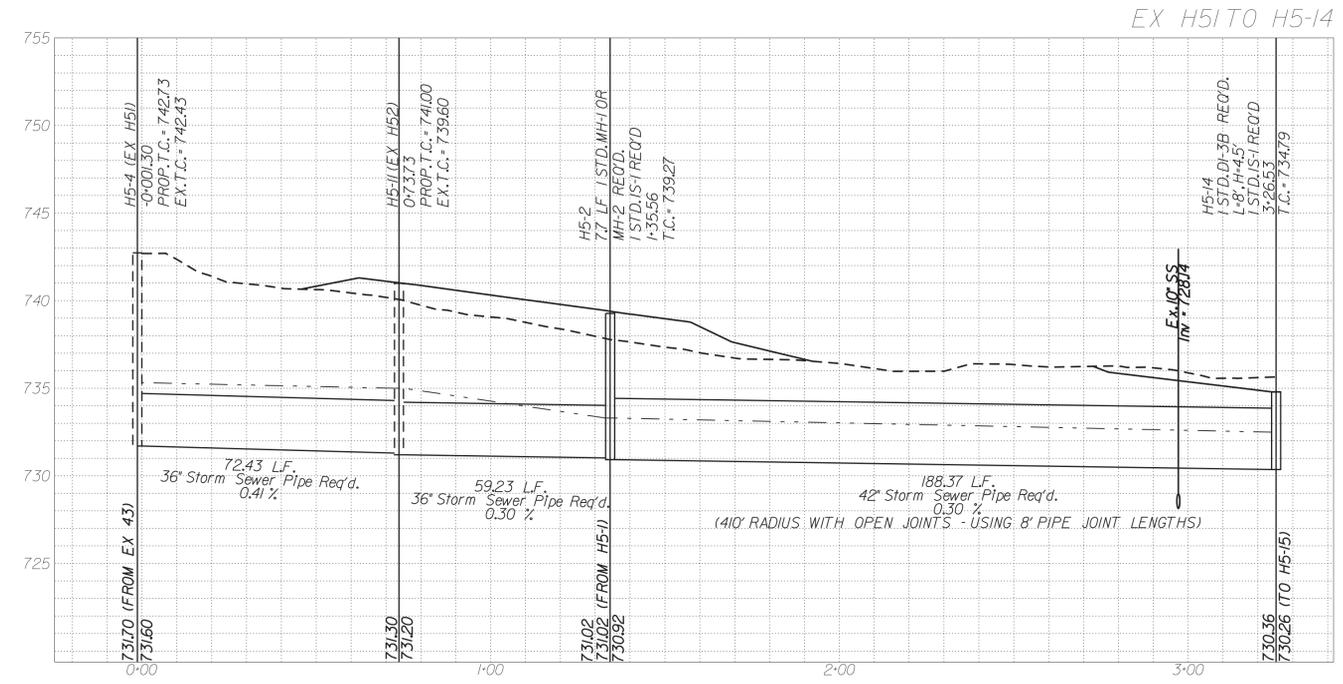
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



- Legend**
- DENOTES PROP. GRADE
 - - - DENOTES EX. GRADE
 - - - DENOTES HGL
 - - - DENOTES EX. STR. OR PIPE

Notes:

- 1) Storm Sewer Pipes shown on the profile are represented by their inner diameter dimension, and do not include wall thicknesses.
- 2) Only existing Utilities, at the time of the survey, are shown on the Storm Sewer Pipe Profiles. These profiles do not reflect either planned re-location of Utilities or proposed Utilities. The Contractor is also directed to any Utility Plans that may exist as part of this plan assembly.
- 3) Not all Utilities are shown on the Storm Sewer Profiles, only those Utilities listed on the Utility Test Hole Data Sheet with the addition of Sanitary Sewer line crossings.
- 4) All Utility locations are approximate, and are based on information from the project's Test Hole Data Sheet. Utility information shown is specific to its corresponding Utility Test Hole location.
- 5) Utility Test Hole Information is located on Sheet IH.
- 6) Utility clearance dimensions shown assume the use of concrete Storm Sewer Pipe and corresponding pipe thicknesses (worst case scenario).
- 7) Contractor to verify the condition of all existing storm structures (manholes) that are to be modified and connected by proposed storm drain pipes.



PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE Matthew Braslem, M.J.D., Atlantic Utility Locating (703) 378-0100, August 2014

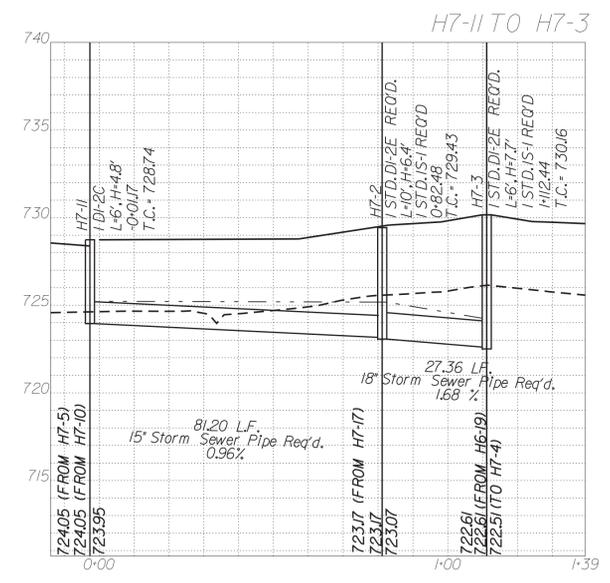
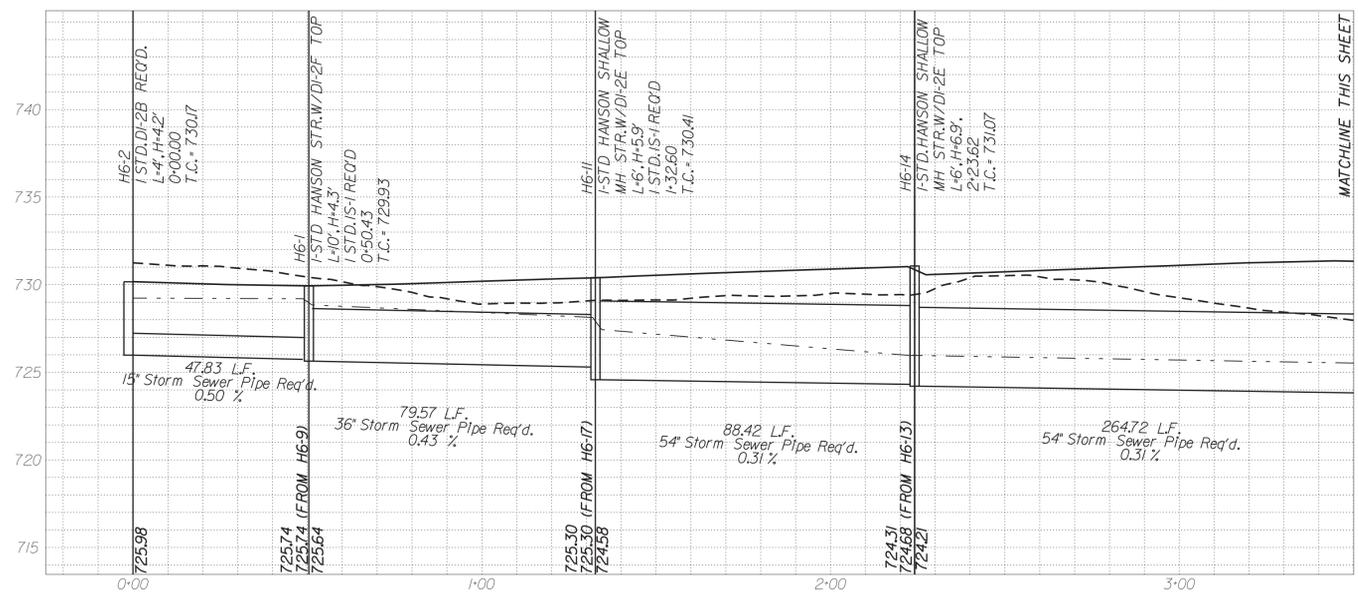
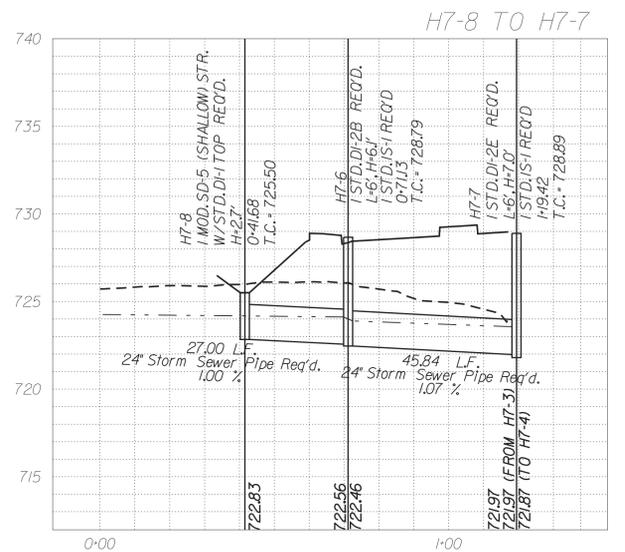
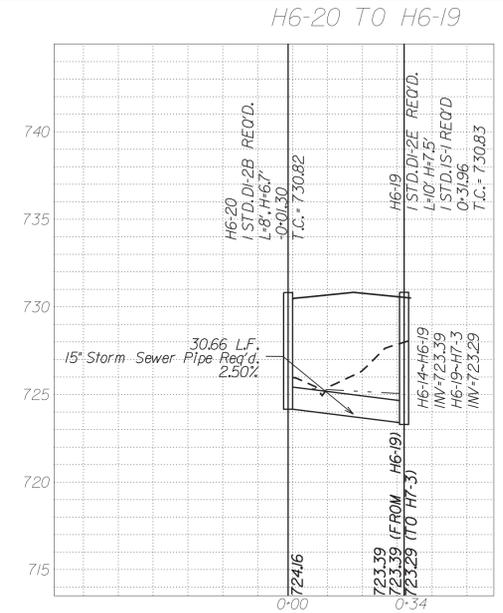
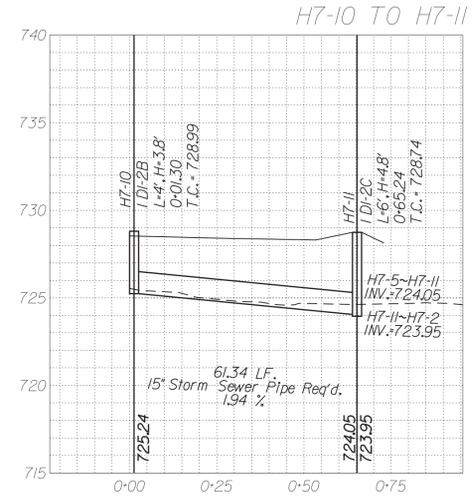
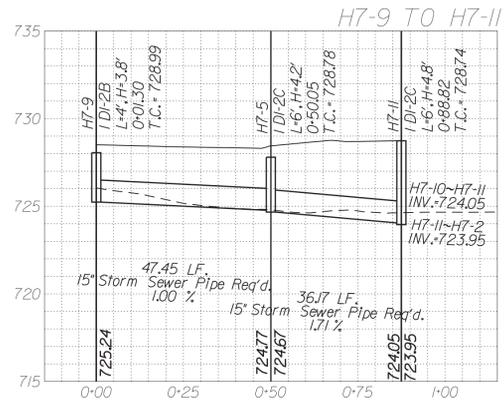
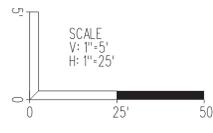
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Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Stormwater Management
Right of Way Services

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Fredericksburg, Virginia
DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	16(5)

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

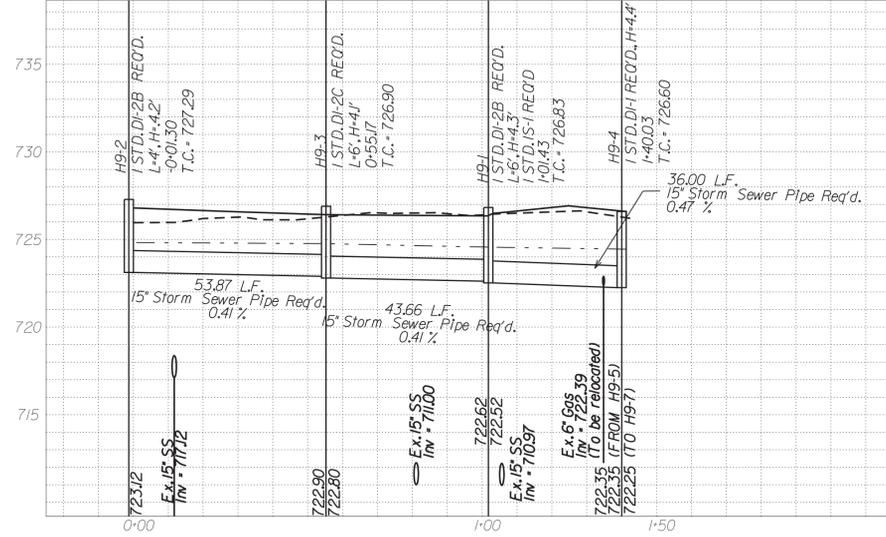


- Notes:**
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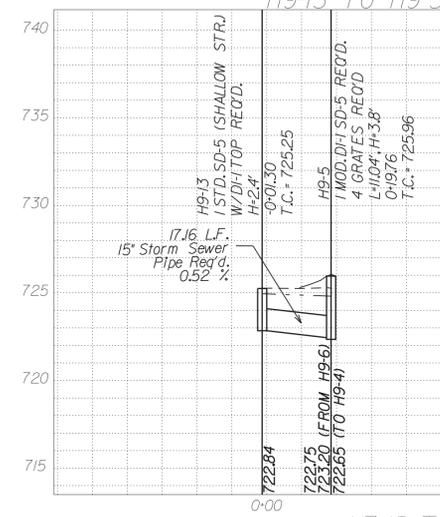
PROJECT	SHEET NO.
RS14-138-R10	16(5)

PROJECT MANAGER *Perry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Basilem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

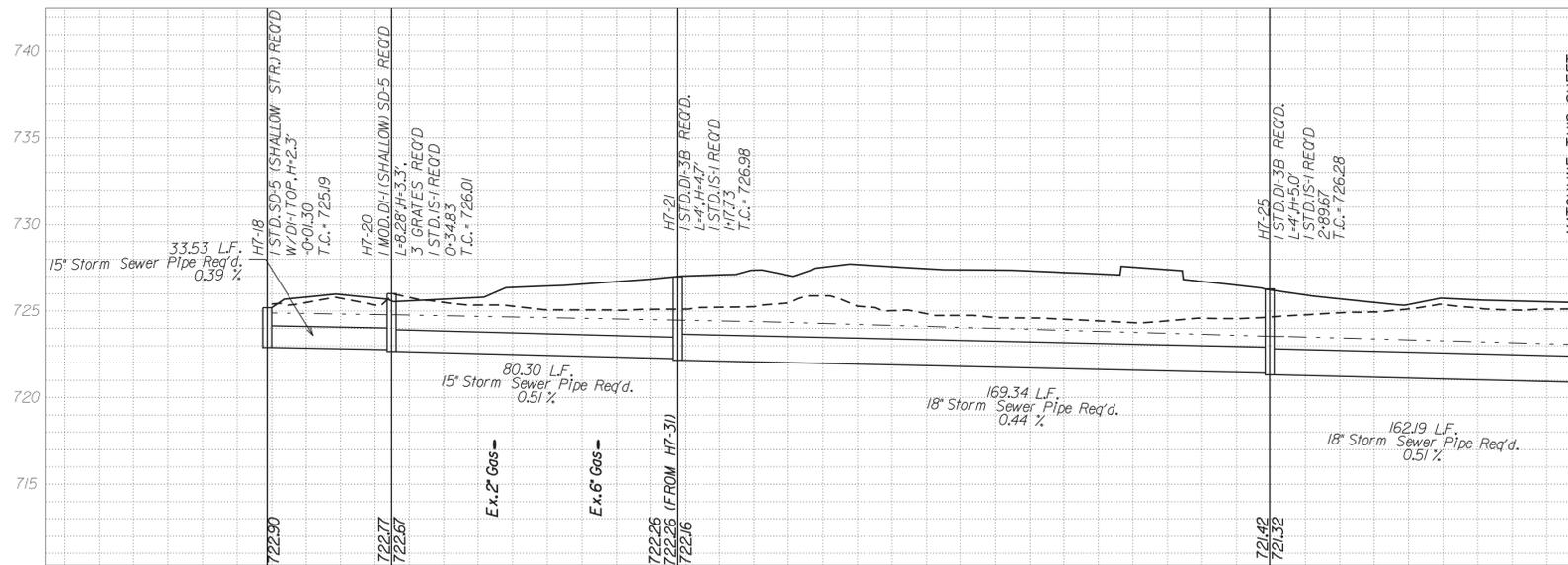
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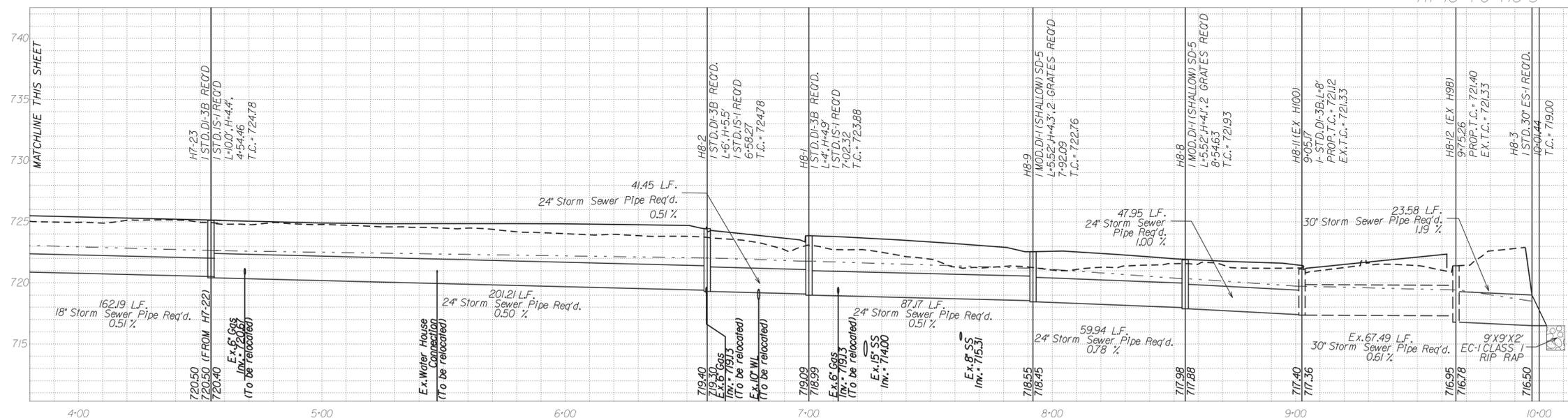
H9-13 TO H9-5



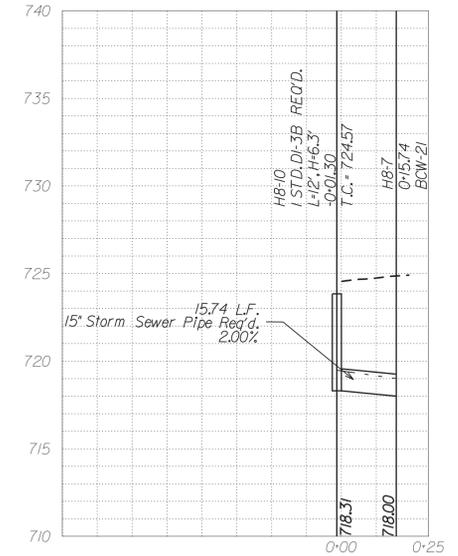
H7-18 TO H8-3



H7-18 TO H8-3



H8-10 TO H8-7

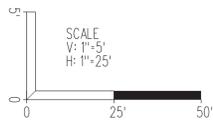


COMMONWEALTH OF VIRGINIA
 BRIAN P. KOMAR
 Lic. No. 045169
 PROFESSIONAL ENGINEER

Brian Komar
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 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	16(7)

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



- Legend**
- DENOTES PROP. GRADE
 - - - DENOTES EX. GRADE
 - - - DENOTES HGL
 - - - DENOTES EX. STR. OR PIPE

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SURVEYED BY, DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY, DATE Matthew Ranslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

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DRAINAGE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	16(8)

