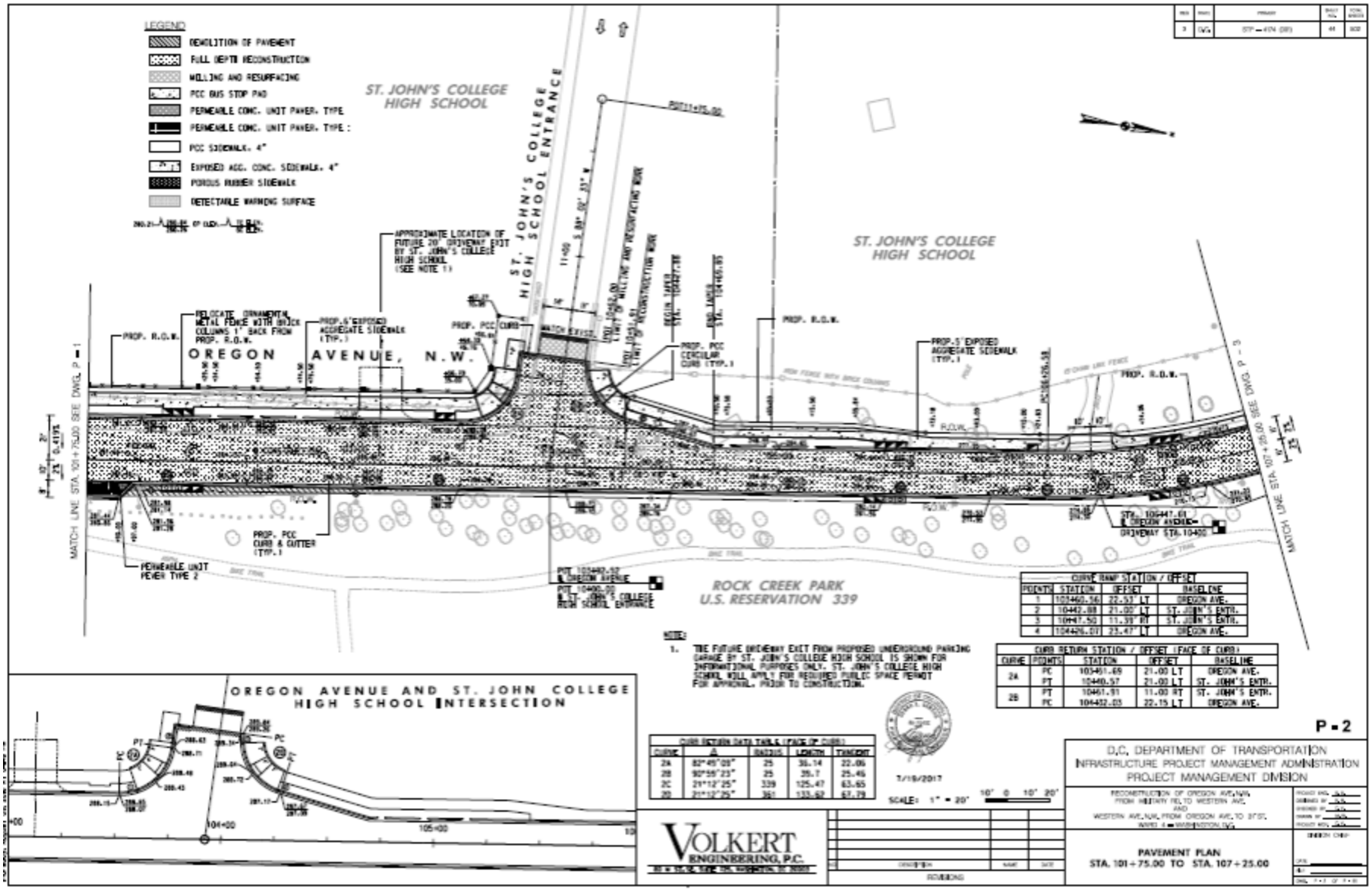


CURVE RAMP STATION / OFFSET			
POINTS	STATION	OFFSET	BASELINE
1	103460.56	22.53' LT	OREGON AVE.
2	10447.88	21.00' LT	ST. JOHN'S ENTR.
3	10441.50	11.39' RT	ST. JOHN'S ENTR.
4	104426.07	23.47' LT	OREGON AVE.

