



ENGINEER
RUMMEL, KLEPPER, & KAHL
 LLP

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 12600 Fair Lakes Circle, Suite 300
 Fairfax, VA 22033
 Phone: 703.246.0028

OWNER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

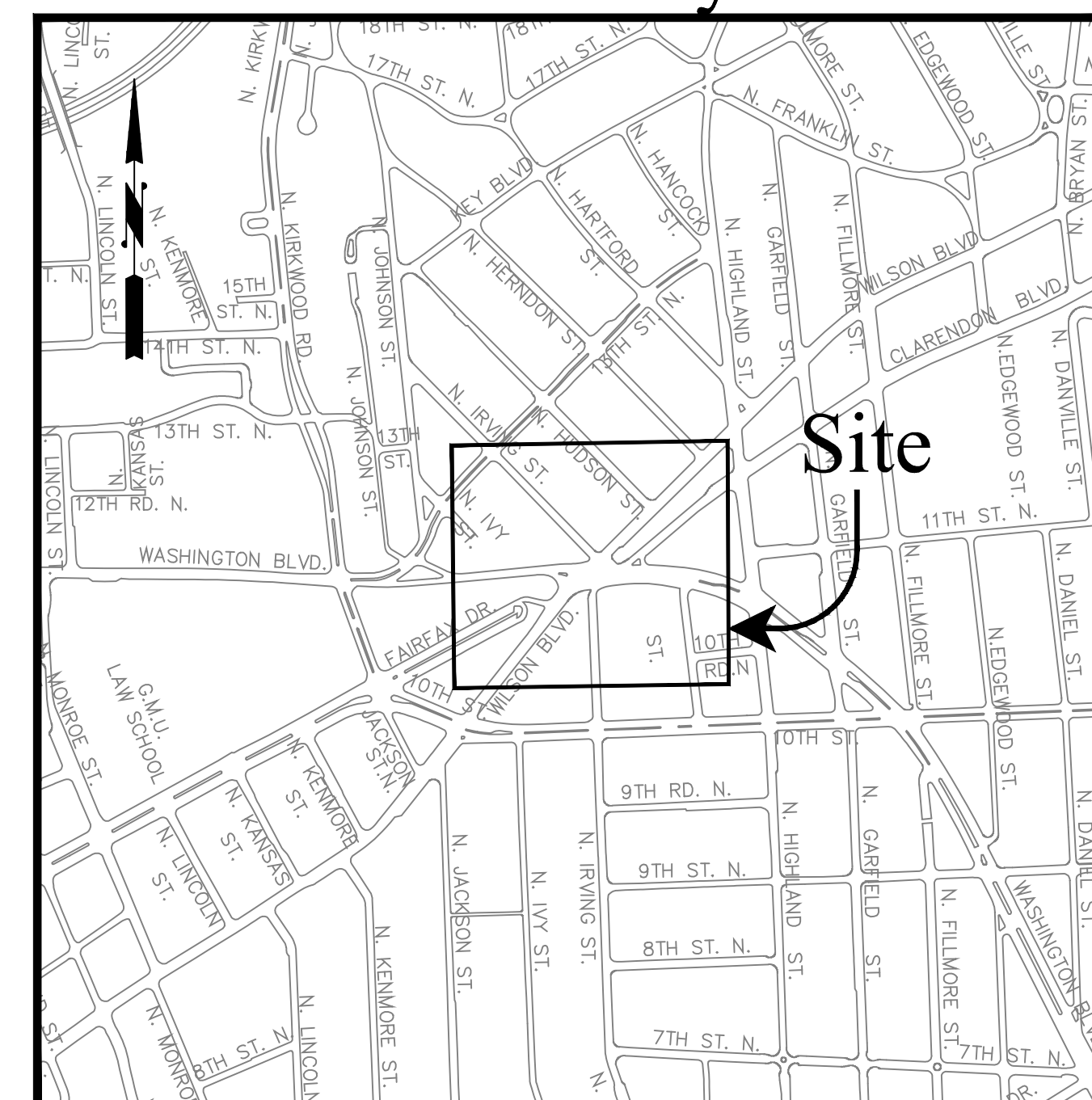
Facilities & Engineering Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813, Arlington, VA 22201
 Phone: 703.228.3629 Fax: 703.228.3606 www.arlingtonva.us

CONTRACTOR
 TO BE DETERMINED

Location Map

Scale: 1"=600'

Vicinity



[90% - NOT FOR CONSTRUCTION]

Construction Drawings For: Clarendon Circle Improvements

Wilson Blvd. at Washington Blvd.

Project Number: 314.43513.D09S.SJ6.0000



DEPARTMENT OF
 ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

General Notes:

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER AND/OR SEWER LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCHES SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.

STORMWATER AND ENVIRONMENTAL PROTECTION

THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).

TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST TWO WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE PROJECT OFFICER.

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STREET CLASSIFICATION:

Washington Blvd: Urban Minor Arterial - 30 MPH Posted Speed
 Wilson Blvd: Urban Principal Arterial - 25 MPH Posted Speed
 Clarendon Blvd: Urban Minor Arterial - 25 MPH Posted Speed

AADT:

Washington Blvd:
 20,000 VEHICLES PER DAY (2014)
 30,000 VEHICLES PER DAY (2034 - Projected)
 DHV: 875 VPH (2014) / 1300 VPH (2034)

Wilson Blvd:
 11,000 VEHICLES PER DAY (2014)
 16,500 VEHICLES PER DAY (2034 - Projected)

Clarendon Blvd:
 12,000 VEHICLES PER DAY (2014)
 18,000 VEHICLES PER DAY (2034 - Projected)

Project Name and Location

Clarendon Circle
 Improvements

COVER SHEET

Wilson Blvd. at Washington Blvd.

314.43513.D09S.SJ6.0000

Designed: MJA
 Drawn: MJA
 Checked: MJK
 Miss Utility Transmittal #: 5057

Filename: 1_Cover Sheet.dwg
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 3 - Clarendon Circle\CADD\Civil3d\ClarendonPlan
 Plotted: May 27, 2016
 Plotted by: marnone

Scale: As Noted

Sheet

1

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

Project Name and Location
Clarendon Circle Improvements
LEGEND & NOTES SHEET
Wilson Blvd. at Washington Blvd.
314-43513.D09S-S16.0000

Designed: IJC
Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 2_Legend.dwg
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3 - Clarendon Circle\2016\CD\306\Clarendon\Plan
Plotted: May 16, 2016
Plotted by: marnone

Scale: N.T.S.

	Existing	Proposed
Easement	---	---
Asphalt	---	---
Building	---	---
Cable TV	---CATV---	---
Center Line	---	---
Concrete	---	---
Contours	---250---	---250---
Curb	---	---
Electric (Underground)	---UGE---	---
Fence	---X---X---X---X---X---X---	---
Fiber Optic	---FO---	---
Guardrail	---O---O---O---O---O---	---
2" Gas	---2" G---	---
3" Gas	---3" G---	---
6" Gas	---6" G---	---
8" Gas	---8" G---	---
Gas	---GAS---	---
Limits Of Disturbance	---	---
Overhead Wires	---O---O---O---O---	---
Property Line	---	---
8" Sanitary	---8" S---	---
12" Sanitary	---12" S---	---
Sanitary Sewer	---	---
Sanitary House Con.	---SHC---	---
Sidewalk	---	---
Storm (size noted)	---	---
Telephone (Underground)	---UST---	---
Wall	---	---
6" Water	---6" W---	---
8" Water	---8" W---	---
12" Water	---12" W---	---
Water	---W---	---
Water House Con.	---WHC---	---
Lane Marking	---	---
Tree Line	---	---
PVC (Street Lights)	---	---

Asphalt - Mill & Overlay	
Asphalt - Overlay	
Asphalt - Full Depth	
Concrete	
Demolish Existing Sidewalk	
Demolish Existing Driveway Aprons	
Demolish Existing Curb & Gutter	
Sand	
Soil	
Gravel	
Brick	

Storm Structure - Proposed	
Storm Manhole Cover - Existing	
Storm Structure - Existing	
Sanitary Manhole Cover - Proposed	
Sanitary Structure - Proposed	
Manhole Cover Existing	
Sanitary Structure - Existing	
Fire Hydrant - Proposed	
Reducer - Proposed	
Gate Valve - Proposed	
Blowoff Valve - Proposed	
Crossing Connector - Proposed	
Tee Connector - Proposed	
11 1/4° Bend - Proposed	
22 1/2° Bend - Proposed	
45° Bend - Proposed	
90° Bend - Proposed	
Water Meter - Proposed	
Water Cap - Proposed	
Water Valve - Existing	
Fire Hydrant - Existing	
Water Manhole Cover - Existing	
Water Meter - Existing	
Siamese Connection / Standpipe - Existing	
CableTV Pedestal - Existing	
Gas Line Marker - Existing	
Electrical Box - Existing	
Telephone Pedestal - Existing	
Cobrahead Light - Existing	
Cobrahead Light - Proposed	
Carlyle Light - Proposed	
Carlyle Light - Existing	
Ground Light - Existing	
Light Pole - Existing	
Light Pole - Proposed	
Utility Pole - Existing	
Utility Pole - Proposed	
Guy Wire - Existing	
Utility Cover - Existing	
Gas Valve - Existing	
Test Hole - Proposed	
Test Hole - Existing	

Bollard - Existing	
Mailbox - Existing	
Parking Meter - Existing	
Sign - Existing	
Sign - Proposed	
Bus Sign - Existing	
Bus Sign - Proposed	
Traffic Mast Arm Pole - Existing	
Traffic Mast Arm Pole - Proposed	
Traffic Pedestrian Pole - Existing	
Traffic Pedestrian Pole - Proposed	
Traffic Control Box - Existing	
Traffic Control Box - Proposed	
Traffic Electrical Box - Existing	
Traffic Electrical Box - Proposed	
Traffic Junction Box - Existing	
Traffic Junction Box - Proposed	
Traffic Service Meter - Existing	
Traffic Service Meter - Proposed	
Construction Notes	
Benchmark	
Monument (GPS)	
Monument	
Iron Rod Found	
Iron Rod Set	
Iron Pipe Found	
Iron Pipe Set	
Rebar Rod Found	
Rebar Rod Set	
P.K. Nail Found	
P.K. Nail Set	
Traverse	
North Arrow	
Coniferous Tree - Existing	
Deciduous Tree - Existing	
Bush/Hedge/Shrub - Existing	
Sanitary Structure # - Existing	
Storm Structure # - Existing	
Sanitary Structure # - Proposed	
Storm Structure # - Proposed	

Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

**Clarendon Circle
Improvements**

EXISTING & DEMO PLAN
Wilson Blvd. at Washington Blvd.

314-43513.DWG/S16.0000

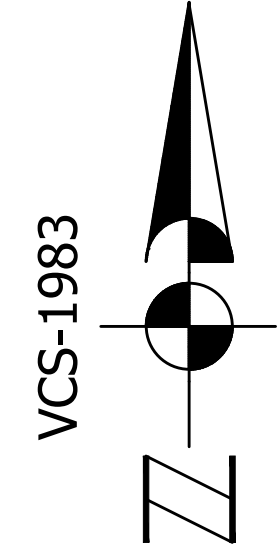
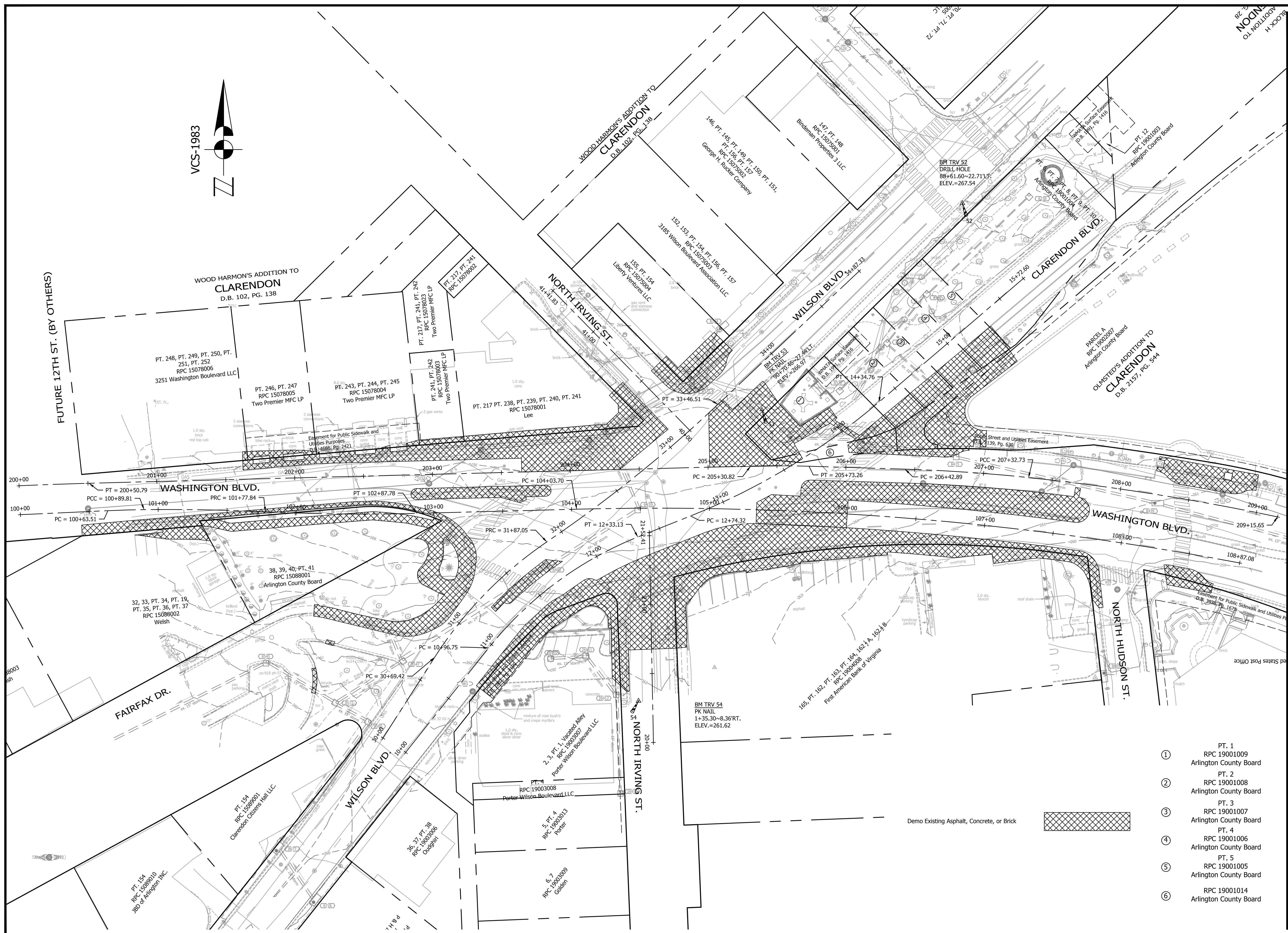
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Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

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3 - Clarendon Circle\2401\ClarendonPlan
Plotted: May 24, 2016
Plotted by: marnone

Scale: Hor.: 1"=30'

Sheet **3**



- ① PT. 1
RPC 19001009
Arlington County Board
- ② PT. 2
RPC 19001008
Arlington County Board
- ③ PT. 3
RPC 19001007
Arlington County Board
- ④ PT. 4
RPC 19001006
Arlington County Board
- ⑤ PT. 5
RPC 19001005
Arlington County Board
- ⑥ RPC 19001014
Arlington County Board

Demo Existing Asphalt, Concrete, or Brick





ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
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TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Project Name and Location
Clarendon Circle Improvements
GEOMETRIC CONTROL PLAN
Wilson Blvd. at Washington Blvd.

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 4_Geometric Control Plan.dwg
Path: M:\projects\20111112_Arlington Multimodal\Task 3 - Clarendon Circle\2420111112_Clar\3050_Clar\ControlPlan
Plotted: May 18, 2016
Plotted by: marnone

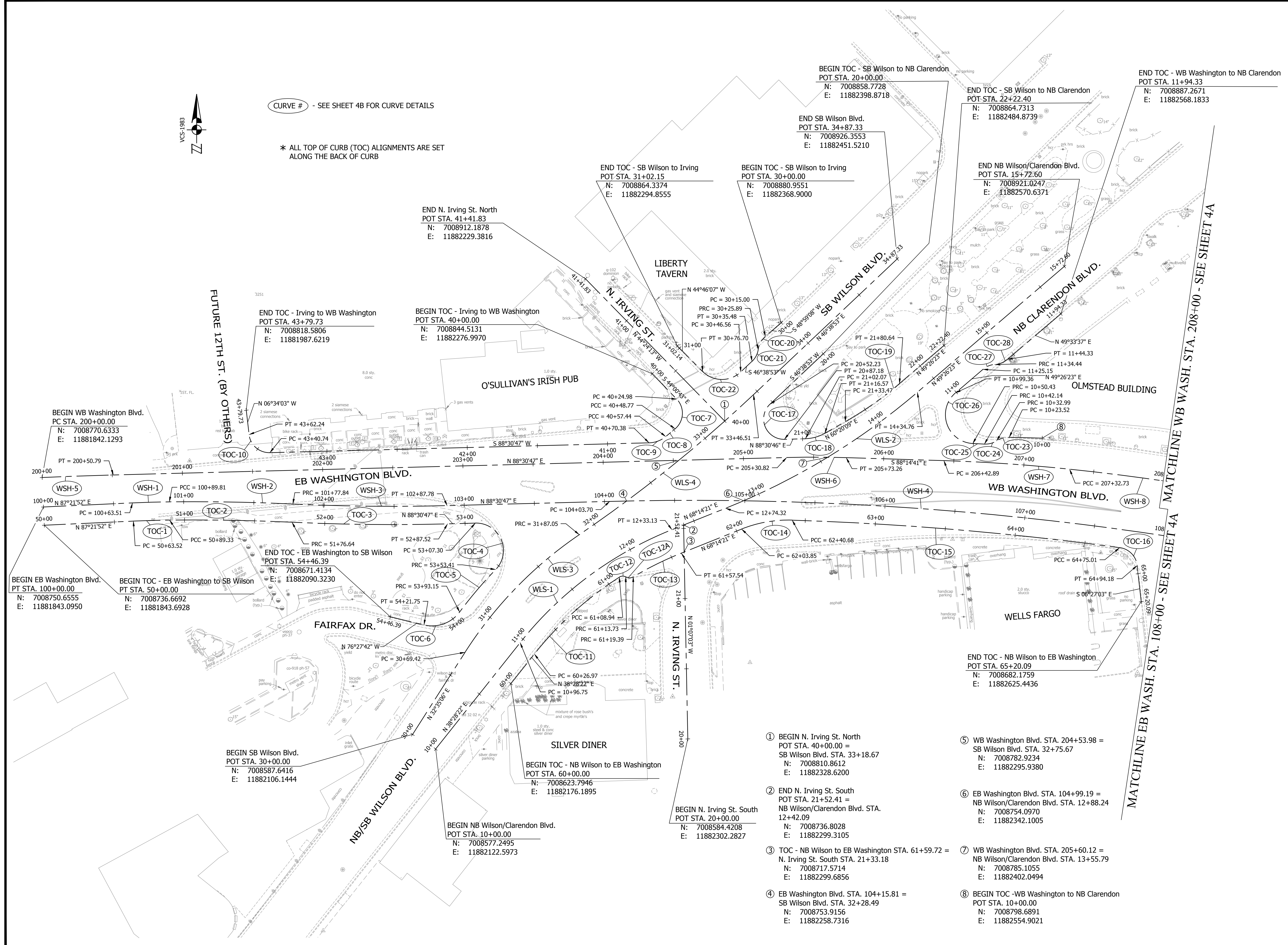
Scale: Hor.: 1"=30'

Sheet 4



CURVE # - SEE SHEET 4B FOR CURVE DETAILS

* ALL TOP OF CURB (TOC) ALIGNMENTS ARE SET ALONG THE BACK OF CURB



- ① BEGIN N. Irving St. North
POT STA. 40+00.00 =
SB Wilson Blvd. STA. 32+75.67
N: 7008810.8612
E: 11882328.6200
- ② END N. Irving St. South
POT STA. 21+52.41 =
NB Wilson/Clarendon Blvd. STA. 12+42.09
N: 7008736.8028
E: 11882299.3105
- ③ TOC - NB Wilson to EB Washington STA. 61+59.72 =
N. Irving St. South STA. 21+33.18
N: 7008717.5714
E: 11882299.6856
- ④ EB Washington Blvd. STA. 104+15.81 =
SB Wilson Blvd. STA. 32+28.49
N: 7008753.9156
E: 11882258.7316
- ⑤ WB Washington Blvd. STA. 204+53.98 =
SB Wilson Blvd. STA. 32+75.67
N: 7008782.9234
E: 11882295.9380
- ⑥ EB Washington Blvd. STA. 104+99.19 =
NB Wilson/Clarendon Blvd. STA. 12+88.24
N: 7008754.0970
E: 11882342.1005
- ⑦ WB Washington Blvd. STA. 205+60.12 =
NB Wilson/Clarendon Blvd. STA. 13+55.79
N: 7008785.1055
E: 11882402.0494
- ⑧ BEGIN TOC -WB Washington to NB Clarendon
POT STA. 10+00.00
N: 7008798.6891
E: 11882554.9021



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Revisions Date

Revisions	Date

Project Name and Location
Clarendon Circle Improvements

GEOMETRIC CONTROL PLAN
Wilson Blvd. at Washington Blvd.

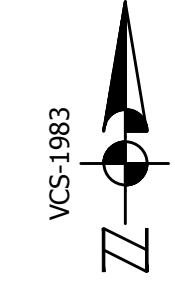
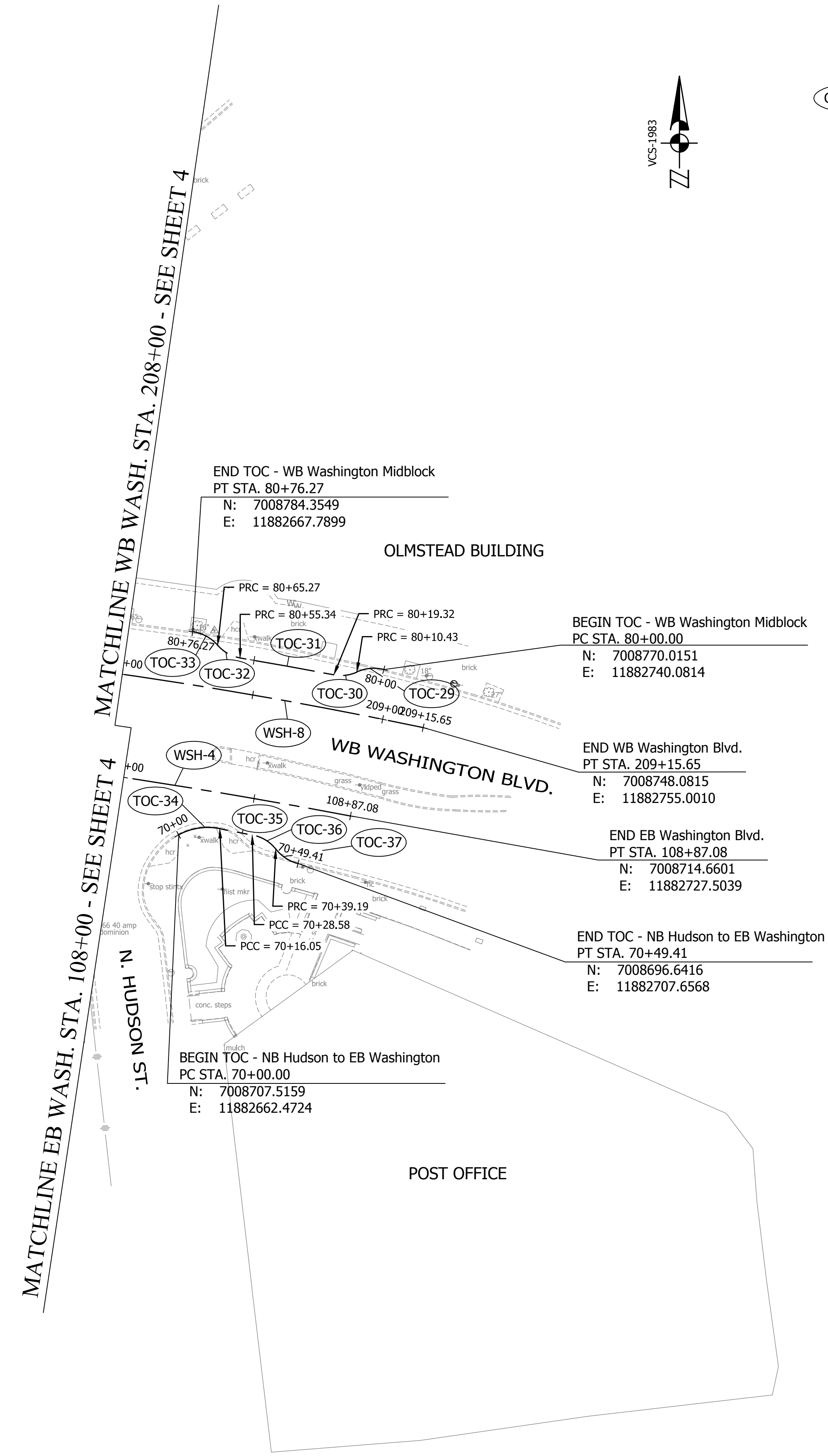
314-43513.DWG/SJ16.0000

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 4_Geometric Control Plan.dwg
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3 - Clarendon Circle\24301\306\ClarendonPlan
Plotted: May 18, 2016
Plotted by: marnone

Scale: Hor.: 1"=30'

Sheet **4A**



CURVE # - SEE SHEET 4B FOR CURVE DETAILS

* ALL TOP OF CURB (TOC) ALIGNMENTS ARE SET ALONG THE BACK OF CURB

MATCHLINE WB WASH. STA. 208+00 - SEE SHEET 4

MATCHLINE EB WASH. STA. 108+00 - SEE SHEET 4

15 NOSDNH N

ROADWAY ALIGNMENTS

ALIGNMENT: EB Washington Blvd.												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
WSH-1	100+63.51	01°58'45.93"	07°31'44.44"	13.15	761.00	0.11	26.29	26.29	0.11	N 87°21'52" E	7008752.58	11881906.54
	100+76.66									7008753.18	11881919.68	
	100+89.81									7008753.33	11881932.82	
WSH-2	100+89.81	03°20'25.81"	03°47'39.92"	44.03	1510.00	0.64	88.03	88.04	0.64	N 89°20'38" E	7008753.33	11881932.82
	101+33.84									7008753.33	11881932.82	
	101+77.84									7008753.33	11881932.82	
WSH-3	101+77.84	04°10'16.81"	03°47'39.92"	54.99	1510.00	1.00	109.91	109.93	1.00	S 87°18'57" E	7008751.77	11882020.83
	102+32.83									7008751.77	11882020.83	
	102+87.78									7008751.77	11882020.83	
WSH-4	104+03.70	12°14'28.00"	02°31'56.67"	242.61	2262.50	12.97	482.46	483.38	12.90	N 88°30'47" E	7008753.63	11882246.62
	106+46.31									7008753.63	11882246.62	
	108+87.08									7008753.63	11882246.62	

ALIGNMENT: WB Washington Blvd.												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
WSH-5	200+00.00	01°08'55.15"	02°15'41.50"	25.40	2533.50	0.13	50.79	50.79	0.13	N 87°21'52" E	7008770.63	11881842.13
	200+25.40									7008771.80	11881867.50	
	200+50.79									7008772.46	11881892.89	
WSH-6	205+30.82	03°14'32.39"	07°38'21.97"	21.23	750.00	0.30	42.44	42.44	0.30	N 88°30'47" E	7008784.92	11882372.75
	205+52.04									7008785.47	11882393.97	
	205+73.26									7008784.82	11882415.19	
WSH-7	206+42.89	04°15'02.26"	04°43'52.60"	44.94	1211.00	0.83	89.82	89.84	0.83	S 88°14'41" E	7008782.69	11882484.79
	206+87.83									7008781.31	11882529.71	
	207+32.73									7008776.61	11882574.40	
WSH-8	207+32.73	05°54'00.83"	03°13'32.24"	91.54	1776.27	2.36	182.84	182.92	2.35	S 83°58'52" E	7008776.61	11882574.40
	208+24.27									7008767.00	11882665.44	
	209+15.65									7008748.08	11882755.00	

ALIGNMENT: NB Wilson/Clarendon Blvd.												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
WLS-1	10+96.75	29°45'59.79"	21°49'37.07"	69.76	262.50	9.11	134.85	136.38	8.81	N 38°28'22" E	7008653.00	11882182.79
	11+66.52									7008707.62	11882226.19	
	12+33.13									7008733.48	11882290.99	
WLS-2	12+74.32	18°47'58.24"	11°43'00.94"	80.95	489.00	6.66	159.73	160.45	6.57	N 68°14'21" E	7008748.75	11882329.24
	13+55.27									7008778.76	11882404.42	
	14+34.76									7008831.40	11882465.92	

ALIGNMENT: SB Wilson Blvd.												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
WLS-3	30+69.42	23°11'58.89"	19°43'23.65"	59.63	290.50	6.06	116.83	117.63	5.93	N 32°35'06" E	7008646.13	11882143.53
	31+29.05									7008696.38	11882175.64	
	31+87.05									7008729.91	11882224.95	
WLS-4	31+87.05	09°08'11.90"	05°43'46.56"	79.90	1000.00	3.19	159.30	159.46	3.18	N 55°47'05" E	7008729.91	11882224.95
	32+66.95									7008774.84	11882291.03	
	33+46.51									7008829.69	11882349.13	

TOP OF CURB (TOC) ALIGNMENTS*

ALIGNMENT: TOC - EB Washington to SB Wilson												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
TOC-1	50+63.52	01°58'39.60"	07°39'35.50"	12.91	748.00	0.11	25.82	25.82	0.11	N 87°21'52" E	7008739.59	11881907.14
	50+76.43									7008740.18	11881920.04	
	50+89.33									7008740.33	11881932.95	
TOC-2	50+89.33	03°20'28.97"	03°49'38.54"	43.66	1497.00	0.64	87.29	87.30	0.64	N 89°20'34" E	7008740.33	11881932.95
	51+33.00									7008740.83	11881976.61	
	51+76.64									S 87°18'57" E	7008738.79	11882020.22
TOC-3	51+76.64	04°10'16.81"	03°45'43.32"	55.46	1523.00	1.01	110.86	110.88	1.01	S 87°18'57" E	7008738.79	11882020.22
	52+32.10									7008736.19	11882075.63	
	52+87.52									N 88°30'47" E	7008737.63	11882131.07
TOC-4	53+07.30	135°30'17.56"	293°49'28.24"	47.67	19.50	32.00	36.10	46.12	12.12	N 88°30'47" E	7008738.14	11882150.85
	53+54.97									7008739.38	11882198.50	
	53+53.41									S 44°01'04" W	7008705.10	11882165.38
TOC-5	53+53.41	07°20'42.07"	18°28'57.03"	19.90	310.00	0.64	39.71	39.74	0.64	S 44°01'04" W	7008705.10	11882165.38
	53+73.31									7008690.79	11882151.55	
	53+93.15									S 36°40'22" W	7008674.83	11882139.67
TOC-6	53+93.15	66°51'55.82"	233°51'37.17"	16.18	24.50	4.86	27.00	28.59	4.05	S 36°40'22" W	7008674.83	11882139.67
	54+09.33									7008661.86	11882130.01	
	54+21.75									N 76°27'42" W	7008665.65	11882114.28

ALIGNMENT: TOC - Irving to WB Washington												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
TOC-7	40+24.98	94°00'36.71"	395°08'35.92"	15.55	14.50	6.76	21.21	23.79	4.61	S 44°00'43" E	7008826.55	11882294.35
	40+40.53									7008815.36	11882305.16	
	40+48.77									S 49°59'54" W	7008805.37	11882293.24
TOC-8	40+48.77	00°30'23.39"	05°50'25.97"	4.34	981.00	0.01	8.67	8.67	0.01	S 49°59'54" W	7008805.37	11882293.24
	40+53.11									7008802.58	11882289.92	
	40+57.44									S 50°30'18" W	7008799.82	11882286.58
TOC-9	40+57.44	38°00'29.03"	293°49'28.25"	6.72	19.50	1.12	12.70	12.94	1.06	S 50°30'18" W	7008799.82	11882286.58
	40+64.16									7008795.55	11882281.39	
	40+70.38									S 88°30'47" W	7008795.38	11882274.68
TOC-10	43+40.74	84°55'09.96"	395°08'35.92"	13.27	14.50	5.15	19.58	21.49	3.80	S 88°30'47" W	7008788.36	11882004.40
	43+54.01									7008788.02	11881991.14	
	43+62.24									N 06°34'03" W	7008801.20	11881989.62

ALIGNMENT: TOC - NB Wilson to EB Washington												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
TOC-11	60+26.97	18°49'21.18"	22°57'51.26"	41.36	249.50	3.40	81.60	81.97	3.36	N 38°28'22" E	7008644.91	11882192.97
	60+68.33									7008677.29	11882218.70	
	61+08.94									N 57°17'43" E	7008699.63	11882253.50
TOC-12	61+08.94	61°00'27.30"	1273°14'22.40"	2.65	4.50	0.72	4.57	4.79	0.62	N 57°17'43" E	7008699.63	11882253.50
	61+11.59									7008701.06	11882255.73	
	61+13.73									S 61°41'50" E	7008699.81	11882258.06
TOC-12A	61+13.73	59°00'09.16"	1041°44'29.23"	3.11	5.50	0.82	5.42	5.66	0.71	S 61°41'50" E	7008699.81	11882258.06
	61+19.39									7008698.33	11882260.80	
	61+19.39									N 59°18'01" E	7008699.92	11882263.48
TOC-13	61+19.39	08°56'20.47"	23°26'01.88"	19.11	244.50	0.75	38.11	38.15	0.74	N 59°18'01" E	7008699.92	11882263.48
	61+38.50									7008709.68	11882279.91	
	61+57.54									N 68°14'21" E	7008716.76	11882297.66
TOC-14	62+03.85	23°34'42.12"	64°01'03.47"	18.68	89.50	1.93	36.57	36.83	1.89	N 68°14'21" E	7008733.93	11882340.67
	62+22.53									7008740.86	11882355.02	
	62+40.68									S 88°10'56" E	7008740.26	11882376.69
TOC-15	62+40.68	05°58'06.43"	02°32'49.36"	117.27	2249.50	3.06	234.22	234.33	3.05	S 88°10'56" E	7008740.26	11882376.69
	63+57.95									7008736.54	11882493.90	
	64+75.01									S 82°12'50" E	7008720.66	11882610.09
TOC-16	64+75.01	75°45'47.02"	395°08'35.92"	11.28	14.50	3.87	17.81	19.17	3.06	S 82°12'50" E	7008720.66	11882610.09
	64+86.29									7008719.13	11882621.27	
	64+94.18									S 06°27'03" E	7008707.92	11882622.53

ALIGNMENT: TOC - SB Wilson to NB Clarendon												
CURVE	PC STA. PI STA. PT STA.	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK		
										BEARING AHEAD	NORTHING	EASTING
TOC-17	20+52.23	138°08'06.08"	395°08'35.92"	37.91	14.50	26.09	27.09	34.96	9.32	S 46°38'53" W	7008822.92	11882360.90
	20+90.13									7008796.90	11882333.33	
	20+87.18									N 88°30'46" E	7008797.88	11882371.23
TOC-18	21+02.07	28°10'36.88"	194°13'22.74"	7.40	29.50	0.92	14.36	14.51	0.89	N 88°30'46" E	7008798.27	11882386.10
	21+09.47									7008798.46	11882393.50	
	21+16.57									N 60°20'09" E	7008802.12	11882399.94
TOC-19	21+33.47	10°53'46.50"	23°06'11.29"	23.65	248.00	1.13	47.09	47.16				

EROSION AND SEDIMENT CONTROL LEGEND

3.07	STORM DRAIN INLET PROTECTION	IP	
3.05	SILT FENCE	SF	
3.20	CHECK DAM TYPE 1	CD	
	LIMIT OF DISTURBANCE		
	LIMIT OF WORK		
	TREE TO BE REMOVED		
	TREE PIT TREE PROTECTION *		
	TREE PROTECTION LIMITS *		
	CRITICAL ROOT ZONE		
	ROOT PRUNING LIMITS		

* NOTE: PROTECT TREES DURING CONSTRUCTION OF PROPOSED WORK AS SHOWN. CALL URBAN FORESTER (702-228-1863) PRIOR TO BEGINNING WORK ADJACENT TO TREE. PROCEED WITH WORK AS DIRECTED BY THE ENGINEER IF ANY CONFLICT ARISES WITH PROPOSED WORK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
- THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN THE AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- IN ACCORDANCE WITH MS-18, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

GENERAL LAND CONSERVATION NOTES

- NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR PERIMETER CONTROLS.
- ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
- ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS OF BACKFILL.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
- AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

PROJECT DESCRIPTION:

THE CLARENDON CIRCLE IMPROVEMENTS PROJECT CONSISTS OF REMOVING, REPLACING AND/OR INSTALLING CURB & GUTTER, STORM SEWER PIPES & STRUCTURES, CONCRETE SIDEWALKS, DRIVEWAY APRONS, MEDIANS, ADA COMPLIANT CURB CUT RAMPS AND INSTALLING NEW SIGNALS, STREET LIGHTS AND TREES. THE LIMIT OF CONSTRUCTION IS WITHIN THE EXISTING COUNTY R-0-W EXCEPT IN SOME LOCATIONS WHEREIN THE COUNTY HAS OBTAINED THE NECESSARY EASEMENTS FROM THE PROPERTY OWNERS. 2.49 ACRES OF ROADWAY AREA WILL BE DISTURBED DURING CONSTRUCTION.

EXISTING SITE CONDITIONS:

THE HIGHEST POINTS OF THE PROJECT AREA ARE ALONG SB WILSON BLVD. AT THE NORTHEAST END AND ALONG NORTH IRVING, JUST NORTH OF THE INTERSECTION WITH WILSON BLVD. THE PROJECT AREA IS RELATIVELY FLAT AND DRAINS TOWARDS THE PROPOSED CLOSED LEG OF NORTH IRVING STREET AND SOUTH DOWN WILSON BLVD. EXISTING STORM SEWER SYSTEMS ARE LOCATED UNDER THE EXISTING INTERSECTION, CARRYING RUNOFF SOUTH DOWN WILSON & WASHINGTON BLVDs.

ADJACENT PROPERTIES:

COMMERCIAL & MIX-USED PROPERTIES ARE LOCATED ON EITHER SIDE OF WILSON BLVD. & WASHINGTON BLVD FOR THEIR LENGTH WITHIN THE PROJECT LIMITS.

OFF-SITE AREAS:

THE EXTENT OF OFFSITE CONSTRUCTION IS LIMITED TO CONNECTING TO THE EXISTING PUBLIC AND PRIVATE STREETS ADJACENT TO THE IMPROVEMENTS.

CRITICAL AREAS:

THERE ARE NO STEEP SLOPES OR CRITICAL AREAS LOCATED IN THE AREAS TO BE DISTURBED.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SILT FENCE, INLET PROTECTION, AND TREE PROTECTION/REMOVAL. INLET PROTECTION MAY BE REQUIRED OUTSIDE THE PROJECT LIMITS WHEN WATER FROM DISTURBED AREA WILL FLOW OFFSITE.

PERMANENT STABILIZATION:

ALL OF THE AREA DISTURBED WITH THIS PLAN WILL BE PERMANENTLY STABILIZED. ALL UNPAVED AREAS WILL BE STABILIZED WITH GRASS OR MULCH.

STORMWATER RUNOFF CONSIDERATIONS:

THE EXISTING STORM SEWER SYSTEM WILL BE USED TO DRAIN THE STORMWATER RUNOFF.

EROSION & SEDIMENT CONTROL PROGRAM:

- THE EROSION CONTROL PLAN IS INTENDED TO ESTABLISH ENTRANCES AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF), INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.
- THE SEDIMENT MEASURES ARE INTENDED TO PROVIDE CONTROL DURING THE FINAL STAGES OF IMPROVEMENTS. IT IS ANTICIPATED THAT PHASE-ONE CONTROLS WILL REMAIN IN PLACE UNTIL THEIR REMOVAL IS REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS.
- NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY ARLINGTON COUNTY.
- WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL SHALL BE PLACED IN STREAMBEDS. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 14 DAYS SHALL BE SEEDED AND MULCHED. WHEN SPOIL IS PLACED ON THE DOWNHILL SIDE OF TRENCH, IT SHALL BE BACKSLOPED TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE SHALL OUTLET IN A STABILIZED AREA OR A SEDIMENT TRAPPING DEVICE.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION
- ALL PRACTICES AND CONTROL DEVICES DESCRIBED HEREON, SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:
 - CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS, AND SHALL WORK THOSE AREAS TO MINIMIZE THE EXTENT OF HEAVY EQUIPMENT WORK. CONTRACTOR SHALL STRIVE TO BRING AREAS TO GRADE (ROUGH OR FINISH) AND TO STABILIZE, BY TEMPORARY OR PERMANENT VEGETATION, THESE DISTURBED AREAS PRIOR TO BEGINNING WORK IN ANOTHER AREA.
 - FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE LEFT ROUGHENED TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL RE-DIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTURBED AREAS TO STABILIZED OUTLETS.
 - CUT SLOPE, AS NECESSARY, SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS ABOVE THE SLOPE AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.
 - IN NEW PAVEMENT AREAS, PLACE THE AGGREGATE BASE STONE ON THE FINISH SUBGRADE AT THE EARLIEST POSSIBLE TIME.

MAINTENANCE PROGRAM:

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

- THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREA (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDED AND MULCHING OR RE-SODDING IF NECESSARY.
- ALL SEDIMENT TRAPPING DEVICES SHALL BE CLEARED OUT AT 50% TRAP CAPACITY AND THE SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE DUMP SITE.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT MUD AND/OR OTHER DEBRIS FROM BEING ENTERED ONTO EXISTING SWM/BMP FACILITIES OR DOWN STREAM WATER WAYS. SHOULD OFF SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE EFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.
- AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ANY REMAINING DENUDED AREAS SHALL BE STABILIZED. CERTAIN DEVICES MAY BE REMOVED PRIOR TO CONSTRUCTION COMPLETION BUT ONLY WITH THE APPROVAL OF THE COUNTY INSPECTOR.
- AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS SHALL BE STABILIZED. UPON APPROVAL OF THE COUNTY INSPECTOR, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION WITHIN 30 DAYS.

TEMPORARY SEEDING:

SEE SHEET III-288 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES. THE REQUIREMENTS OF THE "SOUTH" PLANTING REQUIREMENTS SHALL BE FOLLOWED. LIMING SHALL BE BASED ON TABLE 3.31-A OF VESCH. FERTILIZERS SHALL BE APPLIED AS 600 LB/ACRE. THE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2-4" OF SOIL. SEED SHALL BE EVENLY APPLIED AND SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5" DEEP. SEEDING MADE IN FALL FOR WINTER COVER AND DURING HOT SUMMER MONTHS SHALL BE MULCHED.

PERMANENT SEEDING:

THE SUBJECT SITE IS LOCATED IN THE COASTAL PLAIN AREA OF VIRGINIA, SO SHEET III-304 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.

SODDING:

SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TEST SHOULD BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. PRIOR TO LAYING SOD, SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS AND LARGE OBJECTS. QUALITY OF SOD SHALL BE STATE CERTIFIED AND ENSURE GENETIC PURITY AND HIGH QUALITY. SOD SHALL NOT BE LAID IN EXCESSIVELY WET OR DRY WEATHER AND BE DELIVERED AND INSTALLED WITHIN 36 HOURS. SOD SHOULD NOT BE LAID ON FROZEN SOIL SURFACE AND SHALL BE INSTALLED PER PAGE III-359 OF VESCH.

DUST CONTROL:

DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS TO INCLUDE VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE, BARRIERS, AND CALCIUM CHLORIDE. THE IMPLEMENTATION OF THE DUST CONTROL METHODS SHALL BE INSTALLED PER SECTION 3.39 OF VESCH.

UTILITY INSTALLATION:

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

- NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

PHASE 1 AND 2 NARRATIVE:

- PRIOR TO ANY GRADING/CLEARING, PLACE EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PHASE 1 E&S SHEETS (SEE SHEETS 6-6A). SEE SHEET 5A FOR E&S DETAILS.
- FOLLOWING THE MOT PHASES (SEE SHEETS 34-39), PHASE 1 EROSION AND SEDIMENT CONTROL MEASURES WILL BE PLACED WITHIN THE ACTIVE CONSTRUCTION SEGMENTS AND ANY DOWNSTREAM AREA. AS A SEGMENT'S CONSTRUCTION IS COMPLETED, REPLACE THE PHASE 1 MEASURES WITH THE CONTROLS AS SHOWN FOR PHASE 2 (SEE SHEETS (6B-6C)).
- MAINTAIN THE PHASE 2 EROSION AND SEDIMENT CONTROLS AS THEY REMAIN DOWNSTREAM OF THE ACTIVE CONSTRUCTION SEGMENTS AND REMOVE ONCE THE UPSTREAM CONSTRUCTION SEGMENTS ARE PERMANENTLY STABILIZED.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

FOR ALL DETAILS AND SPECIFICATIONS, SEE THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK

Sheet **5**

Project Name and Location

Clarendon Circle Improvements

EROSION & SEDIMENT CONTROL NOTES

Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: MJA
Drawn: MJA
Checked: LRN
Miss Utility Transmittal #: 5057

Filename: 5_Erosion and Sediment Control Notes.dwg
Path: M:\projects\2011\1192_Arlington Multimodal\Task 3 - Clarendon Circle\2011\1192\ClarendonPlan
Plotted: May 19, 2016
Plotted by: marnone

Scale: N.T.S.

Sheet

EROSION AND SEDIMENT CONTROL SEEDING SPECIFICATIONS

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10-10-10 fertilizer at a rate of 450 lbs / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
3 - When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

TABLE 3.32-E
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA

SEED		
LAND USE	SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ¹ or Bermudagrass ¹	175 - 200 lbs 75 lbs
	Tall Fescue ¹ or Bermudagrass ¹ (seed) or Bermudagrass ¹ (by other vegetative establishment method, see Std. & Spec. 3.34)	200-250 lbs 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ²	128 lbs 2 lbs 20 lbs TOTAL: 150 lbs
	Tall Fescue ¹ Bermudagrass ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ² Sericea Lespedeza ²	93-108 lbs 0-15 lbs 2 lbs 20 lbs 20 lbs TOTAL: 150 lbs

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

ARLINGTON COUNTY RESPONSIBLE LAND DISTURBER LETTER

date

Quanjan Li, P.E.
ESC Program Administrator
Department of Environmental Services
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

street address

lot, block, section subdivision

permit number

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
4. Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
5. Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
6. Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
7. Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at _____ with questions about this plan or my execution of the duties of
_____ telephone number
Responsible Land Disturber.

Sincerely,

signed

name printed

professional registration (type and number)



Seal

ARLINGTON COUNTY PRE-STORM EROSION AND SEDIMENT CONTROL CHECKLIST

Pre-Storm Erosion and Sediment Control Checklist

Per Erosion and Sediment Control General Note 6, the Contractor is responsible for the installation and maintenance of any additional erosion and sediment control (ESC) measures necessary to prevent erosion and sedimentation as determined by the County. These supplementary practices are in addition to those shown in an ESC plan. ESC practices shall be modified as needed to ensure only clear water is discharged from the site.

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

Perimeter controls

- Silt fence shall be checked for undermining, holes, or deterioration of the fabric. Fencing shall be replaced immediately if the fabric is damaged or worn. Silt fence must be trenched into the ground per state specifications (Std & Spec 3.09).
- Wooden stakes or steel posts shall be properly secured upright into the ground. Damaged posts or stakes must be replaced.
- Sediment that has accumulated against the silt fence should be removed. Accumulated sediment must be removed when the level reaches one-half the height of the fencing.
- Hay bales or a stone berm should be placed across the construction entrance to prevent sediment from leaving the construction site.

Exposed slopes and soil

- Exposed slopes not at the final stabilization phase shall be covered with tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
- Controls shall be installed to prevent concentrated flow down an exposed slope. Berms or diversion dikes shall be installed at the top of cut / exposed slopes to direct storm flow around the disturbed area.
- Exposed slopes at the final stabilization phase shall be stabilized using slope stabilization practices such as soil stabilization blankets or matting as specified in the Virginia Erosion and Sediment Control Handbook (VESCH) Std & Spec 3.36. Blankets or mats must be properly secured and anchored to the slope using staples, pins, or stakes.
- Seeded areas shall be checked and reseeded as necessary to cover exposed soil. Recently seeded areas shall be protected by straw or soil stabilization blankets to prevent seeding from being washed away.

Stockpiles

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

Inlet protection

- Inlet protection controls shall be inspected to ensure they are functioning properly and flooding will not occur. Clogged or damaged controls must be replaced immediately. Ensure controls allow for overflow / bypass of stormwater runoff during significant storm events.

In addition to these pre-storm actions, all erosion and sediment control (ESC) measures must be checked daily and after each significant rainfall.

FOR ALL DETAILS AND SPECIFICATIONS, SEE THE VIRGINIA
EROSION & SEDIMENT CONTROL HANDBOOK

Sheet **5B**

Project Name and Location
Clarendon Circle Improvements
EROSION & SEDIMENT CONTROL DETAILS
Wilson Blvd. at Washington Blvd.

Designed: MJA
Drawn: MJA
Checked: LRN
Miss Utility Transmittal #: 5057

Filename: 5_Erosion and Sediment Control Notes.dwg
Path: M:\projects\2011\11162_Arlington Multimodal\Task 3 - Clarendon Circle\2011\11162_Arlington Multimodal\Plan
Plotted: May 16, 2016
Plotted by: marnone

Scale: N.T.S.

Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Project Name and Location
Clarendon Circle Improvements
EROSION & SEDIMENT CONTROL PLAN
PHASE 1
Wilson Blvd. at Washington Blvd.

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 6_E&S Phase 1 Plan Sheet.dwg
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Plotted: May 26, 2016
Plotted by: marnone

Scale: Hor.: 1"=25'

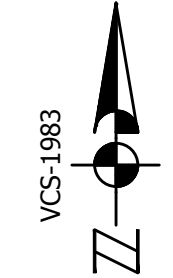
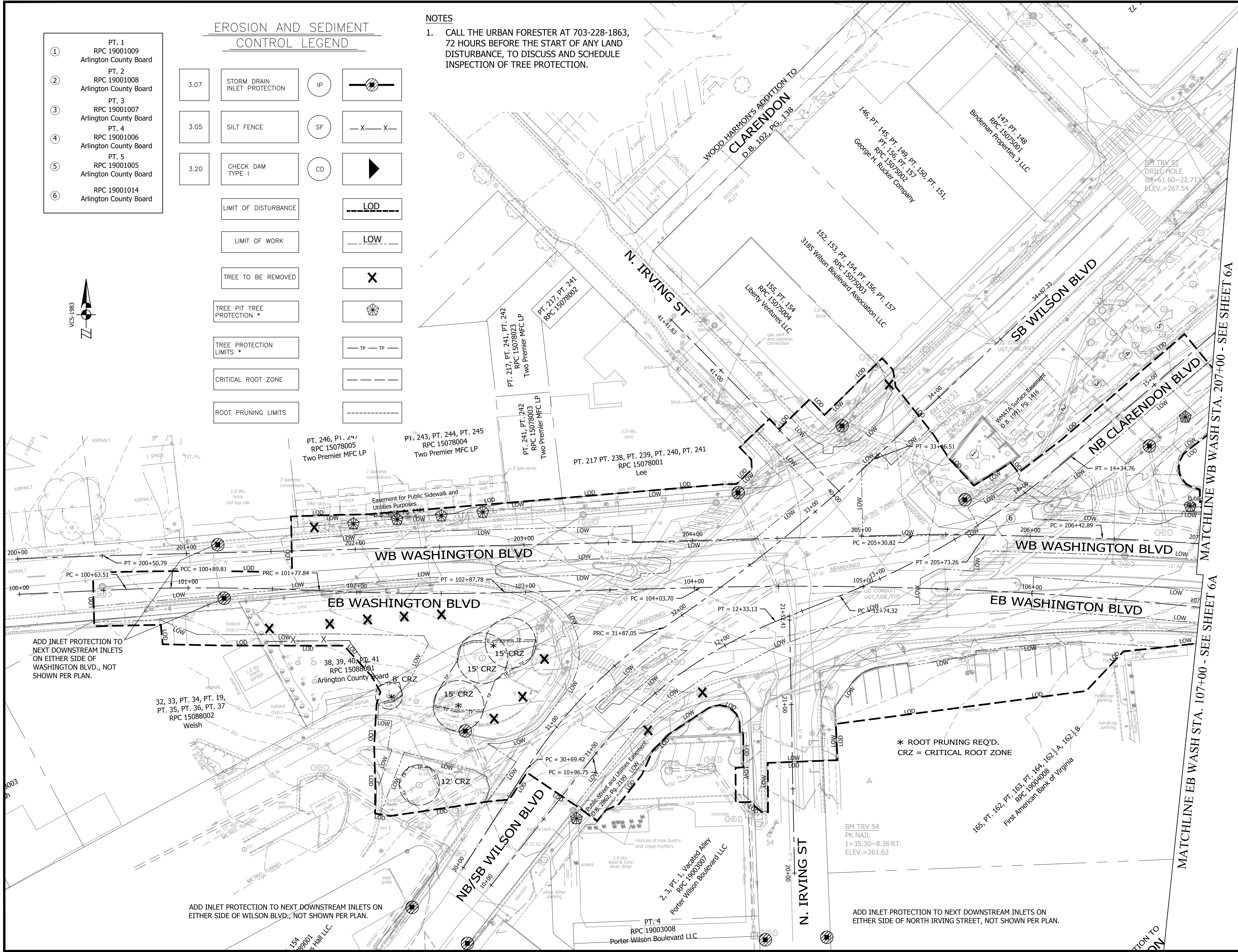
Sheet **6**

EROSION AND SEDIMENT CONTROL LEGEND

- ① PT. 1
RPC 19001009
Arlington County Board
- ② PT. 2
RPC 19001008
Arlington County Board
- ③ PT. 3
RPC 19001007
Arlington County Board
- ④ PT. 4
RPC 19001006
Arlington County Board
- ⑤ PT. 5
RPC 19001005
Arlington County Board
- ⑥ RPC 19001014
Arlington County Board

3.07	STORM DRAIN INLET PROTECTION	IP	
3.05	SILT FENCE	SF	
3.20	CHECK DAM TYPE I	CD	
	LIMIT OF DISTURBANCE		
	LIMIT OF WORK		
	TREE TO BE REMOVED		
	TREE PIT TREE PROTECTION *		
	TREE PROTECTION LIMITS *		
	CRITICAL ROOT ZONE		
	ROOT PRUNING LIMITS		

NOTES
1. CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE THE START OF ANY LAND DISTURBANCE, TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION.



ADD INLET PROTECTION TO NEXT DOWNSTREAM INLETS ON EITHER SIDE OF WASHINGTON BLVD., NOT SHOWN PER PLAN.

ADD INLET PROTECTION TO NEXT DOWNSTREAM INLETS ON EITHER SIDE OF WILSON BLVD., NOT SHOWN PER PLAN.

* ROOT PRUNING REQ'D.
CRZ = CRITICAL ROOT ZONE

ADD INLET PROTECTION TO NEXT DOWNSTREAM INLETS ON EITHER SIDE OF NORTH IRVING STREET, NOT SHOWN PER PLAN.

MATCHLINE WB WASH STA. 207+00 - SEE SHEET 6A

MATCHLINE EB WASH STA. 107+00 - SEE SHEET 6A

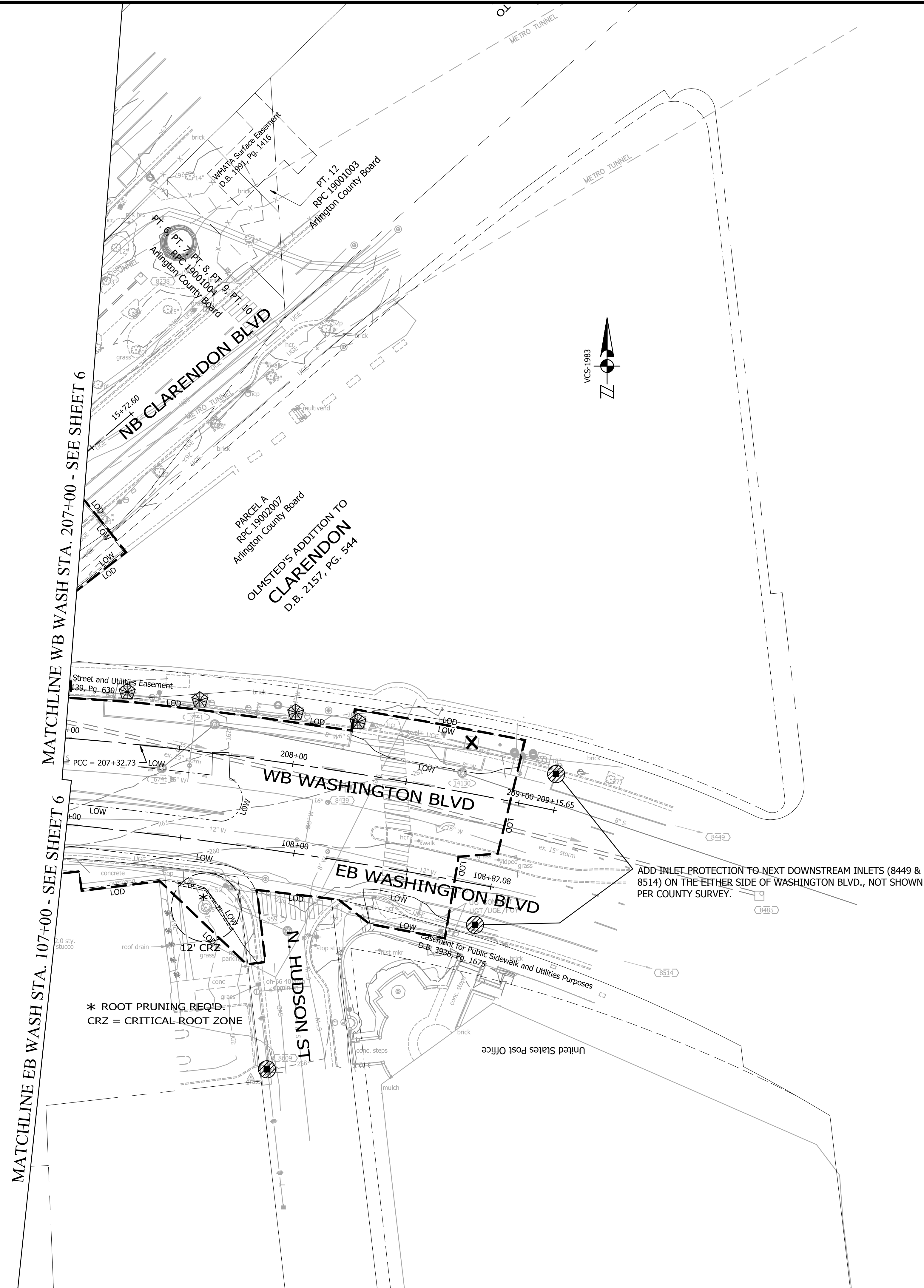
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NOTES

1. CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE THE START OF ANY LAND DISTURBANCE, TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION.

EROSION AND SEDIMENT CONTROL LEGEND

3.07	STORM DRAIN INLET PROTECTION	IP	
3.05	SILT FENCE	SF	
3.20	CHECK DAM TYPE I	CD	
	LIMIT OF DISTURBANCE		
	LIMIT OF WORK		
	TREE TO BE REMOVED		
	TREE PIT TREE PROTECTION *		
	TREE PROTECTION LIMITS *		
	CRITICAL ROOT ZONE		
	ROOT PRUNING LIMITS		



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Project Name and Location

Clarendon Circle Improvements
EROSION & SEDIMENT CONTROL PLAN
PHASE 1
 Wilson Blvd. at Washington Blvd.

314-43513.DWG, S16.0000

Designed: MJA
 Drawn: MJA
 Checked: MRM
 Miss Utility Transmittal #: 5057

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 3 - Clarendon Circle\CADD\Civil\3d\ClarendonPlan
 Plotted: May 27, 2016
 Plotted by: icathcart

Scale: Hor.: 1"=25'

Sheet **6A**

Seal

Approvals _____ Date _____
DESIGN TEAM SUPERVISOR _____
CONSTRUCTION MANAGEMENT SUPERVISOR _____
WATER, SEWER STREETS BUREAU CHIEF _____
TRANSPORTATION DIRECTOR _____
PROJECT MANAGER _____

Revisions _____ Date _____

Project Name and Location
Clarendon Circle Improvements
EROSION & SEDIMENT CONTROL PLAN
PHASE 2
Wilson Blvd. at Washington Blvd.

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

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Plotted: May 26, 2016
Plotted by: marnone

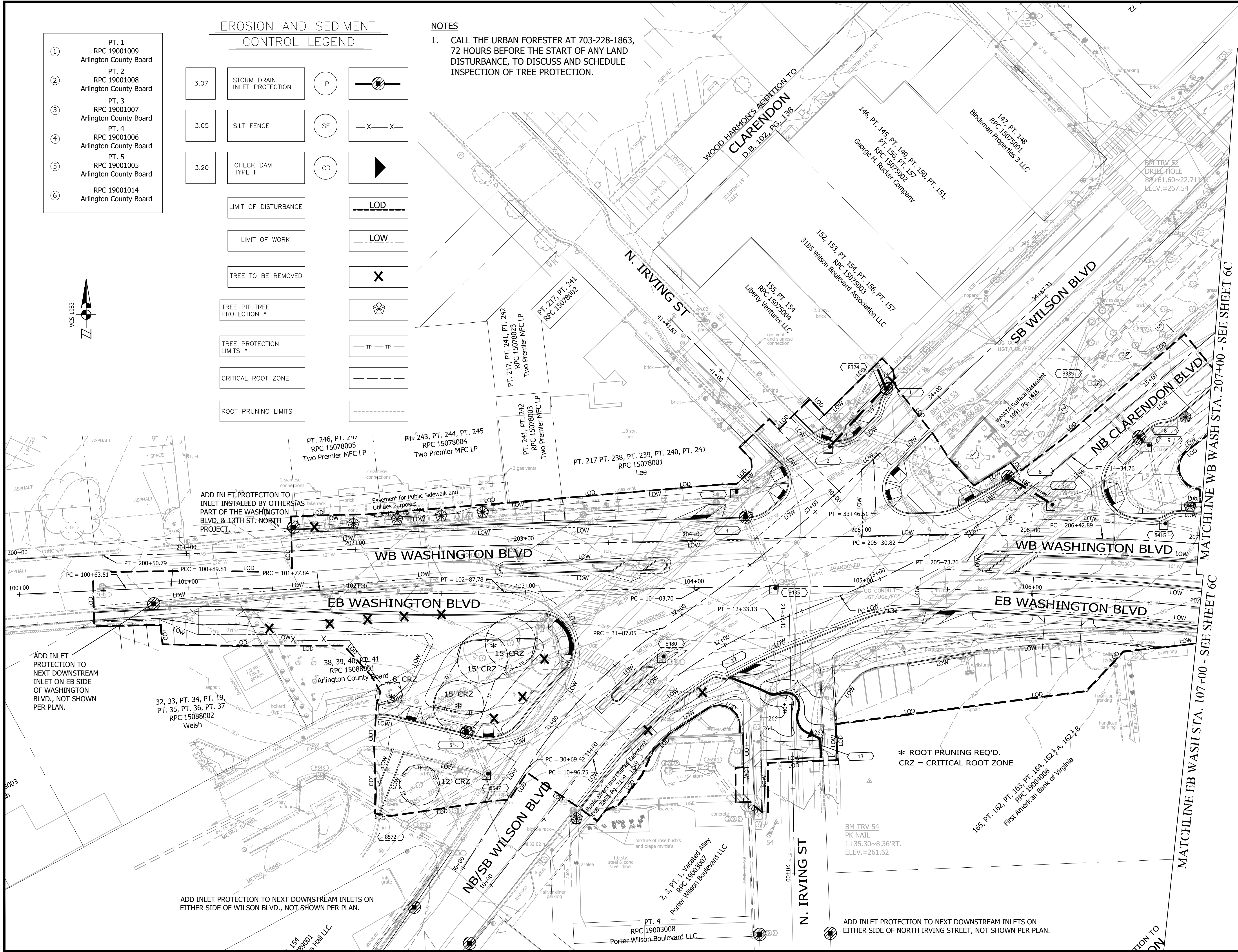
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Sheet **6B**

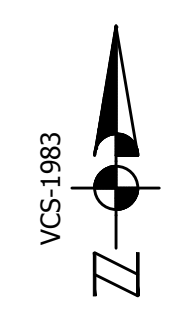
EROSION AND SEDIMENT CONTROL LEGEND

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3.05	SILT FENCE	SF	
3.20	CHECK DAM TYPE I	CD	
	LIMIT OF DISTURBANCE		
	LIMIT OF WORK		
	TREE TO BE REMOVED		
	TREE PIT TREE PROTECTION *		
	TREE PROTECTION LIMITS *		
	CRITICAL ROOT ZONE		
	ROOT PRUNING LIMITS		

NOTES
1. CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE THE START OF ANY LAND DISTURBANCE, TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION.



- ① PT. 1
RPC 19001009
Arlington County Board
- ② PT. 2
RPC 19001008
Arlington County Board
- ③ PT. 3
RPC 19001007
Arlington County Board
- ④ PT. 4
RPC 19001006
Arlington County Board
- ⑤ PT. 5
RPC 19001005
Arlington County Board
- ⑥ RPC 19001014
Arlington County Board



MATCHLINE WB WASH STA. 207+00 - SEE SHEET 6C

MATCHLINE EB WASH STA. 107+00 - SEE SHEET 6C

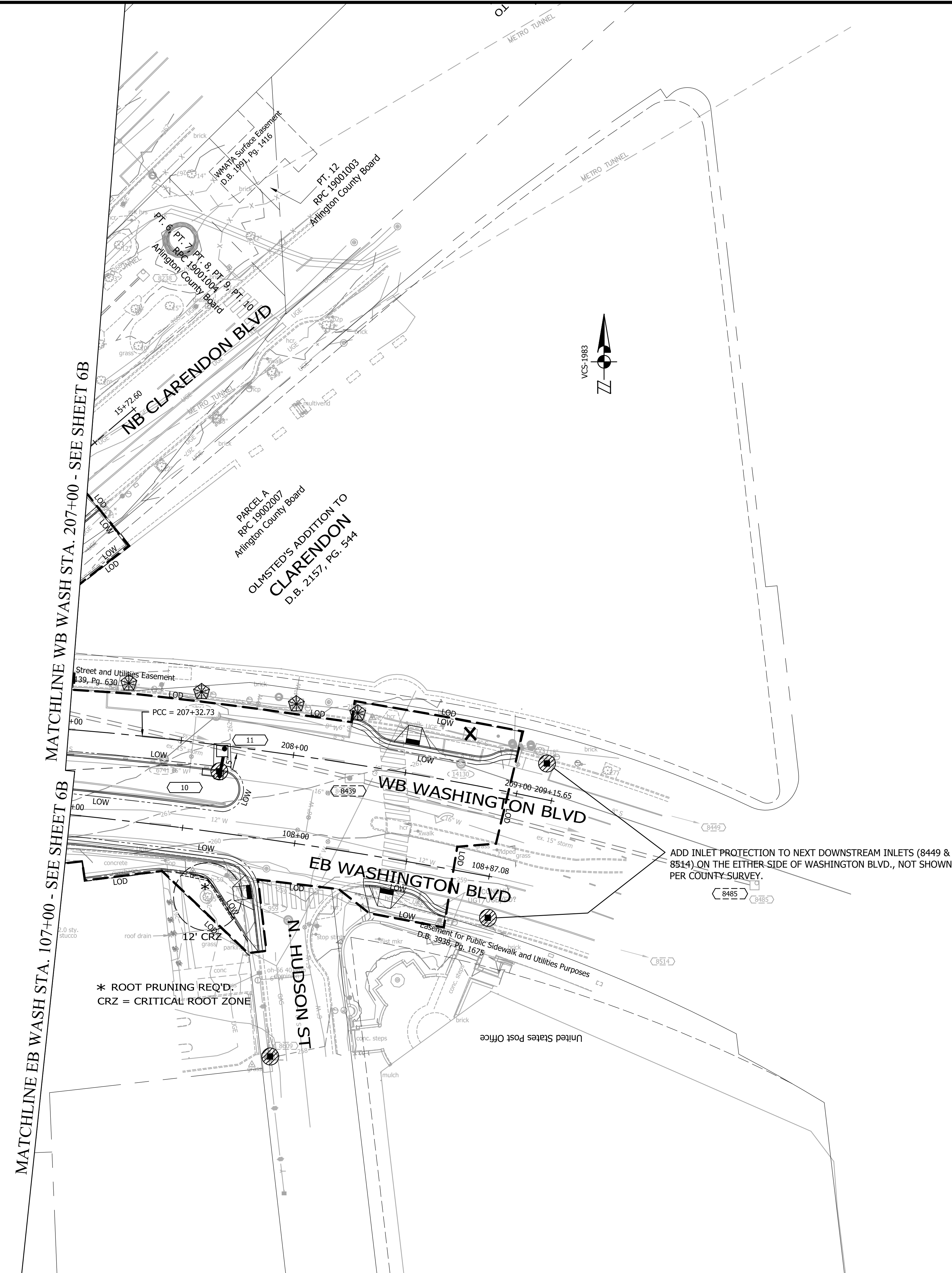
MATCHLINE TO DIV

NOTES

1. CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE THE START OF ANY LAND DISTURBANCE, TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION.

EROSION AND SEDIMENT CONTROL LEGEND

3.07	STORM DRAIN INLET PROTECTION	IP	
3.05	SILT FENCE	SF	
3.20	CHECK DAM TYPE I	CD	
	LIMIT OF DISTURBANCE		
	LIMIT OF WORK		
	TREE TO BE REMOVED		
	TREE PIT TREE PROTECTION *		
	TREE PROTECTION LIMITS *		
	CRITICAL ROOT ZONE		
	ROOT PRUNING LIMITS		



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Revisions	Date

Project Name and Location
Clarendon Circle Improvements
 EROSION & SEDIMENT CONTROL PLAN
 PHASE 2
 Wilson Blvd. at Washington Blvd.

Designed: MJA
 Drawn: MJA
 Checked: MRM
 Miss Utility Transmittal #: 5057

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 Plotted: May 27, 2016
 Plotted by: icathcart

Scale: Hor.: 1"=25'

Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Clarendon Circle Improvements

PLAN SHEET

Wilson Blvd. at Washington Blvd.

314-43513.DWG, S16.0000

Designed: IJC
Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 7_Plan Sheet.dwg
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Plotted by: marnone
Date: May 27, 2016

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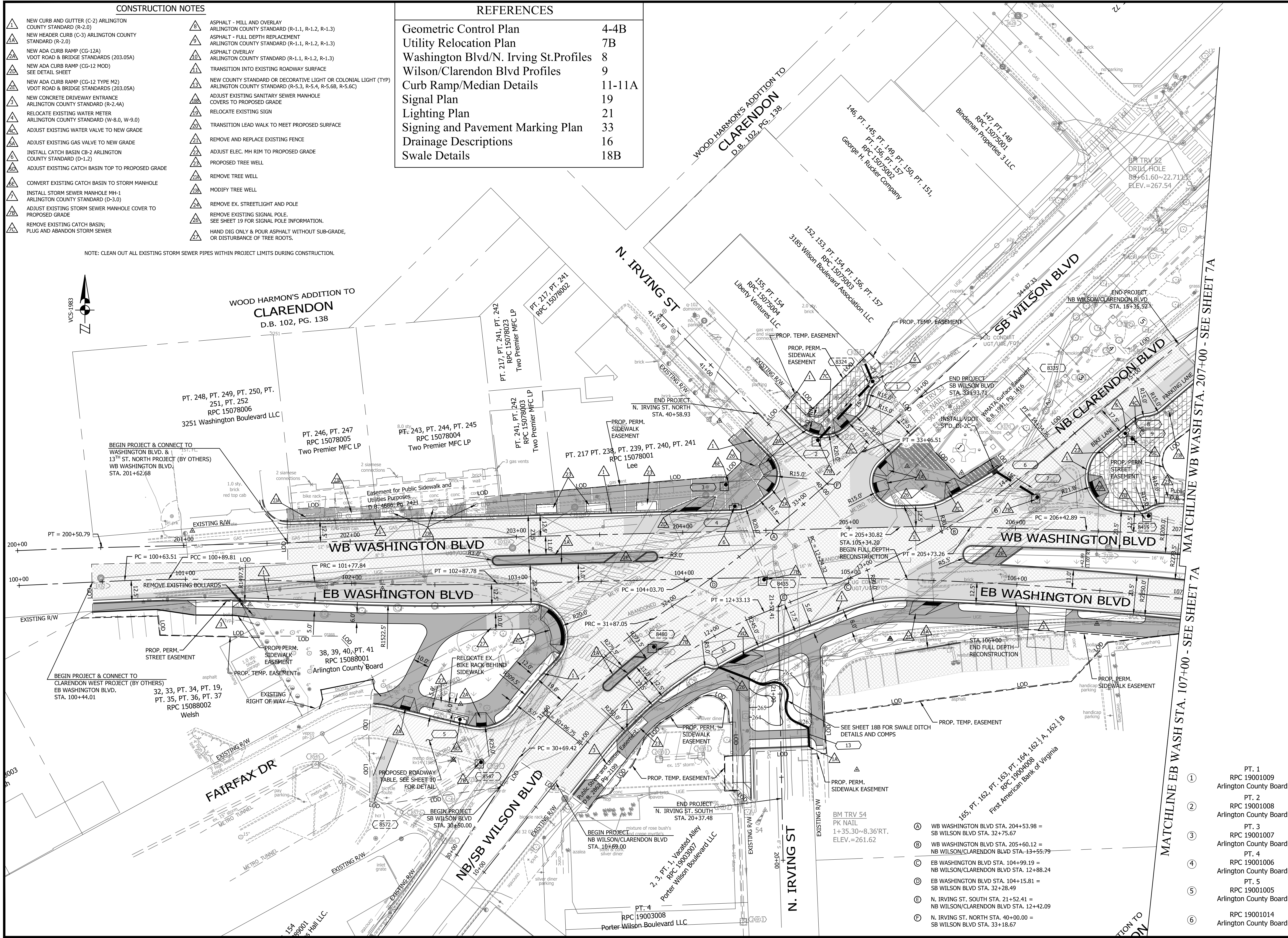
Sheet **7**

CONSTRUCTION NOTES

NEW CURB AND GUTTER (C-2) ARLINGTON COUNTY STANDARD (R-2.0)	ASPHALT - MILL AND OVERLAY ARLINGTON COUNTY STANDARD (R-1.1, R-1.2, R-1.3)
NEW HEADER CURB (C-3) ARLINGTON COUNTY STANDARD (R-2.0)	ASPHALT - FULL DEPTH REPLACEMENT ARLINGTON COUNTY STANDARD (R-1.1, R-1.2, R-1.3)
NEW ADA CURB RAMP (CG-12A)	ASPHALT OVERLAY ARLINGTON COUNTY STANDARD (R-1.1, R-1.2, R-1.3)
VDOT ROAD & BRIDGE STANDARDS (203.05A)	TRANSITION INTO EXISTING ROADWAY SURFACE
NEW ADA CURB RAMP (CG-12 MOD) SEE DETAIL SHEET	NEW COUNTY STANDARD OR DECORATIVE LIGHT OR COLONIAL LIGHT (TYP) ARLINGTON COUNTY STANDARD (R-5.3, R-5.4, R-5.6B, R-5.6C)
NEW ADA CURB RAMP (CG-12 TYPE M2) VDOT ROAD & BRIDGE STANDARDS (203.05A)	ADJUST EXISTING SANITARY SEWER MANHOLE COVERS TO PROPOSED GRADE
NEW CONCRETE DRIVEWAY ENTRANCE ARLINGTON COUNTY STANDARD (R-2.4A)	RELOCATE EXISTING SIGN
RELOCATE EXISTING WATER METER ARLINGTON COUNTY STANDARD (W-8.0, W-9.0)	TRANSITION LEAD WALK TO MEET PROPOSED SURFACE
ADJUST EXISTING WATER VALVE TO NEW GRADE	REMOVE AND REPLACE EXISTING FENCE
ADJUST EXISTING GAS VALVE TO NEW GRADE	ADJUST ELEC. MH RIM TO PROPOSED GRADE
INSTALL CATCH BASIN CB-2 ARLINGTON COUNTY STANDARD (D-1.2)	PROPOSED TREE WELL
ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE	REMOVE TREE WELL
CONVERT EXISTING CATCH BASIN TO STORM MANHOLE	MODIFY TREE WELL
INSTALL STORM SEWER MANHOLE MH-1 ARLINGTON COUNTY STANDARD (D-3.0)	REMOVE EX. STREETLIGHT AND POLE
ADJUST EXISTING STORM SEWER MANHOLE COVER TO PROPOSED GRADE	REMOVE EXISTING SIGNAL POLE. SEE SHEET 19 FOR SIGNAL POLE INFORMATION.
REMOVE EXISTING CATCH BASIN; PLUG AND ABANDON STORM SEWER	HAND DIG ONLY & POUR ASPHALT WITHOUT SUB-GRADE, OR DISTURBANCE OF TREE ROOTS.

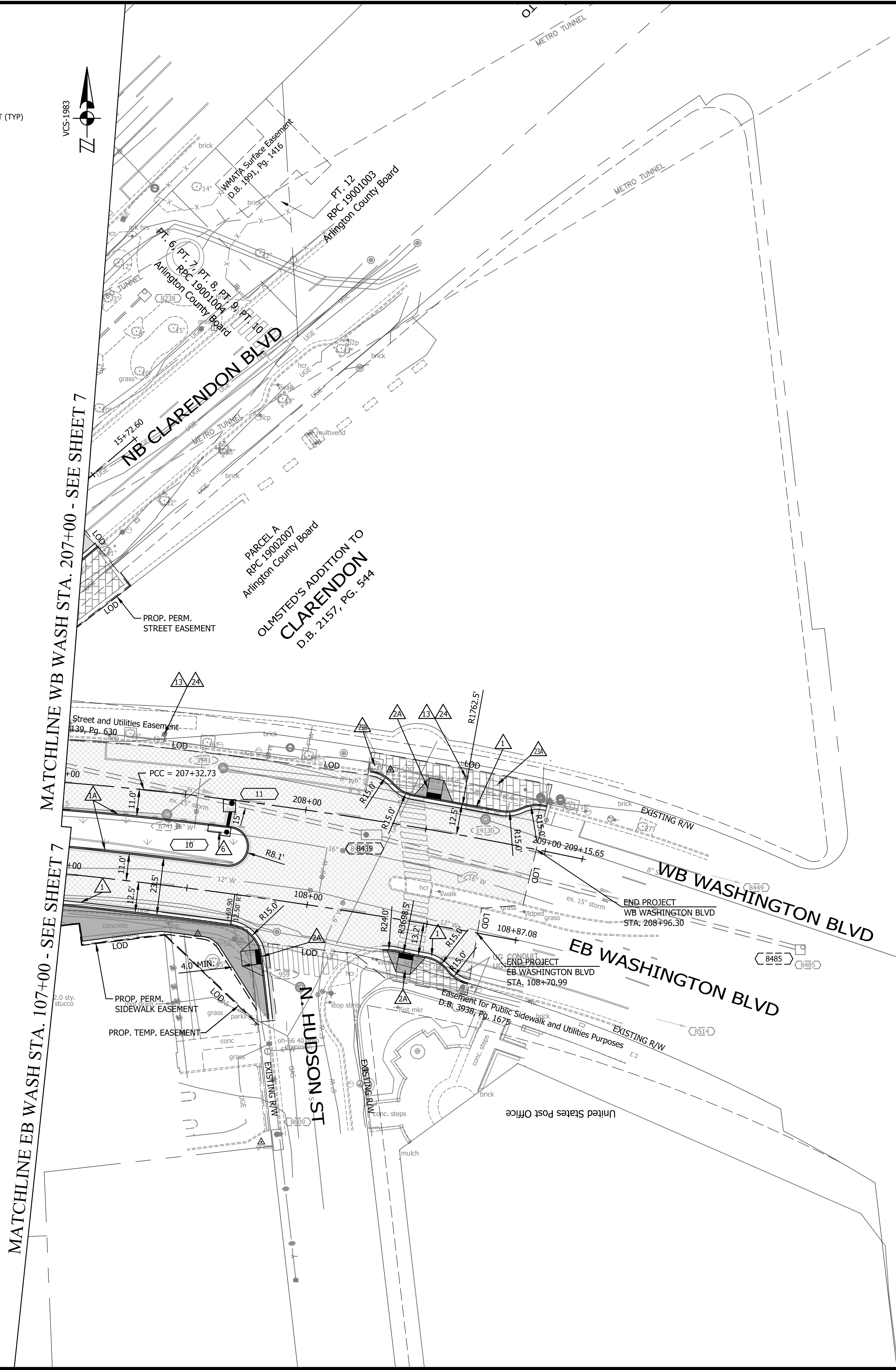
REFERENCES

Geometric Control Plan	4-4B
Utility Relocation Plan	7B
Washington Blvd/N. Irving St.Profiles	8
Wilson/Clarendon Blvd Profiles	9
Curb Ramp/Median Details	11-11A
Signal Plan	19
Lighting Plan	21
Signing and Pavement Marking Plan	33
Drainage Descriptions	16
Swale Details	18B



- CONSTRUCTION NOTES**
- △ NEW CURB AND GUTTER (C-2) ARLINGTON COUNTY STANDARD (R-2.0)
 - △ NEW HEADER CURB (C-3) ARLINGTON COUNTY STANDARD (R-2.0)
 - △ NEW ADA CURB RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (203.05A)
 - △ NEW ADA CURB RAMP (CG-12 MOD) SEE DETAIL SHEET
 - △ NEW ADA CURB RAMP (CG-12 TYPE M2) VDOT ROAD & BRIDGE STANDARDS (203.05A)
 - △ NEW CONCRETE DRIVEWAY ENTRANCE ARLINGTON COUNTY STANDARD (R-2.4A)
 - △ RELOCATE EXISTING WATER METER ARLINGTON COUNTY STANDARD (W-8.0, W-9.0)
 - △ ADJUST EXISTING WATER VALVE TO NEW GRADE
 - △ ADJUST EXISTING GAS VALVE TO NEW GRADE
 - △ INSTALL CATCH BASIN CB-2 ARLINGTON COUNTY STANDARD (D-1.2)
 - △ ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE
 - △ CONVERT EXISTING CATCH BASIN TO STORM MANHOLE
 - △ INSTALL STORM SEWER MANHOLE MH-1 ARLINGTON COUNTY STANDARD (D-3.0)
 - △ ADJUST EXISTING STORM SEWER MANHOLE COVER TO PROPOSED GRADE
 - △ REMOVE EXISTING CATCH BASIN; PLUG AND ABANDON STORM SEWER
 - △ ASPHALT - MILL AND OVERLAY ARLINGTON COUNTY STANDARD (R-1.1, R-1.2, R-1.3)
 - △ ASPHALT - FULL DEPTH REPLACEMENT ARLINGTON COUNTY STANDARD (R-1.1, R-1.2, R-1.3)
 - △ ASPHALT OVERLAY ARLINGTON COUNTY STANDARD (R-1.1, R-1.2, R-1.3)
 - △ TRANSITION INTO EXISTING ROADWAY SURFACE
 - △ NEW COUNTY STANDARD OR DECORATIVE LIGHT OR COLONIAL LIGHT (TYP) ARLINGTON COUNTY STANDARD (R-5.3, R-5.4, R-5.6B, R-5.6C)
 - △ ADJUST EXISTING SANITARY SEWER MANHOLE COVERS TO PROPOSED GRADE
 - △ RELOCATE EXISTING SIGN
 - △ TRANSITION LEAD WALK TO MEET PROPOSED SURFACE
 - △ REMOVE AND REPLACE EXISTING FENCE
 - △ ADJUST ELEC. MH RIM TO PROPOSED GRADE
 - △ PROPOSED TREE WELL
 - △ REMOVE TREE WELL
 - △ MODIFY TREE WELL
 - △ REMOVE EX. STREETLIGHT AND POLE
 - △ REMOVE EXISTING SIGNAL POLE. SEE SHEET 19 FOR SIGNAL POLE INFORMATION.
 - △ HAND DIG ONLY & POUR ASPHALT WITHOUT SUB-GRADE, OR DISTURBANCE OF TREE ROOTS.