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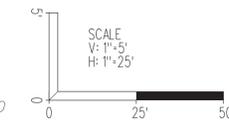
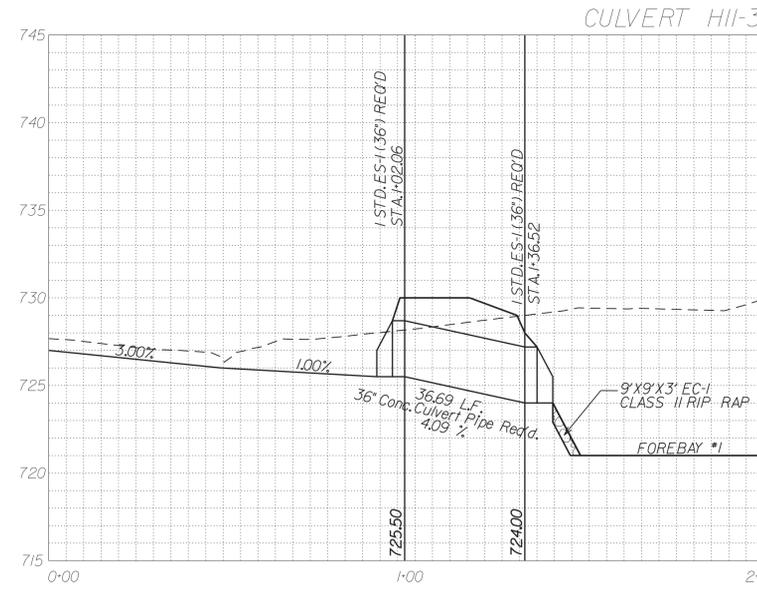
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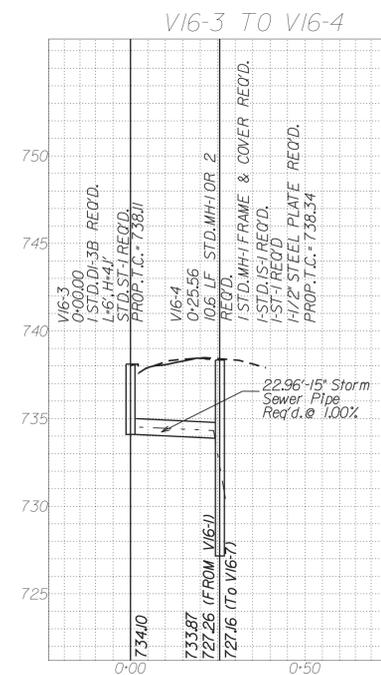
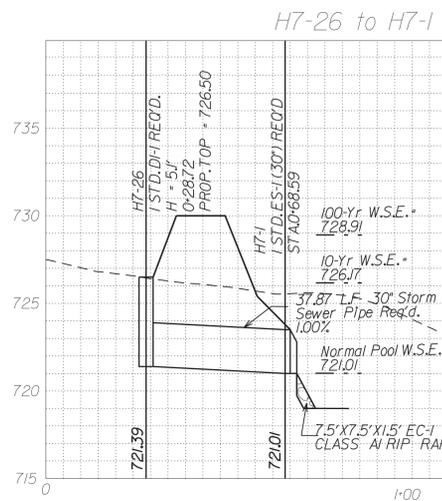
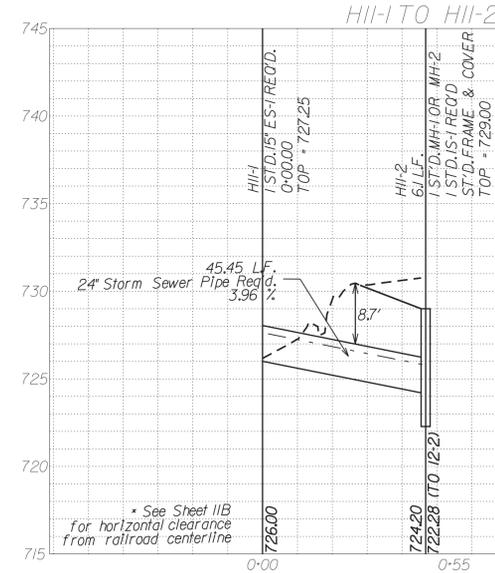
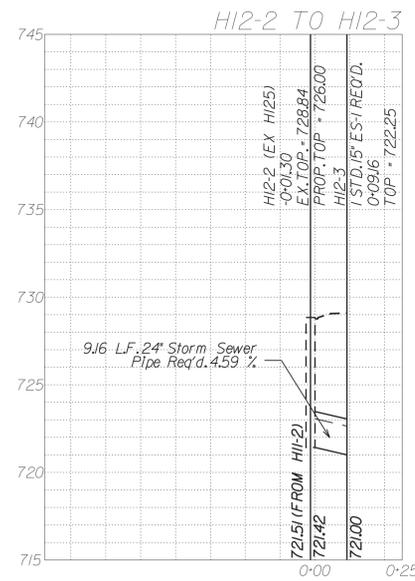
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Legend

- DENOTES PROP. GRADE
- DENOTES EX. GRADE
- DENOTES HGL
- DENOTES EX. STR. OR PIPE



ALLOWABLE TYPE OF PIPE CULVERT (UNLESS OTHERWISE SHOWN ON PLANS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 CORRUGATED STEEL	POLYMER COATED (10/10) CORRUGATED STEEL	UNCOATED GALVANIZED CORRUGATED STEEL	GALVANIZED STEEL STRUCTURAL PLATE	GALVANIZED STEEL STRUCTURAL PLATE WITH CONCRETE INVERT	CORRUGATED ALUMINUM ALLOY	CORRUGATED ALUMINUM ALLOY STRUCTURAL PLATE	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE C	POLYETHYLENE (PE) CORRUGATED TYPE S
Hope Drive	X										

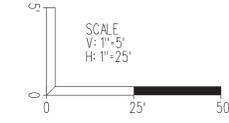
ALLOWABLE TYPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN ON PLANS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	CORRUGATED STEEL ALUMINUM COATED TYPE 2 FULLY CONCRETE LINED	ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)	ALUMINUM SPIRAL RIB	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYETHYLENE (PP) TYPE D or S
Hope Drive	X								

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 www.rinker.com

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Basilewicz, M.D.* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

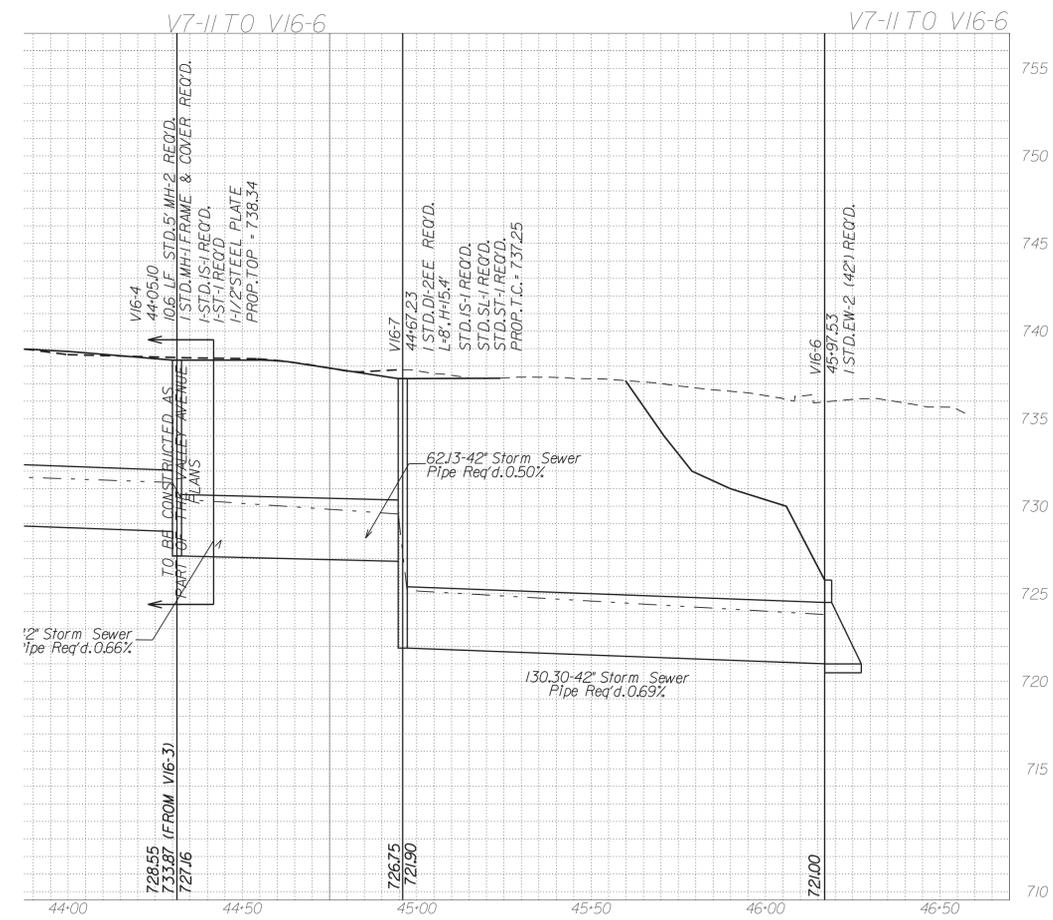
	REVISED	STATE	STATE	SHEET NO.
		VA.	ROUTE - PROJECT	16(9)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Brian P Komar 2019.05.10 08:30:59-04'00' Rinker Design Assoc., P.C. Fredericksburg, Virginia DRAINAGE ENGINEER				



- Legend**
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SURVEYED BY, DATE Sidney, Thomas, L.S., Rinker, Design Associates (703) 368-7373, October, 2014
DESIGN BY Adam, Weisenbach, P.E., Rinker, Design Associates (703) 334-9300
SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, M.D., Atlantic Utility Location (703) 378-0100, August, 2014

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-RIO-R-201,C-501	17(1)

GENERAL NOTES - TRAFFIC SIGNALS

- All work shall be in accordance with the current edition of the Manual of Uniform Traffic Control Devices (MUTCD), The Virginia Supplement to the 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 following items and operations shall conform to the standard listed below:

Signal Pole _____ Type I-A or I-A	21 Any pavement markings that will conflict with the proposed pavement markings shall be completely eradicated. Pavement Markings shall be modified to reflect the markings shown on this plan when the signal is installed.
Signal Pole Foundation _____ PF-8	22 All signal heads shall have Aluminum backplates. Backplate hardware shall be stainless steel.
Conduit Installation _____ ECI-1 or Bored	23 The Contractor shall be responsible for providing and maintaining electrical service to the project controller at all times. The Contractor shall be responsible for all costs associated with providing/continuing electrical service to the traffic signal until project completion.
Signal Head Hangers _____ SM-3	24 Traffic signal heads shall be cast aluminum.
Sign Hanger _____ SMD-2	25 Hanger assembly brackets for angled traffic signal heads shall be installed such that back plates can be installed without alteration or modification.
Junction Box _____ JB-S1, JB-S2, JB-S3	26 The Contractor shall be responsible for maintaining detection on all approaches of the intersection at all times and throughout all phases of construction. Contractor shall utilize Video detection as approved by the City.
Controller Cabinet Foundation _____ CF-1	27 No junction boxes shall be installed in paved shoulder, sidewalk, or multi-purpose trail.
Electrical Service _____ SE-5	28 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.
- Five (5) working days prior to commencing traffic signal work at any location within City of Winchester, the Contractor must notify the applicable City permits section 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.
- Prior to construction, The City's Engineer shall verify and approve the final location of controller cabinet.
- All parts of the signal to be installed shall be a minimum of 1' inside the right of way line or signal easement, unless directed by the City's Engineer.
- Following implementation of base signal timings the Contractor shall have a qualified representative present to monitor traffic flow and adjust timings as directed by City staff as necessary for a minimum of two consecutive morning and evening rush hour periods.
- For installation of conduits, no open cut will be allowed in the roadway surface or any other paved or concrete areas.
- The Contractor shall perform test pits and exercise care in placement of signal equipment to preclude utility conflicts. If adjustments in pole locations are required, the Contractor shall notify the City and the Engineer prior to commencing work.
- 6' x 40' Video detector zones shall be implemented and shall begin 3' in front of the stop line.
- 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 and solely the cost of the Contractor.
- Contractor shall not impact existing utilities when installing any component of the proposed signal. Any disruption to utility service shall be solely the cost of the Contractor to repair or replace.
- 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, unless directed by the City.
- Maintenance and repair of the traffic signal and any necessary modifications during construction is the sole responsibility and cost of the Contractor until project completion.
- All unused wires in the signal heads shall be capped individually with crimp type caps.
- 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.
- Site preparation and grading shall be incidental to signal installation.
- The Contractor shall be responsible for providing new and maintaining communication between the signal controller and the Rail Road Gate Controller at all times. The Contractor is responsible for coordinating communication with CSXT Rail Road Company.
- The cost of Equipment Grounding Conductor (#8 AWG EGC) is included in the cost of conduits.

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM	PLAN SYMBOL		PLAN ITEM	PLAN SYMBOL	
	PROPOSED	EXISTING		PROPOSED	EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)			Electrical Service Meter		
Pedestal Pole and Foundation (S'd, PF-2)			Electrical Service Safety Switch (Disconnect)		
Pedestal Pole and Foundation (S'd, PA-3)			Controller Cabinet		
Traffic Signal Head w/ Backplate			Ground Mounted		
Traffic Signal Head w/o Backplate			Pole Mounted		
Pedestrian Signal Head			Master Controller Cabinet		
Pedestrian Pushbutton & Sign			Ground Mounted		
Traffic Signal Sign Mast Arm or Span Wire M'd.			Pole Mounted		
Emergency Vehicle Pre-emption (EVP) Sensor			Std. CF-1		
Junction Box (S'd, as noted on plans)			Controller Cabinet & Foundation		
Signal Luminaire (250 W) and Arm			Std. CF-3		
Signal Luminaire (400 W) and Arm			Std. CF-4		
Loop Detector (Size as noted on plans)			Std. CF-1		
Video Detection Camera			Std. CF-3		
Video Detection Zone (Size as noted on plans)			Std. CF-4		
Conduit			Master Controller Cabinet & Foundation		
			Std. CF-3		
			Std. CF-4		
			Uninterruptible Power Supply Cabinet		

LABELS

Signal Pole or Controller		Proposed Signal Head		Signal Phasing	$\emptyset 2$	Sign	S-L
Cable and Conduit		Existing Signal Head		Pedestrian Phasing	$P \emptyset$	Video Detection Camera	VDC-L
Junction Box		Proposed Pedestrian Signal Head		Emergency Preemption Detector	EVP-L		
		Existing Pedestrian Signal Head					

INDEX OF SHEETS

Sheet No.:	Sheet Description:
17(1)	Index of Sheets, General Notes & Legend
17(2A)	Sign Fabrication Details
17(3)	Traffic Signal Plan - Hope Drive & Paper Mill Road
17(4)	Traffic Signal Plan - Valley Ave (Rte. 11) & Hope Drive

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

Index of Sheets, General Notes & Legend

CITY OF WINCHESTER

PROJECT
RS14-138-RIO

SHEET NO.
17(1)

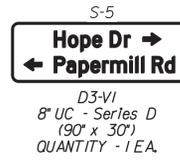
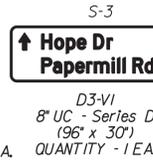
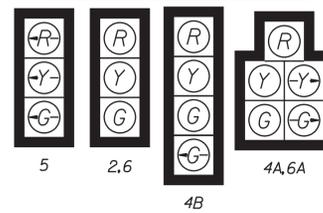
PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker, Design Associates (703) 368-7373, October, 2014
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SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, M. - Mid-Atlantic Utility Location (703) 378-0100, August, 2014

Adam D. Welschenbach
2020.04.24
Welschenbach 10:17:59 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED	STATE	ROUTE	PROJECT	STATE	SHEET NO.
	VA.		RS14-138-RIO-R-201,C-501		17(3)

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

Proposed Signals



NOTE: All signals shall be 12" LED with polycarbonate backplates and cap visors

CABLE AND CONDUIT LEGEND

3" Conduit 2-14/7c (Heads 6,6A) 1-VDC 1-8 EGC	3" Conduit 4-14/7c (Heads 2,4A,4B,5) 2-VDC 1-8 EGC
3" Bored Conduit 2-14/7c (Heads 6,6A) 1-VDC 1-8 EGC	2" Conduit 1- RR Interconnect Cable 1-8 EGC
3" Bored Conduit Spare, 1-8 EGC	1 1/2" Conduit 3-8/1c (Power) 1-8 EGC

EGC - Equipment Grounding Cable
VDC - Denotes Video Detector Cable
M - Denotes Metal Conduit

Color Sequence Chart

SIGNAL	PHASES								COMBINATIONS		RR PRE-EMPT	FLASH	
	1	2	3	4	5	6	7	8	2-5	2-6			
2		G								G	G		Y
4A				G	R					R			R
4B				G	R					R			R
5													-R-
6						G				G	G		Y
6A						G				G	G		Y

NOTE: Blank Space Denotes Red Indication

SIGNAL TIMINGS TO BE PROVIDED BY THE CITY OF WINCHESTER

JUNCTION BOX LEGEND

- (S1) Denotes S'd.JB-S1
- (S2) Denotes S'd.JB-S2
- (S3) Denotes S'd.JB-S3

Signal Pole & Controller Legend

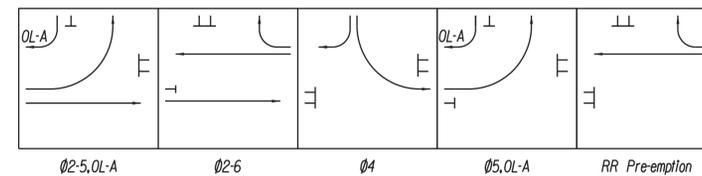
(ALL DIMENSIONS ARE TO CENTER OF POLE)

- (A) MAST ARM POLE TYPE II-A
PF-8 Foundation
33.9' RT. of Hope Dr Constr. B Sta. 36+61
50' Arm Perpendicular to Hope Dr Constr. B
Distance From Stop Bar = 71'
Signal Placement: 23', 33', 45'
Sign Placement: 14', 42'
VDC Placement: 28'
 - (B) MAST ARM POLE TYPE I-A
PF-8 Foundation
41.5' LT. of Hope Dr Constr. B Sta. 35+79
40' Arm Perpendicular to Hope Dr Constr. B
Distance From Stop Bar = 98'
Signal Placement: 25', 34'
Sign Placement: 9', 22'
VDC Placement: 29'
 - (C) CONTROLLER CABINET & FOUNDATION (CF-1)
 - (D) Controller Cabinet For RR Gates. To Be Installed By CSXT
- 30' Arm Parallel to Hope Dr Constr. B
Distance From Stop Bar = 101'
Signal Placement: 11', 22'
Sign Placement: 5', 15', 26'
VDC Placement: 18'

NOTES:

- Contractor shall Coordinate Rail Road Pre-emption and Interconnect needs with CSXT Rail Road personnel prior to start of construction of proposed traffic signal.
- Proposed Rail Road Crossing Gate to be Installed by CSXT Rail Road.
- See SE-5 Electrical Service S'd for Grounding system and Junction Box requirements. Contractor shall coordinate power source with City and power service provider at no additional cost to the project. All labor, materials, equipment, conduits, etc. should be included in this effort, at no additional cost to the project.

Phasing Diagram



TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN
Hope Drive & Paper Mill Road

CITY OF WINCHESTER

PROJECT
RS14-138-RIO

SHEET NO.
17(3)

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PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October, 2014.
 DESIGN BY Adam, Welschenbach, P.E. - Rinker Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, - Mid-Atlantic Utility Location (703) 378-0100, August, 2014.

ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

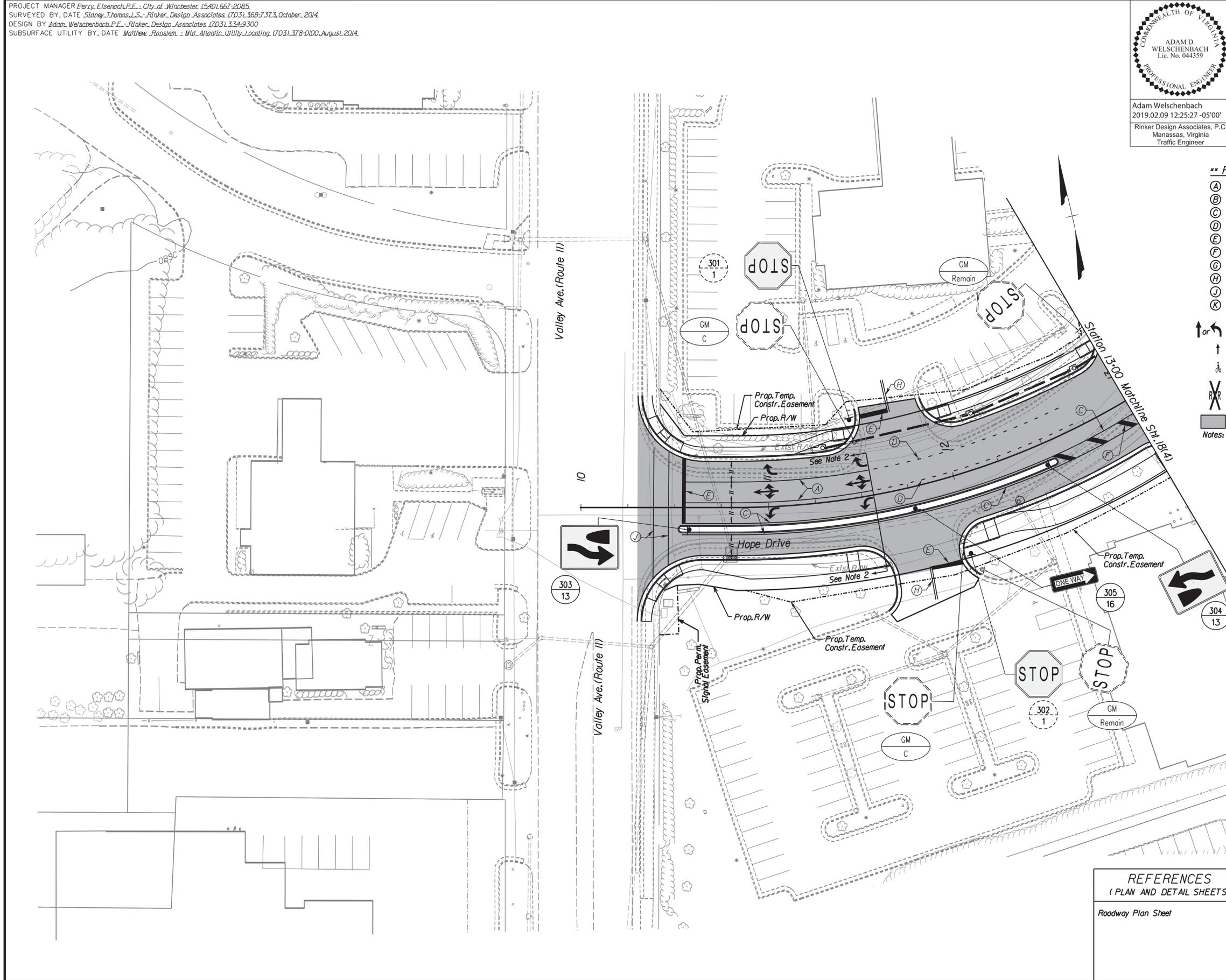
Adam Welschenbach
2019.02.09 12:25:27 -05'00'
Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201, C-501	18(3)

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- ** Pavement Marking Legend ****
- (A) Type B, Class I, White, 4" Width
 - (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
 - (C) Type B, Class I, Yellow, 4" Width
 - (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
 - (E) Type B, Class I, White, 24" Width
 - (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45'
 - (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
 - (H) Type B, Class I, Double Yellow, 4" Width
 - (J) Type B, Class I, White, 6" Width
 - (K) Type B, Class I, White, 12" Width, 2' Spacing
- ↔ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
 - ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
 - 🚲 Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
 - RR Type B, Class VI, White, Pavement Marking Message, Railroad Crossing
- Shading Denotes Areas of New Surface Pavement/Concrete

Notes:
 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.
 2. See Valley Ave Project No. U000-138-R04 Pavement Marking Plans.