CURB RETURN STATION / OFFSET (FACE OF CURB)				
CURVE	POINTS	STATION	OFFSET	BASELINE
2A	PC	103451.69	21.00 LT	OREGON AVE.
	PT	10440.57	21.00 LT	ST. JOHN'S ENTR.
2B	PT	10461.91	11.00 RT	ST. JOHN'S ENTR.
	PC	106432.03	22.15 LT	OREGON AVE.

NOTE:
1. THE FUTURE DRIVEWAY EXIT FROM PROPOSED UNDERGROUND PARKING GARAGE BY ST. JOHN'S COLLEGE HIGH SCHOOL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ST. JOHN'S COLLEGE HIGH SCHOOL WILL APPLY FOR REQUIRED PUBLIC SPACE PERMIT FOR APPROVAL PRIOR TO CONSTRUCTION.

CURB RETURN DATA TABLE (FACE OF CURB)				
CURVE	Δ	RADIUS	LENGTH	TANGENT
2A	82°45'09"	25	36.14	22.06
2B	90°55'23"	25	39.7	25.46
2C	21°12'25"	339	125.47	63.65
2D	21°12'25"	361	133.62	67.79

7/19/2017

SCALE: 1" = 20' 10' 0 10' 20'

P - 2

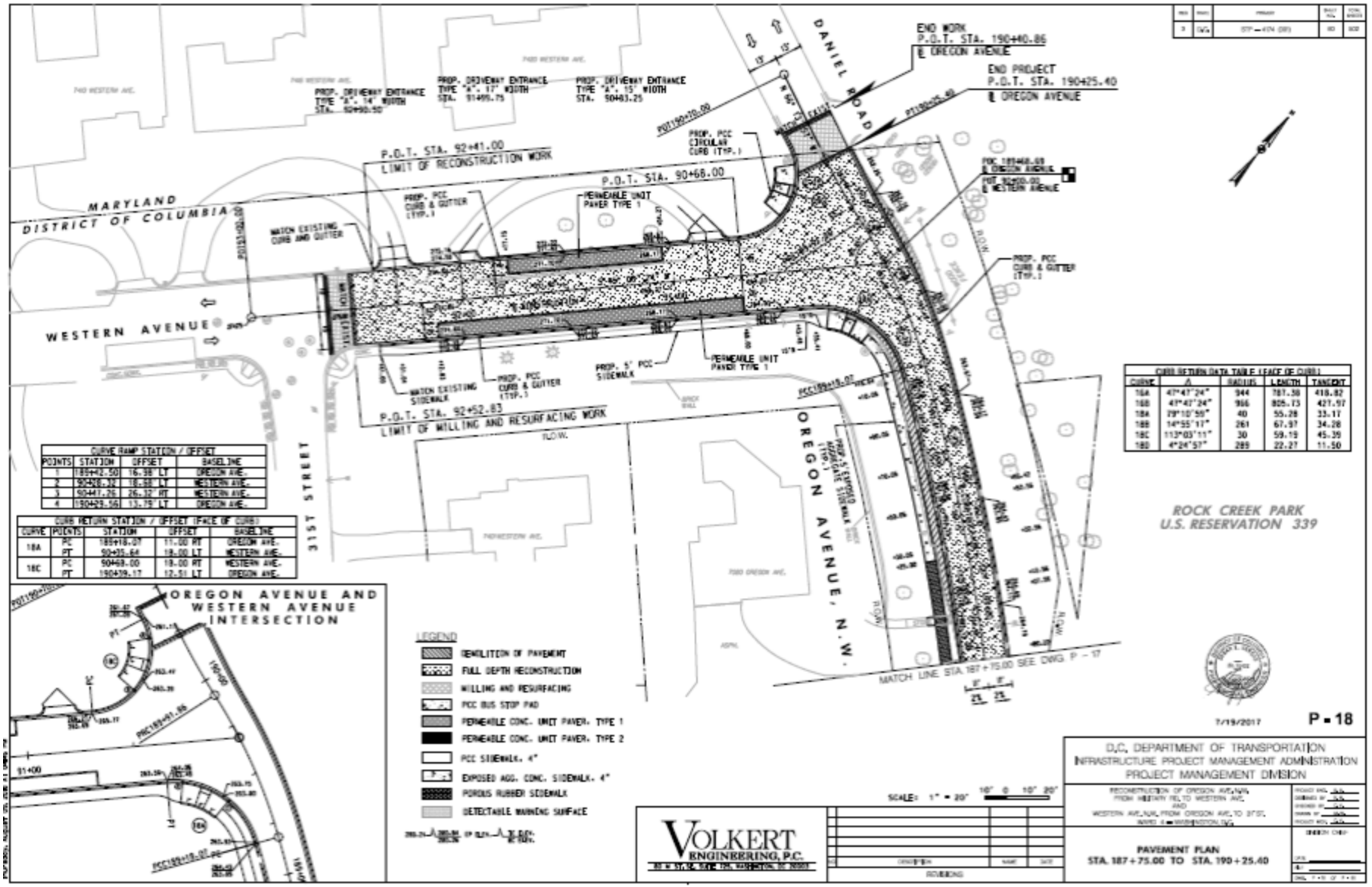
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 37'ST. WARD 4 — WASHINGTON, D.C.