NOTE: CLEAN OUT ALL EXISTING STORM SEWER PIPES WITHIN PROJECT LIMITS DURING CONSTRUCTION.



REFERENCES

Geometric Control Plan	4-4B
Utility Relocation Plan	7C
Washington Blvd/N. Irving St. Profiles	8
Wilson/Clarendon Blvd Profiles	9
Curb Ramp/Median Details	11-11A
Signal Plan	19
Lighting Plan	21A
Signing and Pavement Marking Plan	33A



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
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 Fax: 703.228.3606
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Seal

Approvals	Date
DESIGN TEAM SUPERVISOR	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	
PROJECT MANAGER	

Revisions	Date

Project Name and Location
Clarendon Circle Improvements
 PLAN SHEET
 Wilson Blvd. at Washington Blvd.
 314-43513.DWG, S16.0000

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

Filename: 7_Plan Sheet.dwg
 Path: M:\projects\20111192_Arlington Multimodal\Task 3 - Clarendon Circle\CADD\Civil3d\Clarendon\Plan
 Plotted: May 26, 2016
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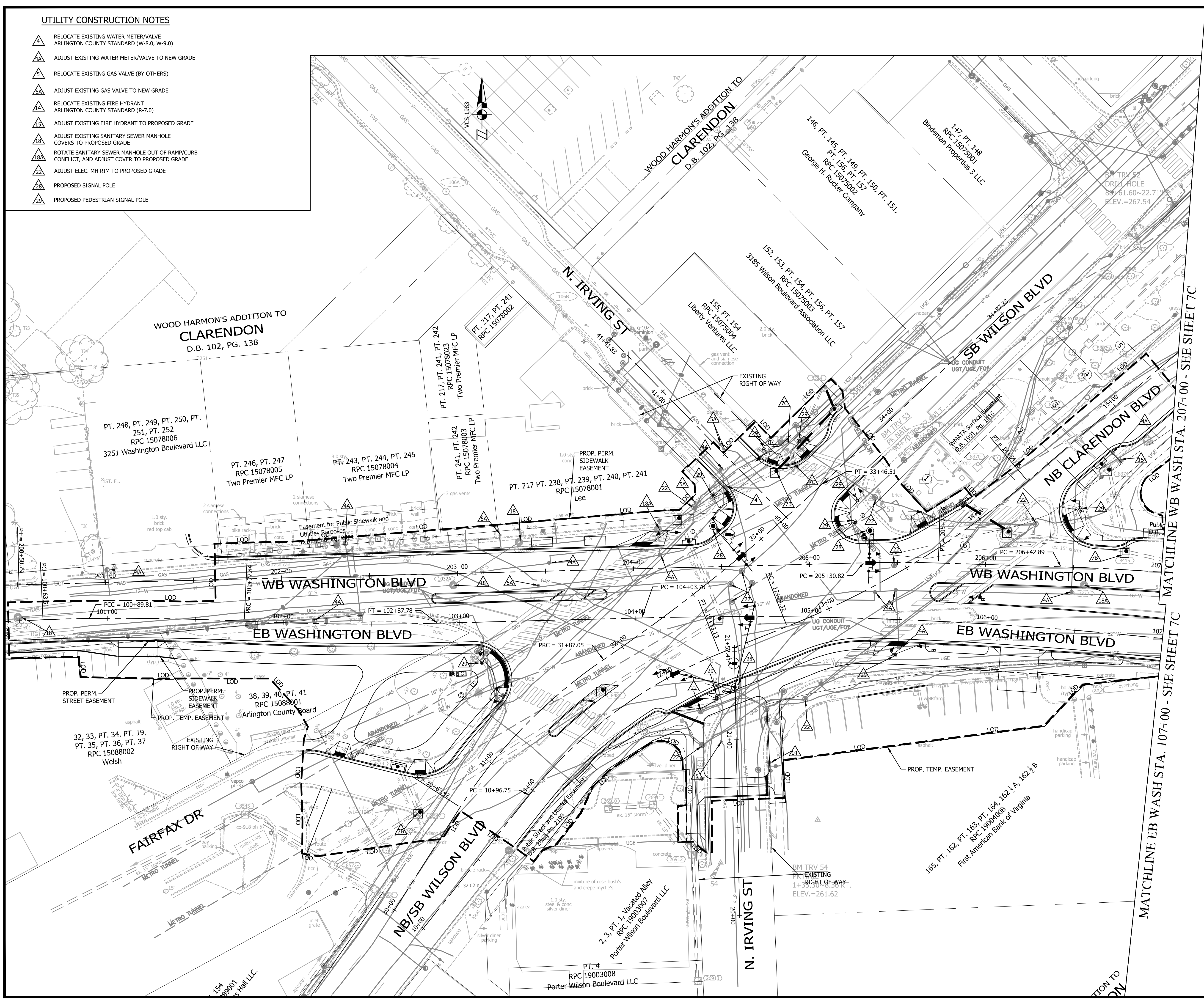
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Sheet **7A**

- ① PT. 1
RPC 19001009
Arlington County Board
- ② PT. 2
RPC 19001008
Arlington County Board
- ③ PT. 3
RPC 19001007
Arlington County Board
- ④ PT. 4
RPC 19001006
Arlington County Board
- ⑤ PT. 5
RPC 19001005
Arlington County Board
- ⑥ RPC 19001014
Arlington County Board

UTILITY CONSTRUCTION NOTES

- △ RELOCATE EXISTING WATER METER/VALVE
ARLINGTON COUNTY STANDARD (W-8.0, W-9.0)
- △_A ADJUST EXISTING WATER METER/VALVE TO NEW GRADE
- △_S RELOCATE EXISTING GAS VALVE (BY OTHERS)
- △_A ADJUST EXISTING GAS VALVE TO NEW GRADE
- △_A RELOCATE EXISTING FIRE HYDRANT
ARLINGTON COUNTY STANDARD (R-7.0)
- △_S ADJUST EXISTING FIRE HYDRANT TO PROPOSED GRADE
- △₁₈ ADJUST EXISTING SANITARY SEWER MANHOLE
COVERS TO PROPOSED GRADE
- △_{18A} ROTATE SANITARY SEWER MANHOLE OUT OF RAMP/CURB
CONFLICT, AND ADJUST COVER TO PROPOSED GRADE
- △_{2A} ADJUST ELEC. MH RIM TO PROPOSED GRADE
- △_{2B} PROPOSED SIGNAL POLE
- △_{2A} PROPOSED PEDESTRIAN SIGNAL POLE



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Project Name and Location
Clarendon Circle Improvements
 UTILITY RELOCATION PLAN SHEET
 Wilson Blvd. at Washington Blvd.

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

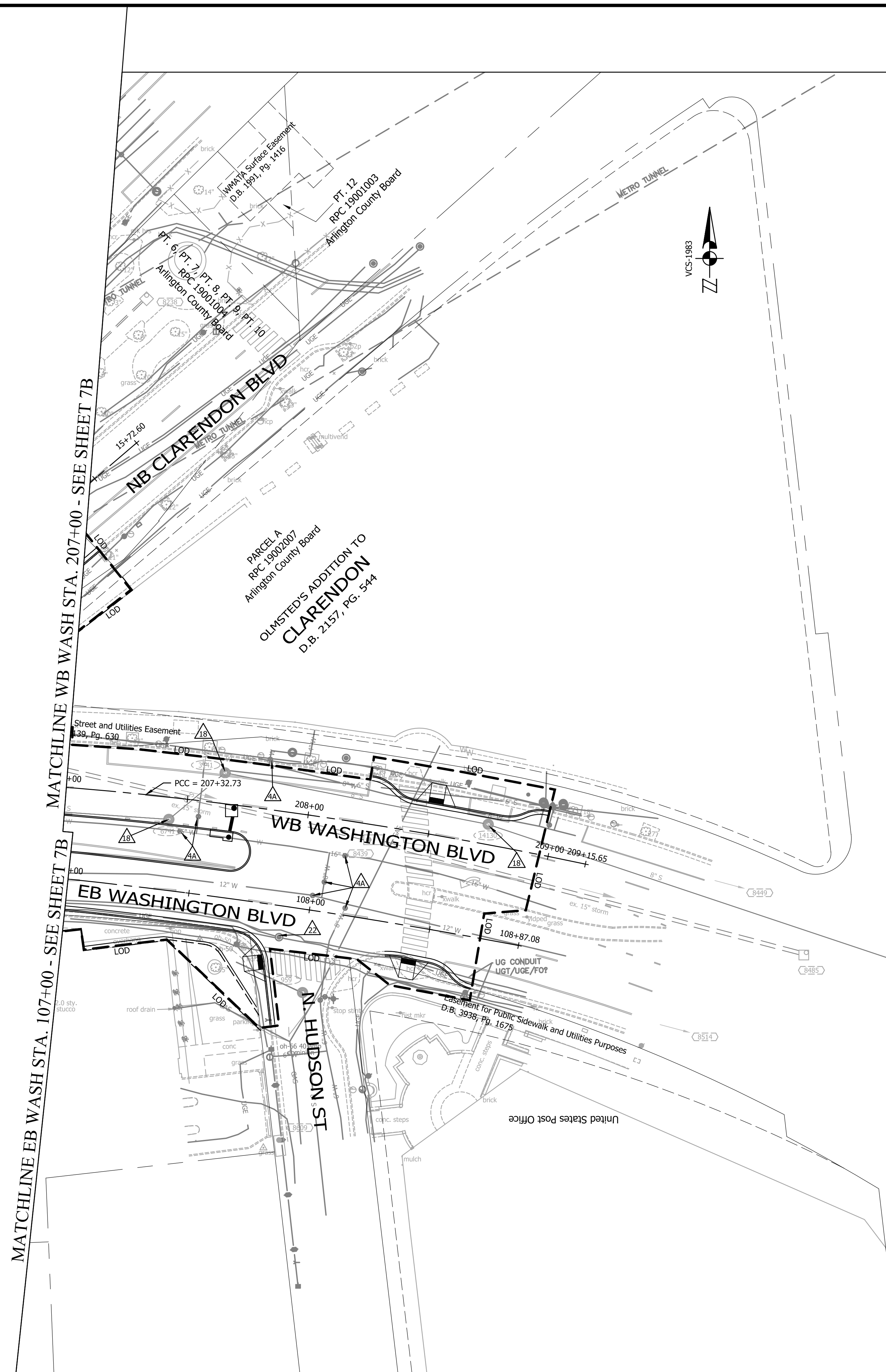
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 3 - Clarendon Circle\CADD\Civil\3d\Clarendon\Plan
 Plotted: May 26, 2016
 Plotted by: marnone

Scale: Hor.: 1"=25'

Sheet **7B**

UTILITY CONSTRUCTION NOTES

- △ RELOCATE EXISTING WATER METER/VALVE
ARLINGTON COUNTY STANDARD (W-8.0, W-9.0)
- △ ADJUST EXISTING WATER METER/VALVE TO NEW GRADE
- △ RELOCATE EXISTING GAS VALVE (BY OTHERS)
- △ ADJUST EXISTING GAS VALVE TO NEW GRADE
- △ RELOCATE EXISTING FIRE HYDRANT
ARLINGTON COUNTY STANDARD (R-7.0)
- △ ADJUST EXISTING FIRE HYDRANT TO PROPOSED GRADE
- △ ADJUST EXISTING SANITARY SEWER MANHOLE
COVERS TO PROPOSED GRADE
- △ ROTATE SANITARY SEWER MANHOLE OUT OF RAMP/CURB
CONFLICT, AND ADJUST COVER TO PROPOSED GRADE
- △ ADJUST ELEC. MH RIM TO PROPOSED GRADE
- △ PROPOSED SIGNAL POLE



DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Sheet **7C**

Project Name and Location
Clarendon Circle Improvements
 UTILITY RELOCATION PLAN SHEET
 Wilson Blvd. at Washington Blvd.
 314-43513.DWG, S16.0000

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

Filename: 7B_ Utility Plan Sheet.dwg
 Path: M:\projects\201111192_Arlington Multimodal\Task
 3 - Clarendon Circle\CADD\Civil3d\Clarendon\Plan
 Plotted: May 26, 2016
 Plotted by: marnone

Scale: Hor.: 1"=25'

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

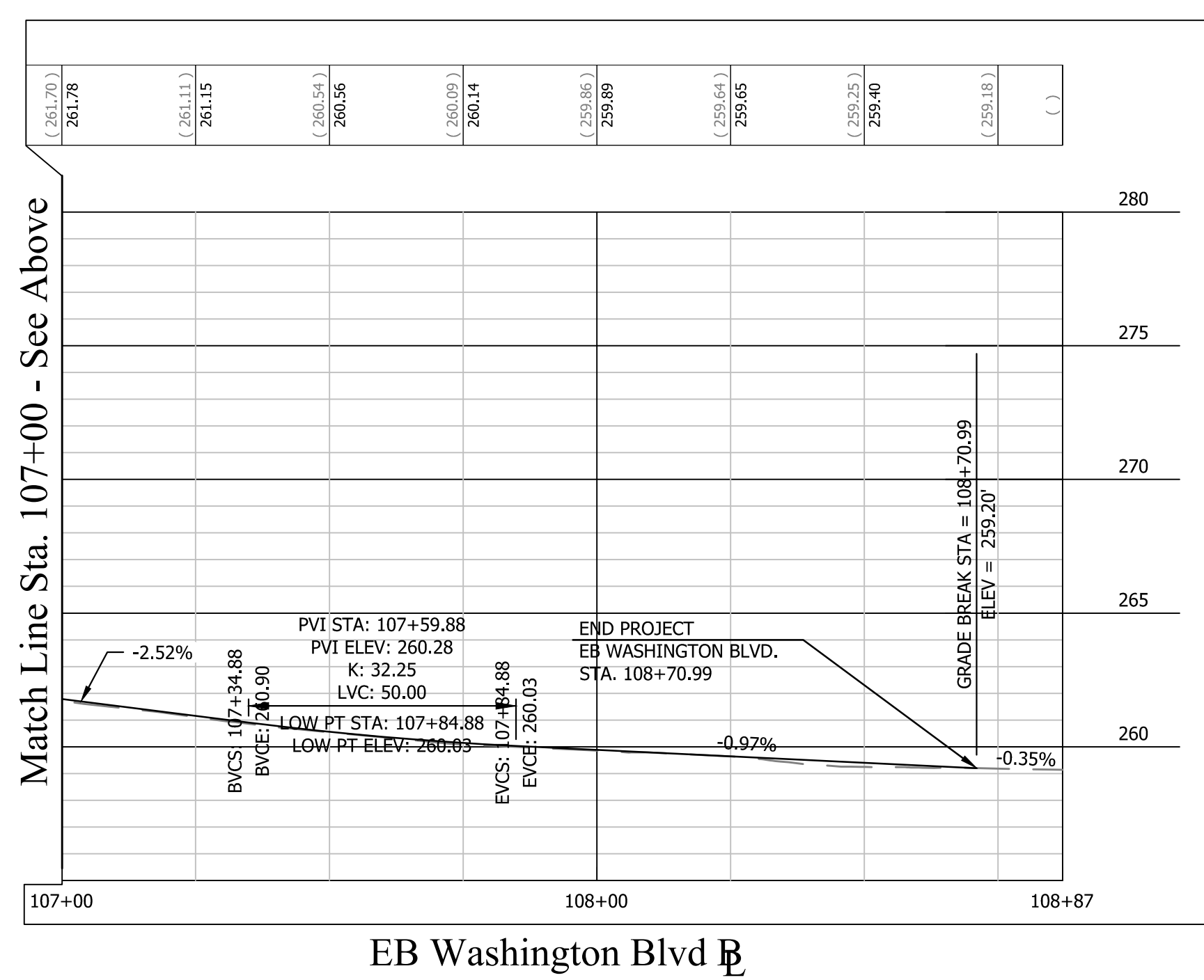
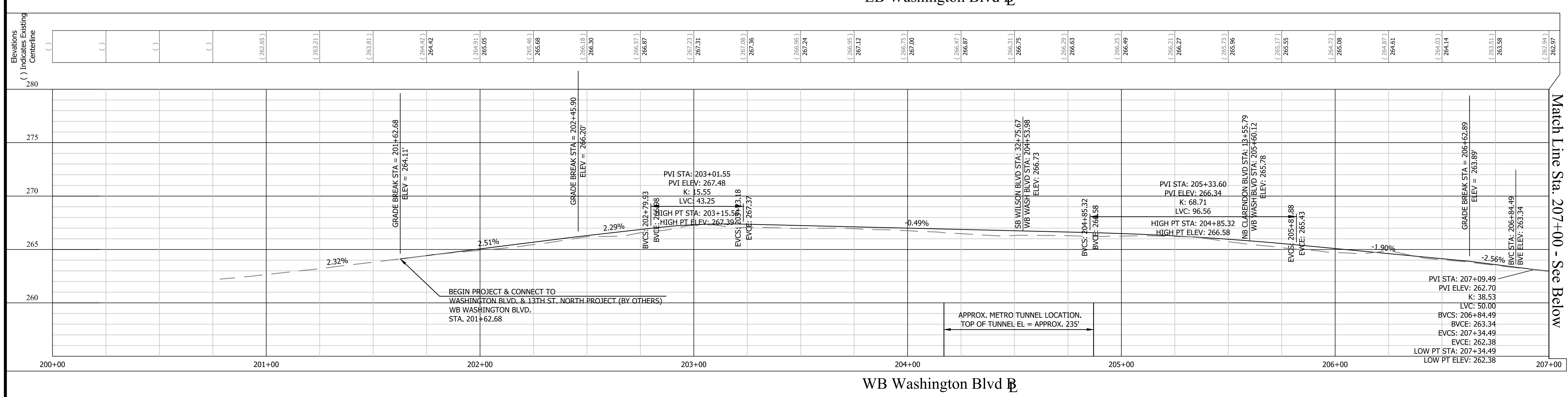
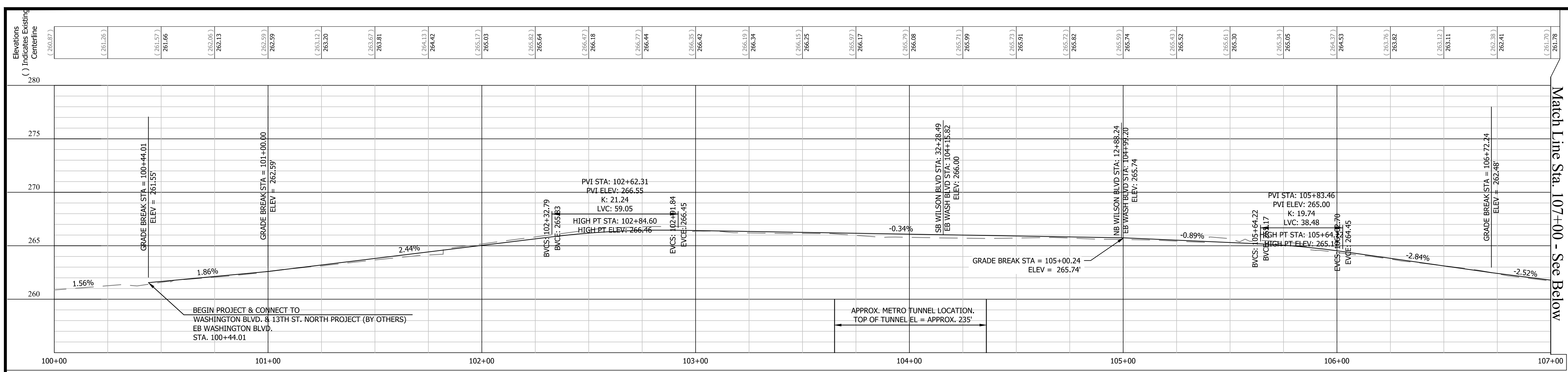
Clarendon Circle Improvements
PROFILE SHEET - WASHINGTON BLVD
Wilson Blvd. at Washington Blvd.

314-43513.DWG, S16.0000

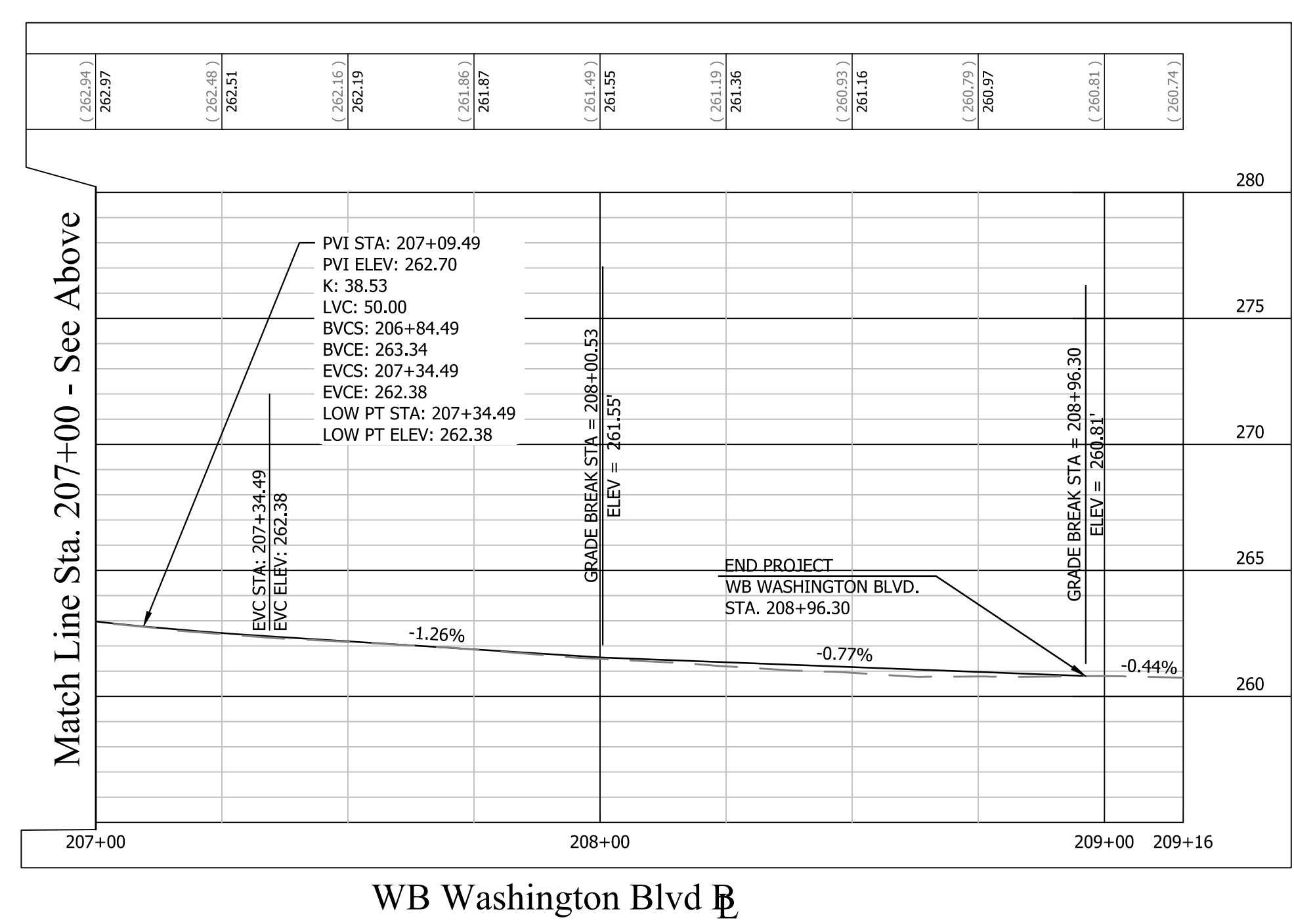
Designed: IJC
Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

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Plotted: May 27, 2016
Plotted by: marnone

Scale: Hor.: 1"=25'
Vert.: 1"=5'



REFERENCES	
Top of Curb Profiles	12-13
Storm Sewer Profiles	17-17A



Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

Clarendon Circle Improvements
PROFILE SHEET -
WILSON/CLARENDON BLVD
Wilson Blvd. at Washington Blvd.

Project Name and Location

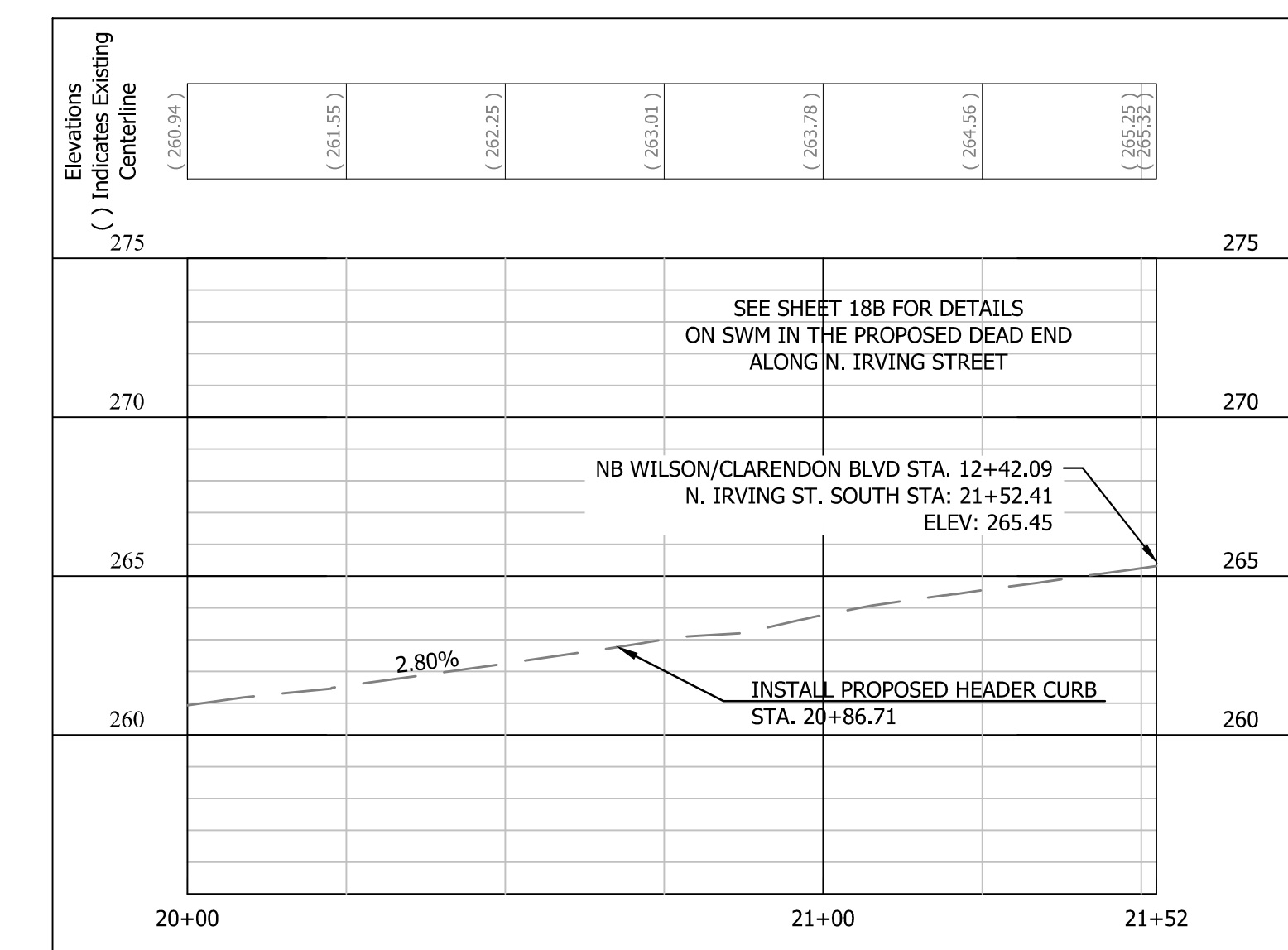
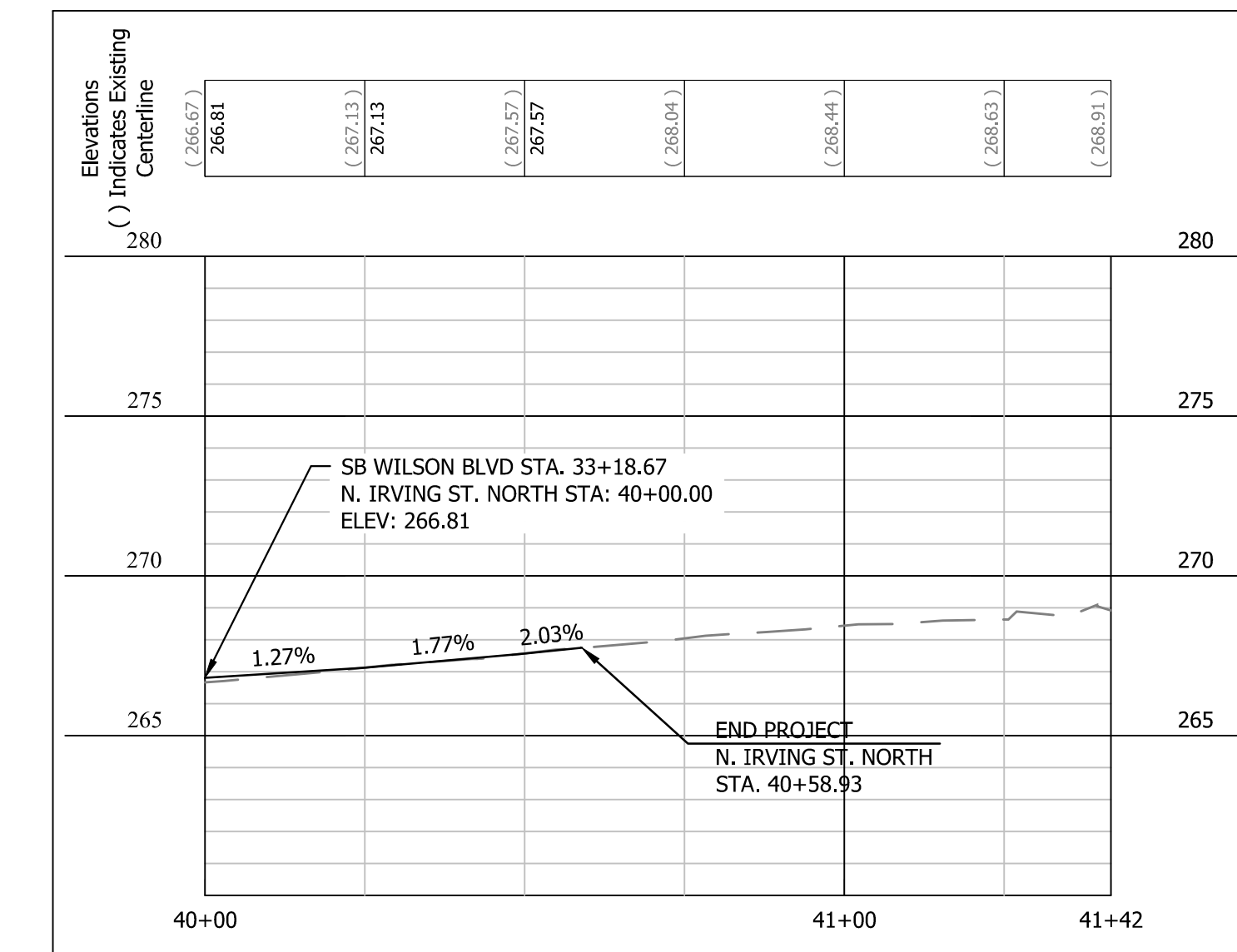
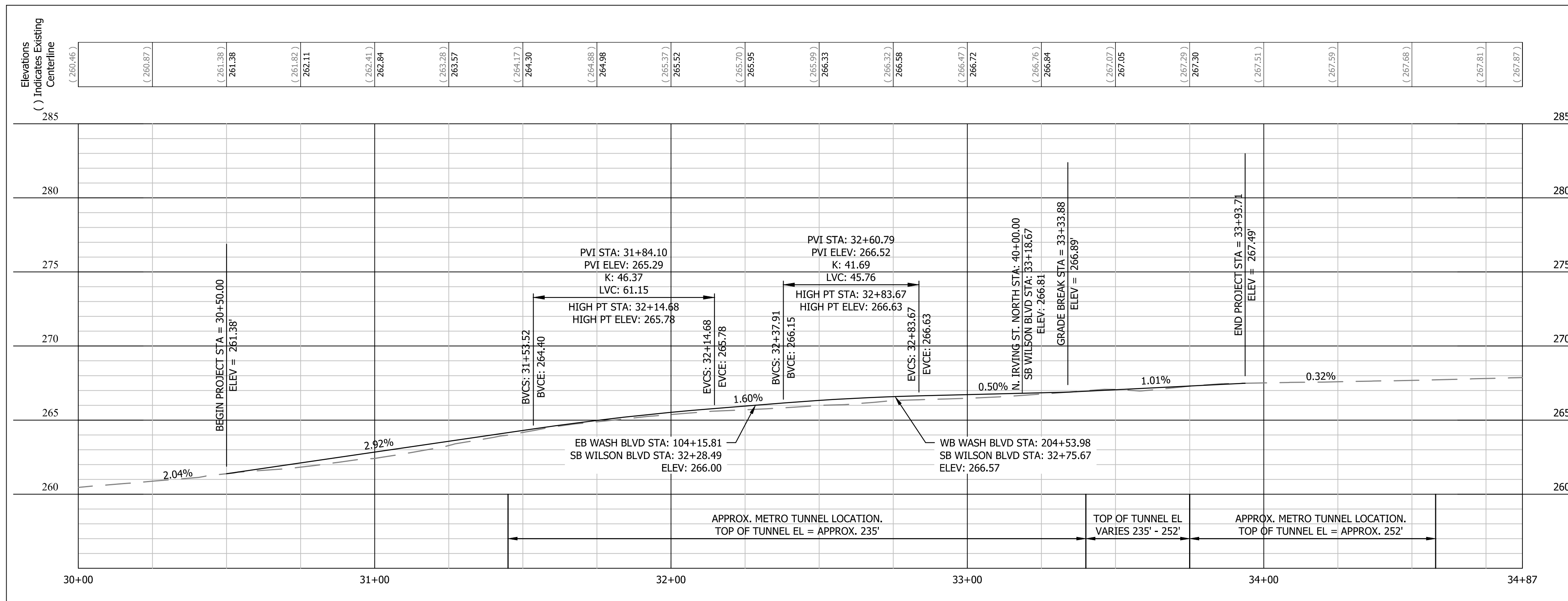
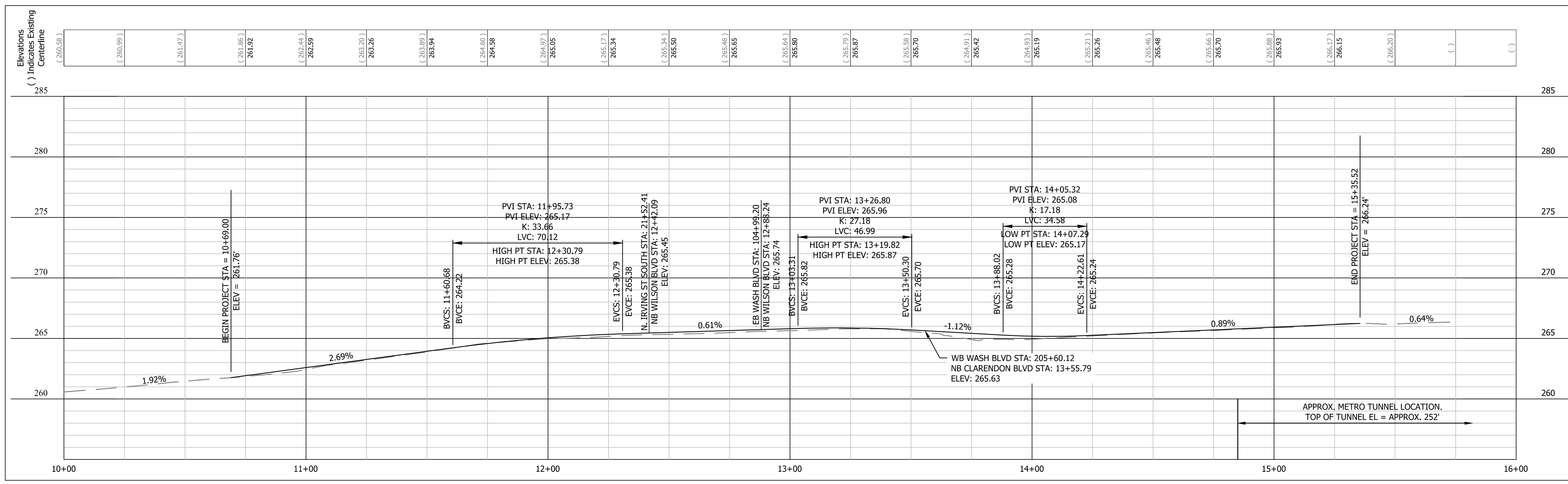
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Checked: MRM
Miss Utility Transmittal #: 5057

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Plotted: May 26, 2016
Plotted by: icathcart

Scale: Hor.: 1"=25'
Vert.: 1"=5'

Sheet

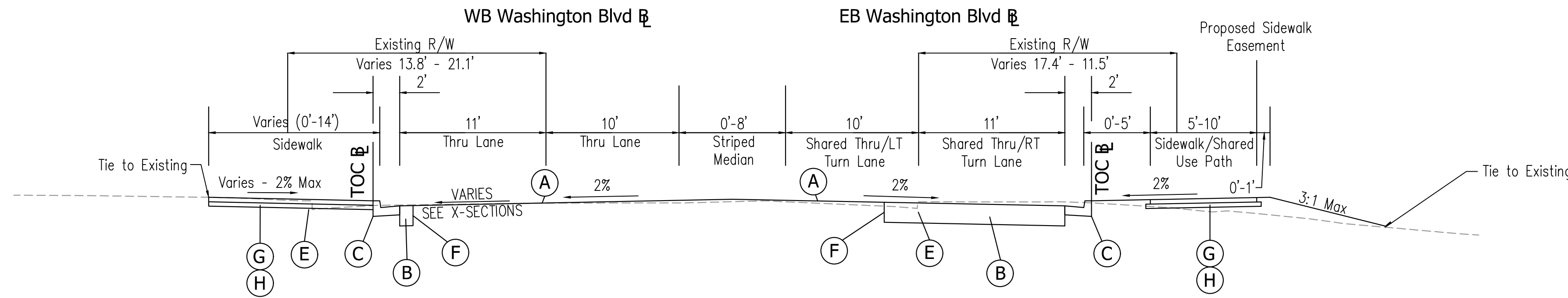
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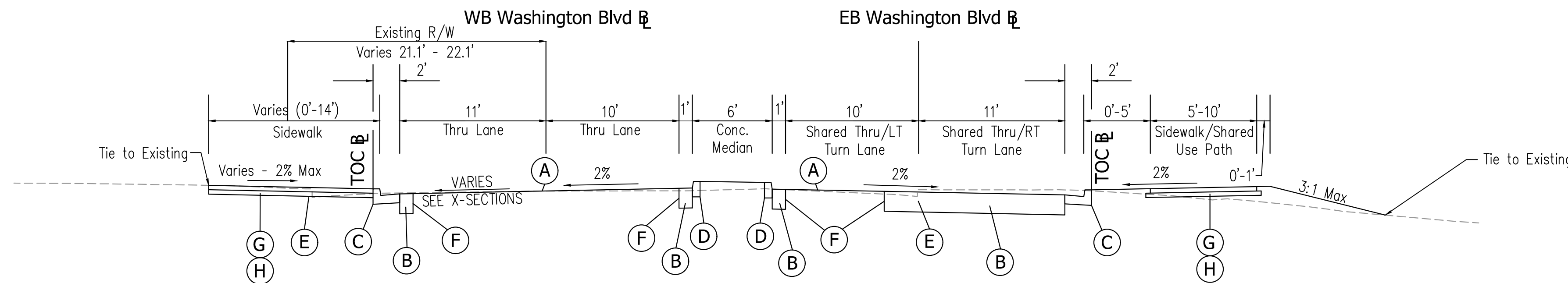
REFERENCES	
Top of Curb Profiles	12-13
Storm Sewer Profiles	17-17A

** WB Washington Blvd construction begins at Sta. 201+62.68 on the WB Washington Blvd and ends at Sta. 208+96.30

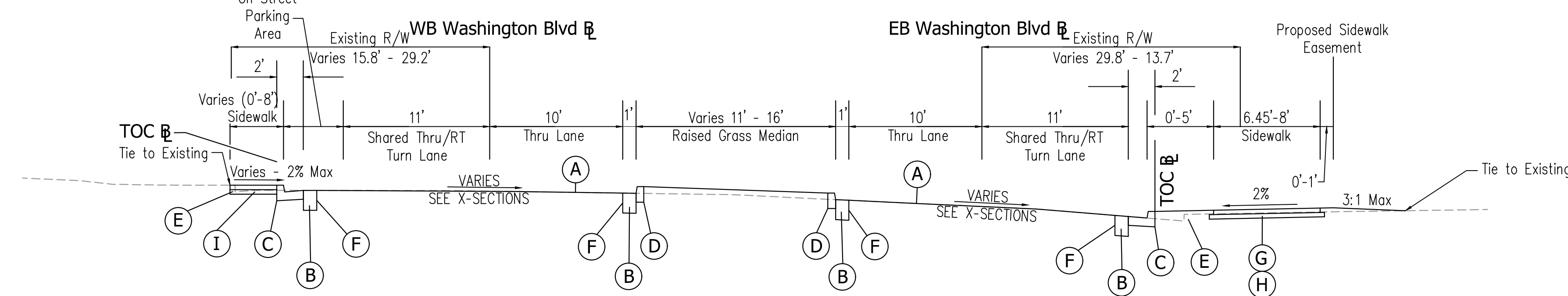
WASHINGTON BLVD.
(WEST OF THE INTERSECTION)
STA. **100+44.31 TO STA. 102+87.78 (EB WASH. B)



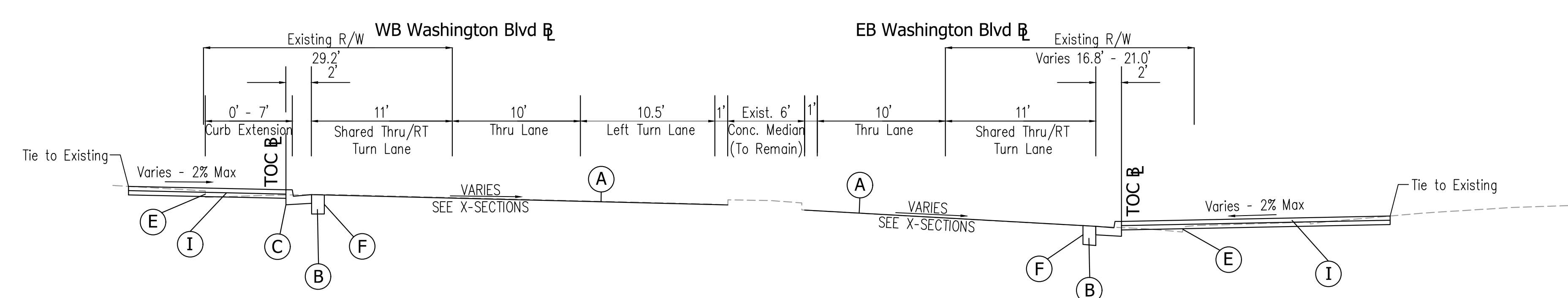
WASHINGTON BLVD.
(WEST OF THE INTERSECTION)
STA. 102+87.78 TO STA. 103+81.45 (EB WASH. B)



WASHINGTON BLVD.
(EAST OF THE INTERSECTION)
STA. 105+64.80 TO STA. 107+64.80 (EB WASH. B)



WASHINGTON BLVD.
(EAST OF THE INTERSECTION)
STA. 108+17.23 TO STA. 108+70.99 (EB WASH. B)



LEGEND

- (A) MILLING & OVERLAY - 2" ASPHALT CONCRETE TYPE SM-9.5D
- (B) VARIABLE DEPTH ASPHALT CONCRETE. SURFACE MATERIAL TYPE SM-9.5D, BASE MATERIAL TYPE BM-25.0A, & AGGREGATE BASE MATERIAL TYPE 1 NO. 21B (MINIMUM CBR-30). CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS
- (C) ARLINGTON COUNTY ST'D. C-2 CURB & GUTTER
- (D) ARLINGTON COUNTY ST'D. C-3 CURB
- (E) REMOVE EXISTING CURB & GUTTER
- (F) FULL DEPTH SAW CUT REQ'D.
- * (G) HYDRAULIC CEMENT CONCRETE SIDEWALK - 4"
- * (H) AGGREGATE BASE MATERIAL, TYPE 1, SIZE 21B - 4"
- * (I) BRICK PAVERS WITH 4" CONCRETE BASE

* SEE LANDSCAPING PLAN SHEET 40J FOR HARDSCAPE DETAILS

Seal

Approvals	Date
DESIGN TEAM SUPERVISOR	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	
PROJECT MANAGER	
Revisions	Date

Project Name and Location
Clarendon Circle Improvements
TYPICAL SECTIONS
Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 10_Typical Sections.dwg
Path: M:\projects\201111192_Arlington Multimodal\Task 3 - Clarendon Circle\2401\CD\10\30\Clarendon\Plan
Plotted: May 26, 2016
Plotted by: marnone

Scale: N.T.S.



Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

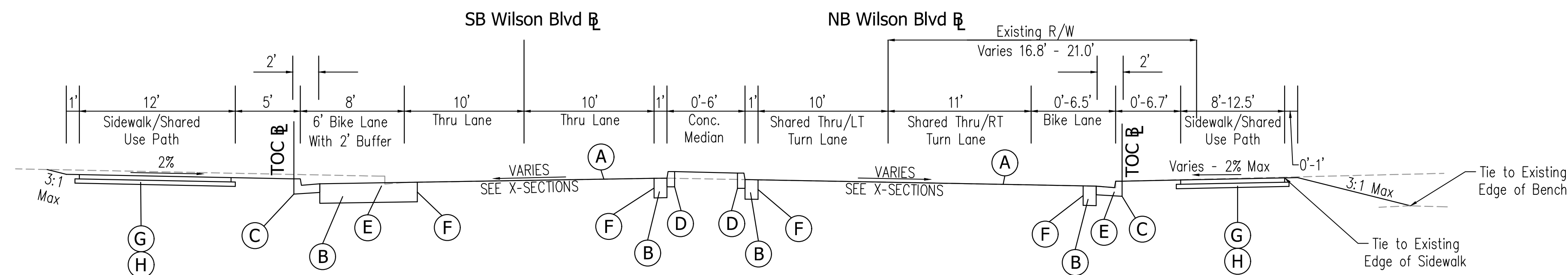
WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

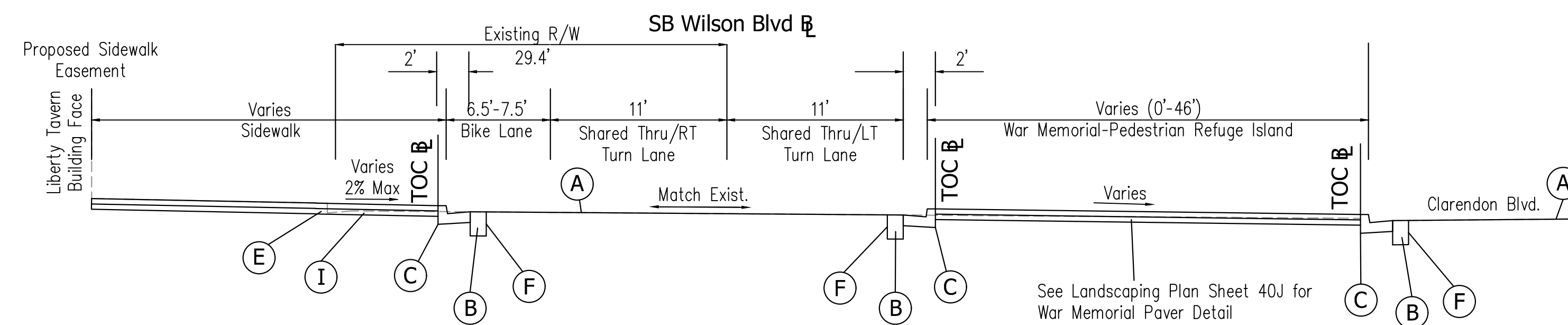
PROJECT MANAGER

Revisions Date

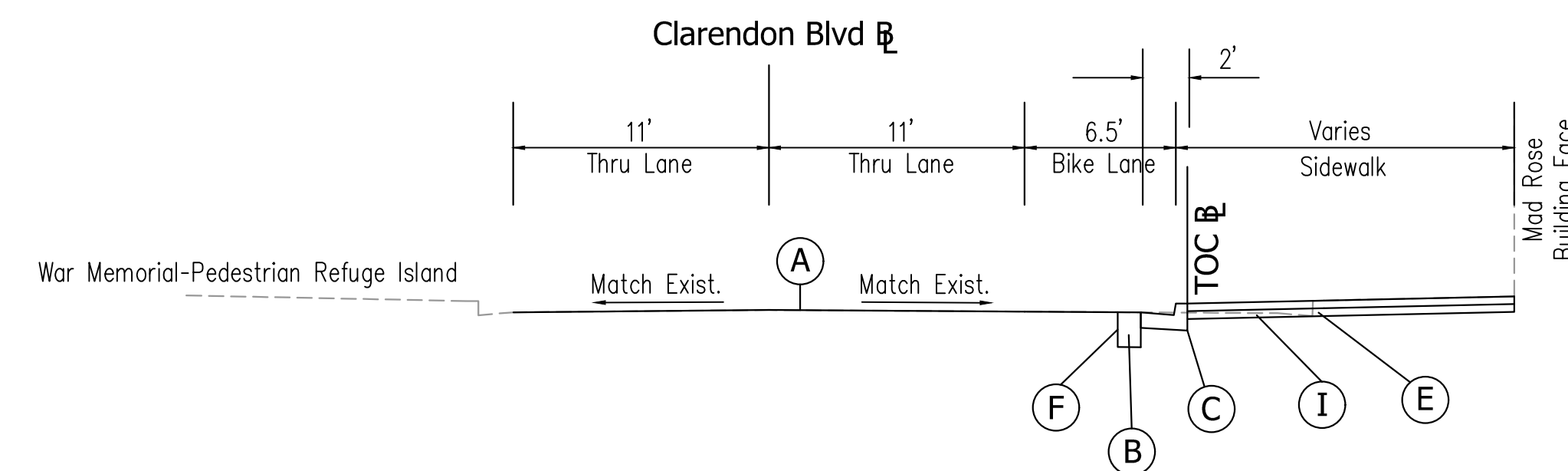
WILSON BLVD.
(SOUTH OF THE INTERSECTION)
STA. 10+68.97 TO STA. 12+79.28 (NB WILSON BLVD)



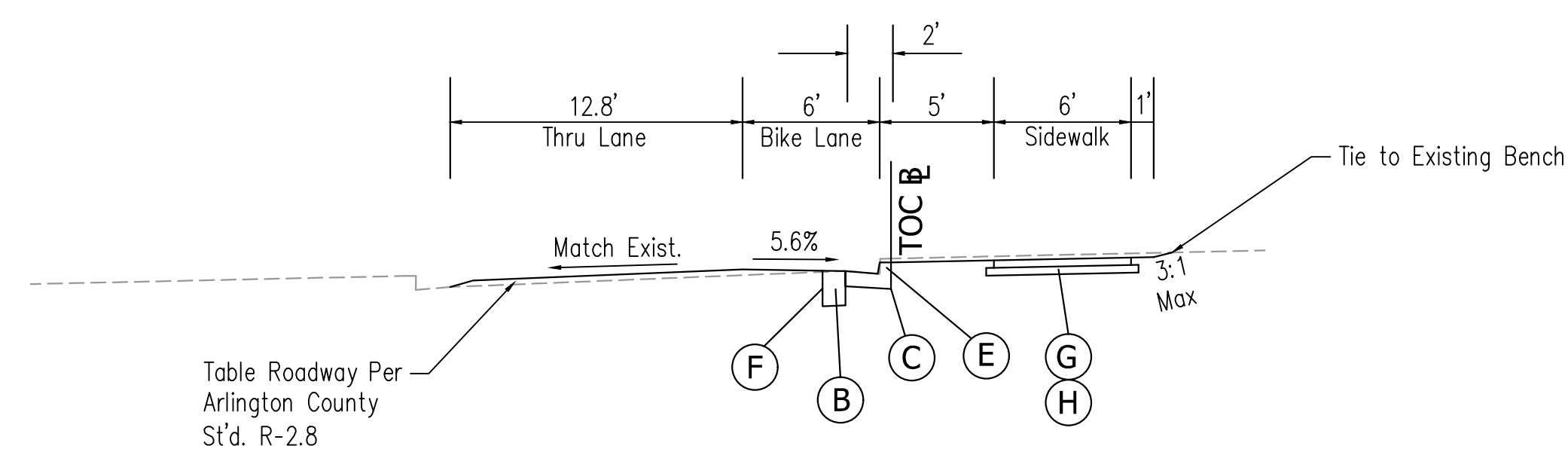
WILSON BLVD.
(NORTH OF THE INTERSECTION)
STA. 32+79.20 TO STA. 33+81.51



CLARENDON BLVD.
(NORTH OF THE INTERSECTION)
STA. 13+62.97 TO STA. 15+32.16



FAIRFAX DR.



LEGEND

- (A) MILLING & OVERLAY - 2" ASPHALT CONCRETE TYPE SM-9.5D
 - (B) VARIABLE DEPTH ASPHALT CONCRETE. SURFACE MATERIAL TYPE SM-9.5D, BASE MATERIAL TYPE BM-25.0A, & AGGREGATE BASE MATERIAL TYPE 1 NO. 21B (MINIMUM CBR-30). CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS
 - (C) ARLINGTON COUNTY ST'D. C-2 CURB & GUTTER
 - (D) ARLINGTON COUNTY ST'D. C-3 CURB
 - (E) REMOVE EXISTING CURB & GUTTER
 - (F) FULL DEPTH SAW CUT REQ'D.
 - * (G) HYDRAULIC CEMENT CONCRETE SIDEWALK - 4"
 - * (H) AGGREGATE BASE MATERIAL, TYPE 1, SIZE 21B - 4"
 - * (I) BRICK PAVERS WITH 4" CONCRETE BASE
- * SEE LANDSCAPING PLAN SHEET 40J FOR HARDSCAPE DETAILS

Project Name and Location

Clarendon Circle Improvements

TYPICAL SECTIONS

Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

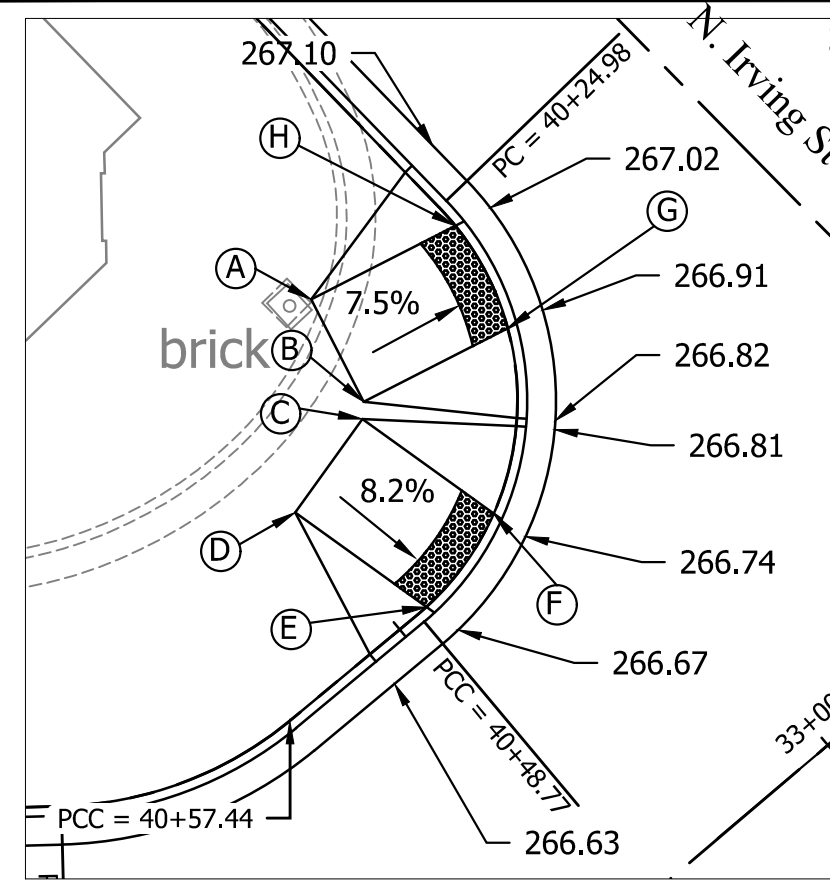
Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

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Plotted: May 26, 2016
Plotted by: marnone

Scale: N.T.S.

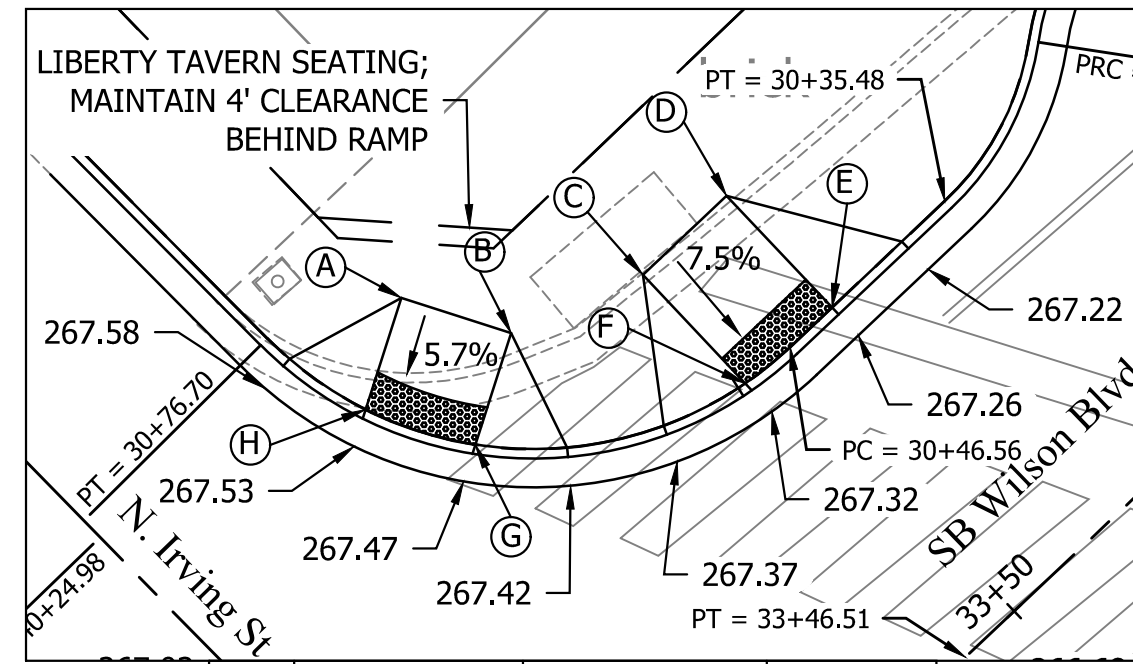
Sheet

10A



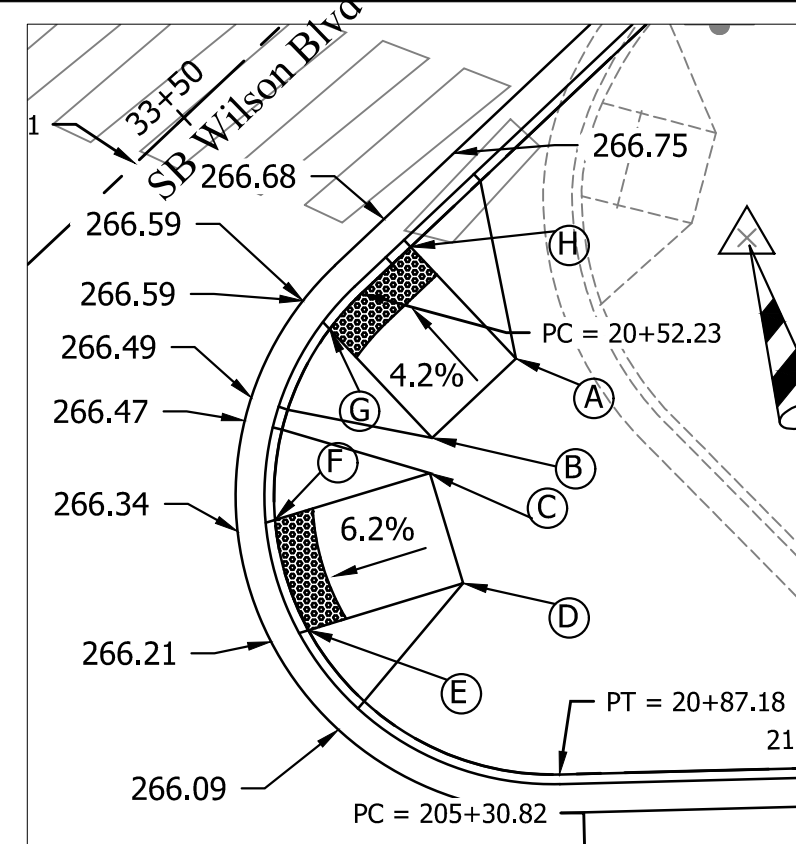
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B	40+32.27	8.50' RT	267.36
C	40+42.16	8.50' RT	267.33
D	40+48.19	8.50' RT	267.25
E	40+48.19		266.55
F	40+42.16		266.62
G	40+32.27		266.79
H	40+26.27		266.90

CURB RAMP CG 12A - N. Irving St./SB Wilson Blvd
Scale: 1" = 10'



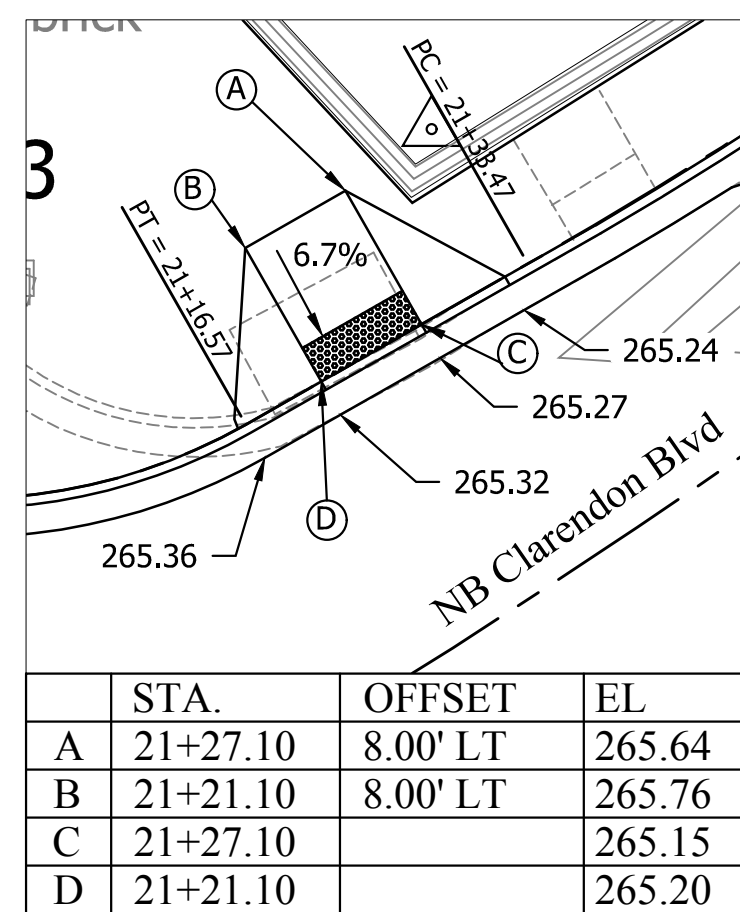
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A	30+70.36	6.00' RT	267.74
B	30+64.33	6.00' RT	267.70
C	30+49.50	6.00' RT	267.63
D	30+43.56	6.00' RT	267.59
E	30+43.56		267.14
F	30+49.50		267.20
G	30+64.33		267.35
H	30+70.36		267.41

CURB RAMP CG 12A - SB Wilson Blvd/N. Irving St.
Scale: 1" = 10'



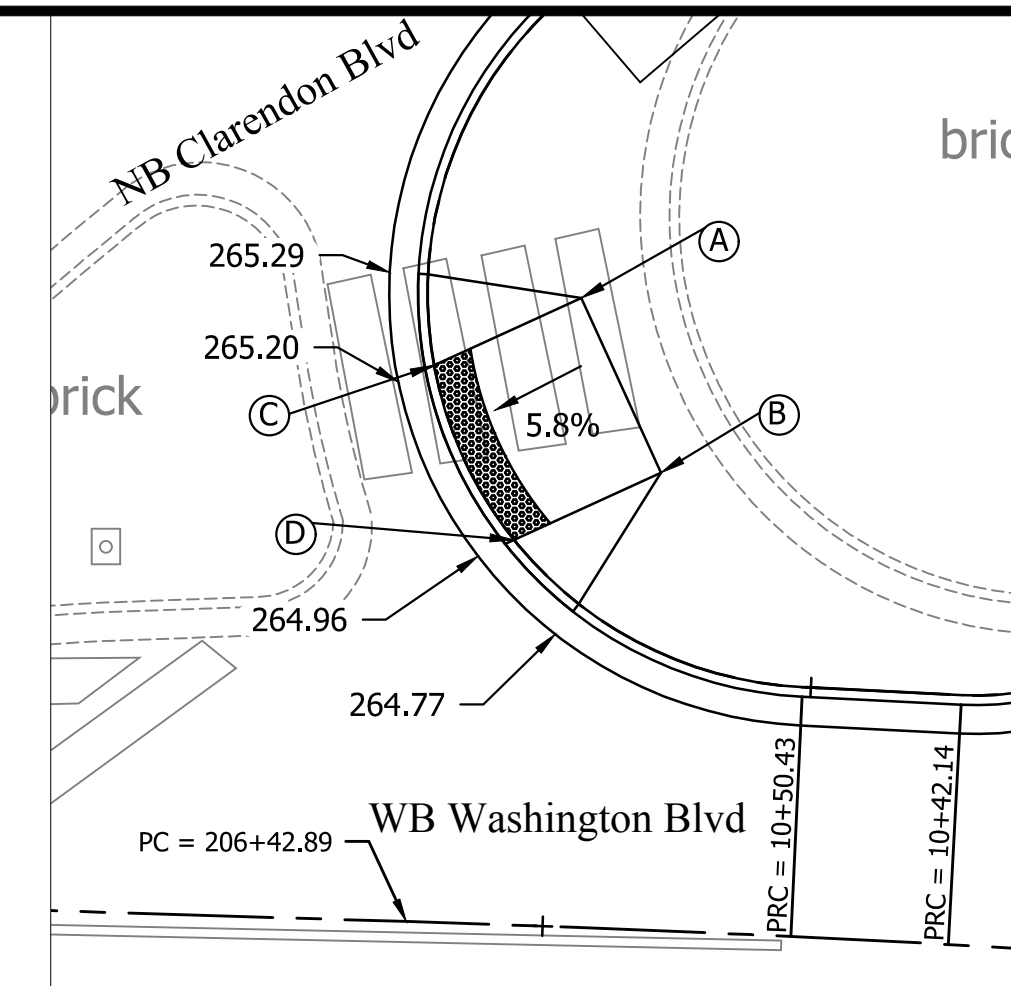
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B	20+54.71	8.00' LT	266.81
C	20+65.28	8.00' LT	266.76
D	20+71.32	8.00' LT	266.53
E	20+71.32		266.09
F	20+65.28		266.22
G	20+54.71		266.47
H	20+48.69		266.56

CURB RAMP CG 12A -
SB Wilson Blvd/NB Clarendon Blvd
Scale: 1" = 10'



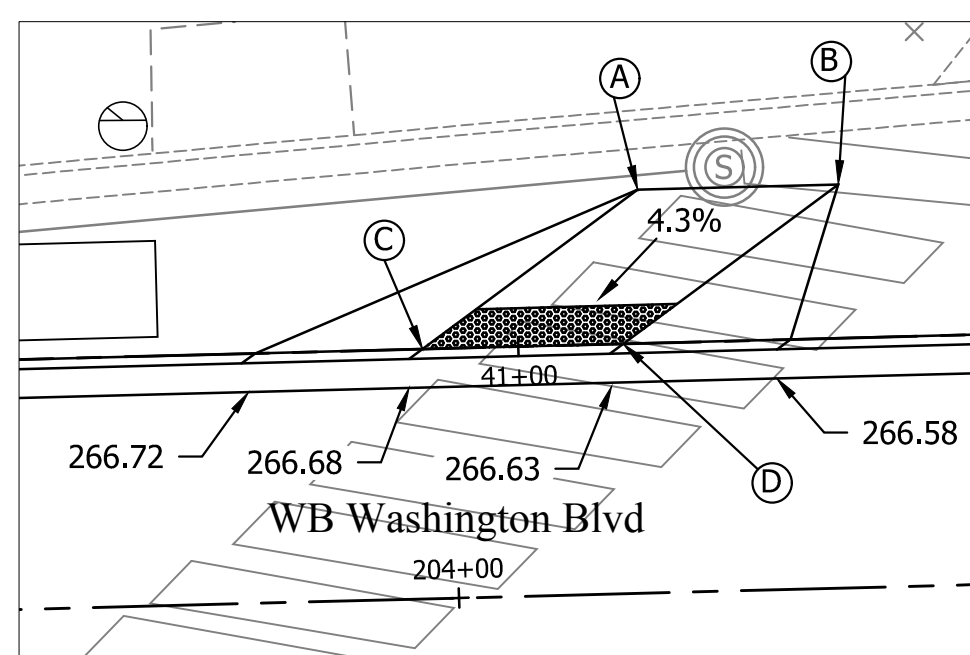
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D	21+21.10		265.20

CURB RAMP CG 12A -
SB Wilson Blvd/NB Clarendon Blvd
Scale: 1" = 10'



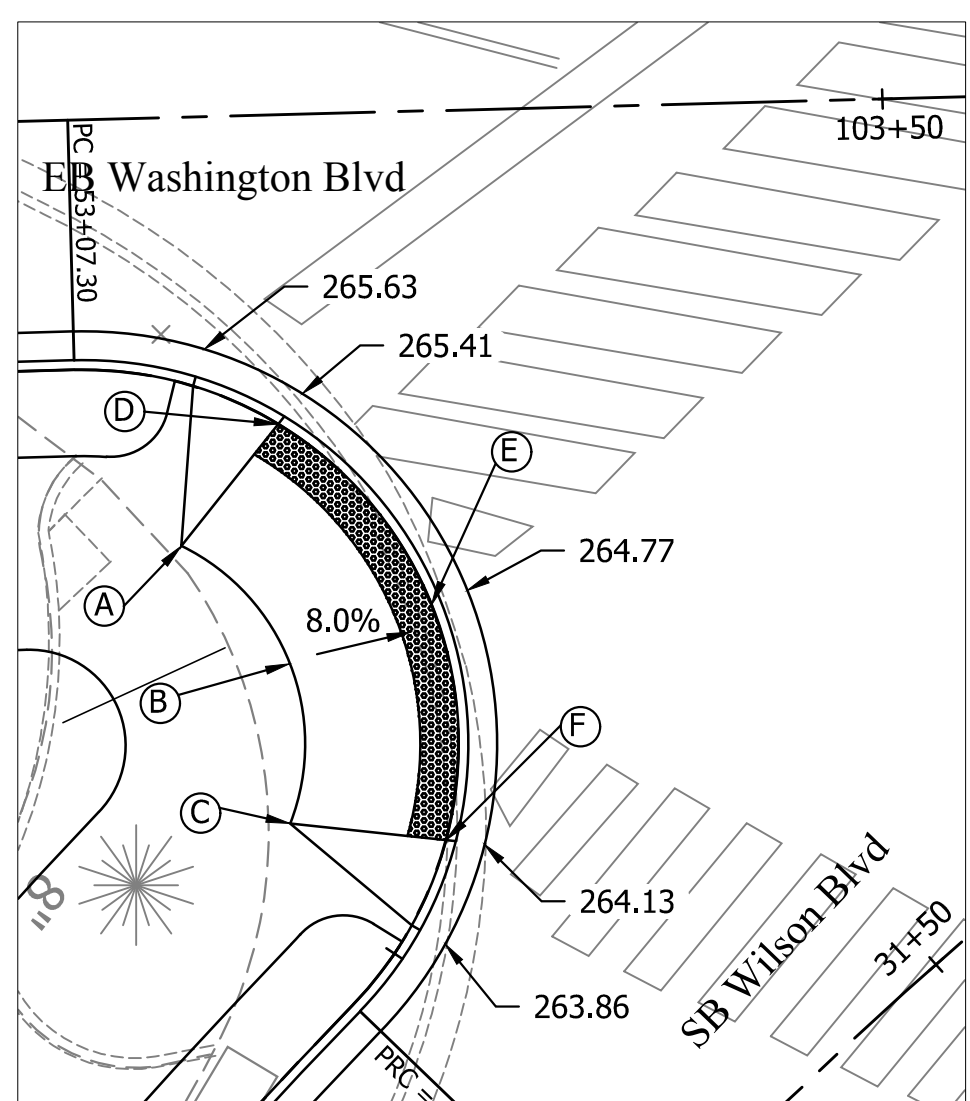
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A	10+77.93	8.00' RT	265.57
B	10+67.82	8.00' RT	265.27
C	10+77.93		265.08
D	10+67.82		264.84

CURB RAMP CG 12A -
WB Washington Blvd/NB Clarendon Blvd
Scale: 1" = 10'



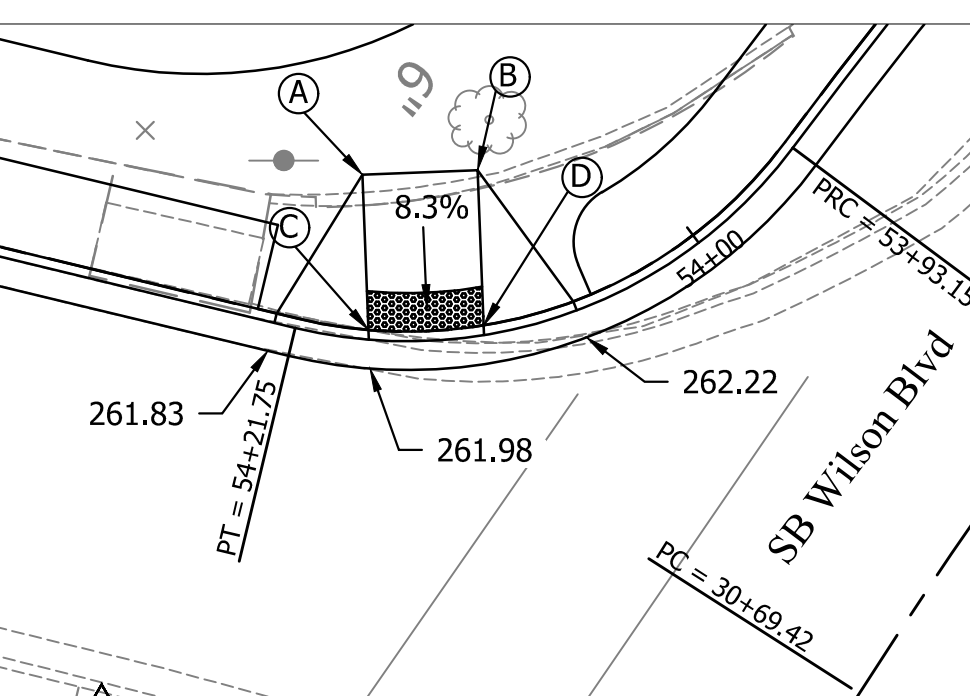
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A	40+93.58	8.00' RT	267.16
B	40+83.13	8.00' RT	267.11
C	41+04.99		266.56
D	40+94.54		266.51

CURB RAMP CG 12A - WB Washington Blvd
Scale: 1" = 10'



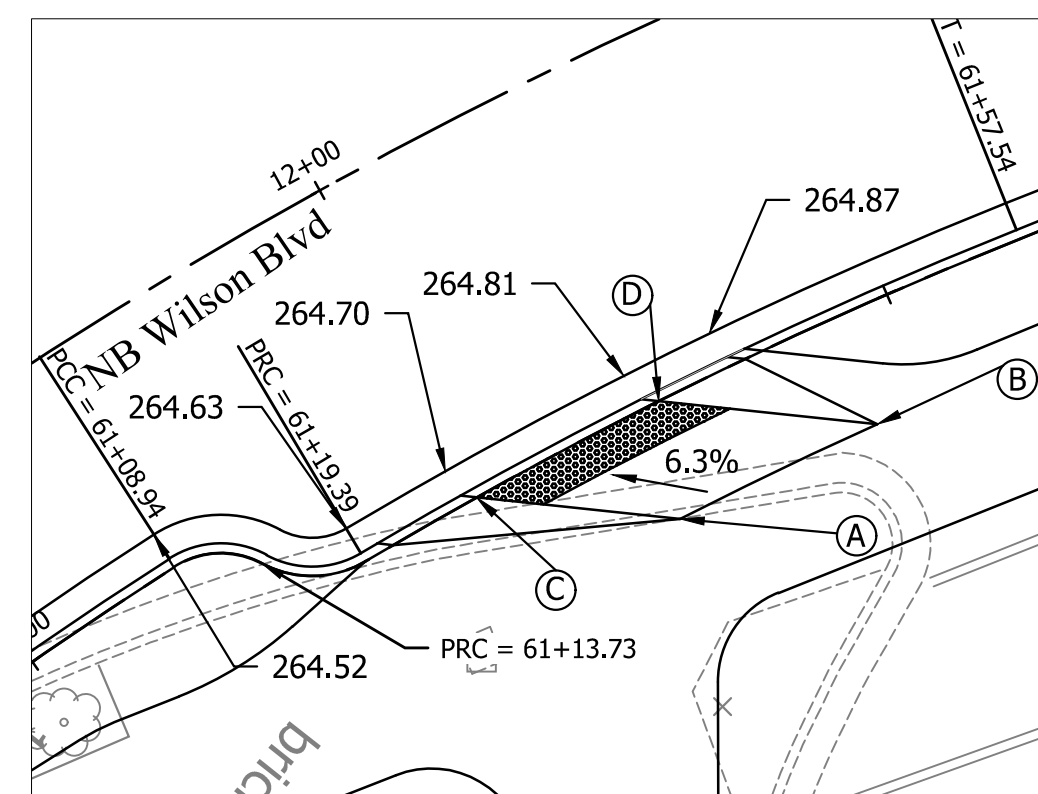
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B	53+30.99	8.00' RT	265.30
C	53+43.48	8.00' RT	264.60
D	53+18.44		265.29
E	53+30.99		264.65
F	53+43.48		264.01

CURB RAMP CG 12A -
EB Washington Blvd/SB Wilson Blvd
Scale: 1" = 10'



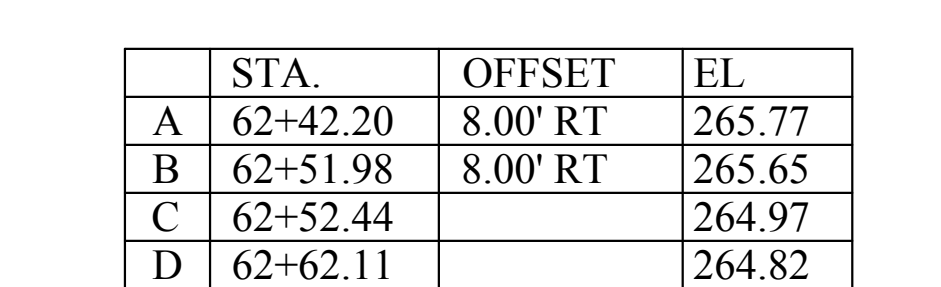
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D	54+11.98		262.09

CURB RAMP CG 12A - SB Wilson Blvd/Fairfax Dr.
Scale: 1" = 10'



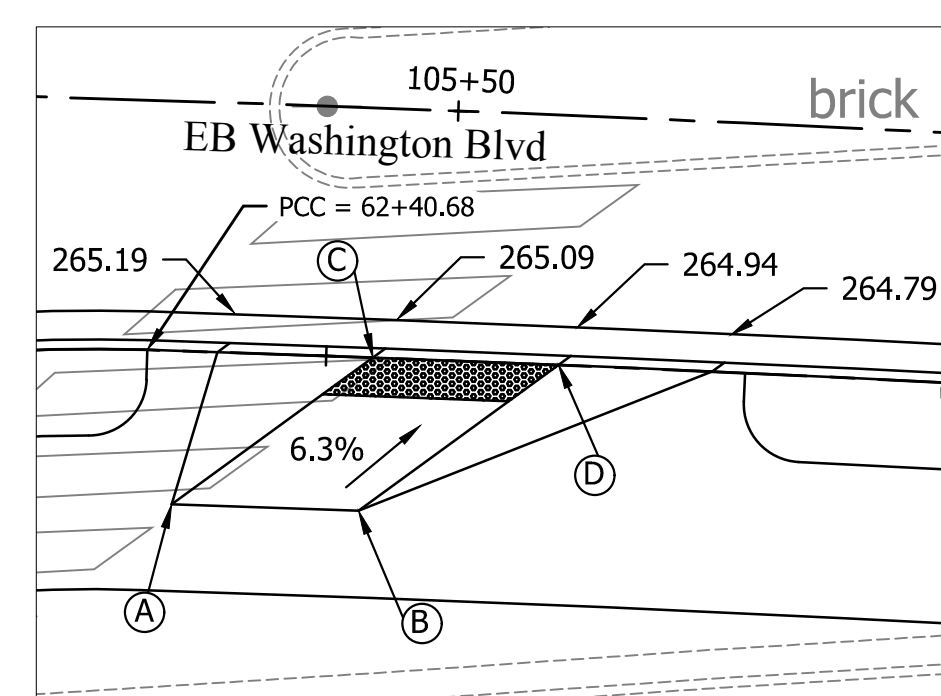
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A	61+35.12	6.00' RT	265.30
B	61+46.76	6.00' RT	265.43
C	61+26.09		264.59
D	61+36.84		264.70

CURB RAMP CG 12A - NB Wilson Blvd
Scale: 1" = 10'



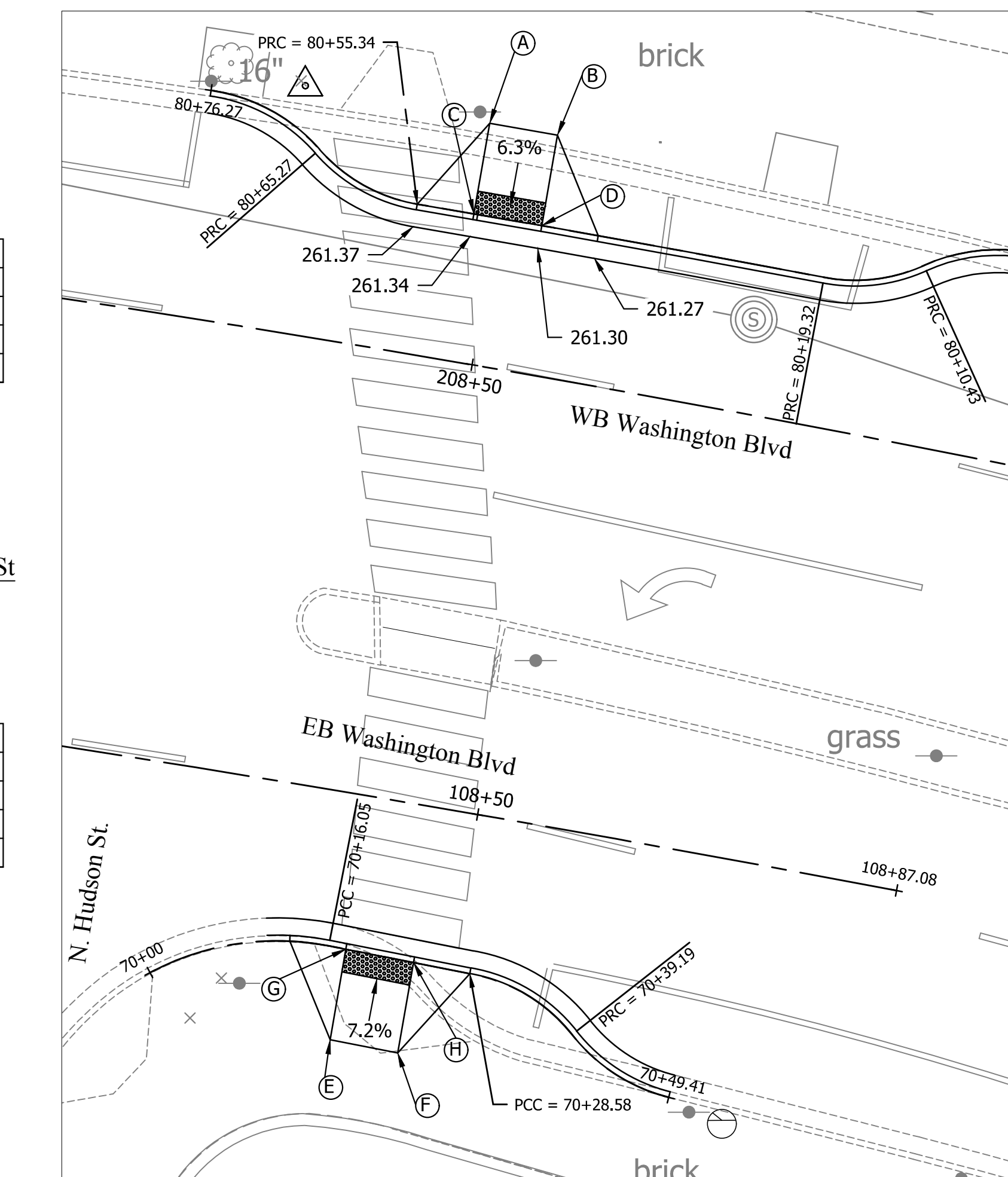
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A	62+42.20	8.00' RT	265.77
B	62+51.98	8.00' RT	265.65
C	62+52.44		264.97
D	62+62.11		264.82

CURB RAMP CG 12A - EB Washington Blvd
Scale: 1" = 10'



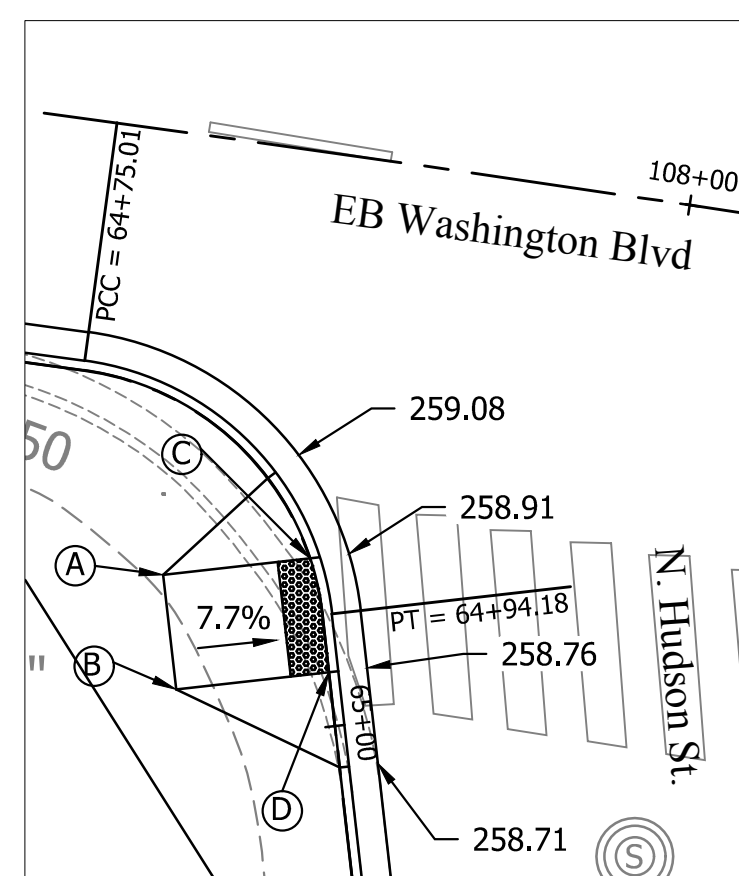
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B	62+51.98	8.00' RT	265.65
C	62+52.44		264.97
D	62+62.11		264.82

CURB RAMP CG 12A - EB Washington Blvd
Scale: 1" = 10'



STA.	OFFSET	EL	
A	80+50.33	8.00' RT	261.70
B	80+44.33	8.00' RT	261.69
C	80+50.33		261.22
D	80+44.33		261.18

CURB RAMPS CG 12A -
Washington Blvd Midblock/N. Hudson St
Scale: 1" = 10'



STA.	OFFSET	EL	
A	64+91.16	8.00' RT	259.40
B	64+97.18	8.00' RT	259.25
C	64+91.16		258.79
D	64+97.18		258.64

CURB RAMP CG 12A -
EB Washington Blvd/N Hudson St
Scale: 1" = 10'



NOTES

- Elevations along curb lines always indicate top of proposed curb elevations along the TOC baselines.
- All detail panes share the same orientation/north arrow.