REFERENCES (PLAN AND DETAIL SHEETS)	TRAFFIC CONTROL DEVICE PLANS SIGNING AND PAVEMENT MARKING PLAN
Roadway Plan Sheet 3	CITY OF WINCHESTER PROJECT RS14-138-R10
	SCALE 0 25' 50'
	SHEET NO. 18(3)

Rinker
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 11042660181031.dgn
 1/30/2019 11:18:19 AM
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 Manassas Park, VA
 Reston, VA
 Fairfax, VA
 Herndon, VA
 Leesville, VA
 Loudoun, VA
 Quantico, VA
 Stafford, VA
 Warrenton, OR
 Right of Way Division

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October, 2014
 DESIGN BY Adam, Welschenbach, P.E. - Rinker Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, - Mid-Atlantic Utility Location (703) 378-0100, August, 2014

**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (C) Type B, Class I, Yellow, 4" Width
- (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (E) Type B, Class I, White, 24" Width
- (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45°
- (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
- (H) Type B, Class I, Double Yellow, 4" Width
- (J) Type B, Class I, White, 6" Width
- (K) Type B, Class I, White, 12" Width, 2' Spacing
- (TE) Denotes Tie to Existing Pavement Marking
- ↑ or ↖ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- ↻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- R/R Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

Shading Denotes Areas of New Surface Pavement/Concrete

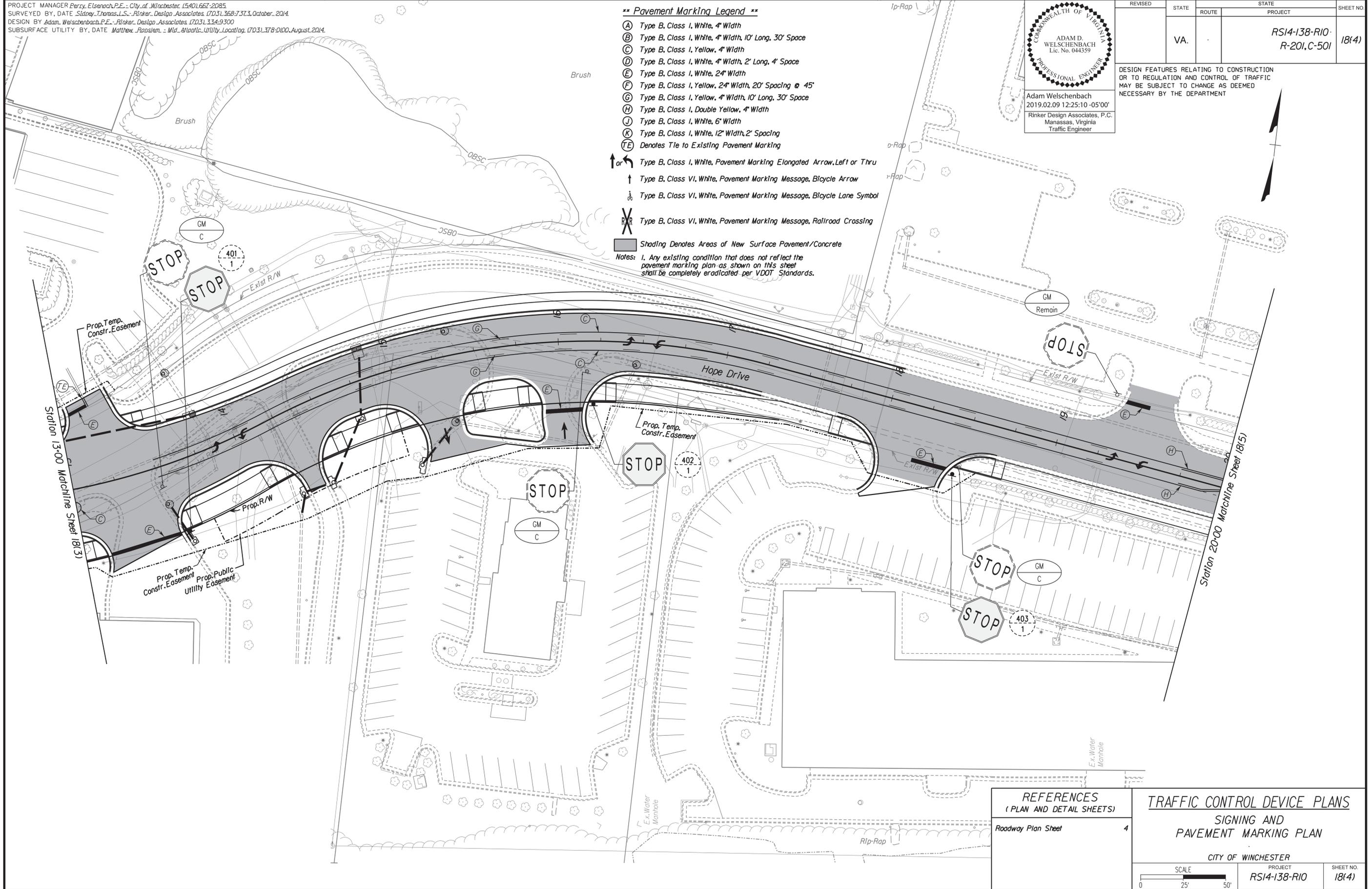
Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

COMMONWEALTH OF VIRGINIA
 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER
 Adam Welschenbach
 2019.02.09 12:25:10 -05'00'
 Rinker Design Associates, P.C.
 Manassas, Virginia
 Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10-R-201,C-501	18(4)

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

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 Civil Engineering • Surveying • Land Planning
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REFERENCES (PLAN AND DETAIL SHEETS)	
Roadway Plan Sheet	4

**TRAFFIC CONTROL DEVICE PLANS
SIGNING AND
PAVEMENT MARKING PLAN**

CITY OF WINCHESTER

PROJECT: RS14-138-R10

SCALE: 0 25' 50'

SHEET NO. 18(4)

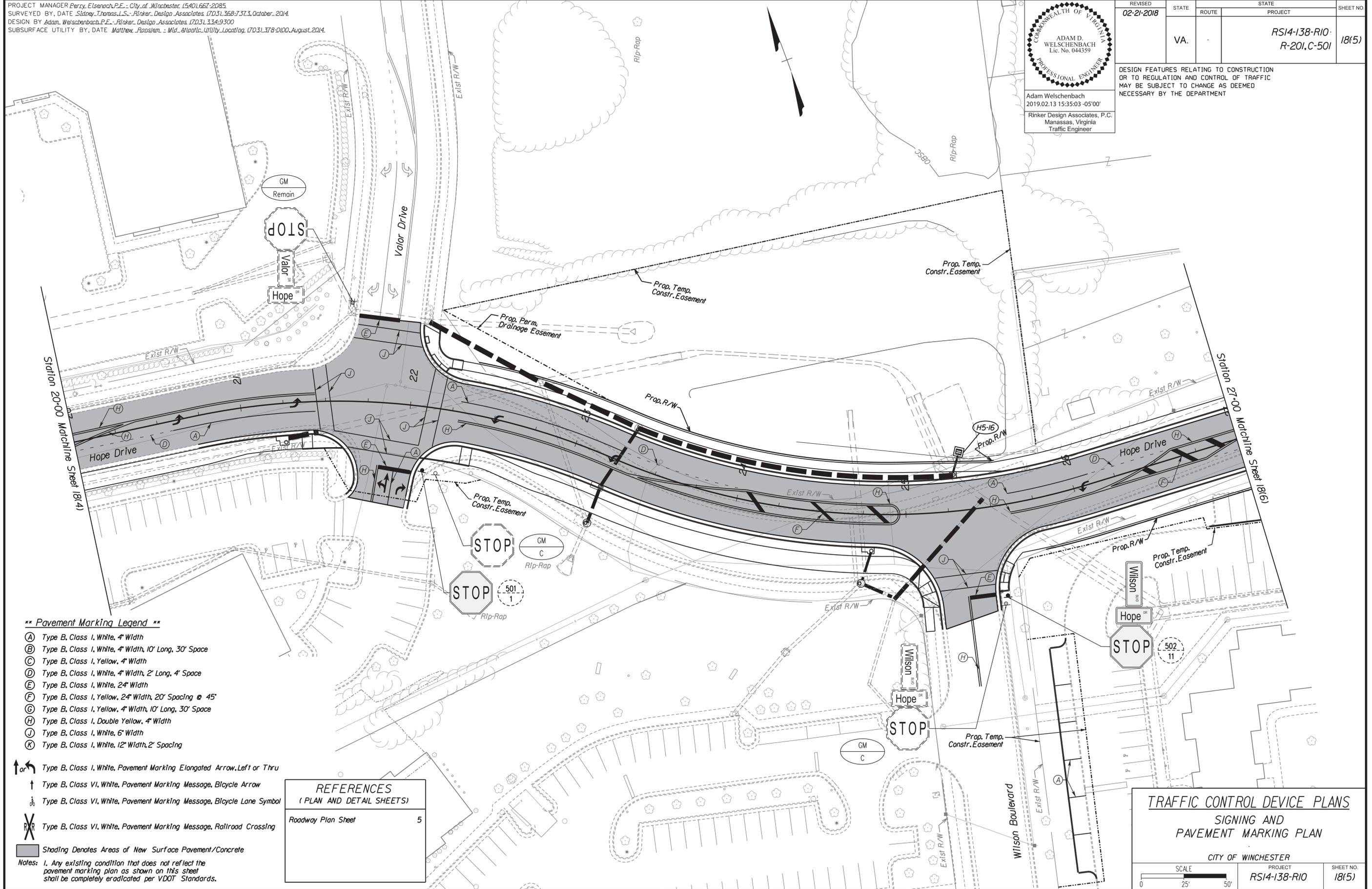
PROJECT MANAGER *Perry, Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney, Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October, 2014
 DESIGN BY *Adam, Welschenbach, P.E.* - Rinker Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE *Matthew, Roaslem* - Mid-Atlantic Utility Location (703) 378-0100, August, 2014

COMMONWEALTH OF VIRGINIA
 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER
 Adam Welschenbach
 2019.02.13 15:35:03 -05'00'
 Rinker Design Associates, P.C.
 Manassas, Virginia
 Traffic Engineer

REVISED 02-21-2018	STATE VA.	ROUTE	STATE PROJECT RS14-138-R10 R-201,C-501	SHEET NO. 18(5)
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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.
 Office Locations: Manassas, VA; Fairfax, VA; Herndon, VA; Reston, VA; Springfield, VA; Warrenton, OR; Denver, CO; Dallas, TX; Houston, TX; Phoenix, AZ; San Diego, CA; San Jose, CA; San Francisco, CA; Los Angeles, CA; San Antonio, TX; Austin, TX; Chicago, IL; Dallas, TX; Denver, CO; Fort Worth, TX; Houston, TX; Kansas City, MO; Las Vegas, NV; Little Rock, AR; Louisville, KY; Memphis, TN; Miami, FL; Milwaukee, WI; Minneapolis, MN; New York, NY; Oklahoma City, OK; Omaha, NE; Phoenix, AZ; Portland, OR; Raleigh, NC; Salt Lake City, UT; San Diego, CA; San Francisco, CA; Seattle, WA; Tampa, FL; Wichita, KS.



- ** Pavement Marking Legend ****
- (A) Type B, Class I, White, 4" Width
 - (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
 - (C) Type B, Class I, Yellow, 4" Width
 - (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
 - (E) Type B, Class I, White, 24" Width
 - (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45°
 - (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
 - (H) Type B, Class I, Double Yellow, 4" Width
 - (J) Type B, Class I, White, 6" Width
 - (K) Type B, Class I, White, 12" Width, 2' Spacing
- ↑ or ↖ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
 ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
 ↻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
 X Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

REFERENCES (PLAN AND DETAIL SHEETS)	
Roadway Plan Sheet	5

Shading Denotes Areas of New Surface Pavement/Concrete
 Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

**TRAFFIC CONTROL DEVICE PLANS
 SIGNING AND
 PAVEMENT MARKING PLAN**

CITY OF WINCHESTER
 PROJECT RS14-138-R10
 SHEET NO. 18(5)

SCALE 0 25' 50'

PROJECT MANAGER *Perry, Etsenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney, Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October, 2014
 DESIGN BY *Adam, Welschenbach, P.E.* - Rinker Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE *Matthew, Roaslem* - Mid-Atlantic Utility Location (703) 378-0100, August, 2014

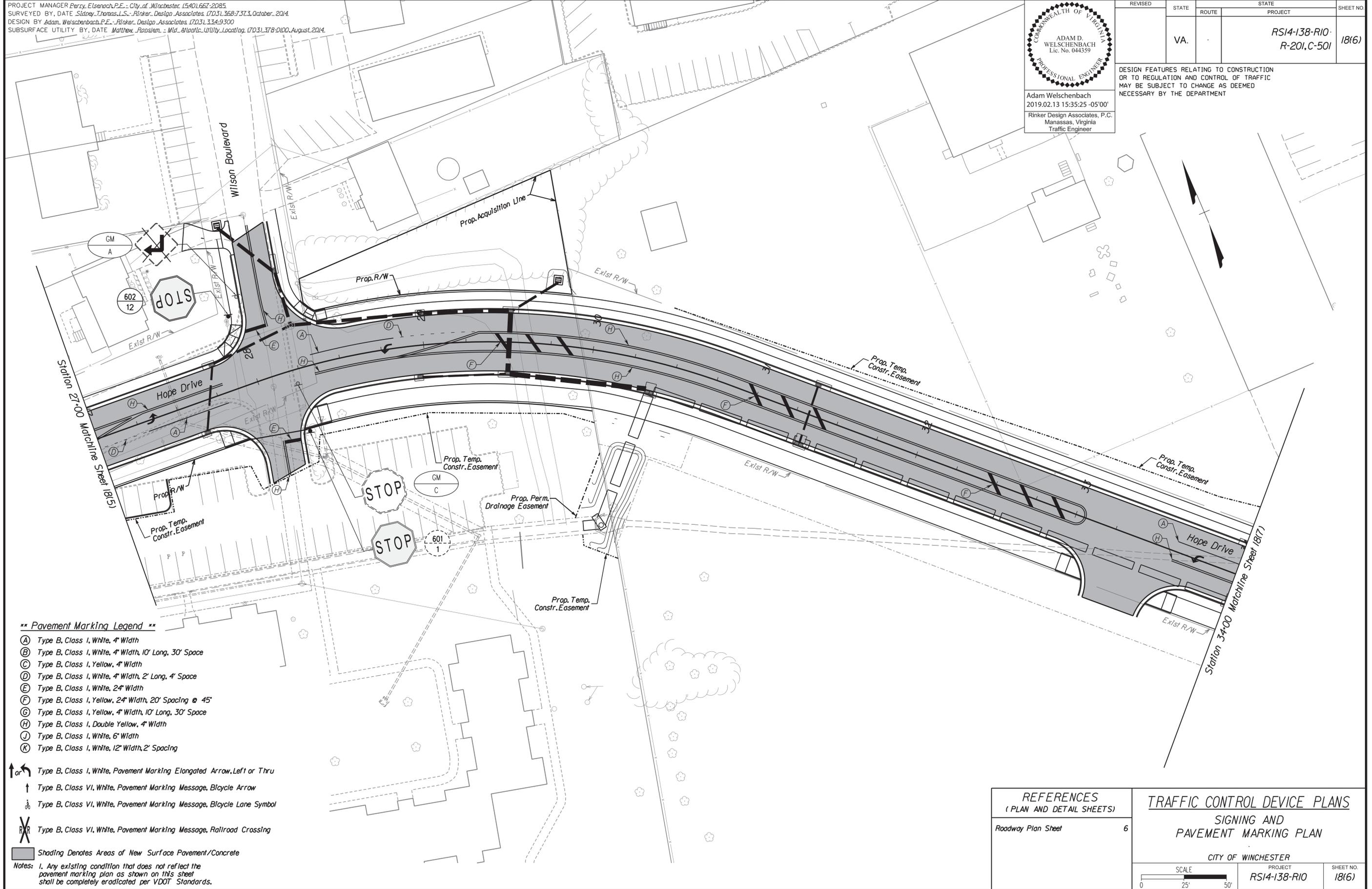
Adam D. WELSCHEBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam Welschenbach
2019.02.13 15:35:25 -05'00'
Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10-R-201,C-501	18(6)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Old Dominion Blvd, Suite 100
 Manassas, VA 20108
 (703) 334-9300
 www.rinker.com



**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (C) Type B, Class I, Yellow, 4" Width
- (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (E) Type B, Class I, White, 2 1/2" Width
- (F) Type B, Class I, Yellow, 2 1/2" Width, 20' Spacing @ 45°
- (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
- (H) Type B, Class I, Double Yellow, 4" Width
- (J) Type B, Class I, White, 6" Width
- (K) Type B, Class I, White, 12" Width, 2' Spacing

- ↔ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- ⊘ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- RR Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

Shading Denotes Areas of New Surface Pavement/Concrete

Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

REFERENCES (PLAN AND DETAIL SHEETS)	
Roadway Plan Sheet	6

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND PAVEMENT MARKING PLAN

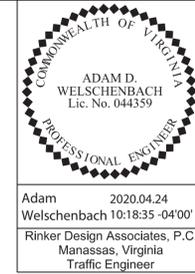
CITY OF WINCHESTER

PROJECT: RS14-138-R10

SHEET NO. 18(6)

SCALE: 0' 25' 50'

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker, Design Associates (703) 368-7373, October, 2014
DESIGN BY Adam, Welschenbach, P.E. - Rinker, Design Associates (703) 334-9300
SUBSURFACE UTILITY BY, DATE Matthew, Roaslem - Mid-Atlantic Utility Location (703) 378-0100, August, 2014

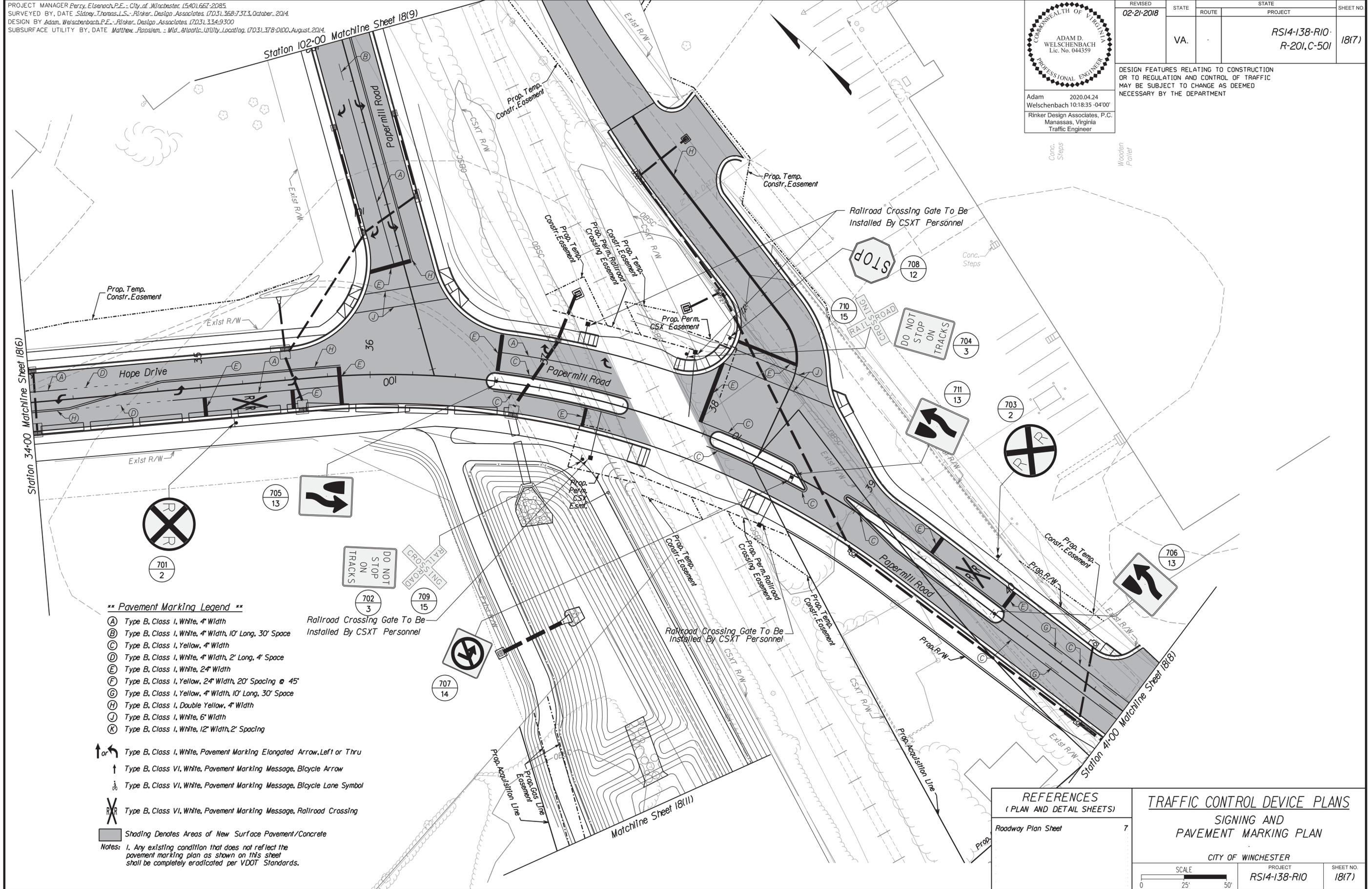


Adam 2020.04.24
Welschenbach 10:18:35 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED 02-21-2018	STATE VA.	ROUTE	STATE PROJECT RS14-138-RIO- R-201,C-501	SHEET NO. 18(7)
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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.
 Civil Engineering - Surveying - Land Planning
 Transportation Engineering - Right of Way Services



**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (C) Type B, Class I, Yellow, 4" Width
- (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (E) Type B, Class I, White, 24" Width
- (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45'
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- (K) Type B, Class I, White, 12" Width, 2' Spacing

- ↔ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- ♻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- XX Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

Shading Denotes Areas of New Surface Pavement/Concrete

Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	7
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TRAFFIC CONTROL DEVICE PLANS
SIGNING AND PAVEMENT MARKING PLAN

CITY OF WINCHESTER

SCALE: 0 25' 50'

PROJECT RS14-138-RIO	SHEET NO. 18(7)
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PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October, 2014.
DESIGN BY Adam, Welschenbach, P.E. - Rinker Design Associates (703) 334-9300
SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, - Mid-Atlantic Utility Location (703) 378-0100, August, 2014.