PAVEMENT PLAN
STA. 101+75.00 TO STA. 107+25.00

VOLKERT ENGINEERING, P.C.

DESIGNATION	NAME	DATE
REVISIONS		



CURVE RAMP STATION / OFFSET			
POINTS	STATION	OFFSET	BASELINE
1	189+42.50	16.38' LT	OREGON AVE.
2	90+38.32	18.88' LT	WESTERN AVE.
3	90+47.26	26.32' RT	WESTERN AVE.
4	190+29.56	13.79' LT	OREGON AVE.

CURB RETURN STATION / OFFSET (FACE OF CURB)				
CURVE	POINTS	STATION	OFFSET	BASELINE
18A	PC	189+18.07	11.00 RT	OREGON AVE.
	PT	90+35.64	18.00 LT	WESTERN AVE.
18C	PC	90+69.00	18.00 RT	WESTERN AVE.
	PT	190+19.17	12.51 LT	OREGON AVE.

CURB RETURN DATA TABLE (FACE OF CURB)				
CURVE	Δ	RADIUS	LENGTH	TANGENT
18A	47°47'24"	944	787.38	418.82
18B	47°47'24"	986	805.73	427.97
18A	79°10'59"	40	55.28	33.17
18B	14°55'17"	261	67.97	34.28
18C	113°03'11"	30	59.19	45.39
18D	4°24'57"	289	22.27	11.50

OREGON AVENUE AND WESTERN AVENUE INTERSECTION

LEGEND

- DEMOLITION OF PAVEMENT
- FULL DEPTH RECONSTRUCTION
- MILLING AND RESURFACING
- PCC BUS STOP PAD
- PERMEABLE CONC. UNIT PAVER, TYPE 1
- PERMEABLE CONC. UNIT PAVER, TYPE 2
- PCC SIDEWALK, 4"
- EXPOSED AGG. CONC. SIDEWALK, 4"
- POROUS RUBBER SIDEWALK
- DETECTABLE WARNING SURFACE

SCALE: 1" = 20'

VOLKERT ENGINEERING, P.C.