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Designed: IJC

Drawn: IJC

Checked: MRM

Miss Utility Transmittal #: 5057

Filename: 11_Curb Ramp Details.dwg

Path: M:\projects\201111162_Arlington Multimodal\Task

3 - Clarendon Circle\CD\Clarendon\Plan

Plotted: May 26, 2016

Plotted by: icathcart

Scale: Hor.: 1"=10'

Sheet

Project Name and Location
Clarendon Circle Improvements
CURB RAMP DETAILS
Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000



Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Designed: IJC

Drawn: IJC

Checked: MRM

Miss Utility Transmittal #: 5057

Filename: 11_Curb Ramp Details.dwg

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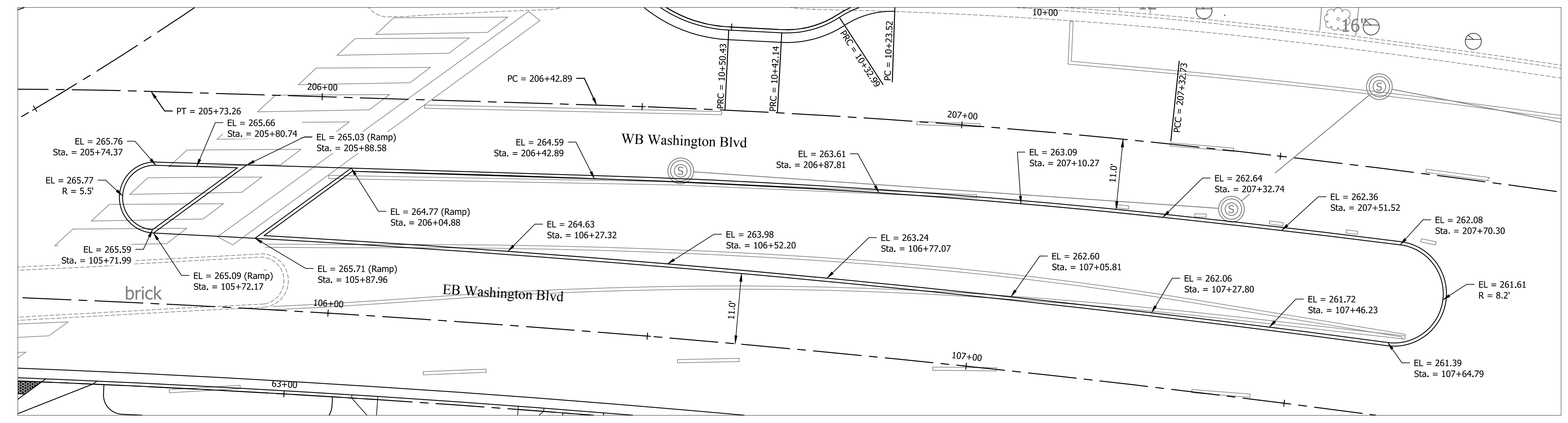
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Plotted: May 26, 2016

Plotted by: icathcart

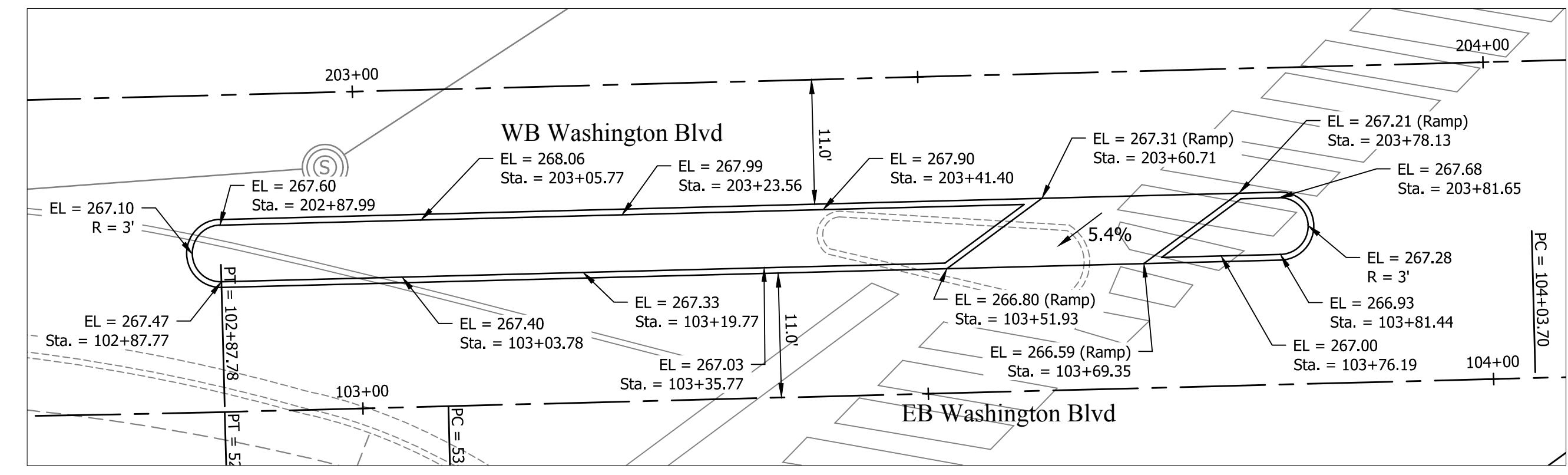
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Sheet

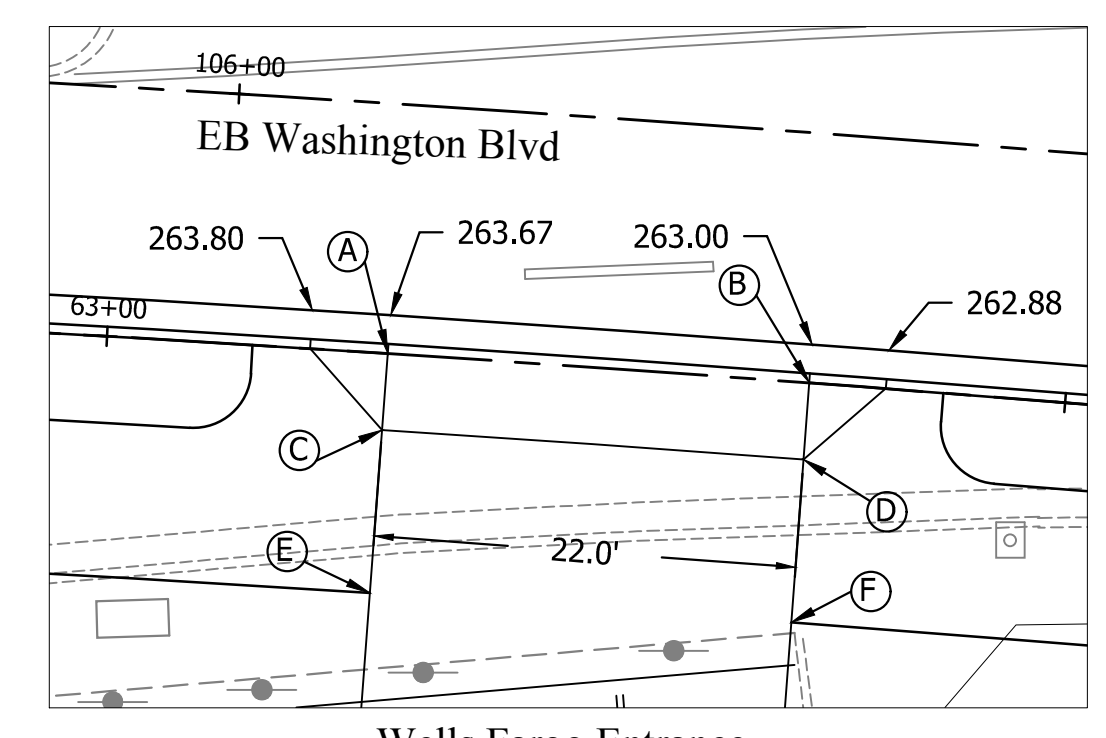


Washington Blvd Median - East of Intersection
Scale: 1" = 10'

- NOTES**
- Elevations along curb lines indicate top of proposed curb elevations, unless noted otherwise.
 - All detail panes share the same orientation/north arrow.
 - Radii shown on this sheet are at the face of curb.

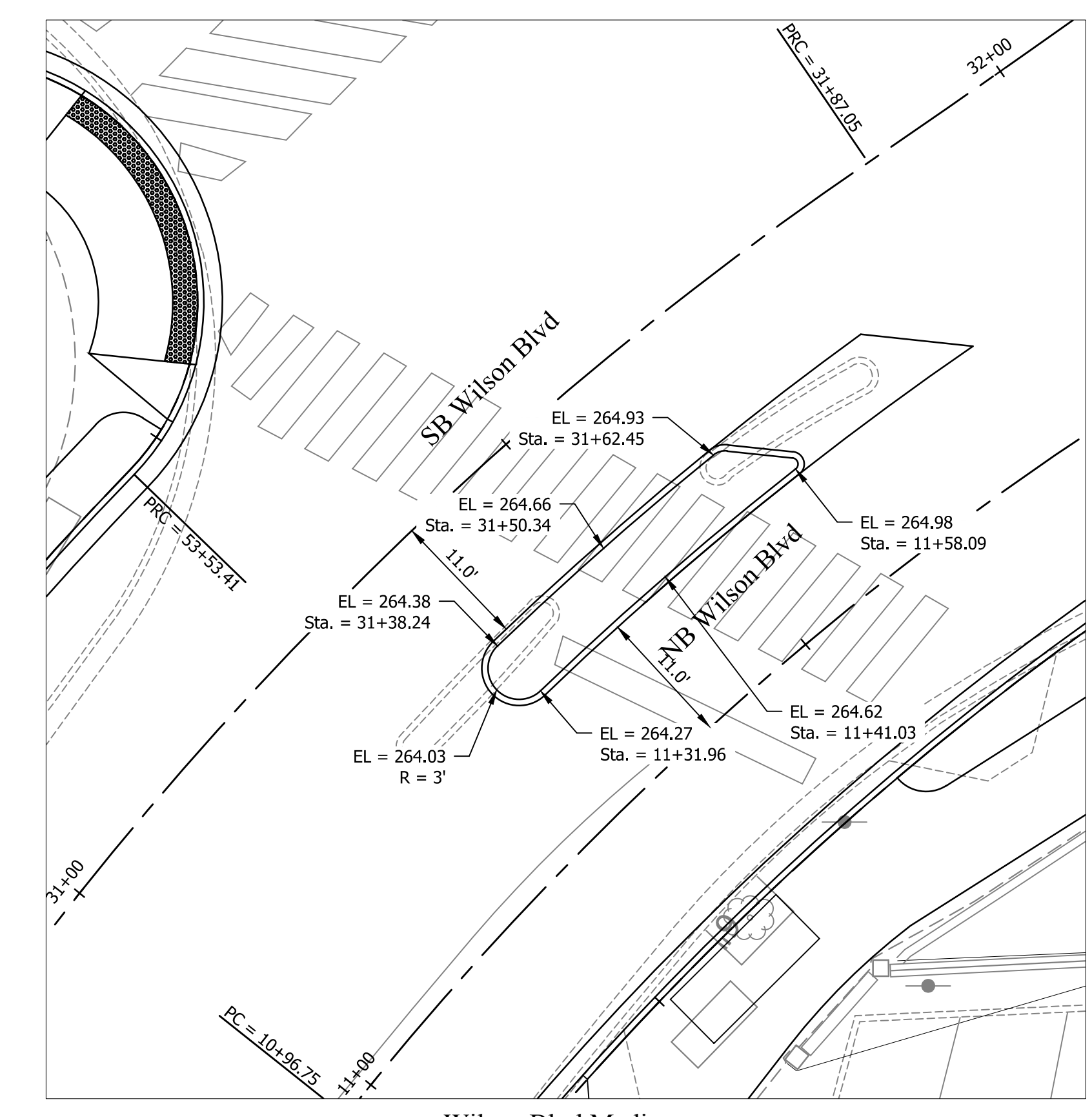


Washington Blvd Median - West of Intersection
Scale: 1" = 10'

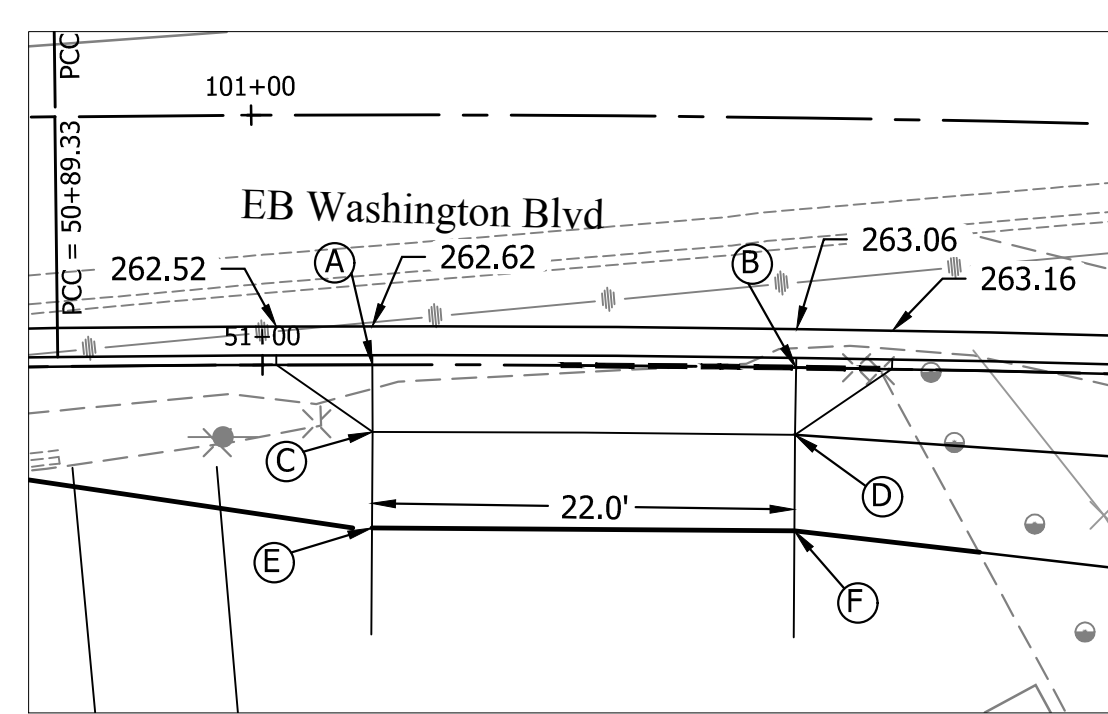


Wells Fargo Entrance - EB Washington Blvd
Scale: 1" = 10'

STA.	OFFSET	EL	
A	63+14.64	263.63	
B	63+36.64	262.96	
C	63+14.64	4.00' RT	264.14
D	63+36.64	4.00' RT	263.48
E	63+14.64	12.50' RT	264.31
F	63+36.64	12.50' RT	263.65

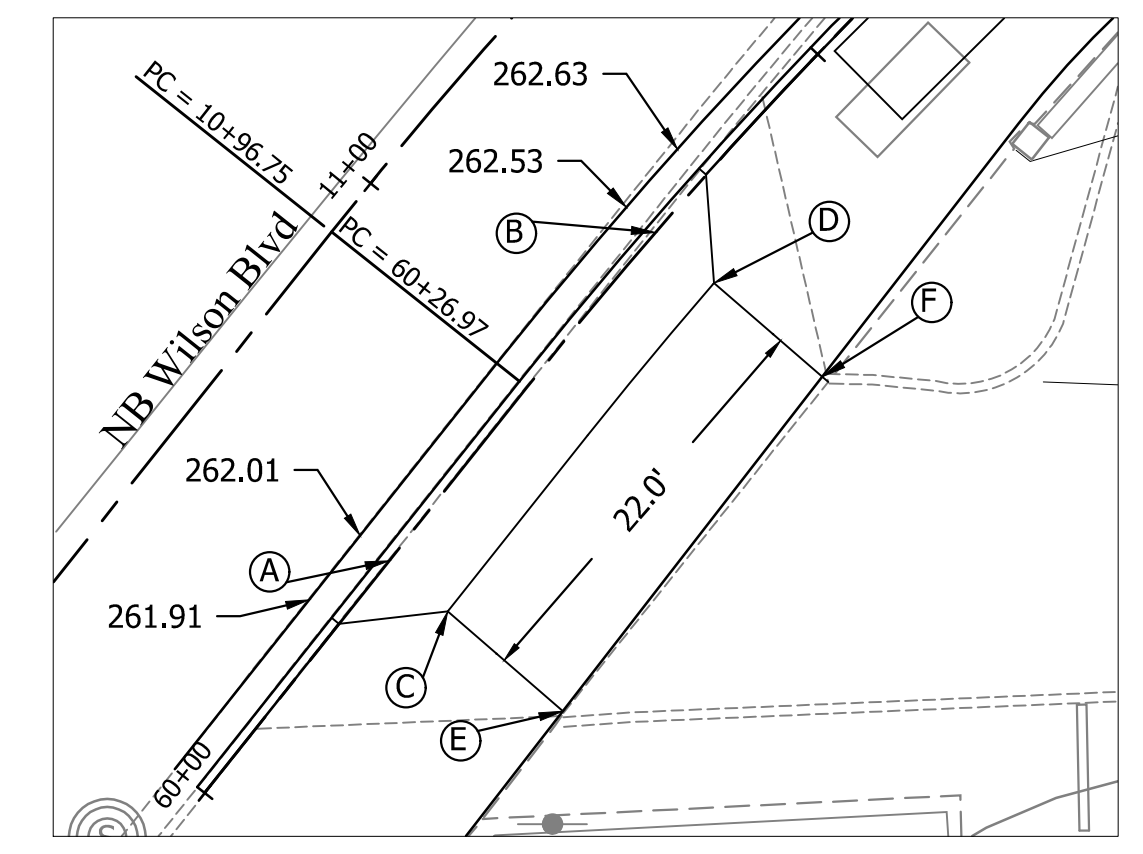


Wilson Blvd Median
Scale: 1" = 10'



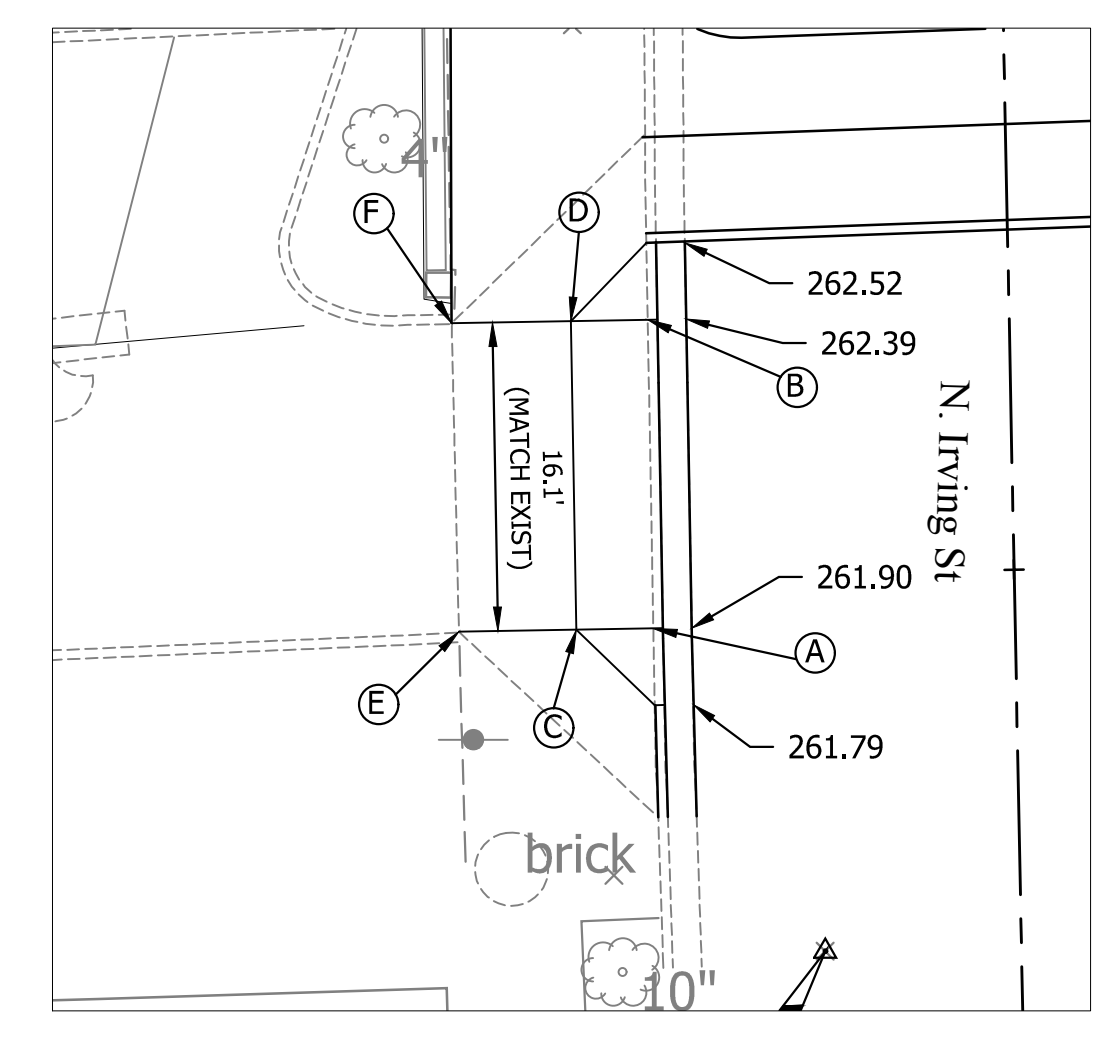
St. Charles Church Parking Lot Entrance - EB Washington Blvd
Scale: 1" = 10'

STA.	OFFSET	EL	
A	51+05.72	262.58	
B	51+27.72	263.02	
C	51+05.72	3.50' RT	263.07
D	51+27.72	3.50' RT	263.51
E	51+05.72	8.50' RT	263.17
F	51+27.72	8.50' RT	263.61



Silver Diner Entrance - NB Wilson Blvd
Scale: 1" = 10'

STA.	OFFSET	EL	
A	60+15.27	261.97	
B	60+37.45	262.49	
C	60+15.27	4.00' RT	262.47
D	60+37.45	4.00' RT	262.99
E	60+15.27	12.00' RT	262.62
F	60+37.45	12.00' RT	263.14



Silver Diner Entrance - N Irving St (South)
Scale: 1" = 10'

STA.	OFFSET	EL	
A	20+47.28	18.84' LT	261.86
B	20+63.38	18.81' LT	262.35
C	20+47.28	22.84' LT	262.36
D	20+63.38	22.81' LT	262.85
E	20+47.28	28.84' LT	262.48
F	20+63.38	28.81' LT	262.97

314-43513.D09S-S16.0000

Project Name and Location

Clarendon Circle Improvements

MEDIAN DETAILS

Wilson Blvd. at Washington Blvd.



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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

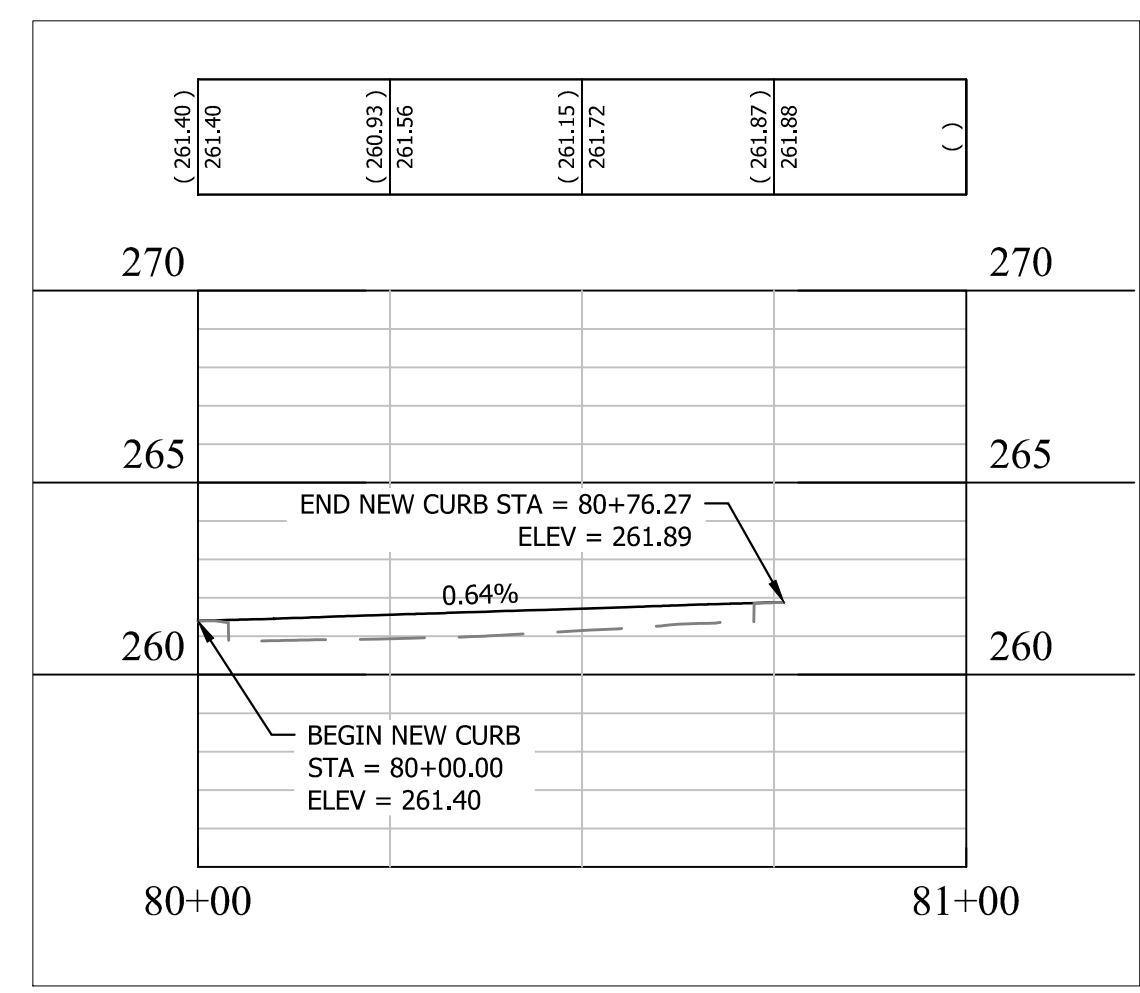
CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

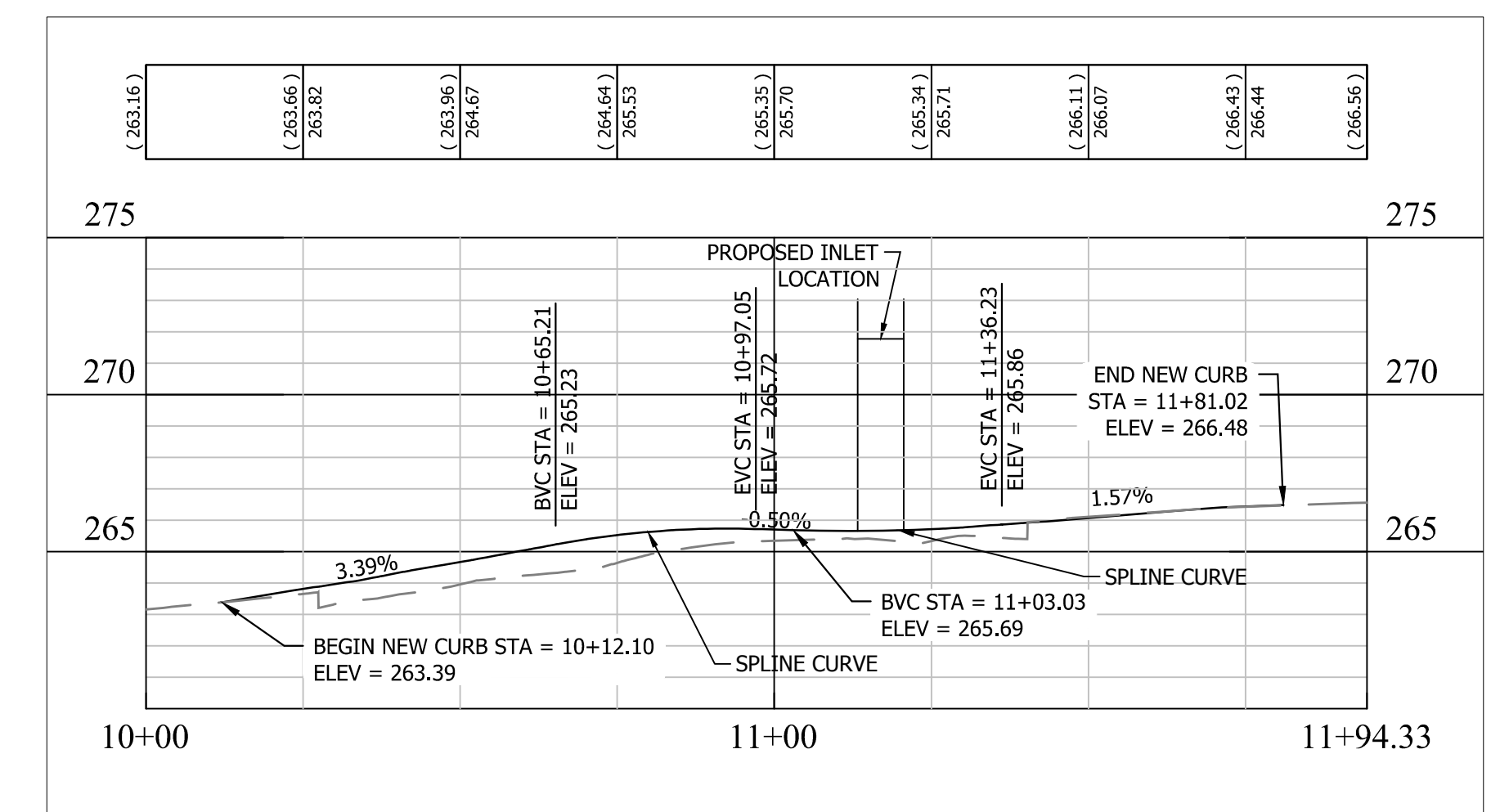
TRANSPORTATION DIRECTOR

PROJECT MANAGER

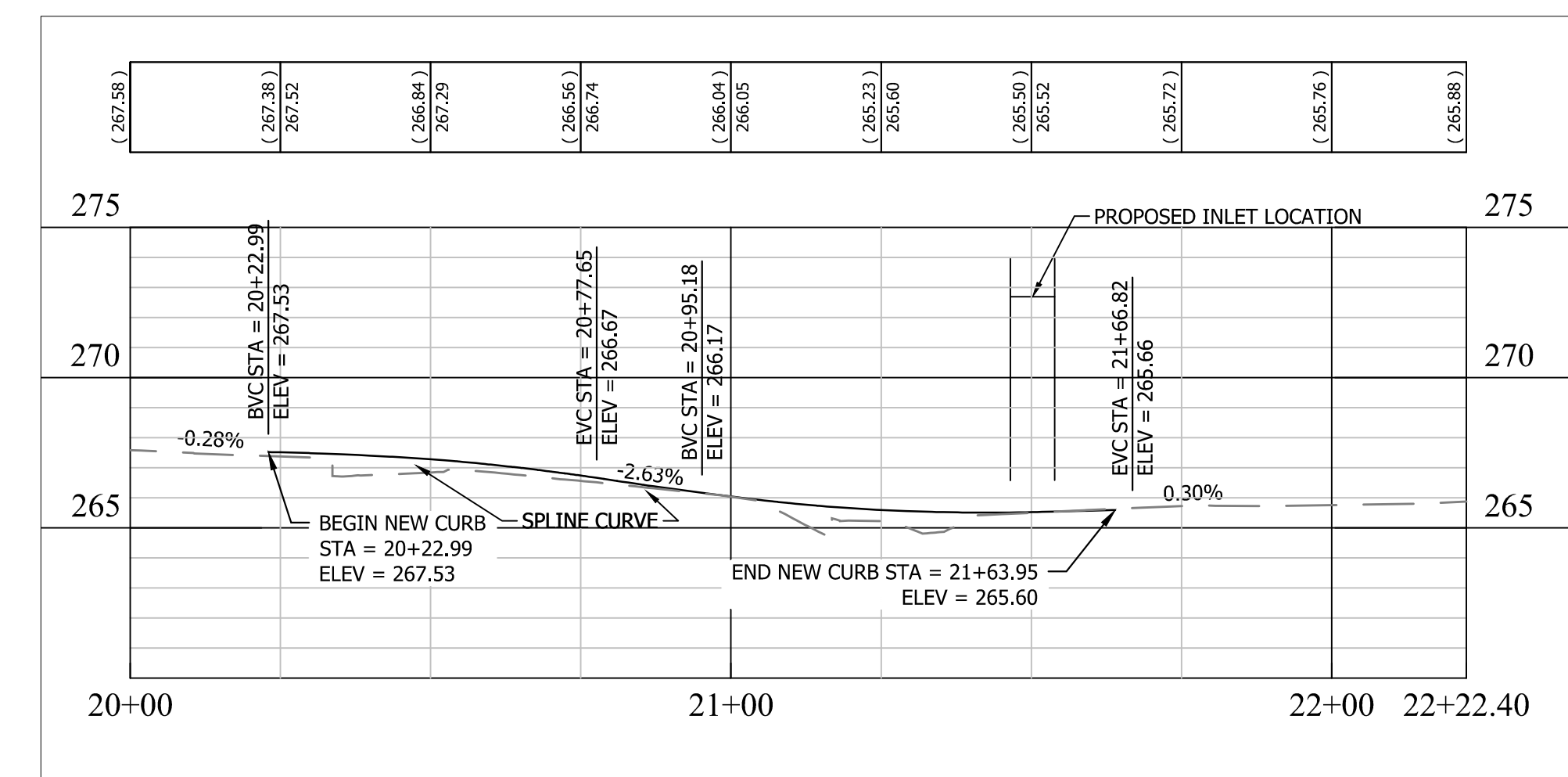
Revisions Date



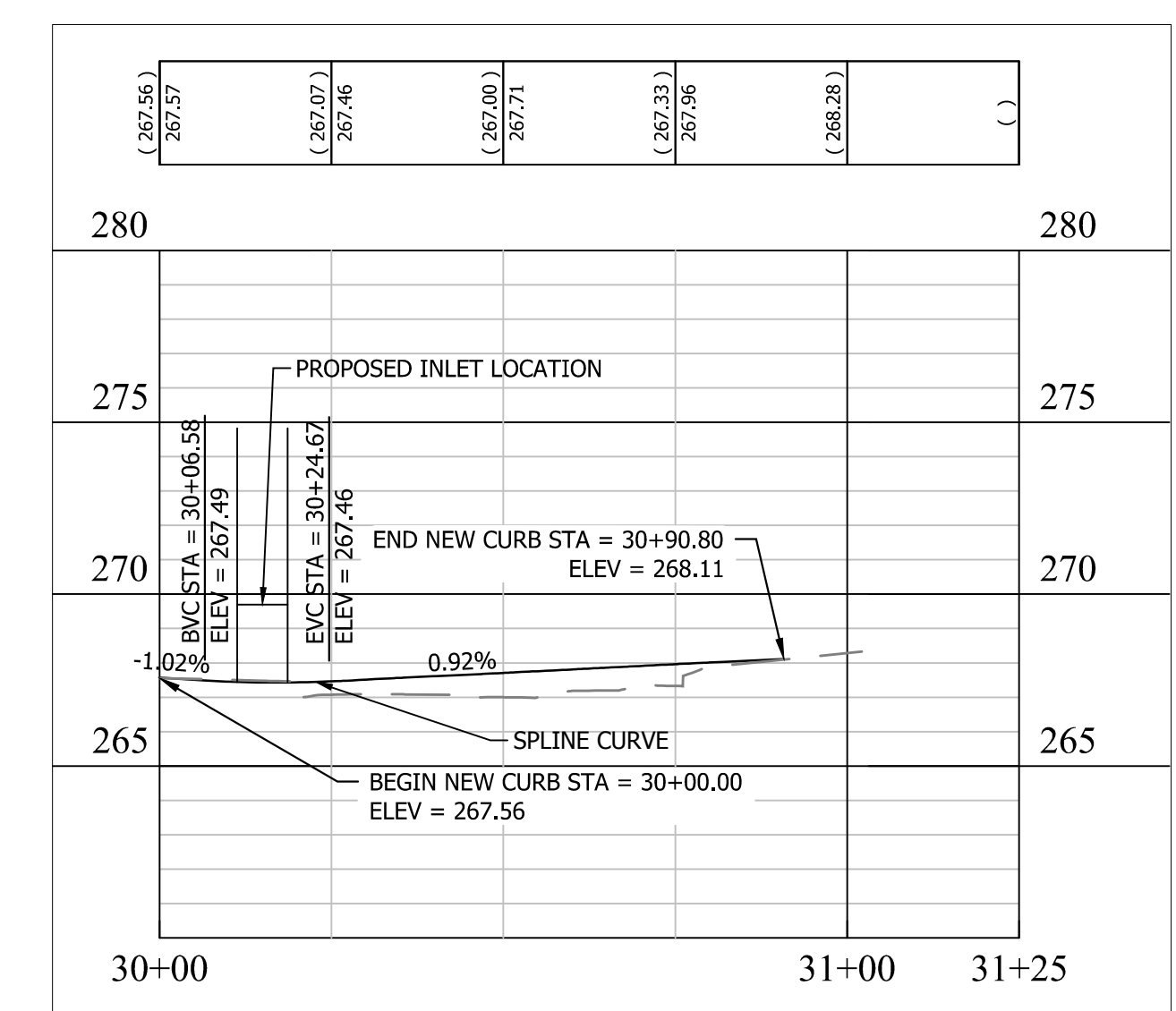
TOC - WB Washington Midblock



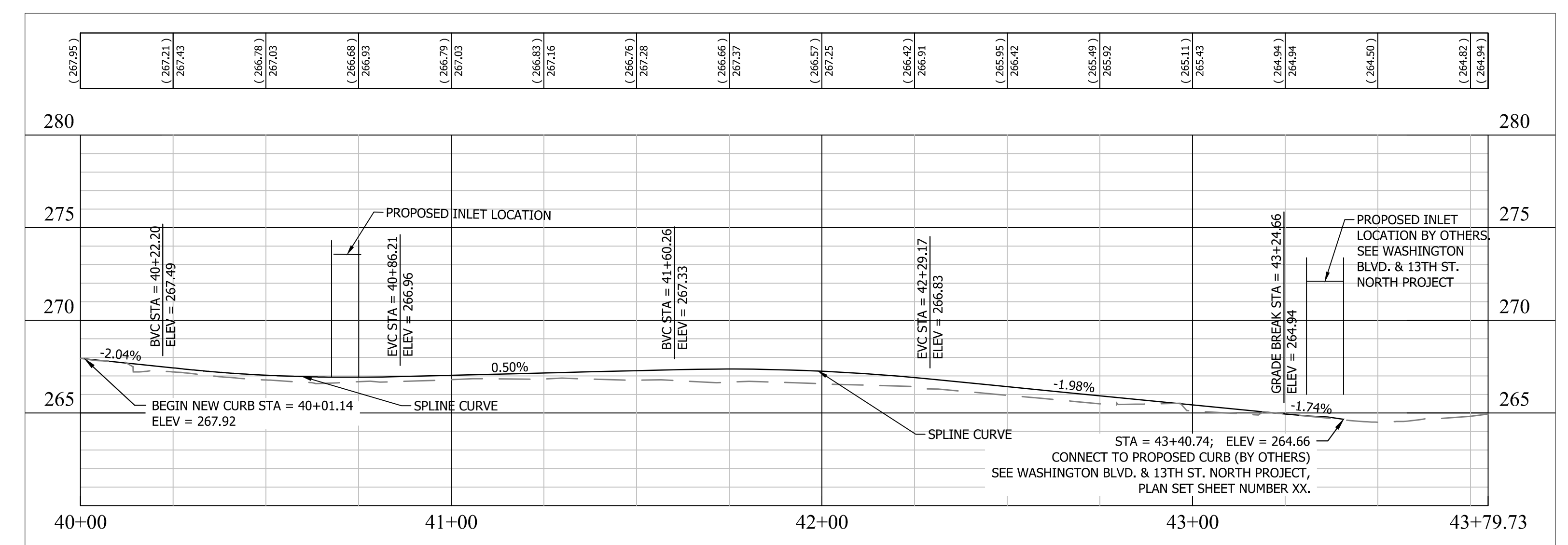
TOC - WB Washington to NB Clarendon



TOC - SB Wilson to NB Clarendon



TOC - SB Wilson to Irving



TOC - Irving to WB Washington

Project Name and Location
Clarendon Circle Improvements
CURB RETURN PROFILES
Wilson Blvd. at Washington Blvd.

Designed: IJC
Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 12-13_Curb Return Profiles.dwg
Path: M:\projects\2011\11182_Arlington Multimodal\Task 3 - Clarendon Circle\2430\Clarendon\Plan
Plotted: May 27, 2016
Plotted by: icathcart

Scale: Hor.: 1"=25'
Vert.: 1"=5'

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Designed: IIC

Drawn: IIC

Checked: MRM

Miss Utility Transmittal #: 5057

Filename: 12-13_Curb Return Profiles.dwg

Path: M:\projects\2011\11192_Arlington Multimodal\Task

3 - Clarendon Circle\2016\12\13\1306\Clarendon\Plan

Plotted: May 26, 2016

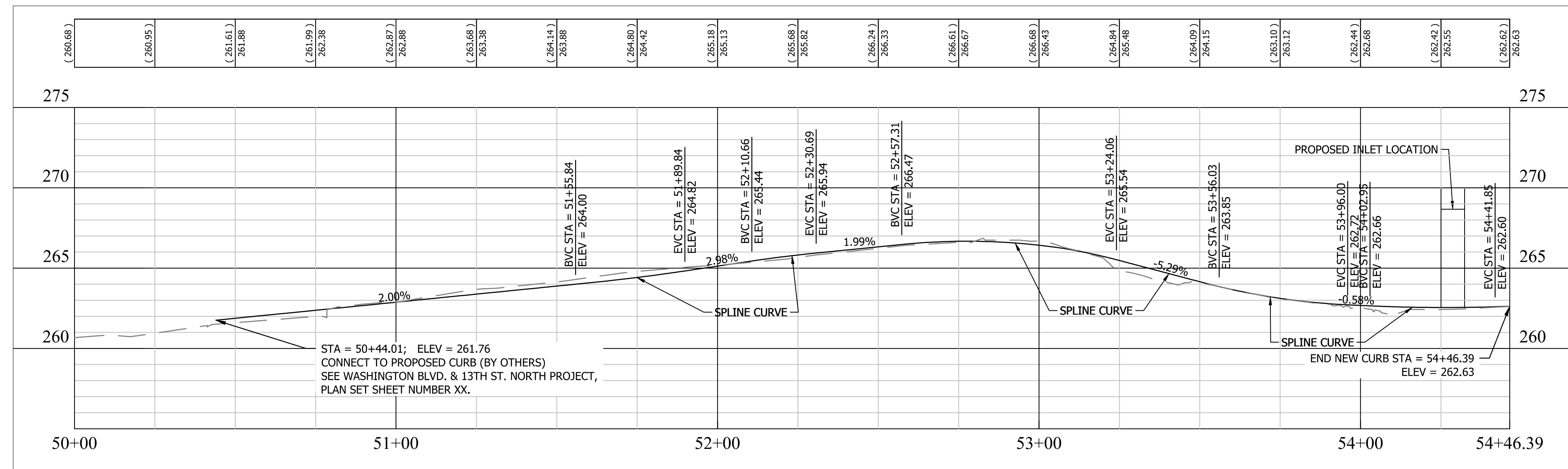
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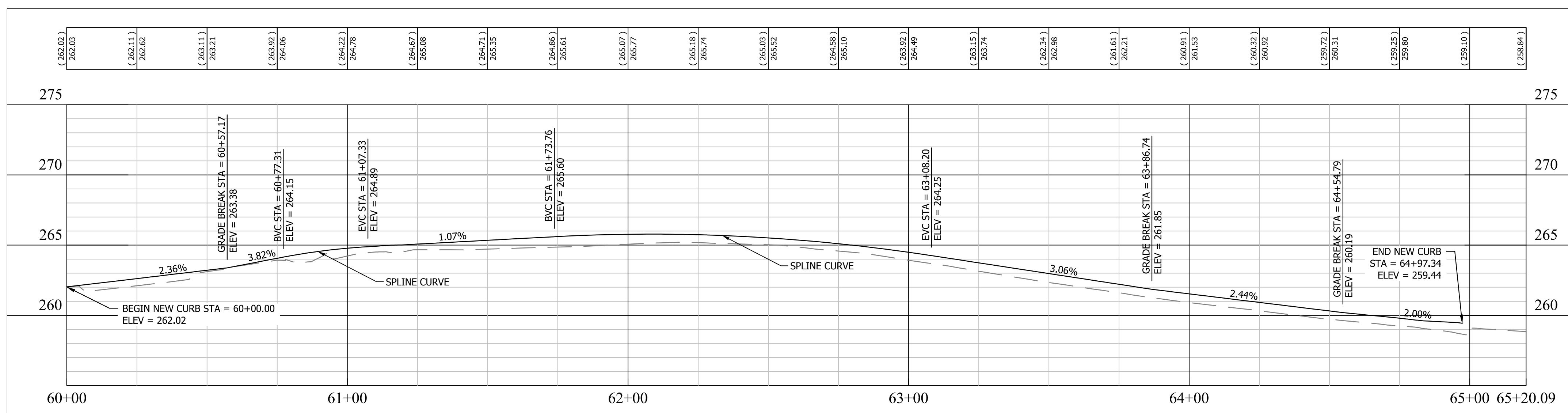
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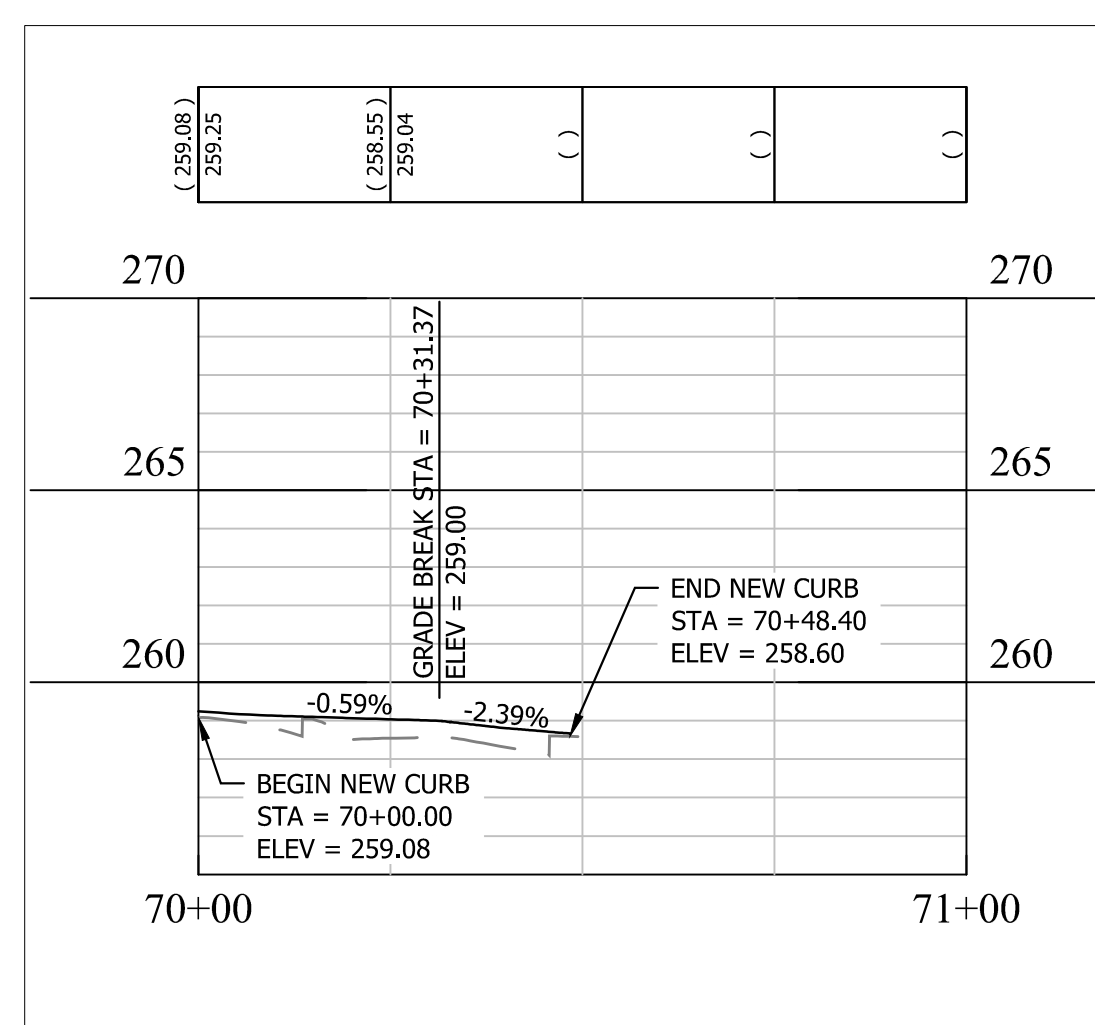
13



TOC - EB Washington to SB Wilson



TOC - NB Wilson to EB Washington



TOC - NB Hudson to EB Washington

DRAINAGE DESCRIPTIONS

- 1

1 Mod. CB-2A Req'd.
L=8', H=2.2', Inv. 265.3
Modified for Less Than Minimum Structure Height
- 1

2

46' - 15" Storm Sewer Pipe Req'd. (1' Cover)
Inv.(In) 265.3 Inv.(Out) 265.1
- 2

1.7 Lin. Ft. Mod. MH-1 Req'd.
Inv. 265.1
Connect to Existing 15" Pipe
Modified for Less Than Minimum Structure Height
- 3

Modify Existing Catch Basin
Convert Existing CB to Manhole
1 St'd. MH-1 Frame & Cover Req'd.
Proposed Top Elev. 267.4
- 4

1 Mod. CB-2A Req'd.
L=8', H=3.0', Inv. 263.9
Connect to Existing 15" Pipe
Modified for Less Than Minimum Structure Height
- 5

Adjust Existing Catch Basin
Adjust to Grade, Raise/Lower 0.1'
1 St'd. CB-2A Top, L=8' Req'd.
Proposed Top Elev. 262.5
- 6

1 VDOT St'd. DI-2C Req'd.
L=8', H=3.9', Inv. 261.2
- 6

7

26' - 15" Storm Sewer Pipe Req'd. (2' Cover)
Inv.(In) 261.2 Inv.(Out) 260.9
- 7

Adjust Existing MH
Adjust to Grade, Lower 0.5'
1 St'd. MH-1 Frame & Cover Req'd.
Proposed Top Elev. 264.6
- 8

1 Mod. CB-2A Req'd.
L=6', H=3.1', Inv. 262.5
Connect to Existing 10" Pipe
Modified for Less Than Minimum Structure Height
- 9

Modify Existing Catch Basin
Convert Existing CB to Manhole
1 St'd. MH-1 Frame & Cover Req'd.
Proposed Top Elev. 265.5
St'd. IS-1 Req'd.
- 10

1 Mod. CB-2B Req'd.
L=10', H=3.4', Inv. 258.7
Modified for Less Than Minimum Structure Height
- 10

11

7' - 15" Storm Sewer Pipe Req'd. (2' Cover)
Inv.(In) 258.70 Inv.(Out) 258.66

11 2.6 Lin. Ft. Mod. MH-1 Req'd.
Inv. 258.6
1 St'd. MH-1 Frame & Cover Req'd.
Connect to Existing 15" Pipe
Modified for Less Than Minimum Structure Height

12 20' - Trench Drain Req'd.
Inv.(In) 264.5 Inv.(Out) 264.1
PolyDrain® PDX® or Equivalent.
12" Wide, 4% Manufactured Invert Slope.
Initial Channel Depth 6".
Grate Top to Follow Proposed Grade.
See Sheet Hardscape Plan for Grate Details.

13 12' - Trench Drain Req'd.
Inv.(In) 263.0 Inv.(Out) 262.5
PolyDrain® PDX® or Equivalent.
12" Wide, 1.0% Manufactured Invert Slope.
Initial Channel Depth 6" (At Gutter).
Grate Top to Follow Proposed Grade,
Manufacture in Two Segments.
See Detail This Sheet.
See Sheet Hardscape Plan for Grate Details.

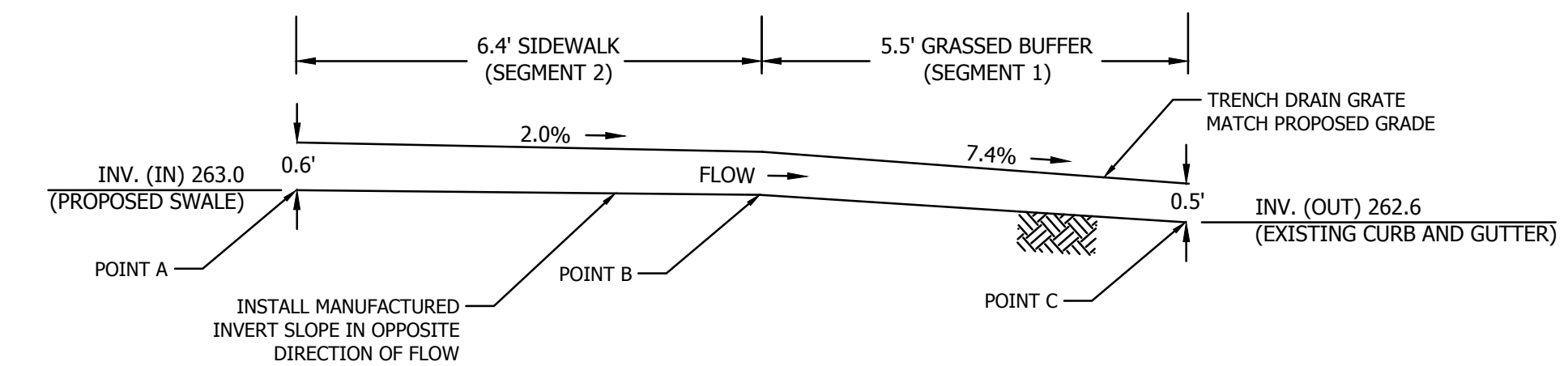
8324 Modify Existing Yard Inlet
Modify to Accept 12" Storm Sewer Pipe
Inv. 265.5

8324 1 11' - 12" Storm Sewer Pipe Req'd. (1' Cover)
Inv.(In) 265.5 Inv.(Out) 265.3

8415 Adjust Existing MH
Adjust to Grade, Raise/Lower 0.1'
1 St'd. MH-1 Frame & Cover Req'd.
Proposed Top Elev. 263.4

8480 Adjust Existing MH
Adjust to Grade, Lower 0.5'
1 St'd. MH-1 Frame & Cover Req'd.
Proposed Top Elev. 264.7

8547 Adjust Existing MH
Adjust to Grade, Raise 0.1'
1 St'd. MH-1 Frame & Cover Req'd.
Proposed Top Elev. 261.7



TRENCH DRAIN DETAIL (STR. 13)
(N.T.S.)

TRENCH DRAIN ELEVATIONS (STR. 13)

POINT	STATION	OFFSET	INV. ELEV.	TOP OF GRATE
A	20+79.5	16.7	263.0	263.6
B	20+73.5	16.9	262.9	263.5
C	20+68.0	17.0	262.6	263.1

NOTE: STATION OFFSETS MEASURED FROM N. IRVING STREET BASELINE.

ALLOWABLE PIPE MATERIAL TABLE

	CONCRETE	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) PROFILE WALL PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
STORM SEWER: WASHINGTON BLVD. WILSON BLVD. CLARENDON BLVD. N. IRVING ST.	X			X		X	X	X



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Designed: MJA

Drawn: MJA

Checked: LRN

Miss Utility Transmittal #: 5057

Filename: 16_Drainage Descriptions.dwg

Path: M:\projects\201111192_Arlington MultimodalTask

Plotted: May 26, 2016

Plotted by: tsozmoza

Scale: N/A

Sheet

16

Project Name and Location

Clarendon Circle Improvements
DRAINAGE DESCRIPTIONS
Wilson Blvd. at Washington Blvd.

314.43513.D09S.S16.0000

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

Project Name and Location

**Clarendon Circle
Improvements**

STORM SEWER PROFILES

Wilson Blvd. at Washington Blvd.

314.43513.D09S.S16.0000

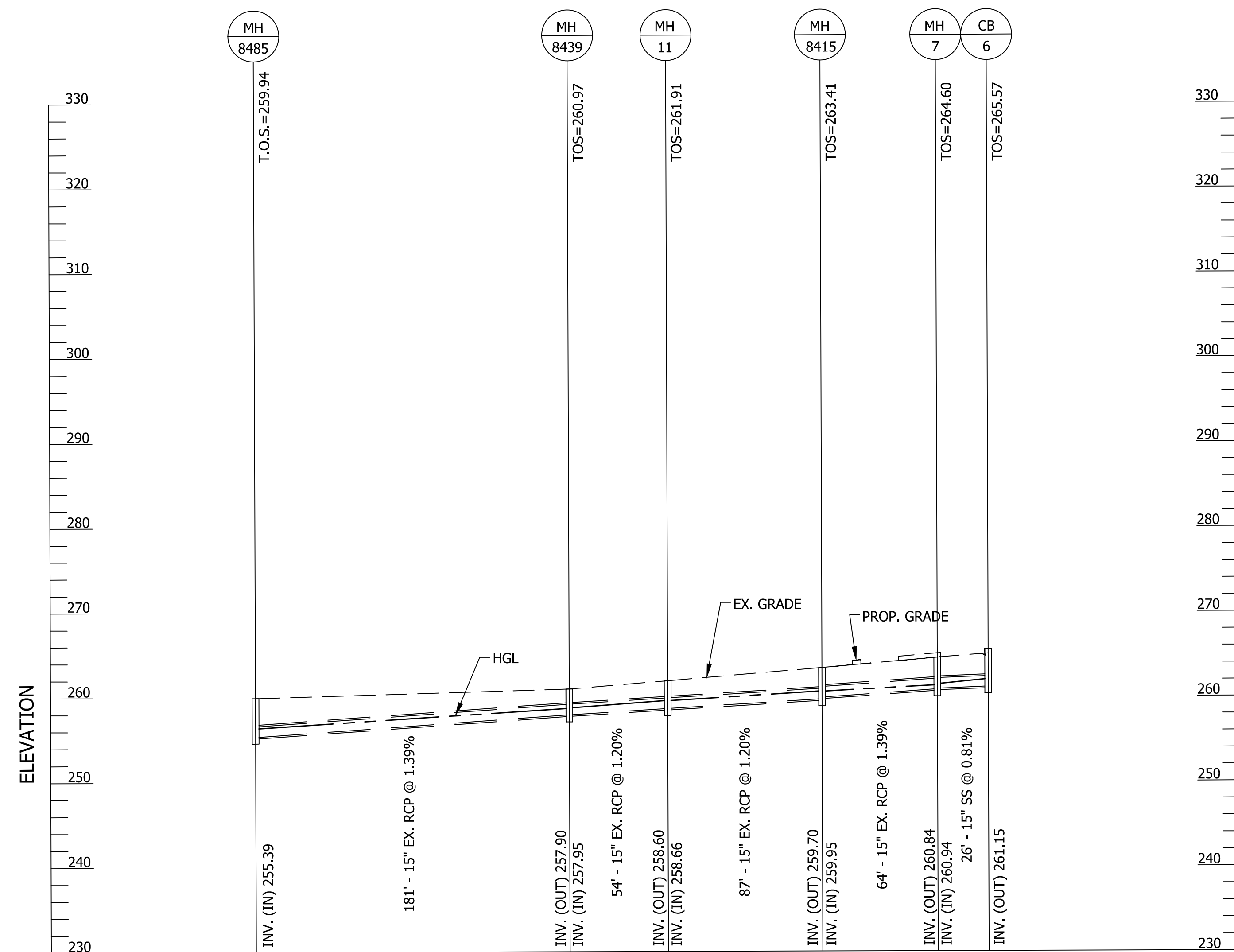
Designed: MJA
Drawn: MJA
Checked: LRN
Miss Utility Transmittal #: 5057

Filename: 17_Storm Sewer Profiles.dwg
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3 - Clarendon Circle\CAD\Civil3D\ClarendonPlan
Plotted: May 19, 2016
Plotted by: marnone

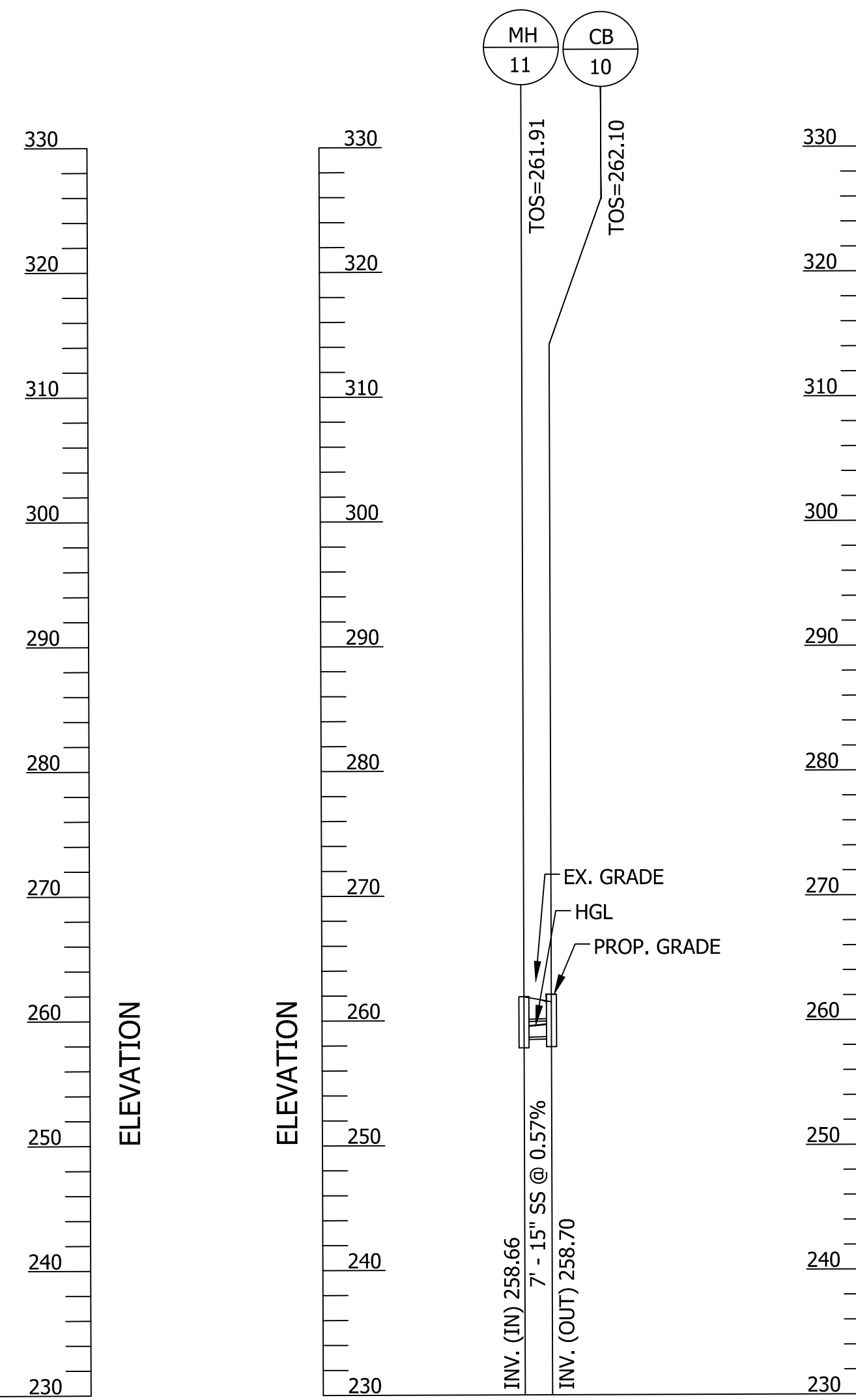
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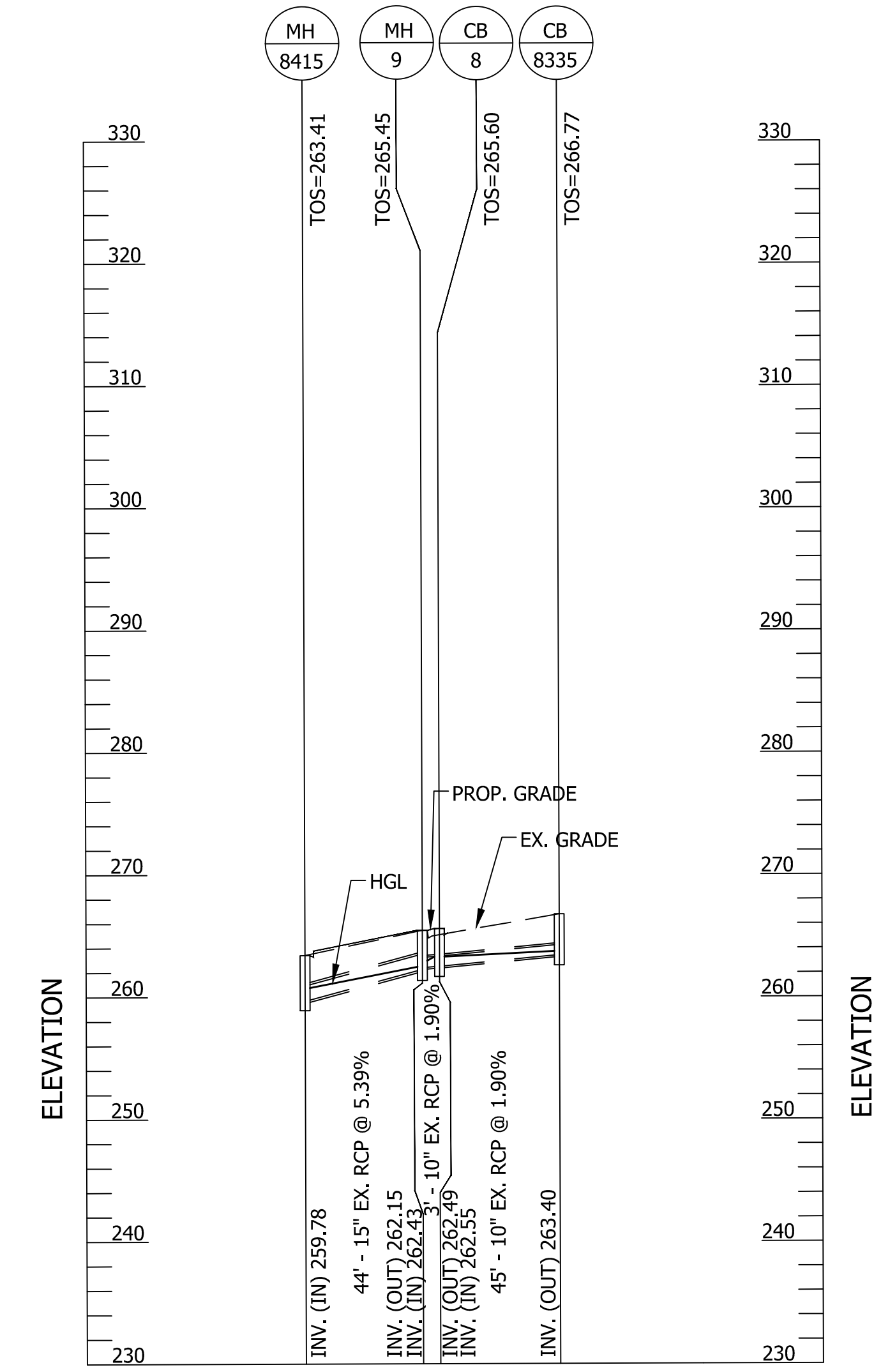
17



OUTFALL 8485



BRANCH 10 TO 11



BRANCH 8335 TO 8415

LEGEND

- RCP = REINFORCED CONCRETE PIPE
- SS = STORM SEWER
- HGL = HYDRAULIC GRADE LINE
- TOS = TOP OF STRUCTURE

Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

Project Name and Location

**Clarendon Circle
Improvements**
STORM SEWER PROFILES
Wilson Blvd. at Washington Blvd.

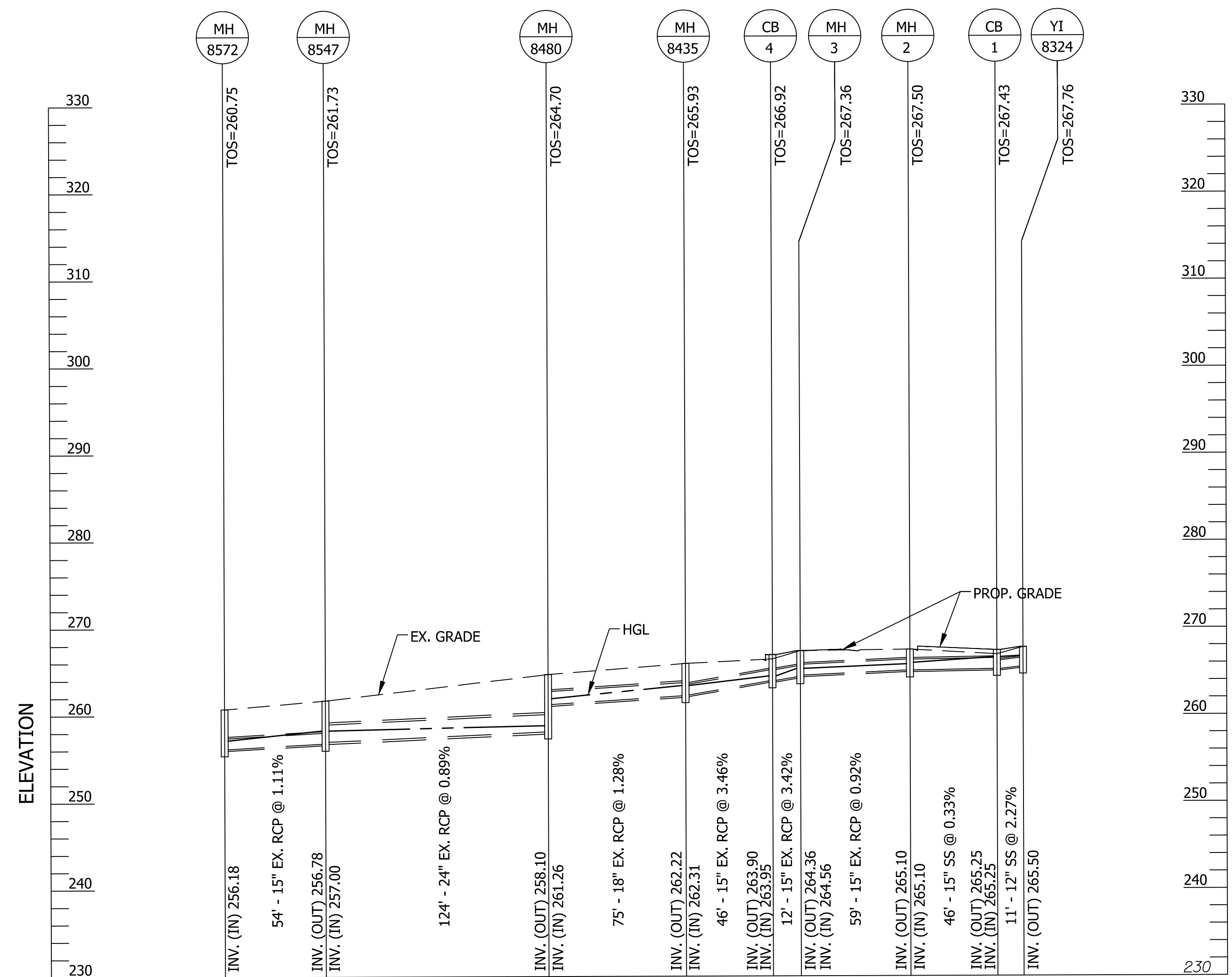
314.43513.D09S.S16.0000

Designed: MJA
Drawn: MJA
Checked: LRN
Miss Utility Transmittal #: 5057

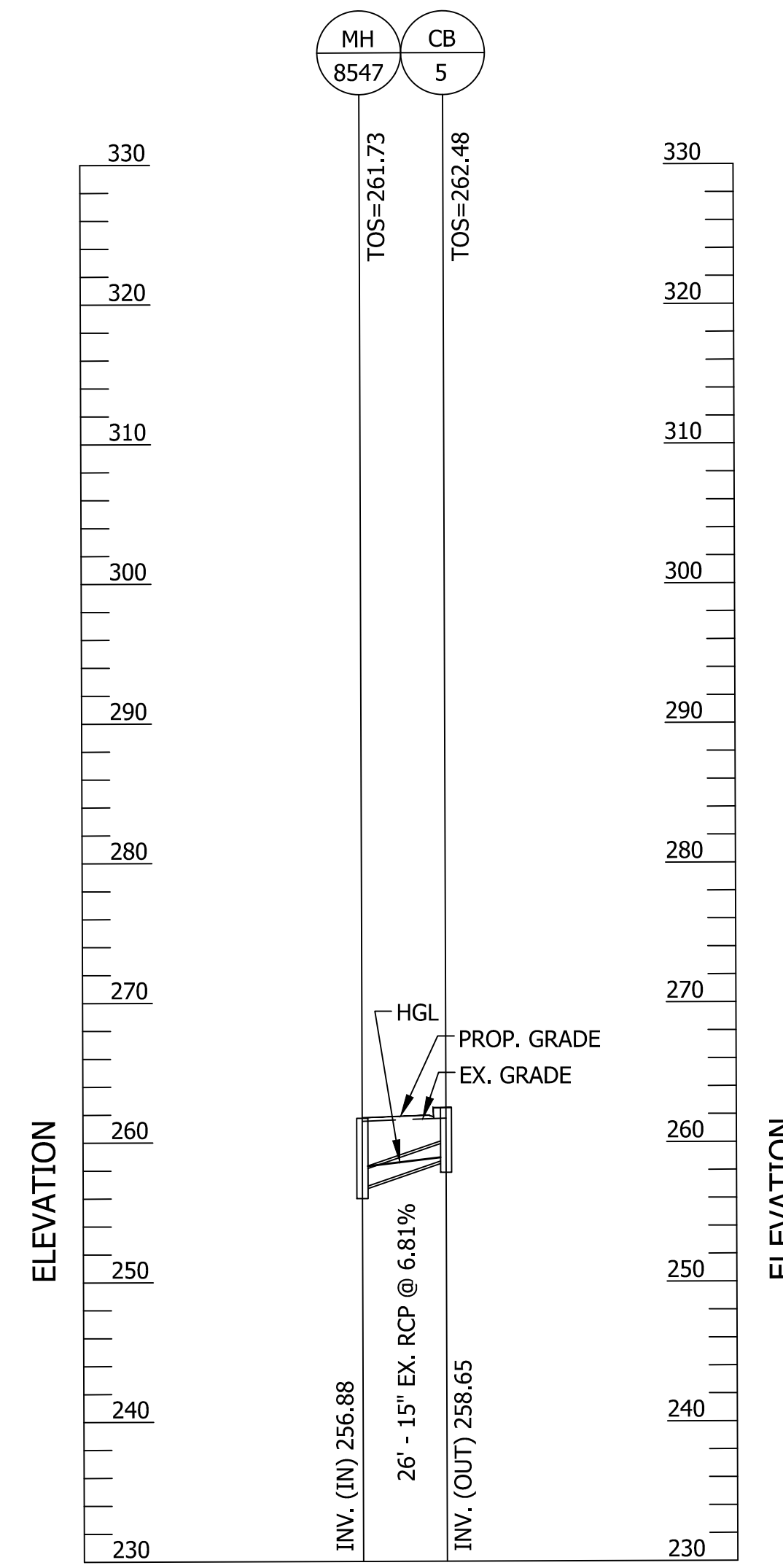
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Path: M:\projects\201111192_Arlington Multimodal\Task
3 - Clarendon Circle\CAD\Civil\3d\ClarendonPlan
Plotted: May 19, 2016
Plotted by: marnone

Scale: Hor.: 1"=50'
Vert.: 1"=10'

Sheet **17A**



OUTFALL 8572



BRANCH 5 TO 8547

LEGEND

- RCP = REINFORCED CONCRETE PIPE
- SS = STORM SEWER
- HGL = HYDRAULIC GRADE LINE
- TOS = TOP OF STRUCTURE

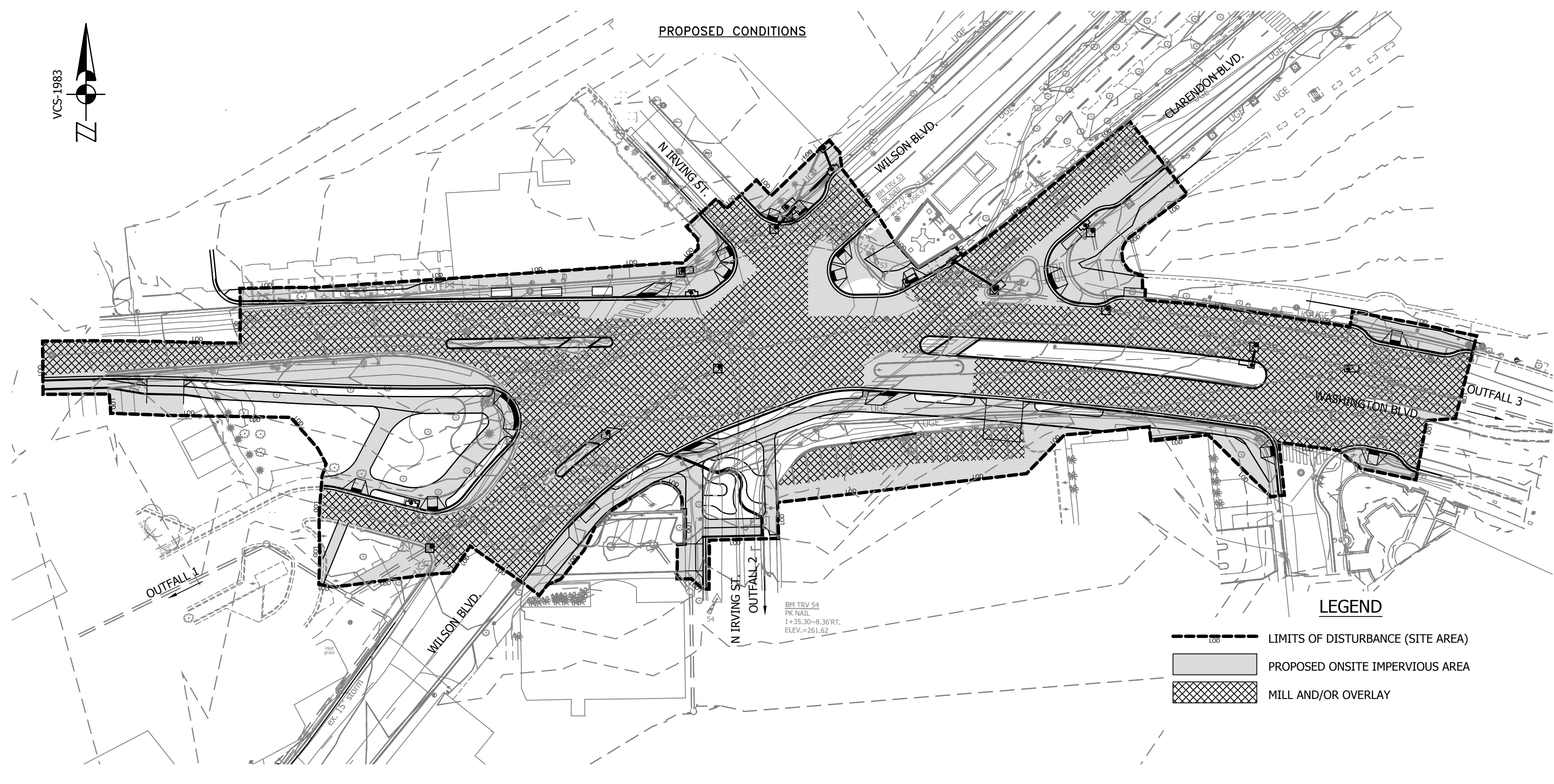
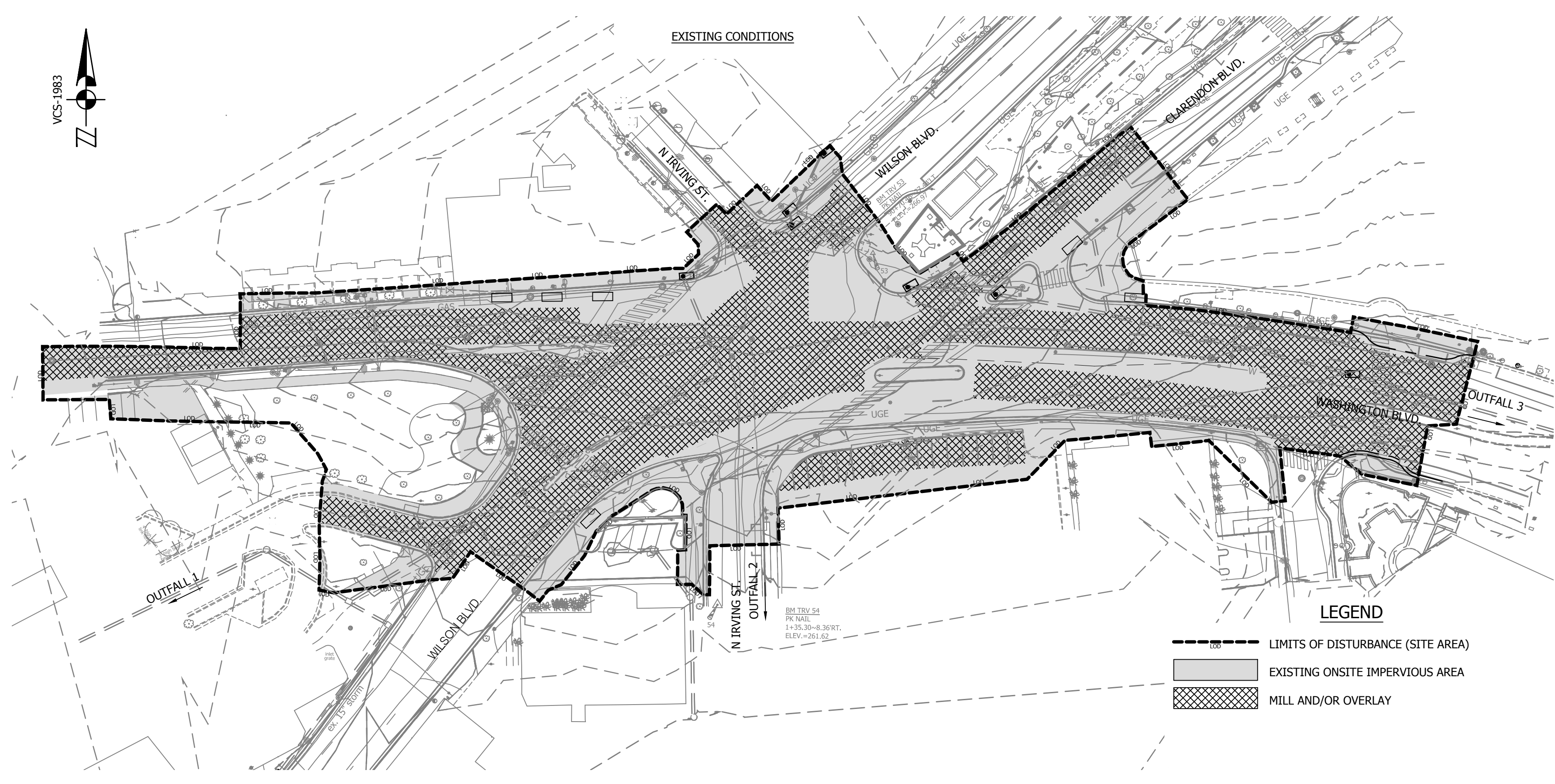
STORMWATER MANAGEMENT NARRATIVE

THIS PROJECT INVOLVES RECONSTRUCTION OF THE 6-LEG INTERSECTION OF WILSON BLVD., WASHINGTON BLVD., CLARENDON BLVD., AND NORTH IRVING ST., COMMONLY KNOWN AS CLARENDON CIRCLE. THE RECONSTRUCTION WILL IMPROVE PEDESTRIAN, BIKE, AND MOTORIST ACCESS SAFETY BY: IMPROVING THE INTERSECTION GEOMETRY AND MINIMIZING THE SKEW OF MOTORIST ENTERING/EXITING THE AREA, REDUCING INTERSECTION CROSSING WIDTHS AND ADDING REFUGE ISLANDS, RECONSTRUCTING CURB RAMP, ADDING STAND-ALONE BIKE LANES, RECONSTRUCTING AND EXPANDING THE EXISTING SIDEWALK, IMPROVING TRAFFIC CONTROL (SIGNALS, SIGNS, AND MARKINGS) AND LIGHTING, AND REDUCING THE INTERSECTION TO 5-LEGS BY CLOSING OFF NORTH IRVING STREET. THE SITE DRAINS TO BOTH FOUR MILE RUN (ZONE A) AND THE POTOMAC WATERSHED.