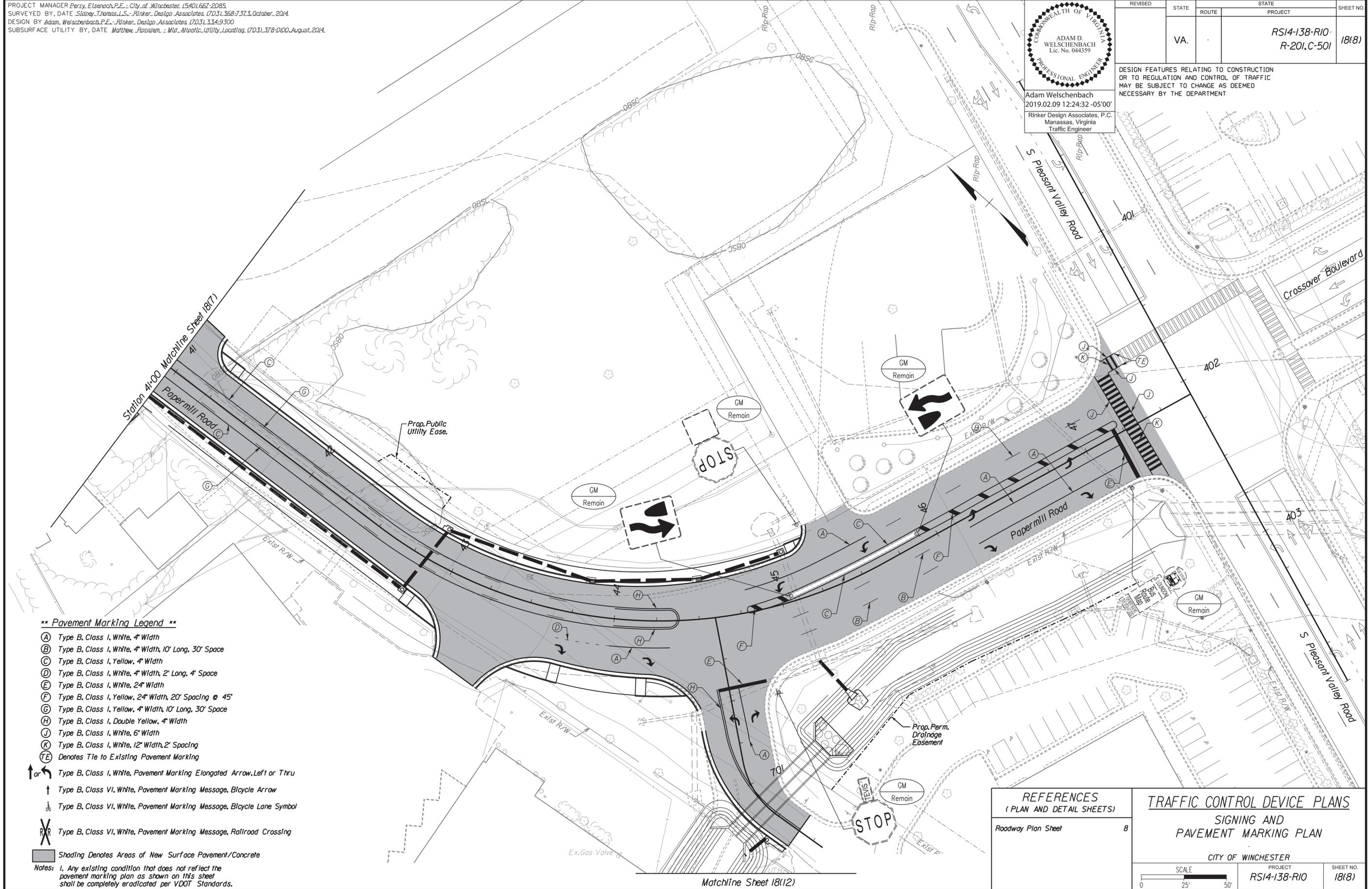
COMMONWEALTH OF VIRGINIA
 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER

Adam Welschenbach
 2019.02.09 12:24:32 -05'00'
 Rinker Design Associates, P.C.
 Manassas, Virginia
 Traffic Engineer

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.			RS14-138-R10-R-201, C-501	18(8)

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

Office Locations
 Rinker Design Associates, P.C.
 11042660181081.dgn
 11/30/2019 11:18:38 AM
 Plotted By: localuser



- ** Pavement Marking Legend ****
- (A) Type B, Class I, White, 4" Width
 - (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
 - (C) Type B, Class I, Yellow, 4" Width
 - (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
 - (E) Type B, Class I, White, 24" Width
 - (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45'
 - (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
 - (H) Type B, Class I, Double Yellow, 4" Width
 - (J) Type B, Class I, White, 6" Width
 - (K) Type B, Class I, White, 12" Width, 2' Spacing
 - (TE) Denotes Tie to Existing Pavement Marking
- ↑ or ↖ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- ↻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- ⊕ Type B, Class VI, White, Pavement Marking Message, Railroad Crossing
- Shading Denotes Areas of New Surface Pavement/Concrete
- Notes:
 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

REFERENCES (PLAN AND DETAIL SHEETS)		TRAFFIC CONTROL DEVICE PLANS SIGNING AND PAVEMENT MARKING PLAN	
Roadway Plan Sheet	8	CITY OF WINCHESTER PROJECT RS14-138-R10	
SCALE 0 25' 50'			
		PROJECT	SHEET NO.
		RS14-138-R10	18(8)

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October, 2014
DESIGN BY Adam, Welschenbach, P.E. - Rinker Design Associates (703) 334-9300
SUBSURFACE UTILITY BY, DATE Matthew, Roaslem - Mid-Atlantic Utility Location (703) 378-0100, August, 2014

**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
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 - (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
 - (E) Type B, Class I, White, 24" Width
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- ↻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- RR Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

Shading Denotes Areas of New Surface Pavement/Concrete

Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

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

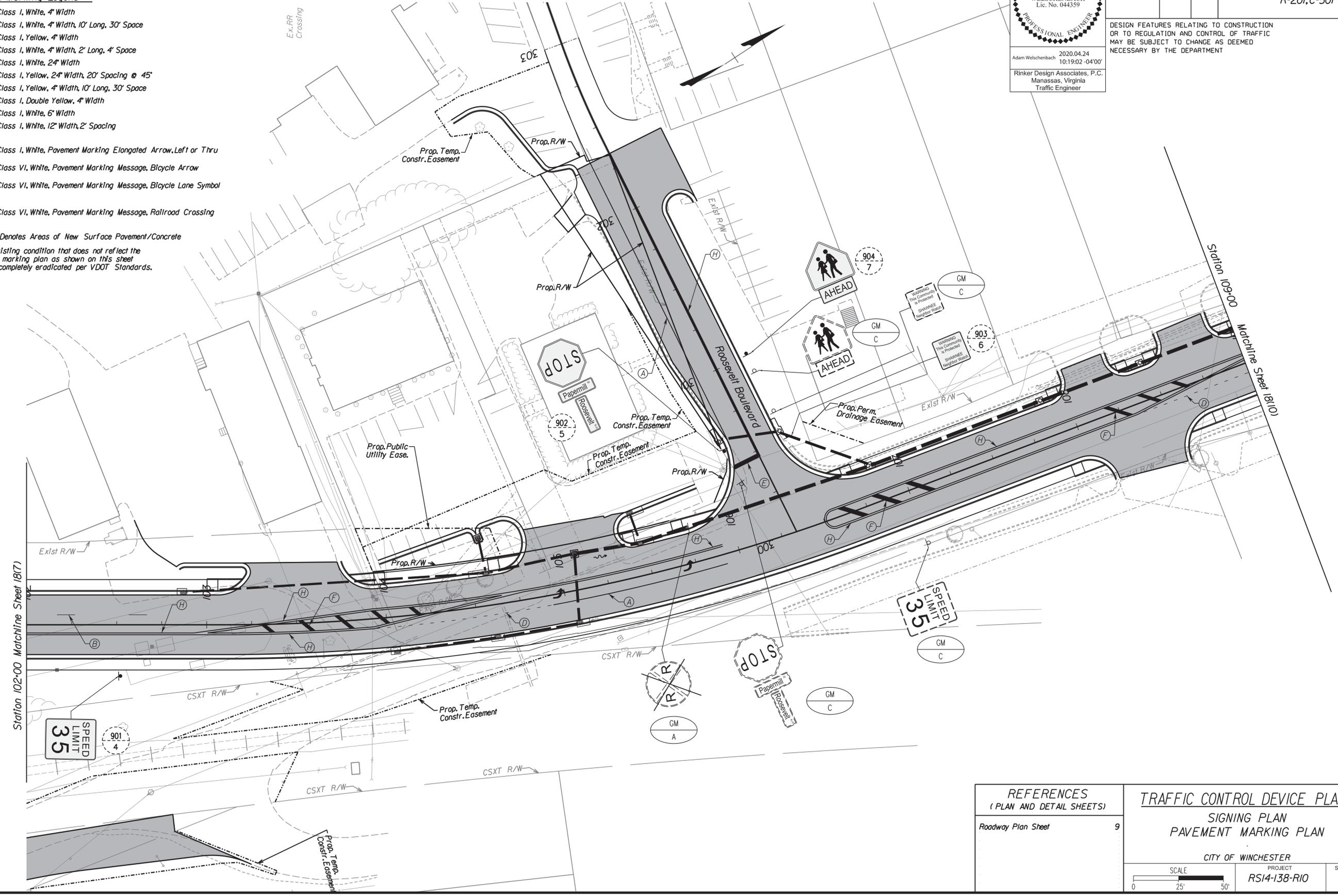
Adam Welschenbach 2020.04.24
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Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10-R-201,C-501	18(9)

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

Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Stormwater - Right of Way Services



REFERENCES (PLAN AND DETAIL SHEETS)		TRAFFIC CONTROL DEVICE PLANS SIGNING PLAN PAVEMENT MARKING PLAN	
Roadway Plan Sheet	9	CITY OF WINCHESTER PROJECT RS14-138-R10	
SCALE 0 25' 50'		SHEET NO. 18(9)	

PROJECT MANAGER *Perry, Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney, Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October, 2014.
 DESIGN BY *Adam, Welschenbach, P.E.* - Rinker Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE *Matthew, Roaslem* - Mid-Atlantic Utility Location (703) 378-0100, August, 2014.

ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

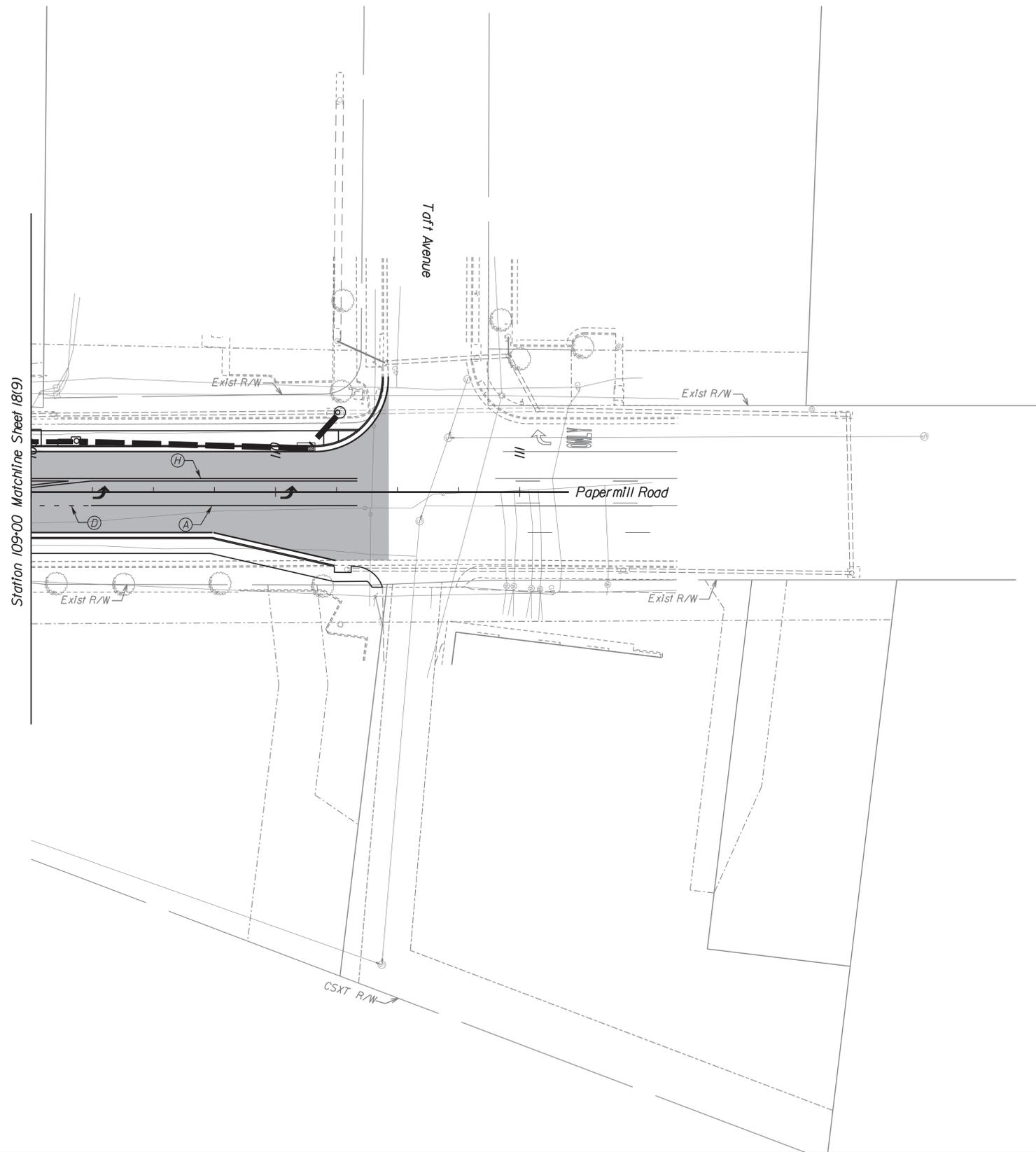
Adam Welschenbach
2019.02.09 12:23:55 -05'00'
Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201,C-501	18(10)

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



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



**** Pavement Marking Legend ****

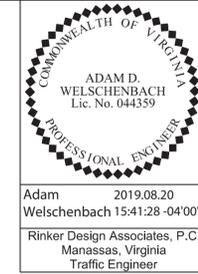
- (A) Type B, Class I, White, 4" Width
 - (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
 - (C) Type B, Class I, Yellow, 4" Width
 - (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
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 - (F) Type B, Class I, Yellow, 2 1/2" Width, 20' Spacing @ 45°
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 - (J) Type B, Class I, White, 6" Width
 - (K) Type B, Class I, White, 12" Width, 2' Spacing
- Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
 - Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
 - Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
 - Type B, Class VI, White, Pavement Marking Message, Railroad Crossing
- Shading Denotes Areas of New Surface Pavement/Concrete

Notes:
1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

REFERENCES (PLAN AND DETAIL SHEETS)		TRAFFIC CONTROL DEVICE PLANS SIGNING PLAN PAVEMENT MARKING PLAN	
Roadway Plan Sheet	10	CITY OF WINCHESTER	
		SCALE 	PROJECT RS14-138-R10
			SHEET NO. 18(10)

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker, Design Associates (703) 368-7373, October, 2014.
 DESIGN BY Adam, Welschenbach, P.E. - Rinker, Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, - Mid-Atlantic Utility Location (703) 378-0100, August, 2014.

Station 520+50 Matchline Sheet 18(13)



REVISED 02-21-2018	STATE VA.	ROUTE	STATE PROJECT RS14-138-R10 R-201,C-501	SHEET NO. 18(11)
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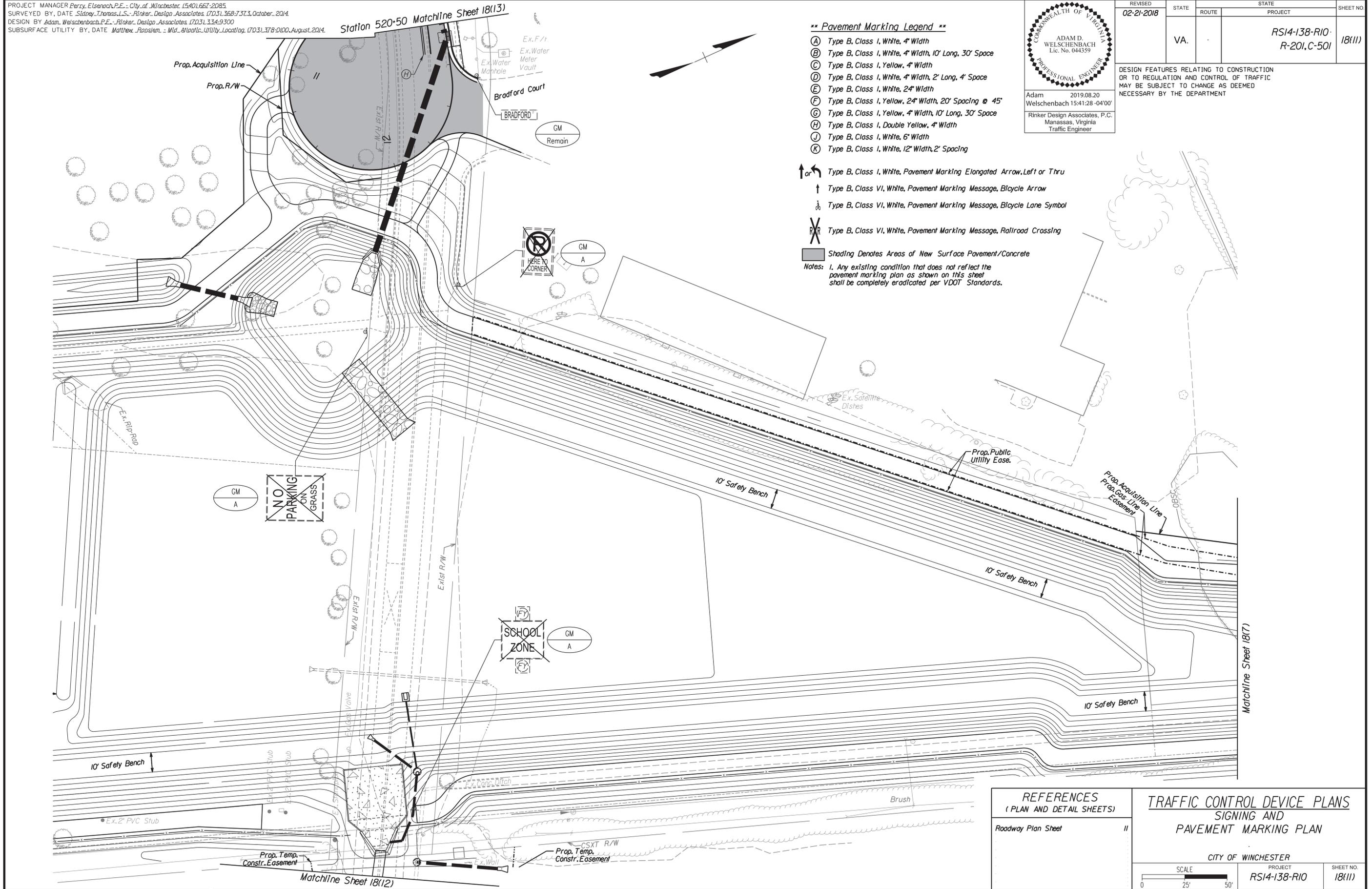
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
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- ↑ or ↖ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- ↻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- ✕ Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

Shading Denotes Areas of New Surface Pavement/Concrete
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REFERENCES (PLAN AND DETAIL SHEETS)	
Roadway Plan Sheet	11

**TRAFFIC CONTROL DEVICE PLANS
SIGNING AND
PAVEMENT MARKING PLAN**

CITY OF WINCHESTER

PROJECT: RS14-138-R10

SCALE: 0 25' 50'

SHEET NO. 18(11)

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

PROJECT MANAGER *Perry, Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney, Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October, 2014.
 DESIGN BY *Adam, Welschenbach, P.E.* - Rinker Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE *Matthew, Roaslem.* - Mid-Atlantic Utility Location (703) 378-0100, August, 2014.