7/19/2017

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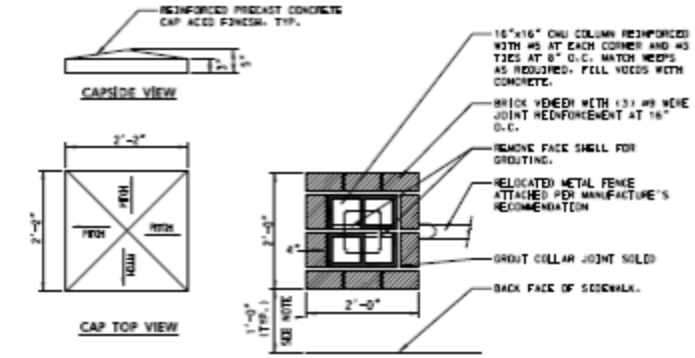
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

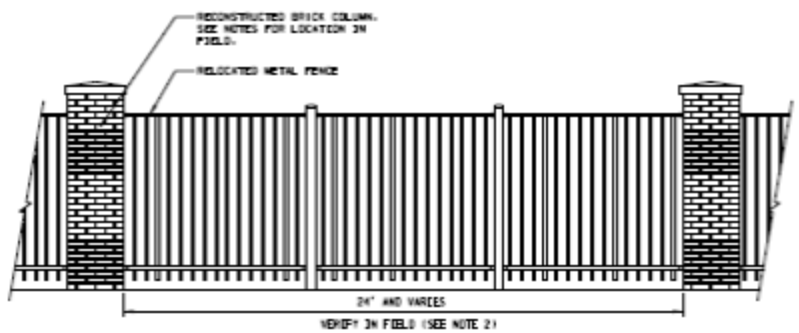
RECONSTRUCTION OF OREGON AVE, NW. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE., NW. FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON, D.C.

PAVEMENT PLAN
STA. 187+75.00 TO STA. 190+25.40



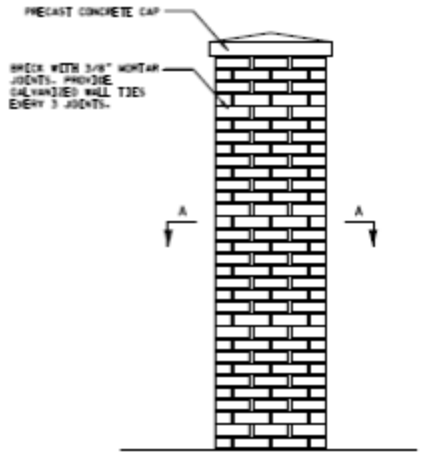
BRICK COLUMN

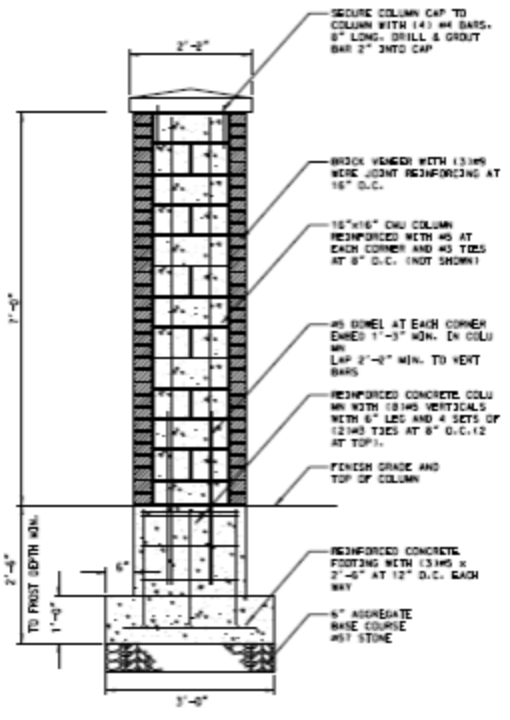
SCALE: 1"=1'



FENCE AND BRICK COLUMN

SCALE: 1/2"=1'





BRICK COLUMN

SCALE: 1"=1'

NOTES:

1. CONTRACTOR SHALL LOCATE FACE OF COLUMN 1 FOOT FROM BACK OF SIDEWALK.
2. CONTRACTOR SHALL VERIFY IN THE FIELD LENGTH OF EACH THREE PANEL METAL FENCE SEGMENT TO BE REUSED AND LOCATE COLUMNS ACCORDINGLY.
3. COLUMNS AND FENCE SHALL BE PLUMB.