THE PROJECT WAS FUNDED PRIOR TO 7/1/2012, THEREFORE IT IS GRANDFATHERED UNDER § 60-12(B)(1) AND SUBJECT TO THE PART IIC TECHNICAL CRITERIA. PER DIRECTION OF QIANQIAN LI (ARLINGTON COUNTY ESC & SWM PROGRAM ADMINISTRATOR), BECAUSE THIS IS A PUBLIC ROAD PROJECT, IT IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT CONTROLS (QUALITY AND QUANTITY), PER SECTION § 61-15(A) (AS OF 12/2008).

WATER QUALITY
ALTHOUGH THIS PROJECT IS EXEMPT FROM WATER QUALITY REQUIREMENTS, THE POTENTIAL LOAD REDUCTION HAS BEEN DETERMINED FOR RECORD KEEPING PURPOSES USING THE ARLINGTON COUNTY CHESAPEAKE BAY PRESERVATION ORDINANCE STORMWATER REQUIREMENTS WORKSHEET (SEE CALCULATIONS THIS SHEET). THE SITE AREA AS COMPUTED FOR STORMWATER MANAGEMENT PURPOSES IS 56565 SF AND EXCLUDES AREAS WHERE THE SUBGRADE WILL NOT BE EXPOSED, INCLUDING STAGING AREAS AND MILL AND OVERLAY. THIS PROJECT CREATES A NET DECREASE IN IMPERVIOUS; THE TOTAL IMPACT AREA REQUIREMENT IS 1443 SF.

WATER QUANTITY
ALTHOUGH DETENTION IS NOT REQUIRED, CALCULATIONS TO MEET MINIMUM STANDARD 19 (MS 19) ARE INCLUDED HEREIN. THERE ARE THREE OUTFALLS IDENTIFIED FOR THIS SITE AS SHOWN IN THE PROPOSED CONDITIONS MAP THIS SHEET. ALL OUTFALLS CONSIST OF EXISTING STORM SEWER SYSTEMS. OUTFALLS 1 AND 3 HAVE BEEN VERIFIED TO HAVE ADEQUATE CAPACITY FOR THE 10-YEAR STORM, AND HAVE NON-EROSIVE VELOCITIES FOR THE 2-YEAR STORM; SEE STORM SEWER COMPUTATIONS SHEET 15. SURVEY FOR OUTFALL 2 REVEALS PIPES WITH LESS THAN ADEQUATE CAPACITY AND NEGATIVE SLOPES. THIS OUTFALL WILL BE ADDRESSED IN A FUTURE IMPROVEMENT PROJECT.



Arlington County Chesapeake Bay Preservation Ordinance Stormwater Requirements Worksheet

Step 1. Enter site characteristics and determine impact area			
	Area (sf)	%I	
Total Site Area	56565		
Existing Impervious Cover	45782	80.9%	
Proposed Impervious Cover	42647	75.4%	
Average Land Cover condition	9050	16.0%	
90% of Existing Impervious Cover	41204	72.8%	
			Impact area (sf)
	pre<=avg; post<=avg	No	--
	pre<=avg; post>avg	No	--
	pre>avg	Yes	1443
	Total Impact Area		1443
	Impact area > 50% of total impervious area?		No
	Impact Area Requirement		1443
Maximum Watershed Management Fund fee	\$ 2.50	\$	3,608

Arlington County
Chesapeake Bay Preservation Ordinance
Stormwater Requirements Worksheet
Version 2.0 October 2011
Applicant:
Arlington County Department of
Environmental Services, prepared by RK&K

Step 2. Vehicle-related pavement treatment			
	Area (sf)		
Vehicle-related pavement	0		
Required to be treated	0		
Required min. treatment efficiency	50%		
Treatment credit needed	0	Not to exceed Impact Area Requirement	
Pervious surface BMPs	Impervious area reduction (sf)		Treatment Credit (sf)
Pervious paving system			0
Additional BMPs	Impervious area treated (sf)	Treatment efficiency	Treatment Credit (sf)
	(A)	(B)	(A X B)
		50%	0
			0
			0
Total vehicle-related pavement stormwater treatment credits			0

Is vehicular treatment requirement met?
YES

Step 3. Additional treatment			
	Impervious area reduction (sf)	Treatment efficiency	Treatment Credit (sf)
Pervious surface BMPs			0
Pervious paving system			0
Vegetated roof system			0
Additional BMPs	Impervious area treated (sf)	Treatment efficiency	Treatment Credit (sf)
	(A)	(B)	(A X B)
		50%	0
			0
			0
Total additional treatment credits			0

STOP!
Are a minimum of 50% of the treatment credits obtained through the use of BMPs that provide annual runoff volume reduction (RR) as detailed in the most recent version of the Virginia DCR Stormwater Design Specifications?
COMPLETE TABLE BELOW

Step 4. Determine compliance			
	Area (sf)		
Impact area	1443		
Total treatment credits	0		
Remaining impact area	1443		
Total Watershed Management Fund fee	\$ 3,608	Fee payment only allowed if exception criteria met	

	Treatment credit
Runoff Reduction (RR) BMPs	0
Roof top disconnection	0
Vegetated roof	0
Rainwater harvesting	0
Permeable pavement	0
Infiltration	0
Bioretention	0
Total	0
Percent of total treatment credits	#DIV/0!
Requirement met?	#DIV/0!

EXCEPTIONS ELIGIBILITY:
1. At least 50 percent of required treatment credits must come from 'runoff reduction' BMPs?
2. More than 80% of the post-development impervious area must be treated by BMPs with a least a 50% treatment efficiency



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606
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Approvals _____ Date _____
DESIGN TEAM SUPERVISOR _____
CONSTRUCTION MANAGEMENT SUPERVISOR _____
WATER, SEWER STREETS BUREAU CHIEF _____
TRANSPORTATION DIRECTOR _____
PROJECT MANAGER _____

Revisions _____ Date _____

Project Name and Location
Clarendon Circle Improvements
STORMWATER MANAGEMENT PLAN
Wilson Blvd. at Washington Blvd.
314-43513.D09S.S16.0000

Designed: TIS
Drawn: TIS
Checked: LRN
Miss Utility Transmittal #: 5057

Filename: 18_SWM.dwg
Path: M:\projects\2011\11162_Arlington Multimodal\Task 3 - Clarendon Circle\DCR\18\ClarendonPlan
Plotted: May 26, 2016
Plotted by: tsomoza

Scale: Hor: 1" = 50'



DEPARTMENT OF ENVIRONMENTAL SERVICES
Division of Transportation & Development

ACCS Bureau 2100 Clarendon Boulevard, Suite 900, Arlington, VA 22201
TEL 703-228-3681 FAX 703-228-7548 TTY 703-228-4611 www.arlingtonva.us

Date: 03/08/2016

To: Matt Martin, RK&K Consulting

From: Qianqian Li, P.E.
ESC & SWM Program Administrator
Arlington County, Department of Environmental Services
Development Services Bureau

Subject: Clarendon Circle Improvements SWM exemption

The Clarendon Circle Improvements Project was funded before 7/1/2012, therefore not subject to Arlington's current Stormwater Management Ordinance. It is granted as an exemption under the Chesapeake Bay Preservation Ordinance Section § 61-15(a). This exemption is applicable to public linear projects that consist solely of transportation and utility-related infrastructure.

Continual advancement of the design has occurred since 2007 when the project was first identified in the County Arterial Streets Capital Improvements Program. County Transportation Improvement Funds (TCF) were allocated to the project January 2009 for topographic survey, transportation study and preliminary engineering. In June 2010 additional funds were allocated for a major transportation study and 30% preliminary design. Additional funding and active project work by both County staff and consultants has continued to date. The project was divided into two projects in 2014, Clarendon Circle Improvements and Washington Blvd and 13th Street Improvements as needed to coordinate with the Clarendon West Development.

Because the project was funded before July 1st 2012, CB Preservation and detention Ordinance (Chapter 61 and 60), and the regulatory transition flowchart for county project will be used for the project as approved by DEQ.



ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
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2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

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Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

Project Name and Location

Clarendon Circle
Improvements

STORMWATER MANAGEMENT PLAN

Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: TIS
Drawn: TIS
Checked: LRN
Miss Utility Transmittal #: 5057

Filename: 18_SWM.dwg
Path: M:\projects\2011\11162_Arlington Multimodal\Task
3 - Clarendon Circle\2016\18\18_SWM.dwg
Plotted by: icathcart
Plotted: May 20, 2016

Scale: N.T.S.

Sheet

18A

TRENCH DRAIN SIZING CALCULATIONS

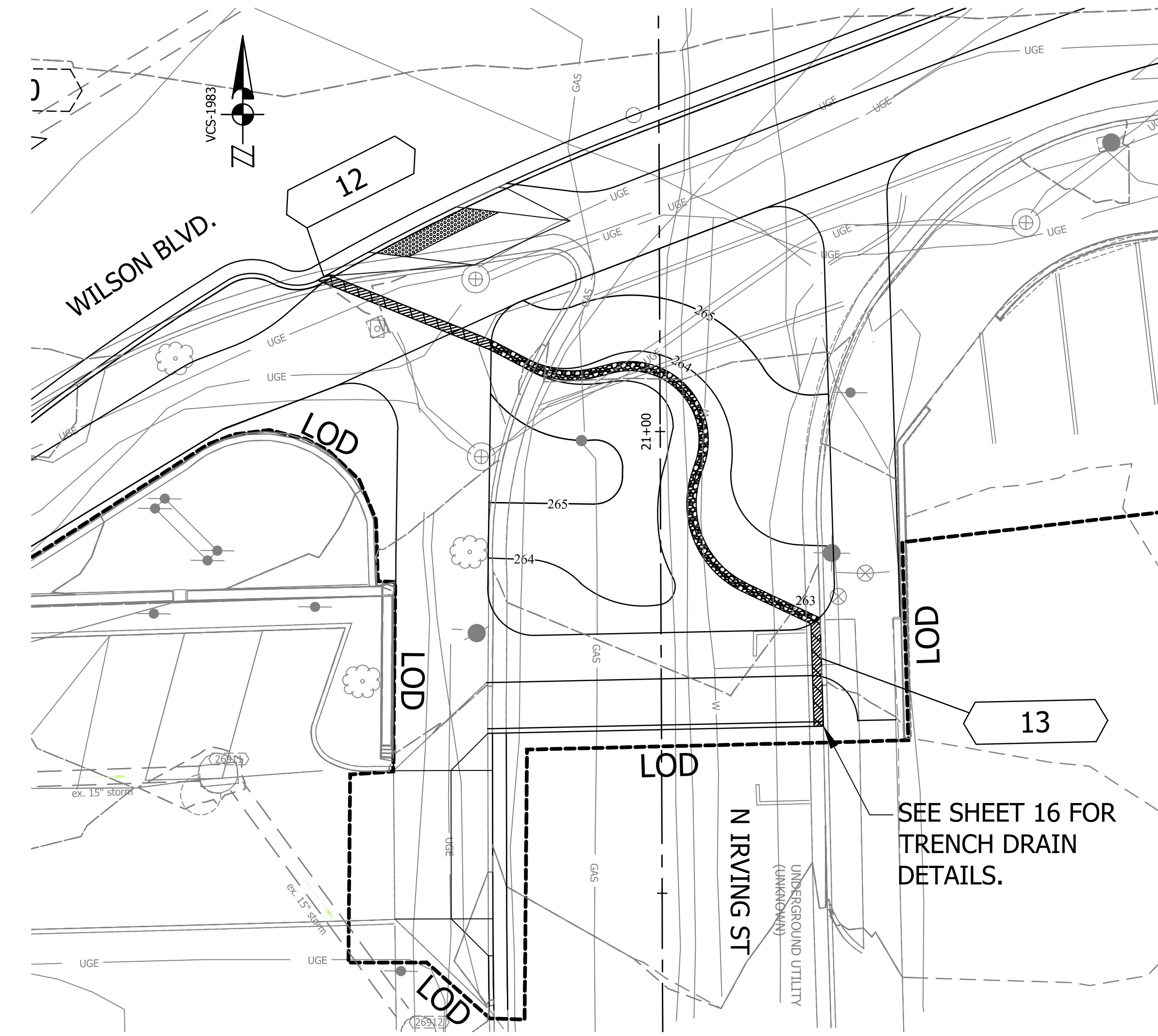
Worksheet for Str. 12

Project Description		
Friction Method	Manning Formula	
Solve For	Normal Depth	
Input Data		
Channel Slope	0.02000	ft/ft
Discharge	1.40	ft ³ /s
Section Definitions		
Station (ft)	Elevation (ft)	
0+00	0.50	
0+00	0.17	
0+00	0.00	
0+01	0.00	
0+01	0.17	
0+01	0.50	
Roughness Segment Definitions		
Start Station	Ending Station	Roughness Coefficient
(0+00, 0.50)	(0+01, 0.50)	0.013
Options		
Current Roughness Weighted Method	Pavlovskii's Method	
Open Channel Weighting Method	Pavlovskii's Method	
Closed Channel Weighting Method	Pavlovskii's Method	
Results		
Normal Depth	0.29 ft	
Elevation Range	0.00 to 0.50 ft	
Flow Area	0.26 ft ²	
Wetted Perimeter	1.38 ft	
Hydraulic Radius	0.19 ft	
Top Width	1.00 ft	
Normal Depth	0.29 ft	

TRENCH DRAIN SIZING CALCULATIONS

Worksheet for Str. 13

Project Description		
Friction Method	Manning Formula	
Solve For	Normal Depth	
Input Data		
Channel Slope	0.01000	ft/ft
Discharge	1.40	ft ³ /s
Section Definitions		
Station (ft)	Elevation (ft)	
0+00	0.80	
0+00	0.17	
0+00	0.00	
0+01	0.00	
0+01	0.17	
0+01	0.80	
Roughness Segment Definitions		
Start Station	Ending Station	Roughness Coefficient
(0+00, 0.80)	(0+01, 0.80)	0.013
Options		
Current Roughness Weighted Method	Pavlovskii's Method	
Open Channel Weighting Method	Pavlovskii's Method	
Closed Channel Weighting Method	Pavlovskii's Method	
Results		
Normal Depth	0.37 ft	
Elevation Range	0.00 to 0.80 ft	
Flow Area	0.34 ft ²	
Wetted Perimeter	1.53 ft	
Hydraulic Radius	0.22 ft	
Top Width	1.00 ft	
Normal Depth	0.37 ft	



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Worksheet for Str. 12

Results	
Critical Depth	0.42 ft
Critical Slope	0.00653 ft/ft
Velocity	5.34 ft/s
Velocity Head	0.44 ft
Specific Energy	0.73 ft
Froude Number	1.84
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.29 ft
Critical Depth	0.42 ft
Channel Slope	0.02000 ft/ft
Critical Slope	0.00653 ft/ft

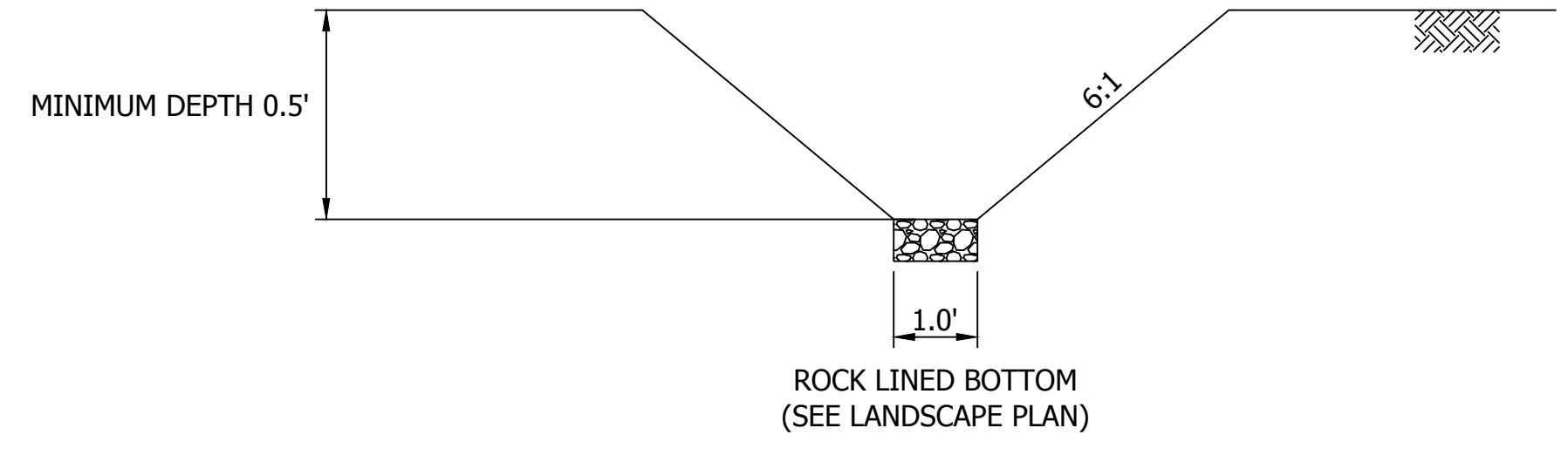
Worksheet for Str. 13

Results	
Critical Depth	0.42 ft
Critical Slope	0.00653 ft/ft
Velocity	4.16 ft/s
Velocity Head	0.27 ft
Specific Energy	0.63 ft
Froude Number	1.27
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.37 ft
Critical Depth	0.42 ft
Channel Slope	0.01000 ft/ft
Critical Slope	0.00653 ft/ft

SWALE DITCH COMP

LD-268					PROJECT Clarendon Circle	
Wilson Blvd					BY TIS	
RT SIDE					LOCATION Arlington	
					DATE 4/21/2016	
					SHEET 18B	

STA. TO STA.	FLOW LENGTH (ft)	0.9		0.5		0.3		CA		Tc (min)	I2	Q2 (cfs)	TYP. SECTION	Slope (F/Ft)	ALLOW. VEL. (ft/sec)	Protective Lining		I10	Q10 (cfs)	DEP (ft)	REMARKS	
		A (ac)	CA	A (ac)	CA	A (ac)	CA	INCR.	ACC.							n=0.05	n=0.015					
55		0.213	0.192		0	0.04	0.012	0.204	0.204	5.0	5.21	1.062	1	0.022	2.0	1.78	0.00	0.00	6.79	1.38	0.27	



SWALE TYPICAL SECTION N.T.S.

Project Name and Location
Clarendon Circle Improvements
 SWALE DETAILS
 Wilson Blvd. at Washington Blvd.

Designed: TIS
 Drawn: TIS
 Checked: LRN
 Miss Utility Transmittal #: 5057

Filename: 18_SWM.dwg
 Path: M:\projects\2011\11162_Arlington Multimodal\Task 3 - Clarendon Circle\2011\11162_Arlington Multimodal\Plan
 Plotted: May 26, 2016
 Plotted by: tsomoza

Scale: Hor: 1" = 10'

STORMWATER POLLUTION PREVENTION PLAN
Clarendon Circle Improvements, Wilson Blvd. at Washington Blvd.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

For Construction Activities At:

Clarendon Circle Improvements
Wilson Blvd. at Washington Blvd.
Arlington, VA 22201

Latitude: 38.0859 N (decimal degrees)

Longitude: 77.0971 W (decimal degrees)

Construction Activity Operator:

Insert Company/Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Email Address
Insert 24-hour Emergency Contact

SWPPP Preparation Date:

May 27, 2016

CERTIFICATION

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator Name: _____

Title: _____

Signature: _____

Date: _____

STORMWATER POLLUTION PREVENTION PLAN
Clarendon Circle Improvements, Wilson Blvd. at Washington Blvd.

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type	Located Onsite & Available for Review?	
Registration Statement	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Notice of Coverage Letter	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Construction General Permit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Pollution Prevention Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Erosion & Sediment Control Plan (or agreement in lieu of)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Stormwater Management Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Uncontaminated foundation or footing drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Uncontaminated excavation dewatering	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Landscape irrigation	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Others [describe]	<input type="checkbox"/> Yes	<input type="checkbox"/> No

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
<input type="checkbox"/>	Construction Entrance (Std. & Spec. 3.02)	NA	NA	Construction Activity Operator (See Cover Page of this SWPPP)
<input type="checkbox"/>	Silt Fence (Std. & Spec. 3.05)	NA	NA	
<input type="checkbox"/>	Culvert Inlet Protection (Std. & Spec. 3.08)	NA	NA	
<input type="checkbox"/>	Outlet Protection (Std. & Spec. 3.18)	NA	NA	
<input checked="" type="checkbox"/>	Rock Check Dam (Std. & Spec. 3.20)	Insert Date	Insert Date	
<input checked="" type="checkbox"/>	Temporary Seeding (Std. & Spec. 3.31)	As required by 3.31	NA	
<input checked="" type="checkbox"/>	Permanent Seeding (Std. & Spec. 3.32)	Insert Date	NA	
<input checked="" type="checkbox"/>	Sodding (Std. & Spec. 3.33)	Insert Date	NA	
<input checked="" type="checkbox"/>	Mulching (Std. & Spec. 3.35)	Insert Date	NA	
<input checked="" type="checkbox"/>	Storm Drain Inlet Protection (Std. & Spec. 3.07)	Insert Date	Insert Date	
<input checked="" type="checkbox"/>	Trees, Shrubs, Vines & Ground Covers (Std. & Spec. 3.37)	Insert Date	NA	
<input checked="" type="checkbox"/>	Tree Preservation and Protection (Std. & Spec. 3.38)	Insert Date	Insert Date	

STORMWATER POLLUTION PREVENTION PLAN
Clarendon Circle Improvements, Wilson Blvd. at Washington Blvd.

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants								Pollution Prevention Practice	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids		
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X							X	(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X					X	X		(2)	
Concrete washout and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X				X	(3)	
Structure construction, stucco, painting, and cleaning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X			X	X	(4)	
Dewatering operations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	X	X						X	(5)	
Material delivery and storage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X	X	X	(6)	
Material use during building process	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		X	X	X		X	X	X	(7)	
Solid waste disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								X	(8)	
Sanitary waste	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		X	X				X		(9)	
Landscaping operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X			X		X	X	(10)	
Others [describe]	<input type="checkbox"/> Yes <input type="checkbox"/> No	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	(11)	

STORMWATER POLLUTION PREVENTION PLAN
Clarendon Circle Improvements, Wilson Blvd. at Washington Blvd.

Pollution Prevention Practices:

- Clearing, grading, excavating and un-stabilized areas** – Utilize erosion and sediment controls to prevent sediment laden or turbid runoff from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities.
- Paving operations** – Cover storm drain inlets during paving operations and utilize pollution prevention materials such as drip pans and absorbent/oil dry for all paving machines to limit leaks and spills of paving materials and fluids.
- Concrete washout and cement waste** – Direct concrete wash water into a leak-proof container or leak-proof settling basin that is 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.
- Structure construction, stucco, painting and cleaning** – Enclose, cover or berm building material storage areas if susceptible to contaminated stormwater runoff. Conduct painting operations consistent with local air quality and OSHA regulations. Mix paint indoors, in a containment area or in a flat unpaved area. Prevent the discharge of soaps, solvents, detergents and wash water from construction materials, including the clean-up of stucco paint, form release oils and curing compounds.
- Dewatering operations** – Construction site dewatering from building footings or other sources may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.
- Material delivery and storage** – Designate areas of the construction site for material delivery and storage. Place near construction entrances, away from waterways, and avoid transport near drainage paths or waterways.
- Material use during building process** – Use materials only where and when needed to complete the construction activity. Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability and mixing of chemicals.
- Solid waste disposal** – Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible. Schedule waste collection to prevent the containers from overflowing.
- Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities. Locate sanitary facilities in a convenient location away from waterways.
- Landscaping operations** – Maintain as much existing vegetation as practicable. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Apply nutrients in accordance with manufacturer's recommendations and not during rainfall events.
- Others** – If applicable, describe your Pollution Prevention Practices.

6.0 Stormwater Management Controls

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
<input type="checkbox"/>	Post-development Stormwater Management Controls provided by a Larger Common Plan of Development or Sale	NA	Common Plan Construction Activity Operator
<input type="checkbox"/>	Rooftop Disconnection	NA	Construction Activity Operator (See Cover Page of this SWPPP)
<input type="checkbox"/>	Sheetflow to Vegetated Filter (1 or 2)	NA	
<input type="checkbox"/>	Grass Channel	NA	
<input type="checkbox"/>	Rainwater Harvesting	NA	
<input type="checkbox"/>	Permeable Pavement (1 or 2)	NA	

STORMWATER POLLUTION PREVENTION PLAN
Clarendon Circle Improvements, Wilson Blvd. at Washington Blvd.

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
<input type="checkbox"/>	Infiltration (1 or 2)	NA	Construction Activity Operator (See Cover Page of this SWPPP)
<input type="checkbox"/>	Bioretention (1 or 2)	Insert Date	
<input type="checkbox"/>	Others [describe]	Insert Date	

7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

- 1st Priority: Protect all people
- 2nd Priority: Protect equipment and property
- 3rd Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – If flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
- Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from entering drains (use absorbent or other material as necessary).
- Stop spill from spreading (use absorbent or other material).
- If spilled material has entered a storm sewer, contact locality's storm water department.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Normal Working Hours

DEQ Blue Ridge Regional Office (Roanoke)	540-562-6700
DEQ Blue Ridge Regional Office (Lynchburg)	434-582-5120
DEQ Northern Regional Office	703-583-3800
DEQ Piedmont Regional Office	804-527-5020
DEQ Southwest Regional Office	276-676-4800
DEQ Tidewater Regional Office	757-518-2000
DEQ Valley Regional Office	540-574-7800

Nights, Holidays & Weekends

VA Dept. of Emergency Management 24 Hour Reporting Service	804-674-2400
---	--------------

Local Contacts

Local Fire Department	703-228-3362
Local Police Department	703-558-2222

STORMWATER POLLUTION PREVENTION PLAN
Clarendon Circle Improvements, Wilson Blvd. at Washington Blvd.

8.0 Inspections & Corrective Action Log (make additional copies as necessary)

Qualified Inspector

Company/Organization: Insert Company/Organization Name
Name: Insert Name
Telephone Number: Insert Telephone Number
Qualifications: Insert Qualifications

Inspection Schedule

- Discharges to impaired waters, surface waters within a TMDL watershed, or exceptional waters:
- Once every 4 business days; or
 - Once every 5 business days and no later than 48 hours following a measurable storm event. If storm event occurs when there are more than 48 hours between business days, inspection must be conducted on the next business day.

Inspection Date: Insert Inspection Date

Best Management Practices (BMPs)	In Compliance with SWPPP?	Corrective Action Needed; Responsible Party	Date Corrective Action Taken
Erosion & Sediment Controls (Section 4.0)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Pollution Prevention Practices (Section 5.0)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Stormwater Management Controls (Section 6.0)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

Certification

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator Name: _____ Inspector Name: _____

Signature: _____ Signature: _____

Date: _____ Date: _____



ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Sheet 18C

Clarendon Circle Improvements

Signal Notes

A. POLES AND FOUNDATIONS

- MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
- MAST ARM POLES SHALL BE DESIGNED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS AND ARLINGTON COUNTY STANDARD TS7-1.6.
- MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS, LATEST EDITION. ALL POLES SHALL HAVE SIX BOLT PATTERN, AND SHALL CONFORM TO ARLINGTON COUNTY STANDARD TS4-2.
- THE COUNTY SHALL STAKE NEW POLE LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT MR. ALEXANDER TSYBIN AT 703-228-0652 TO SCHEDULE.
- THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN EXISTING RIGHT-OF-WAY.
- COBRA LIGHTING SHALL BE LED TYPE - (LUMEC GPLM-180W98LED4K-LE3-120-ARRA-BLDCMG-016-PH8-USA-WB7-NP WITH DYNAMIMMER). LUMINAIRES INSTALLED ON SIGNAL POLES SHALL BE INSTALLED WITH A PHOTOCELL.

B. CONTROLLER AND FOUNDATION

- NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS. ADD GENERATOR AND POLICE PANEL WITH RJ-45 SWITCH PER THE ARLINGTON COUNTY STANDARDS. INSTALL SFK MODEM TO BE COMPATIBLE WITH ARLINGTON COUNTY SYSTEM.
- CONTROLLER SHALL BE EIGHT PHASE EAGLE EPAC TS2 M-52. IT SHALL BE 3.34 OR HIGHER FIRMWARE AND SHALL BE INSTALLED AND SET AS FOLLOWS:
 - TO REST IN PHASE 2 & 6 GREEN INTERVAL
 - TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
- THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS TS4-1.1 AND TS4-1.2.
- THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS. THE COUNTY WILL INSTALL THE SYSTEM TIMINGS AND FINE TUNE AS NECESSARY.

C. TRAFFIC SIGNAL HEADS

- ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
- PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).

D. DETECTORS

- ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA NAVIGATOR VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED.
- NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.
- EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721), OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

- ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS TS4-4, TS4-5 AND/OR TS4-6. NEW JUNCTION BOX COVERS SHALL HAVE THE LETTERS "TRAFFIC" CAST IN THE TOP SURFACE DEPRESSION FOR ALL TRAFFIC SIGNAL RELATED JUNCTION BOXES CONTAINING CABLE WITH LESS THAN 50 VOLTS. TRAFFIC RELATED JUNCTION BOXES CONTAINING CABLE MORE THAN 50 VOLTS SHALL HAVE THE LETTERS "TRAF/ELEC". COMMUNICATION CABLE RELATED JUNCTION BOXES SHALL HAVE THE LETTERS "COMMUNICATIONS".
- HOME RUN JUNCTION BOX TO CONTROLLER SHALL BE TS-46, TYPE JB-S3 WITH A MINIMUM DEPTH OF 36".
- METER PEDESTAL SHALL MATCH COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED AS NOTED ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
- METER PEDESTAL SHALL BE INSTALLED WITH TORK MODEL 2101 PHOTO ELECTRIC SWITCH MOUNTED TO EXTERIOR OF THE METER ENCLOSURE.
- ELECTRIC SERVICE FOR TRAFFIC SIGNAL AND LIGHTING SHALL BE SEPARATELY METERED BUT SHALL BE INSTALLED ON THE SAME POLE, SEE LIGHTING PLAN SHEET 21B FOR DETAILS ON MODIFIED VDOT STANDARD SE-11.
- CONDUIT SYSTEM (3" STEEL) SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS

DIRECTED BY THE COUNTY ENGINEER.

- ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
- ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED.
- CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES.
- ALL CONDUITS PASSING BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND AVOIDING ALL UNDERGROUND UTILITIES DURING CONSTRUCTION ACTIVITIES.
- NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS.

F. SIGNS

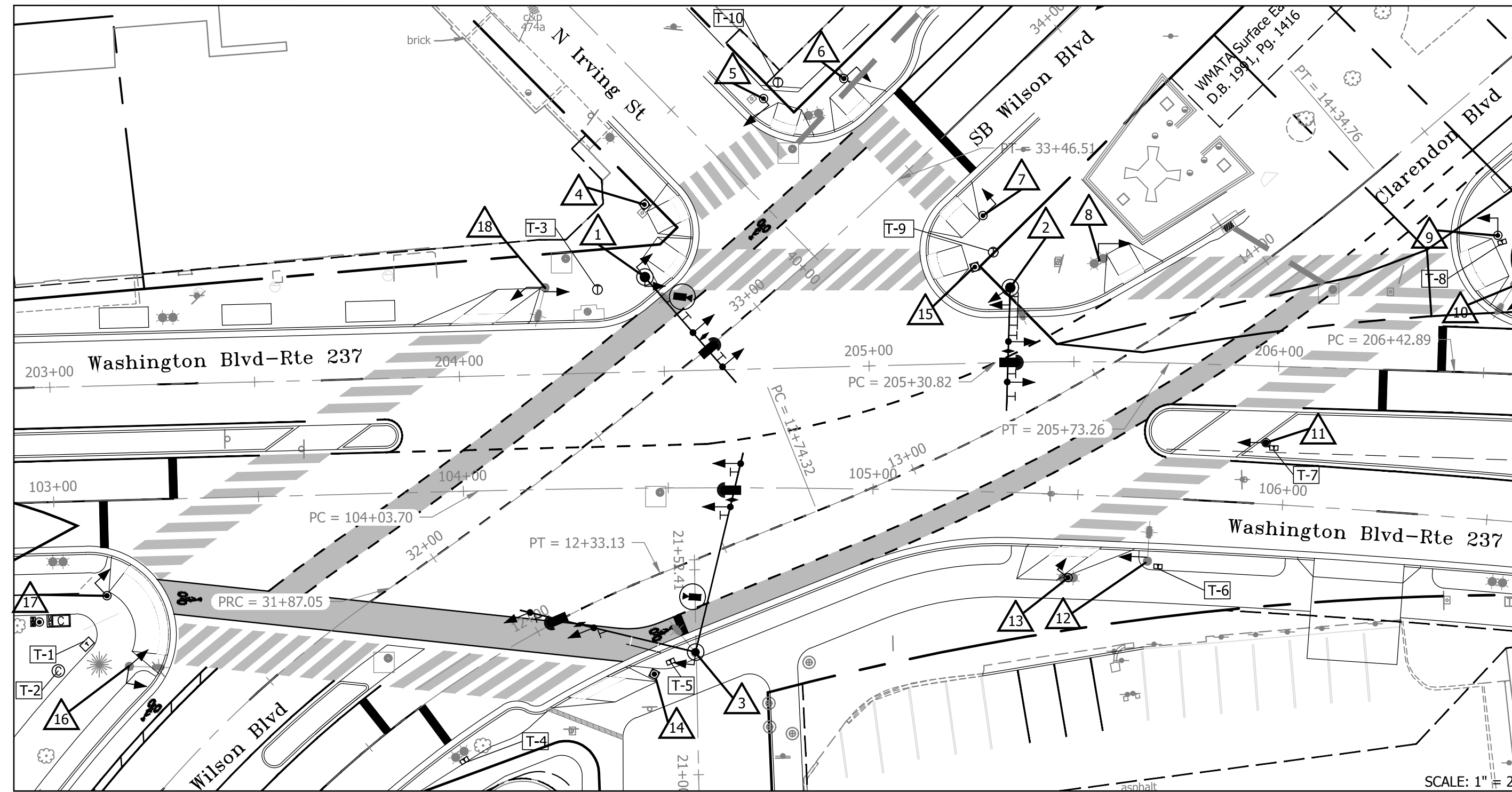
- ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

G. DEMOLITION/SALVAGE

- ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.

H. ACCESSIBLE PEDESTRIAN SIGNAL (APS) MESSAGES

- TO CROSS WASHINGTON BLVD:
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS WASHINGTON AT WILSON. WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- TO CROSS WILSON BLVD:
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS WILSON AT WASHINGTON. WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- TO CROSS CLARENDON BLVD:
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS CLARENDON AT WASHINGTON. WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- TO CROSS N IRVING ST:
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS IRVING AT WILSON. WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.



TRAFFIC SIGNAL POLE DETAILS											
NO.	POLE TYPE	SIG M.A.	FOUNDATION TYPE	POLE SIGNAL MOUNTING				POLE SCHEDULE		STREET NAME SIGN	BASELINE, STATION, OFFSET
				VEHICLE & PED HEADS	PED PUSH BUTTONS	SIGNS	VIDEO DETECTOR PREEMPTION & CCTV	POLE TYPE	MAST ARM TYPE		
1	MAST ARM POLE 30'	34'	TS4-2	61, 62, P63, P81	PB-81	S-1, S-2, S-5	V61, PE61, CCTV	NR-S40	H34, F40	S-7	WB WASHINGTON, 204+45.2, 23.2' LT.
2	MAST ARM POLE 30'	30'	TS4-2	23, 81, 82, P82	-	S-2, S-3, S-4	V81, PE81	NR-S40	H30, F40	S-8	WB WASHINGTON, 205+34.5, 18.4' RT.
3	TWIN MAST ARM POLE 30'	50' (EB) 46' (NB)	TS4-2	41, 42, P42	-	S-1, S-2	V41, PE41, CCTV	NR-T50	H50, F40	S-9	NB WILSON-CLARENDON, 12+34.0, 21.0' RT
4	PUSHBUTTON PED. POLE 4'-6"	-	TS4-3	21, 22	-	S-1, S-2	V21, PE21	-	H46, F40	S-7	-
5	PEDESTAL POLE 10'	-	TS4-3	P64	PB-64	S-5	-	-	-	-	N. IRVING ST. NORTH, 40+38.3, 20.9' LT
6	PEDESTAL POLE 10'	-	TS4-3	P83	PB-83	S-6	-	-	-	-	N. IRVING ST. NORTH, 40+65.3, 18.0' RT
7	PEDESTAL POLE 10'	-	TS4-3	P84	PB-84	S-5	-	-	-	-	SB WILSON, 33+46.2, 24.9' LT
8	CARLYLE POLE 16'	-	LT-8	P85	PB-85	S-5	-	-	-	-	SB WILSON, 33+54.9, 20.75' RT
9	PEDESTAL POLE 10'	-	TS4-3	P86	PB-86	S-5	-	-	-	-	NB WILSON-CLARENDON, 13+65.5, 23.1' LT
10	ALUM. OCTAFUTE POLE 30'	-	VDOT STD LF-1	P21	PB-21	S-6	-	-	-	-	NB WILSON-CLARENDON, 14+46.9, 30.9' RT
11	PEDESTAL POLE 15'	-	TS4-3	43	-	-	-	-	-	-	WB WASHINGTON, 206+57.5, 21.8 RT
12	ALUM. OCTAFUTE POLE 30'	-	VDOT STD LF-1	44	-	-	-	-	-	-	EB WASHINGTON, 105+95.1, 14.8 RT
13	CARLYLE POLE 16'	-	LT-8	P22	PB-22	S-6	-	-	-	-	EB WASHINGTON, 105+66.9, 15.5' RT
14	PUSHBUTTON PED. POLE 4'-6"	-	TS4-3	-	PB-42	S-5	-	-	-	-	EB WASHINGTON, 105+47.6, 20.3' RT
15	PUSHBUTTON PED. POLE 4'-6"	-	TS4-3	-	PB-82	S-6	-	-	-	-	NB WILSON-CLARENDON, 12+19.2, 22.2' RT
16	ALUM. OCTAFUTE POLE 30'	-	VDOT STD LF-1	63, P41	PB-41	S-5	-	-	-	-	WB WASHINGTON, 205+26.1, 23.5' LT
17	PEDESTAL POLE 10'	-	TS4-3	P61	PB-61	S-6	-	-	-	-	SB WILSON, 31+28.6, 26.4' LT
18	ALUM. OCTAFUTE POLE 30'	-	VDOT STD LF-1	83, P62	PB-62	S-5	-	-	-	-	EB WASHINGTON, 103+12.1, 23.2' RT
											WB WASHINGTON, 204+20.8, 21.2' LT

TRAFFIC SIGNAL JUNCTION BOX SCHEDULE		
NO.	TYPE	BASELINE, STATION, OFFSET
T-1	TS4-6 TYPE JB-S3	EB WASHINGTON, 103+07.9, 34.9' RT.
T-2	TS4-5	EB WASHINGTON, 103+01.0, 39.7' RT.
T-3	TS4-5	WB WASHINGTON, 204+34.1, 20.4' LT.
T-4	TS4-6 TYPE JB-S1	NB WILSON-CLARENDON, 11+60.4, 16.9' RT.
T-5	TS4-6 TYPE JB-S1	NB WILSON-CLARENDON, 12+26.0, 20.7' RT.
T-6	TS4-6 TYPE JB-S1	EB WASHINGTON, 105+70.3, 16.6' RT.
T-7	TS4-6 TYPE JB-S1	EB WASHINGTON, 105+99.5, 13.5' LT.
T-8	TS4-6 TYPE JB-S1	WB WASHINGTON, 206+54.7, 31.7' RT.
T-9	TS4-5	SB WILSON, 33+52.5, 28.9' RT.
T-10	TS4-5	SB WILSON, 40+36.7, 23.3' RT.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

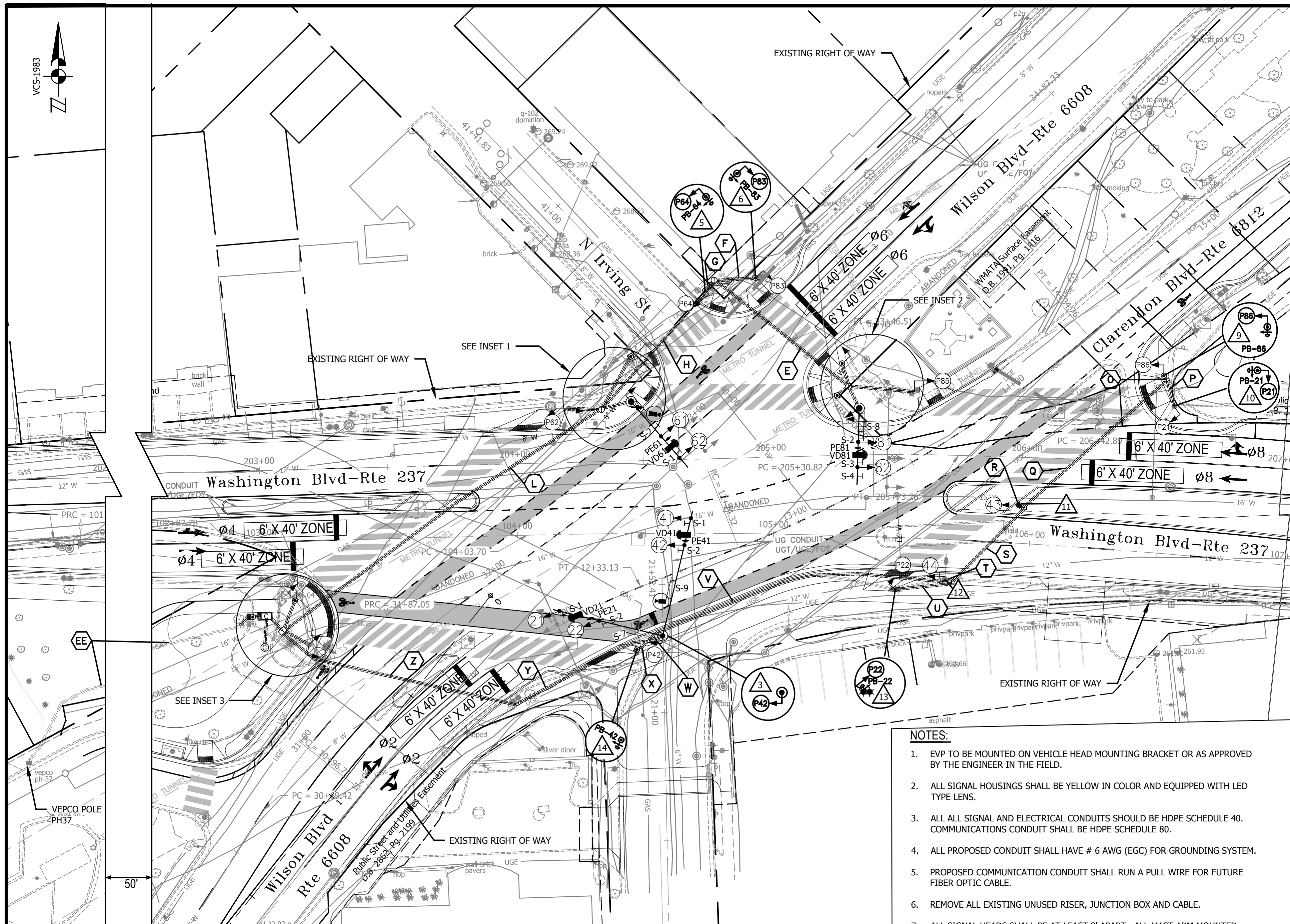
Revisions Date

Project Name and Location
Clarendon Circle Improvements
 SIGNAL PLAN - GENERAL NOTES
 Wilson Blvd. at Washington Blvd.
 314-43513.DWG/S.16.0000

Designed: ASM
 Drawn: ASM
 Checked: SM
 Miss Utility Transmittal #: 5057

Filename: 19_Signal.dwg
 Path: M:\projects\201111192_Arlington Multimodal\Task 3 - Clarendon Circle\CAD\DWG\3d\ClarendonPlan
 Plotted: May 27, 2016
 Plotted by: icathcart

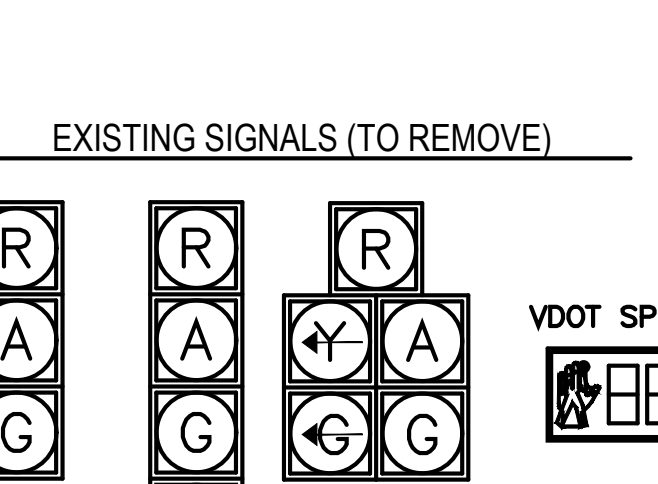
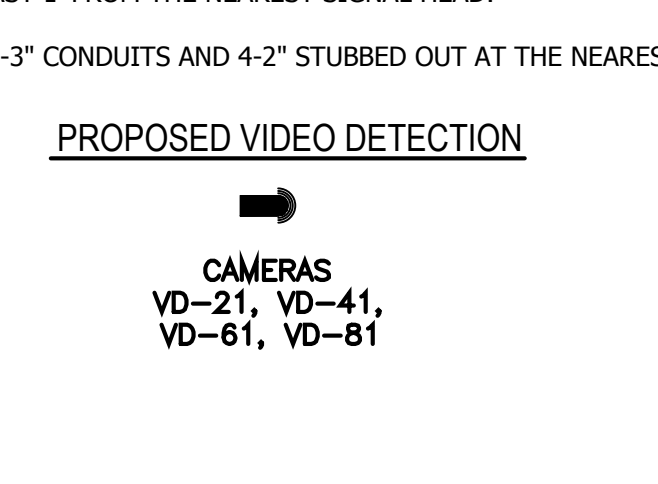
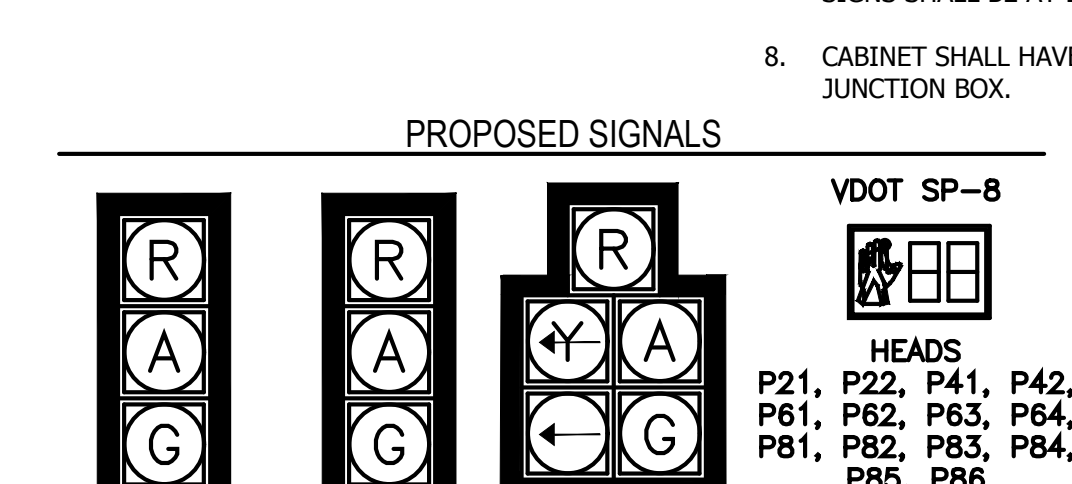
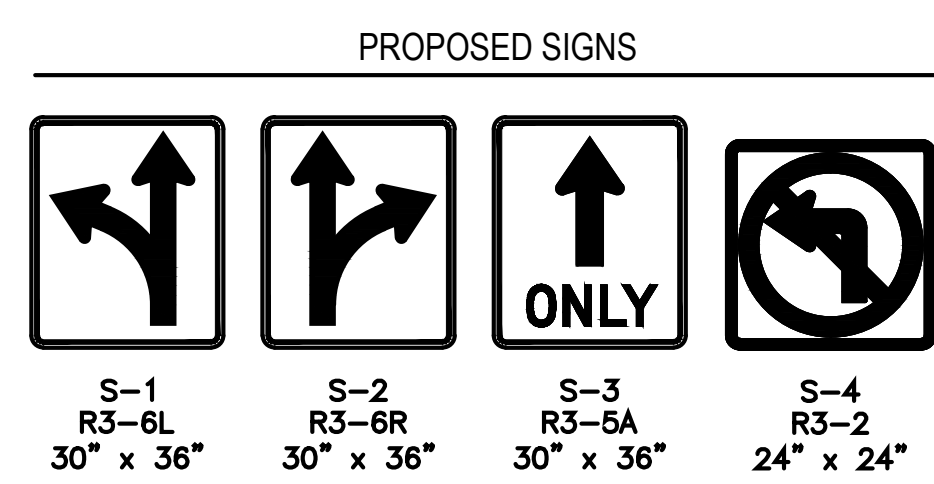
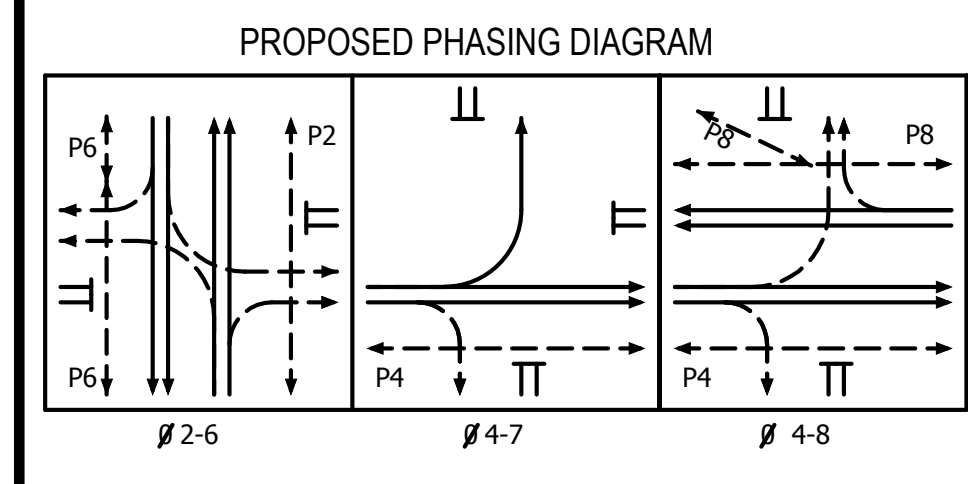
Scale: Hor.: 1"=25'



CABLE & CONDUIT RUNS

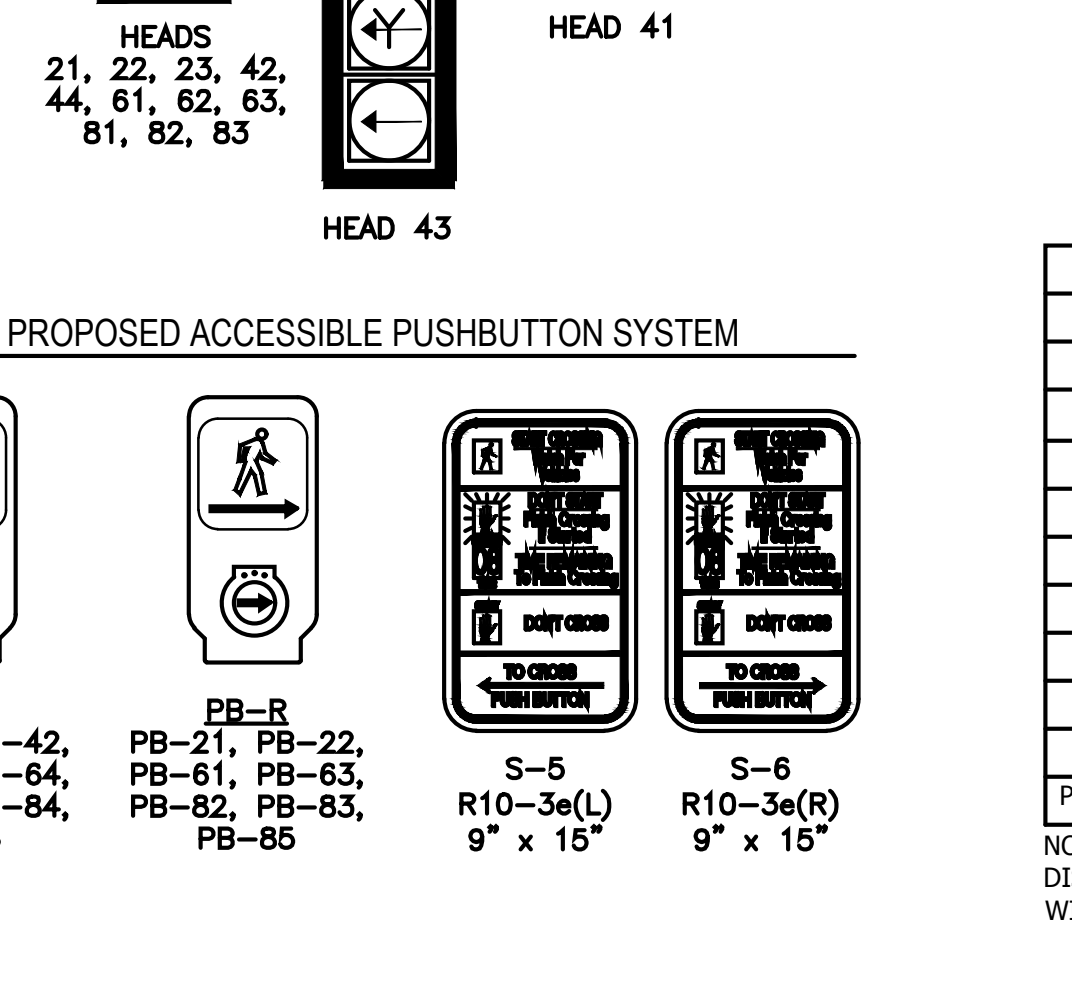
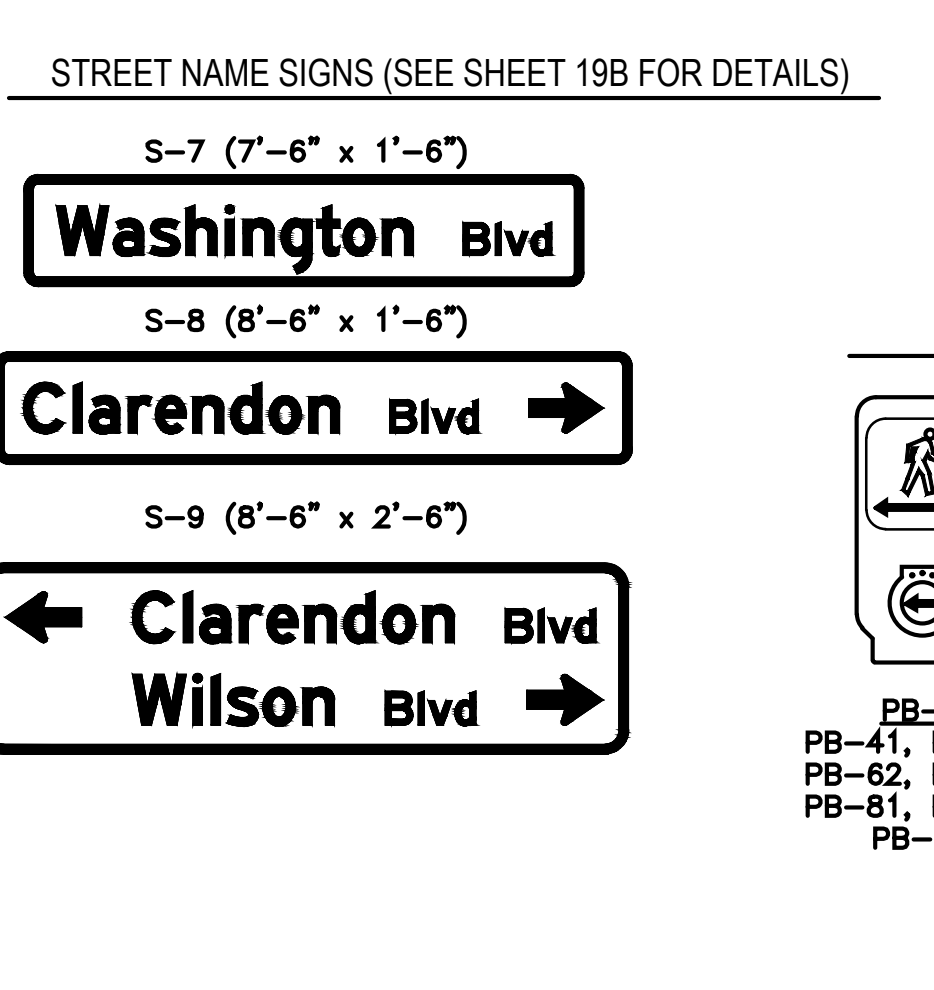
A 1-3" CONDUIT (TRENCH) 2-14/7C SIGNAL HEADS 23, 81/82 1-14/7C PEDESTRIAN SIGNALS P82 1-14/4C CABLE FOR LUMINAIRE (SL-6)	L 1-4" (DIRECT BORING) 8-14/2C PEDESTRIAN SIGNALS PB62, PB63, PB64, PB81, PB82, PB83, PB84, PB85 2-14/4C CABLE FOR LUMINAIRE (SL-4, SL-6)	X 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN PUSH BUTTON PB42
B 1-3" CONDUIT (TRENCH) 1-14/5C CABLE FOR VIDEO DETECTION VD81 1-14/5C OPTICOM GTT EVP PE81	O 1-2" CONDUIT (TRENCH) 1-14/7C PEDESTRIAN SIGNALS P86	Y 1-3" CONDUIT (TRENCH) 4-14/7C SIGNAL HEADS 21/22, 41/42, 43, 44 4-14/7C PEDESTRIAN SIGNALS P21, P22, PB86, P42 1-14/4C CABLE FOR LUMINAIRE (SL-5)
C 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN PUSH BUTTON PB82	P 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN SIGNALS P21 1-14/2C PEDESTRIAN PUSH BUTTON PB21	Z 1-4" CONDUIT (DIRECT BORING) 1-14/7C SIGNAL HEADS 21/22, 41/42, 43, 44 4-14/7C PEDESTRIAN SIGNALS P21, P22, PB86, P42 1-14/4C CABLE FOR LUMINAIRE (SL-5)
D 1-2" CONDUIT (TRENCH) 1-14/7C PEDESTRIAN SIGNALS P84 1-14/7C PEDESTRIAN PUSH BUTTON PB84	Q 1-4" CONDUIT (DIRECT BORING) 1-14/7C PEDESTRIAN SIGNALS P21, P86 2-14/2C PEDESTRIAN PUSH BUTTON PB86, PB21	AA 1-2" CONDUIT (TRENCH) 1-14/7C SIGNAL HEADS 63 1-14/2C PEDESTRIAN SIGNALS P41 1-14/2C PEDESTRIAN PUSH BUTTON PB41
E 1-4" (DIRECT BORING) 3-14/2C PEDESTRIAN PUSH BUTTON PB82, PB85, PB84 1-14/5C CABLE FOR VIDEO DETECTION VD81 1-14/5C OPTICOM GTT EVP PE81	R 1-2" CONDUIT (TRENCH) 1-14/7C SIGNAL HEADS 43	BB 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN SIGNALS P61 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN PUSH BUTTON PB61
F 1-2" CONDUIT (TRENCH) 1-14/7C PEDESTRIAN SIGNALS P83 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN PUSH BUTTON PB83	S 1-4" CONDUIT (DIRECT BORING) SPARE	CC 1-3" CONDUIT (TRENCH) 10-14/7C SIGNAL HEADS 21/22, 23, 41/42, 43, 44, 61/62, 63, 81/82, 83 14-14/7C PEDESTRIAN SIGNALS P21, P22, P41, P42, P61, P62, P63, P64, P81, P82, P83, P84, P85, P86 3-14/4C CABLE FOR LUMINAIRE (SL-4, SL-5, SL-6)
G 1-2" CONDUIT (TRENCH) 1-14/7C PEDESTRIAN SIGNALS P64 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN PUSH BUTTON PB64	T 1-2" CONDUIT (TRENCH) 1-14/7C SIGNAL HEADS 44 STREET LIGHTING CABLE - SEE SHEET 21	DD 1-3" CONDUIT (TRENCH) 1-14/6/5C ELECTRICAL SERVICE CABLE
H 1-4" (DIRECT BORING) 5-14/2C PEDESTRIAN PUSH BUTTONS PB64, PB82, PB83, PB84, PB85 1-14/5C CABLE FOR VIDEO DETECTION VD81 1-14/5C OPTICOM GTT EVP PE81	U 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN SIGNALS P22 1-14/2C PEDESTRIAN PUSH BUTTON PB22	EE 1-3" CONDUIT (TRENCH) EMPTY CONDUIT FOR DVP TO INSTALL SERVICE CABLES
I 1-2" (DIRECT BORING) STREET LIGHTING CABLE - SEE SHEET 21	V 1-2" CONDUIT (TRENCH) STREET LIGHTING CABLE - SEE SHEET 21	FF 1-3" CONDUIT (TRENCH) 1-19/24 PAIR COMMUNICATIONS CABLE
J 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN SIGNALS P63, P81 1-14/4C CABLE FOR LUMINAIRE (SL-4)	W 1-3" CONDUIT (TRENCH) 2-14/7C SIGNAL HEADS 21/22, 41/42 1-14/7C PEDESTRIAN SIGNALS P42 1-14/4C CABLE FOR LUMINAIRE (SL-5)	
K 1-2" CONDUIT (TRENCH) 1-14/2C PEDESTRIAN SIGNALS P62, P81, P82, P83, P84, P85, P86 1-2" CONDUIT (TRENCH) STREET LIGHTING CABLE - SEE SHEET 21		

- NOTES:**
- EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD.
 - ALL SIGNAL HOUSINGS SHALL BE YELLOW IN COLOR AND EQUIPPED WITH LED TYPE LENS.
 - ALL SIGNAL AND ELECTRICAL CONDUITS SHOULD BE HDPE SCHEDULE 40. COMMUNICATIONS CONDUIT SHALL BE HDPE SCHEDULE 80.
 - ALL PROPOSED CONDUIT SHALL HAVE # 6 AWG (EGC) FOR GROUNDING SYSTEM.
 - PROPOSED COMMUNICATIONS CONDUIT SHALL RUN A PULL WIRE FOR FUTURE FIBER OPTIC CABLE.
 - REMOVE ALL EXISTING UNUSED RISER, JUNCTION BOX AND CABLE.
 - ALL SIGNAL HEADS SHALL BE AT LEAST 8' APART. ALL MAST ARM MOUNTED SIGNS SHALL BE AT LEAST 1' FROM THE NEAREST SIGNAL HEAD.
 - CABINET SHALL HAVE 4-3" CONDUITS AND 4-2" STUBBED OUT AT THE NEAREST JUNCTION BOX.



LEGEND

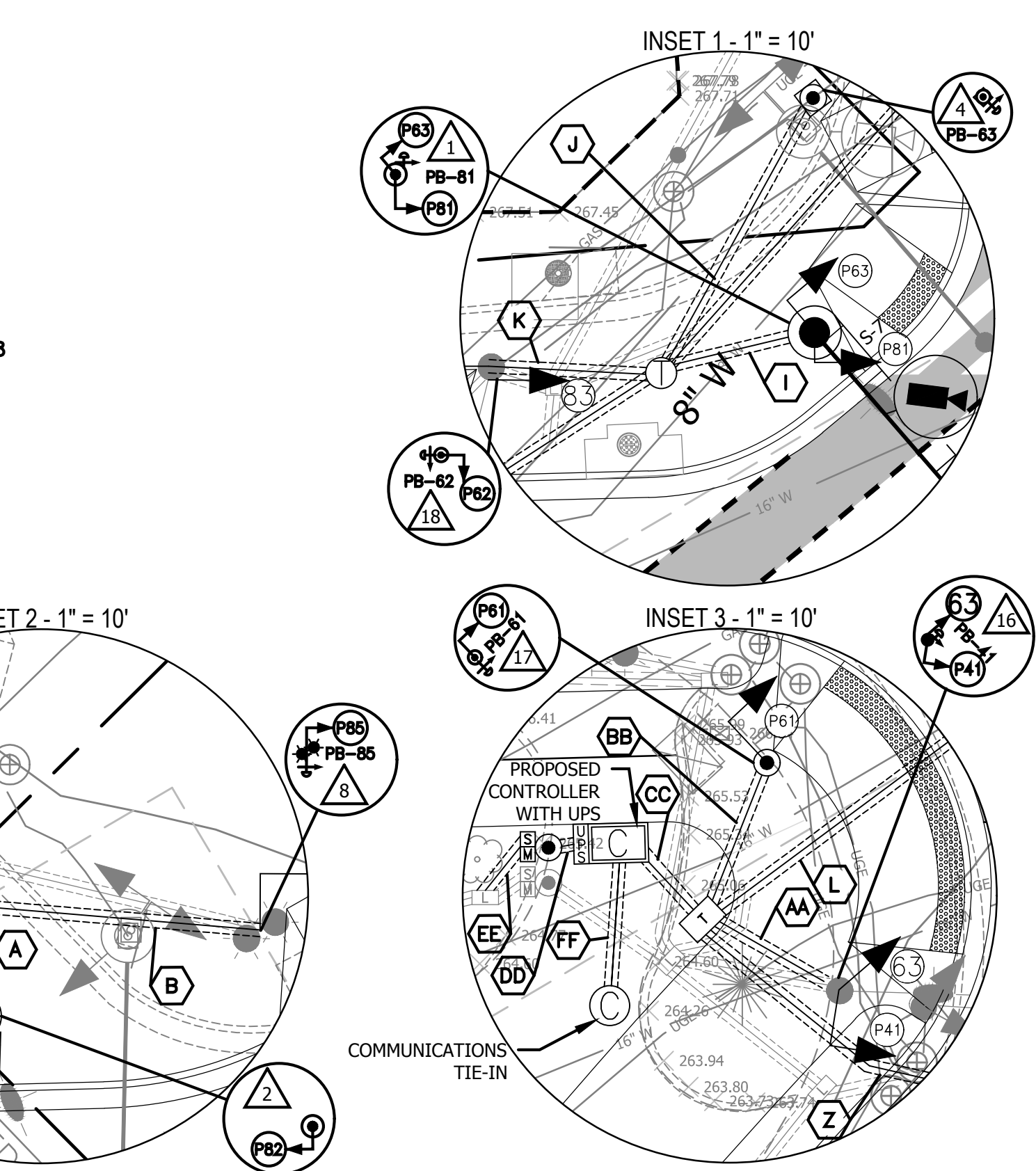
	EXISTING	PROPOSED
CONTROL CABINET	[Symbol]	[Symbol]
UNINTERRUPTIBLE POWER SUPPLY (UPS)	[Symbol]	[Symbol]
SIGNAL JUNCTION BOX (TS4-5)	[Symbol]	[Symbol]
SIGNAL JUNCTION BOX (TS4-6)	[Symbol]	[Symbol]
COMM. JUNCTION BOX	[Symbol]	[Symbol]
SERVICE JUNCTION BOX	[Symbol]	[Symbol]
MAST ARM POLE & FOUNDATION	[Symbol]	[Symbol]
PEDESTAL POLE & FOUNDATION	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON PEDESTAL	[Symbol]	[Symbol]
CCTV	[Symbol]	[Symbol]
PRE-EMPTION	[Symbol]	[Symbol]
VIDEO DETECTOR	[Symbol]	[Symbol]
SERVICE METER	[Symbol]	[Symbol]
CONDUIT RUN	[Symbol]	[Symbol]



COLOR SEQUENCE CHART

PHASE	2	4	6	7	8	2+6	4+7	4+8	
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	FLASH
21, 22, 23	G								Y
41, 43	G	G							R
42, 44	G	G							R
61, 62, 63		G							Y
81, 82, 83				G					R
P21, P22	W					W			BLANK
P41, P42	W		W			W			BLANK
P61, P62, P63, P64			W			W			BLANK
P81, P82, P83, P84, P85, P86				W		W			BLANK

NOTE: BLANK SPACES DENOTE RED INDICATIONS. WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL SERVICED, OTHERWISE "DON'T WALK" WILL BE DISPLAYED.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
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2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

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Seal

Approvals	Date
DESIGN TEAM SUPERVISOR	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	
PROJECT MANAGER	
Revisions	Date

Project Name and Location
Clarendon Circle Improvements
SIGNAL PLAN
Wilson Blvd. at Washington Blvd.

Designed: ASM
Drawn: ASM
Checked: SM
Miss Utility Transmittal #: 5057
Filename: 19_Signal.dwg
Path: 3 - Clarendon Circle/CADD/CW36/ClarendonPlan
Plotted: May 27, 2016
Plotted by: icathcart
Scale: Hor.: 1"=25'



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
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DESIGN TEAM SUPERVISOR

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WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

Project Name and Location
Clarendon Circle Improvements

SIGNAL PLAN
Wilson Blvd. at Washington Blvd.

314-43513.DWG, S16.0000

Designed: ASM
Drawn: ASM
Checked: SM
Miss Utility Transmittal #: 5057

Filename: 19_Signal.dwg
Path: M:\projects\201111192_Arlington Multimodal\Task
3 - Clarendon Circle\CADD\Civil3d\ClarendonPlan
Plotted: May 27, 2016
Plotted by: icathcart

Scale:

Sheet **19B**

Initial Timing Chart

PHASE	1	2	3	4	5	6	7	8
MOVEMENT		NB Wilson Blvd LTR		EB Washington Blvd TR		SB Wilson Blvd LTR	EB Washington Blvd LT	WB Washington Blvd TR
PHASE ON		X		X		X	X	X
PHASE OFF	X		X		X			
INTERVAL	PHASE TIMINGS							
MIN GR		0		0		0	0	0
PASSAGE		0.0		0.0		0.0	0.0	0.0
YELLOW		0.0		0.0		0.0	0.0	0.0
RED		0.0		0.0		0.0	0.0	0.0
MAX 1		0		0		0	0	0
MAX 2		0.0		0.0		0.0	0.0	0.0
MIN GAP		0.0		0.0		0.0	0.0	0.0
TIME BEFORE REDUCTION		0.0		0.0		0.0	0.0	0.0
TIME TO REDUCE		0.0		0.0		0.0	0.0	0.0
PED WALK		0.0		0.0		0.0	0.0	0.0
PED CLEARANCE		0.0		0.0		0.0	0.0	0.0
MODE		MIN RECALL		NON-LOCK		MIN RECALL	NON-LOCK	NON-LOCK

Clearance Interval Chart

PHASES		1	2	2 O.L.	3	4	5	6	6 O.L.	7	8
CALCULATED MINIMUM	YELLOW										
	RED										
CONTROLLER INPUTS	YELLOW										
	RED										

O.L. denotes Overlap
NOTE: The clearance intervals shown on the clearance interval chart are the calculated minimum intervals using MDOT Memorandum TE-306. The controller inputs are based on local or regional practices.

STREET LIGHTING POLE SCHEDULE

NO.	TYPE	LUM. WATTAGE	LUM. M.A.	POLE HEIGHT	CIRCUIT NUMBER	BASELINE, STATION, OFFSET	NOTE
31	TWIN LUMINAIRE CARLYLE POLE	57	-	16'	1	WB WASHINGTON, 207+54.7, 22.1' LT.	-
32	OVERHEAD COBRA LED	180	6'	32'	3	EB WASHINGTON, 107+73.2, 14.6' RT.	-

NOTE:
BLACK CABLE FOR CIRCUIT 1
RED CABLE FOR CIRCUIT 3

PANELBOARD SCHEDULE

PANEL:							
LOAD DESCRIPTION	LOAD AMPS A Ø	BRKR AMPS	WIRE	CKT NO.	CKT NO.	WIRE	LOAD AMPS B Ø
CONTROL WIRING							
CARLYLE POLE No.: 8,19,22,23,25,26,27	3.33						
OVERHEAD COBRA LED POLE No.: 10,12,32	4.5	20	#6	1	2	-	SPARE
CARLYLE POLE No.: 13,20,21,24,28,29,30,31	3.80						
OVERHEAD COBRA LED POLE No.: 16,18	3.00	20	#6	3	4	-	SPARE
TOTAL AMPERAGE (ALL CIRCUIT)	14.63						

BREAKER MINIMUM INTERRUPTING CAPACITY XX AMPS SYMM
MAIN: 125A MAIN CIRCUIT BREAKER
VOLTAGE: 120/240, SINGLE PHASE 3 WIRE
MOUNTING: BASE MOUNTED CABINET
LUMINAIRE OPERATING VOLTAGE = 120V
NOTE: BREAKERS SIZED FOR FUTURE EXPANSION OF STREET LIGHTING ALONG WASHINGTON BLVD WEST OF PROJECT LIMITS, SEE TOP LEFT (THIS SHEET) FOR DETAILS

LIGHTING NOTES:

A. POLES AND FOUNDATIONS

- THE COUNTY SHALL STAKE NEW POLE LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT MR. ALEXANDER TSYBIN AT 703-228-0652 TO SCHEDULE.
- THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN EXISTING RIGHT-OF-WAY.
- LIGHT POLE FOUNDATION SHALL BE FLUSH WITH FINISHED GRADE.
- FURNISH AND INSTALL CARLYLE LIGHTING POLE & FOUNDATION IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS LT-7 AND LT-8. CARLYLE STREETLIGHT SHALL BE LED TYPE - (RELUME UAE(XRE LED)).
- COBRA LIGHTING SHALL BE LED TYPE - (LUMEC GPLM-180W98LED4K-LE3-120-ARRA-BLCDMG-016-PH8-USA-WB7-NP WITH DYNADIMMER).
- FURNISH AND INSTALL COBRA HEAD STREET LIGHTING POLE AND FOUNDATION IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS LT-10 AND DETAIL SHOWN ON SHEET LIGHTING SHEET 21B.