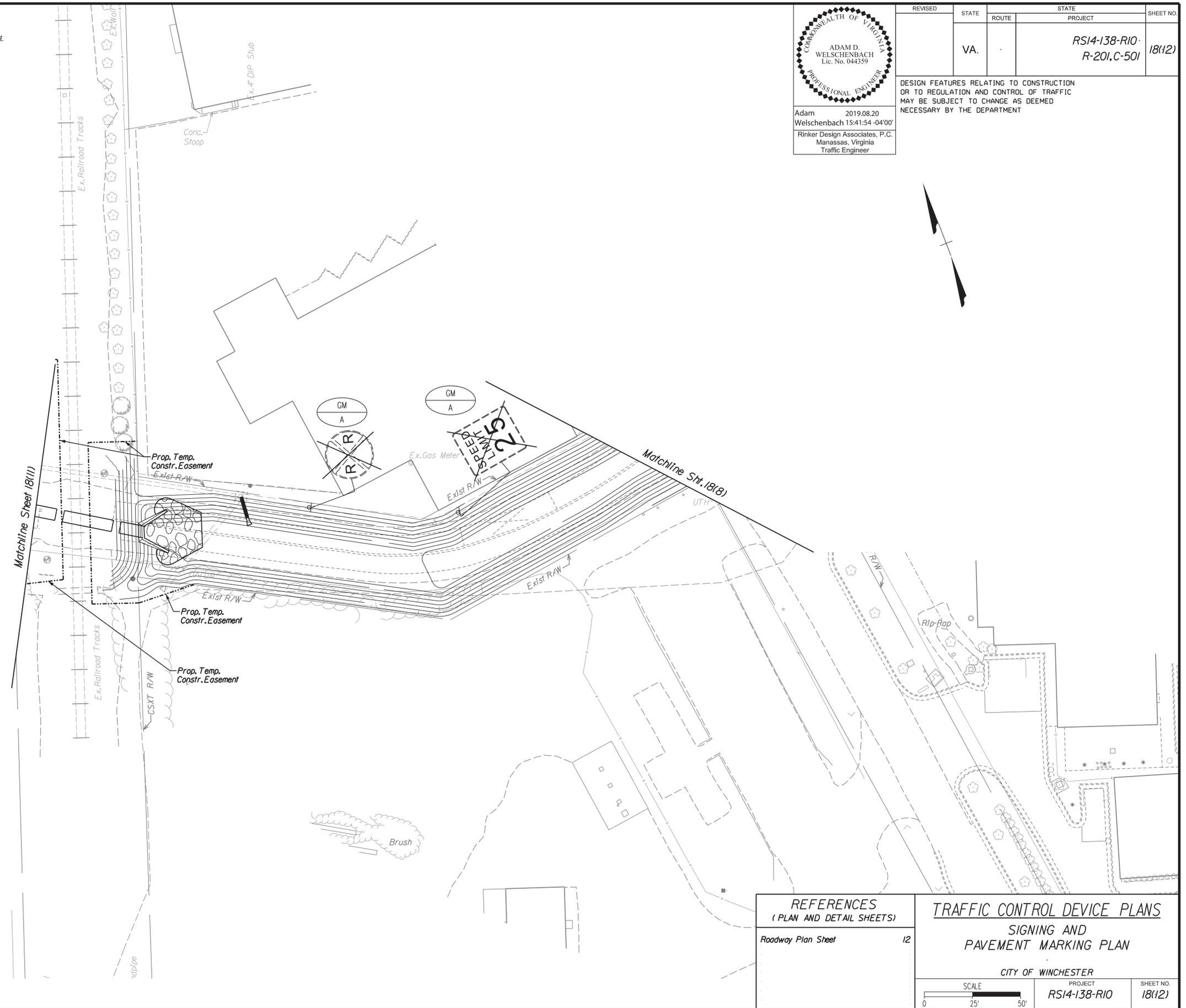
COMMONWEALTH OF VIRGINIA
 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER

Adam 2019.08.20
 Welschenbach 15:41:54 -04'00"
 Rinker Design Associates, P.C.
 Manassas, Virginia
 Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10-R-201,C-501	18(12)

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

Rinker
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Environmental • Right of Way Services
 Office Locations: Manassas, VA • Fairfax, VA • Herndon, VA • Reston, VA • Washington, DC • Loudoun County, VA • Loudoun County, VA • Loudoun County, VA



**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (C) Type B, Class I, Yellow, 4" Width
- (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (E) Type B, Class I, White, 24" Width
- (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45°
- (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
- (H) Type B, Class I, Double Yellow, 4" Width
- (J) Type B, Class I, White, 6" Width
- (K) Type B, Class I, White, 12" Width, 2' Spacing

- ↑ or ↖ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- 🚲 Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- R/R Type B, Class VI, White, Pavement Marking Message, Railroad Crossing
- Shading Denotes Areas of New Surface Pavement/Concrete

Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

REFERENCES (PLAN AND DETAIL SHEETS) Roadway Plan Sheet 12		TRAFFIC CONTROL DEVICE PLANS SIGNING AND PAVEMENT MARKING PLAN CITY OF WINCHESTER PROJECT RS14-138-R10	
SCALE 0 25' 50'		SHEET NO. 18(12)	

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY, DATE Sidney, Thomas, L.S. - Rinker, Design Associates (703) 368-7373, October, 2014
 DESIGN BY Adam, Welschenbach, P.E. - Rinker, Design Associates (703) 334-9300
 SUBSURFACE UTILITY BY, DATE Matthew, Roaslem, - Mid-Atlantic Utility, Location (703) 378-0100, August, 2014

Adam D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam Welschenbach
2019.02.09 12:22:56 -05'00'
Rinker Design Associates, P.C.
Manassas, Virginia
Traffic Engineer

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10- R-201,C-501	18(13)

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

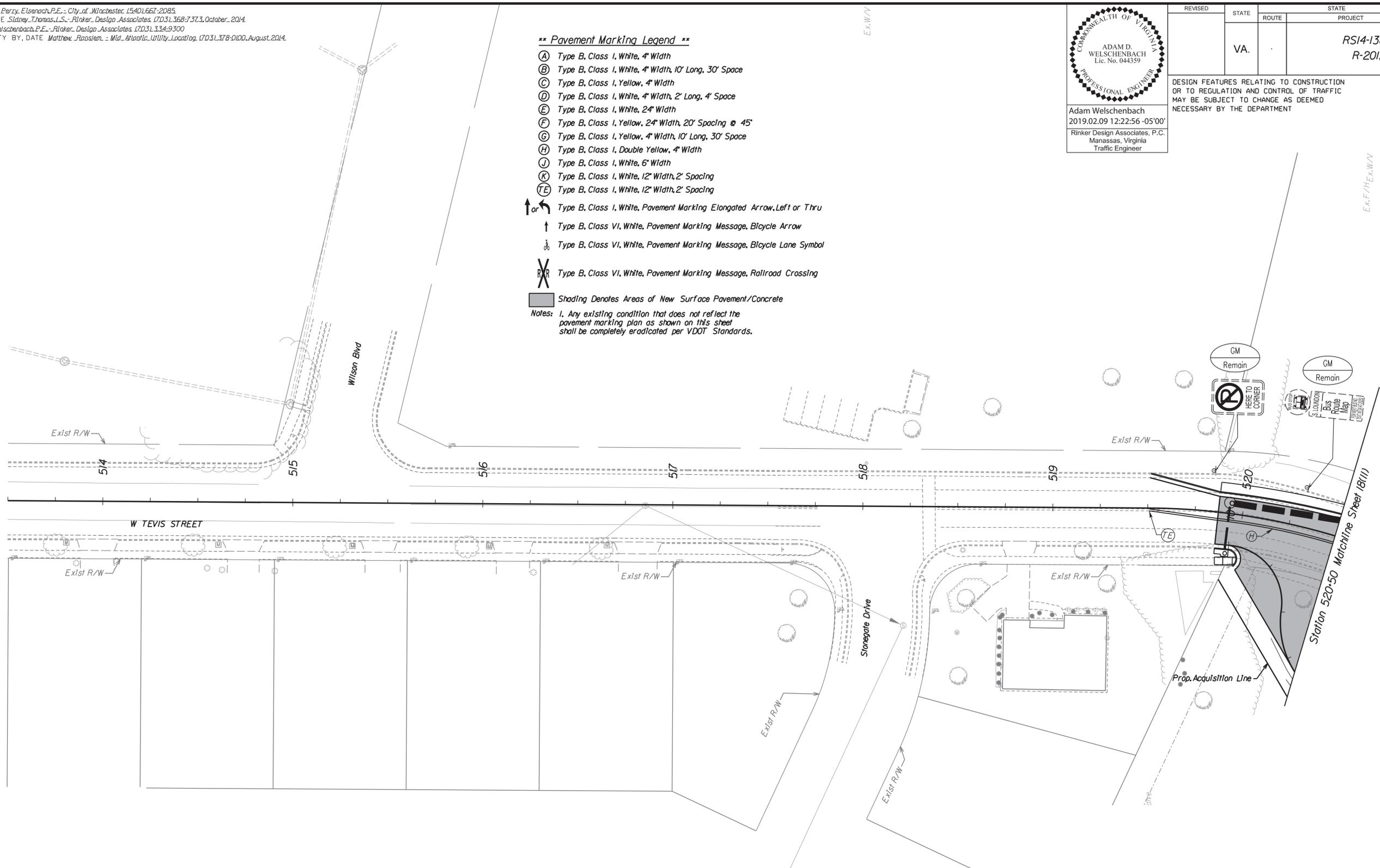
**** Pavement Marking Legend ****

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (C) Type B, Class I, Yellow, 4" Width
- (D) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (E) Type B, Class I, White, 24" Width
- (F) Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45°
- (G) Type B, Class I, Yellow, 4" Width, 10' Long, 30' Space
- (H) Type B, Class I, Double Yellow, 4" Width
- (J) Type B, Class I, White, 6" Width
- (K) Type B, Class I, White, 12" Width, 2' Spacing
- (TE) Type B, Class I, White, 12" Width, 2' Spacing
- ↑ or ↖ Type B, Class I, White, Pavement Marking Elongated Arrow, Left or Thru
- ↑ Type B, Class VI, White, Pavement Marking Message, Bicycle Arrow
- ↻ Type B, Class VI, White, Pavement Marking Message, Bicycle Lane Symbol
- X/R Type B, Class VI, White, Pavement Marking Message, Railroad Crossing

Shading Denotes Areas of New Surface Pavement/Concrete

Notes: 1. Any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards.

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



REFERENCES (PLAN AND DETAIL SHEETS)		TRAFFIC CONTROL DEVICE PLANS SIGNING AND PAVEMENT MARKING PLAN	
Roadway Plan Sheet	13	CITY OF WINCHESTER PROJECT RS14-138-R10	
SCALE 0 25' 50'		PROJECT	SHEET NO.
		RS14-138-R10	18(13)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Banslem, Mid-Atlantic Utility Locating (703) 378-0100, August 2014

Water & Sanitary Sewer Relocation Plan

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

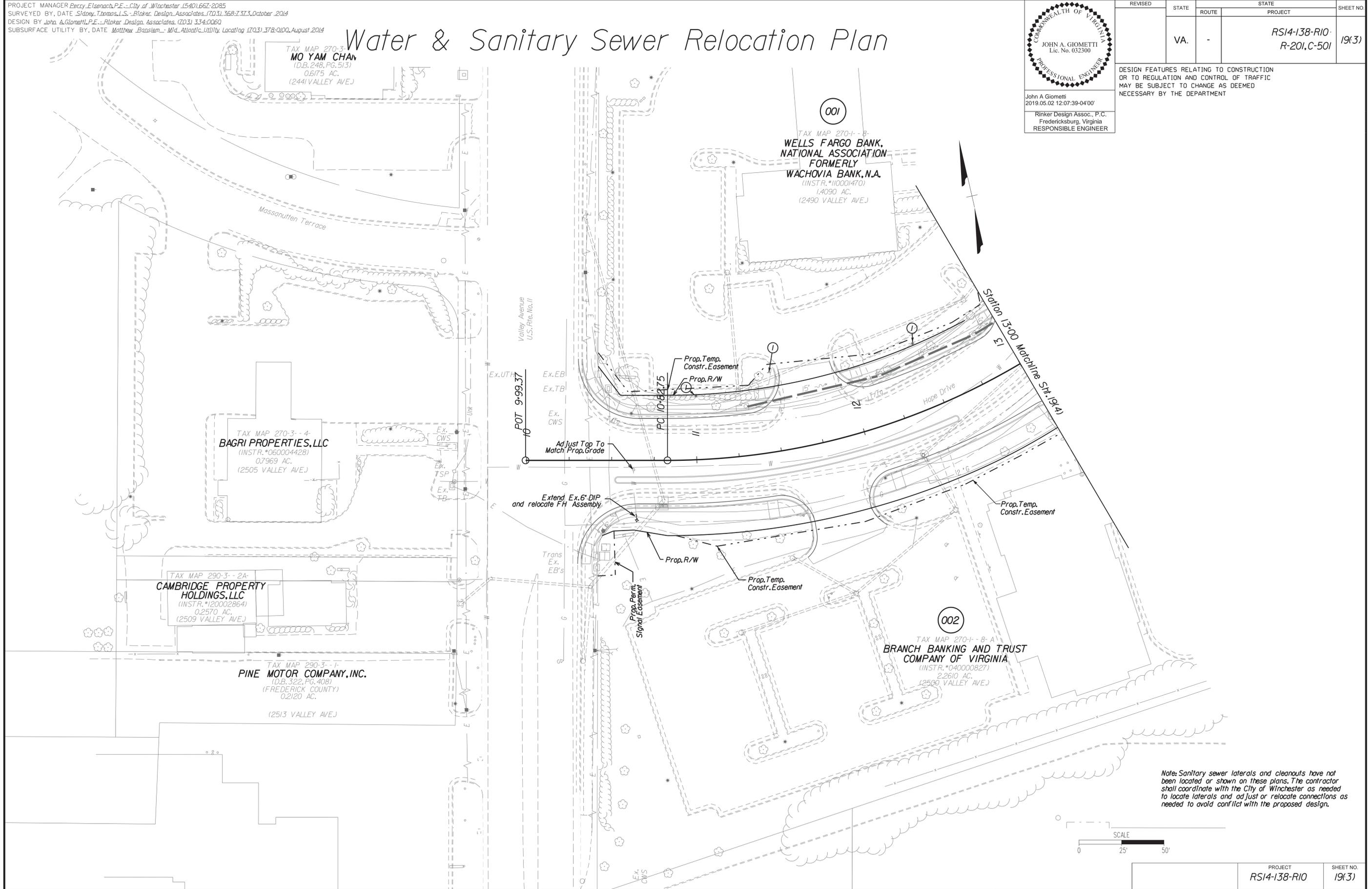
John A. Giometti
 2019.05.02 12:07:39-04'00"

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	-	RS14-138-R10- R-201,C-501		19(3)

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

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



Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.



PROJECT	SHEET NO.
RS14-138-R10	19(3)

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

Water & Sanitary Sewer Relocation Plan

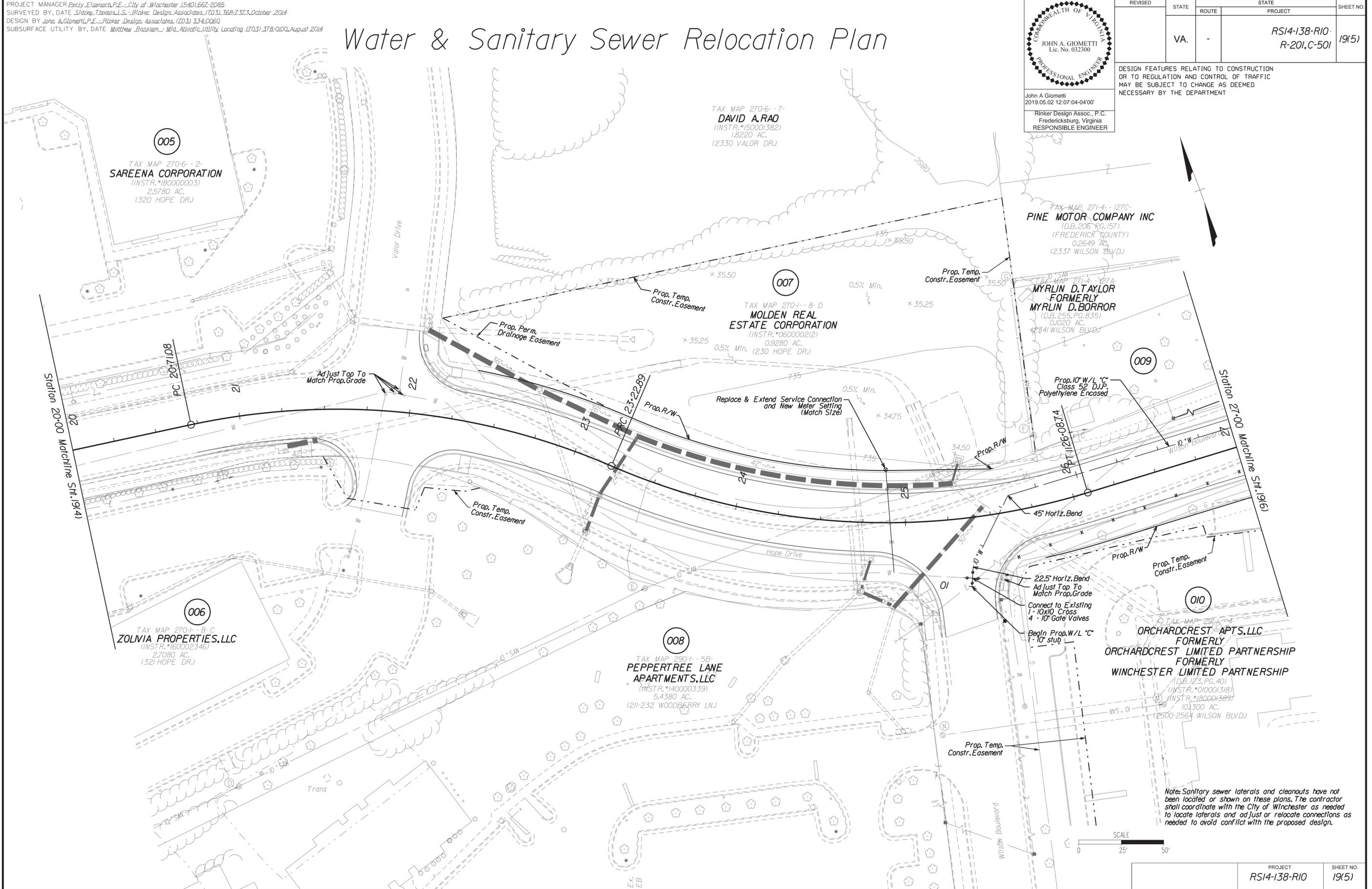
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2019.05.02 12:07:04-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	19(5)

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

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



005
 TAX MAP 270-6-2-
SAREENA CORPORATION
 (INSTR. #180000003)
 2.5780 AC.
 (320 HOPE DR.)

TAX MAP 270-6-7-
DAVID A. RAO
 (INSTR. #150001382)
 1.8220 AC.
 (2330 VALOR DR.)

TAX MAP 271-4-127C-
PINE MOTOR COMPANY INC
 (D.B. 206 PG. 157)
 (FREDERICK COUNTY)
 0.2649 AC.
 (2337 WILSON BLVD.)

TAX MAP 270-1-8-D
MOLDEN REAL ESTATE CORPORATION
 (INSTR. #060000212)
 0.9280 AC.
 (230 HOPE DR.)

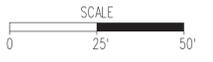
TAX MAP 271-4-127A
MYRLIN D. TAYLOR FORMERLY MYRLIN D. BORROR
 (D.B. 255 PG. 835)
 0.020 AC.
 (2341 WILSON BLVD.)

006
 TAX MAP 270-1-8-C
ZOLVIA PROPERTIES, LLC
 (INSTR. #160002346)
 2.7080 AC.
 (321 HOPE DR.)

TAX MAP 290-1-5B-
PEPPERTREE LANE APARTMENTS, LLC
 (INSTR. #140000339)
 5.4380 AC.
 (211-232 WOODBERRY LN.)

TAX MAP 291-6-4
ORCHARDCREST APTS, LLC FORMERLY ORCHARDCREST LIMITED PARTNERSHIP FORMERLY WINCHESTER LIMITED PARTNERSHIP
 (D.B. 123 PG. 40)
 (INSTR. #010001318)
 (INSTR. #180001388)
 10,300 AC.
 (2500-2564 WILSON BLVD.)

Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.



PROJECT	SHEET NO.
RS14-138-R10	19(5)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
SUBSURFACE UTILITY BY DATE Matthew Braslem, Mid-Atlantic Utility Locating (703) 378-0100, August 2014

Water & Sanitary Sewer Relocation Plan

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

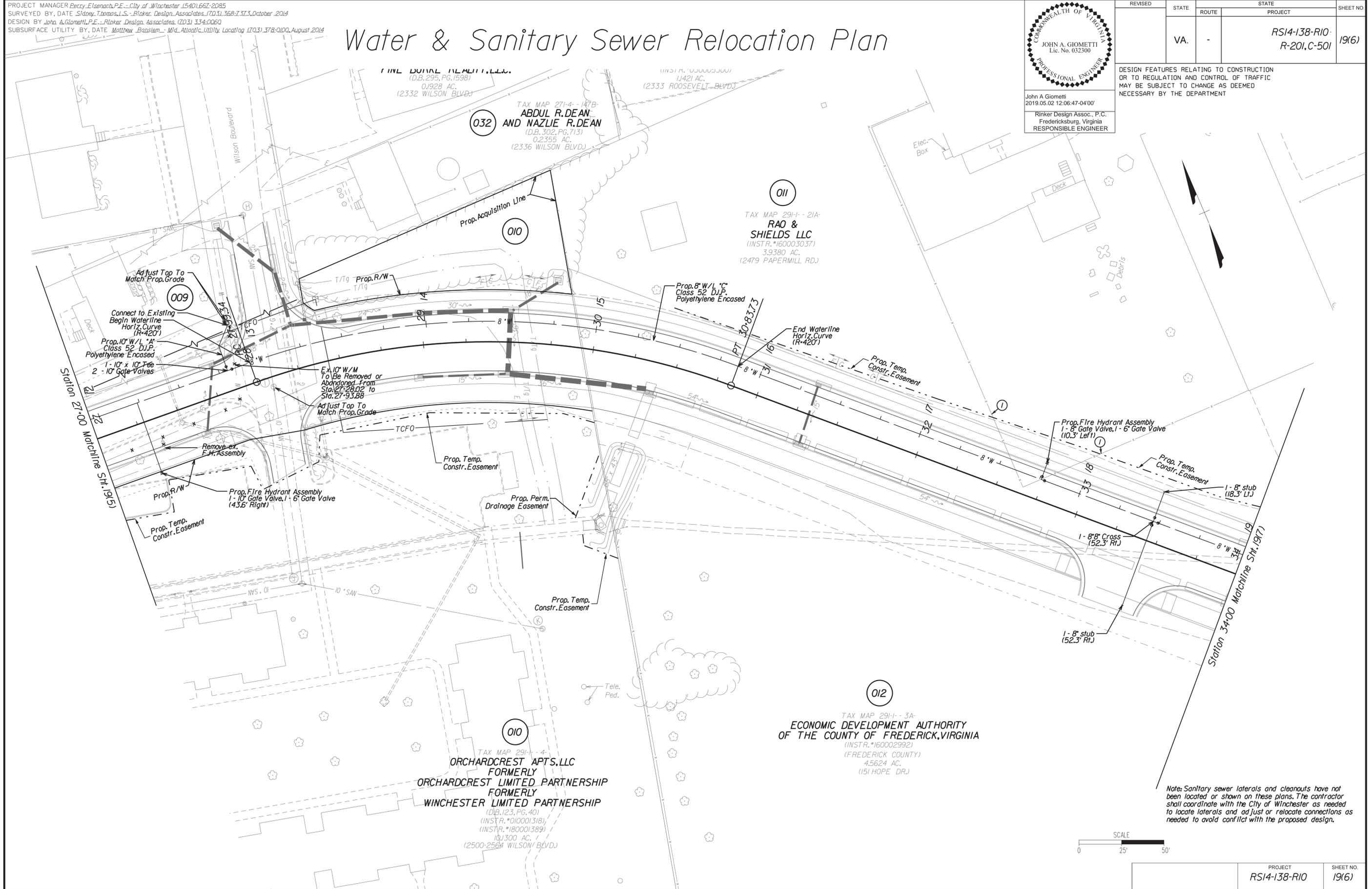
John A. Giometti
 2019.05.02 12:06:47-04'00"

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	19(6)

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

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



Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.