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7/13/2017

VOLKERT ENGINEERING, P.C.

NO	DESCRIPTION	NAME	DATE
	REVISIONS		

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

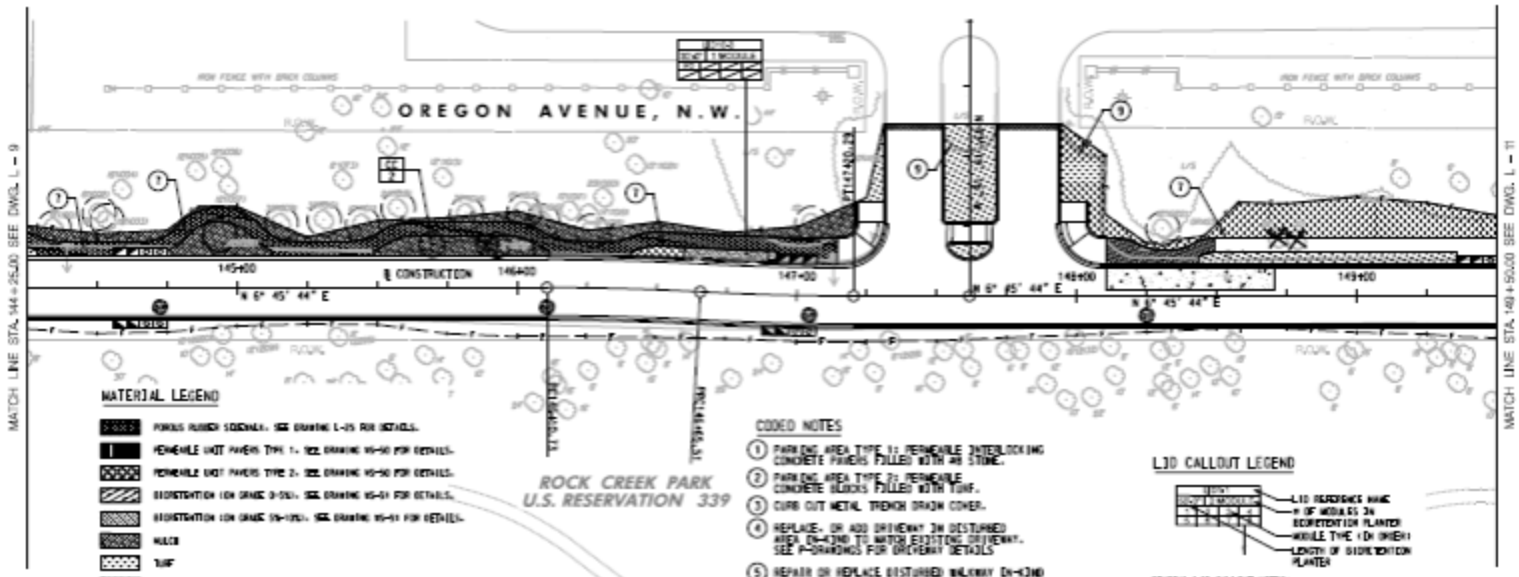
RECONSTRUCTION OF ORDSON AVE./SAVA FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE./NW. FROM ORDSON AVE. TO 37ST. WARD 3 – WASHINGTON, D.C.

PAVEMENT DETAILS – 6

TREE INVENTORY – WEST SIDE OF OREGON AVE				
TREE ID #	D.B.H.	COMMON NAME	SCIENTIFIC NAME	CONDITION
1001	18	Maple	Acer spp.	Good
1002	6	American Beech	Fagus grandifolia	Good
1003	12	Maple	Acer spp.	Good
1004	16	American Beech	Fagus grandifolia	Good
1005	12	American Beech	Fagus grandifolia	Good
1006	12	American Beech	Fagus grandifolia	Good
1007	12	American Beech	Fagus grandifolia	Good
1008	42	Oak	Quercus spp.	Good
1009	32	American Sweetgum	Liquidambar styraciflua	Good
1010	32	American Sweetgum	Liquidambar styraciflua	Good
1011	10	Oak	Quercus spp.	Good
1012	24	American Sweetgum	Liquidambar styraciflua	Good
1013	12	Oak	Quercus spp.	Good
1014	32	Oak	Quercus spp.	Good
1015	15	Oak	Quercus spp.	Good