C. CONDUIT, CONDUCTORS, JUNCTION BOX AND ELECTRICAL

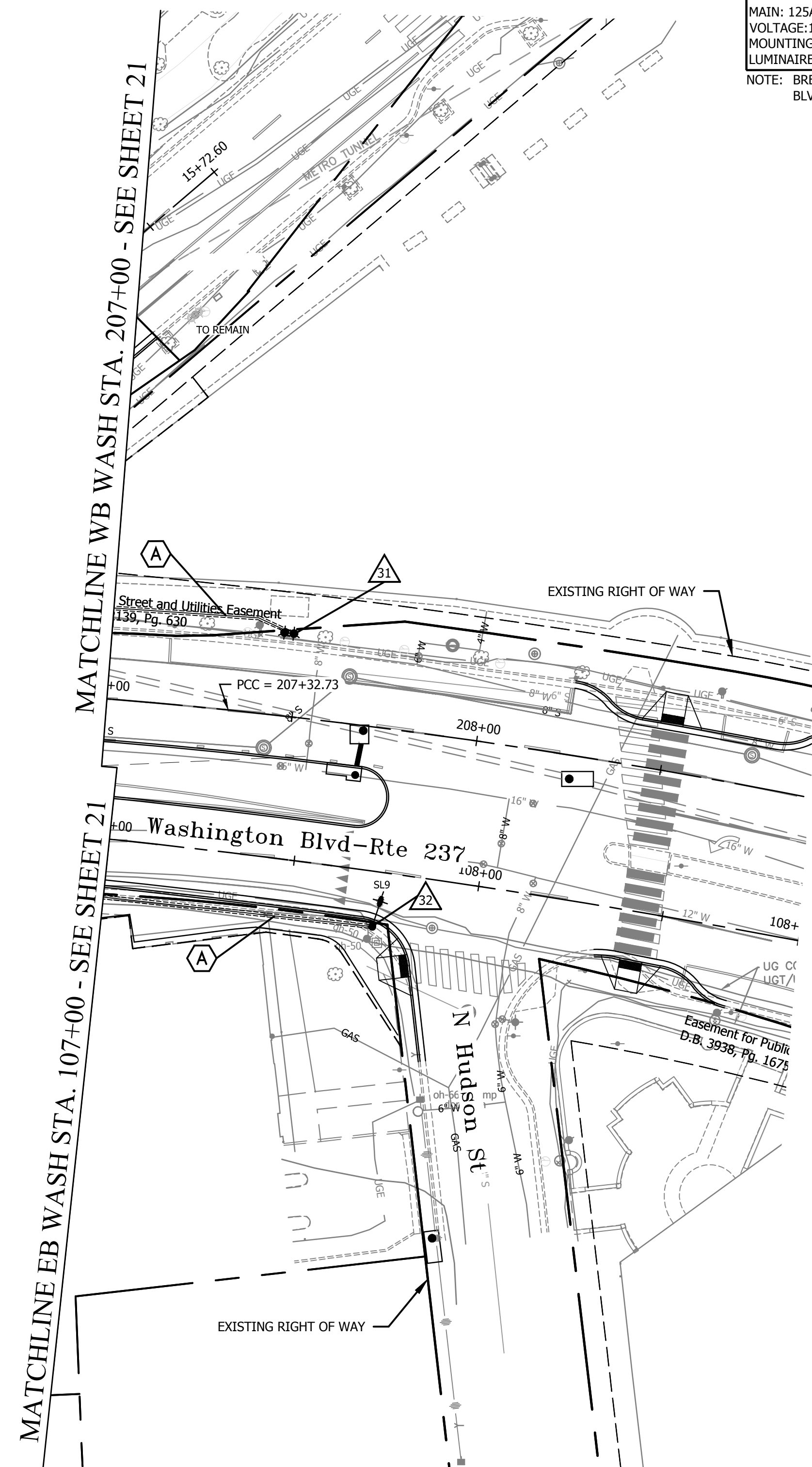
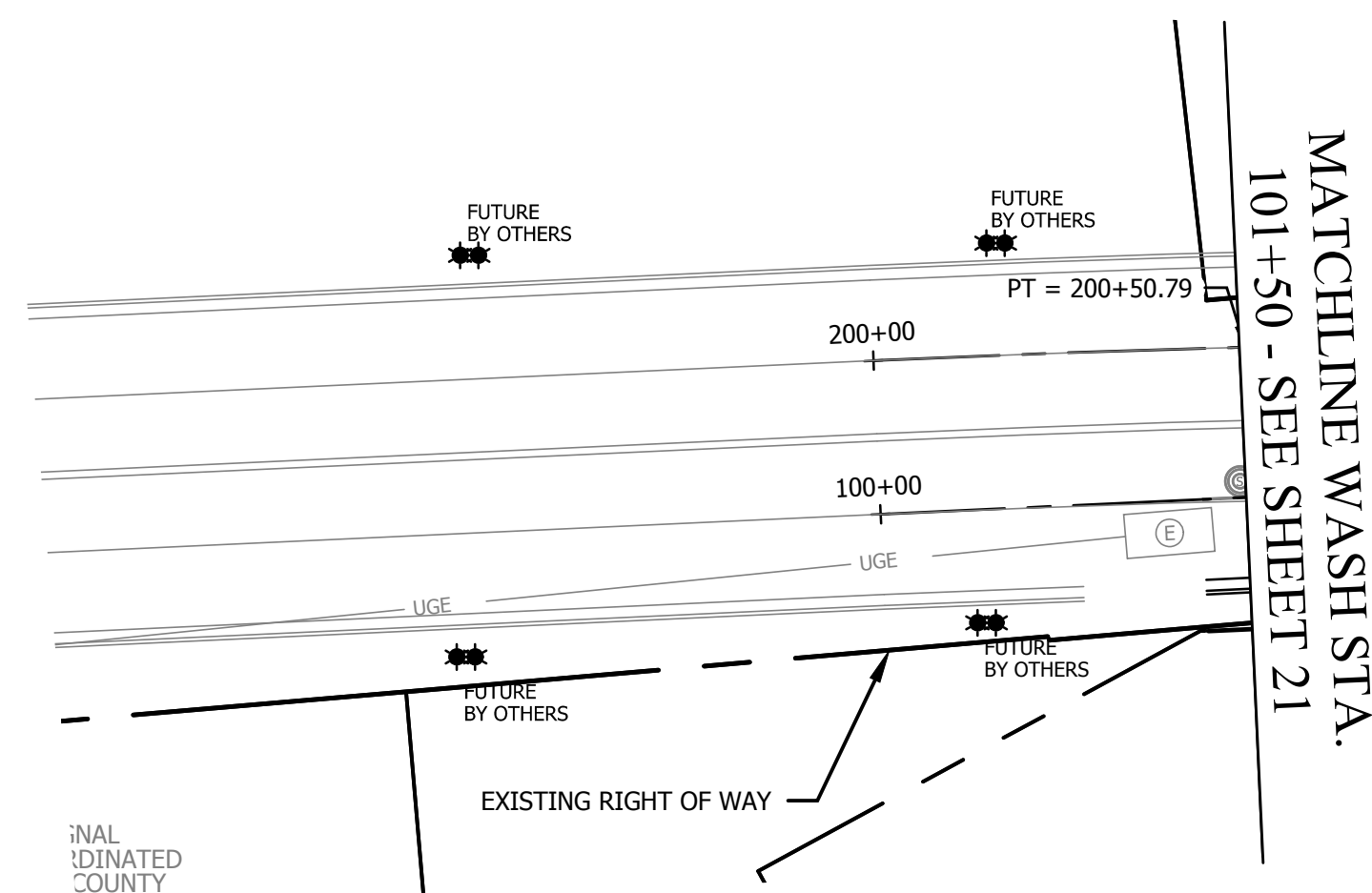
- ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS LT-17. NEW JUNCTION BOX COVERS SHALL HAVE THE LETTERS "STREETLIGHT" CAST IN THE TOP SURFACE DEPRESSION FOR ALL STREET LIGHTING RELATED JUNCTION BOXES CONTAINING CABLE WITH LESS THAN 50 VOLTS. STREETLIGHT RELATED JUNCTION BOXES CONTAINING CABLE MORE THAN 50 VOLTS SHALL HAVE THE LETTERS "STREETLIGHT/ELEC".
- METER PEDESTAL SHALL MATCH COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
- METER PEDESTAL SHALL BE INSTALLED WITH TORK MODEL 2101 PHOTO ELECTRIC SWITCH MOUNTED TO EXTERIOR OF THE METER ENCLOSURE.
- ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
- CONTRACTOR SHALL INSTALL THREE RUNS OF #10 AWG BETWEEN LUMINAIRE AND LIGHT POLE BASE. ONE RUN SHALL INCLUDE GREEN INSULATION AND SHALL BE CONNECTED TO THE GROUNDING LUG OR GROUND ROD TO PROVIDE GROUNDING FOR THE LUMINAIRE.
- ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED.
- CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES.
- ALL CONDUITS PASSING BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND AVOIDING ALL UNDERGROUND UTILITIES DURING CONSTRUCTION ACTIVITIES.
- ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW CABLES.
- EQUIPMENT GROUND CONDUCTOR SHALL BE INSULATED STRANDED.
- CABLES SHALL BE SPICED IN THE LIGHTING POLE BASE OR JUNCTION BOX. AT THE POLE BASE, PHASE WIRES SHALL BE FUSED, NEUTRAL WIRES SHALL BE UN-FUSED. SPICES IN THE JUNCTION BOX SHALL NOT BE FUSED. SPICE KITS SHALL BE INCIDENTAL TO THE CONDUCTORS THEY SPICE.
- CONDUIT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS TS4-7. CONDUIT SHALL BE PVC SCHEDULE 40.

D. DEMOLITION/SALVAGE

- ALL EXISTING LIGHTING EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.

E. GENERAL LIGHTING NOTES

- THE PROPOSED ROADWAY LIGHTING SHALL BE 120/240V WITH AN OPERATING VOLTAGE OF 120V.
- THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN CASE OF DAMAGE TO AN EXISTING FACILITY.
- THE CONTRACTOR SHALL REPLACE ALL CONCRETE GUTTERS, FLUMES, UNDERDRAINS AND OTHER CONCRETE STRUCTURES DAMAGED OR REMOVED DURING THE INSTALLATION OF FOUNDATIONS AND CONDUIT.
- ALL TRENCHING MUST BE BACKFILLED AND RESTORED TO ITS ORIGINAL CONDITION ON THE SAME WORKING DAY ON WHICH IT WAS OPENED. AREAS WHICH ARE NOT RESEEDED, MULCHED OR SODDED MUST BE COVERED TO PREVENT EROSION. ALL SOIL NOT USED FOR BACKFILL MUST BE REMOVED ON THE SAME WORKING DAY.
- ALL SOIL REMOVED FOR HANDBOXES, FOUNDATIONS, ETC. MUST BE COVERED TO PREVENT EROSION. SOIL NOT USED FOR BACKFILL MUST BE DISPOSED OF AS APPROVED BY THE ENGINEER ON THE SAME WORKING DAY THE BACKFILL IS COMPLETED.



CABLE & CONDUIT RUNS

- A** 1-2" CONDUIT (TRENCHED)
3-#6/3C COPPER ELECTRICAL SERVICE CABLE
1-1/4" #6 AWG GROUND WIRE
- B** 1-2" CONDUIT (DIRECT BORED)
3-#6/3C COPPER ELECTRICAL SERVICE CABLE
1-1/4" #6 AWG GROUND WIRE
- C** 1-2" CONDUIT (DIRECT BORED)
3-#6/3C COPPER ELECTRICAL SERVICE CABLE
1-1/4" #6 AWG GROUND WIRE
- D** 2-4" CONDUIT (DIRECT BORED)
TRAFFIC SIGNAL CABLE - SEE SHEET 19
- E** 1-2" CONDUIT (TRENCHED)
3-#6/3C COPPER ELECTRICAL SERVICE CABLE
1-1/4" #6 AWG GROUND WIRE
- F** 1-3" CONDUIT (TRENCHED)
EMPTY CONDUIT FOR DVP TO INSTALL SERVICE CABLE
- G** 1-2" CONDUIT (TRENCHED)
3-#6/3C COPPER ELECTRICAL SERVICE CABLE
1-1/4" #6 AWG GROUND WIRE
- H** 1-3" CONDUIT (TRENCHED)
TRAFFIC SIGNAL CABLE - SEE SHEET 19

LEGEND	EXISTING	PROPOSED
CONTROL CABINET	[Symbol]	[Symbol]
UNINTERRUPTIBLE POWER SUPPLY (UPS)	[Symbol]	[Symbol]
LIGHTING JUNCTION BOX	[Symbol]	[Symbol]
COMM. JUNCTION BOX	[Symbol]	[Symbol]
SERVICE JUNCTION BOX	[Symbol]	[Symbol]
SERVICE METER	[Symbol]	[Symbol]
CONDUIT RUN	[Symbol]	[Symbol]
CARLYLE LIGHTING POLE & FOUNDATION	[Symbol]	[Symbol]
CARLYLE LIGHTING POLE & FOUNDATION (DOUBLE LUMINAIRES)	[Symbol]	[Symbol]
OVERHEAD LIGHT	[Symbol]	[Symbol]



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Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Sheet **21A**

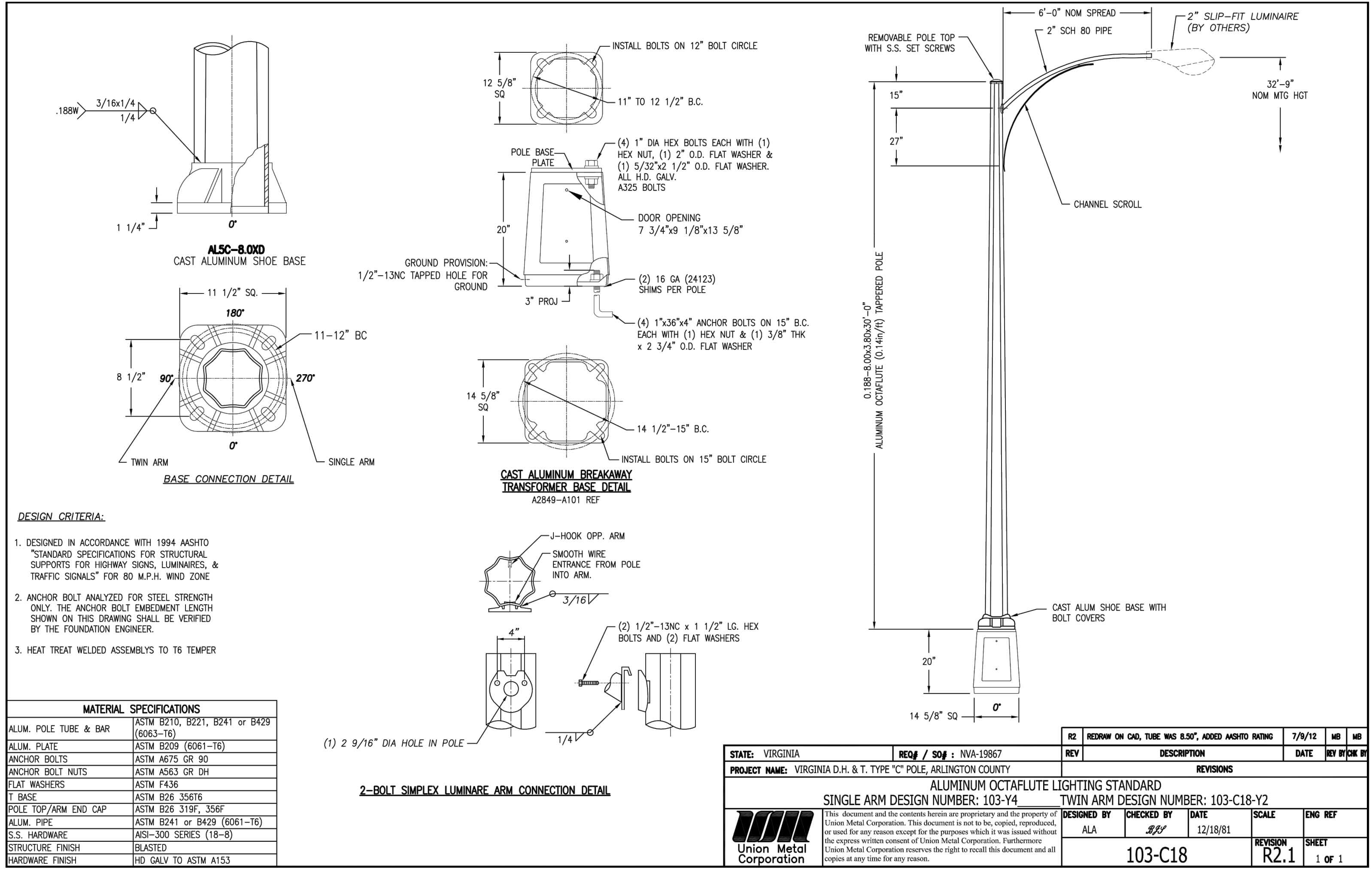
Clarendon Circle Improvements

Project Name and Location
Clarendon Circle Improvements
STREET LIGHTING PLAN
Wilson Blvd. at Washington Blvd.
314-43513.D00S.S16.0000

Designed: ASM
Drawn: RB
Checked: SM
Miss Utility Transmittal #: 5057

Filename: 21_Street Lighting.dwg
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3 - Clarendon Circle\CADD\Civil\3d\ClarendonPlan
Plotted: May 26, 2016
Plotted by: icathcart

Scale: Hor.: 1"=25' As Noted
Vert.: 1"=5'



Rain tight 2000W(T) 1800VA
120VAC, 50/60 Hz

Enclosure: Hoffman Enclosure
Enclosure Type 3R
Cat. Number A12R126HCR

Contact: Siemens 42BF15AF

HOA Switch: General Electric CR104PSG34B91A

Figure 1: Sample configuration of central streetlight control.

11.09: CIRCUIT BREAKER
The circuit breakers used should be based on the calculated load of the street light circuit

11.10: DISCONNECT SWITCH
The disconnect switch shall be a Siemens W0816ML1125CU with 125 Amp.

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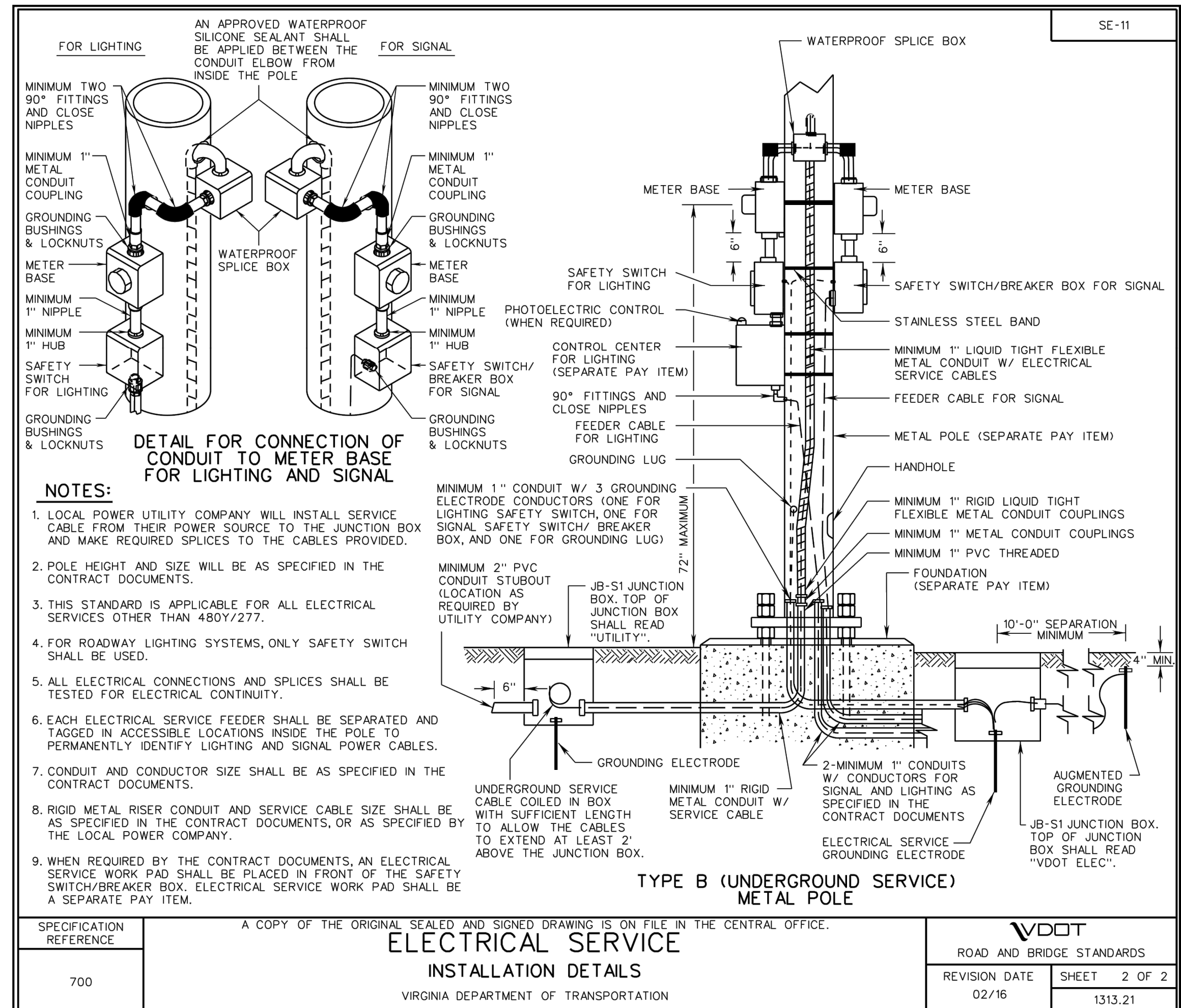
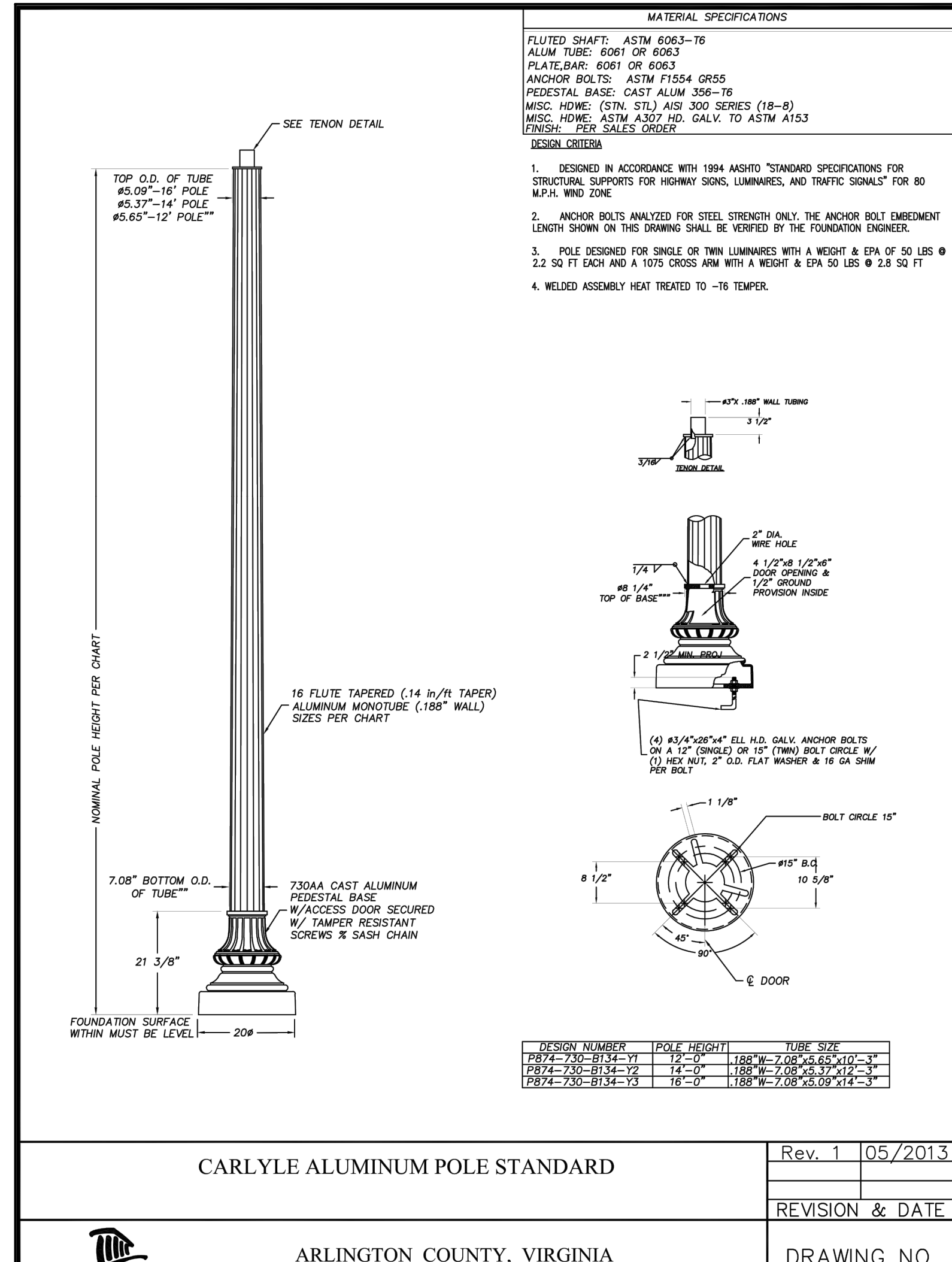
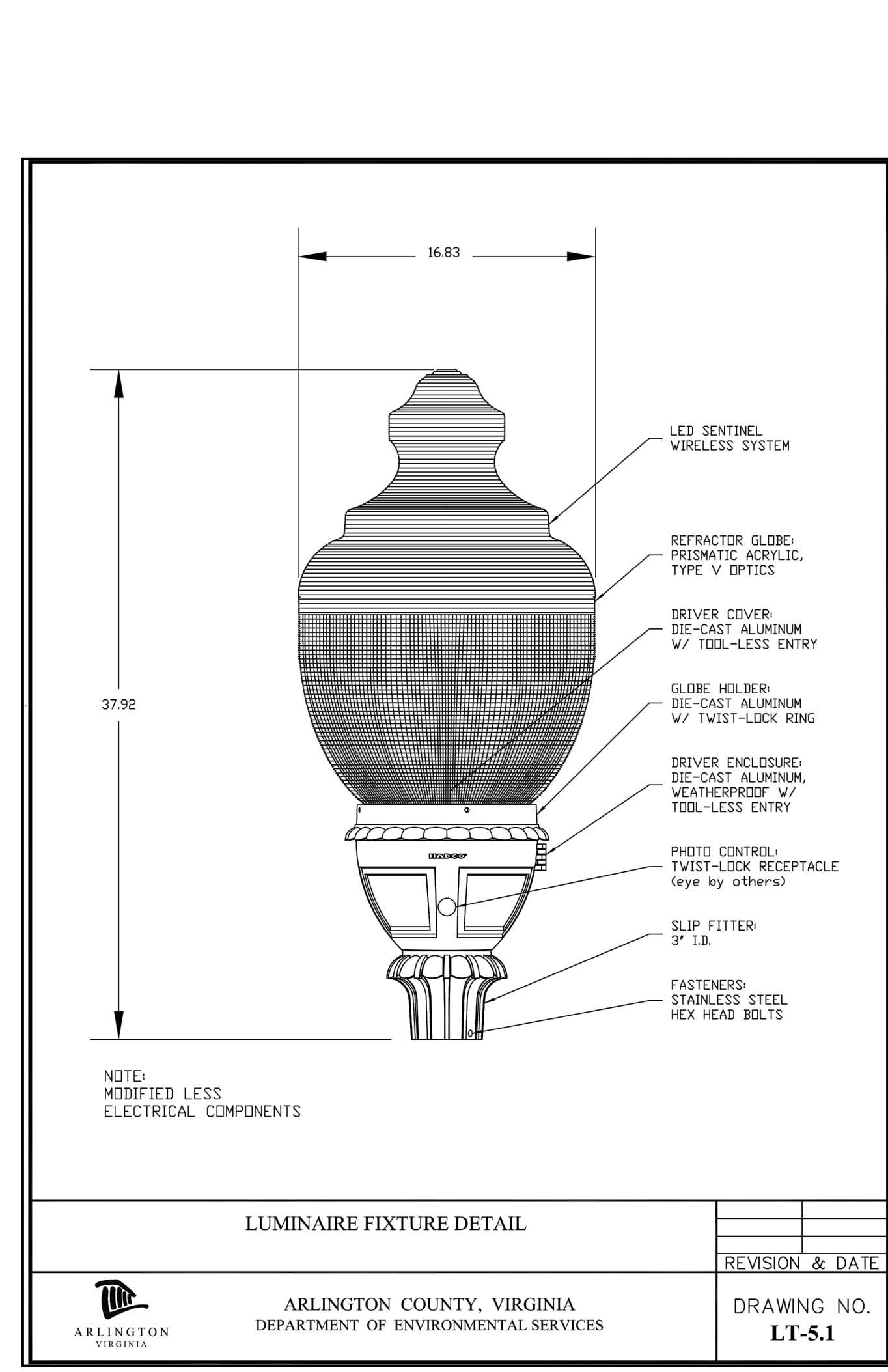
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TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

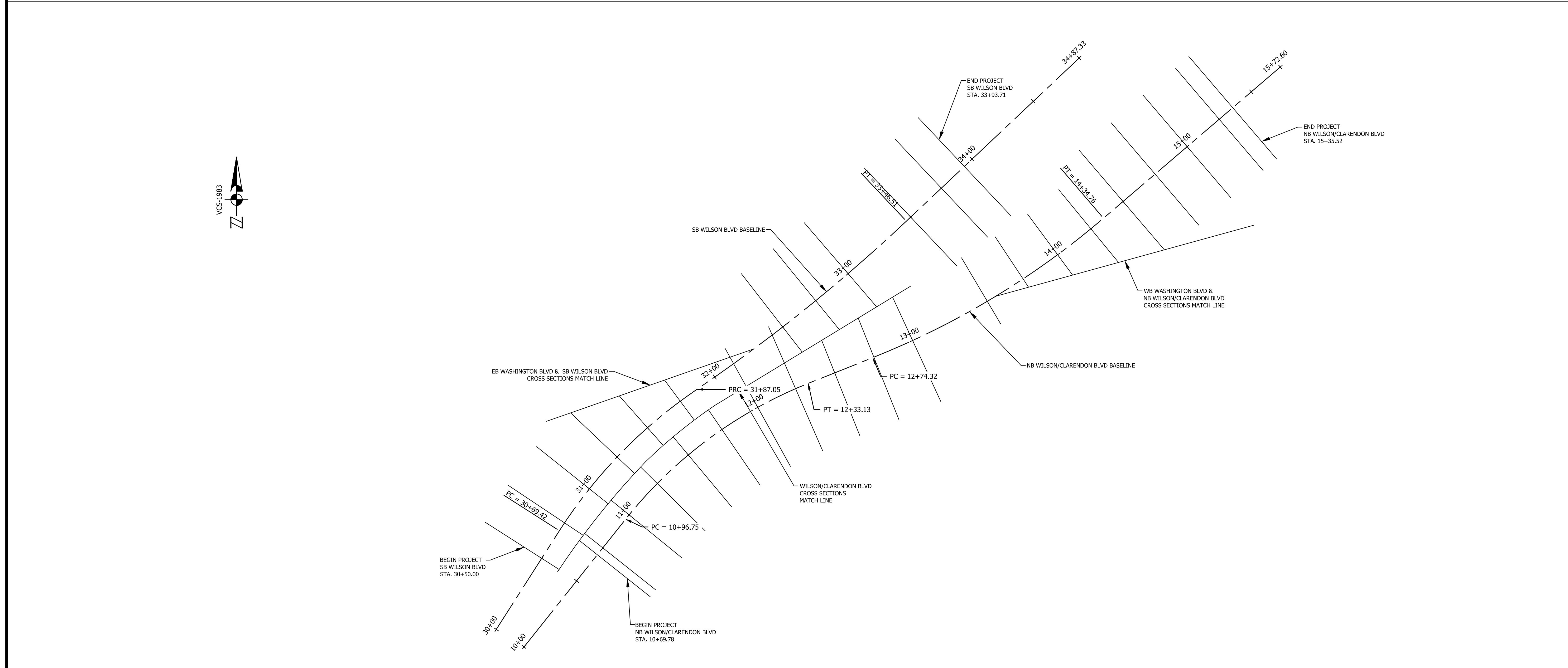
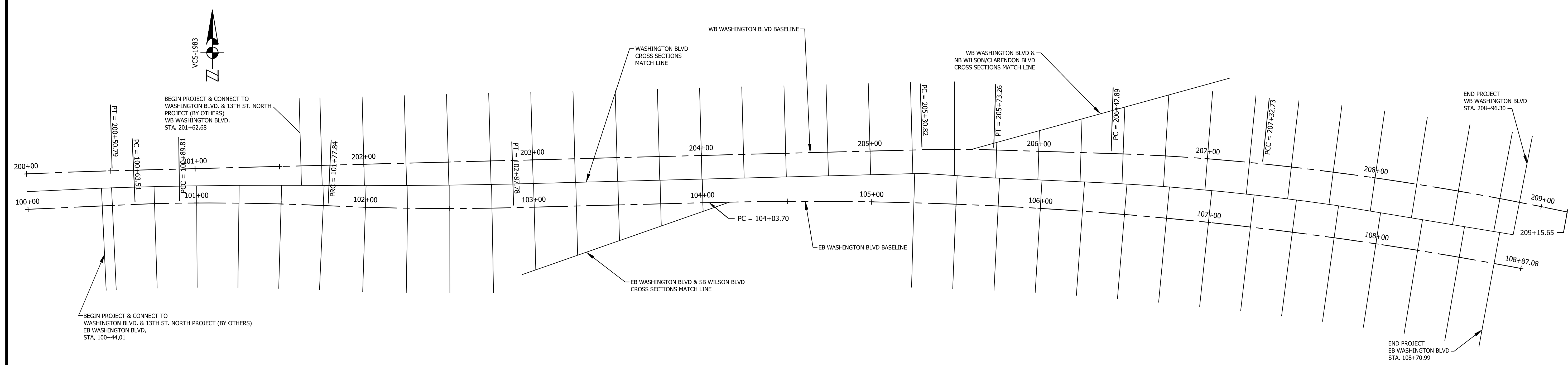
Project Name and Location
Clarendon Circle Improvements
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 Wilson Blvd. at Washington Blvd.

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

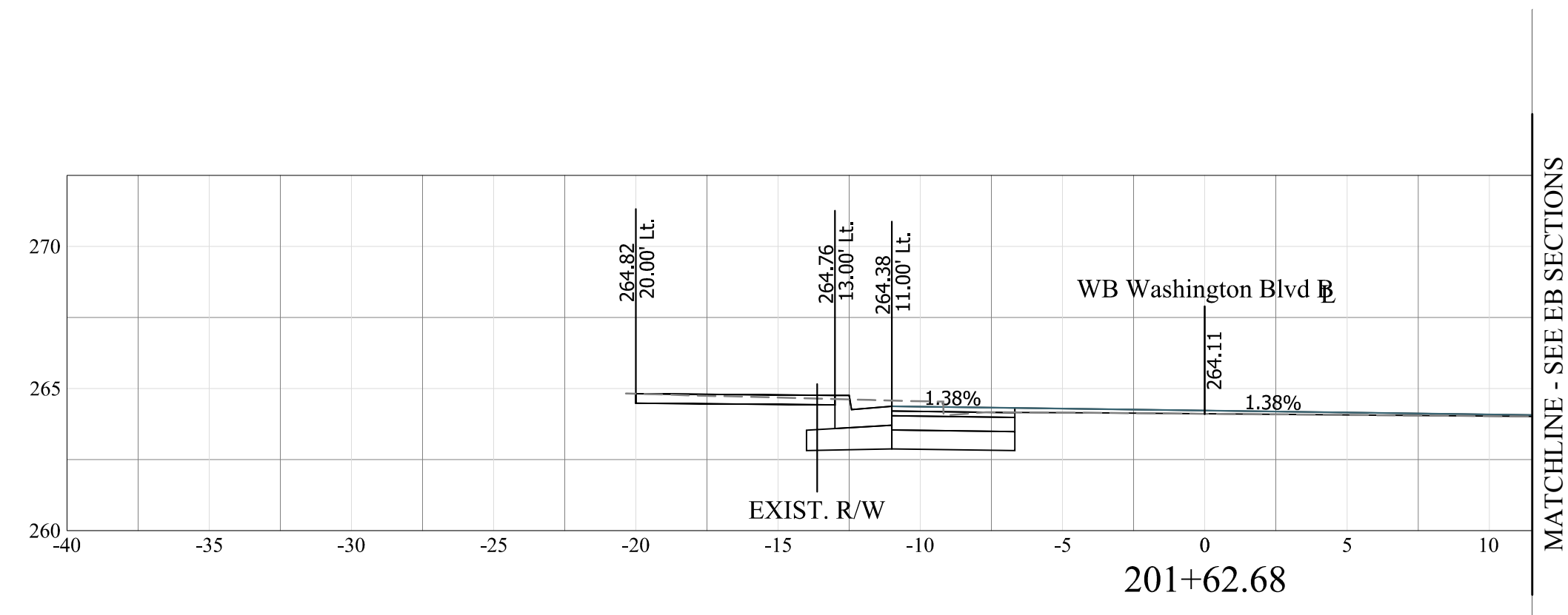
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 Plotted by: marnone

Scale: Hor.: 1"=30'

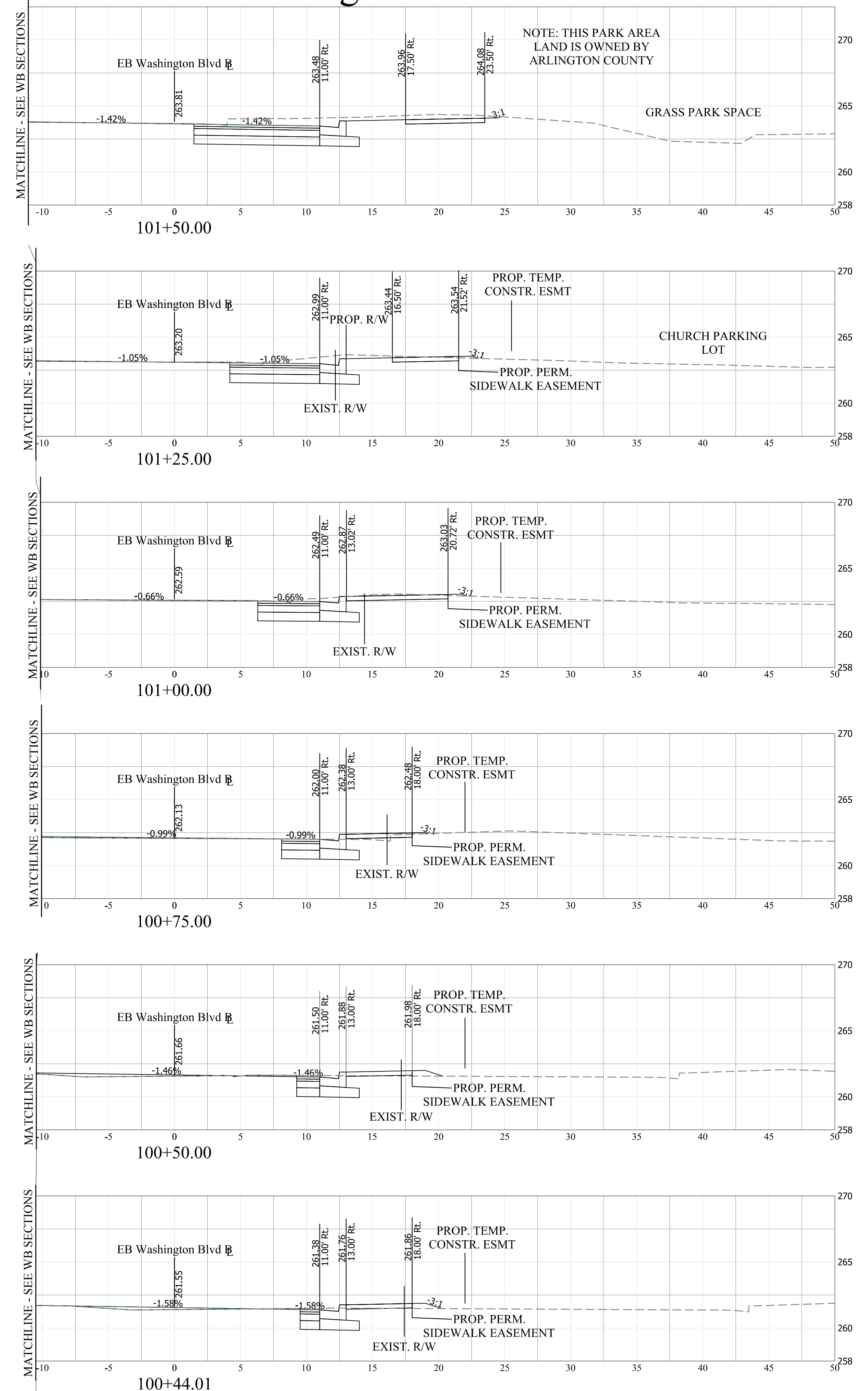
Sheet **22**



WB Washington Blvd Baseline



EB Washington Blvd Baseline



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TRANSPORTATION DIRECTOR	
PROJECT MANAGER	
Revisions	Date

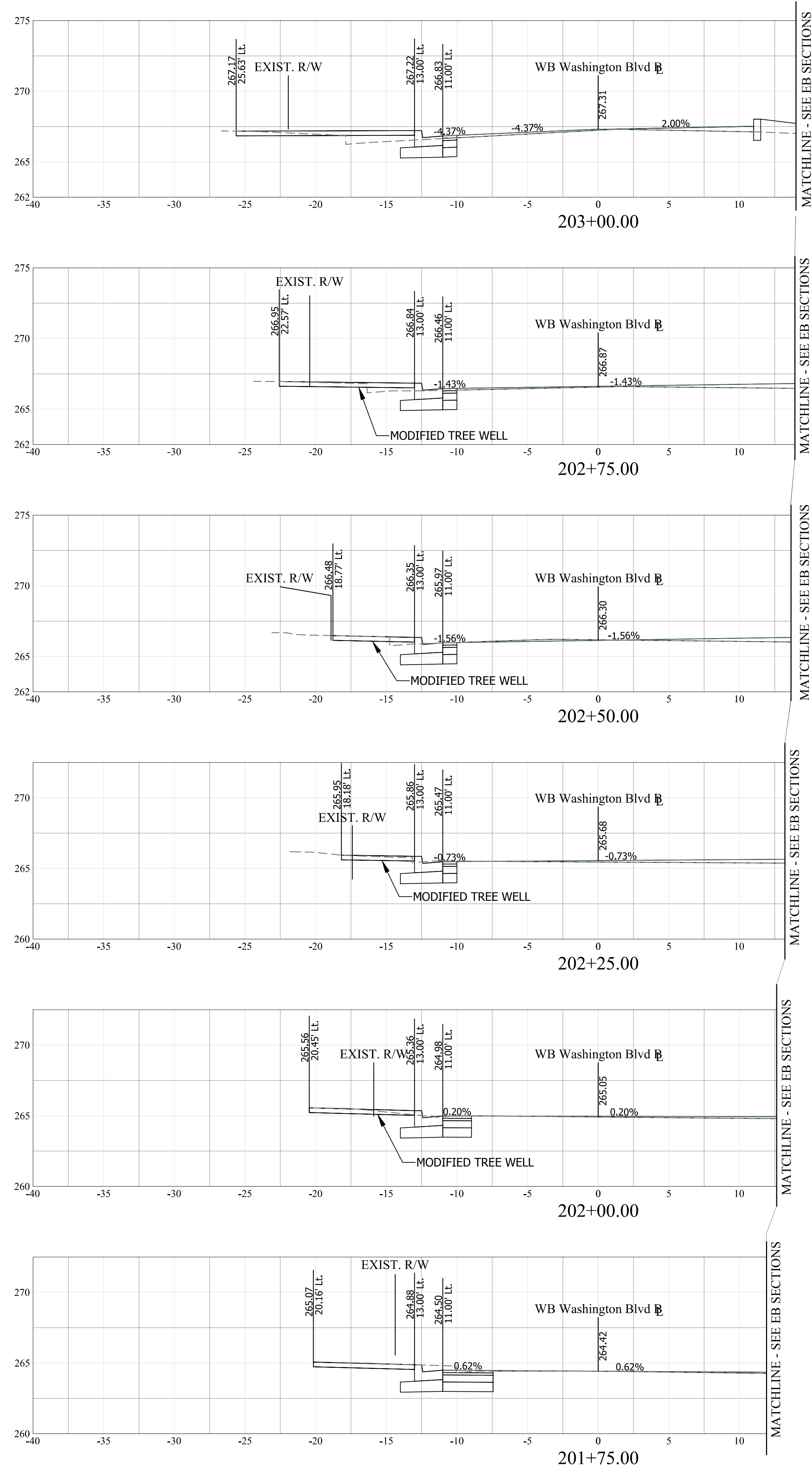
Project Name and Location
Clarendon Circle Improvements
 CROSS SECTIONS - WASHINGTON BLVD
 Wilson Blvd. at Washington Blvd.

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

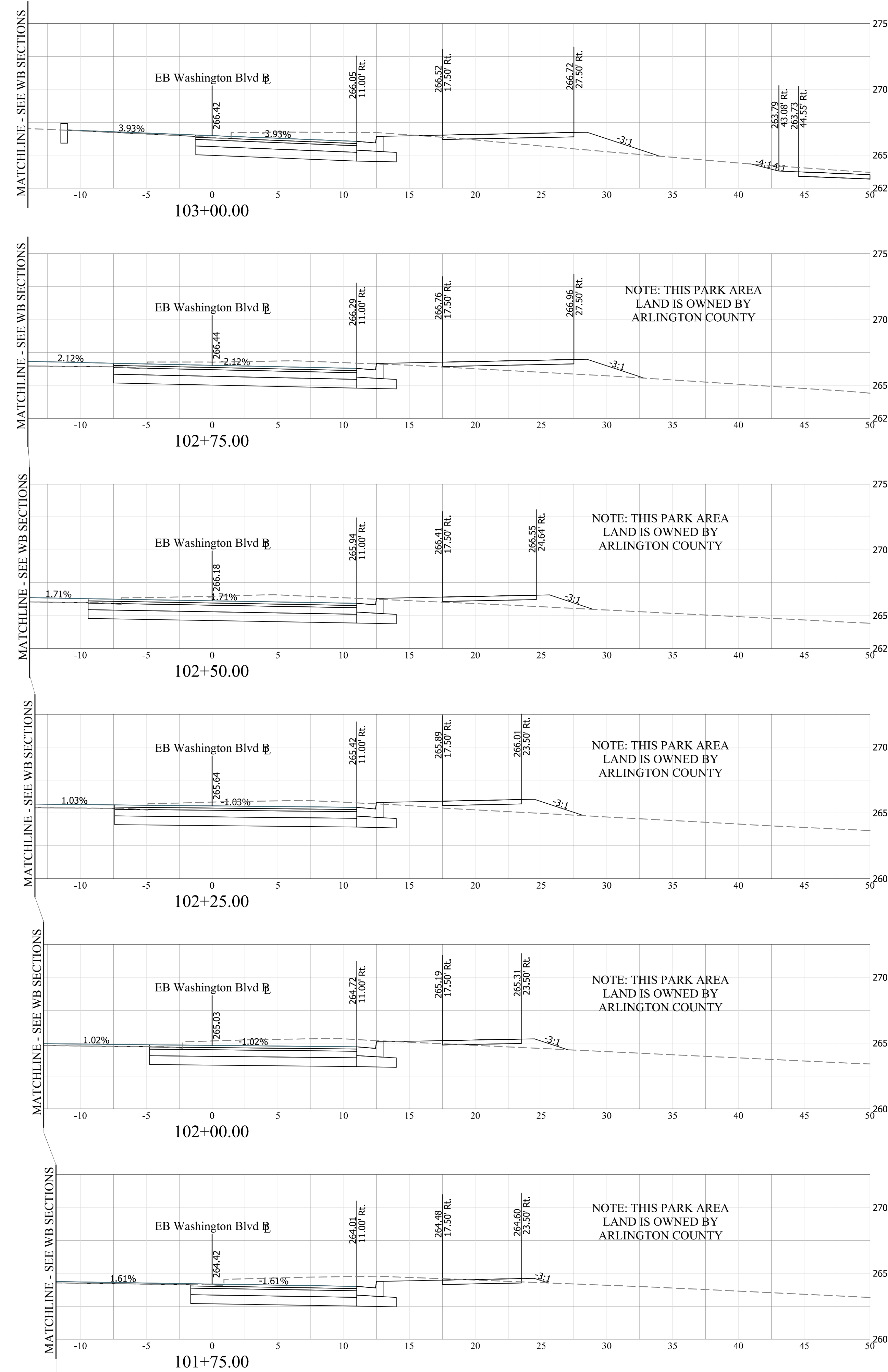
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 Plotted by: icathcart

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 Vert.: 1"=5'

WB Washington Blvd Baseline



EB Washington Blvd Baseline



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CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	
PROJECT MANAGER	
Revisions	Date

Project Name and Location
Clarendon Circle Improvements
CROSS SECTIONS - WASHINGTON BLVD
Wilson Blvd. at Washington Blvd.

Designed: IJC
Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

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Plotted by: icathcart

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Vert.: 1"=5'

WB Washington Blvd Baseline

EB Washington Blvd Baseline



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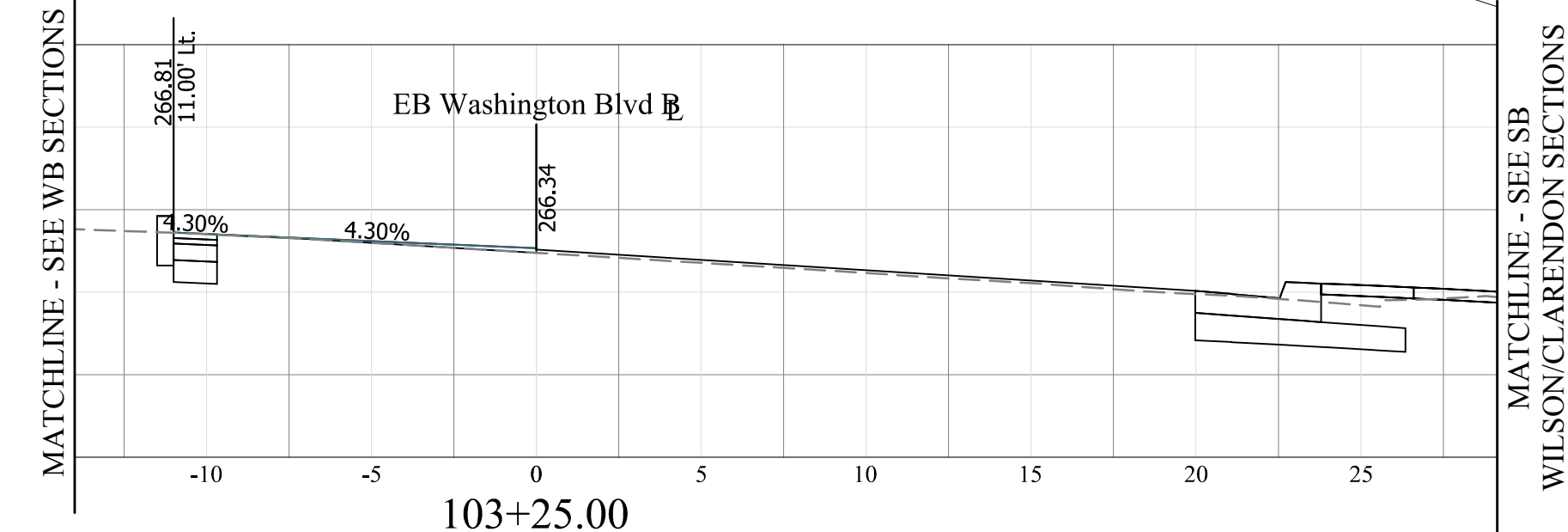
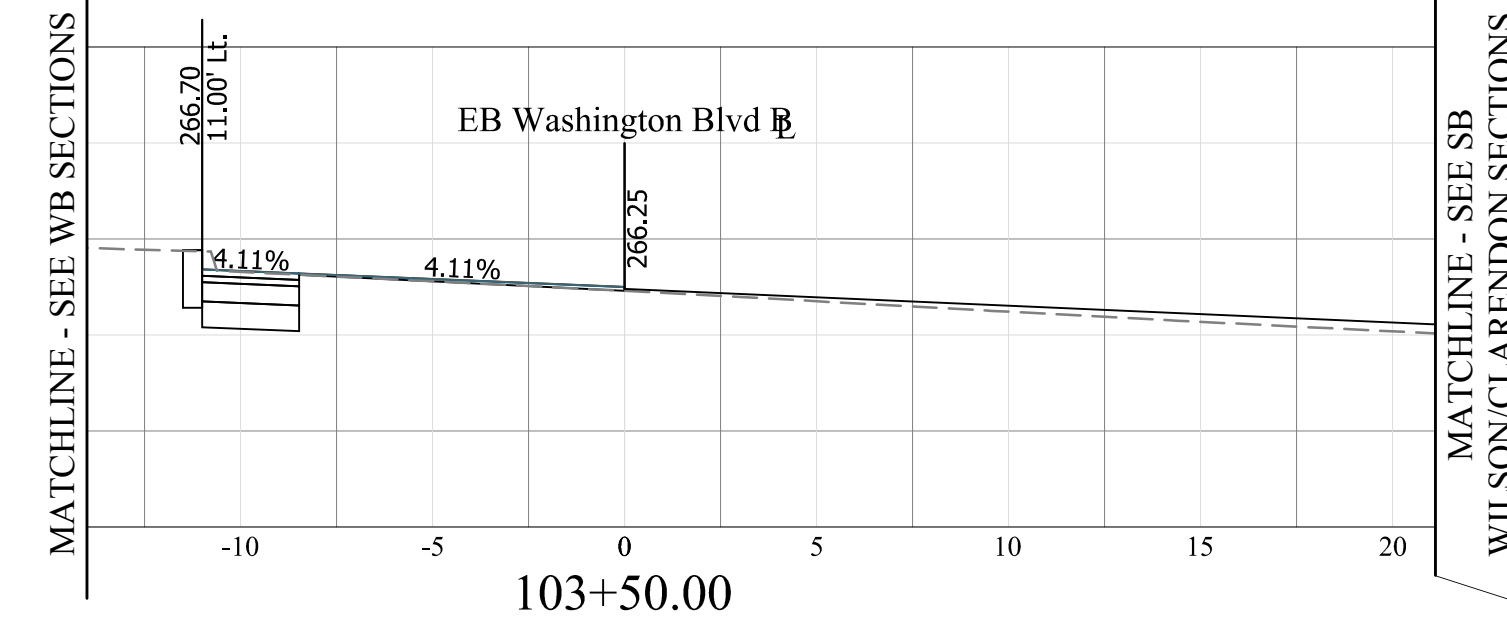
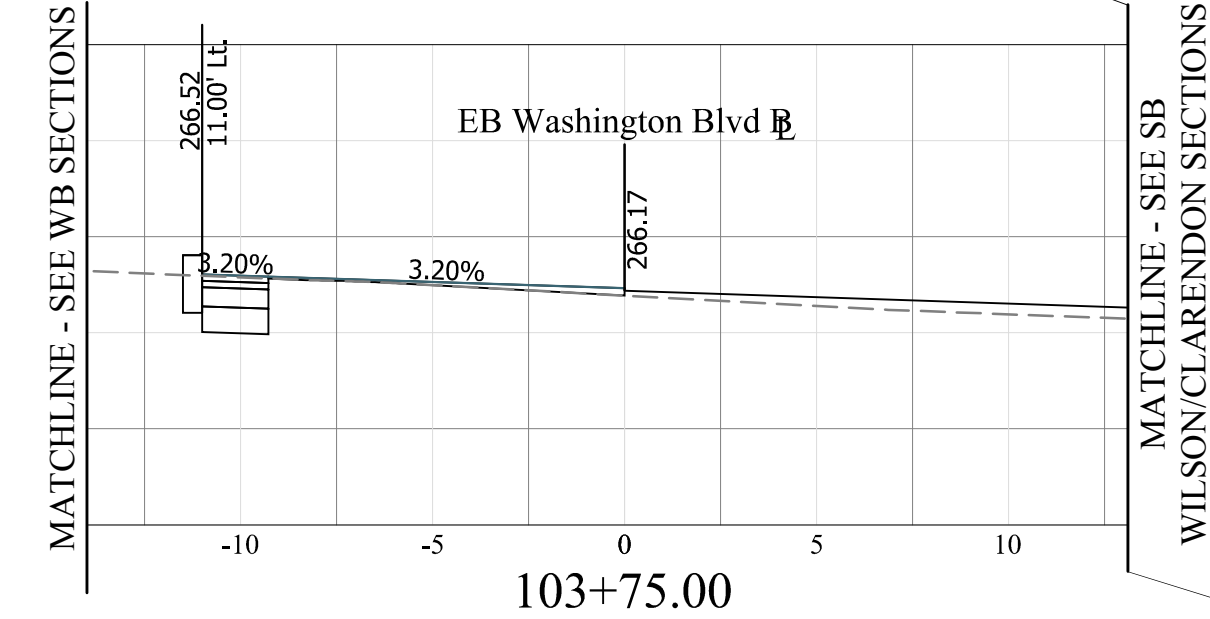
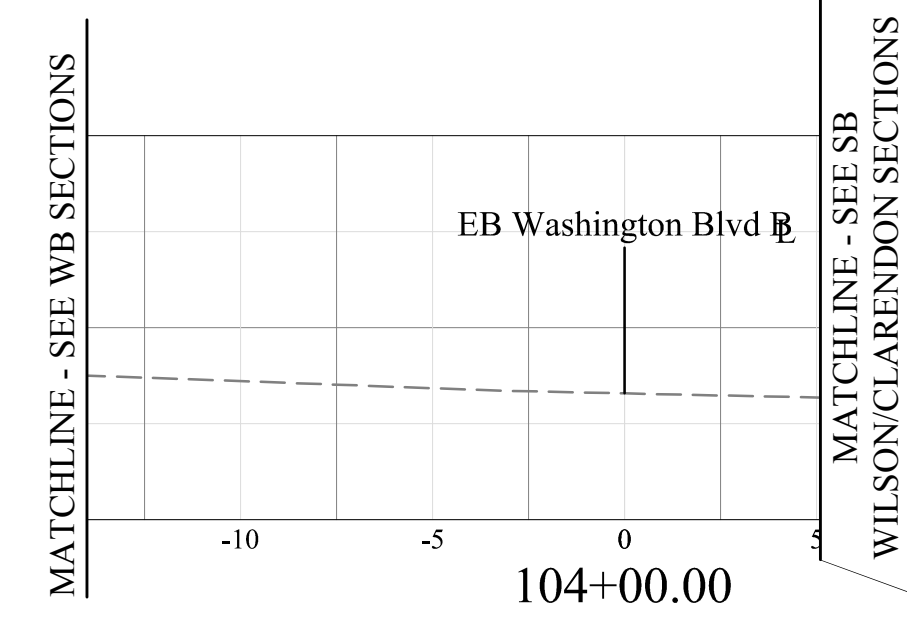
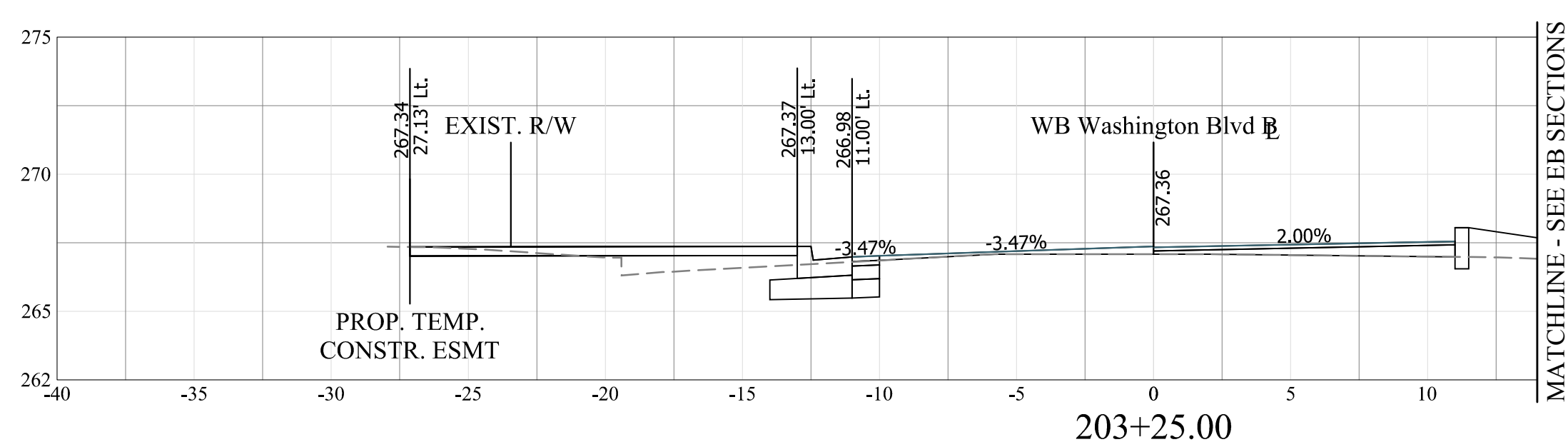
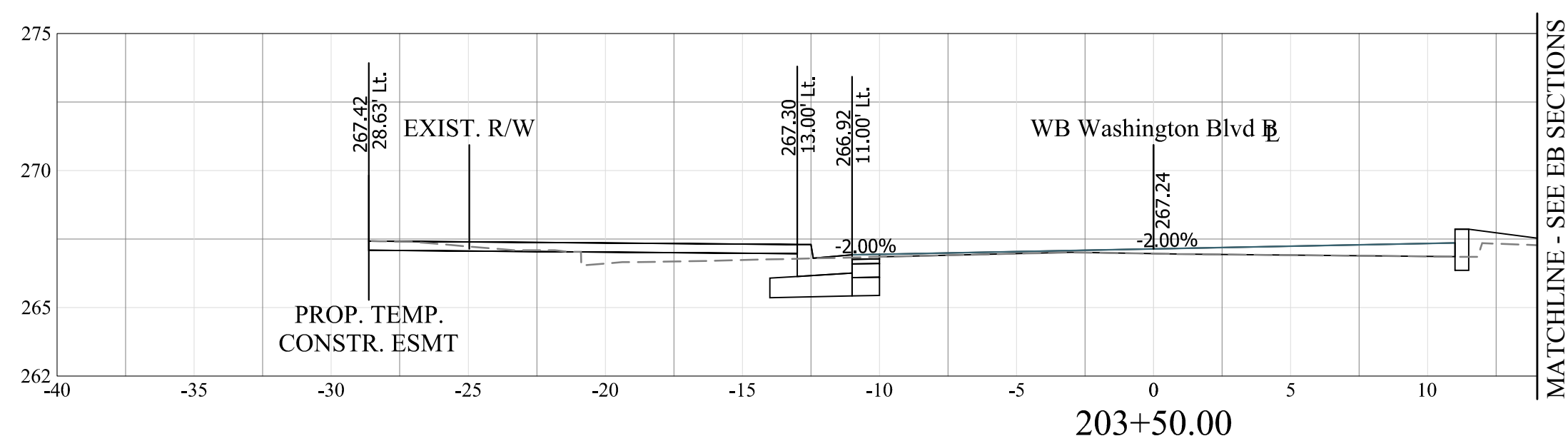
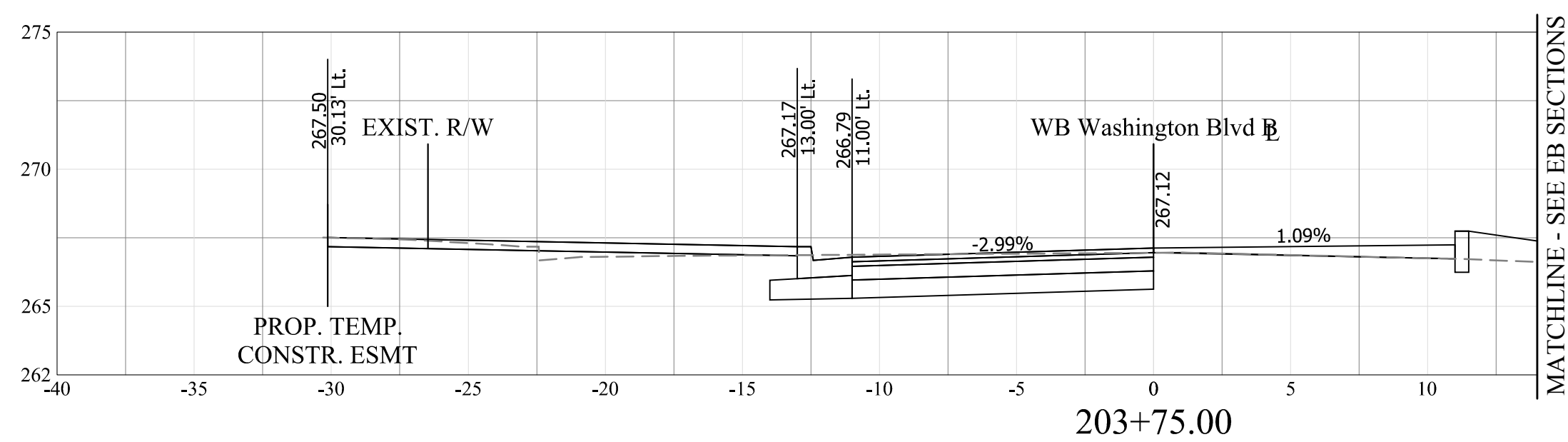
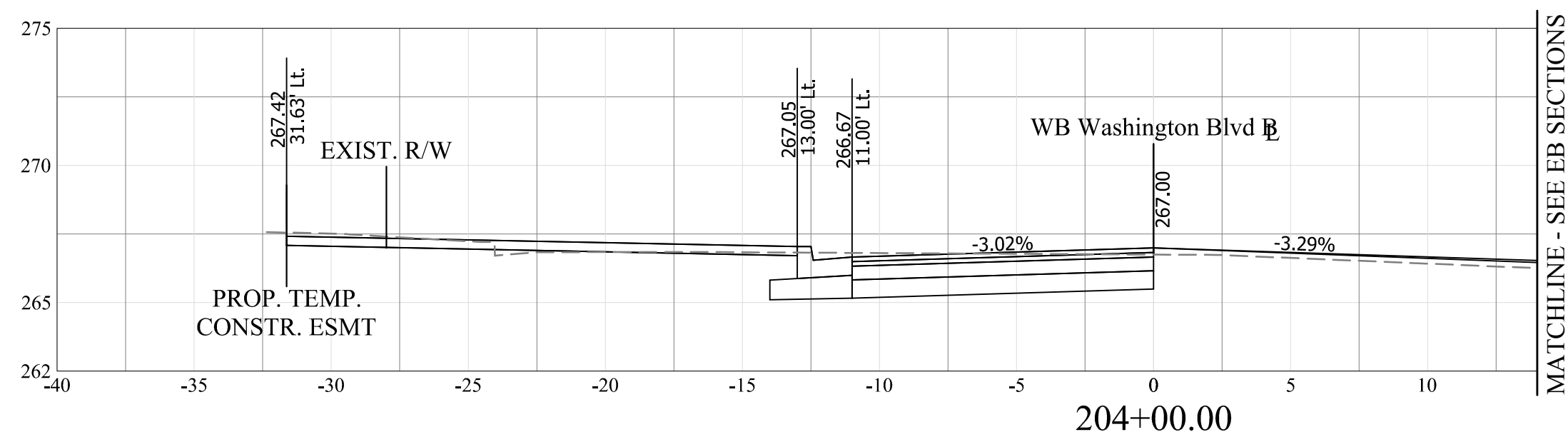
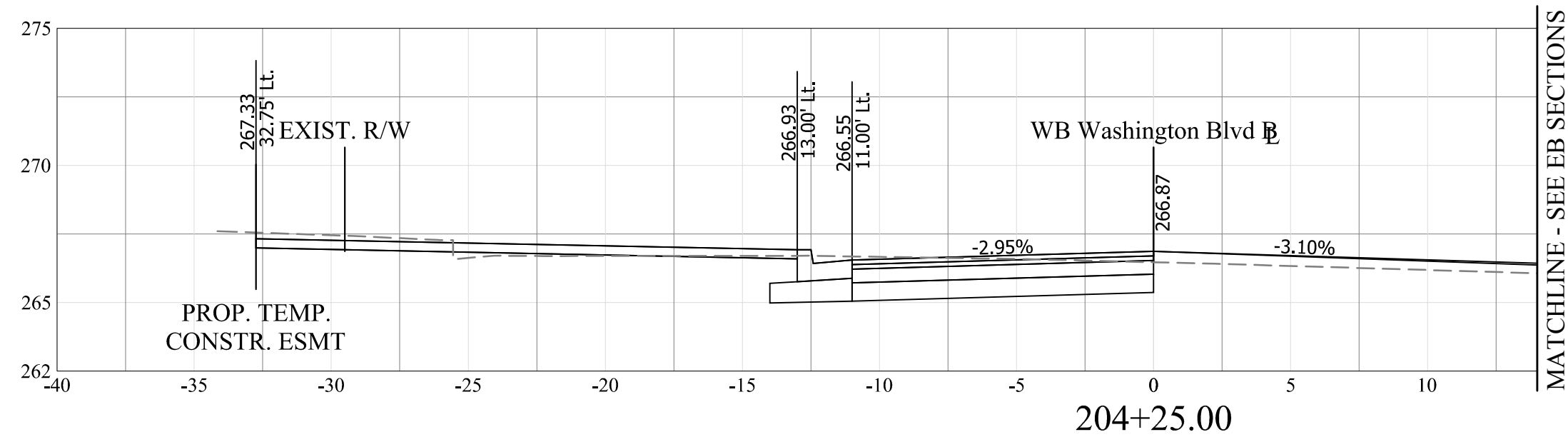
WATER, SEWER STREETS BUREAU CHIEF

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PROJECT MANAGER

Revisions Date

Stations 104+25 - 105+00: See NB Wilson/Clarendon Blvd Cross Sections



Project Name and Location
Clarendon Circle Improvements
 CROSS SECTIONS - WASHINGTON BLVD
 Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

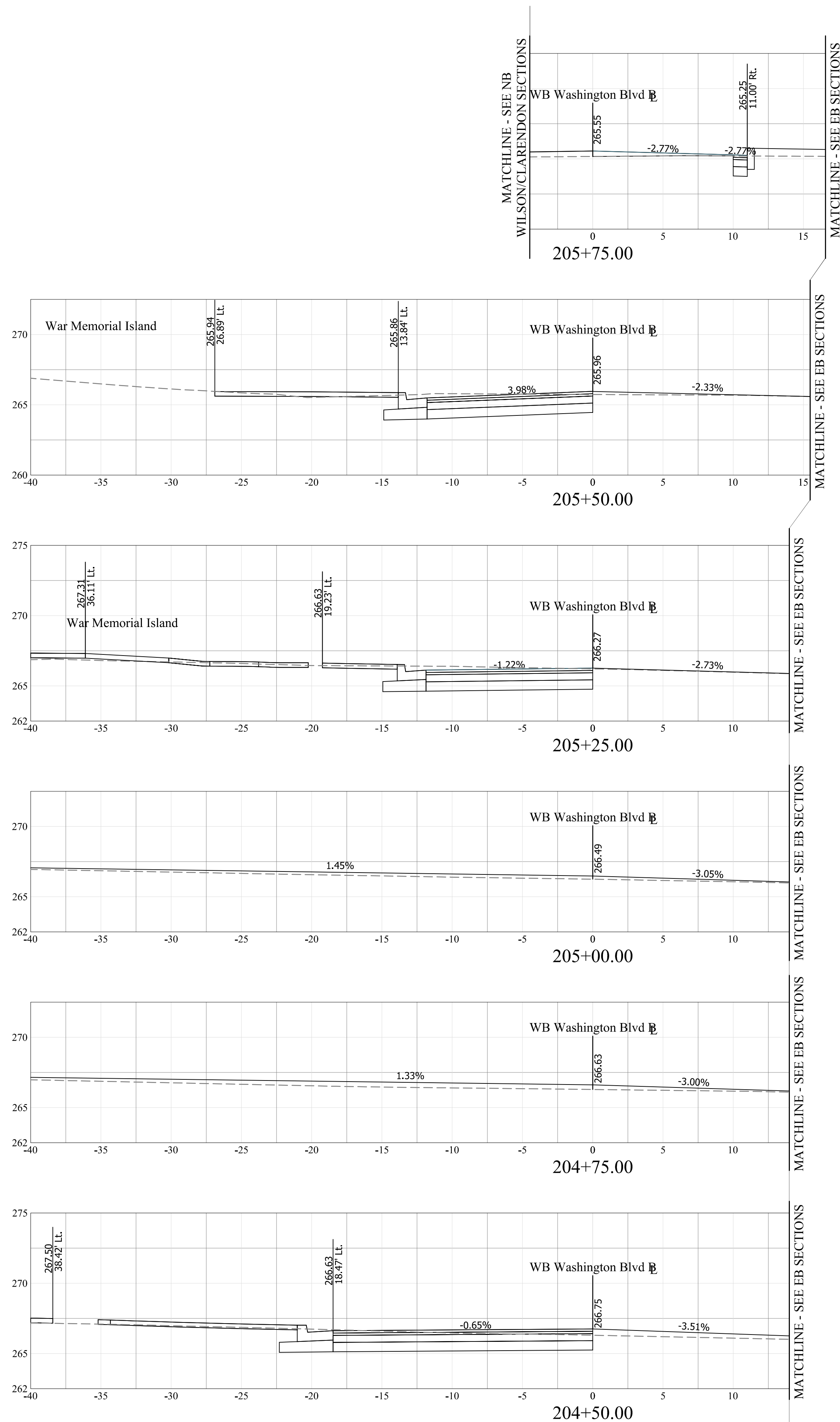
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 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

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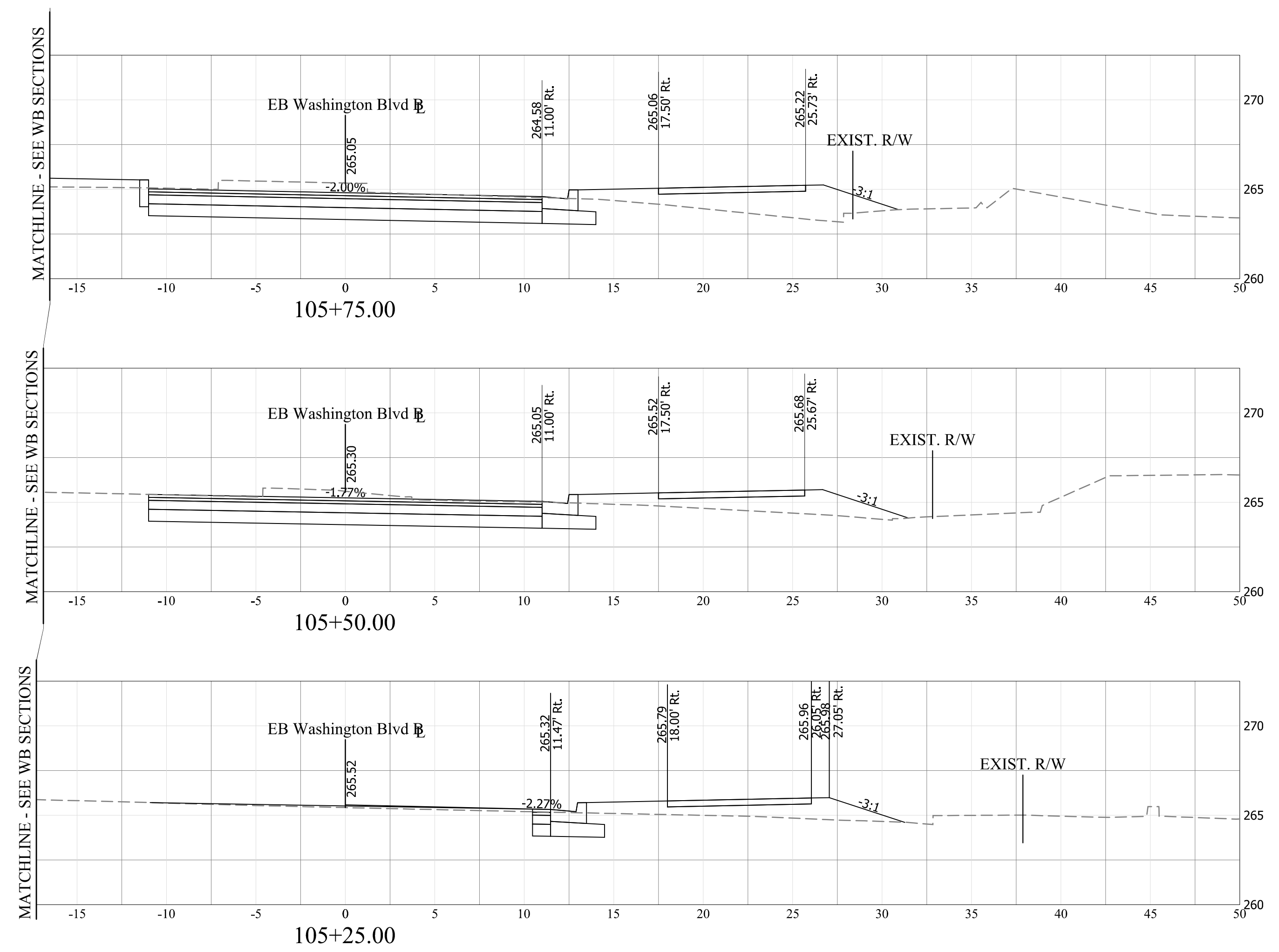
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Sheet **25**

WB Washington Blvd Baseline



EB Washington Blvd Baseline



Stations 104+25 - 105+00:
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PROJECT MANAGER

Revisions Date

Project Name and Location
Clarendon Circle Improvements
CROSS SECTIONS - WASHINGTON BLVD
Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

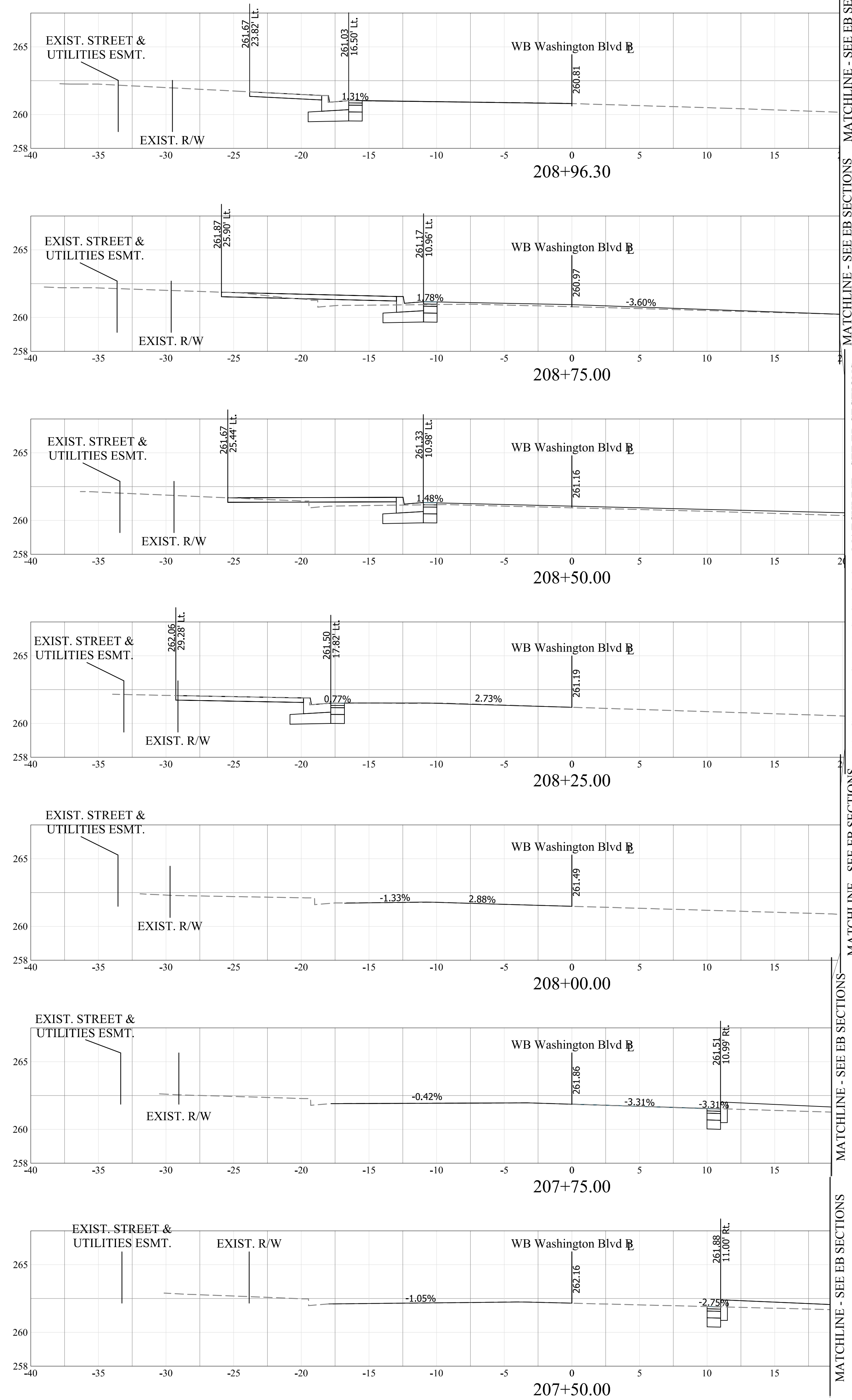
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Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

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Plotted by: icathcart

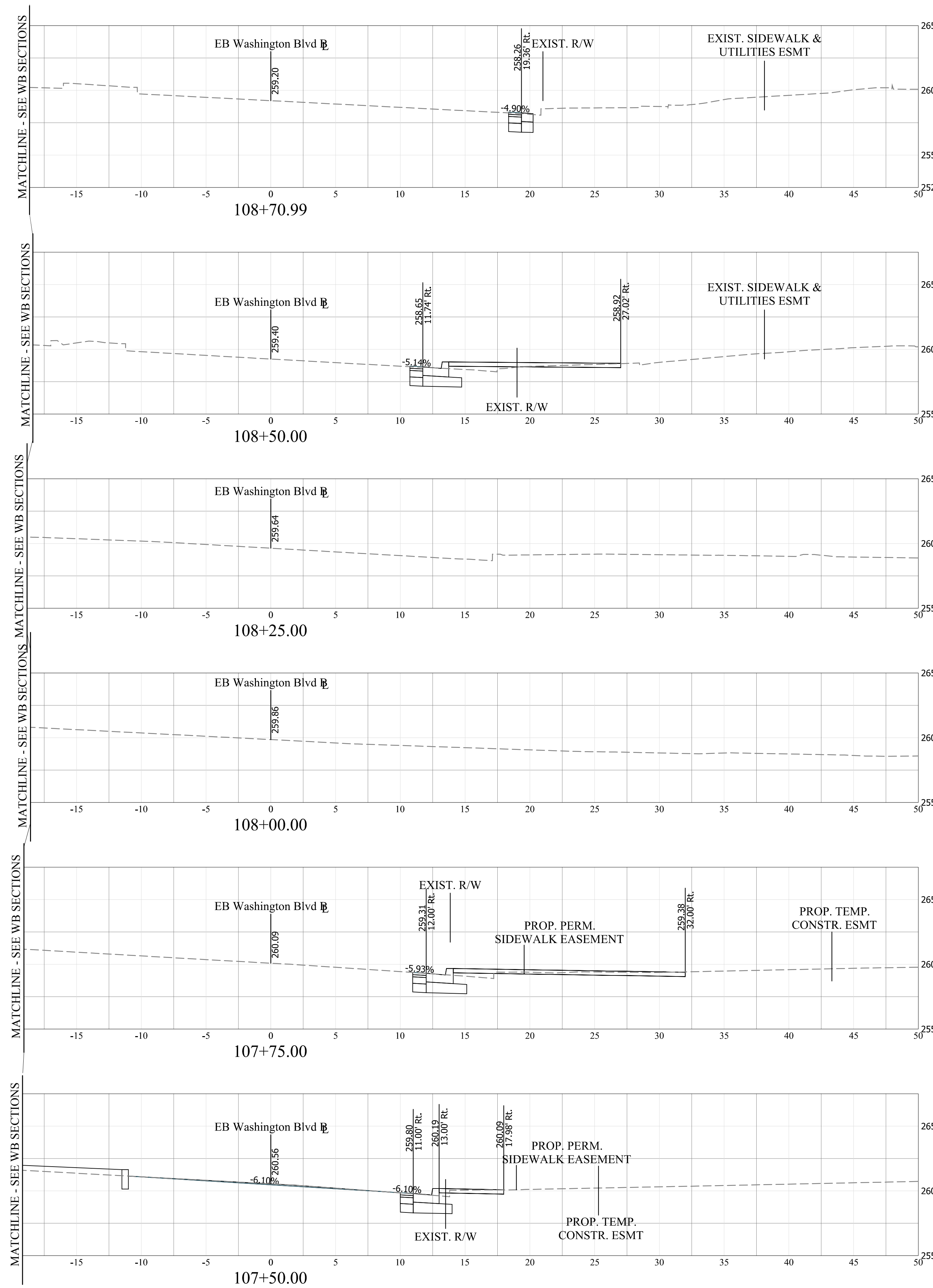
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Sheet **26**

WB Washington Blvd Baseline



EB Washington Blvd Baseline



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CONSTRUCTION MANAGEMENT SUPERVISOR	
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TRANSPORTATION DIRECTOR	
PROJECT MANAGER	

Revisions	Date

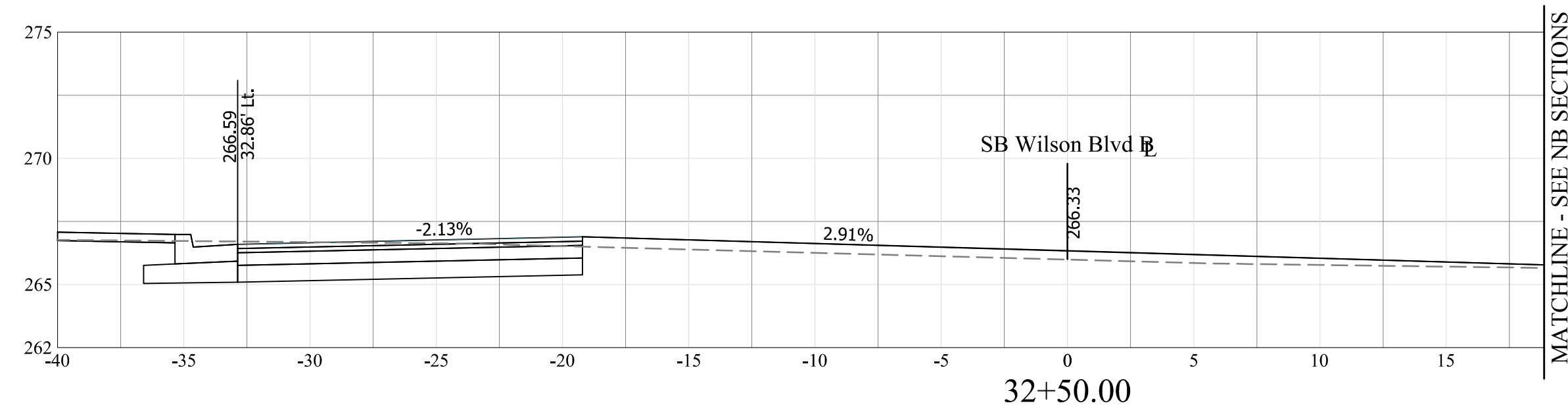
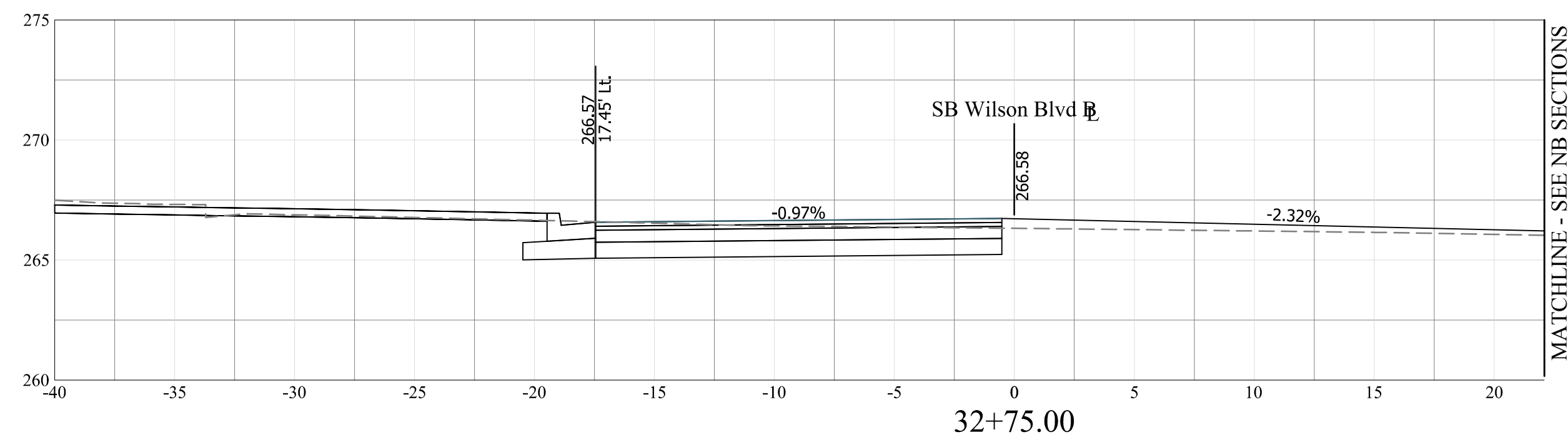
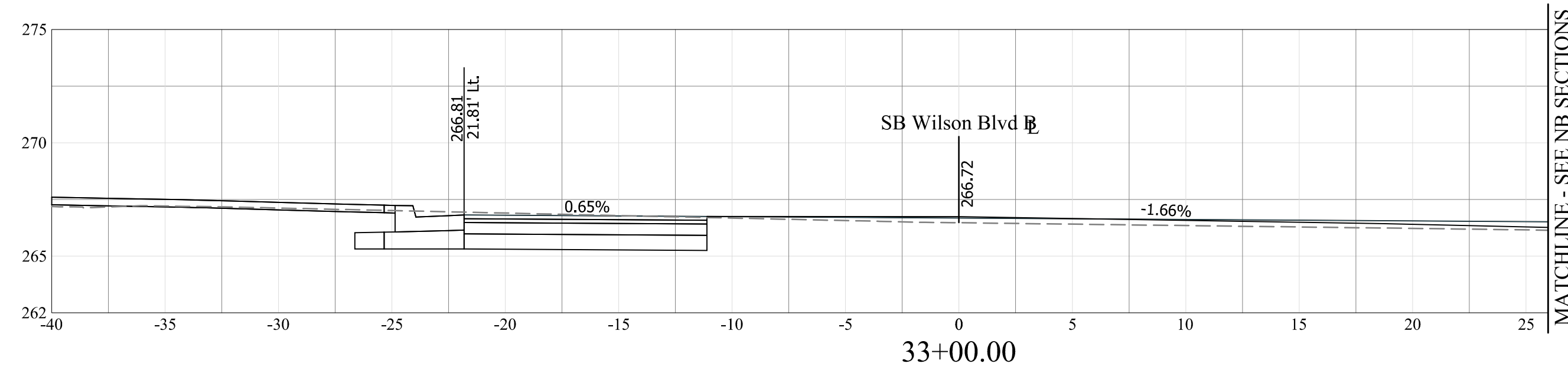
Project Name and Location
Clarendon Circle Improvements
 CROSS SECTIONS - WASHINGTON BLVD
 Wilson Blvd. at Washington Blvd.