PROJECT	SHEET NO.
RS14-138-R10	19(6)

Matchline This Sheet

PROJECT MANAGER *Barry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

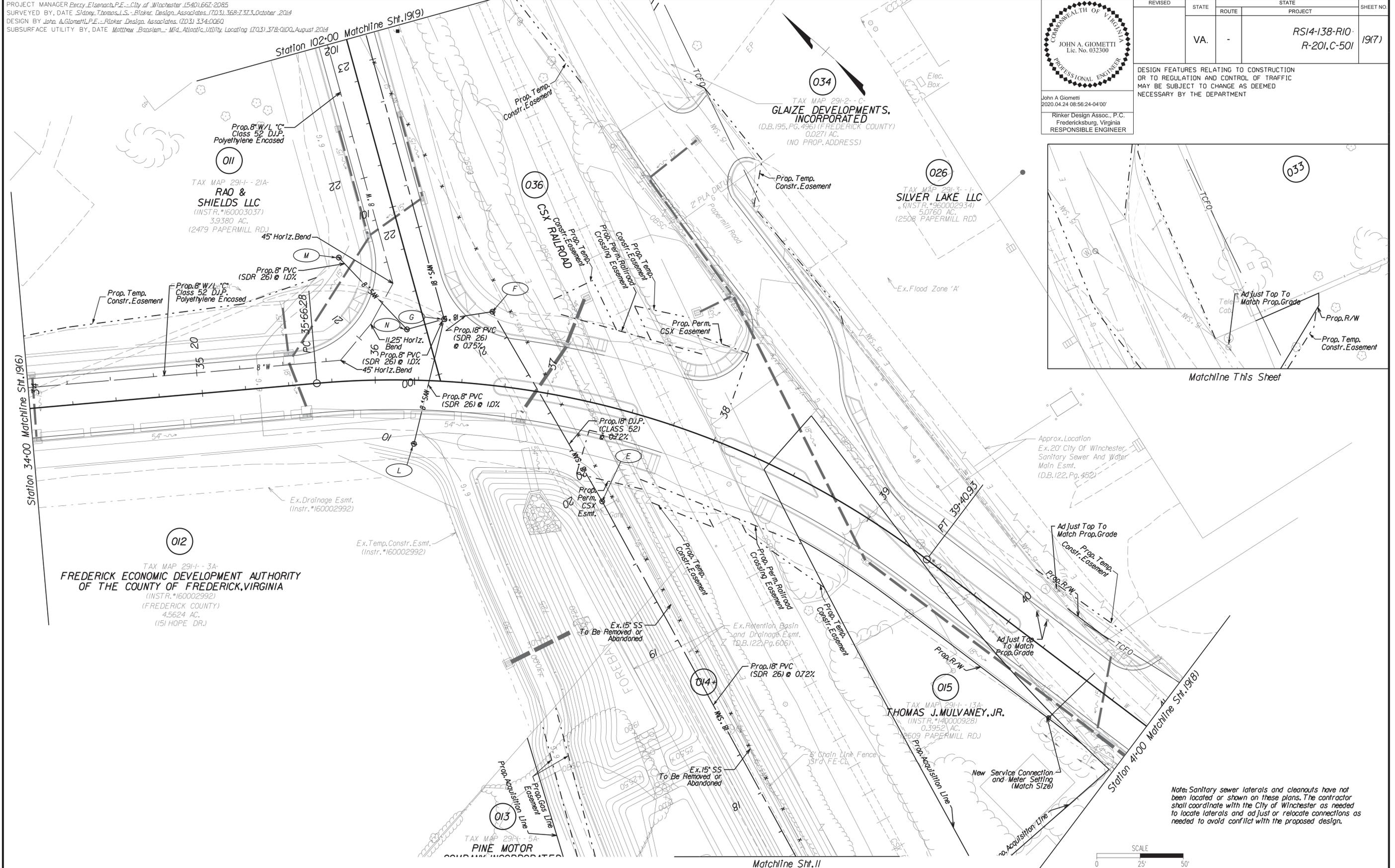
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2020.04.24 08:56:24-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10 R-201,C-501	19(7)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Old Dominion Blvd., Suite 1000
 Fairfax, VA 22030
 (703) 334-0060
 10000 Old Dominion Blvd., Suite 1000
 Fairfax, VA 22030
 (703) 334-0060
 10000 Old Dominion Blvd., Suite 1000
 Fairfax, VA 22030
 (703) 334-0060



Matchline This Sheet

Approx. Location
 Ex. 20' City Of Winchester
 Sanitary Sewer And Water
 Main Esmt.
 (D.B. 122, Pg. 452)

Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.



Water & Sanitary Sewer Relocation Plan

PROJECT	SHEET NO.
RS14-138-R10	19(7)

PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Baslem, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

Water & Sanitary Sewer Relocation Plan

Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.

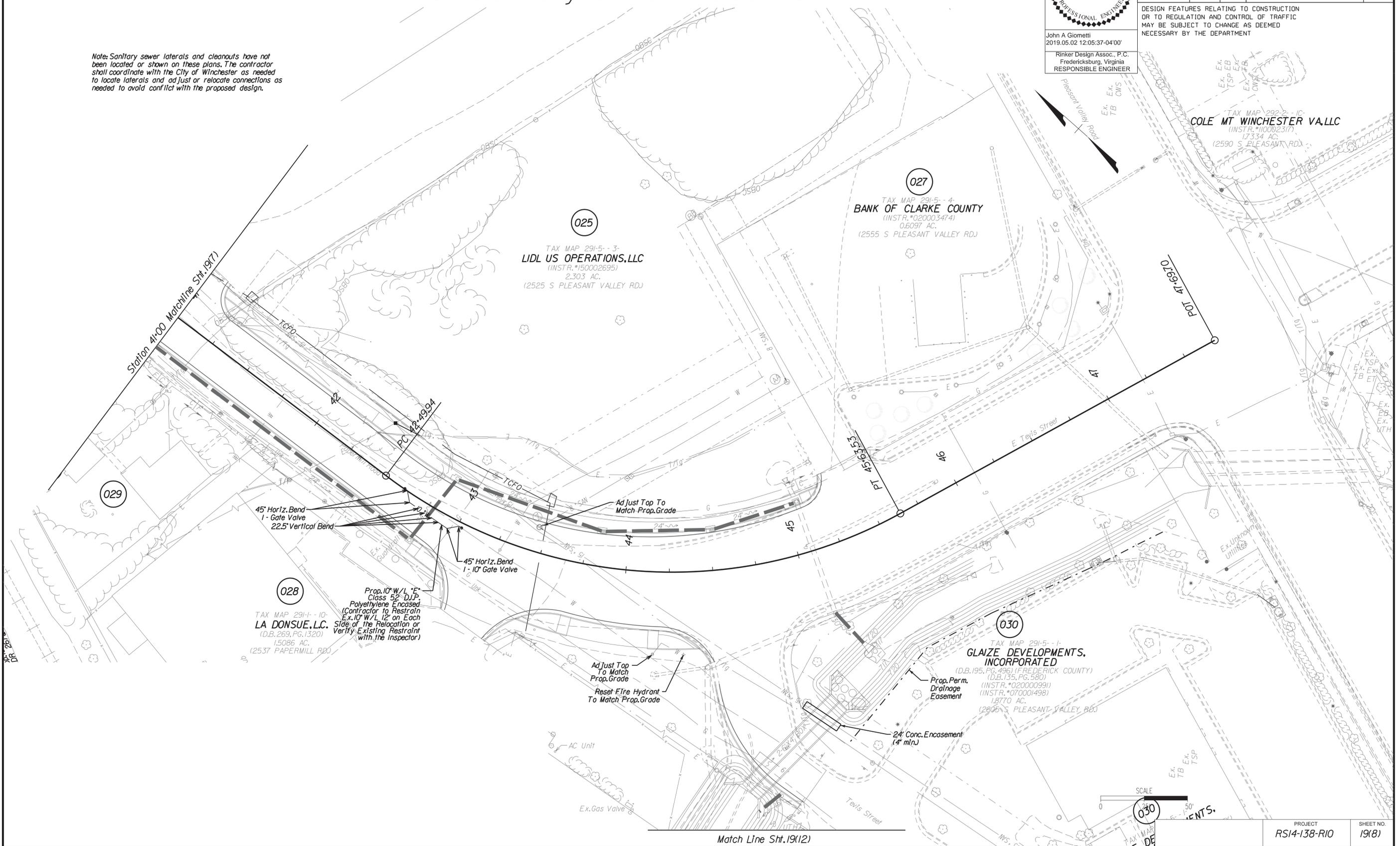
John A. Giometti
2019.05.02 12:05:37-04'00"

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	19(8)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000
 10000 Westpark Drive, Suite 100
 Dallas, TX 75243
 972-416-1000



Match Line Sht. 19(12)

PROJECT	SHEET NO.
RS14-138-R10	19(8)

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Basilewicz, M.D.* - *Atlantic Utility Locating* (703) 378-0100, August 2014

Water & Sanitary Sewer Relocation Plan

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

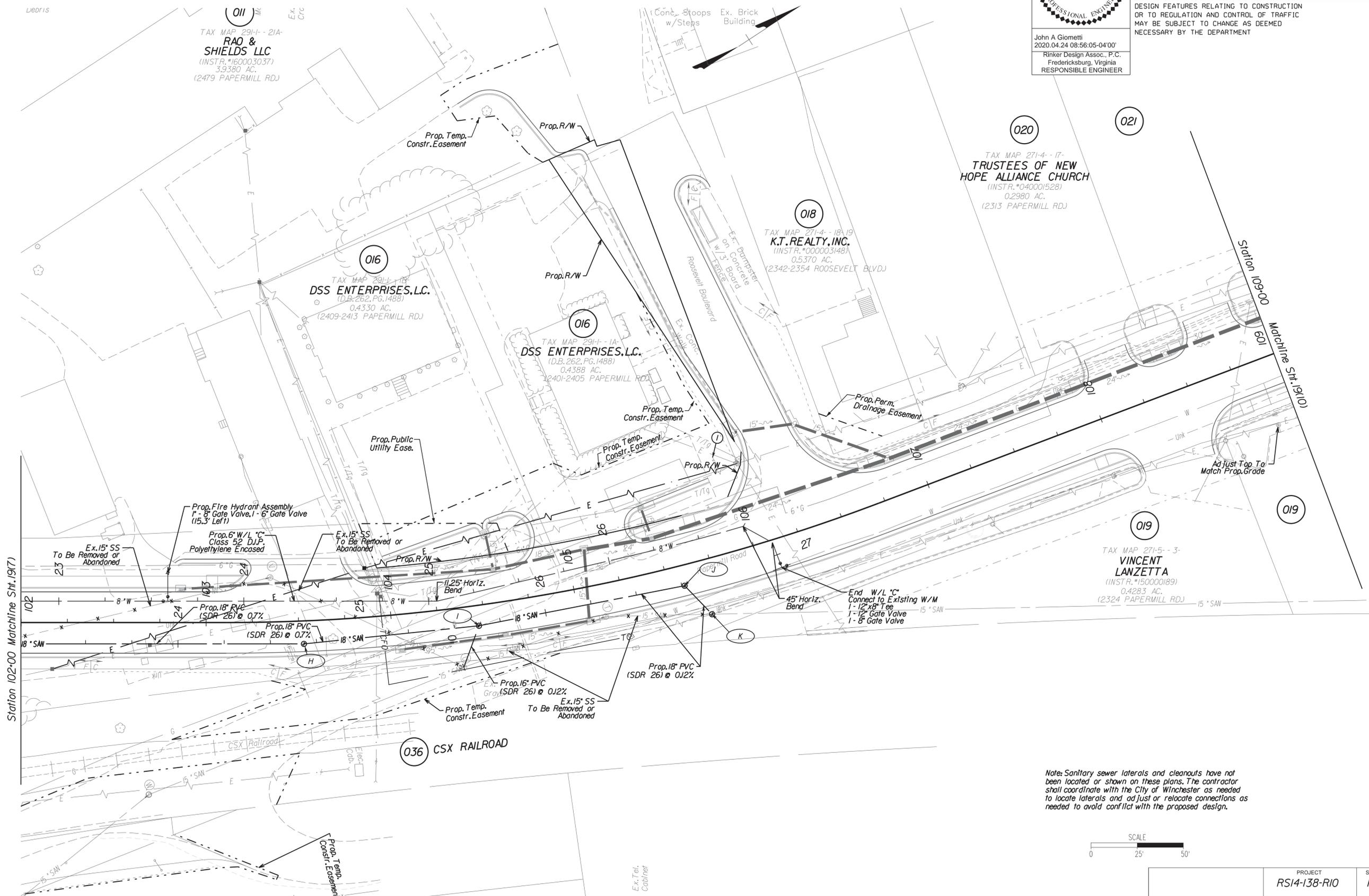
John A. Giometti
 2020.04.24 08:56:05-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	19(9)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Westpark Drive, Suite 100
 Raleigh, NC 27615
 Phone: (919) 871-1100
 Fax: (919) 871-1101
 www.rinker.com

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



Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.



PROJECT	SHEET NO.
RS14-138-R10	19(9)

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

031 TAX MAP 311-I - 20-
SCHOOL BOARD OF THE CITY OF WINCHESTER
 (D.B. 221, PG. 371)
 17,2520 AC.
 (100 W CEDERMEADE AVE.)

REVISIONS

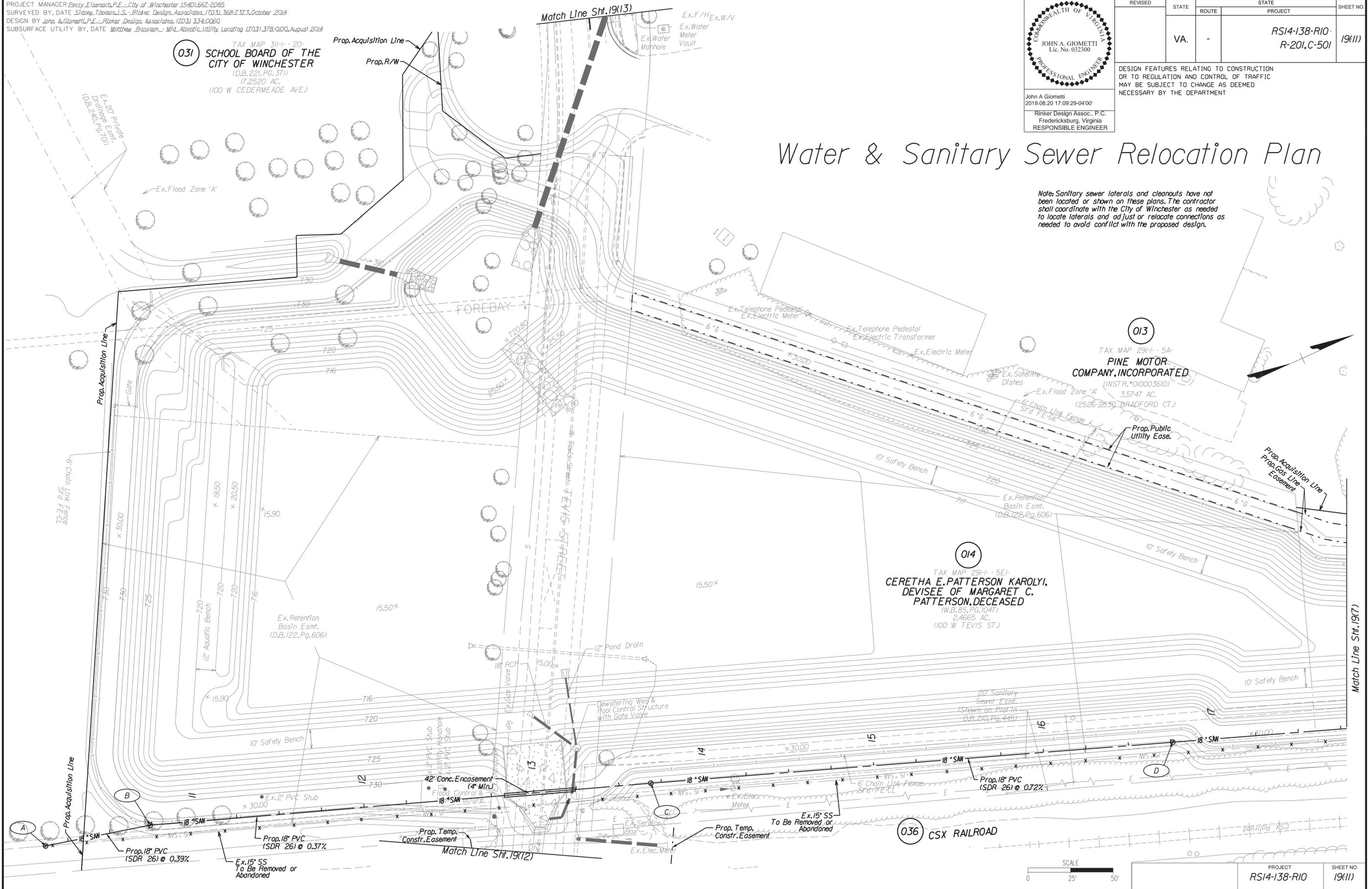
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	19(11)

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

John A. Giometti
 2019.08.20 17:09:29-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

Water & Sanitary Sewer Relocation Plan

Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.



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



PROJECT	SHEET NO.
RS14-138-R10	19(11)

PROJECT MANAGER *Ecory, Eisenach, P.E. - City of Winchester (540) 667-2085*
 SURVEYED BY, DATE *Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014*
 DESIGN BY *John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060*
 SUBSURFACE UTILITY BY, DATE *Matthew Basilew - Mid-Atlantic Utility Locating (703) 378-0100, August 2014*

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

John A. Giometti
 2019.08.20 17:08:58-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

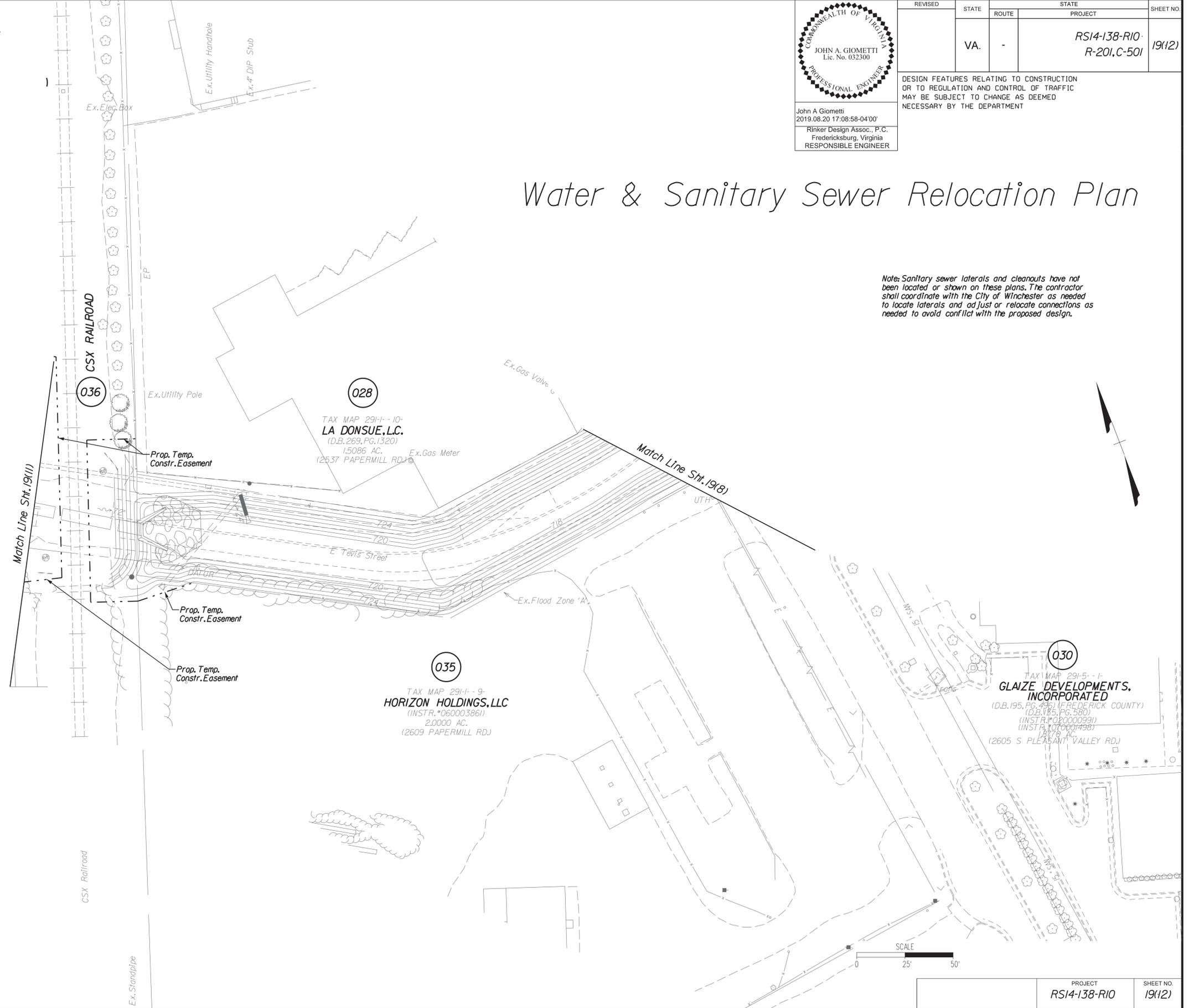
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	19(12)

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

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

Water & Sanitary Sewer Relocation Plan

Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.