TREE INVENTORY – WEST SIDE OF OREGON AVE				
TREE ID #	D.B.H.	COMMON NAME	SCIENTIFIC NAME	CONDITION
1016	22	Oak	Quercus spp.	Good
1017	10	Oak	Quercus spp.	Good
1018	8	Oak	Quercus spp.	Good
1019	14	Oak	Quercus spp.	Good
1020	20	Oak	Quercus spp.	Good
1021	15	Oak	Quercus spp.	Good
1022	12	Maple	Acer spp.	Good

TREE INVENTORY – EAST SIDE OF OREGON AVE				
TREE ID #	D.B.H.	COMMON NAME	SCIENTIFIC NAME	CONDITION
2128	8	American Elm	Ulmus americana	Good
2132	16	Black Tupelo	Nyssa sylvatica	Good



MATERIAL LEGEND

- POROUS RUBBER SIDEWALK. SEE DRAWING L-25 FOR DETAILS.
- PERMEABLE UNIT PAVERS TYPE 1. SEE DRAWING VS-50 FOR DETAILS.
- PERMEABLE UNIT PAVERS TYPE 2. SEE DRAWING VS-50 FOR DETAILS.
- BIORETENTION (ON GRADE 0-5%). SEE DRAWING VS-51 FOR DETAILS.
- BIORETENTION (ON GRADE 5%-12%). SEE DRAWING VS-51 FOR DETAILS.
- MULCH
- TURF
- ROCK FILL MATERIAL. SEE CS-DRAWINGS
- EXISTING TREE TO BE REMOVED. SEE DRAWING L-19
- TREE PROTECTION. SEE DRAWING L-19
- NEW TREE PLANTING. SEE DRAWINGS L-19 AND L-20.
- NATURAL LOOKING BOULDERS (APPROX. HEIGHT 3', APPROX. LENGTH 3'). SEE DRAWING L-21 FOR DETAILS.
- LIMIT OF DISTURBANCE (CUT)
- LIMIT OF DISTURBANCE (FILL)

CODED NOTES

1. PARKING AREA TYPE 1: PERMEABLE INTERLOCKING CONCRETE PAVERS FILLED WITH #8 STONE.
2. PARKING AREA TYPE 2: PERMEABLE CONCRETE BLOCKS FILLED WITH TURF.
3. CURB CUT METAL TRENCH DRAIN COVER.
4. REPLACE, OR ADD DRIVEWAY IN DISTURBED AREA (4-FT) TO MATCH EXISTING DRIVEWAY. SEE A-DRAWINGS FOR DRIVEWAY DETAILS
5. REPAIR OR REPLACE DISTURBED WALKWAY (4-FT)
6. SIDEWALK BUS STOP. EXPOSED AGGREGATE CONCRETE
7. SEE L-25 FOR DETAILS OF POROUS RUBBER SIDEWALK
8. COVER DISTURBED AREAS (BETWEEN CURB AND LIMIT OF WORK WITH A WOODLAND OPENINGS SEED MIX. SEE L-19. USE EROSION CONTROL MATTING TYPE B FOR SWALES 3:1 AND STEEPER.
9. REMOVE EXISTING CURB AND EXTEND PLANTING AREA

L.I.D CALLOUT LEGEND

GENERAL L.I.D CALLOUT NOTES:
1. SEE DRAWING L-20 AND L-20 FOR PLANTING LAYOUT FOR EACH NO
2. SEE DRAWING L-26 AND L-27 FOR BIORETENTION PLANTER PLAN I

L - 10

SCALE: 1" = 20'

7/19/2017

VOLKERT ENGINEERING, P.C.

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, N.W. FROM OREGON AVE. TO 37'ST. WARD 4 – WASHINGTON, D.C.