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

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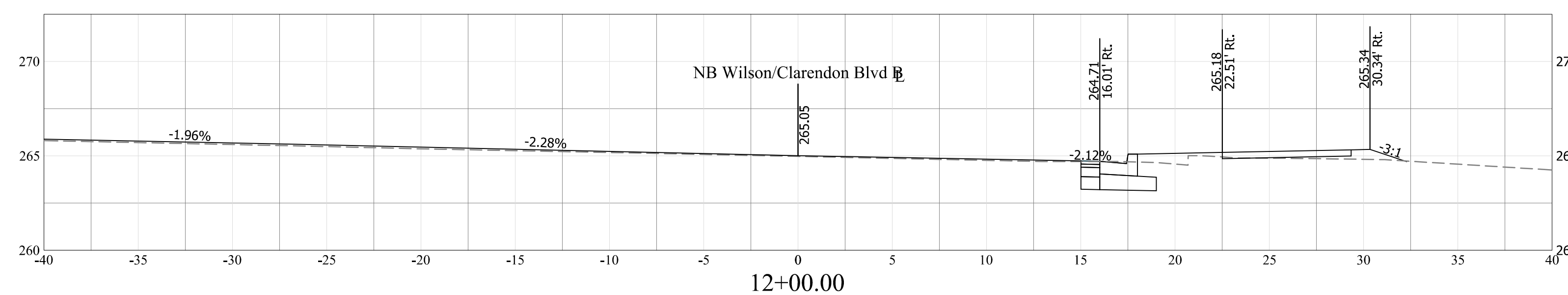
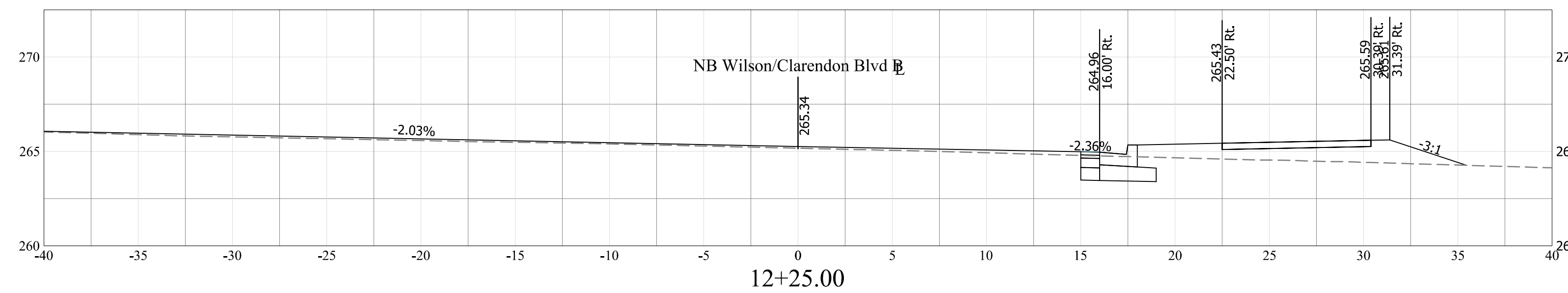
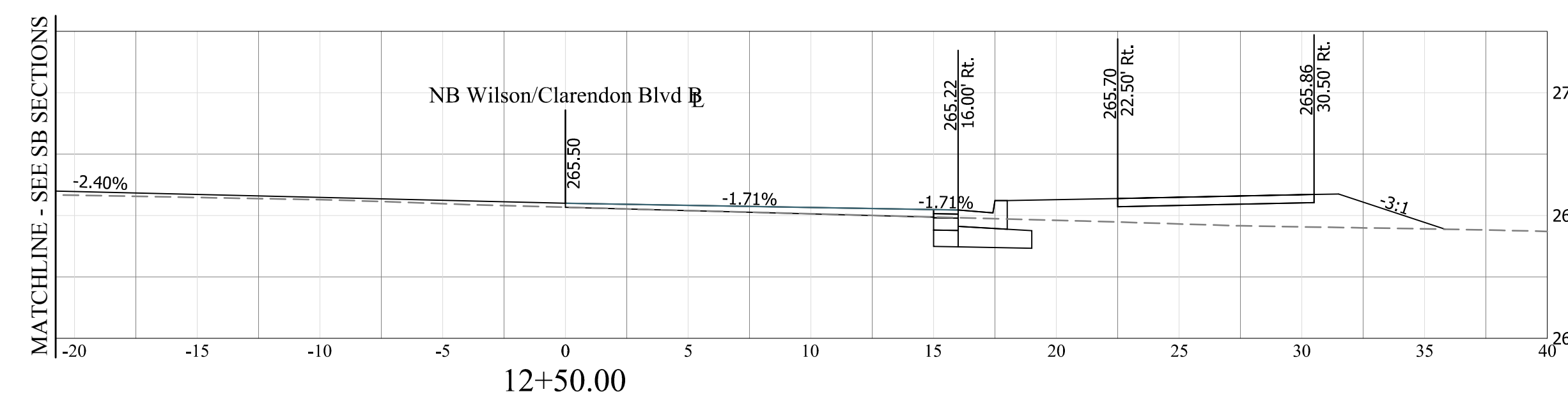
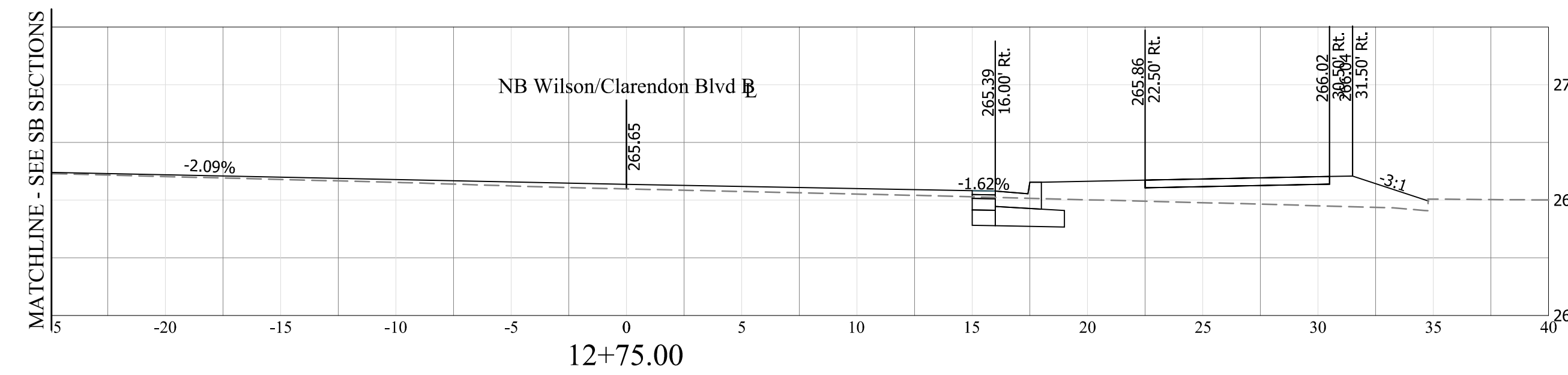
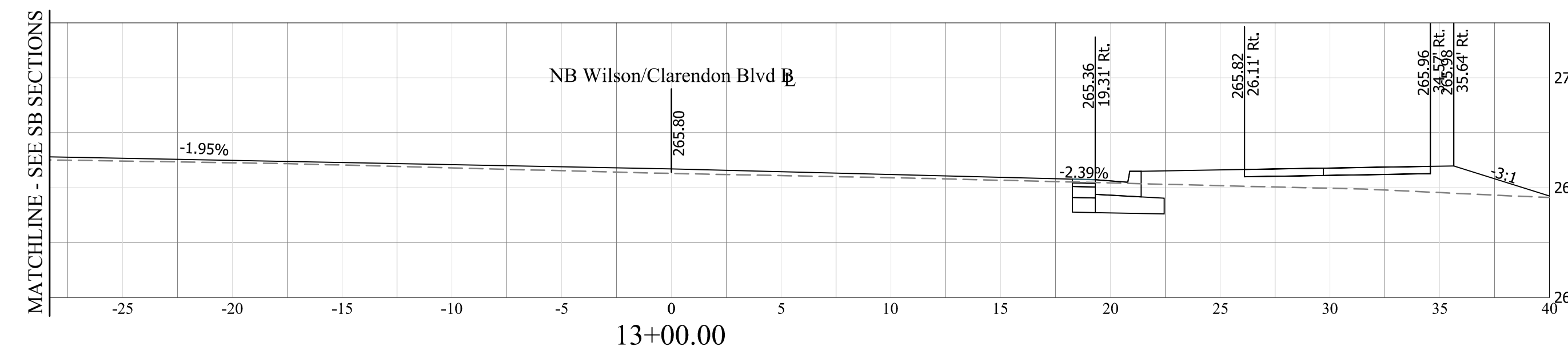
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SB Wilson Blvd Baseline



Stations 32+00 - 32+25:
See NB Wilson/Clarendon Blvd
Cross Sections

NB Wilson/Clarendon Blvd Baseline



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WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Project Name and Location
Clarendon Circle Improvements
CROSS SECTIONS - WILSON/CLARENDON BLVD
Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: IJC
Drawn: IJC
Checked: MRM
Miss Utility Transmittal #: 5057

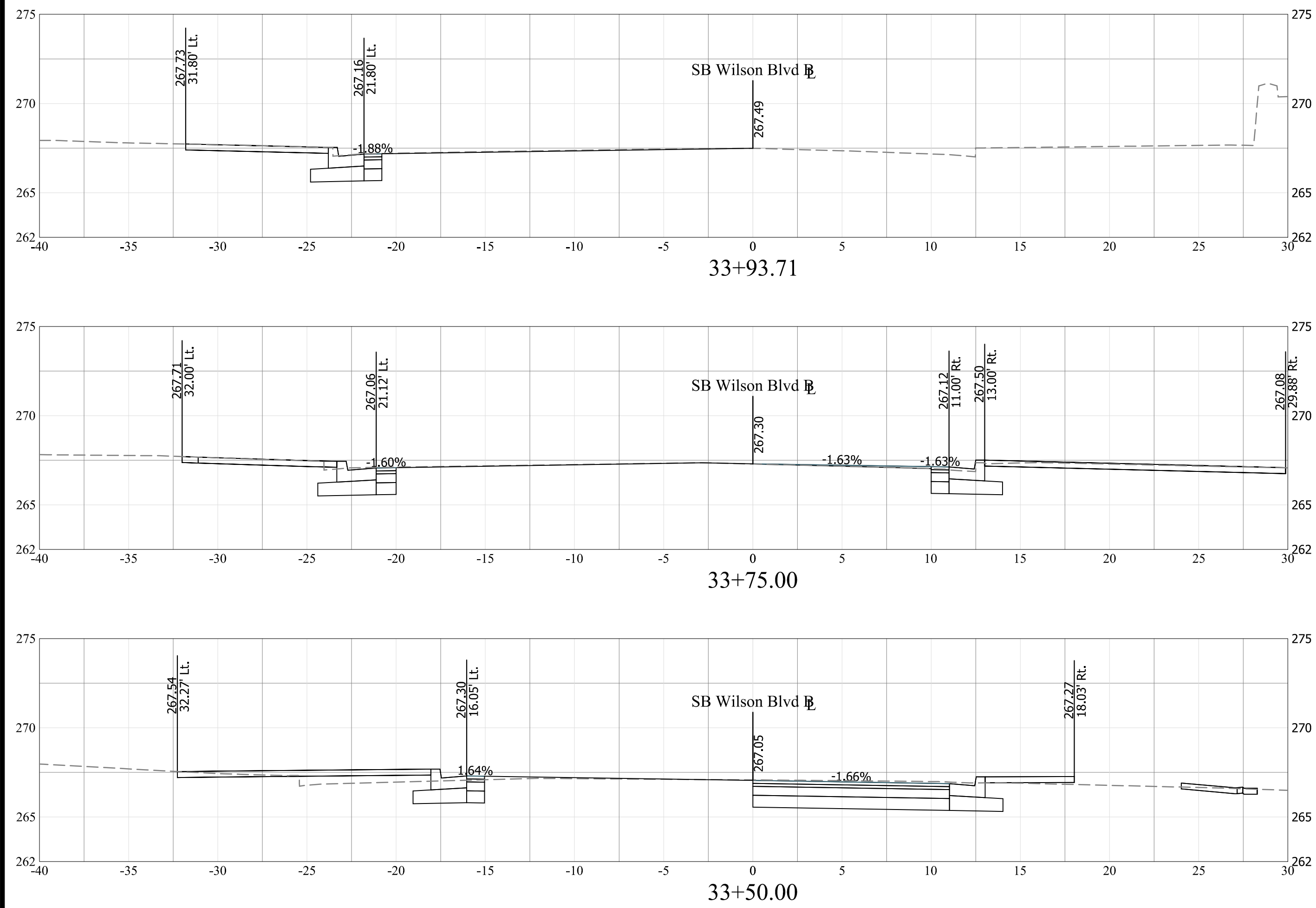
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Plotted by: icathcart

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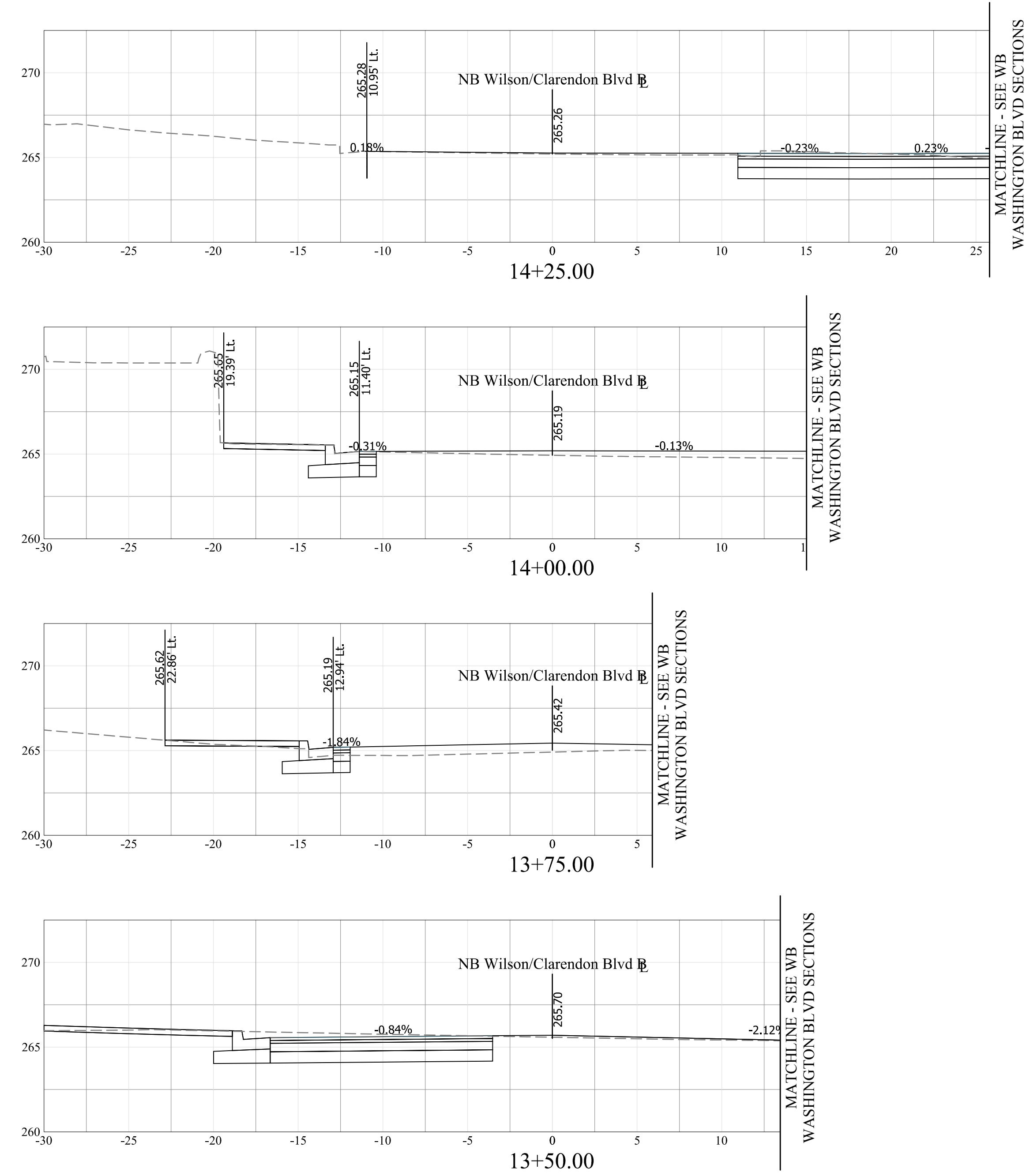
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SB Wilson Blvd Baseline



Station 33+25:
 See WB Washington Blvd
 Cross Sections

NB Wilson/Clarendon Blvd Baseline



Station 13+25:
 See EB Washington Blvd
 Cross Sections



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WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Project Name and Location
Clarendon Circle Improvements
 CROSS SECTIONS -
 WILSON/CLARENDON BLVD
 Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: IJC
 Drawn: IJC
 Checked: MRM
 Miss Utility Transmittal #: 5057

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 Plotted: May 27, 2016
 Plotted by: icathcart

Scale: Hor.: 1"=5'
 Vert.: 1"=5'

NB Wilson/Clarendon Blvd Baseline



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DESIGN TEAM SUPERVISOR

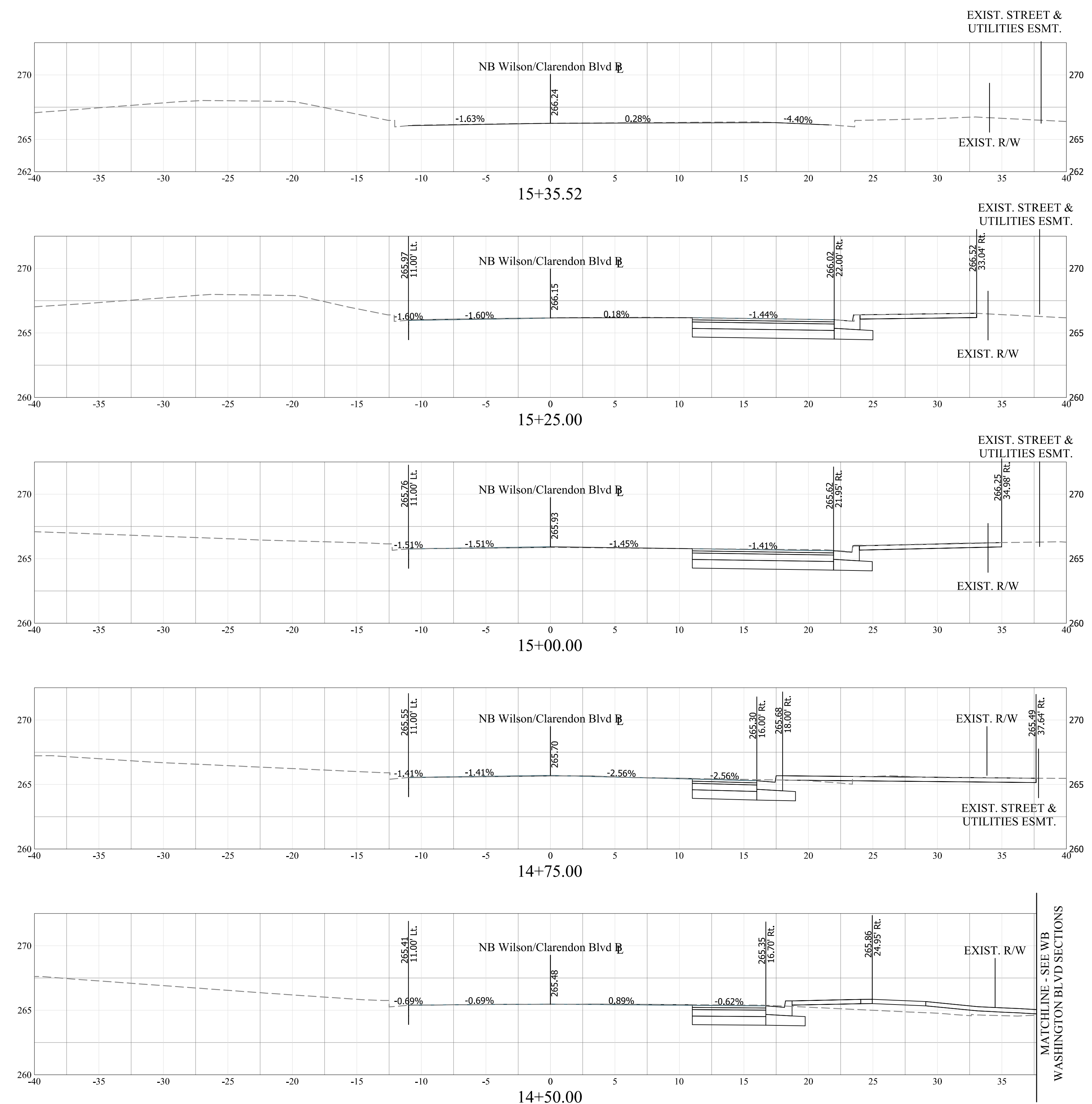
CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date



Project Name and Location

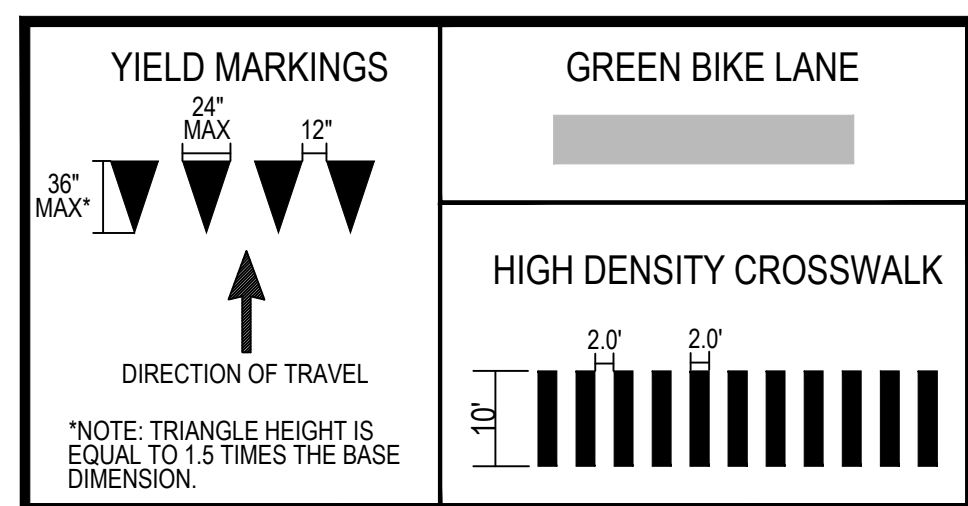
Clarendon Circle Improvements
CROSS SECTIONS - WILSON/CLARENDON BLVD
Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

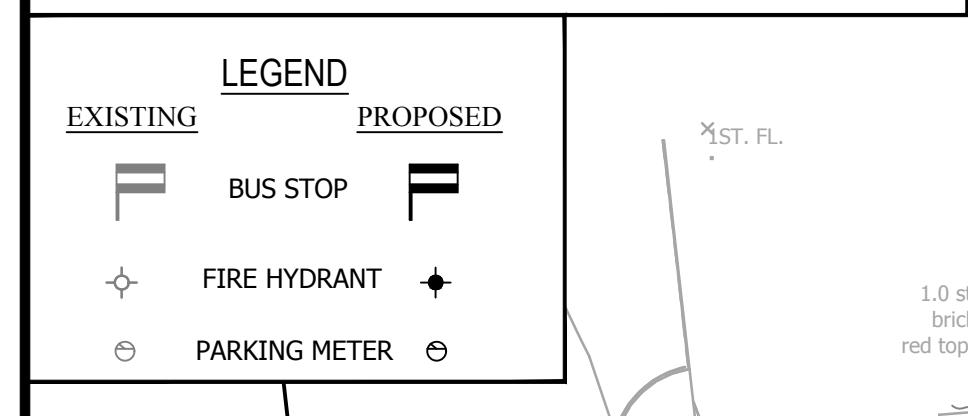
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Plotted: May 27, 2016
Plotted by: icathcart

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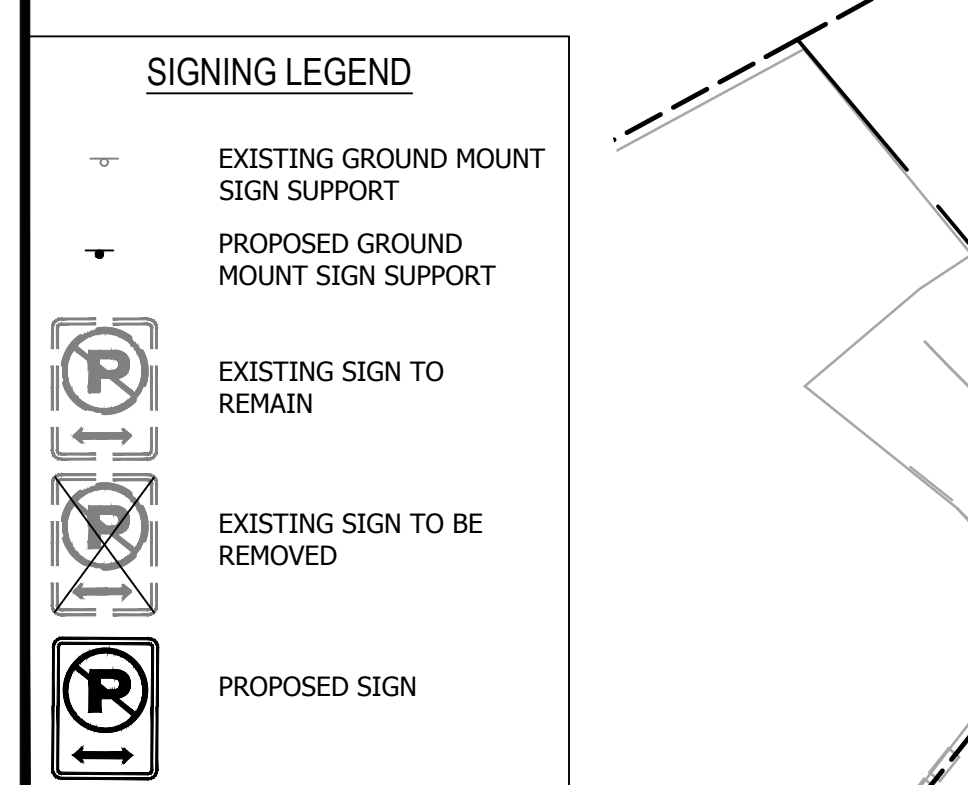
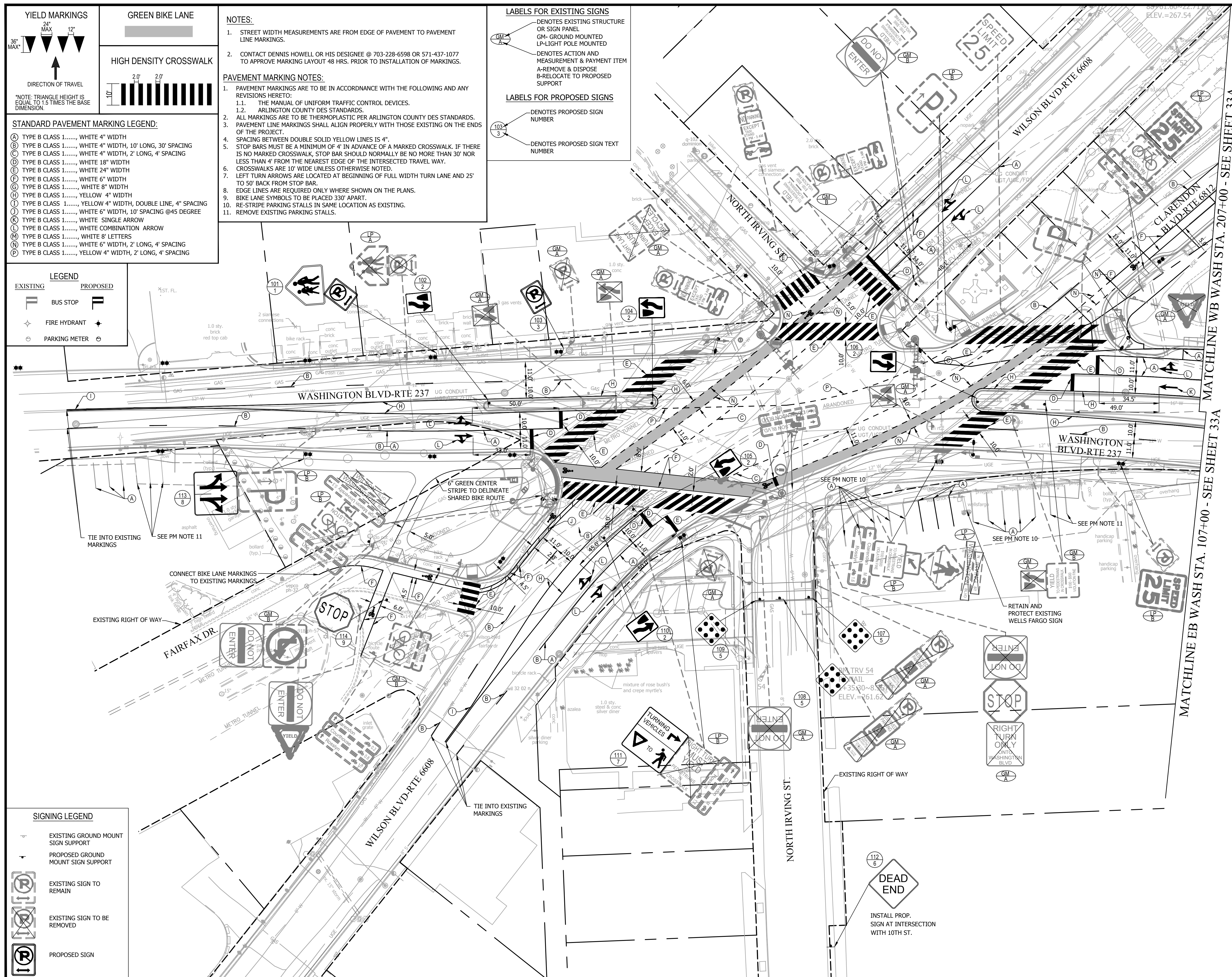


- STANDARD PAVEMENT MARKING LEGEND:**
- (A) TYPE B CLASS 1..... WHITE 4" WIDTH
 - (B) TYPE B CLASS 1..... WHITE 4" WIDTH, 10' LONG, 30' SPACING
 - (C) TYPE B CLASS 1..... WHITE 4" WIDTH, 2' LONG, 4' SPACING
 - (D) TYPE B CLASS 1..... WHITE 18" WIDTH
 - (E) TYPE B CLASS 1..... WHITE 24" WIDTH
 - (F) TYPE B CLASS 1..... WHITE 6" WIDTH
 - (G) TYPE B CLASS 1..... WHITE 8" WIDTH
 - (H) TYPE B CLASS 1..... WHITE 6" WIDTH, 10' SPACING @45 DEGREE
 - (I) TYPE B CLASS 1..... YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING
 - (J) TYPE B CLASS 1..... WHITE 6" WIDTH, 10' SPACING @45 DEGREE
 - (K) TYPE B CLASS 1..... WHITE SINGLE ARROW
 - (L) TYPE B CLASS 1..... WHITE COMBINATION ARROW
 - (M) TYPE B CLASS 1..... WHITE 8" LETTERS
 - (N) TYPE B CLASS 1..... WHITE 6" WIDTH, 2' LONG, 4' SPACING
 - (P) TYPE B CLASS 1..... YELLOW 4" WIDTH, 2' LONG, 4' SPACING



- NOTES:**
- STREET WIDTH MEASUREMENTS ARE FROM EDGE OF PAVEMENT TO PAVEMENT LINE MARKINGS.
 - CONTACT DENNIS HOWELL OR HIS DESIGNEE @ 703-228-6598 OR 571-437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.
- PAVEMENT MARKING NOTES:**
- PAVEMENT MARKINGS ARE TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERETO:
 - THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - ARLINGTON COUNTY DES STANDARDS.
 - ALL MARKINGS ARE TO BE THERMOPLASTIC PER ARLINGTON COUNTY DES STANDARDS.
 - PAVEMENT LINE MARKINGS SHALL ALIGN PROPERLY WITH THOSE EXISTING ON THE ENDS OF THE PROJECT.
 - SPACING BETWEEN DOUBLE SOLID YELLOW LINES IS 4".
 - STOP BARS MUST BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHOULD NORMALLY BE NO MORE THAN 30' NOR LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVEL WAY.
 - CROSSWALKS ARE 10' WIDE UNLESS OTHERWISE NOTED.
 - LEFT TURN ARROWS ARE LOCATED AT BEGINNING OF FULL WIDTH TURN LANE AND 25' TO 50' BACK FROM STOP BAR.
 - EDGE LINES ARE REQUIRED ONLY WHERE SHOWN ON THE PLANS.
 - BIKE LANE SYMBOLS TO BE PLACED 330' APART.
 - RE-STRIP PARKING STALLS IN SAME LOCATION AS EXISTING.
 - REMOVE EXISTING PARKING STALLS.

- LABELS FOR EXISTING SIGNS**
- GM-A DENOTES EXISTING STRUCTURE OR SIGN PANEL
 - GM-B DENOTES GROUND MOUNTED LP-LIGHT POLE MOUNTED
 - GM-C DENOTES ACTION AND MEASUREMENT & PAYMENT ITEM
 - A-REMOVE & DISPOSE
 - B-RELOCATE TO PROPOSED SUPPORT
- LABELS FOR PROPOSED SIGNS**
- GM-A DENOTES PROPOSED SIGN NUMBER
 - GM-B DENOTES PROPOSED SIGN TEXT NUMBER



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
 Engineering Bureau
 2100 Clarendon Boulevard, Suite 813
 Arlington, VA 22201
 Phone: 703.228.3629
 Fax: 703.228.3606
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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Revisions	Date

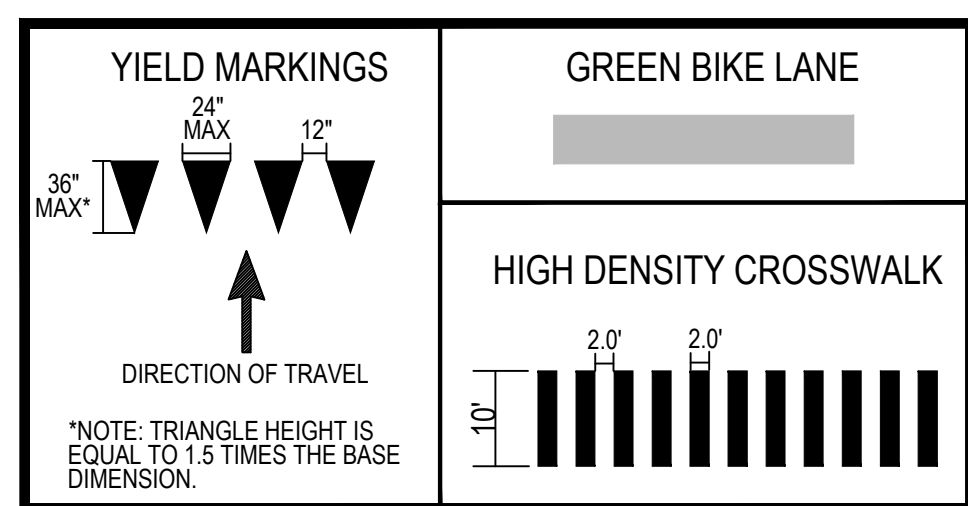
Project Name and Location
Clarendon Circle Improvements
 SIGNING & PAVEMENT MARKINGS PLAN
 Wilson Blvd. at Washington Blvd.

Designed: RB
 Drawn: RB
 Checked: SM
 Miss Utility Transmittal #: 5057

Filename: 33_Signing & Pave Marking.dwg
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 Plotted: May 26, 2016
 Plotted by: marnone

Scale: Hor.: 1" = 25'

Sheet **33**



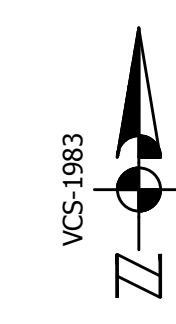
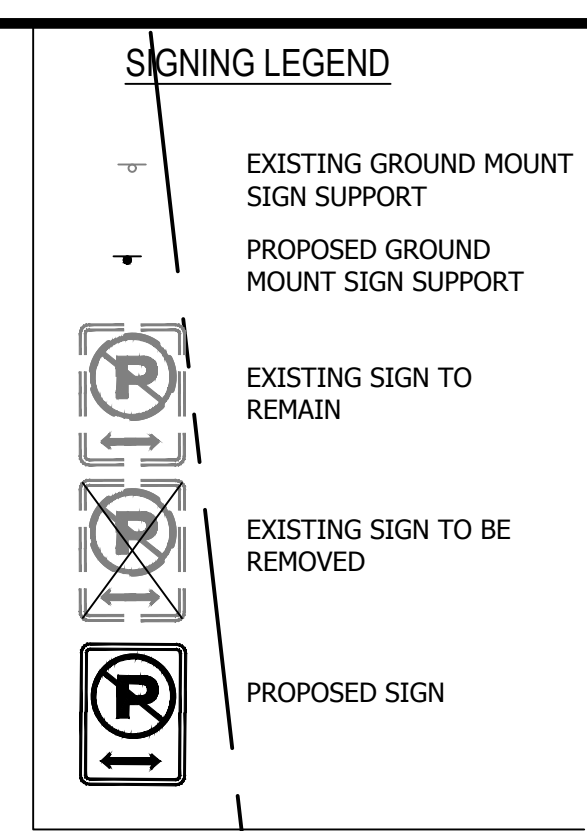
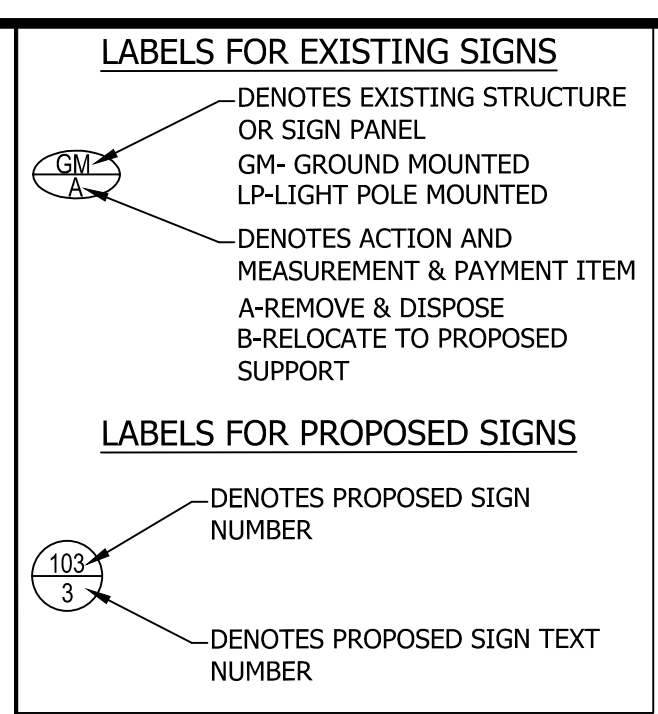
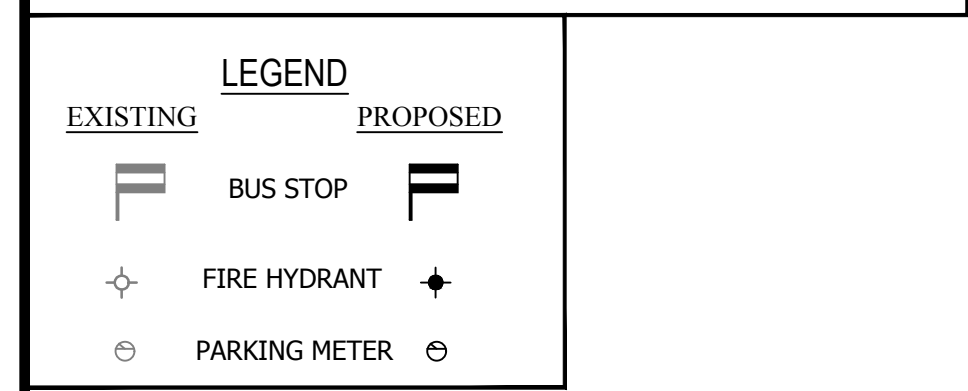
NOTES:

- STREET WIDTH MEASUREMENTS ARE FROM EDGE OF PAVEMENT TO PAVEMENT LINE MARKINGS.
- CONTACT DENNIS HOWELL OR HIS DESIGNEE @ 703-228-6598 OR 571-437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.

PAVEMENT MARKING NOTES:

- PAVEMENT MARKINGS ARE TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERETO:
 - THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - ARLINGTON COUNTY DES STANDARDS.
- ALL MARKINGS ARE TO BE THERMOPLASTIC PER ARLINGTON COUNTY DES STANDARDS.
- PAVEMENT LINE MARKINGS SHALL ALIGN PROPERLY WITH THOSE EXISTING ON THE ENDS OF THE PROJECT.
- SPACING BETWEEN DOUBLE SOLID YELLOW LINES IS 4".
- STOP BARS MUST BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHOULD NORMALLY BE NO MORE THAN 30' NOR LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVEL WAY.
- CROSSWALKS ARE 10' WIDE UNLESS OTHERWISE NOTED.
- LEFT TURN ARROWS ARE LOCATED AT BEGINNING OF FULL WIDTH TURN LANE AND 25' TO 50' BACK FROM STOP BAR.
- EDGE LINES ARE REQUIRED ONLY WHERE SHOWN ON THE PLANS.
- BIKE LANE SYMBOLS TO BE PLACED 330' APART.

- STANDARD PAVEMENT MARKING LEGEND:**
- (A) TYPE B CLASS 1....., WHITE 4" WIDTH
 - (B) TYPE B CLASS 1....., WHITE 4" WIDTH, 10' LONG, 30' SPACING
 - (C) TYPE B CLASS 1....., WHITE 4" WIDTH, 2' LONG, 4' SPACING
 - (D) TYPE B CLASS 1....., WHITE 18" WIDTH
 - (E) TYPE B CLASS 1....., WHITE 24" WIDTH
 - (F) TYPE B CLASS 1....., WHITE 6" WIDTH
 - (G) TYPE B CLASS 1....., WHITE 8" WIDTH
 - (H) TYPE B CLASS 1....., YELLOW 4" WIDTH
 - (I) TYPE B CLASS 1....., YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING
 - (J) TYPE B CLASS 1....., WHITE 6" WIDTH, 10' SPACING @45 DEGREE
 - (K) TYPE B CLASS 1....., WHITE SINGLE ARROW
 - (L) TYPE B CLASS 1....., WHITE COMBINATION ARROW
 - (M) TYPE B CLASS 1....., WHITE 8" LETTERS
 - (N) TYPE B CLASS 1....., WHITE 6" WIDTH, 2' LONG, 4' SPACING
 - (P) TYPE B CLASS 1....., YELLOW 4" WIDTH, 2' LONG, 4' SPACING



ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

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 Engineering Bureau
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 Fax: 703.228.3606

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Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

CONSTRUCTION MANAGEMENT SUPERVISOR _____

WATER, SEWER STREETS BUREAU CHIEF _____

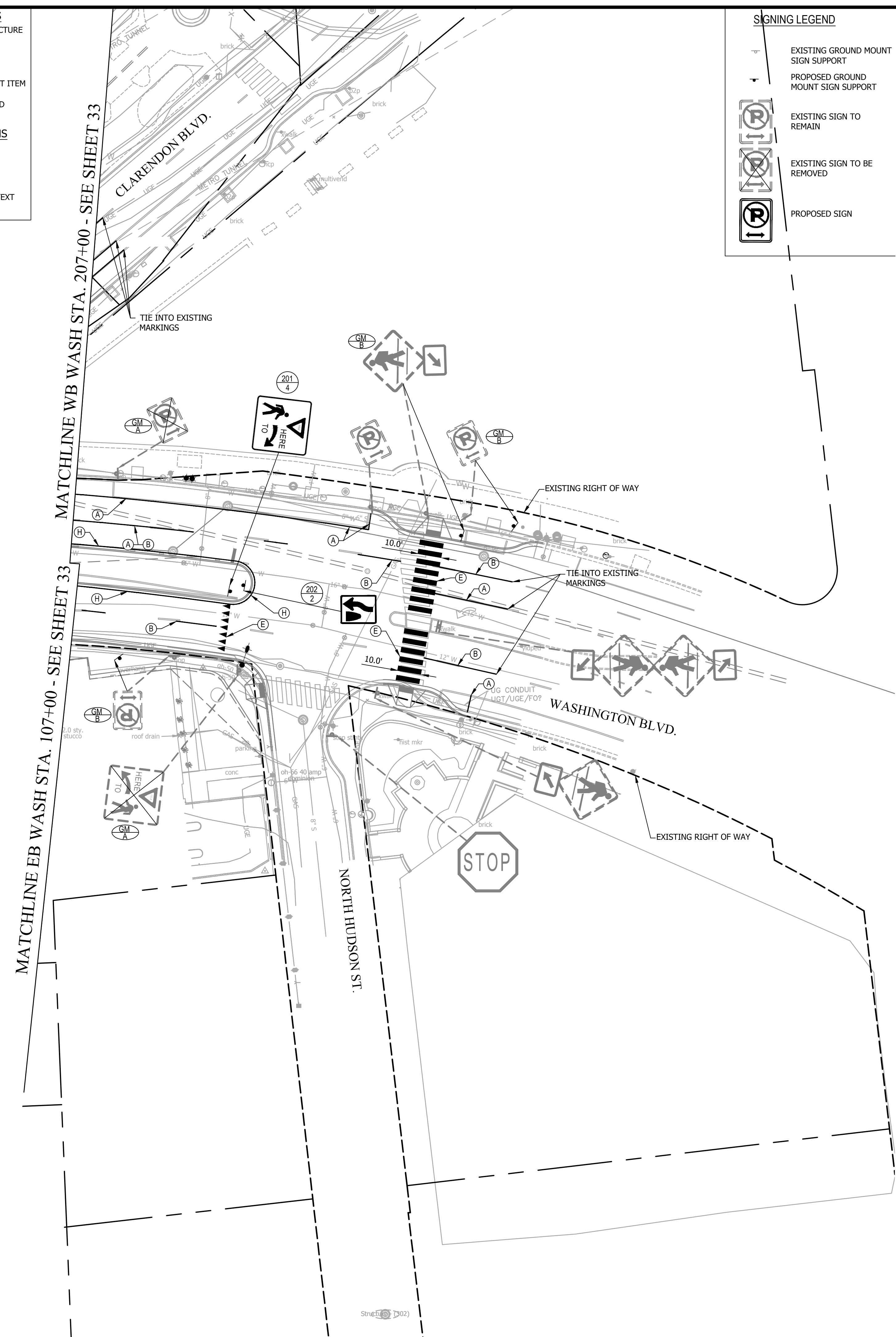
TRANSPORTATION DIRECTOR _____

PROJECT MANAGER _____

Revisions _____ Date _____

SIGN SCHEDULE

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT.	STD.	PANEL SIZE		LETTER TYPE	COLOR COMB.	STD. NO.	QUANTITY	SIGN AREA		REMARKS
					W	H					S.F.	EA.	
1		101	-	-	36"	36"	-	BLK/FYG BLK/R/W	S1-1 R7-2 MOD.	1	10.5	10.5	BAND SIGNS TO CARLYLE POLE #20
2		102, 104, 105, 106, 110, 202	U-POST-13	-	24"	30"	-	BLK/W	R4-7	6	30	5	
3		103	-	-	12"	18"	-	BLK/R/W	R7-2 MOD.	1	1.5	1.5	BAND SIGN TO CARLYLE POLE #26
4		201	U-POST-13	-	36"	48"	-	BLK/R/W	R1-5 (R)	1	12'	12'	
5		107, 108, 109	U-POST-8	-	18"	18"	-	R/BLK	OM4-2	3	6.75	2.25	
6		112	U-POST-13	-	30"	30"	-	BLK/FY	W14-1	1	6.25	6.25	
7		111	-	-	30"	30"	-	BLK/R/W	R10-15	1	6.25	6.25	BAND SIGN TO CARLYLE POLE #19
8		113	-	-	30"	30"	-	BLK/W	R3-8	1	6.25	6.25	BAND SIGN TO CARLYLE POLE #24
9		114	U-POST-8	-	18"	18"	-	W/R	R1-1	1	2.25	2.25	



Project Name and Location
Clarendon Circle Improvements
 SIGNING & PAVEMENT MARKINGS PLAN
 Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: RB
 Drawn: RB
 Checked: SM
 Miss Utility Transmittal #: 5057

Filename: 33_Signing & Pave Marking.dwg
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 3 - Clarendon Circle\ADDC\33\ClarendonPlan
 Plotted: May 26, 2016
 Plotted by: marnone

Scale: _____
 Hor.: 1" = 25'

Sheet **33A**



Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Project Name and Location

Clarendon Circle Improvements

MOT NOTES

Wilson Blvd. at Washington Blvd.

314-43513.D09S-S16.0000

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 34-35_MOT.dwg
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Plotted by: marnone
Date: May 26, 2016

Scale: N.T.S.

MOT GENERAL NOTES:

- IT IS NOT THE INTENT OF THE MAINTENANCE OF TRAFFIC PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN CONSTRUCTION, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND EXECUTE THE WORK IN ACCORDANCE WITH THIS TEMPORARY TRAFFIC CONTROL PLAN.
- TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, AND/OR AS DIRECTED BY THE PROJECT OFFICER.
- THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORK. THE SCHEDULE SHALL INDICATE THE DURATION OF ALL LANE OR SHOULDER CLOSURES. THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF PROCEEDING TO THE NEXT WORK SEGMENT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER OF PARKING RESTRICTION NEEDS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK FOR EACH SEGMENT. COUNTY PROJECT OFFICER SHALL RESTRICT PARKING BY CONTACTING DES - PERMITTING SECTION, 703-228-4798.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL EITHER MAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GUIDE TRAFFIC THROUGH WORK ZONES.
- THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF DRIVEWAY CLOSURE FOR APPROVAL BY THE PROJECT OFFICER. THE PROJECT OFFICER SHALL BE NOTIFIED A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF SUCH ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THE PROPERTY. THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY.
- ANY EXCAVATIONS WHICH ARE SPECIFICALLY APPROVED BY THE PROJECT OFFICER TO REMAIN OPEN PAST NORMAL WORKING HOURS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND AS APPROVED BY THE PROJECT OFFICER.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS, UNLESS OTHERWISE APPROVED IN THE PLANS.
- PEDESTRIAN TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH MUTCD.
- ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS.
- WHEN NECESSARY, PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDDLEBLOCK WORK SITES.
- PEDESTRIANS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.
- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY TRANSIT BUREAU, 703-228-3049, A MINIMUM OF 2 WEEKS PRIOR TO COMMENCEMENT OF WORK, IF TRANSIT IS AFFECTED.
- AT SIGNALIZED INTERSECTIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE DETECTION AT ALL TIMES DURING THE PROJECT. TRAFFIC SENSORS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION STATE PRIOR TO THE COMPLETION OF THIS PROJECT.
- WORK HOURS ARE RESTRICTED TO 9:00 AM TO 4:00 PM, MONDAY-FRIDAY, UNLESS APPROVED BY THE COUNTY PROJECT OFFICER IN WRITING.
- CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH ARE NOT APPLICABLE OR ARE IN CONFLICT WITH THE MOT PLAN.
- CONTRACTOR SHALL ERADICATE AND RE-STRIPE AS NECESSARY ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH OR DO NOT ALIGN WITH THE TEMPORARY PAVEMENT MARKINGS OR NEW TRAFFIC PATTERNS.
- CONTRACTOR SHALL ERADICATE ALL TEMPORARY PAVEMENT MARKING, INCLUDING TEMPORARY MARKED CROSSWALKS ONCE THE WORK AREA(S) ASSOCIATED WITH THE MARKINGS HAS BEEN COMPLETED.
- CONTRACTOR SHALL CONTACT ARLINGTON COUNTY DOT 3 BUSINESS DAYS PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
- CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR COVER ANY OTHER TRAFFIC CONTROL DEVICE UNLESS SPECIFIED ON THE PLANS OR APPROVED BY THE COUNTY PROJECT OFFICER IN WRITING.

SEQUENCE OF CONSTRUCTION NOTES:

PHASE I

- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.
- PLACE TEMPORARY TRAFFIC CONTROLS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- SHIFT AND MAINTAIN THE EB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE WILSON BLVD. INTERSECTION.
- SHIFT AND MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE 13TH ST N INTERSECTION.
- SHIFT AND MAINTAIN THE SB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING N IRVING ST.
- CONSTRUCT CURB AND GUTTER, ROADWAY AND SIDEWALK IN THE AREA BETWEEN WASHINGTON BLVD., WILSON BLVD. AND FAIRFAX DR.

PHASE II

- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.
 - PLACE TEMPORARY TRAFFIC CONTROLS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- PHASE II-A
- SHIFT AND MAINTAIN THE EB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE WITHIN THE NEWLY CONSTRUCTED PAVEMENT (PHASE I), APPROACHING AND THE WILSON BLVD. INTERSECTION, WHILE MAINTAINING TWO LANES FOR EB WASHINGTON BLVD. TRAFFIC EAST OF THE INTERSECTION.
 - SHIFT AND MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE N. WILSON/CLARENDON BLVD. INTERSECTION.
 - MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE 13TH ST. N. INTERSECTION.
 - CONSTRUCT THE MEDIAN BETWEEN WB AND EB WASHINGTON BLVD., WEST OF THE N. WILSON/CLARENDON BLVD. INTERSECTION.

PHASE II-B

- SHIFT AND MAINTAIN SB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE WASHINGTON BLVD. INTERSECTION.
- MAINTAIN THE SB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE 10TH ST. N. INTERSECTION.
- SHIFT AND MAINTAIN NB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE WASHINGTON BLVD. INTERSECTION.
- CONSTRUCT THE MEDIAN BETWEEN SB AND NB WILSON BLVD..

PHASE II-C

- SHIFT AND MAINTAIN WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE N. WILSON/CLARENDON BLVD. INTERSECTION, WHILE MAINTAINING TWO LANES FOR WB WASHINGTON BLVD. TRAFFIC WEST OF THE INTERSECTION.
- SHIFT AND MAINTAIN EB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE N. WILSON/CLARENDON BLVD. INTERSECTION.
- MAINTAIN THE EB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE N. HUDSON ST. INTERSECTION.
- CONSTRUCT THE MEDIAN BETWEEN WB AND EB WASHINGTON BLVD., EAST OF THE N. WILSON/CLARENDON BLVD. INTERSECTION.

PHASE III

- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.
- PLACE TEMPORARY TRAFFIC CONTROLS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.

PHASE III-A

- SHIFT AND MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE WILSON BLVD. INTERSECTION.
- MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE 13TH ST. N. INTERSECTION.
- SHIFT AND MAINTAIN THE SB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE WASHINGTON BLVD. INTERSECTION, WHILE MAINTAINING TWO LANES SOUTH OF THE INTERSECTION.
- CONSTRUCT THE CURB AND GUTTER, ROADWAY AND SIDEWALK IN THE NORTHWEST QUADRANTS BETWEEN WASHINGTON BLVD., WILSON BLVD. AND N. IRVING ST..

PHASE III-B

- MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE WILSON BLVD. INTERSECTION, WHILE MAINTAINING TWO LANES WEST OF THE INTERSECTION.
- SHIFT AND MAINTAIN THE NB WILSON/CLARENDON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE WASHINGTON BLVD. INTERSECTION.
- MAINTAIN NB WILSON/CLARENDON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE N. HIGHLAND ST. INTERSECTION.
- CONSTRUCT THE CURB AND GUTTER, ROADWAY AND SIDEWALK IN THE NORTHEAST QUADRANT BETWEEN CLARENDON BLVD. AND WASHINGTON BLVD..

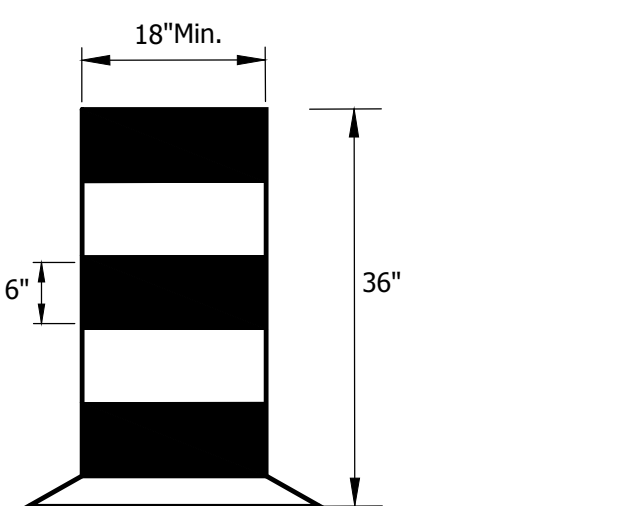
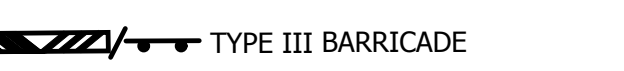
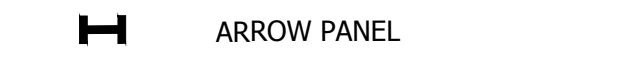
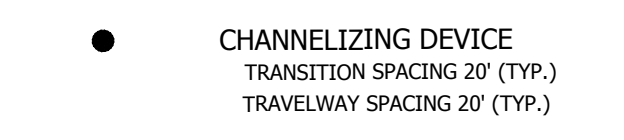
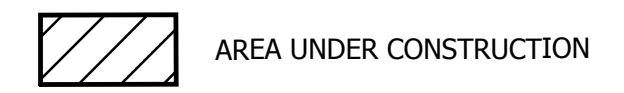
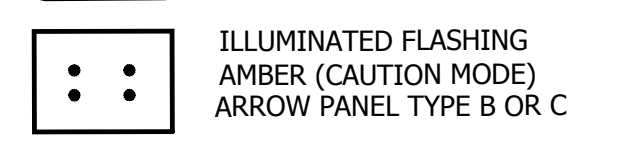
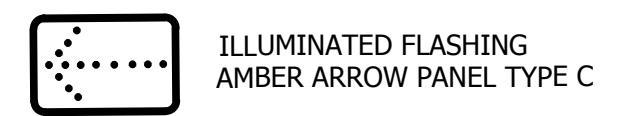
PHASE IV

- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.
- PLACE TEMPORARY TRAFFIC CONTROLS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- SHIFT AND MAINTAIN THE SB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE WASHINGTON BLVD. INTERSECTION.
- SHIFT AND MAINTAIN THE NB WILSON/CLARENDON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE WASHINGTON BLVD. INTERSECTION.
- SHIFT AND MAINTAIN THE WB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE WILSON/CLARENDON BLVD. INTERSECTION, WHILE MAINTAINING TWO LANES WEST OF THE INTERSECTION.
- CONSTRUCT THE CURB AND GUTTER, ROADWAY AND SIDEWALK IN THE MEMORIAL AREA BETWEEN WILSON AND CLARENDON BLVD.

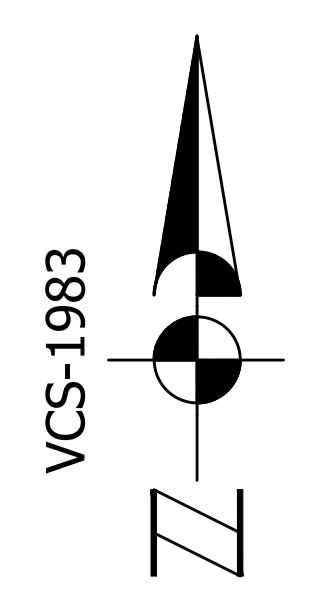
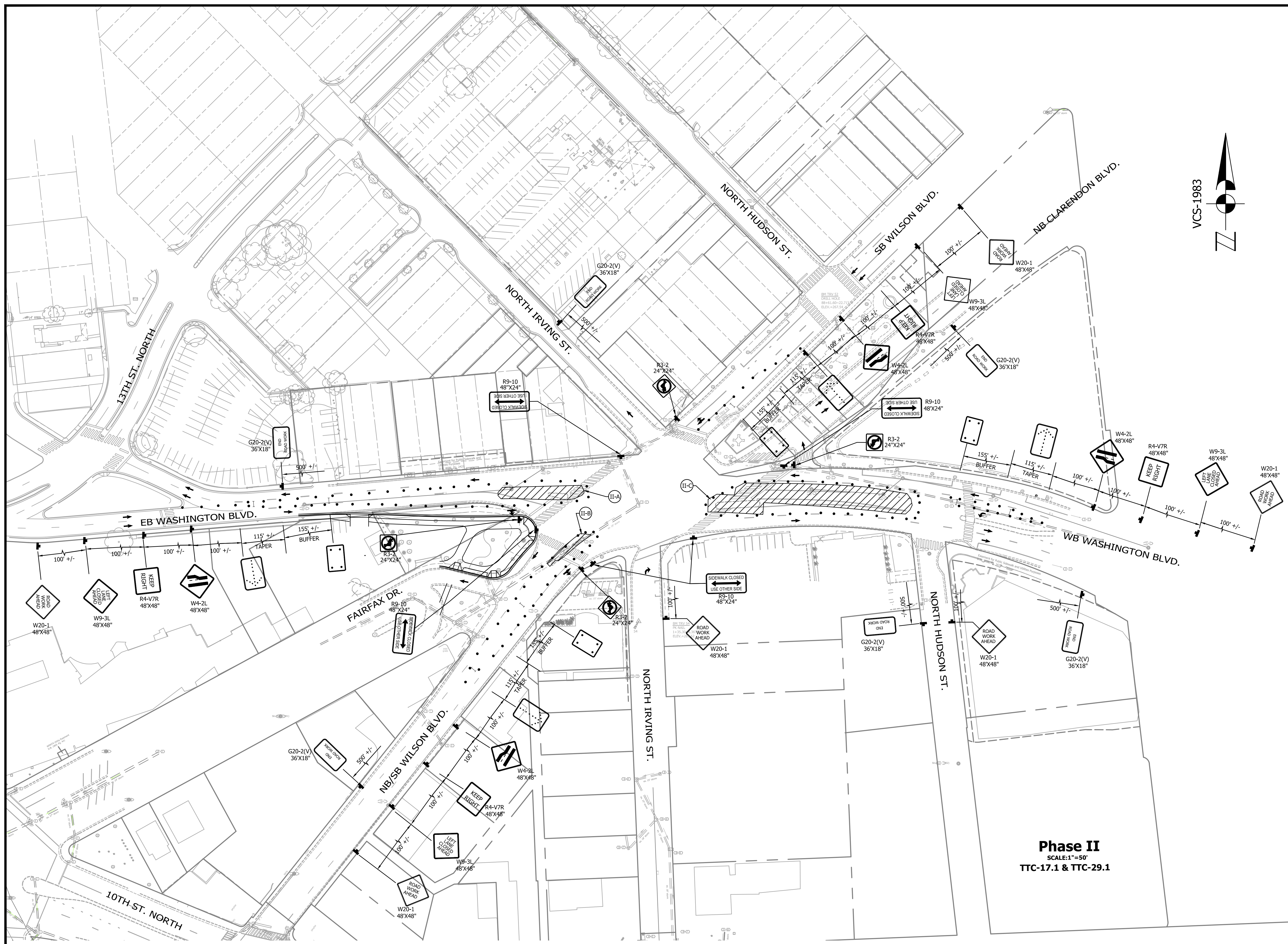
PHASE V

- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.
- PLACE TEMPORARY TRAFFIC CONTROLS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- SHIFT AND MAINTAIN EB WASHINGTON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING AND THRU THE WILSON/CLARENDON BLVD. INTERSECTION.
- SHIFT AND MAINTAIN THE NB WILSON BLVD. TRAFFIC IN A SINGLE LANE APPROACHING THE WASHINGTON BLVD. INTERSECTION.
- CLOSE THE SOUTH PORTION OF N IRVING ST.
- CONSTRUCT THE CURB AND GUTTER, ROADWAY, SIDEWALK AND SWM FACILITY IN THE SOUTHEAST QUADRANT BETWEEN WILSON BLVD., WASHINGTON BLVD. AND N. HUDSON ST., AS WELL AS THE CURB EXTENSION IMPROVEMENTS IN THE SOUTHEAST QUADRANT OF THE WASHINGTON BLVD. AND N. HUDSON ST. INTERSECTION.
- PERFORM FINAL MILLING AND OVERLAY THROUGH TEMPORARY LANE CLOSURES.
- CONSTRUCT FINAL PAVEMENT SURFACE, SIGNING AND PAVEMENT MARKING AND OPEN TO TRAFFIC.

LEGEND:



GROUP 2 CHANNELIZING DEVICE



Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Project Name and Location
**Clarendon Circle
Improvements**

MOT PHASE II
Wilson Blvd. at Washington Blvd.

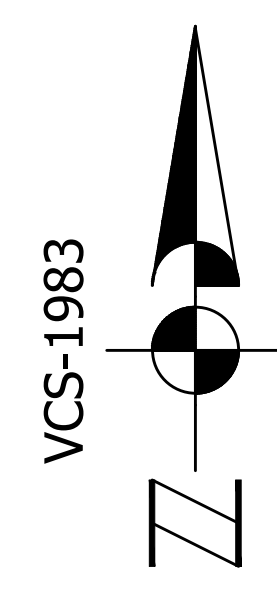
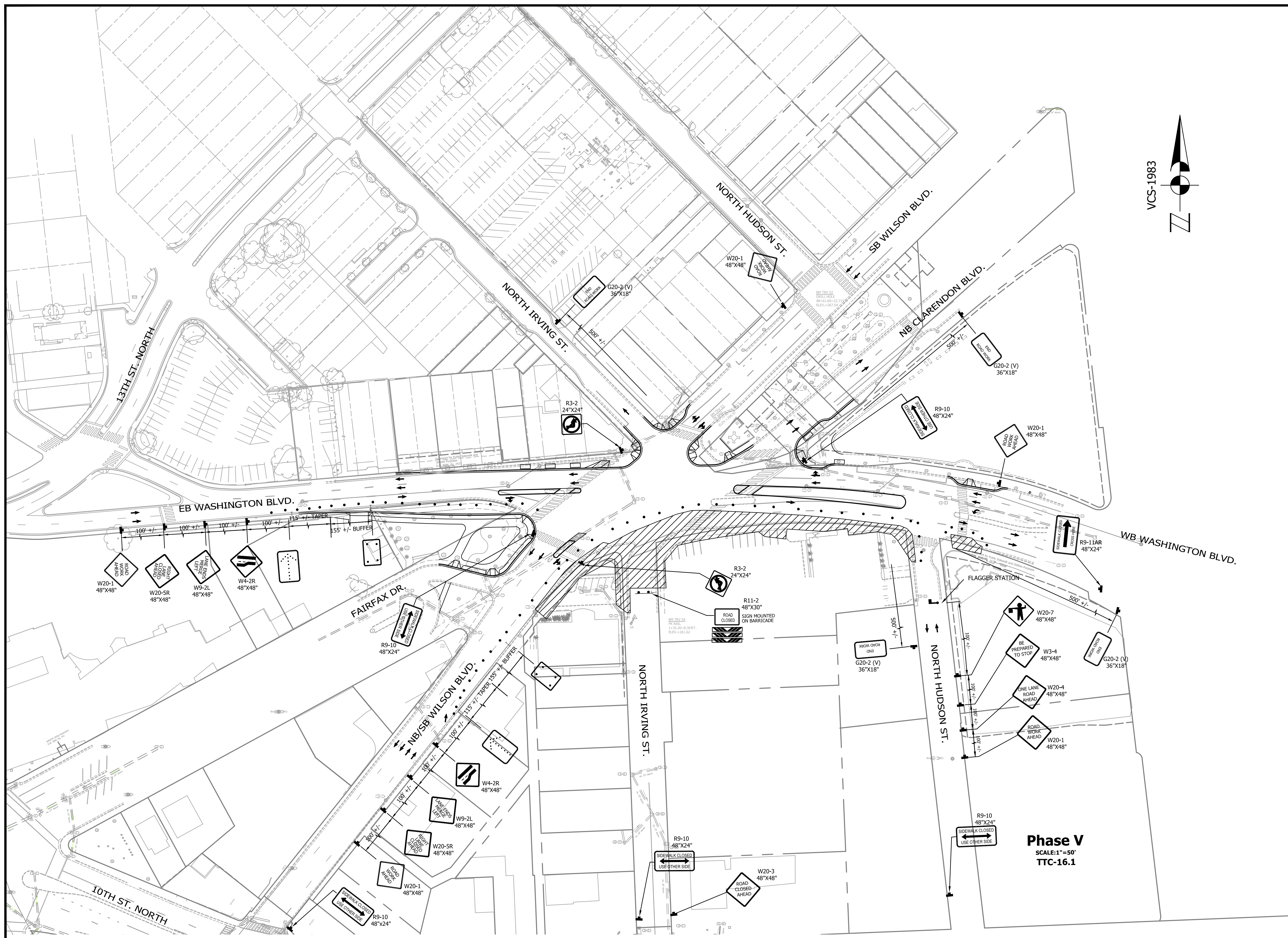
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Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

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3 - Clarendon Circle\2016\11162\36\Clarendon\Plan
Plotted: May 26, 2016
Plotted by: marnone

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Phase II
SCALE: 1" = 50'
TTC-17.1 & TTC-29.1



Seal

Approvals Date

DESIGN TEAM SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

Revisions Date

Project Name and Location
Clarendon Circle Improvements
MOT PHASE V
Wilson Blvd. at Washington Blvd.

Designed: MJA
Drawn: MJA
Checked: MRM
Miss Utility Transmittal #: 5057

Filename: 39_MOT.dwg
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3 - Clarendon Circle\2016\Clarendon\Plan
Plotted: May 26, 2016
Plotted by: marnone

Scale: Hor.: 1" = 50'

Phase V
SCALE: 1" = 50'
TTC-16.1

314-43513.DWG/S16.0000

ABBREVIATIONS

ADJ	ADJACENT
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
B&B	BALLED AND BURLAPPED
BC	BOTTOM OF CURB
BVC	BEGINNING OF VERTICAL CURVE
BR	BOTTOM OF RAMP
BW/BOW	BOTTOM OF WALL
CAL	CALIPER
CAB	CATCH BASIN
CIP	CAST IN PLACE
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CL	CENTERLINE
CONT	CONTINUOUS
CW	CONCRETE WALK
D	DEGREE OF CURVATURE
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
EJ	EXPANSION JOINT
EP	EDGE OF PAVEMENT
EQ	EQUAL
ETR	EXISTING TO REMAIN
EVC	END OF VERTICAL CURVE
EW	END WALL
EX	EXISTING
EX PA	EXISTING PLANTING AREA
FCP	FOREST CONSERVATION PLAN
FG	FINISHED GRADE (PAVED AREA)
FL	FLOW LINE
FSD	FOREST STAND DELINEATION
FT	FOOT/FEET
FTG	FOOTING
G	GRADE
HOR	HORIZONTAL
HP	HIGHPOINT
ID	INSIDE DIAMETER
IN	INCH
INV	INVERT
L	LENGTH OF CURVE
LArch	LANDSCAPE ARCHITECT
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
LP	LOW POINT
M	METER
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N	NORTH
NTS	NOT TO SCALE
OAE	OR APPROVED EQUAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
PA	PLANTING AREA
PC	POINT OF CURVATURE
PL	PROPERTY LINE
PT	POINT OF TANGENT
POB	POINT OF BEGINNING
PROP	PROPOSED
RAD	RADIUS
ROW	RIGHT-OF-WAY
S	SOUTH
SCTN	SECTION
SD	STORM DRAIN
SF	SQUARE FEET
T	TANGENT
TC	TOP OF CURB
TR	TOP OF RAMP
TW	TOP OF WALL
TPA	TREE PROTECTION AREA
TYP	TYPICAL
VAR	VARIABLE
VC	VERTICAL CURVE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
MISCELLANEOUS:	
@	AT
'	FEET
"	INCHES
#	NUMBER

GENERAL NOTES

DRAWINGS SHOW EXTENT, LOCATION, DIMENSIONS, RELATIONSHIPS AMONG VARIOUS PART, AND QUANTITY OF ITEMS. IN CASE OF CONFLICT THE SPECIFICATIONS SHALL GOVERN.

THE LARGER THE SCALE OF THE DRAWINGS, THE MORE PRECEDENCE: i.e. A 1 INCH PER FOOT SCALE DRAWING GOVERNS OVER A 10 FEET PER INCH DRAWING.

CONTRACTOR SHALL PROTECT FROM DAMAGE TO ALL EXISTING TREES INDICATED TO REMAIN.

CONTRACT INCLUDES ALL DEMOLITION REQUIRED TO COMPLETE JOB AND TO REMOVE AND TO DISPOSE OF ITEMS FROM SITE COMPLETELY IN ACCORDANCE WITH LOCAL LAWS. DO NOT BURN OR BURY ANY DEMOLITION ITEMS ON SITE. CONTRACTOR IS RESPONSIBLE FOR MAKING SITE VISITS TO DETERMINE AND VERIFY ALL DEMOLITION REQUIREMENTS PRIOR TO BIDDING.

THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE EXISTING ADJACENT FACILITIES AND STRUCTURES THAT ARE TO REMAIN. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION (UNLESS OTHERWISE INDICATED) TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER. ADJACENT STREETS AND SIDEWALKS SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE. ADEQUATE MEANS AND FACILITIES SHALL BE PROVIDED BY THE CONTRACTOR TO CLEAN TRUCKS AND OTHER EQUIPMENT LEAVING THE SITE.

THE EXISTING SURROUNDING FACILITIES ARE TO REMAIN IN OPERATION WHILE CONSTRUCTION WORK IS BEING DONE. ALL UTILITY WORK SHALL BE COORDINATED WITH THE OWNER AND LOCAL UTILITY COMPANIES AND SHALL BE PERFORMED IN AN EXPEDITIOUS MANNER.

UTILITIES SHOWN ON DRAWINGS ARE BASED ON PUBLISHED DATA AND ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR MUST LOCATE AND VERIFY ALL SUCH INFORMATION, INCLUDING INFORMATION NOT SHOWN ON PLANS, BY CONTACTING THE INDIVIDUAL UTILITY COMPANY AND INVESTIGATING THE SITE TO DETERMINE THE EXACT LOCATION OF RESPECTIVE UTILITY LINES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE PROJECT OWNER & THE UTILITY OWNER, DAMAGE TO ANY UTILITY CAUSED BY HIS WORK. HE SHALL IMMEDIATELY NOTIFY THE OWNER AND THE UTILITY OWNER OF ANY DAMAGE TO ANY UTILITY BY REASON OF HIS OPERATION.

DO NOT SCALE MEASUREMENTS FROM DRAWINGS. FOLLOW MEASUREMENTS AND DIMENSIONS PROVIDED ON DRAWINGS. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF DISCREPANCIES BETWEEN PLAN DIMENSIONS AND ACTUAL DIMENSIONS ARE ENCOUNTERED. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO VERTICAL AND HORIZONTAL START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION.

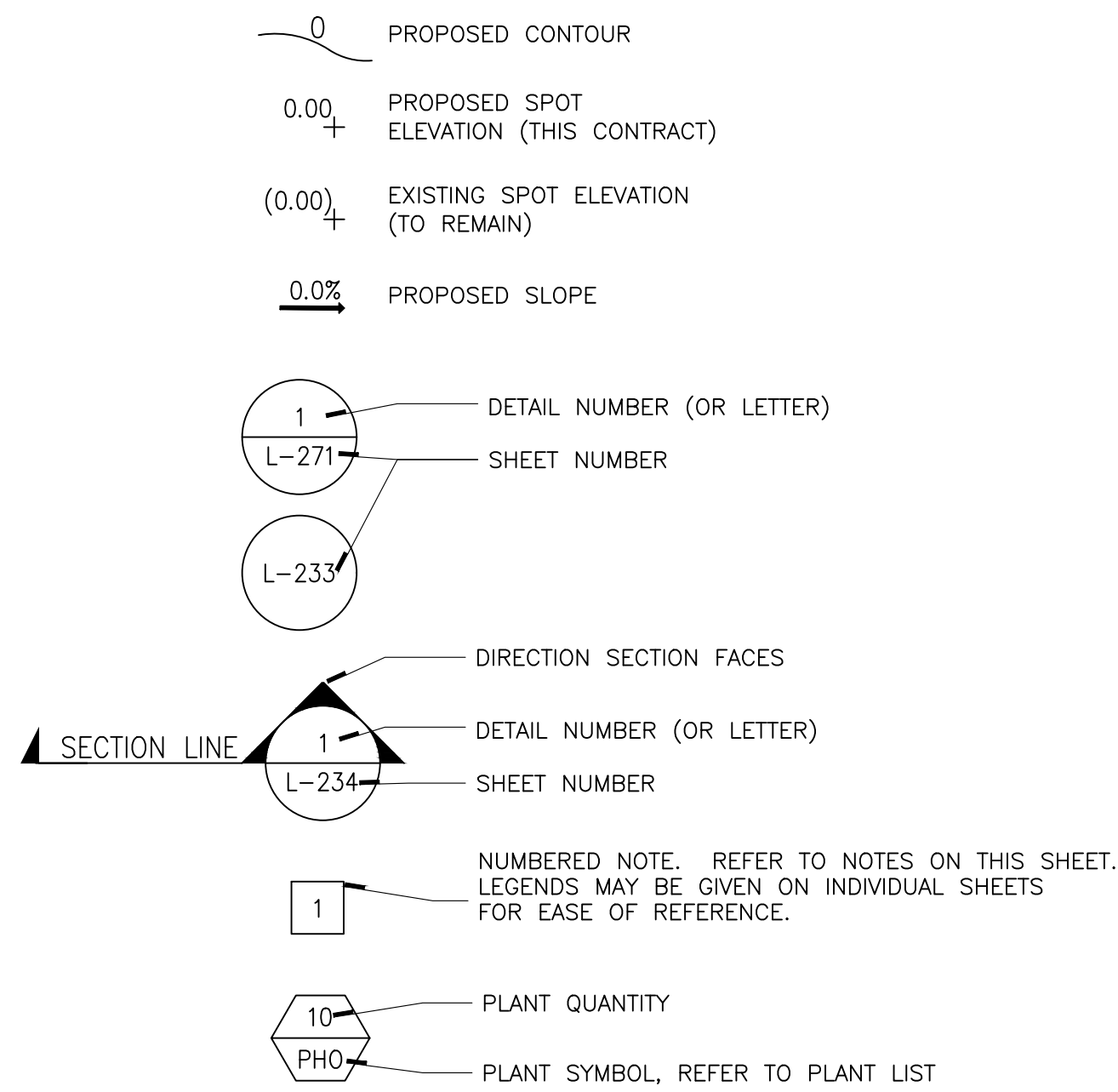
POSITIVE DRAINAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PONDING OR STANDING WATER WILL NOT BE PERMITTED. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM CONTRACTING OFFICER WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND CORRECTIONS SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.

SEED ALL AREAS WITHIN THE LIMITS OF DISTURBANCE THAT ARE NOT PAVED, PLANTED, MULCHED OR SPECIFICALLY NOTED AS "TURF". SEED AND STABILIZE, PER THE SPECIFICATIONS, ALL GRADED SLOPES, UNLESS SPECIFICALLY NOTED AS "TURF". RESTORE, PER THE SPECIFICATIONS, ALL EXISTING LAWNS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.

LANDSCAPE SHEET INDEX

- 40 - LANDSCAPE AND HARDSCAPE GENERAL NOTES
- 40A - OVERALL HARDSCAPE REFERENCE PLAN
- 40B - HARDSCAPE ENLARGEMENT PLAN
- 40C - HARDSCAPE ENLARGEMENT PLAN
- 40D - HARDSCAPE ENLARGEMENT PLAN
- 40E - OVERALL PLANTING REFERENCE PLAN
- 40F - PLANTING ENLARGEMENT PLAN
- 40G - PLANTING ENLARGEMENT PLAN
- 40H - PLANTING ENLARGEMENT PLAN
- 40I - PLANTING SCHEDULE
- 40J - HARDSCAPE DETAILS
- 40K - HARDSCAPE DETAILS
- 40L - HARDSCAPE DETAILS
- 40M - PLANTING DETAILS

REFERENCE SYMBOLS



KEYED NOTES

SITE UTILITIES

- 100 UNDERGROUND UTILITIES -REF CIVIL DWGS
- 101 UTILITY STRUCTURES -REF CIVIL DWGS
- 102 STREET LIGHTING -REF CIVIL DWGS

SITE FEATURES

- 151 BUILDING FOOTPRINT
- 152 BUILDING OVERHANG
- 153 EXISTING PARKING AREA
- 154 EXISTING MONUMENT
- 155 EXISTING MONUMENT WALL
- 156 EXISTING STREET TREE PLANTER
- 157 EXISTING CAPITAL BIKESHARE
- 158 STONE RIP-RAP SWALE -REF CIVIL DWGS

PAVING AND SURFACING

- 200 EXISTING PAVING TO REMAIN
- 201 P.I.P CONCRETE PAVING 1 40J
- 202 P.I.P CONCRETE PAVING WITH BRICK SOLDIER COURSE BAND 2 40J
- 203 PRECAST CONCRETE PAVER -TYPE 1 3 40J
- 204 PRECAST CONCRETE PAVER -TYPE 2 4 40J
- 205 PEDESTRIAN CURB RAMP -REF CIVIL DWGS
- 206 VEHICULAR CURB CUT -REF CIVIL DWGS
- 207 BRICK PAVING 1 40K
- 208 FLEXIBLE POROUS PAVING 2 40K
- 209 TRUNCATED DOME PAVING 3 40K

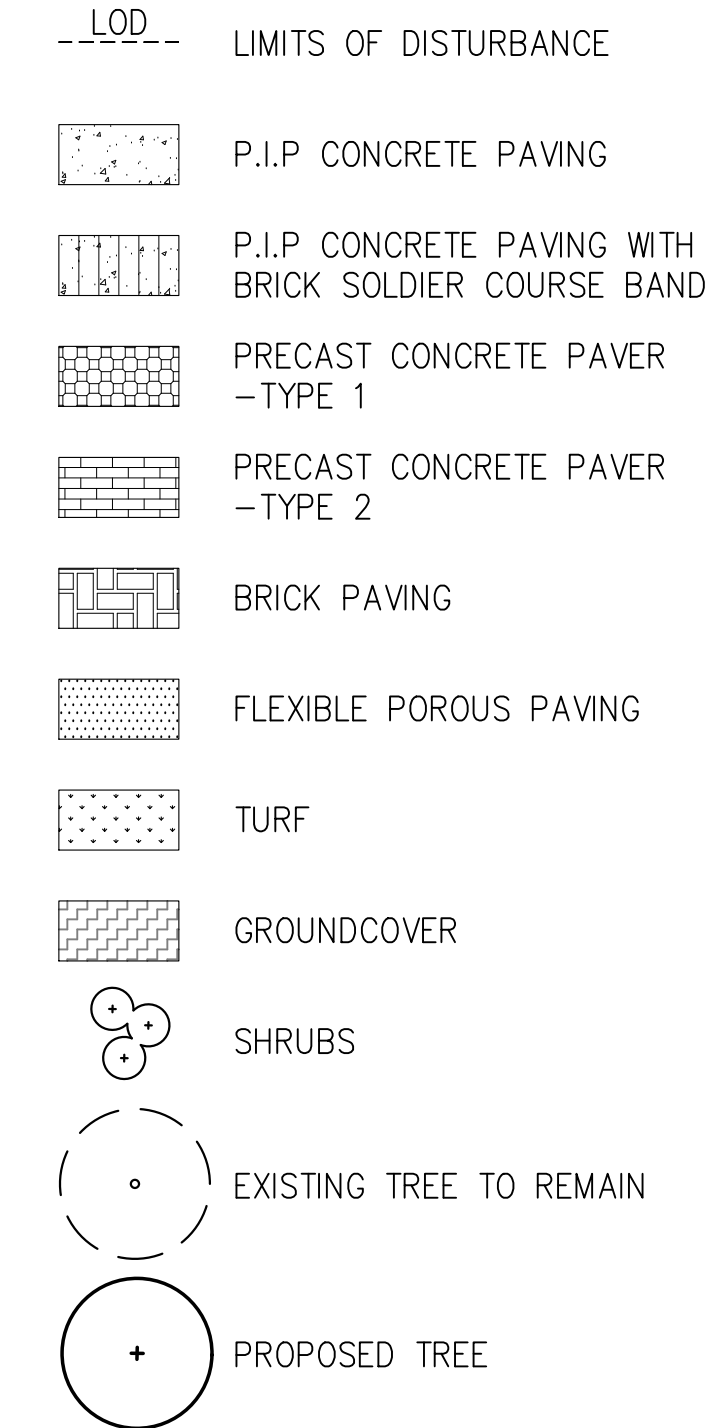
SITE FURNISHINGS

- 300 BENCH 1 40L
- 301 BICYCLE RACK 3 40L
- 302 LITTER RECEPTACLE 2 40L

SITE PLANTING

- 400 TREE PLANTING AREA -REF PLANTING PLANS
- 401 SHRUB / GROUNDCOVER PLANTING -REF PLANTING PLANS
- 402 TURF PLANTING -REF PLANTING PLANS
- 403 STAKED EDGE RESTRAINT -BED DIVIDER

SYMBOLS LEGEND



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 Arlington, VA 22201
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 Fax: 703.228.3606

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

ENGINEERING BUREAU CHIEF

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions Date

Project Name and Location

Clarendon Circle
 Intersection Street Improvements
LANDSCAPE & HARDSCAPE PLAN
 Wilson Blvd. at Washington Blvd.

314-43513.DWG\$S16.0000

Designed: DS / KF
 Drawn: D. Smith
 Checked: K. Fisher
 Miss Utility Transmittal #: 5057

Filename: 42631-L-NOTES.dwg
 Path: P:\Clarendon Circle Intersection Street Improvements
 426317 CAD
 Plotted: May 25, 2016
 Plotted by: DustinS

Scale: N/A

Sheet

Seal

Approvals _____ Date _____

DESIGN TEAM SUPERVISOR _____

ENGINEERING BUREAU CHIEF _____

WATER, SEWER STREETS BUREAU CHIEF _____

TRANSPORTATION DIRECTOR _____

Revisions _____ Date _____

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314-43513.DWG/S.16.0000

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Drawn: D. Smith
Checked: K. Fisher
Miss Utility Transmittal #: 5057

Filename: 42631-L-PLAN-MATL.dwg
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Plotted: May 25, 2016
Plotted by: DustinS

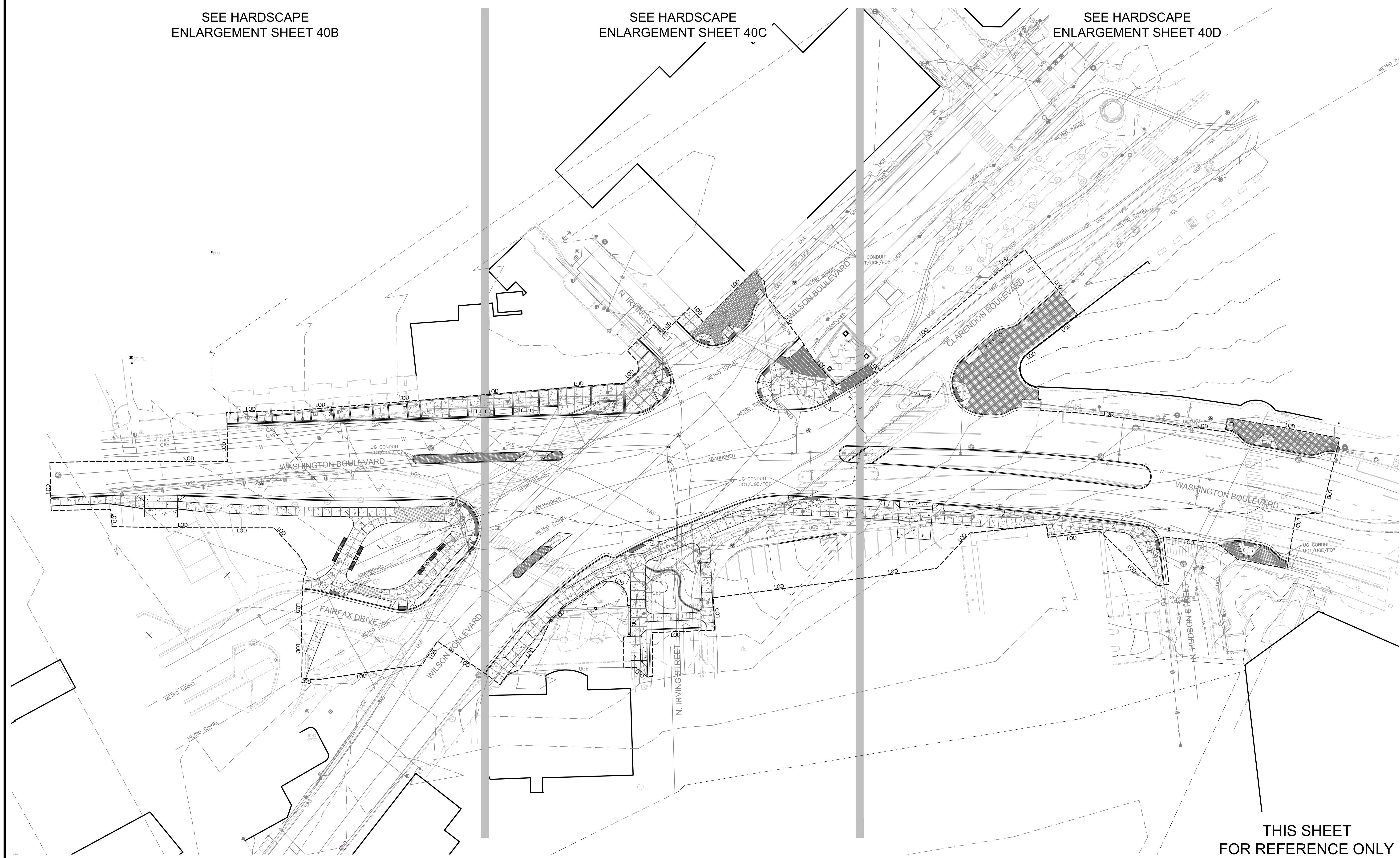
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Sheet **40A**

SEE HARDSCAPE
ENLARGEMENT SHEET 40B

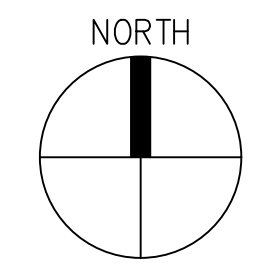
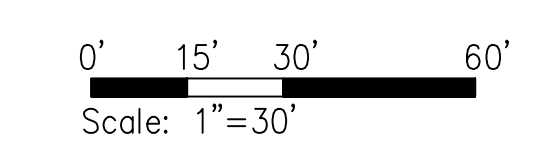
SEE HARDSCAPE
ENLARGEMENT SHEET 40C

SEE HARDSCAPE
ENLARGEMENT SHEET 40D

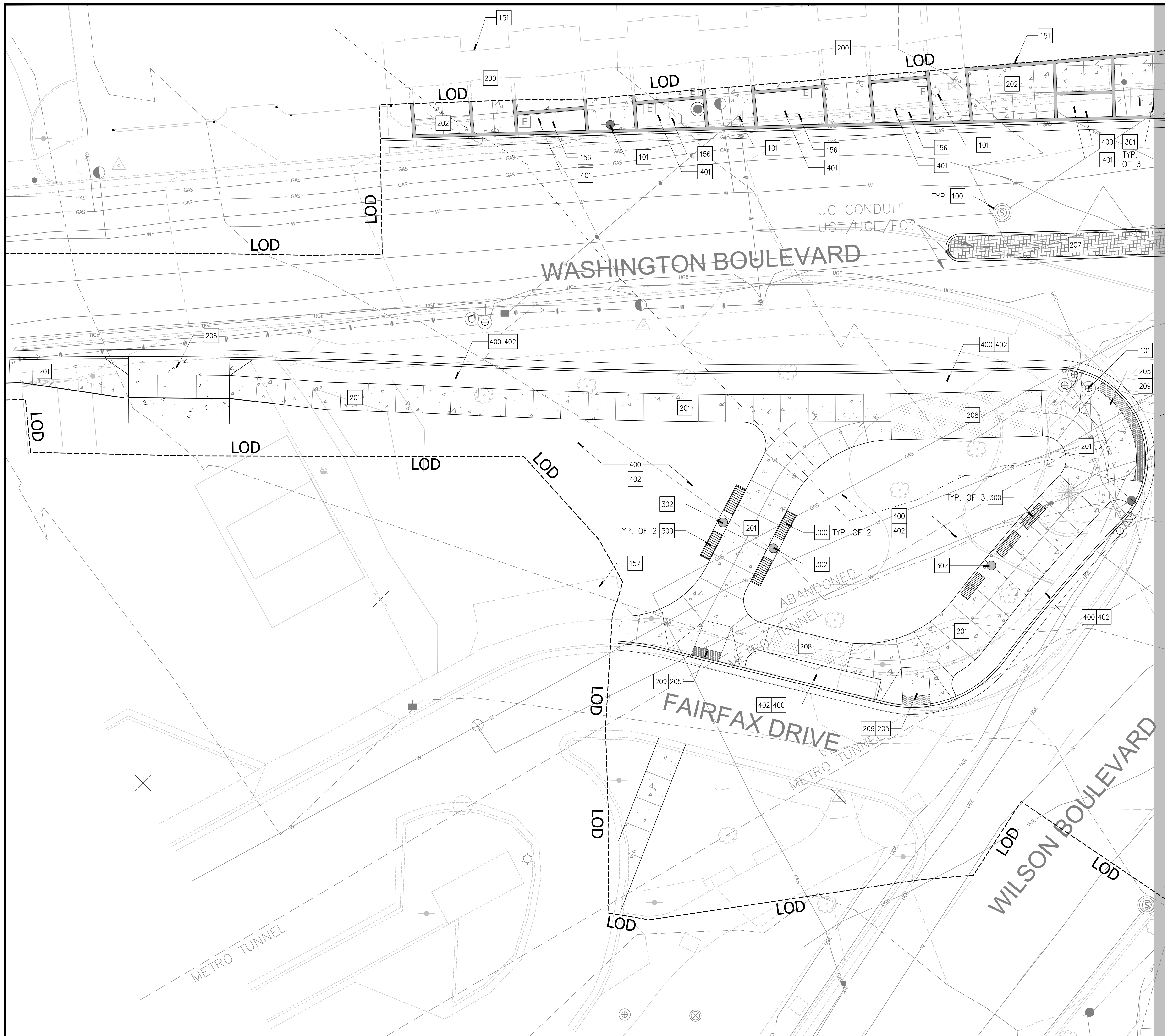


SYMBOLS LEGEND

--- LOD --- LIMITS OF DISTURBANCE



**THIS SHEET
FOR REFERENCE ONLY**



MATCHLINE - SEE SHEET 40C

KEYED NOTES

SITE UTILITIES

- 100 UNDERGROUND UTILITIES
-REF CIVIL DWGS
- 101 UTILITY STRUCTURES
-REF CIVIL DWGS

SITE FEATURES

- 151 BUILDING FOOTPRINT
- 156 EXISTING STREET TREE PLANTER
- 157 EXISTING CAPITAL BIKESHARE
- STONE CURB, BRICK SWALE
- PAVING AND SURFACING**

- 200 EXISTING PAVING TO REMAIN
- 201 P.I.P CONCRETE PAVING 1
40J
- 202 P.I.P CONCRETE PAVING WITH BRICK SOLDIER COURSE BAND 2
40J
- 205 PEDESTRIAN CURB RAMP
-REF CIVIL DWGS
- 206 VEHICULAR CURB CUT
-REF CIVIL DWGS
- 207 BRICK PAVING 1
40K
- 208 FLEXIBLE POROUS PAVING 2
40K
- 209 TRUNCATED DOME PAVING 3
40K

SITE FURNISHINGS

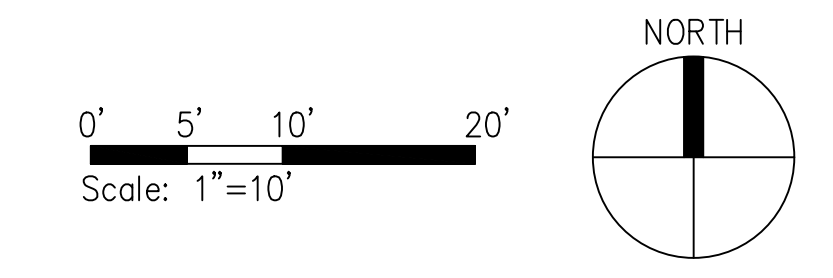
- 300 BENCH 1
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- 301 BICYCLE RACK 3
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- 302 LITTER RECEPTACLE 2
40L

SITE PLANTING

- 400 TREE PLANTING AREA
-REF PLANTING PLANS
- 401 SHRUB / GROUNDCOVER PLANTING
-REF PLANTING PLANS
- 402 TURF PLANTING
-REF PLANTING PLANS

SYMBOLS LEGEND

- LOD - LIMITS OF DISTURBANCE
- P.I.P CONCRETE PAVING
- P.I.P CONCRETE PAVING WITH BRICK SOLDIER COURSE BAND
- FLEXIBLE POROUS PAVING



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Seal

Approvals	Date
DESIGN TEAM SUPERVISOR	
ENGINEERING BUREAU CHIEF	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

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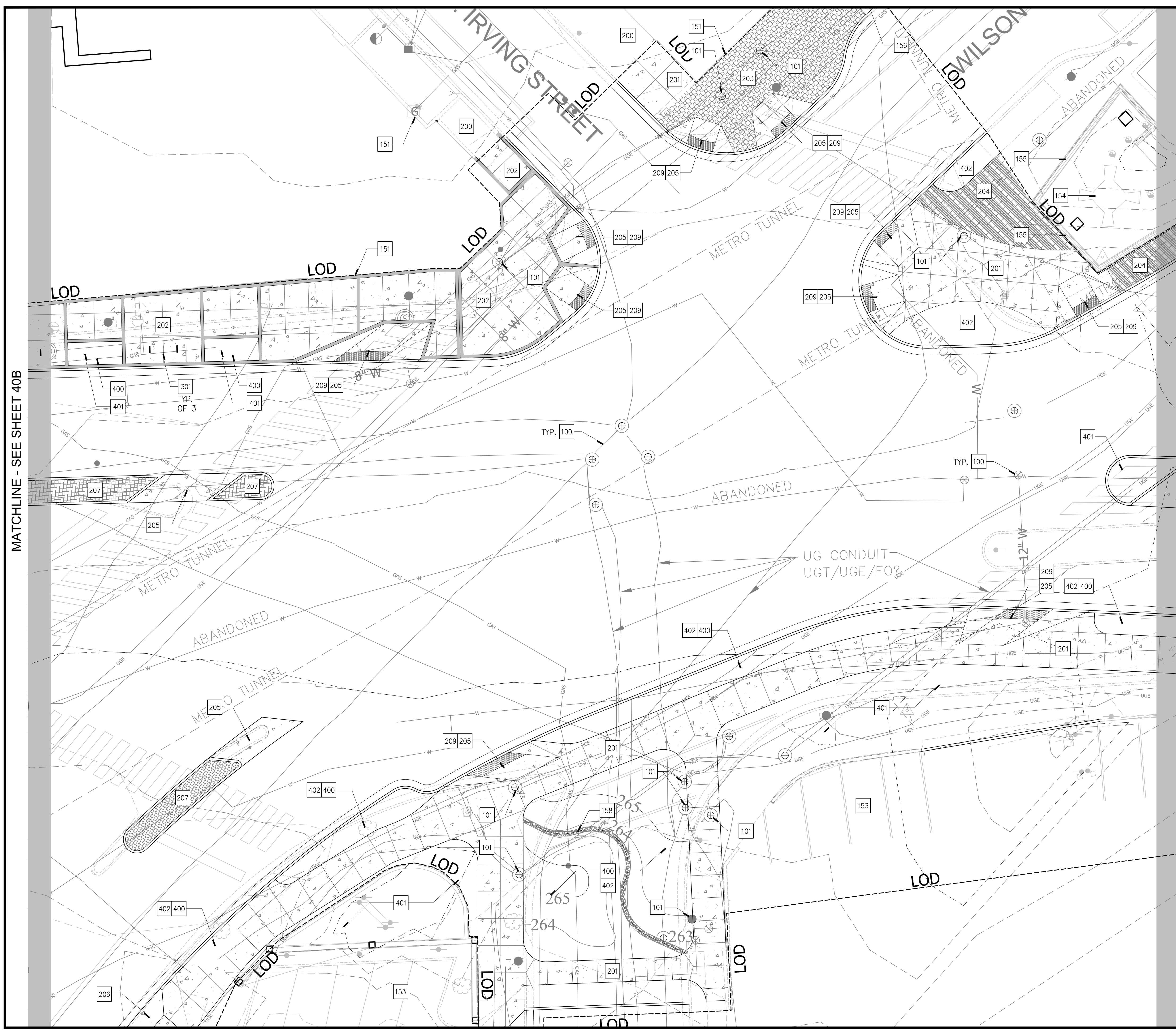
Designed: DS / KF
Drawn: D. Smith
Checked: K. Fisher
Miss Utility Transmittal #: 5057

Filename: 42631-L-PLAN-MATL.dwg
Path: P:\Clarendon Circle Intersection Street Improvements\426317 CAD
Plotted: May 25, 2016
Plotted by: DustinS

Scale: 1"=10'

MATCHLINE - SEE SHEET 40B

MATCHLINE - SEE SHEET 40D



KEYED NOTES

SITE UTILITIES

- 100 UNDERGROUND UTILITIES -REF CIVIL DWGS
- 101 UTILITY STRUCTURES -REF CIVIL DWGS

SITE FEATURES

- 151 BUILDING FOOTPRINT
- 154 EXISTING MONUMENT
- 155 EXISTING MONUMENT WALL
- 156 EXISTING STREET TREE PLANTER
- 158 STONE RIP-RAP SWALE -REF CIVIL DWGS

PAVING AND SURFACING

- 200 EXISTING PAVING TO REMAIN
- 201 P.I.P CONCRETE PAVING (1/40J)
- 202 P.I.P CONCRETE PAVING WITH BRICK SOLDIER COURSE BAND (2/40J)
- 203 PRECAST CONCRETE PAVER -TYPE 1 (3/40J)
- 204 PRECAST CONCRETE PAVER -TYPE 2 (4/40J)
- 205 PEDESTRIAN CURB RAMP -REF CIVIL DWGS
- 206 VEHICULAR CURB CUT -REF CIVIL DWGS
- 207 BRICK PAVING (1/40K)
- 209 TRUNCATED DOME PAVING (3/40K)

SITE FURNISHINGS

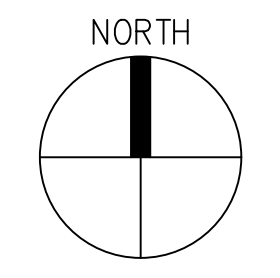
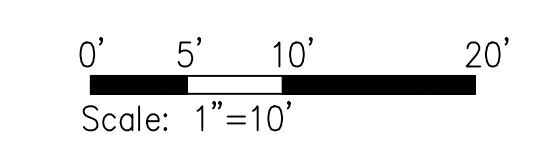
- 301 BICYCLE RACK (3/40L)
- 302 LITTER RECEPTACLE (2/40L)

SITE PLANTING

- 400 TREE PLANTING AREA -REF PLANTING PLANS
- 401 SHRUB / GROUNDCOVER PLANTING -REF PLANTING PLANS
- 402 TURF PLANTING -REF PLANTING PLANS

SYMBOLS LEGEND

- LOD LIMITS OF DISTURBANCE
- P.I.P CONCRETE PAVING
- P.I.P CONCRETE PAVING WITH BRICK SOLDIER COURSE BAND
- PRECAST CONCRETE PAVER -TYPE 1
- PRECAST CONCRETE PAVER -TYPE 2
- BRICK PAVING



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Seal

Approvals	Date
DESIGN TEAM SUPERVISOR	
ENGINEERING BUREAU CHIEF	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date

Project Name and Location
Clarendon Circle
 Intersection Street Improvements
LANDSCAPE & HARDSCAPE PLAN
 Wilson Blvd. at Washington Blvd.

Designed: DS / KF
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 Checked: K. Fisher
 Miss Utility Transmittal #: 5057

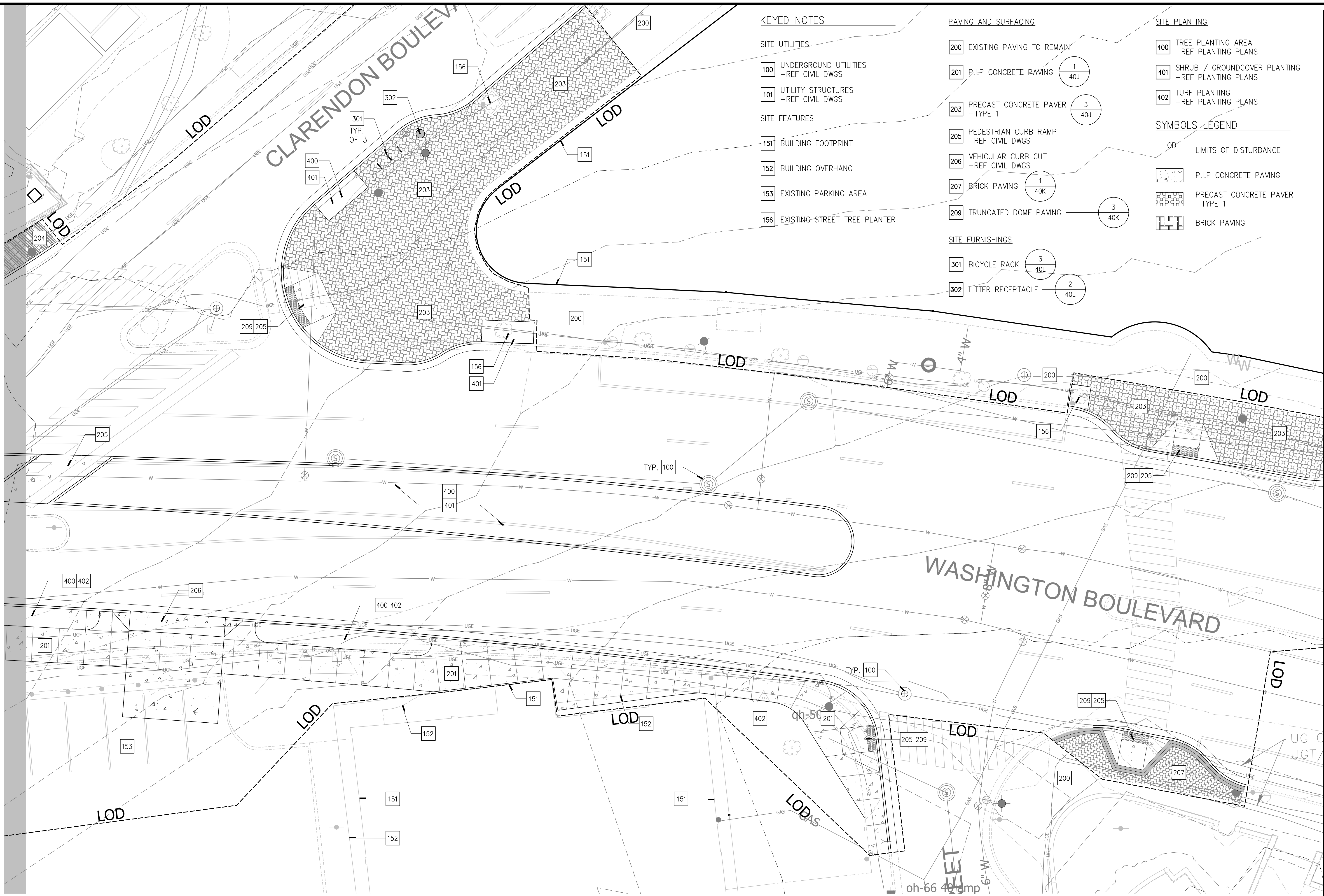
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 Plotted: May 25, 2016
 Plotted by: DustinS

Scale: 1"=10'

Sheet **40C**

314-43513.DWG/SJ16.0000

MATCHLINE - SEE SHEET 40C



KEYED NOTES

SITE UTILITIES

- 100 UNDERGROUND UTILITIES -REF CIVIL DWGS
- 101 UTILITY STRUCTURES -REF CIVIL DWGS

SITE FEATURES

- 151 BUILDING FOOTPRINT
- 152 BUILDING OVERHANG
- 153 EXISTING PARKING AREA
- 156 EXISTING STREET TREE PLANTER

PAVING AND SURFACING

- 200 EXISTING PAVING TO REMAIN
- 201 P.I.P. CONCRETE PAVING
- 203 PRECAST CONCRETE PAVER -TYPE 1
- 205 PEDESTRIAN CURB RAMP -REF CIVIL DWGS
- 206 VEHICULAR CURB CUT -REF CIVIL DWGS
- 207 BRICK PAVING
- 209 TRUNCATED DOME PAVING

SITE FURNISHINGS

- 301 BICYCLE RACK
- 302 LITTER RECEPTACLE

SITE PLANTING

- 400 TREE PLANTING AREA -REF PLANTING PLANS
- 401 SHRUB / GROUNDCOVER PLANTING -REF PLANTING PLANS
- 402 TURF PLANTING -REF PLANTING PLANS

SYMBOLS LEGEND

- LOD LIMITS OF DISTURBANCE
- P.I.P. CONCRETE PAVING
- PRECAST CONCRETE PAVER -TYPE 1
- BRICK PAVING



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WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

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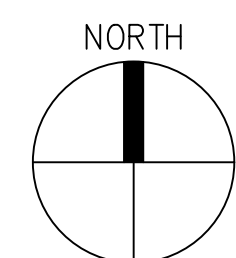
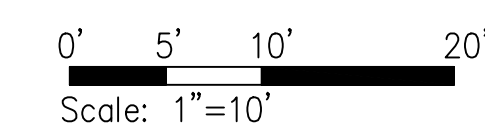
Designed: DS / KF
Drawn: D. Smith
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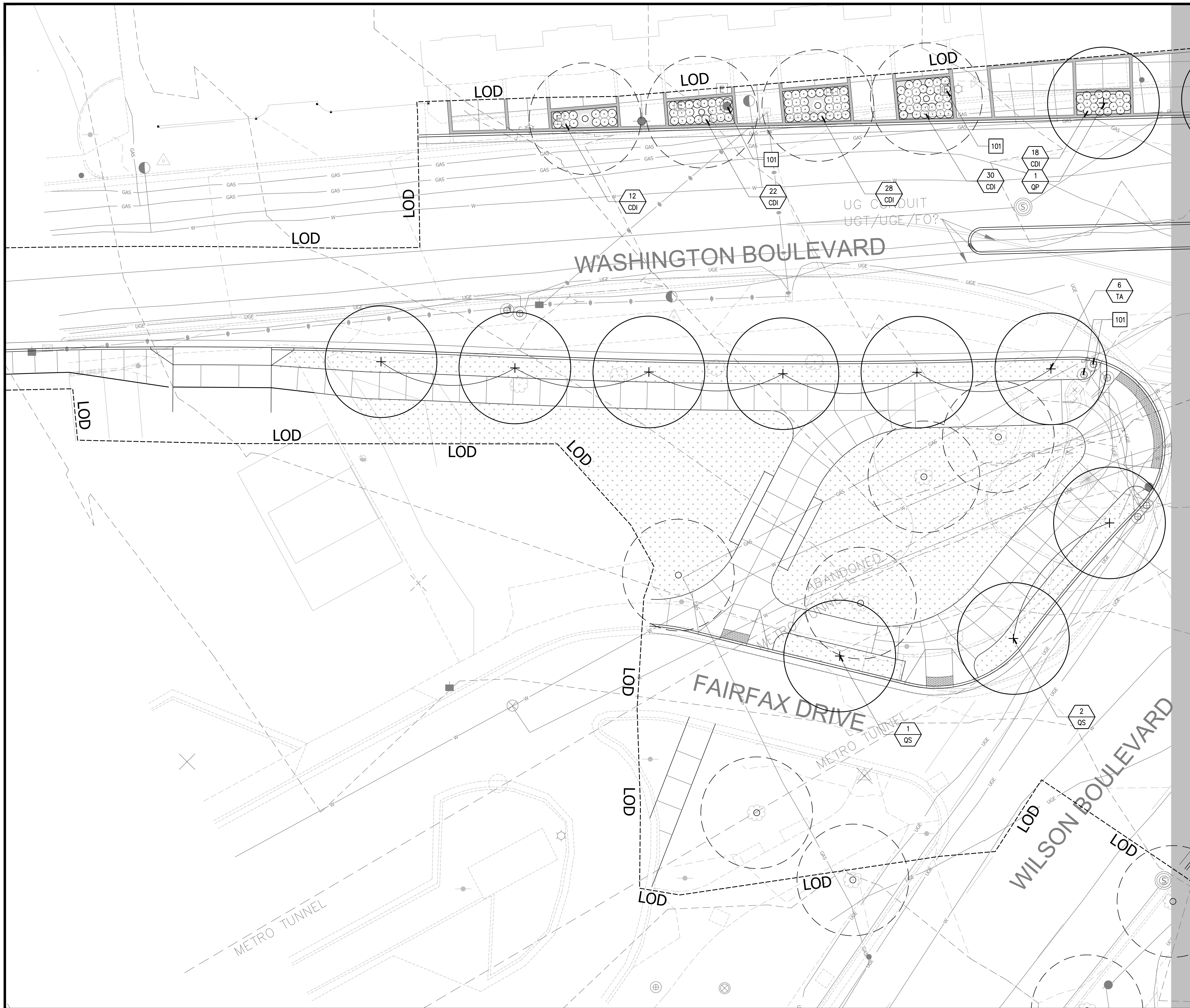
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Sheet

40D



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KEYED NOTES

SITE UTILITIES

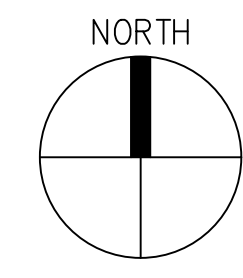
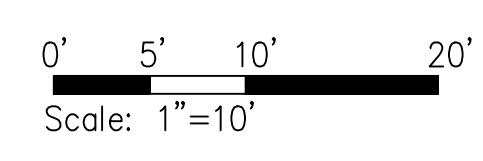
101 UTILITY STRUCTURES
-REF CIVIL DWGS

SYMBOLS LEGEND

- LOD - LIMITS OF DISTURBANCE
- [Pattern] TURF
- [Pattern] GROUNDCOVER
- [Symbol] SHRUBS
- [Symbol] EXISTING TREE TO REMAIN
- [Symbol] PROPOSED TREE

NOTE:
REFER TO SHEET 40I FOR
LANDSCAPE PLANTING SCHEDULE

MATCHLINE - SEE SHEET 40G



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DESIGN TEAM SUPERVISOR _____
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TRANSPORTATION DIRECTOR _____

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Project Name and Location
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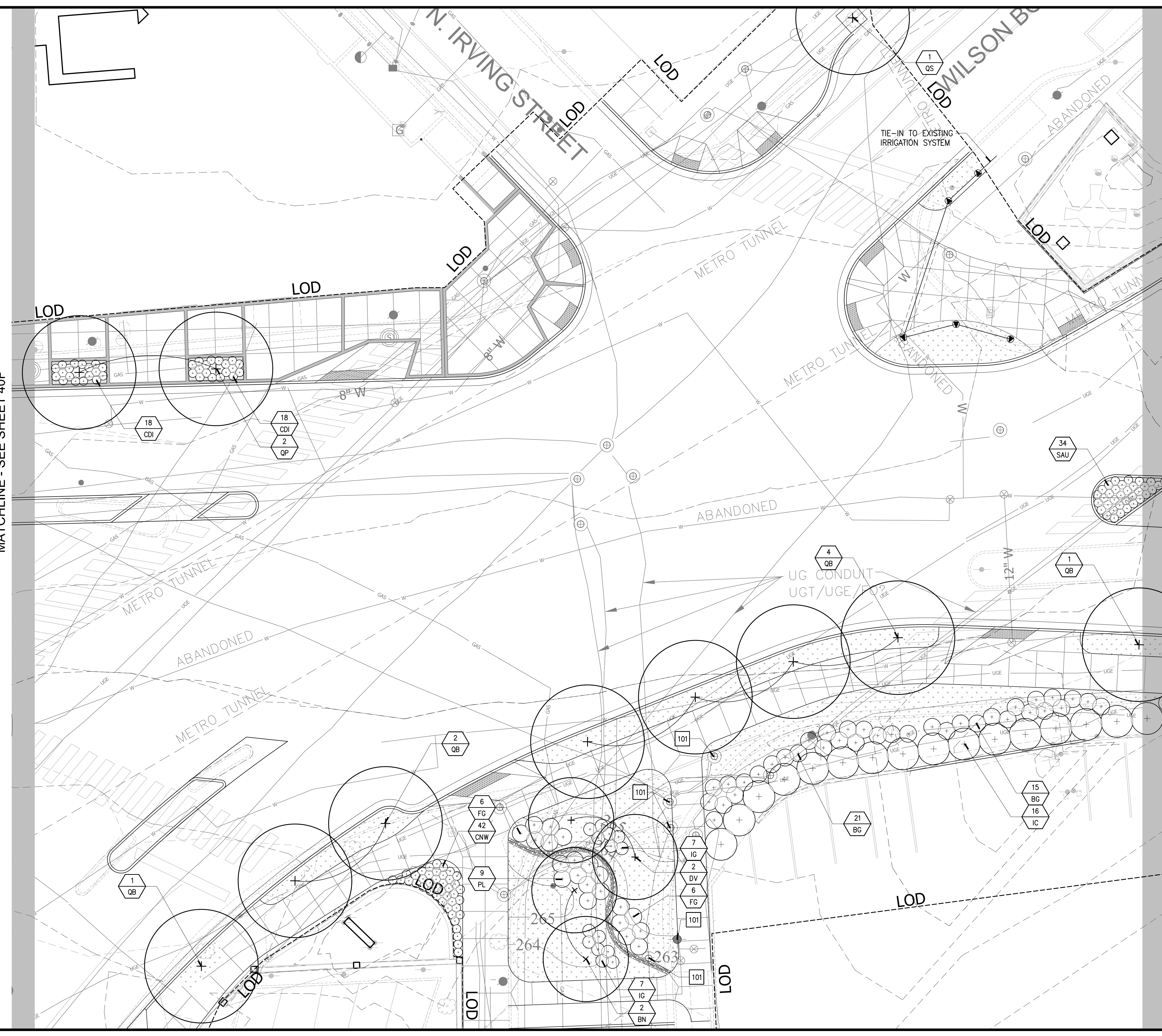
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Sheet **40F**

314-43513.DWG/S.16.0000

MATCHLINE - SEE SHEET 40F

MATCHLINE - SEE SHEET 40H



KEYED NOTES

SITE UTILITIES

101 UTILITY STRUCTURES
-REF CIVIL DWGS

SYMBOLS LEGEND

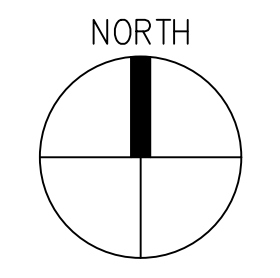
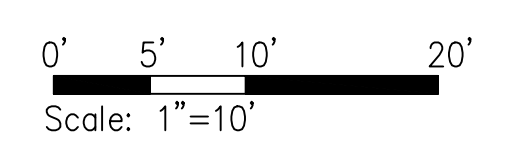
- LOD- LIMITS OF DISTURBANCE
- TURF
- GROUNDCOVER
- SHRUBS
- EXISTING TREE TO REMAIN
- PROPOSED TREE

IRRIGATION

- SPRAY HEAD
- CLASS 200 PVC 1"
- SLEEVES - 2" MIN.

NOTE:
REFER TO SHEET 40I FOR
LANDSCAPE PLANTING SCHEDULE

REFER TO ARLINGTON COUNTY
CLARENDON METRO PLAZA:
PAVEMENT RESURFACING
PROJECT FOR FULL IRRIGATION
SYSTEM DRAWINGS, SPECS,
DETAILS, AND LOCATION FOR
EXTENSION TIE-IN.



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DESIGN TEAM SUPERVISOR _____

ENGINEERING BUREAU CHIEF _____

WATER, SEWER STREETS BUREAU CHIEF _____

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4263117.CAD
Plotted: May 25, 2016
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Scale: 1"=10'

Sheet **40G**

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Seal

Approvals Date

DESIGN TEAM SUPERVISOR

ENGINEERING BUREAU CHIEF

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions Date

Revisions	Date

Project Name and Location

Clarendon Circle
 Intersection Street Improvements
LANDSCAPE & HARDSCAPE PLAN
 Wilson Blvd. at Washington Blvd.

314-43513.DWG.SJ6.0000

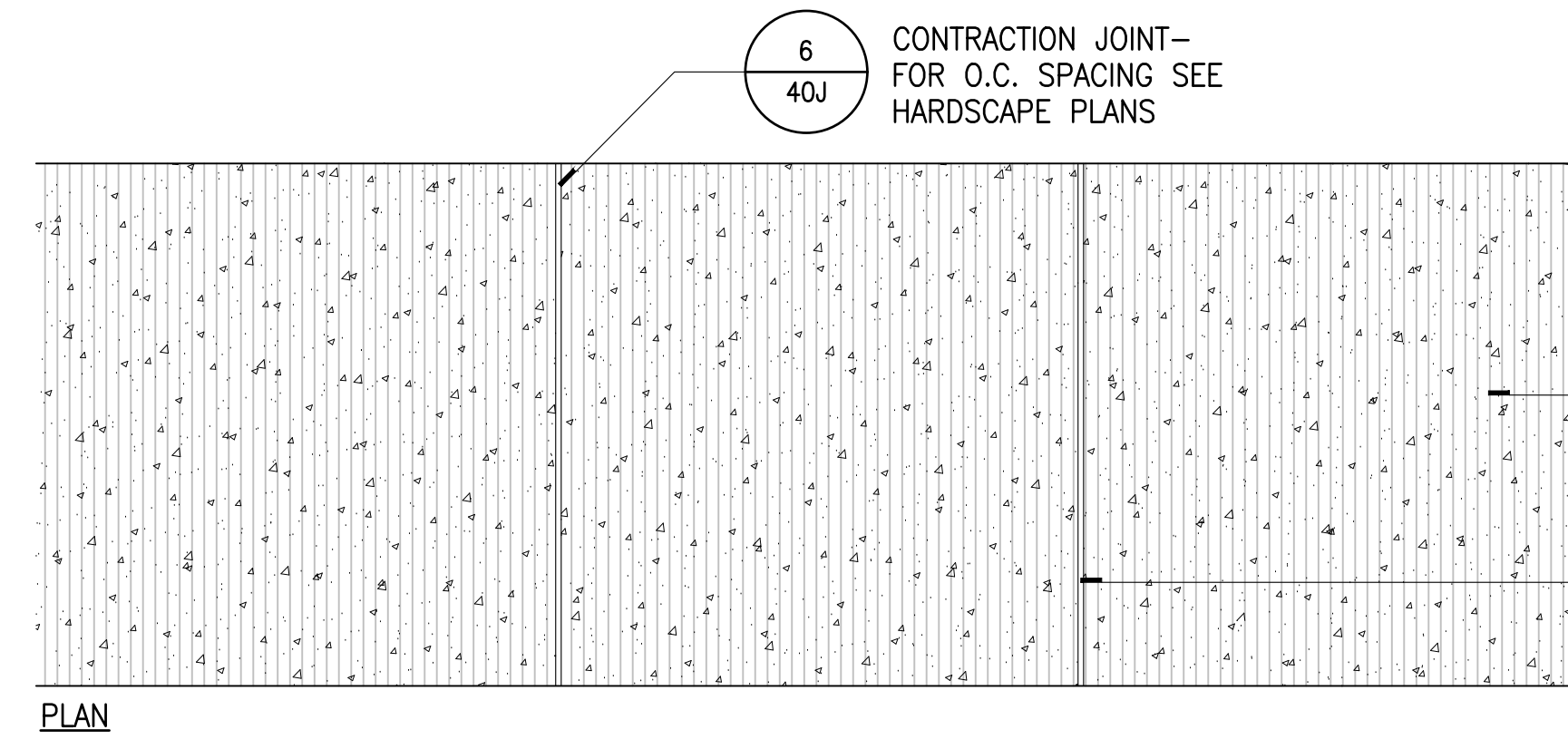
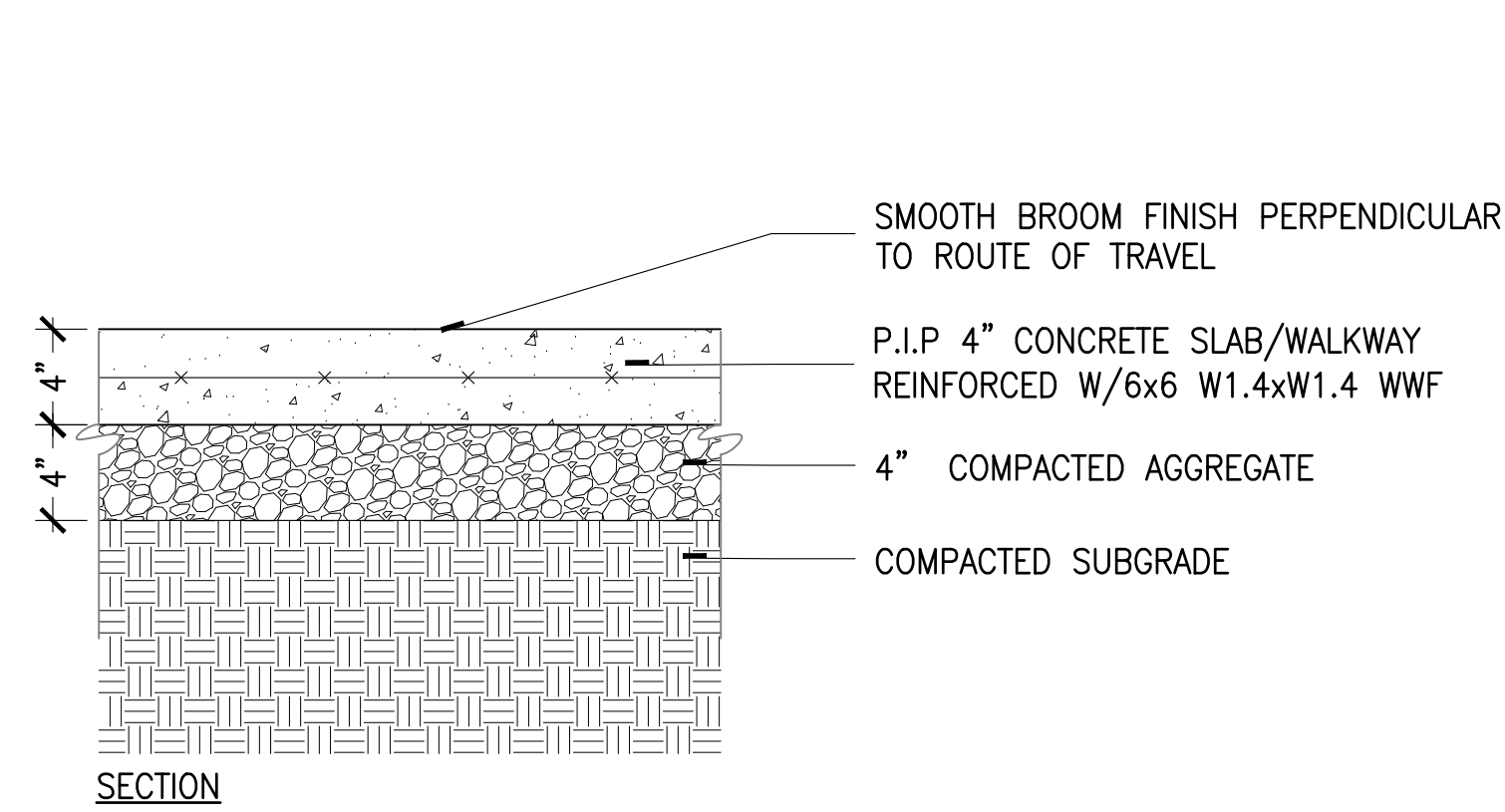
Designed: DS / KF
 Drawn: D. Smith
 Checked: K. Fisher
 Miss Utility Transmittal #: 5057

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 426317.CAD
 Plotted: May 25, 2016
 Plotted by: DustinS

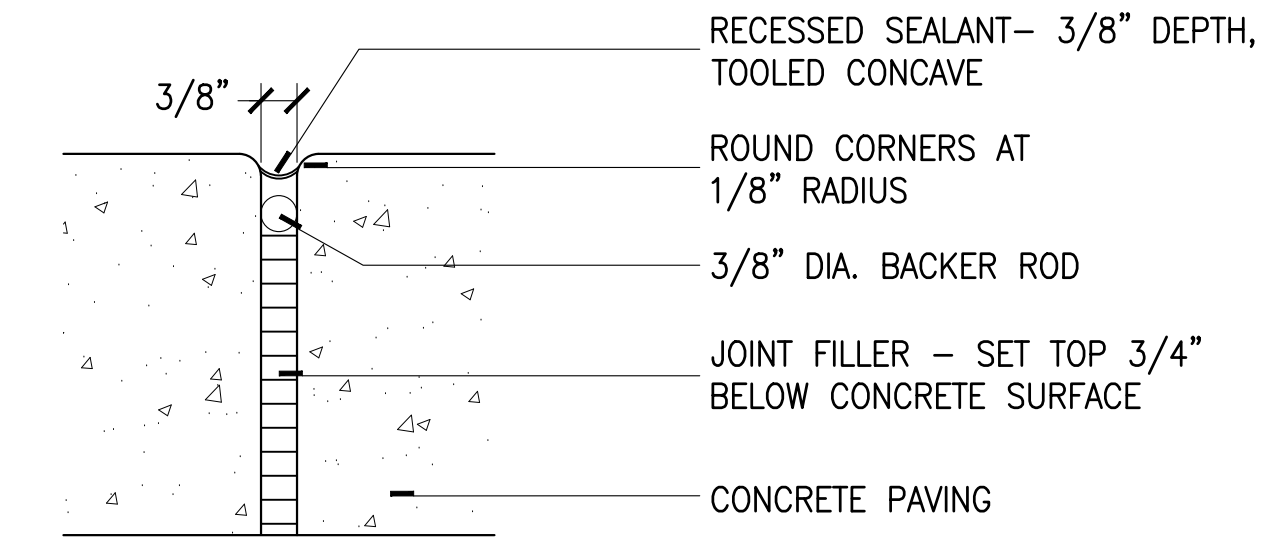
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PLANTING SCHEDULE

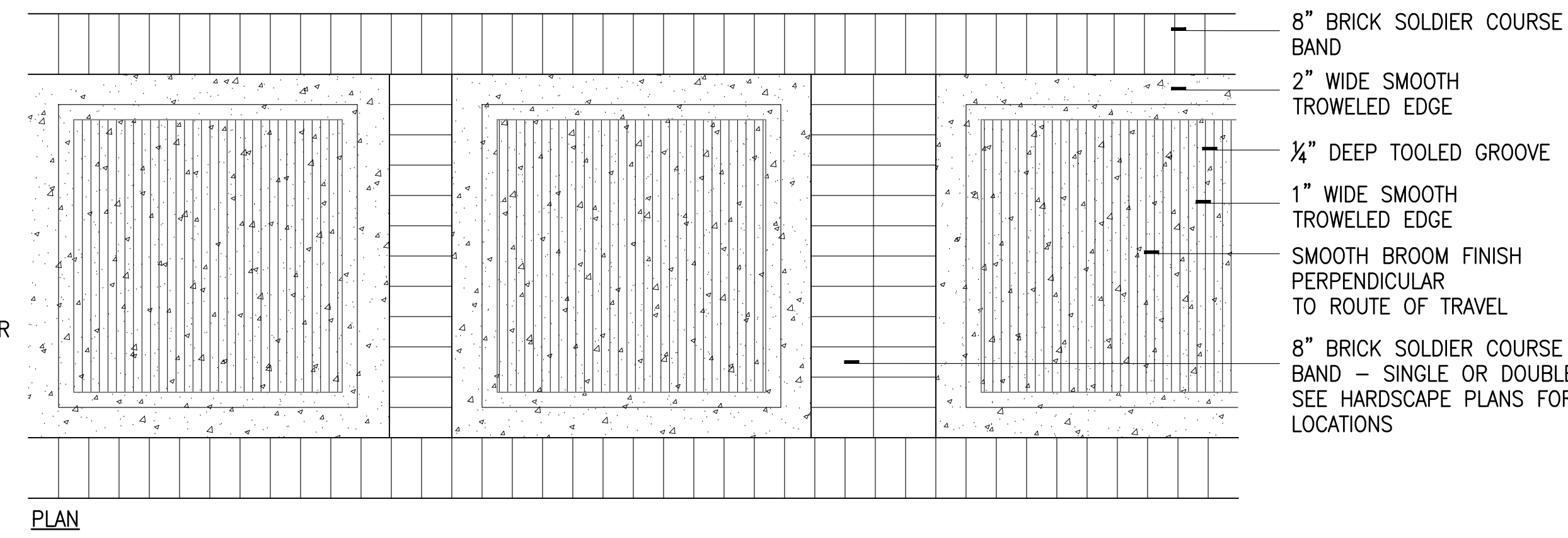
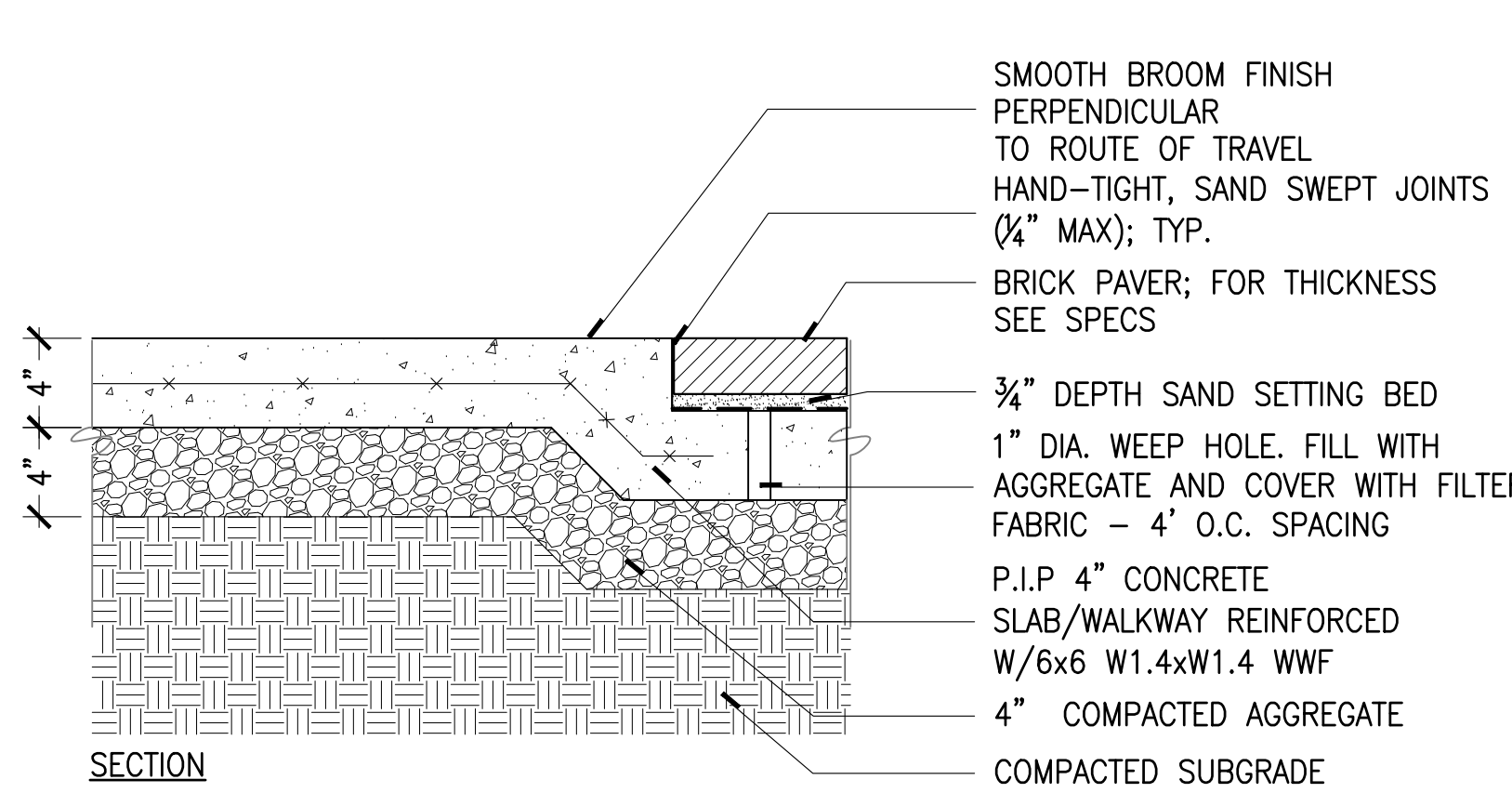
QTY	SYMBOL	LATIN NAME	ENGLISH COMMON NAME	NATIVE/ADAPTED	SIZE/HEIGHT
DECIDUOUS TREES					
2	BN	BETULA NIGRA	RIVER BIRCH	VA NATIVE	2" CAL. / 12' - 14'
2	DV	DIOSPYROS VIRGINIANA	AMERICAN PERSIMMON	VA NATIVE	2" CAL. / 12' - 14'
5	LS	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	VA NATIVE	2" CAL. / 12' - 14'
6	TA	TILIA AMERICANA	AMERICAN LINDEN	VA NATIVE	2" CAL. / 12' - 14'
10	QB	QUERCUS BICOLOR	WHITE OAK	VA NATIVE	2" CAL. / 12' - 14'
3	QP	QUERCUS PHELLOS	WILLOW OAK	VA NATIVE	2" CAL. / 12' - 14'
5	QS	QUERCUS SHUMARDII	SHUMARD OAK	VA NATIVE	2" CAL. / 12' - 14'
SHRUBS					
	BG	BUXUS X 'GREEN VELVET'	GREEN VELVET BOXWOOD		24-36"
	FG	FOTHERGILLA GARDENII 'BLUE SHADOW'	FOTHERGILLA		24-36"
	IG	ILEX GLABRA 'DENSE'	INKBERRY		24-36"
	IC	ILEX 'CONAF' OAKLEAF	OAKLEAF HOLLY		10' HT.
	PL	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL		24-36"
	TM	TAXUS X MEDIA 'GREEN WAVE'	GREEN WAVE YEW		36"
GROUNDCOVERS					
	CNW	CALAMINTHA NEPATOIDES 'WHITE CLOUD'	DWARF FLOWERING MINT		1 GAL.
	CDI	CAREX DIVULSA	BERKLEY SEDGE		1 GAL.
	PAC	PACHYSANDRA TERMINALIS	PACHYSANDRA		FLAT / 8" O.C.
	SAU	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS		1 GAL.



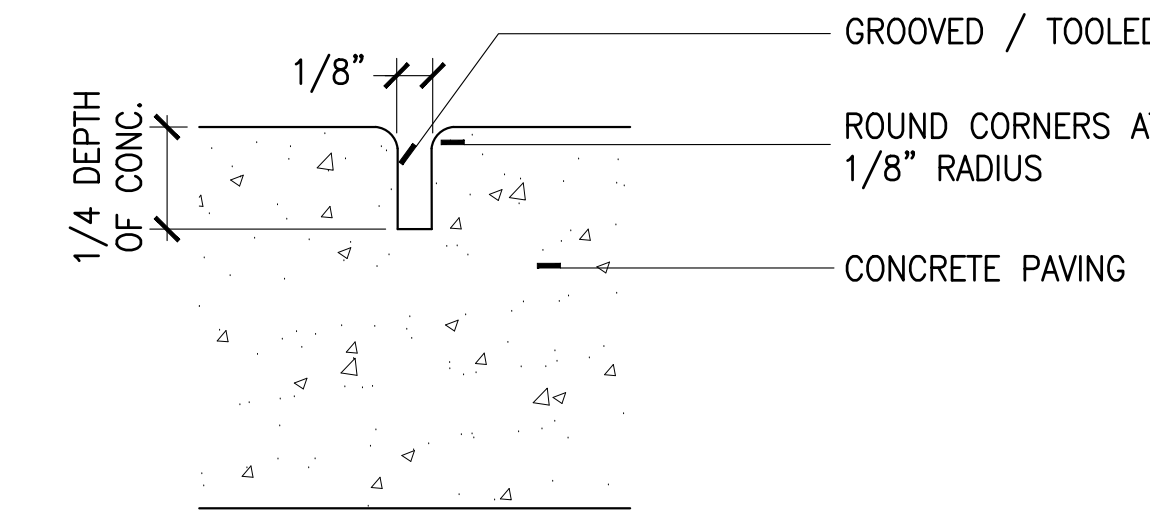
① P.I.P. CONCRETE PAVING
1-1/2"=1'



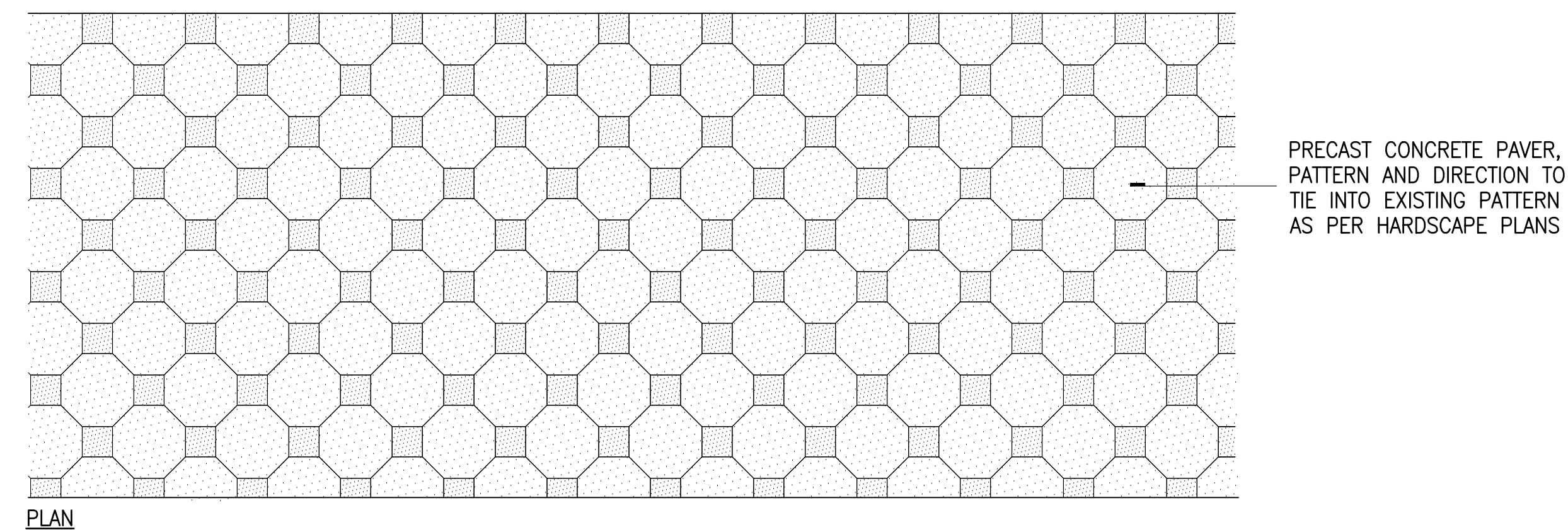
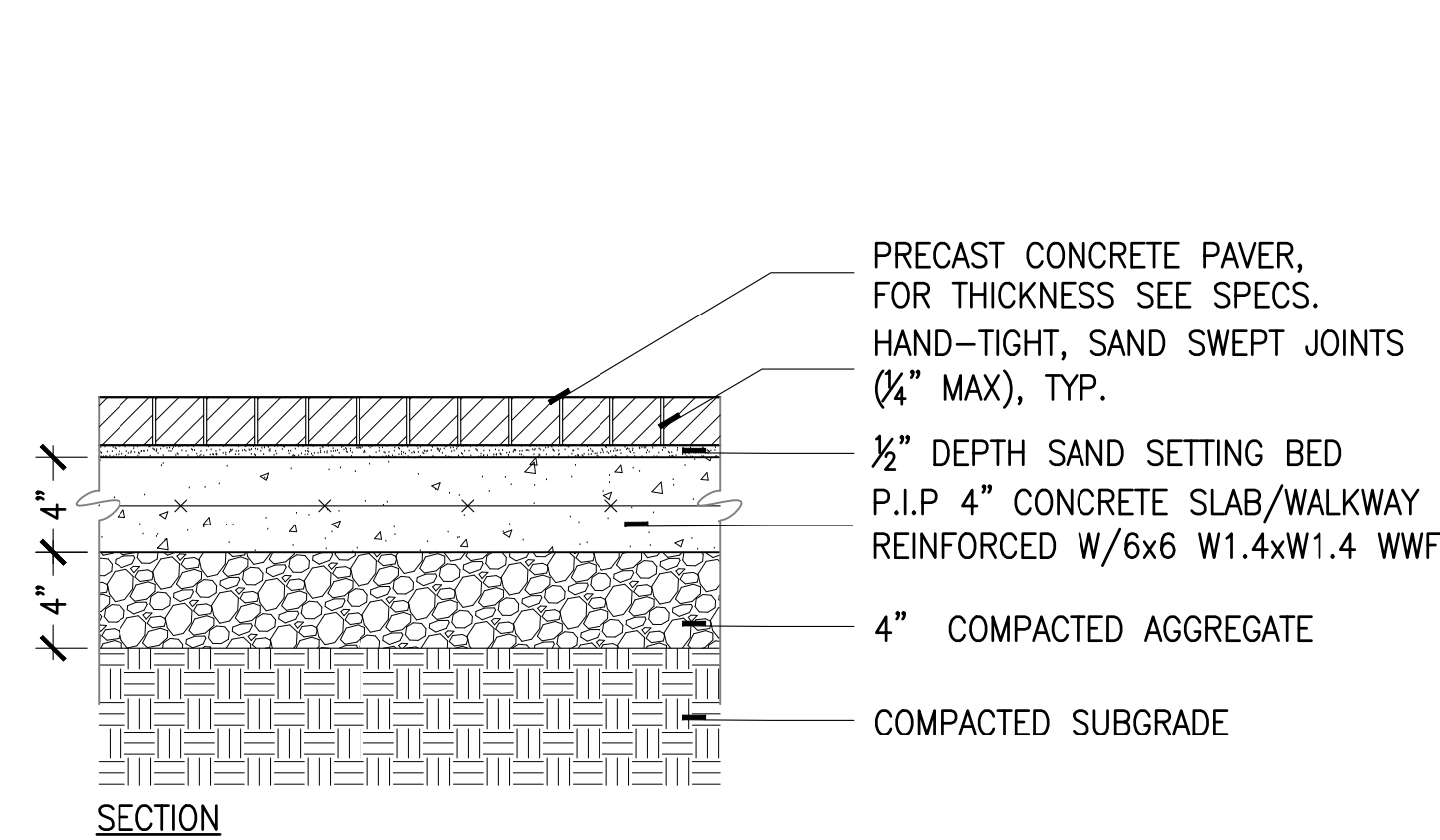
⑤ ISOLATION JOINT (IJS)
3"=1'



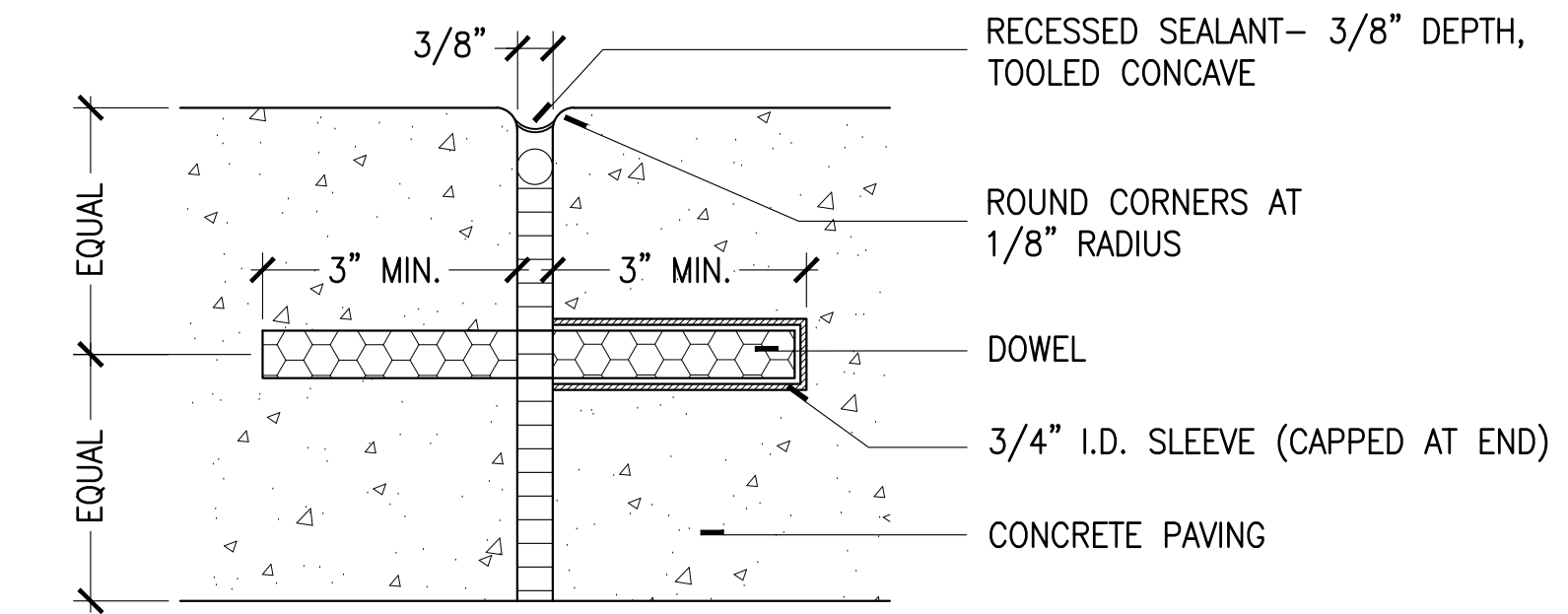
② P.I.P. CONCRETE PAVING WITH BRICK SOLDIER COURSE BAND
1-1/2"=1'



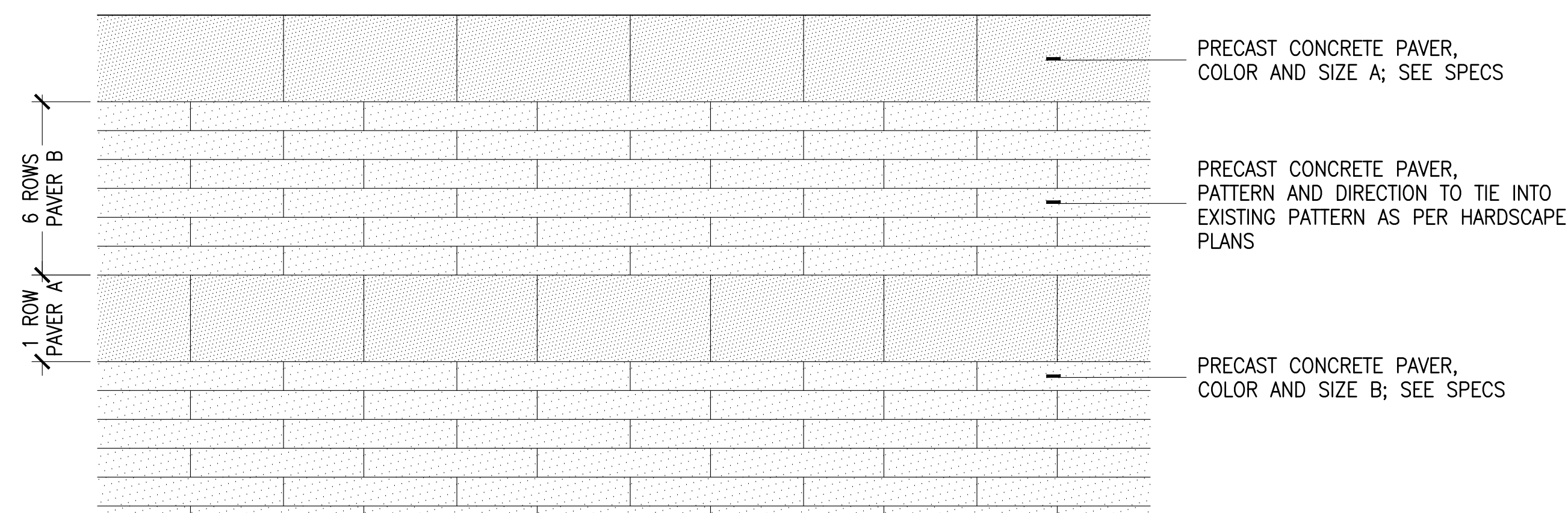
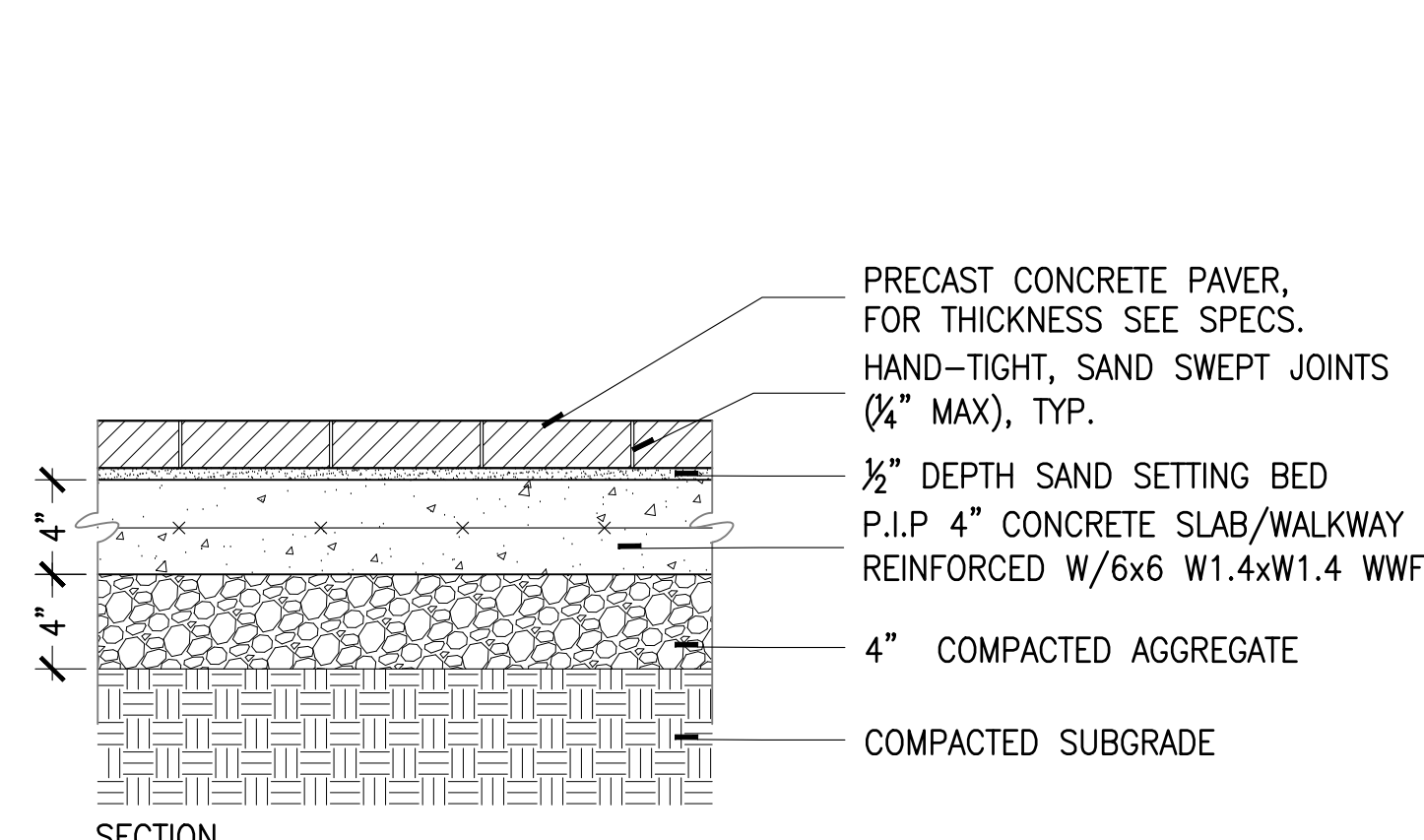
⑥ CONTRACTION JOINT (CJG)
3"=1'



③ PRECAST CONCRETE PAVER - TYPE 1
1-1/2"=1'



⑦ ISOLATION JOINT (IJD) AT EXISTING CONCRETE
3"=1'



④ PRECAST CONCRETE PAVER - TYPE 2
1-1/2"=1'

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

ENGINEERING BUREAU CHIEF

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions Date

Project Name and Location

Clarendon Circle
Intersection Street Improvements
LANDSCAPE & HARDSCAPE PLAN
Wilson Blvd. at Washington Blvd.