PROJECT	SHEET NO.
RS14-138-R10	19(12)

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew, Basilewicz, M.D. - Atlantic Utility Locating (703) 378-0100, August 2014

Water & Sanitary Sewer Relocation Plan

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

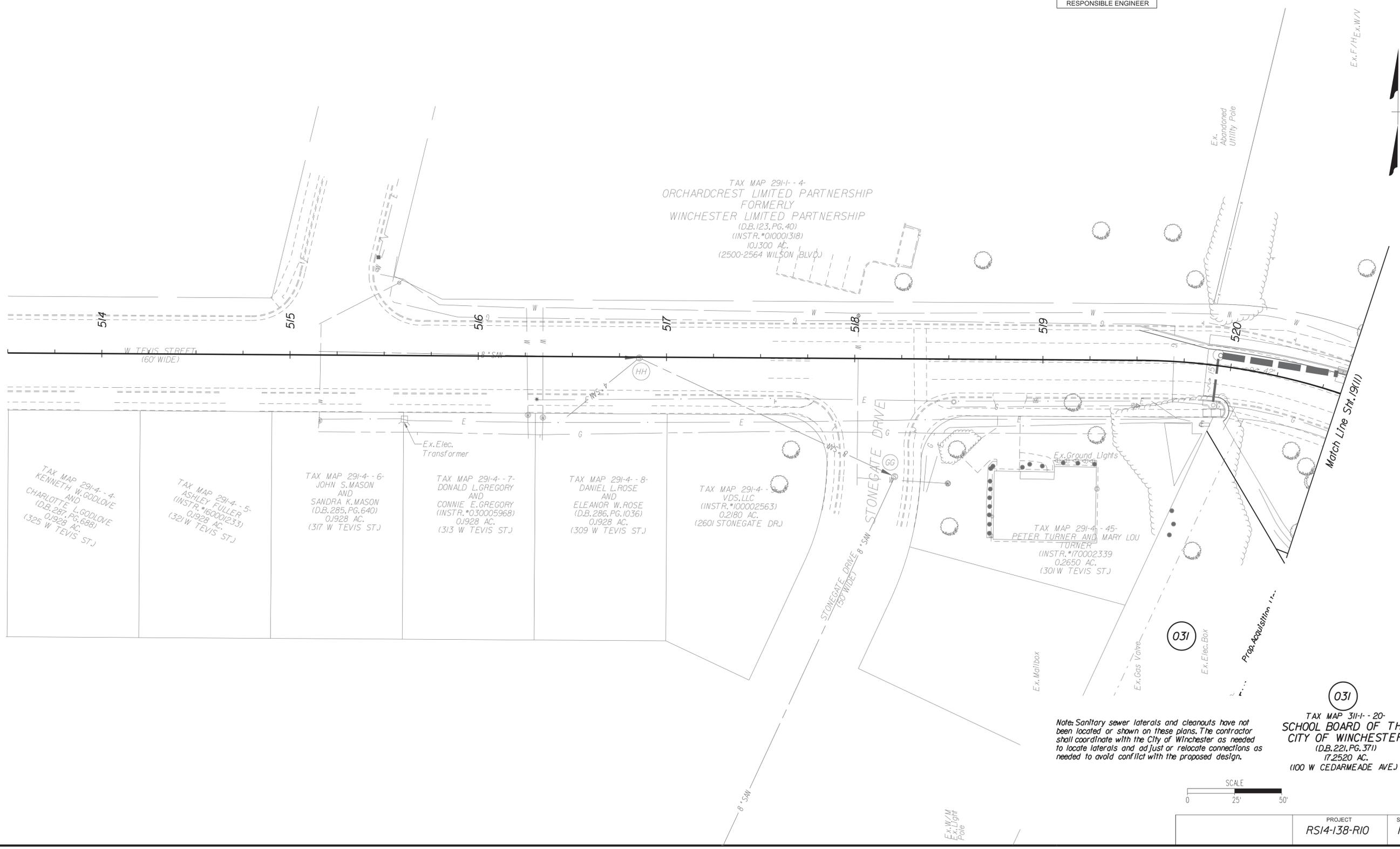
John A. Giometti
 2019.05.02 12:02:18-04'00"

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	-	RS14-138-R10- R-201,C-501	19(13)

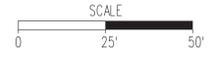
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Stormwater Management • Right-of-Way Services



Note: Sanitary sewer laterals and cleanouts have not been located or shown on these plans. The contractor shall coordinate with the City of Winchester as needed to locate laterals and adjust or relocate connections as needed to avoid conflict with the proposed design.

TAX MAP 311-1-20-
 SCHOOL BOARD OF THE
 CITY OF WINCHESTER
 (D.B. 221, PG. 371)
 17,2520 AC.
 (100 W CEDARMEADE AVE.)



PROJECT	SHEET NO.
RS14-138-R10	19(13)

PROJECT MANAGER *Barry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giometti, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - Mid-Atlantic Utility Location (703) 378-0100, August 2014

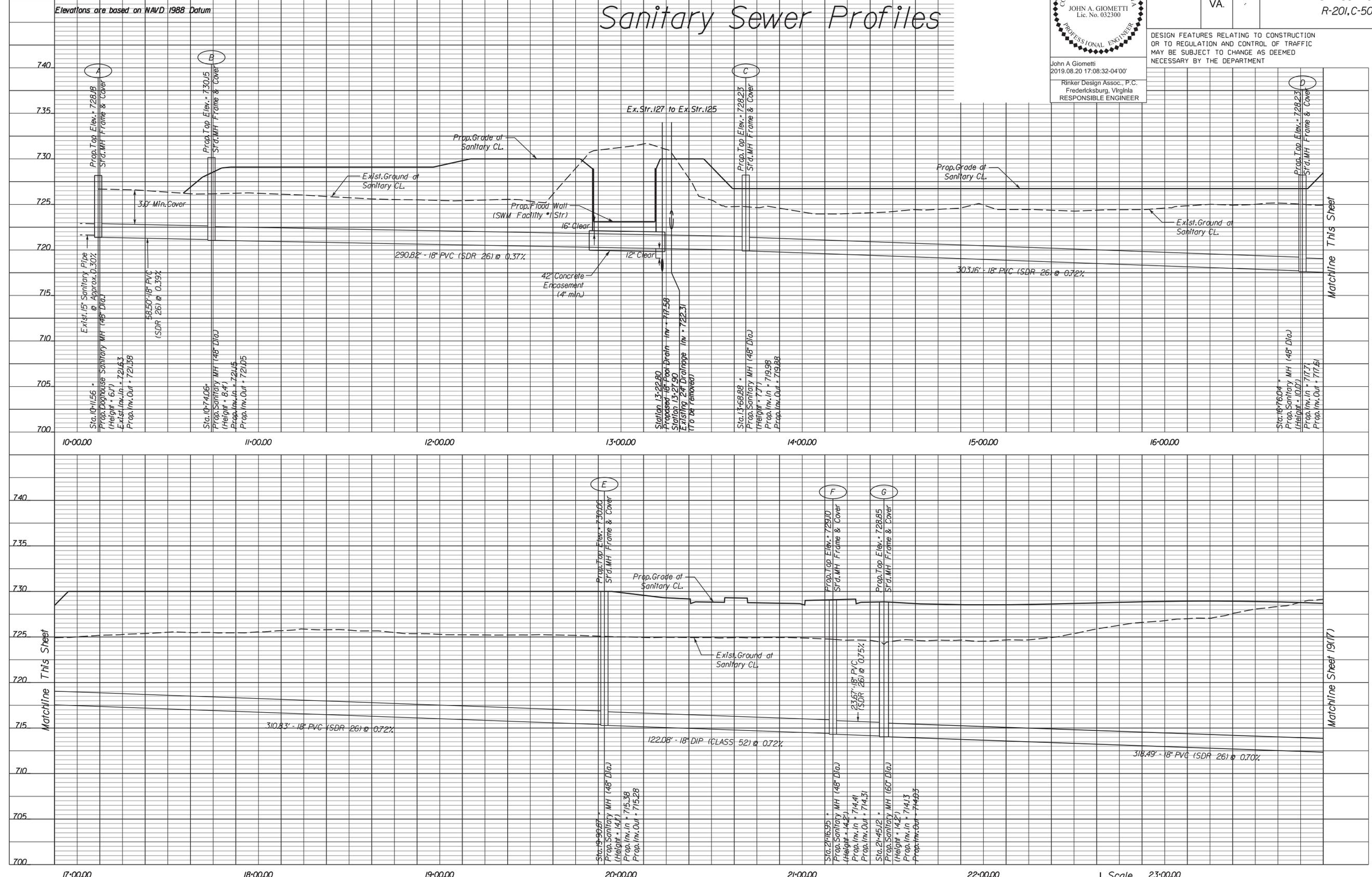
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER
 John A. Giometti
 2019.08.20 17:08:32-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.			RS14-138-R10-R-201,C-501	19(16)

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

Office Locations
 Rinker Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Environmental Engineering - Transportation Engineering - Right of Way Services
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030
 10000 Old Dominion Blvd., Suite 1000, Fairfax, VA 22030

Sanitary Sewer Profiles



2.5' Scale
25'

PROJECT MANAGER Perry Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giometti, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Ranslem - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

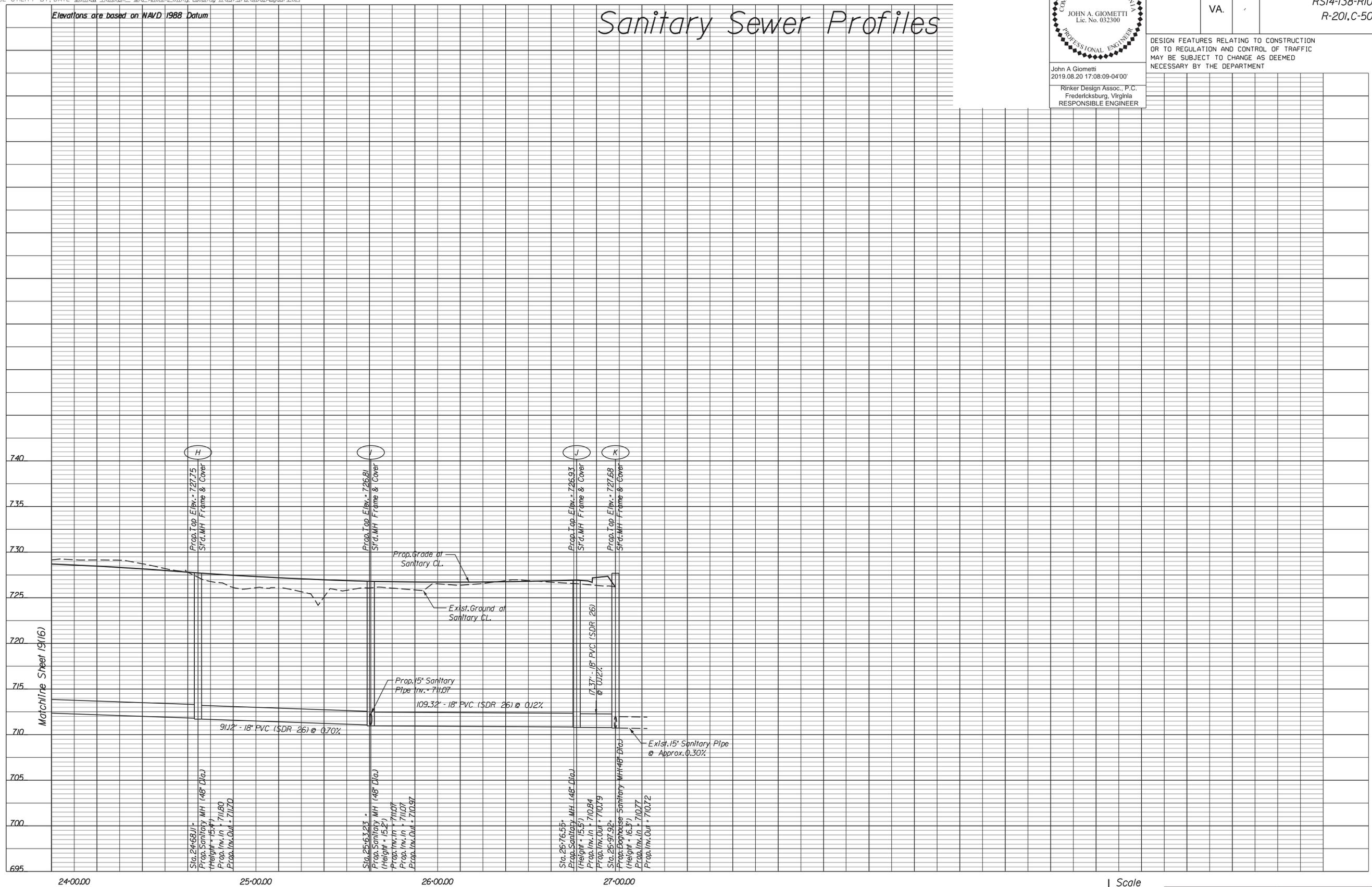
John A. Giometti
 2019.08.20 17:08:09-04'00"
 Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 RESPONSIBLE ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.		RS14-138-R10 R-201,C-501	19(17)

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

Sanitary Sewer Profiles

Elevations are based on NAVD 1988 Datum



2.5' Scale
25'

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

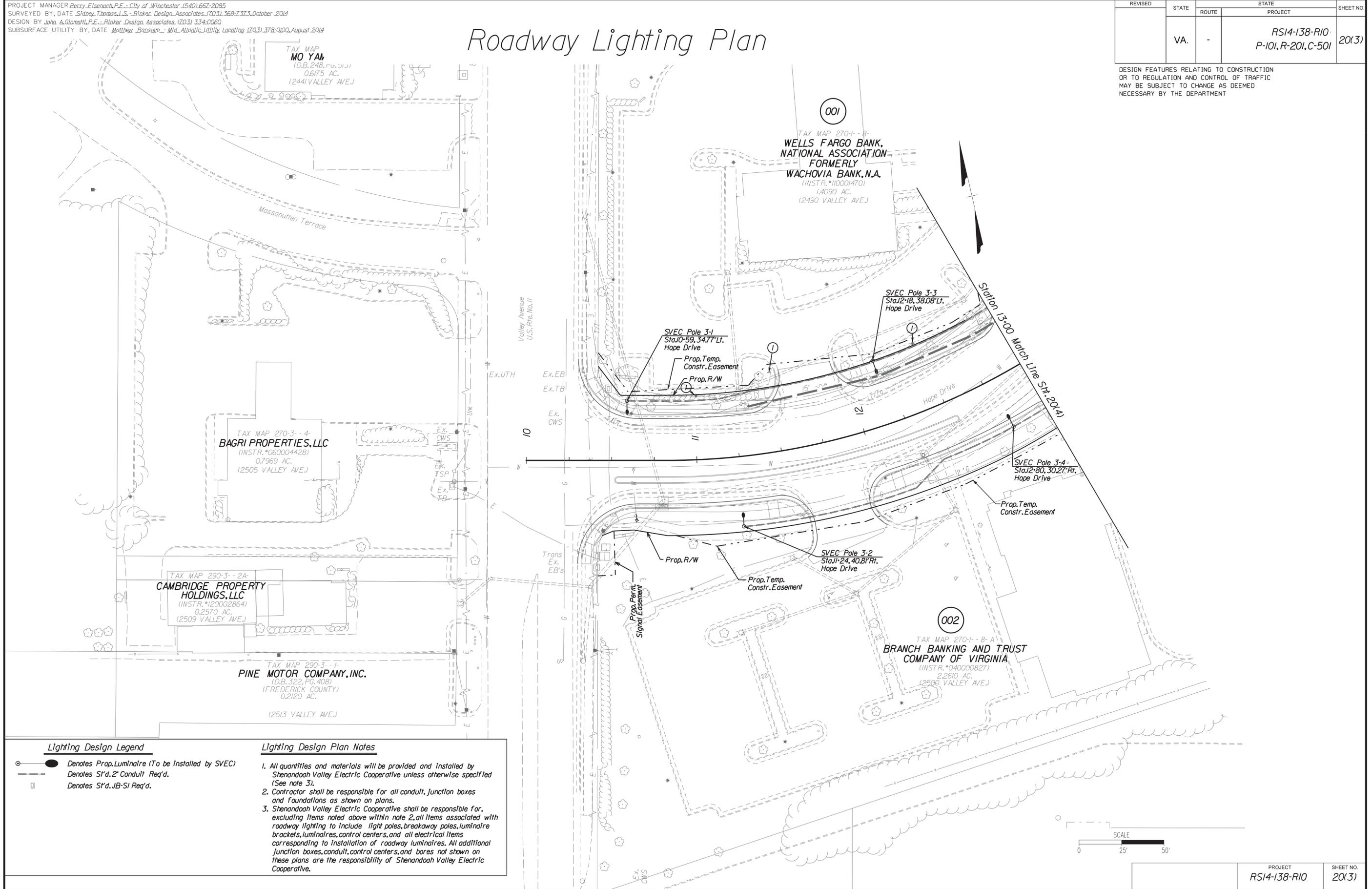
PROJECT MANAGER *Perry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mtd. Atlantic Utility Locating* (703) 378-0100, August 2014

Roadway Lighting Plan

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	RS14-138-R10-P-101, R-201, C-501	20(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.
 Civil Engineering • Surveying • Land Planning
 Transportation • Stormwater Management • Right-of-Way Services
 10000 Old Dominion Blvd., Suite 200, Fairfax, VA 22031
 Phone: (703) 334-0060
 Fax: (703) 334-0061
 www.rinker.com



Lighting Design Legend

- Denotes Prop. Luminaire (To be Installed by SVEC)
- Denotes 1" x 2" Conduit Req'd.
- Denotes 1" x 1" JB-SI Req'd.

Lighting Design Plan Notes

1. All quantities and materials will be provided and installed by Shenandoah Valley Electric Cooperative unless otherwise specified (See note 3).
2. Contractor shall be responsible for all conduit, junction boxes and foundations as shown on plans.
3. Shenandoah Valley Electric Cooperative shall be responsible for, excluding items noted above within note 2, all items associated with roadway lighting to include light poles, breakaway poles, luminaire brackets, luminaires, control centers, and all electrical items corresponding to installation of roadway luminaires. All additional junction boxes, conduit, control centers, and boxes not shown on these plans are the responsibility of Shenandoah Valley Electric Cooperative.

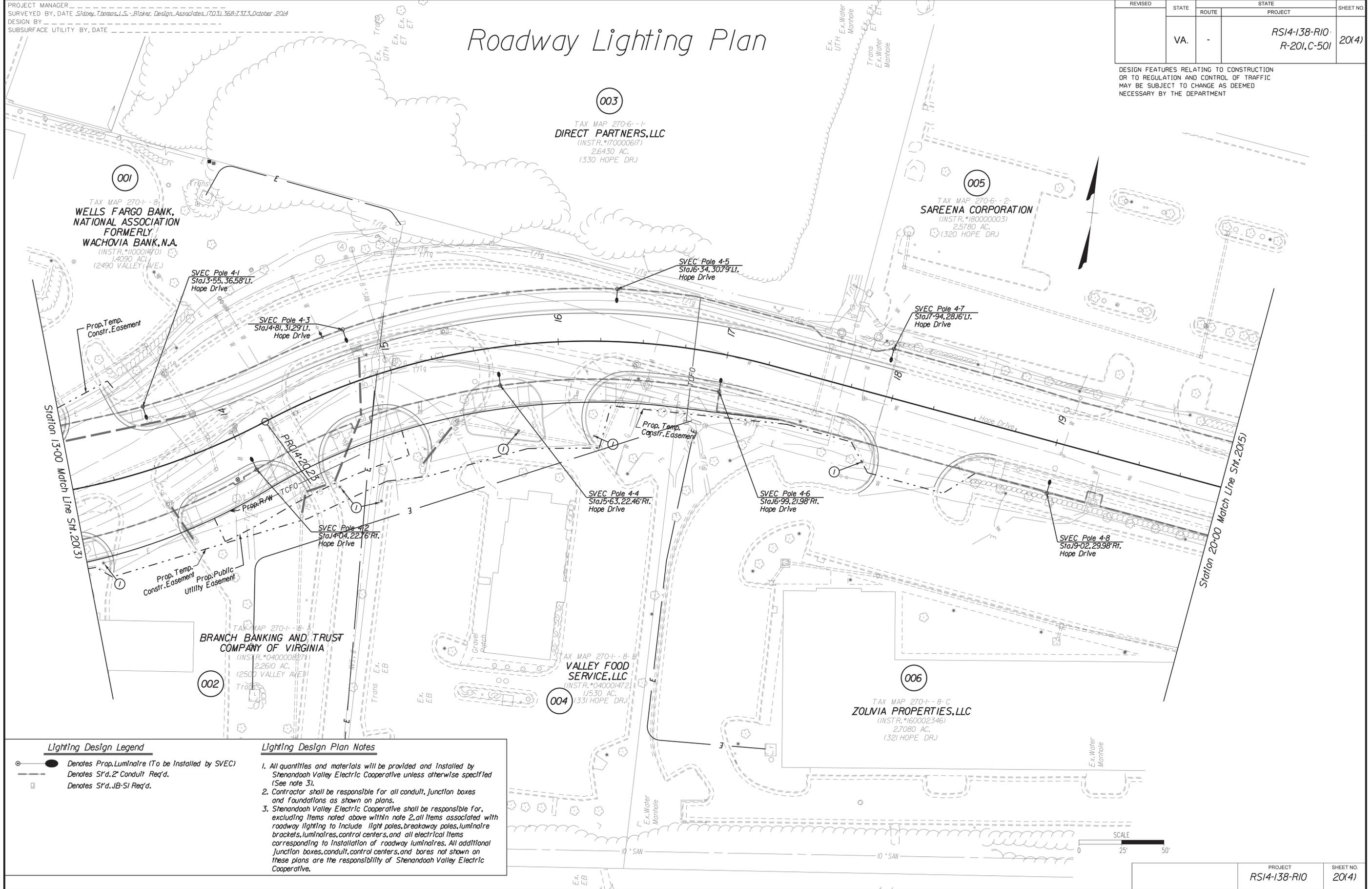
PROJECT MANAGER
SURVEYED BY, DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
DESIGN BY
SUBSURFACE UTILITY BY, DATE

Roadway Lighting Plan

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	-	RS14-138-R10-R-201,C-501	20(4)

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

Office Locations
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Environmental Engineering • Right of Way Services
 Rinker
 10000 Valley Ave., Suite 100
 Fairfax, VA 22031
 (703) 368-7373
 www.rinker.com

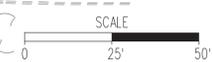


Lighting Design Legend

- Denotes Prop. Luminaire (To be Installed by SVEC)
- Denotes 3" Conduit Req'd.
- Denotes 3" J.B-SI Req'd.