314-43513.DWG/SJ16.0000

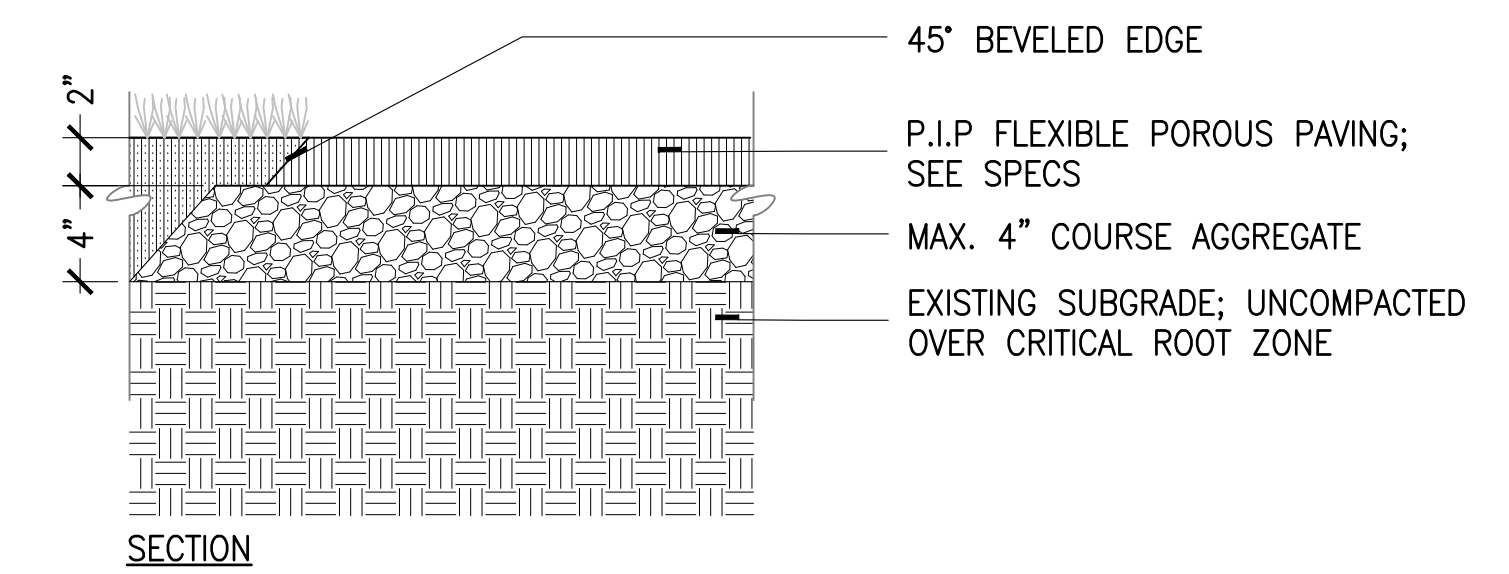
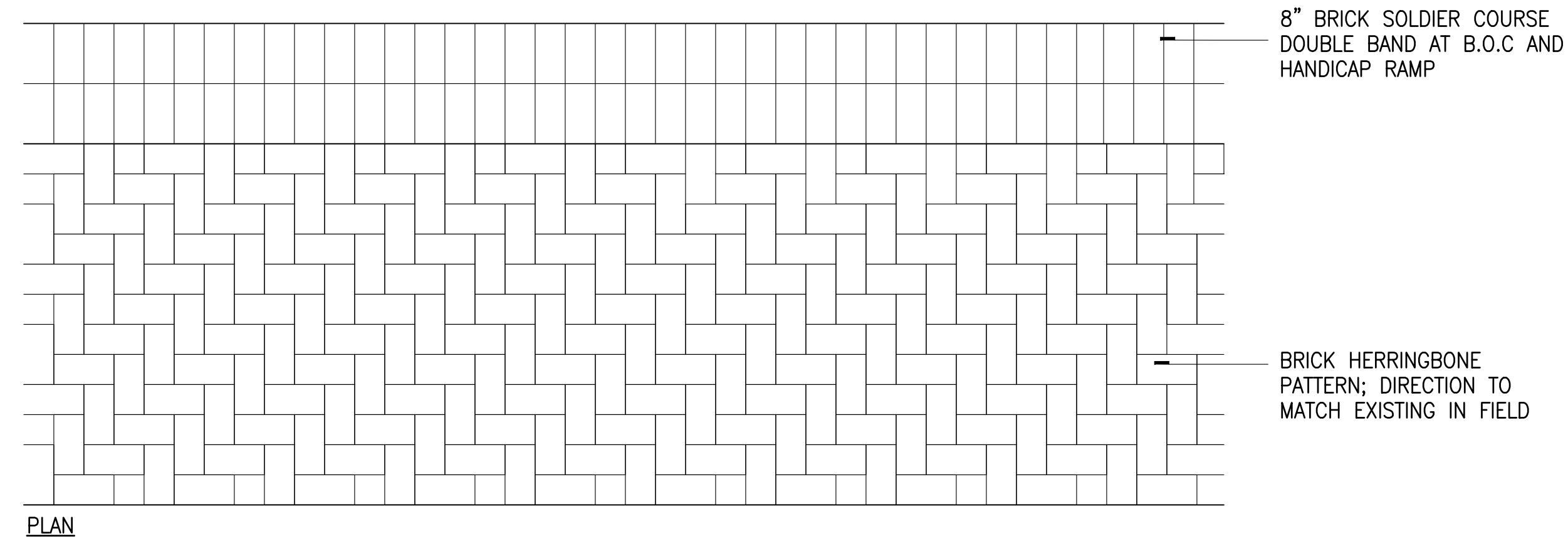
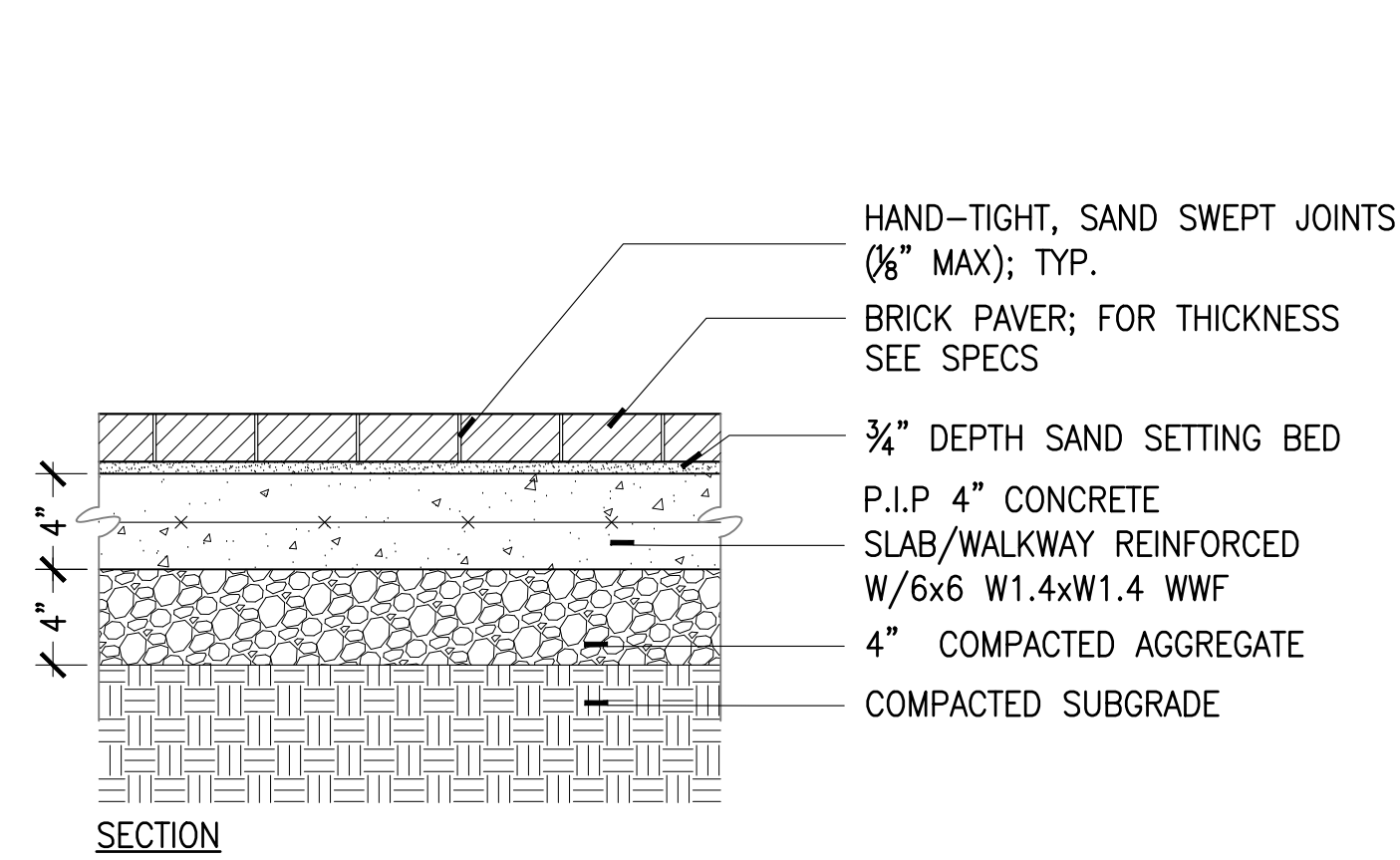
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Miss Utility Transmittal #: 5057

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Plotted by: DustinS

Scale: AS INDICATED

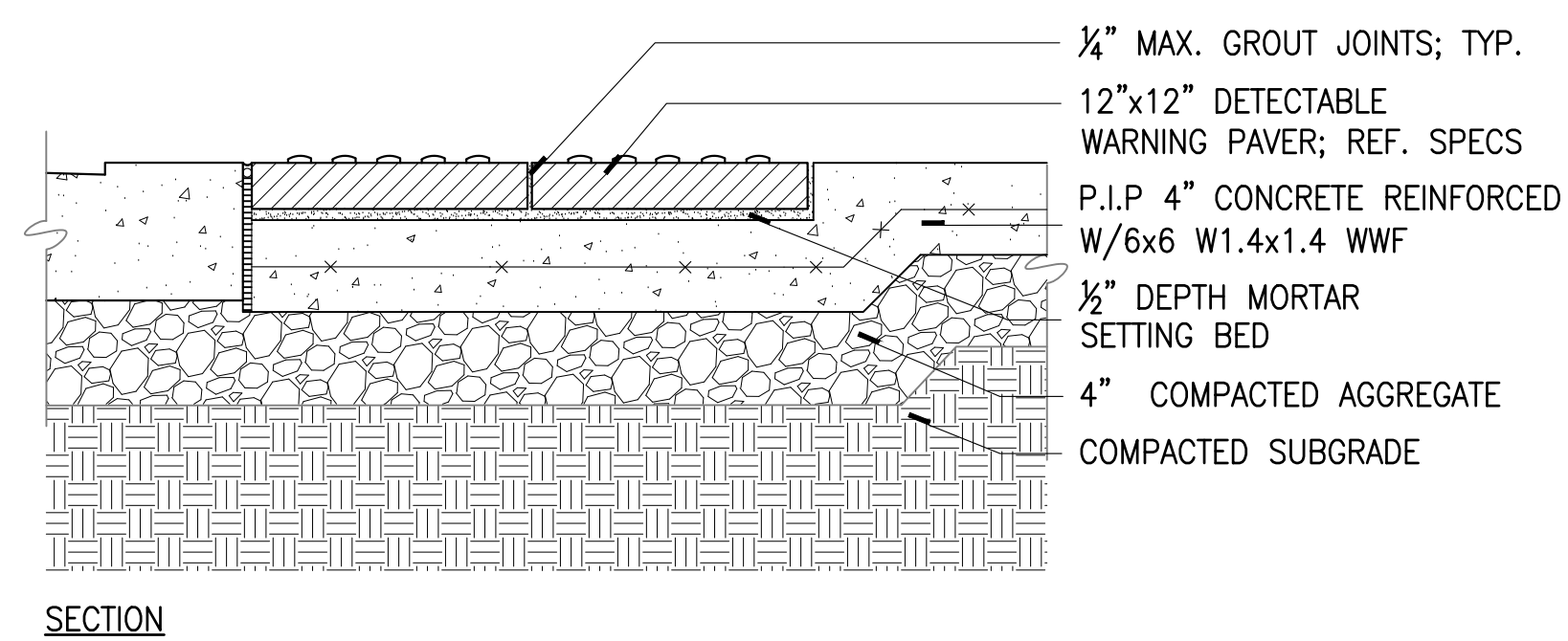
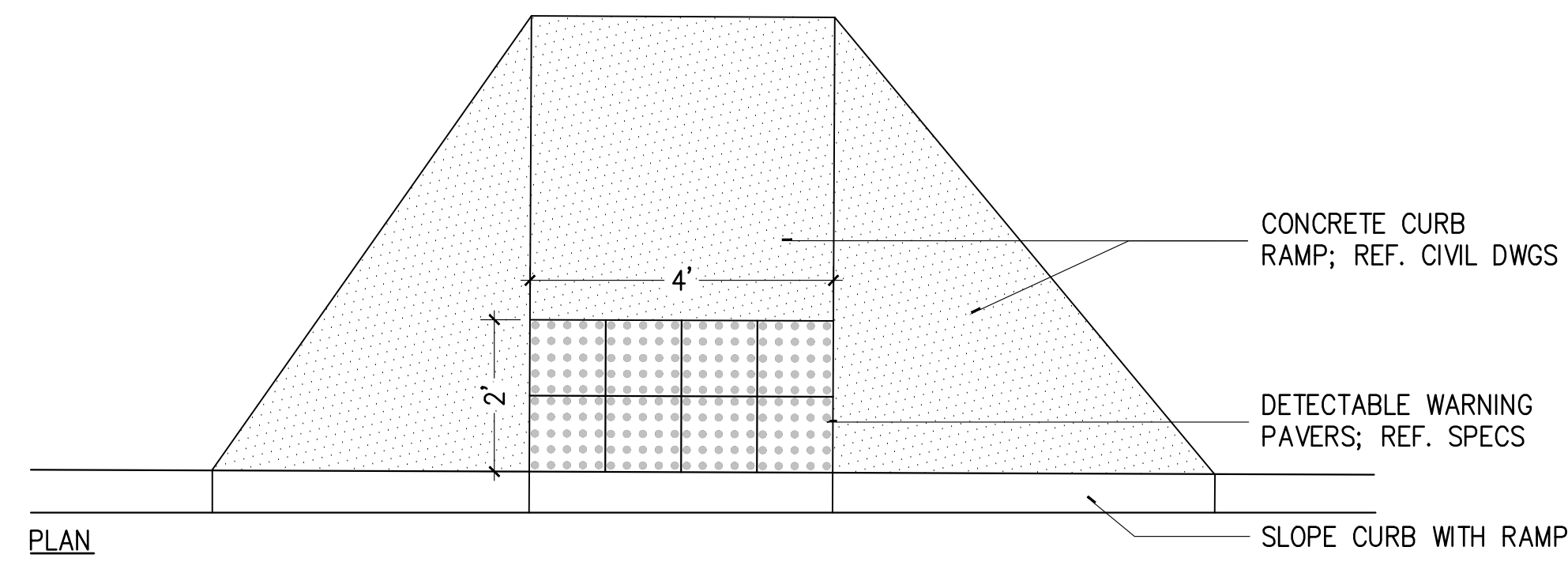
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40J



1 BRICK PAVING
 1-1/2"=1'

2 FLEXIBLE POROUS PAVING
 1-1/2"=1'



3 TRUNCATED DOME PAVING
 1/2"=1'

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

ENGINEERING BUREAU CHIEF

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions Date

Project Name and Location

Clarendon Circle
 Intersection Street Improvements
LANDSCAPE & HARDSCAPE PLAN
 Wilson Blvd. at Washington Blvd.

314-43513.DWG.S16.0000

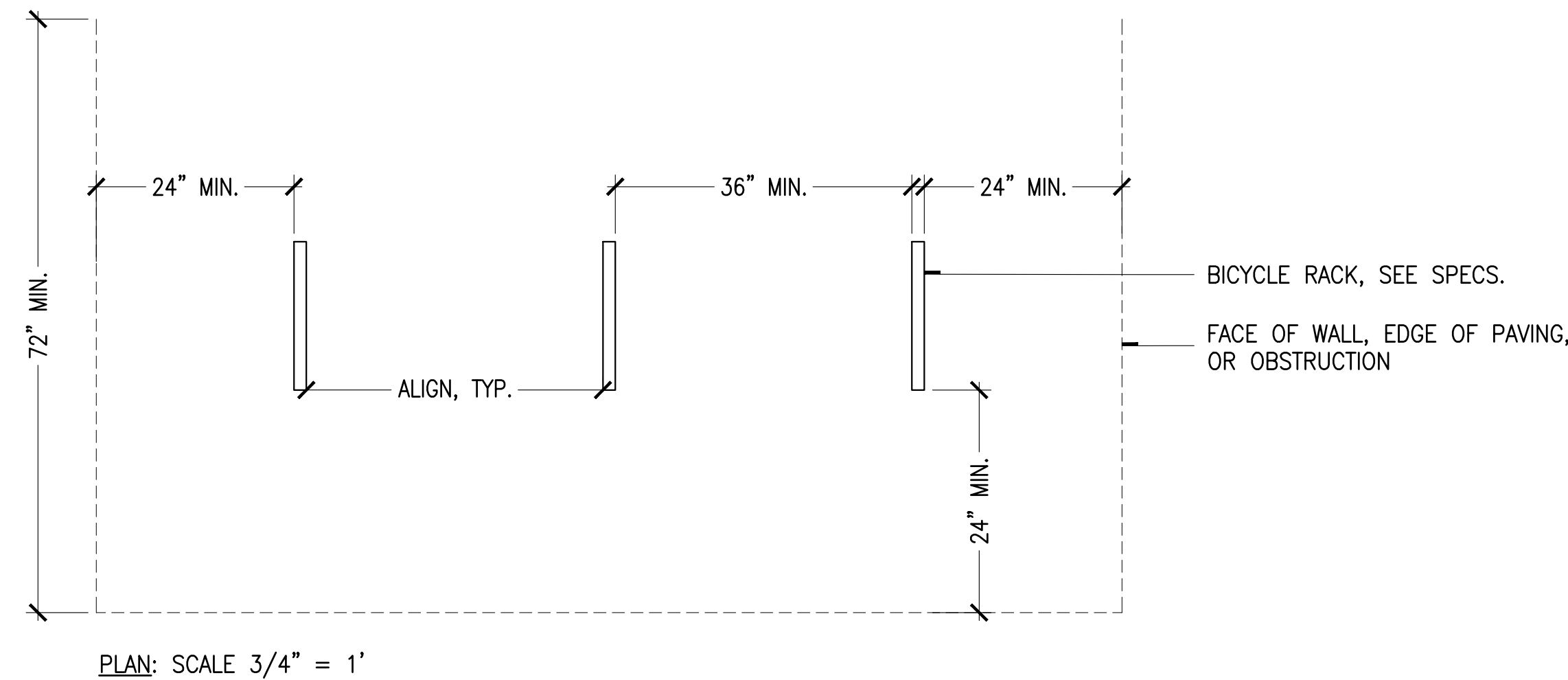
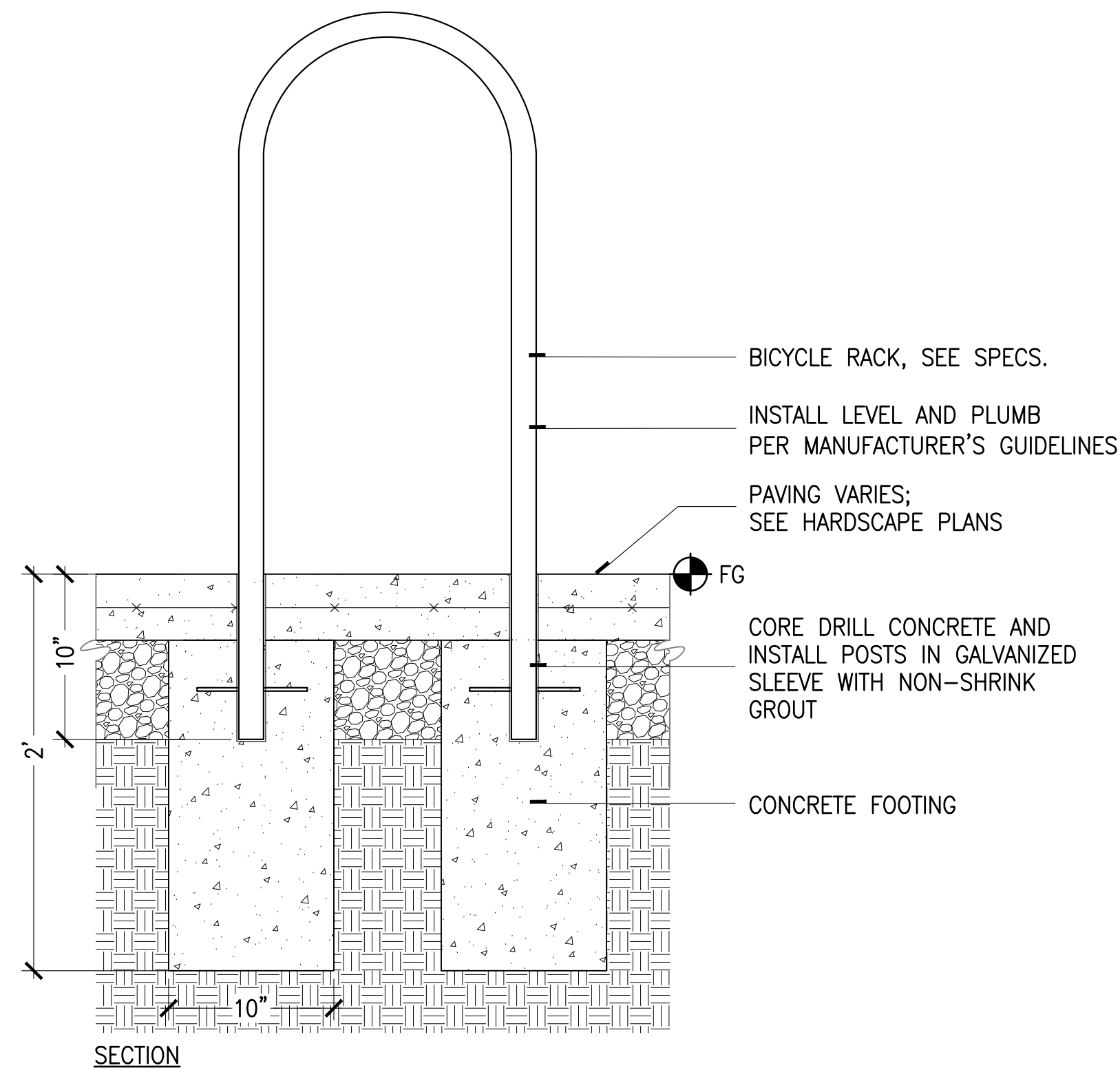
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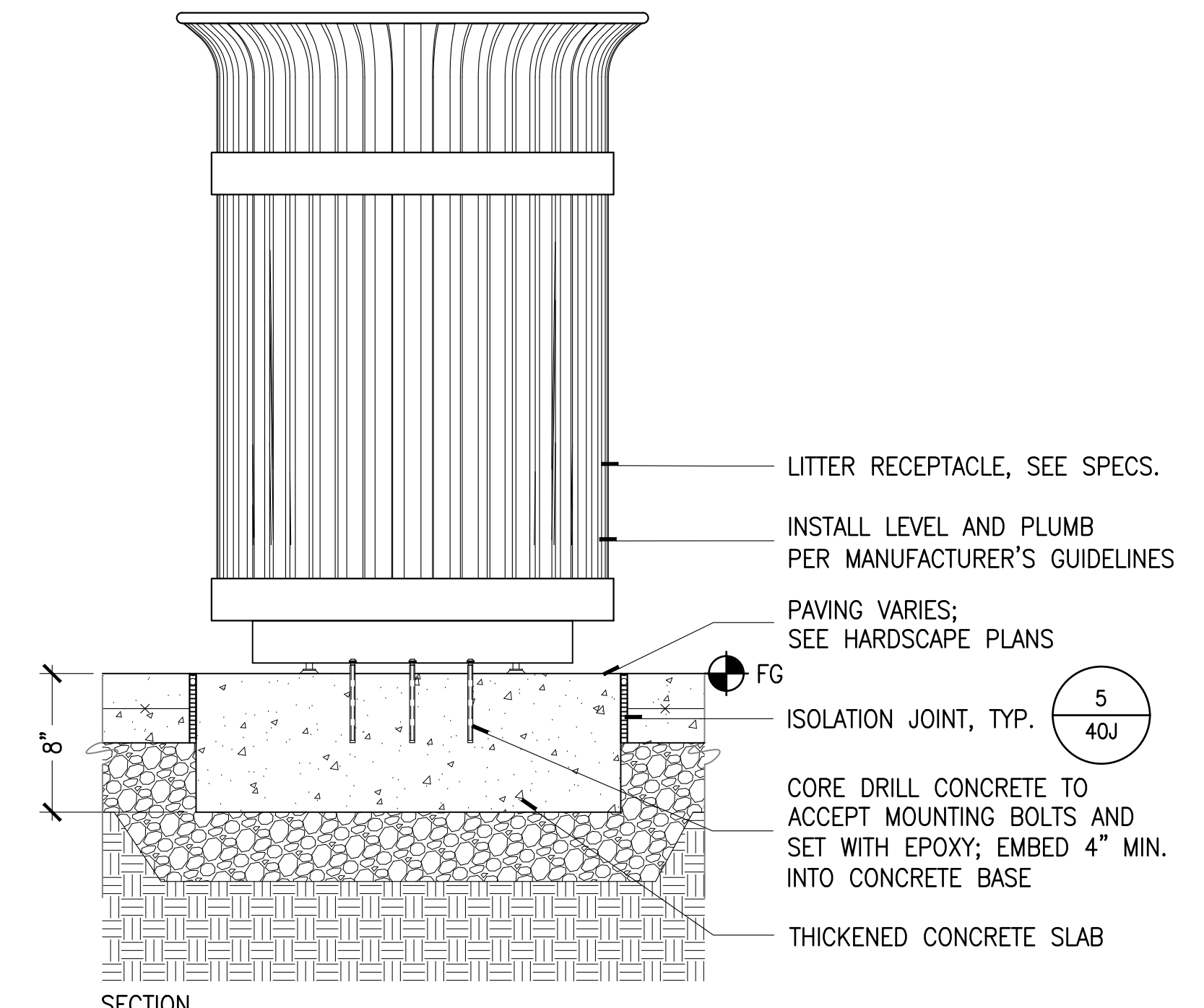
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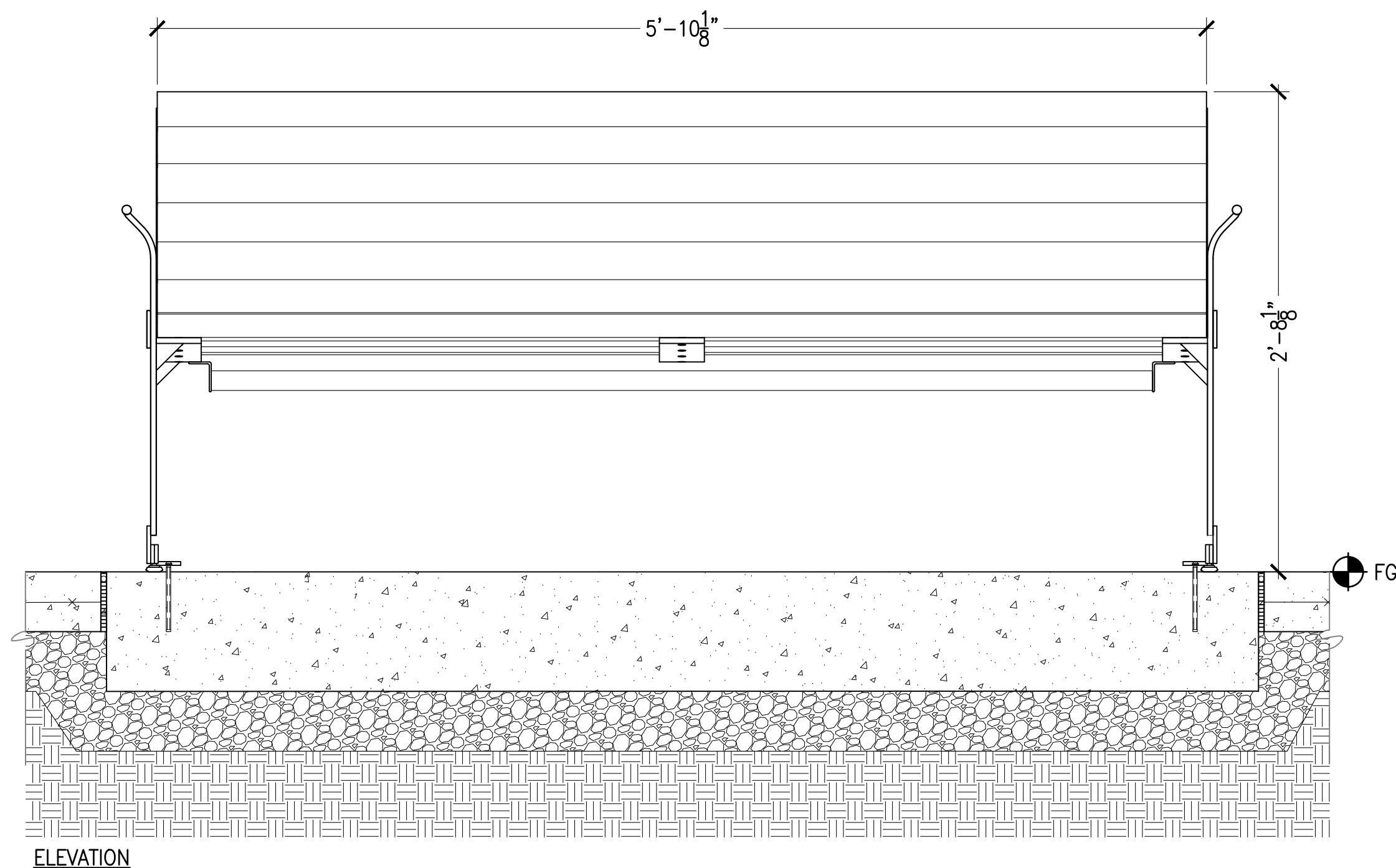
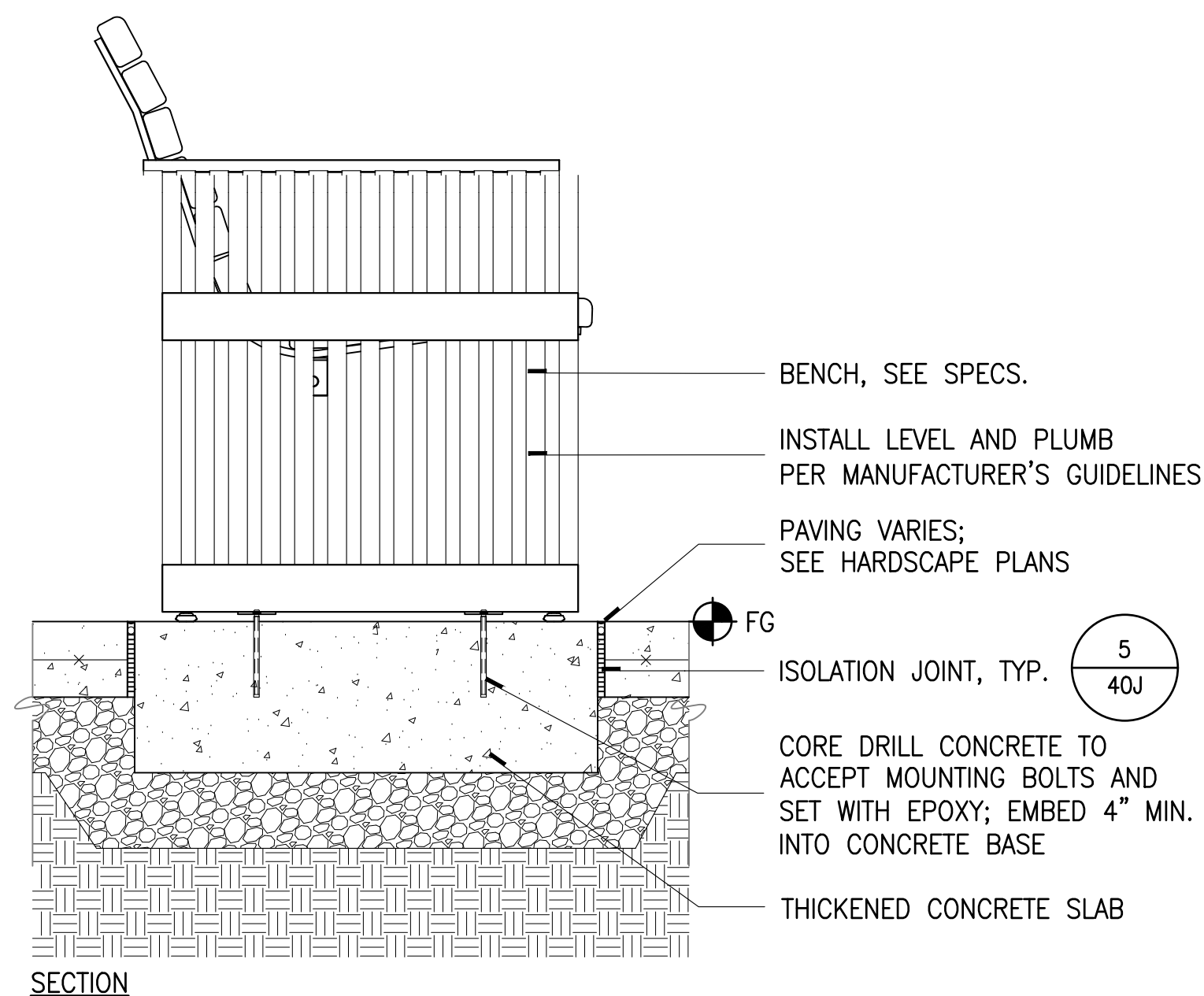
40K



1 ARL. CO. STANDARD BICYCLE RACK MOUNTING
 1-1/2"=1'



2 ARL. CO. STANDARD LITTER RECEPTACLE MOUNTING
 1-1/2"=1'



3 BENCH MOUNTING
 1-1/2"=1'

Seal

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ENGINEERING BUREAU CHIEF

WATER, SEWER STREETS BUREAU CHIEF

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Filename: 42631-L-DETL-MATL.dwg
 Path: P:\Clarendon Circle Intersection Street Improvements\4263117 CAD
 Plotted: May 25, 2016
 Plotted by: DustinS
 Scale: AS INDICATED

NOTES

1. A PERMIT IS REQUIRED WHEN TREES ARE PLANTED IN PUBLIC RIGHT-OF-WAY OR IN A PUBLIC EASEMENT. THE DEPARTMENT OF ENVIRONMENTAL SERVICES SHALL ISSUE THE PERMIT ACCORDING TO THE PROVISIONS OF THE CURRENT ARLINGTON COUNTY ADMINISTRATIVE REGULATION 4.3.
2. TREE SPECIES SHALL BE SELECTED FROM THE "ARLINGTON COUNTY STREET TREE LIST" OR PER SECTOR PLAN REQUIREMENTS.
3. TREES SHALL BE NURSERY GROWN SPECIMENS THAT MEET THE LATEST EDITION OF THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60). BALLED AND BURLAPPED TREES SHALL BE SECURELY HELD IN PLACE BY UNTREATED BURLAP AND STOUT ROPE (NYLON ROPE IS NOT ACCEPTABLE). LOOSE, BROKEN OR MANUFACTURED BALLS ARE UNACCEPTABLE.
4. CALL MISS UTILITY AT (800) 552-7001 FOR UTILITY LOCATIONS PRIOR TO EXCAVATION.
5. AT TIME OF PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
6. TREE PIT AND TREE STRIP PLANTING AREA DIMENSIONS:
 - (A) 5' X 12' OR LARGER IS STANDARD
 - (B) 4' X 15' MINIMUM IS ALLOWED PER SITE CONDITIONS AND COUNTY URBAN FORESTER'S APPROVAL.
7. SPACE TREES 25'-30' APART OR PER SECTOR PLAN REQUIREMENTS OR SITE CONDITIONS.
8. SITE CHARACTERISTICS, SUCH AS OVERHEAD POWER LINES, EXISTING VEGETATION, AND INFRASTRUCTURE ITEMS SUCH AS CURBS, SIDEWALKS AND UTILITIES SHALL BE CONSIDERED. TREES THAT GROW TALLER THAN 25 FEET SHOULD NOT BE PLANTED DIRECTLY UNDER POWER LINES. WHEN POSSIBLE THE TREE LEADER SHALL BE OFFSET FROM POWER LINES.
9. BACKFILL SOIL MIXTURE SHALL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER. PEAT MOSS MAY NOT BE USED).
10. IF THE QUANTITY OF ACCEPTABLE EXISTING SOIL IS INSUFFICIENT FOR THE PLANTING REQUIREMENTS, THE CONTRACTOR MAY USE TOPSOIL. SOIL TEST REPORT RESULTS FOR THE TOPSOIL WILL BE MADE AVAILABLE TO THE COUNTY URBAN FORESTER UPON REQUEST. CONTRACTOR SHALL SUBMIT TOPSOIL FOR APPROVAL TO COUNTY URBAN FORESTER THAT MEETS THE FOLLOWING SPECIFICATIONS:
 - (A.) TOPSOIL CONSISTS OF A SANDY LOAM WITH UNIFORM COMPOSITION AND IS FREE OF STONES, LUMPS, PLANTS, ROOTS, AND OTHER DEBRIS OVER 1/2" IN LENGTH.
 - (B.) TOPSOIL HAS A PH RANGE OF 5.5 TO 6.5 AND A MINIMUM CONTENT OF 1.0% ORGANIC MATTER
 - (C.) TOPSOIL DOES NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT GROWTH. SOLUBLE SALT LEVEL SHALL NOT EXCEED 3 MILLIGRAMS PER CENTIMETER.
11. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.
12. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER. REFER TO ARLINGTON COUNTY STANDARD STAKING DETAILS.
13. MULCH SHALL BE CLEAN, SCREENED, DOUBLE-HAMMERED HARDWOOD BARK MULCH, UNIFORM IN SIZE AND FREE OF STONES, CLODS, NON-ORGANIC DEBRIS AND OTHER FOREIGN MATERIAL.
14. ALL PLANTS SHALL BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION. EACH WATERING WILL CONSIST OF 20 GALLONS PER TREE.
15. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.

1 ARL. CO. STANDARD GENERAL NOTES FOR STREET TREE PLANTING
NTS

NOTES

1. AT PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
 2. CONTRACTOR SHALL MAXIMIZE EXCAVATED AREA FOR TREE PIT WITHOUT ADVERSELY IMPACTING ADJACENT SITE FEATURES.
 3. UNLESS OTHERWISE DIRECTED BY PROJECT OFFICER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE PROJECT OFFICER; PEAT MOSS MAY NOT BE USED).
 4. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.
 5. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.
 6. TREES MAY ONLY BE STAKED IF REQUIRED BY THE PROJECT OFFICER. REFER TO STAKING DETAILS.
- ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.
- THIS DETAIL SUPERSEDES ALL OTHER TREE PLANTING DETAILS IN ARLINGTON COUNTY.
-
- MULCH RING (6 FT.) DIAM. MIN.
- CENTER TREE IN PIT AND SET TOP OF ROOT BALL 2 IN. ABOVE ADJACENT GRADE. THE TRUNK FLARE SHALL BE VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
- 4 IN. HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL
- REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP 2/3 OF ROOT BALL
- 3 IN. MULCH; MULCH MUST BE 6 IN. AWAY FROM TREE TRUNK
- TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT
- ROUGHEN SIDES OF PLANTING HOLE BACKFILL SOIL MIXTURE FOR ENTIRE TREE PIT AREA X ROOTBALL DEPTH SOIL SHALL BE FIRMED IN 8" LIFTS
- MIN. WIDTH OF TREE PIT 2 TIMES ROOTBALL DIAMETER OR 5'-0", WHICHEVER IS GREATER
- UNDISTURBED SUBGRADE

4 ARL. CO. STANDARD TREE PLANTING DETAIL
NTS

NOTES

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES.
 2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.
 3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.
 4. GROUND COVERS AND PERENNIALS SHALL BE INSTALLED WITH TRIANGULAR SPACING. REFER TO CHART.
 4. UNLESS OTHERWISE DIRECTED BY PROJECT OFFICER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE PROJECT OFFICER; PEAT MOSS MAY NOT BE USED).
 5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.
 6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF PLANTS.
- ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.
- THIS DETAIL SUPERSEDES ALL OTHER GROUND COVER PLANTING DETAILS IN ARLINGTON COUNTY.
- | PLANT SPACING "D" O.C. | ROW "A" O.C. | PLANTS PER S.F. |
|------------------------|--------------|-----------------|
| 6" | 5" | 4.00 |
| 8" | 7" | 2.25 |
| 9" | 8" | 1.77 |
| 12" | 10" | 1.00 |
| 15" | 13" | 0.77 |
| 18" | 16" | 0.44 |
-
- PLACE TOP 1/8 OF ROOT BALL ABOVE FINISHED GRADE (TYP.)
- 3" MULCH OVER ENTIRE PLANTING BED
- BACKFILL SOIL MIXTURE
- LOOSEN THE ROOT BALL OF ANY ROOT BOUND PLANTS (TYP.)
- UNDISTURBED SUBGRADE OR COMPACTED BACKFILL SOIL MIXTURE
- EDGE OF BED OR PLANTER
- TRIANGULAR SPACING PLAN & CHART NOT TO SCALE
- SEE PLANTING PLAN & SCHEDULE

7 ARL. CO. STANDARD GROUND COVERS & PERENNIAL PLANTING
NTS

NOTES

1. TREE GRATES MAY ONLY BE USED UPON APPROVAL OF ARLINGTON COUNTY URBAN FORESTER.
 2. REFER TO DETAIL 02930.5 FOR GENERAL STREET TREE PLANTING NOTES.
 3. INSTALL RAILING, RAISED CURB, OR BORDER PER APPROVED PLANS.
- STREET TREE, REFER TO PLANTING DETAIL (SHEET 2 OF 2, DETAIL 02930.3B)
- ADJACENT CURB PER ARLINGTON COUNTY STANDARDS
- HEADER COURSE OF PAVERS CONTINUOUS THROUGH TREE PIT PER ARLINGTON COUNTY STANDARDS AND SECTOR PLAN REQUIREMENTS; SEE INSET FOR VARIATION WITHOUT HEADER COURSE
- *#57 STONE SLOPED TO DRAIN PIPE AT 1/2"-1"/FOOT; LINE SIDES OF EXCAVATION WITH FILTER FABRIC
- 4" PERFORATED HDPE, SMOOTH WALL DRAIN PIPE CONNECTED TO STORM DRAIN SYSTEM OR DRAIN PIT PER ARLINGTON COUNTY STANDARDS; PIPE MAY BE LOCATED AT SIDES OR MIDDLE OF PIT PER SITE CONDITIONS
- UNDISTURBED SOIL OR SOIL COMPACTED TO 95% STD. PROCTOR
- ADJACENT CURB PER ARLINGTON COUNTY STANDARDS UNDISTURBED SOIL OR COMPACTED SUBGRADE
- WIDTH VARIES REFER TO APPROVED PLANS
- INSET
- SIDEWALK PER ARLINGTON COUNTY STANDARDS
- 30" MIN.
- 6"
- THIS DETAIL SUPERSEDES ALL OTHER STREET TREE PIT CONSTRUCTION DETAILS IN ARLINGTON COUNTY.

2 ARL. CO. STANDARD STREET TREE PLANTING PIT
NTS

NOTES

1. STAKING AND GUYING MAY ONLY BE IMPLEMENTED WHERE SITE CONDITIONS WARRANT THEIR USE. PLANTED TREES WILL BE ASSESSED INDIVIDUALLY BY PROJECT OFFICER. STAKING AND GUYING WILL BE INSTALLED ONLY IF REQUIRED BY PROJECT OFFICER. CONDITIONS WHERE STAKING AND GUYING MAY BE NECESSARY TO ENSURE STABILITY INCLUDE: WINDY LOCATIONS, STEEP SLOPES, OR WHERE VANDALISM MAY BE A CONCERN.
 2. STAKES OR GUYS WILL BE INSTALLED USING ACCEPTED ARBORICULTURE PRACTICES. TREES SHALL STAND PLUMB AFTER STAKING.
 3. INSTALLATION WILL INCLUDE THE REMOVAL OF ALL STAKING AND GUYING MATERIAL ONE YEAR AFTER INSTALLATION. ANY HOLES LEFT BY REMOVING STAKING SHALL BE FILLED WITH APPROVED TOPSOIL/BACKFILL MIXTURE.
 4. REFER TO DETAILS FOR TREE PLANTING INFORMATION.
-
- HARDWOOD STAKE
- TREE TRUNK
- ARBOR TIE OR APPROVED EQUAL
- ROOT BALL
- PLANTING PIT
- PLAN VIEW NOT TO SCALE
- SURVEYOR'S FLAG
- (2) 2" X 2" X 8' HARDWOOD STAKES SET OUTSIDE OF ROOTBALL
- 2" WIDE, FLAT, WOVEN POLYPROPYLENE MATERIAL, 900 LB. BREAK STRENGTH ("ARBOR TIE" OR AN APPROVED EQUAL) SHALL BE LOOPED AROUND THE TREE THROUGH EACH OTHER, TWISTED AND SECURED TO THE STAKE IN A MANNER WHICH PERMITS TREE MOVEMENT AND SUPPORTS THE TREE.
- 5' MIN.
- THIS DETAIL SUPERSEDES ALL OTHER DECIDUOUS TREE STAKING DETAILS IN ARLINGTON COUNTY.

5 ARL. CO. STANDARD DECIDUOUS TREE STAKING
NTS

NOTES

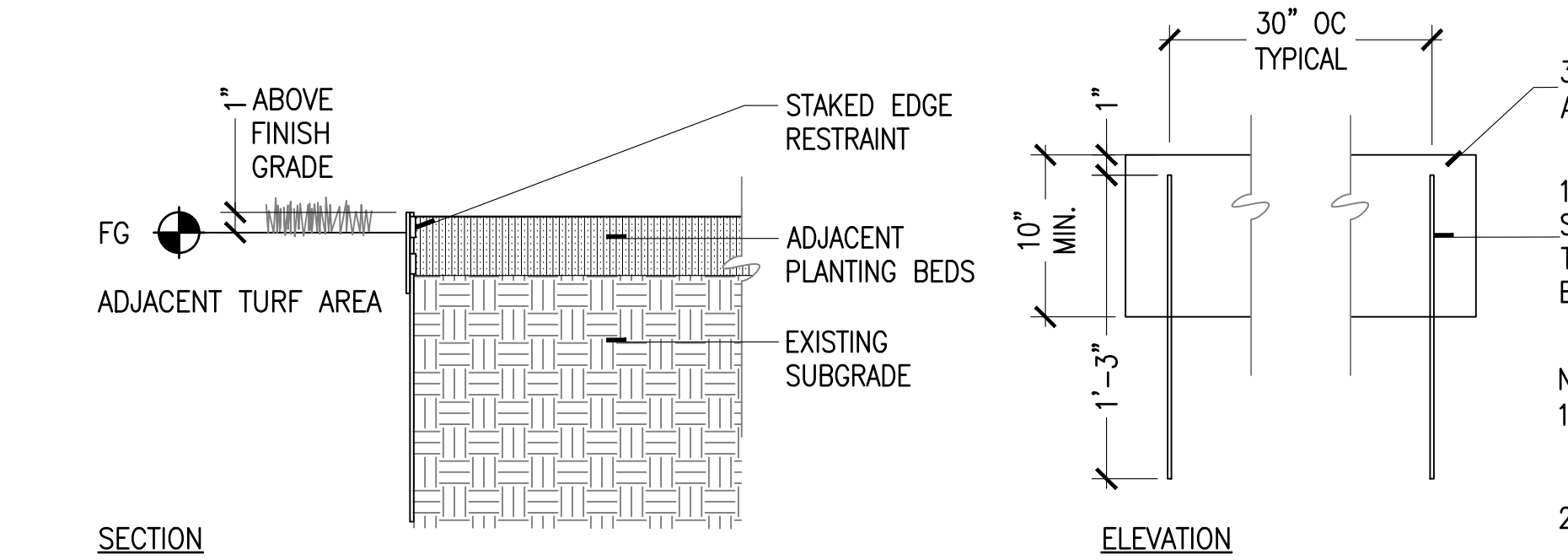
1. REFER TO STREET TREE PIT DETAIL (02930.3A) FOR PIT CONSTRUCTION AND INFORMATION ON ADJACENT PAVEMENTS, CURB, AND DRAINAGE.
 2. REFER TO DETAIL 02930.5 FOR GENERAL TREE PLANTING NOTES.
- CENTER TREE IN PIT AND SET TOP OF ROOT BALL 2 IN. ABOVE ADJACENT SOIL. THE TRUNK FLARE SHALL BE VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
- 3 IN. MULCH; MULCH MUST BE 6" AWAY FROM TREE TRUNK
- REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP 2/3 OF ROOT BALL
- BACKFILL SOIL MIXTURE FOR ENTIRE TREE PIT AREA; COMPACT TO 80-85% STD. PROCTOR IN 8" LIFTS; DO NOT COMPACT ROOTBALL
- COMPACT BACKFILL SOIL MIXTURE TO 95% STD. PROCTOR BELOW ROOT BALL ONLY
- DEPTH OF ROOTBALL VARIES
- THIS DETAIL SUPERSEDES ALL OTHER STREET TREE PLANTING DETAILS IN ARLINGTON COUNTY.

3 ARL. CO. STANDARD STREET TREE PLANTING PIT
NTS

NOTES

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES
 2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.
 3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS IN THE CENTER OF THE PLANTING PIT. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.
 4. UNLESS OTHERWISE DIRECTED BY PROJECT OFFICER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE PROJECT OFFICER; PEAT MOSS MAY NOT BE USED).
 5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.
 6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF SHRUBS
- ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.
- THIS DETAIL SUPERSEDES ALL OTHER SHRUB PLANTING DETAILS IN ARLINGTON COUNTY.
-
- 3' MIN.
- SHRUB
- PARKING LOT
- TYPICAL SHRUB PLACEMENT NEAR PARKING LOTS NOT TO SCALE
- REFER TO PLANTING PLAN & PLANT LIST FOR SPACING
- PLACE TOP 1/8 OF ROOT BALL ABOVE FINISHED GRADE (TYP.)
- 3" MULCH OVER ENTIRE SHRUB BED
- FINISHED GRADE
- BACKFILL SOIL MIXTURE (TYP.) FOR CONTAINER: LOOSEN THE ROOT BALL OF ANY ROOT BOUND PLANTS
- UNDISTURBED SUBGRADE OR COMPACTED BACKFILL SOIL MIXTURE
- FOR B&B: REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP 2/3 OF ROOT BALL
- 2 X WIDTH OF ROOT BALL (TYP.)

6 ARL. CO. STANDARD SHRUB PLANTING
NTS



8 STAKED EDGE RESTRAINT - BED DIVIDER
1-1/2"=1'



DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

Seal

Approvals Date

DESIGN TEAM SUPERVISOR

ENGINEERING BUREAU CHIEF

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions Date

Project Name and Location
Clarendon Circle
Intersection Street Improvements
LANDSCAPE & HARDSCAPE PLAN
Wilson Blvd. at Washington Blvd.

Designed: DS / KF
Drawn: D. Smith
Checked: K. Fisher
Miss Utility Transmittal #: 5057

Filename: 42631-L-DET-PLNT.dwg
Path: P:\Clarendon Circle Intersection Street Improvements
4263117.CAD

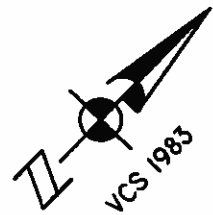
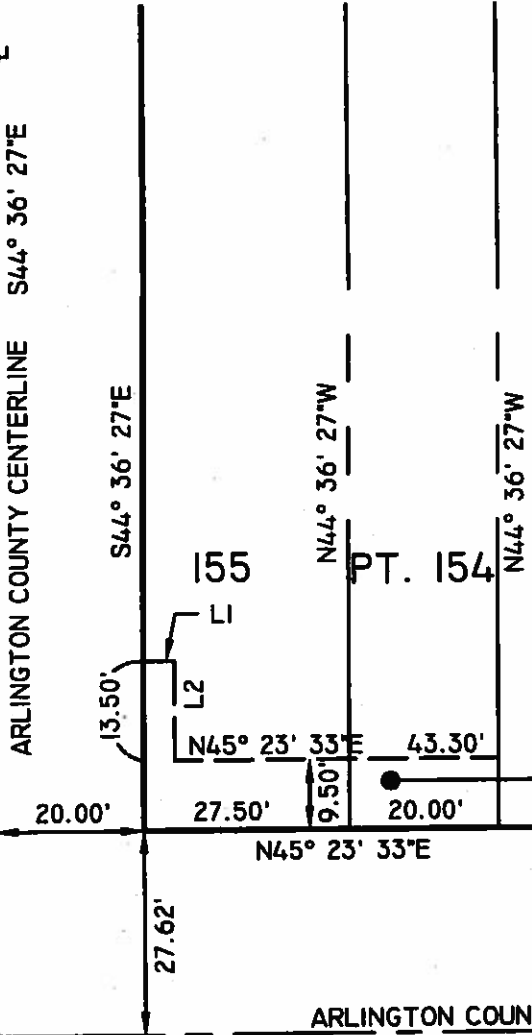
Plotted: May 25, 2016
Plotted by: DustinS

Scale: AS INDICATED

Sheet

40M

NORTH IRVING STREET



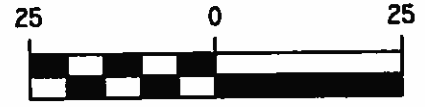
PT. 154

TEMPORARY CONSTRUCTION EASEMENT
AREA = 508 SQ. FT.

ARLINGTON COUNTY CENTERLINE N45° 21' 33"E
WILSON BOULEVARD

P.O.T. 91+16.93 WILSON BOULEVARD
P.I. 0+00 N. IRVING STREET
Δ = 89° 58' 00" LT.

GRAPHIC SCALE

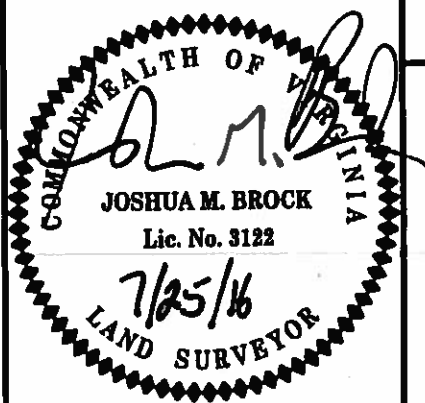


SCALE: 1" = 25'

LINE TABLE		
LINE	BEARING	LENGTH
L1	S45°23'33"W	4.20'
L2	N44°36'27"W	13.50'

RPC 15075004
OWNER: LIBERTY VENTURES, LLC.
D.B. 4105, PG. 1872
ADDRESS: 3195 WILSON BOULEVARD

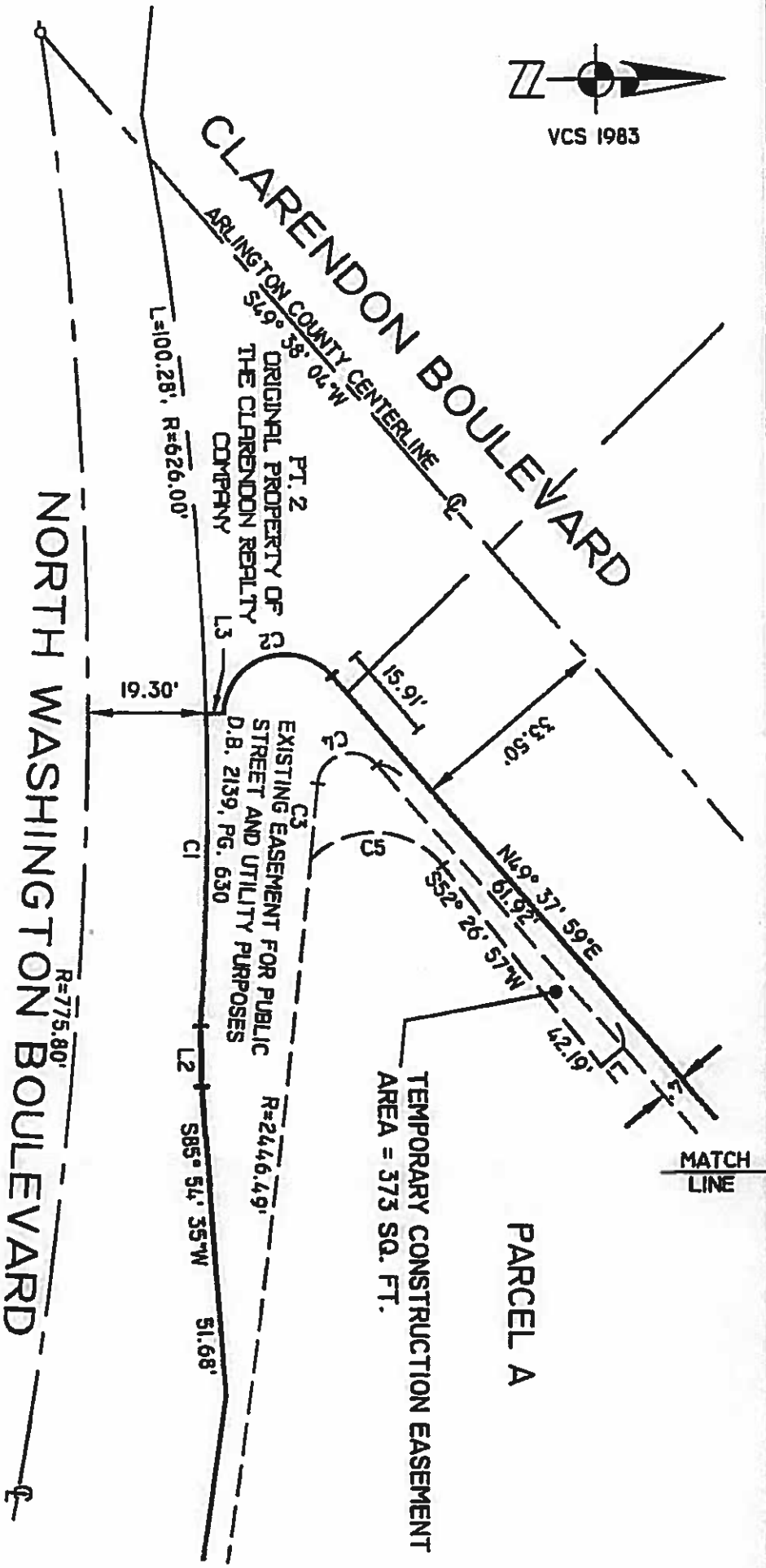
100% REVIEW



ARLINGTON, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
ENGINEERING BUREAU - SURVEY SECTION

PLAT SHOWING
TEMPORARY CONSTRUCTION EASEMENT ON
LOT 155 AND PART LOT 154
BLOCK 5, WOOD-HARMON'S ADDITION TO
CLARENDON
D. B. 102, PG. 138
ARLINGTON COUNTY, VIRGINIA

SCALE : 1" = 25'	DRAWN BY : JMB	CHECKED BY : RLF
CADD FILE : PLATS\MAP53\13\RPC15075004 ESMT.DWG		
APPROVED : 7-25-16 <i>[Signature]</i> COUNTY SURVEYOR	APPROVED : 7-28-2016 <i>[Signature]</i> SUBDIVISION & BONDS ADMINISTRATOR	



LINE	BEARING	LENGTH
L1	S40°22'01"E	4.83'
L2	S88°59'07"W	9.84'
L3	N0°08'08"W	2.92'

CURVE TABLE						
CURVE	RADIUS	DELTA	ARC	TANGENT	CHORD	CHORD BEARING
C1	626.00'	4°45'52"	52.05'	26.04'	52.04'	N88°48'50"W
C2	10.00'	137°48'53"	24.05'	25.93'	18.66'	N19°15'55"W
C3	2446.49'	0°18'01"	12.82'	6.41'	12.82'	N84°42'41"W
C4	5.50'	134°29'41"	12.91'	13.11'	10.14'	N17°36'51"W
C5	14.08'	100°06'44"	24.60'	16.81'	21.59'	S2°41'58"W



OWNER: WELLS REIT I - 3100 CLARENDON, LLC.
 D.B. 3786, PG. 1242
 ADDRESS: 3100 CLARENDON BOULEVARD
 RPC 19002007

ARLINGTON, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 ENGINEERING BUREAU - SURVEY SECTION

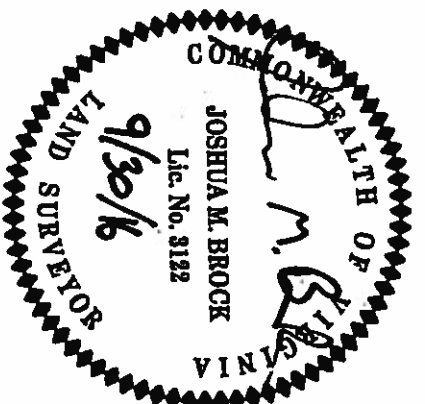
PLAT SHOWING
 TEMPORARY CONSTRUCTION EASEMENT
 ON
 PARCEL A
**OLMSTED'S ADDITION TO
 CLARENDON**
 D.B. 2157, PG. 544
 ARLINGTON COUNTY, VIRGINIA

SCALE: 1" = 25'
 CADD FILE: PLAT\MAP531071RPC19002007 ESMT.DWG
 APPROVED: 10-11-16
 DRAWN BY: JMB
 CHECKED BY: RLF
 APPROVED: 10-13-2016
 COUNTY SURVEYOR
 SUBDIVISION & BONDS ADMINISTRATOR

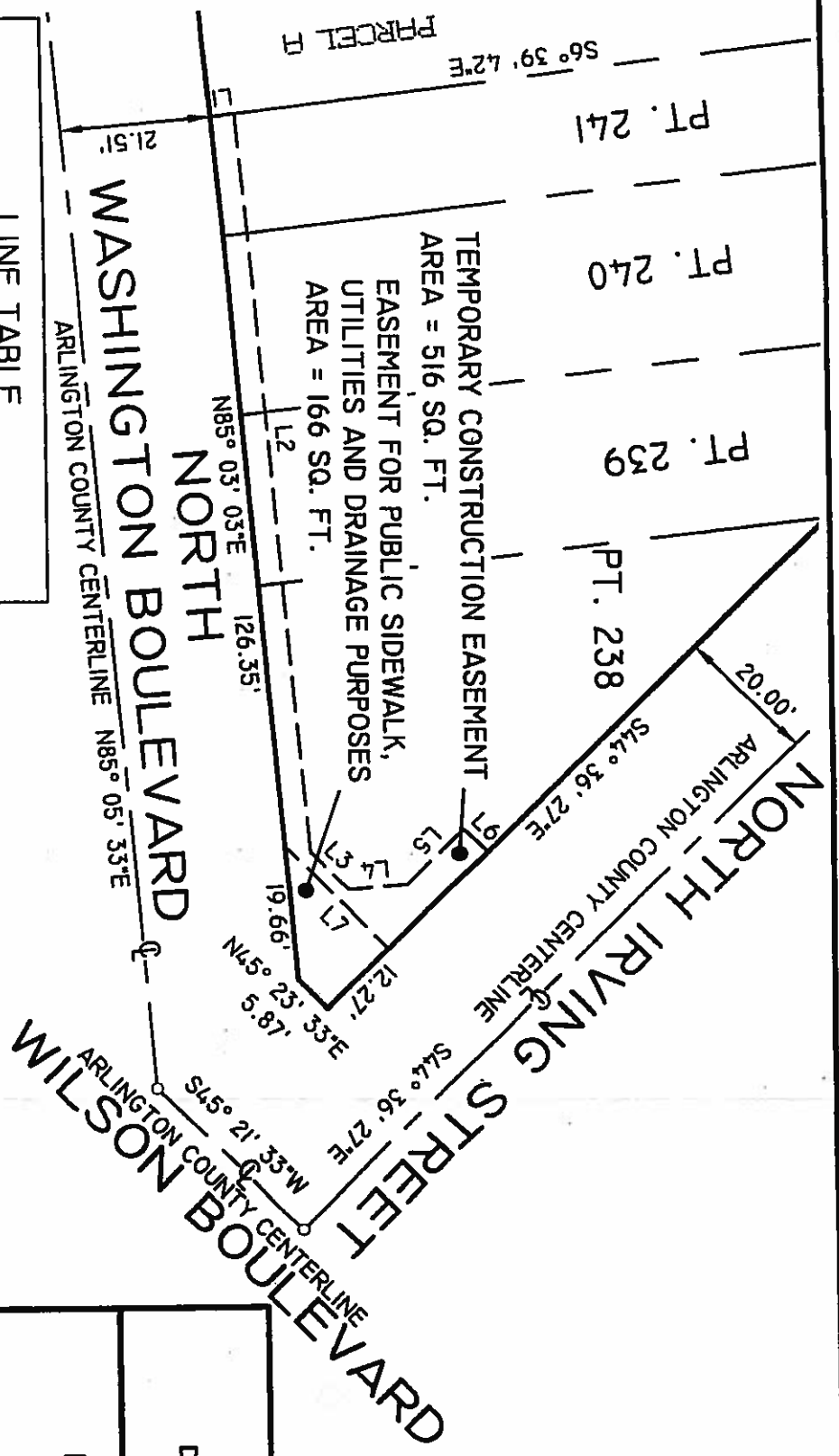
MATCH
 LINE

MATCH
 LINE

100% REVIEW



OWNER: YU TOON LEE & SUN YUNG LEE
 D.B. 2005, PG. 496
 ADDRESS: 3201 WASHINGTON BOULEVARD
 PART OF RPC 15078001



WASHINGTON BOULEVARD NORTH
 ARLINGTON COUNTY CENTERLINE N85° 05' 33"E

LINE TABLE

LINE	BEARING	LENGTH
L1	S6°39'4.2"E	3.50'
L2	N85°03'03"E	107.94'
L3	N46°10'04"E	7.79'
L4	N4°26'28"W	8.37'
L5	N44°36'27"W	11.33'
L6	N45°23'33"E	4.70'
L7	N46°10'04"E	21.01'

GRAPHIC SCALE



SCALE: 1" = 25'

ARLINGTON, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 ENGINEERING BUREAU - SURVEY SECTION

PLAT SHOWING
 EASEMENT FOR PUBLIC SIDEWALK, UTILITIES,
 AND DRAINAGE PURPOSES
 AND
 TEMPORARY CONSTRUCTION EASEMENT ON
 PART LOTS 238 THROUGH 241
 BLOCK 6

WOOD-HARMON'S ADDITION TO
 CLARENDON

D. B. 102, PG. 138
 ARLINGTON COUNTY, VIRGINIA

SCALE: 1" = 25' DRAWN BY: JMB CHECKED BY: RLF

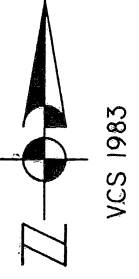
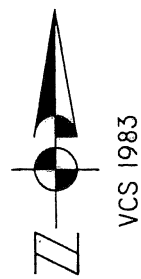
CADD FILE: PLATS\MAR53\03\RPC15078001 ESMT.DWG

APPROVED: 9-30-16

APPROVED: 9-30-2016

County Surveyor Signature

Subdivision & Bonds Administrator Signature



MATCH LINE

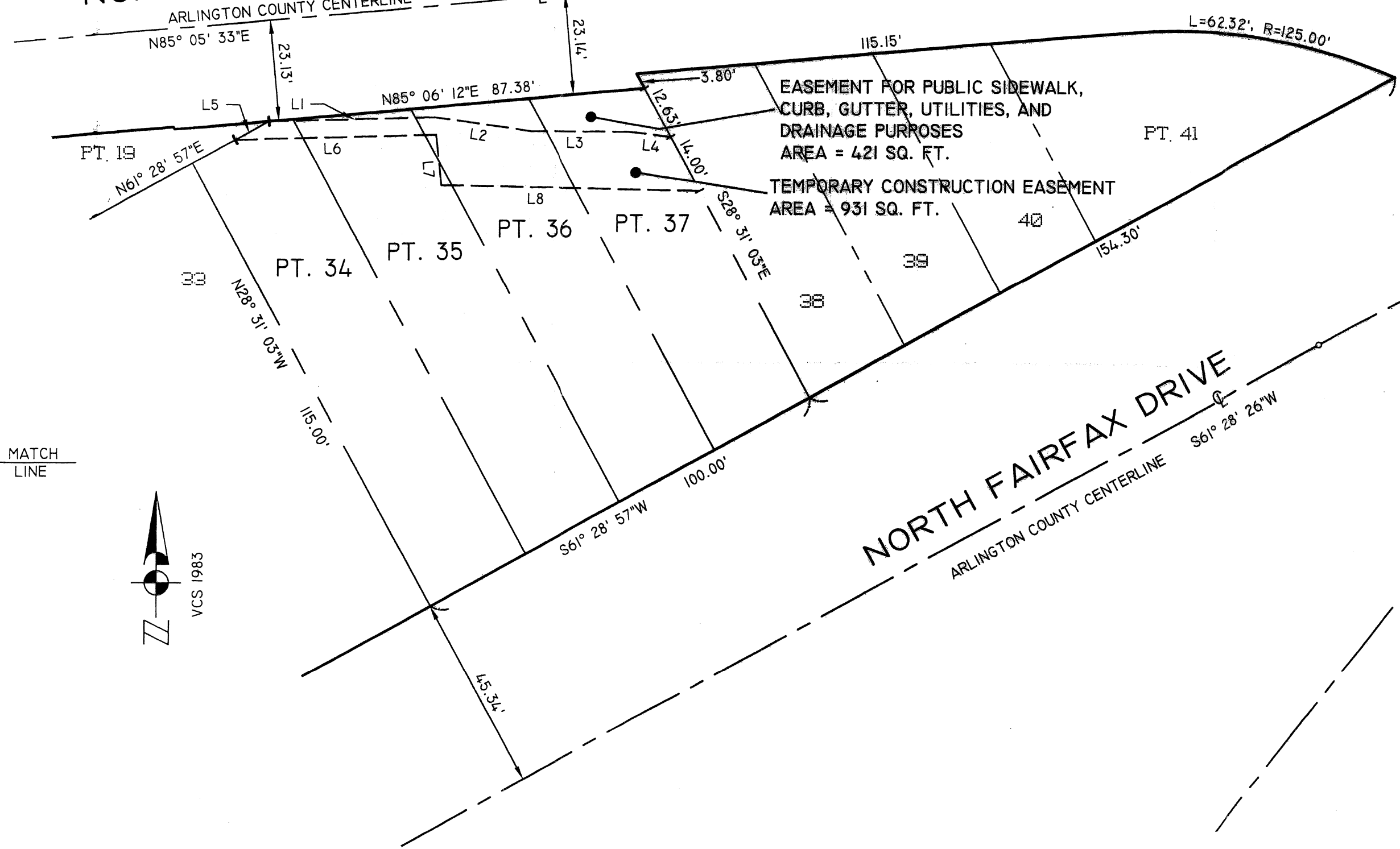
NORTH WASHINGTON BOULEVARD
ARLINGTON COUNTY CENTERLINE

ARLINGTON COUNTY CENTERLINE
WILSON BOULEVARD
ARLINGTON COUNTY CENTERLINE
NORTH WASHINGTON BOULEVARD

NORTH FAIRFAX DRIVE
ARLINGTON COUNTY CENTERLINE

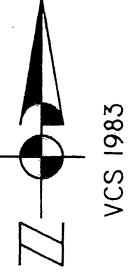
ARLINGTON COUNTY CENTERLINE
WILSON BOULEVARD

EASEMENT FOR PUBLIC SIDEWALK,
CURB, GUTTER, UTILITIES, AND
DRAINAGE PURPOSES
AREA = 421 SQ. FT.
TEMPORARY CONSTRUCTION EASEMENT
AREA = 931 SQ. FT.



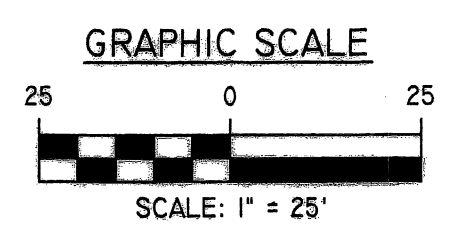
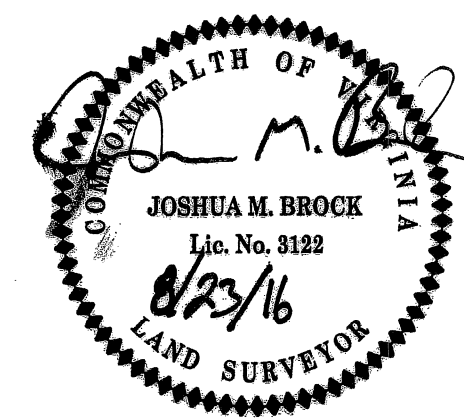
MATCH LINE

MATCH LINE



MATCH LINE

LINE TABLE		
LINE	BEARING	LENGTH
L1	N88°35'12"E	38.10'
L2	S81°35'29"E	22.60'
L3	S89°37'38"E	23.00'
L4	S83°21'30"E	9.71'
L5	N61°28'57"E	8.84'
L6	N88°33'25"E	46.28'
L7	S5°57'59"E	11.60'
L8	S88°42'47"E	60.08'

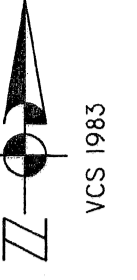
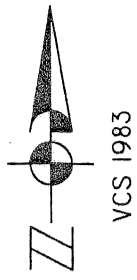


PART OF RPC 15088002
OWNER: MOST REVEREND THOMAS J. WELSH
D.B. 1890, PG. 49
ADDRESS: WASHINGTON BOULEVARD

ARLINGTON, VIRGINIA
DEPT. MENT OF ENVIRONMENTAL SERVICES
ENGINEERING BUREAU - SURVEY SECTION

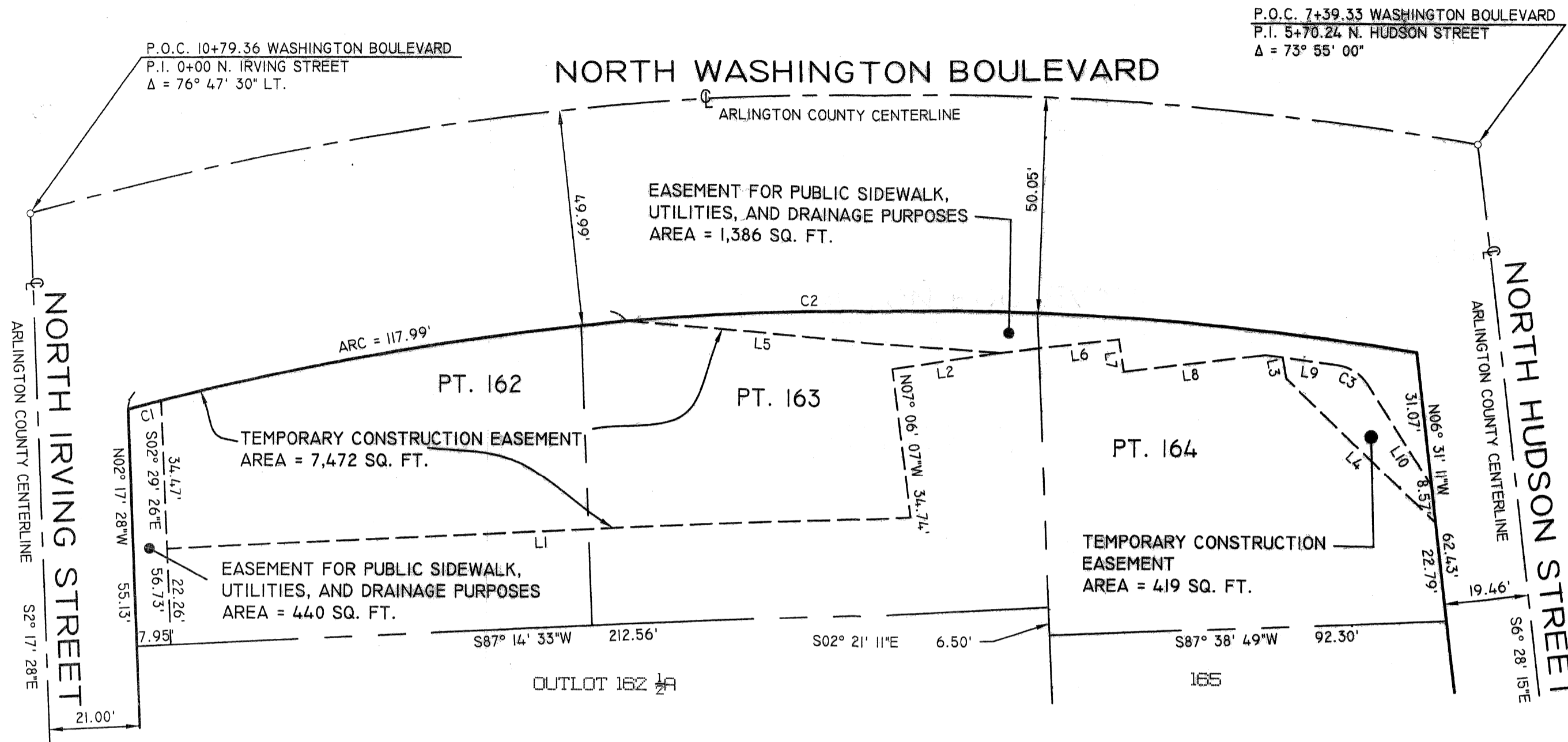
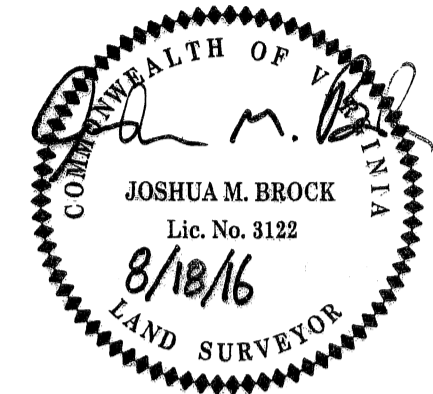
PLAT SHOWING
EASEMENT FOR PUBLIC SIDEWALK, CURB, GUTTER,
UTILITIES, AND DRAINAGE PURPOSES; AND TEMPORARY
CONSTRUCTION EASEMENT
ON
PART LOTS 34 TO 37
RAUSCHER'S SUBDIVISION
D. B. 129, PG. 221
ARLINGTON COUNTY, VIRGINIA

SCALE : 1" = 25' DRAWN BY : JMB CHECKED BY : RLF
CADD FILE : PLATS\MAP53\07\RPC15088002 ESMT.DWG
APPROVED : 8-23-16 APPROVED : 9-6-2016
County Surveyor Subdivision & Bonds Administrator



WASHINGTON BOULEVARD
 C/L CURVE DATA
 P.I. = 8+60.87
 R = 775.80'
 A = 911.37'
 T = 516.50'
 Δ = 67° 18' 30"

100% REVIEW

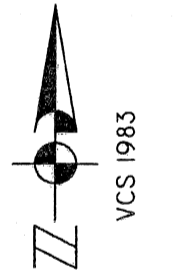


MATCH LINE

MATCH LINE

CURVE TABLE						
CURVE	RADIUS	DELTA	ARC	TANGENT	CHORD	CHORD BEARING
C1	724.80'	0°37'37"	7.95'	3.97'	7.93'	N75°35'56"E
C2	724.80'	23°54'32"	302.45'	153.46'	300.26'	N87°14'24"E
C3	10.00'	49°58'22"	8.72'	4.66'	8.45'	N57°23'16"W

LINE TABLE		
LINE	BEARING	LENGTH
L1	N87°14'33"E	173.44'
L2	N81°43'51"E	25.40'
L3	S9°51'11"E	4.89'
L4	S46°15'51"E	48.25'
L5	S85°41'50"E	87.47'
L6	N83°24'18"E	27.64'
L7	S8°38'09"E	7.60'
L8	N82°49'37"E	32.99'
L9	S82°22'27"E	17.03'
L10	S32°24'06"E	27.70'

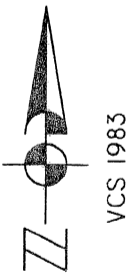
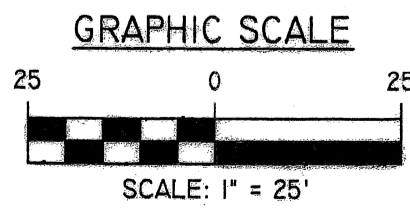


PART OF RPC 19004008
 OWNER: CLARENDON TRUST COMPANY
 D.B. 1790, PG. 86
 ADDRESS: 3140 WASHINGTON BOULEVARD

ARLINGTON, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 ENGINEERING BUREAU - SURVEY SECTION

PLAT SHOWING
 EASEMENTS FOR PUBLIC SIDEWALK, UTILITIES, AND DRAINAGE
 PURPOSES; AND TEMPORARY CONSTRUCTION EASEMENTS
 ON
 PART LOTS 162-164
**MOORE'S ADDITION TO
 CLARENDON**
 D. B. 115, PG. 504
 ARLINGTON COUNTY, VIRGINIA

SCALE : 1" = 25'	DRAWN BY : JMB	CHECKED BY : RLF
CADD FILE : PLATS\MAP53\03\RPC19004008 ESMT.DWG		
APPROVED : 8-18-16 <i>Paul L. Zimmerman</i> COUNTY SURVEYOR	APPROVED : 8-18-2016 <i>Stacy H. ...</i> SUBDIVISION & BONDS ADMINISTRATOR	



MATCH LINE