Lighting Design Plan Notes

1. All quantities and materials will be provided and installed by Shenandoah Valley Electric Cooperative unless otherwise specified (See note 3).
2. Contractor shall be responsible for all conduit, junction boxes and foundations as shown on plans.
3. Shenandoah Valley Electric Cooperative shall be responsible for, excluding items noted above within note 2, all items associated with roadway lighting to include light poles, breakaway poles, luminaire brackets, luminaires, control centers, and all electrical items corresponding to installation of roadway luminaires. All additional junction boxes, conduit, control centers, and bores not shown on these plans are the responsibility of Shenandoah Valley Electric Cooperative.



PROJECT	SHEET NO.
RS14-138-R10	20(4)

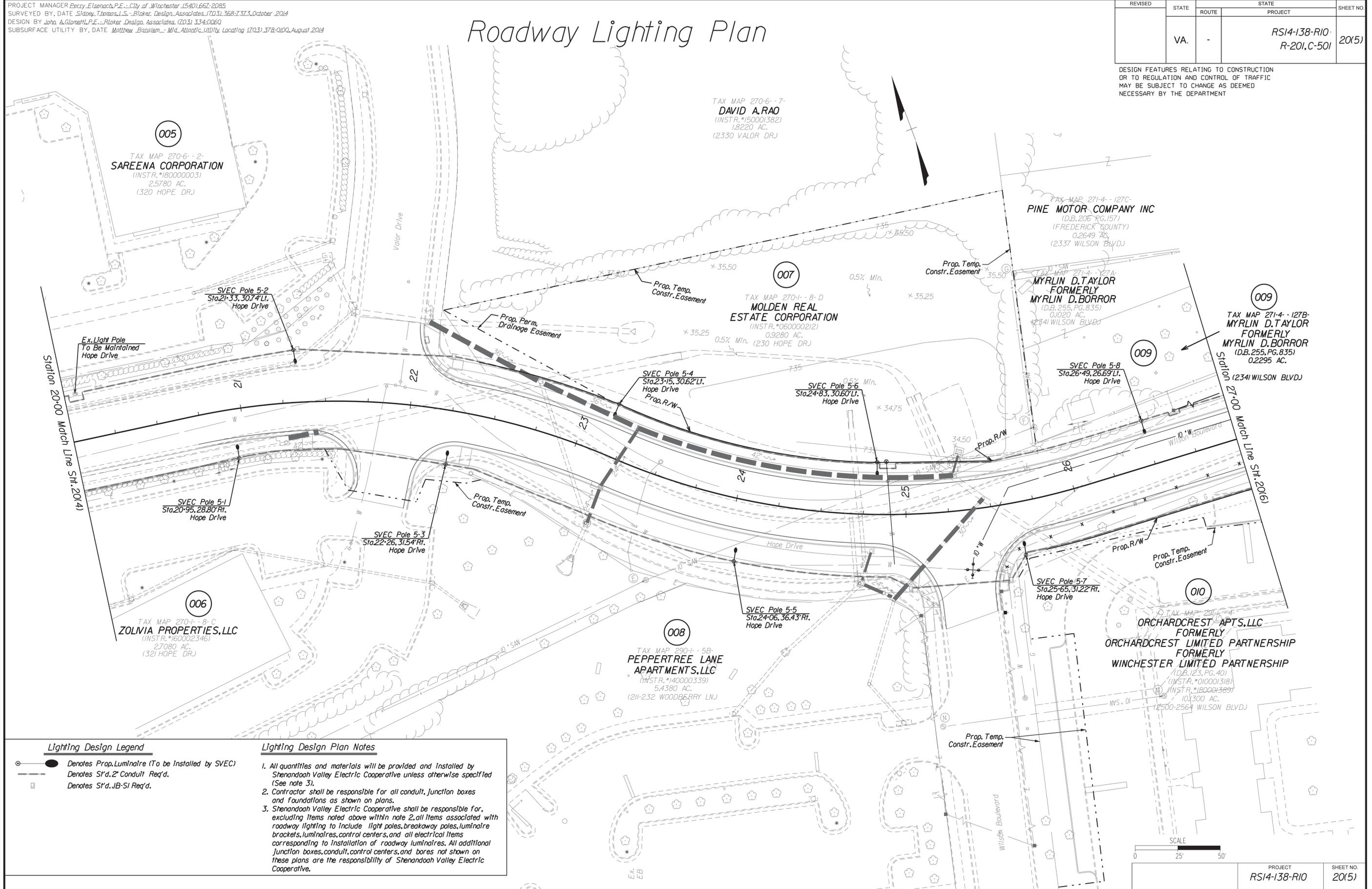
Roadway Lighting Plan

PROJECT MANAGER *Berry Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10-R-201,C-501	20(5)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Old Dominion Blvd., Suite 200
 Fairfax, VA 22031
 (703) 334-0060
 www.rinker.com



Lighting Design Legend

- Denotes Prop. Luminaire (To be Installed by SVEC)
- Denotes S'rd. 2" Conduit Req'd.
- Denotes S'rd. JB-SI Req'd.

Lighting Design Plan Notes

1. All quantities and materials will be provided and installed by Shenandoah Valley Electric Cooperative unless otherwise specified (See note 3).
2. Contractor shall be responsible for all conduit, junction boxes and foundations as shown on plans.
3. Shenandoah Valley Electric Cooperative shall be responsible for, excluding items noted above within note 2, all items associated with roadway lighting to include light poles, breakaway poles, luminaire brackets, luminaires, control centers, and all electrical items corresponding to installation of roadway luminaires. All additional junction boxes, conduit, control centers, and boxes not shown on these plans are the responsibility of Shenandoah Valley Electric Cooperative.



PROJECT	SHEET NO.
RS14-138-R10	20(5)

PROJECT MANAGER *Ecory Eisenach, P.E.* - City of Winchester (540) 667-2085
 SURVEYED BY, DATE *Sidney Thomas, L.S.* - *Rinker Design Associates* (703) 368-7373, October 2014
 DESIGN BY *John A. Giannelli, P.E.* - *Rinker Design Associates* (703) 334-0060
 SUBSURFACE UTILITY BY, DATE *Matthew Braslem* - *Mid-Atlantic Utility Locating* (703) 378-0100, August 2014

Roadway Lighting Plan

TAX MAP 271-4 - 58-
**TRUSTEES OF THE
 GRACE COMMUNITY CHURCH**
 (INSTR. #030005300)
 1.1421 AC.
 (2333 ROOSEVELT BLVD.)

TAX MAP 271-4 - 147-
PINE BURKE REALTY, LLC.
 (D.B. 295, PG. 1598)
 0.928 AC.
 (2332 WILSON BLVD.)

TAX MAP 271-4 - 147B-
**ABDUL R. DEAN
 AND NAZLIE R. DEAN**
 (D.B. 302, PG. 713)
 0.2355 AC.
 (2336 WILSON BLVD.)

TAX MAP 291-H - 21A-
**RAO &
 SHIELDS LLC**
 (INSTR. #160003037)
 3.9380 AC.
 (2479 PAPERMILL RD.)

TAX MAP 291-H - 4-
**ORCHARDCREST APTS, LLC
 FORMERLY
 ORCHARDCREST LIMITED PARTNERSHIP
 FORMERLY
 WINCHESTER LIMITED PARTNERSHIP**
 (D.B. 123, PG. 40)
 (INSTR. #010001318)
 (INSTR. #180001389)
 10.300 AC.
 (2500-2564 WILSON BLVD.)

TAX MAP 271-4 - 127B-
**MYRLIN D. TAYLOR
 FORMERLY
 MYRLIN D. BORROR**
 (D.B. 255, PG. 835)
 0.2295 AC.
 (2341 WILSON BLVD.)

TAX MAP 291-H - 3A-
**ECONOMIC DEVELOPMENT AUTHORITY
 OF THE COUNTY OF FREDERICK, VIRGINIA**
 (INSTR. #160002992)
 (FREDERICK COUNTY)
 4.5624 AC.
 (151 HOPE DR.)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	RS14-138-R10- R-201,C-501	20(6)

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

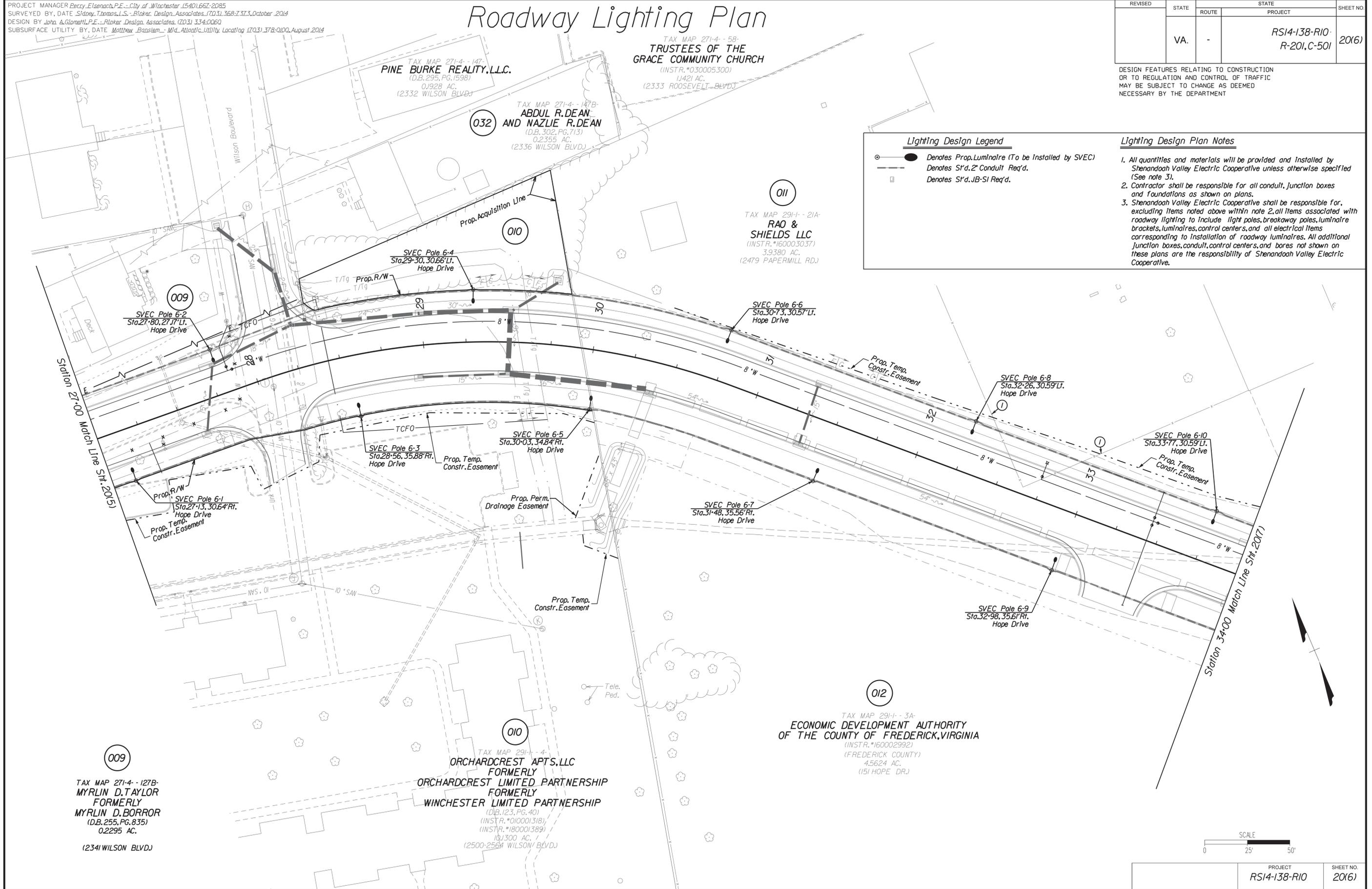
Lighting Design Legend

- Denotes Prop. Luminaire (To be Installed by SVEC)
- Denotes 1" x 2" Conduit Req'd.
- Denotes 1" x 2" JB-SI Req'd.

Lighting Design Plan Notes

1. All quantities and materials will be provided and installed by Shenandoah Valley Electric Cooperative unless otherwise specified (See note 3).
2. Contractor shall be responsible for all conduit, junction boxes and foundations as shown on plans.
3. Shenandoah Valley Electric Cooperative shall be responsible for, excluding items noted above within note 2, all items associated with roadway lighting to include light poles, breakaway poles, luminaire brackets, luminaires, control centers, and all electrical items corresponding to installation of roadway luminaires. All additional junction boxes, conduit, control centers, and bores not shown on these plans are the responsibility of Shenandoah Valley Electric Cooperative.

Rinker
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 10000 Old Dominion Blvd., Suite 200
 Fairfax, VA 22030
 (703) 334-0060
 www.rinker.com



PROJECT	SHEET NO.
RS14-138-R10	20(6)

Office Locations
 Charlottesville, VA
 Fairfax, VA
 Falls Church, VA
 Herndon, VA
 Reston, VA
 Springfield, VA
 Warrenton, OR
 Washington, DC
 Winchester, VA
 York, VA

Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Site Planning • Right of Way Services

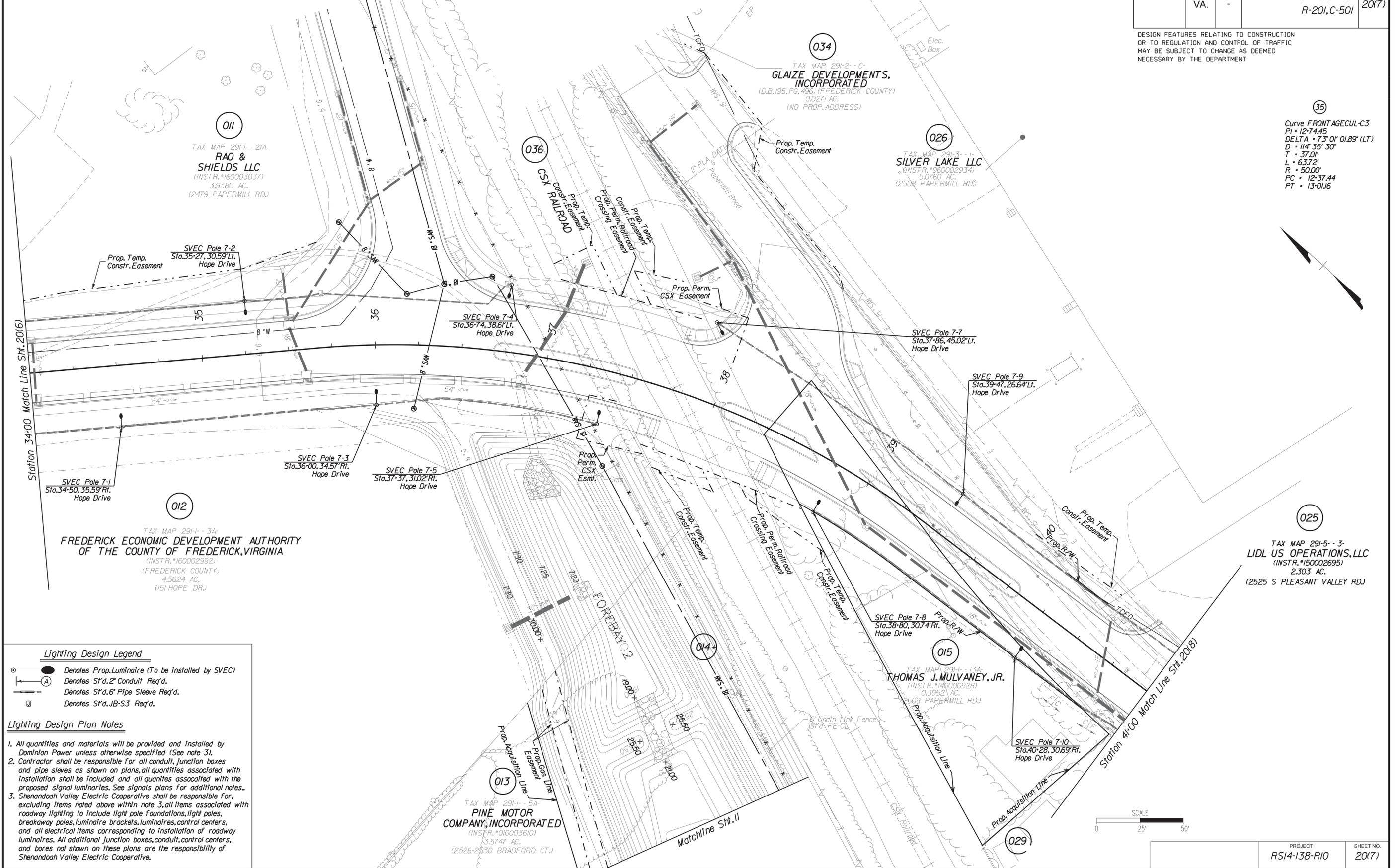


PROJECT MANAGER Perry Eisenach, P.E., City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney Thomas, L.S., Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giannelli, P.E., Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew Braslam, M.D., Atlantic Utility Locating (703) 378-0100, August 2014

Roadway Lighting Plan

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	-	RS14-138-R10-R-201,C-501		20(7)

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



35
 Curve FRONTAGE C-3
 PI = 12+74.45
 DELTA = 73° 01' 01.89" (LT)
 D = 114' 35" 30"
 T = 37.01'
 L = 63.72'
 R = 50.00'
 PC = 12+37.44
 PT = 13+01.16

Lighting Design Legend

- Denotes Prop. Luminaire (To be Installed by SVEC)
- ⊖ Denotes Std. 2" Conduit Req'd.
- Denotes Std. 6" Pipe Sleeve Req'd.
- Denotes Std. JB-S3 Req'd.

Lighting Design Plan Notes

- All quantities and materials will be provided and installed by Dominion Power unless otherwise specified (See note 3).
- Contractor shall be responsible for all conduit, junction boxes and pipe sleeves as shown on plans, all quantities associated with installation shall be included and all quantities associated with the proposed signal luminaires. See signals plans for additional notes.
- Shenandoah Valley Electric Cooperative shall be responsible for, excluding items noted above within note 3, all items associated with roadway lighting to include light pole foundations, light poles, breakaway poles, luminaire brackets, luminaires, control centers, and all electrical items corresponding to installation of roadway luminaires. All additional junction boxes, conduit, control centers, and bores not shown on these plans are the responsibility of Shenandoah Valley Electric Cooperative.

PROJECT	SHEET NO.
RS14-138-R10	20(7)

PROJECT MANAGER Perry, Eisenach, P.E. - City of Winchester (540) 667-2085
 SURVEYED BY DATE Sidney, Thomas, L.S. - Rinker Design Associates (703) 368-7373, October 2014
 DESIGN BY John A. Giannelli, P.E. - Rinker Design Associates (703) 334-0060
 SUBSURFACE UTILITY BY DATE Matthew, Braslam - Mid-Atlantic Utility Locating (703) 378-0100, August 2014

Roadway Lighting Plan

REVISED 07-27-2018	STATE VA.	ROUTE -	STATE PROJECT RS14-138-R10- P-101, R-201, C-501	SHEET NO. 20(8)
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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

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

029
 TAX MAP 291-1-12-
**GARLAND WILLIAM STROSNIDER (LIFE ESTATE)
 AND
 ROBERT STROSNIDER (LIFE ESTATE)
 WITH VESTED REMAINDER TO
 STEPHANIE STROSNIDER
 AND
 TIFFANY STROSNIDER**
 (WILL INSTR. *060000023)
 0.600 AC. (PER TAX ASSESSMENT)
 0.2069 AC. (PER FIELD COMPS.)
 (2521 PAPERMILL RD.)

025
 TAX MAP 291-5-3-
LIDL US OPERATIONS, LLC
 (INSTR. *150002695)
 2.303 AC.
 (2525 S PLEASANT VALLEY RD.)

027
 TAX MAP 291-5-4-
BANK OF CLARKE COUNTY
 (INSTR. *020003474)
 0.6097 AC.
 (2555 S PLEASANT VALLEY RD.)

028
 TAX MAP 292-2-10-
COLE MT WINCHESTER VA, LLC
 (INSTR. *100002317)
 17.334 AC.
 (2590 S PLEASANT VALLEY RD.)

028
 TAX MAP 291-1-10-
LA DONSUE, L.C.
 (D.B. 269, PG. 1320)
 1.5086 AC.
 (2537 PAPERMILL RD.)

030
 TAX MAP 291-5-1-1-
**GLAIZE DEVELOPMENTS,
 INCORPORATED**
 (D.B. 195, PG. 496) (FREDERICK COUNTY)
 (D.B. 135, PG. 580)
 (INSTR. *020000991)
 (INSTR. *070001498)
 1.8770 AC.
 (2605 S PLEASANT VALLEY RD.)

Station 41+00 Match Line SH-20(7)

SVEC Pole 8-1
Sta. 41+17.27.37' LI.
Hope Drive

SVEC 8-3
Sta. 42+79.26.48' LI.
Hope Drive

SVEC 8-5
Sta. 44+21.29.82' LI.
Hope Drive

SVEC Pole 8-2
Sta. 41+82.28.62' RI.
Hope Drive

SVEC Pole 8-4
Sta. 43+60.42.66' RI.
Hope Drive

Lighting Design Legend

- Denotes Prop. Luminaire (To be Installed by SVEC)
- Denotes S' d. 2" Conduit Req'd.
- Denotes S' d. JB-SI Req'd.

Lighting Design Plan Notes

1. All quantities and materials will be provided and installed by Shenandoah Valley Electric Cooperative unless otherwise specified (See note 3).
2. Contractor shall be responsible for all conduit, junction boxes and foundations as shown on plans.
3. Shenandoah Valley Electric Cooperative shall be responsible for, excluding items noted above within note 2, all items associated with roadway lighting to include light poles, breakaway poles, luminaire brackets, luminaires, control centers, and all electrical items corresponding to installation of roadway luminaires. All additional junction boxes, conduit, control centers, and bores not shown on these plans are the responsibility of Shenandoah Valley Electric Cooperative.