LANDSCAPE PLAN
STA. 144+25.00 TO STA. 149+50.00

EXISTING TREES TO BE REMOVED ON THE WEST SIDE OF OREGON AVENUE

STATION	CALIPER	TYPE	CONDITION	STREET TREES	GENERAL TREES	PARK TREES	REPLACEMENT TREES IN COMPENSATION
107+58	14"	NON-HARDWOOD	POOR	X			(1) 2" CALIPER TREES
108+38	18"	DECIDUOUS	POOR		X		N/A
108+42	17"	DECIDUOUS	POOR		X		N/A
109+55	48"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
109+41	17"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
109+99	8"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
109+18	18"	EVERGREEN	POOR		X		N/A
109+85	18"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
109+85	24"	DECIDUOUS	POOR		X		N/A
109+85	24"	DECIDUOUS	POOR		X		N/A
109+87	36"	DECIDUOUS	POOR		X		N/A
113+43	18"	DECIDUOUS	POOR		X		N/A
113+52	12"	DECIDUOUS	POOR		X		N/A
115+66	8"	DECIDUOUS	FAIR	X			(4) 2" CALIPER TREES
116+01	8"	DECIDUOUS	FAIR	X			(4) 2" CALIPER TREES
121+06	8"	DECIDUOUS	GOOD	X			(3) 2" CALIPER TREES
145+96	11"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
149+72	28"	DECIDUOUS	FAIR	X			(13) 2" CALIPER TREES
149+76	30"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
151+05	24	DECIDUOUS	POOR		X		
152+05	12"	EVERGREEN	FAIR	X			(6) 2" CALIPER TREES
152+05	12"	NON-HARDWOOD	FAIR	X			(6) 2" CALIPER TREES
152+64	28"	DECIDUOUS	FAIR		X		(14) 2" CALIPER TREES
152+77	8"	DECIDUOUS	FAIR	X			(4) 2" CALIPER TREES
153+01	8"	DECIDUOUS	FAIR		X		N/A
153+09	10"	DECIDUOUS	FAIR		X		N/A
153+12	8"	DECIDUOUS	FAIR		X		N/A
153+27	18"	DECIDUOUS	FAIR	X			(9) 2" CALIPER TREES
153+31	24"	DECIDUOUS	FAIR	X			(12) 2" CALIPER TREES
154+01	36"	DECIDUOUS	FAIR	X			(17) 2" CALIPER TREES
160+11	14"	DECIDUOUS	GOOD	X			(7) 2" CALIPER TREES
							102 TREES

EXISTING TREES TO BE REMOVED ON THE EAST SIDE OF OREGON AVENUE

STATION	CALIPER	TYPE	CONDITION	STREET TREES	GENERAL TREES	PARK TREES	REPLACEMENT TREES IN COMPENSATION
107+58	28"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
108+88	18"	DECIDUOUS	POOR			X	(9) 2" CALIPER TREES
110+95	8"	DECIDUOUS	FAIR			X	(4) 2" CALIPER TREES
111+41	26"	DECIDUOUS	FAIR	X			(13) 2" CALIPER TREES
111+42	10"	DECIDUOUS	POOR			X	(5) 2" CALIPER TREES
112+82	18"	DECIDUOUS	FAIR	X			(9) 2" CALIPER TREES
113+27	10"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
113+36	18"	DECIDUOUS	GOOD	X			(9) 2" CALIPER TREES
113+46	8"	DECIDUOUS	FAIR	X			(3) 2" CALIPER TREES
116+48	12"	DECIDUOUS	POOR			X	(6) 2" CALIPER TREES
116+62	16"	DECIDUOUS	POOR			X	(8) 2" CALIPER TREES
119+05	10"	DECIDUOUS	POOR			X	(5) 2" CALIPER TREES
119+30	16"	DECIDUOUS	GOOD	X			(8) 2" CALIPER TREES
119+46	12"	DECIDUOUS	FAIR	X			(6) 2" CALIPER TREES
119+48	8" & 6"	DECIDUOUS	FAIR	X			(8) 2" CALIPER TREES
119+48	8" & 6"	DECIDUOUS	FAIR	X			(7) 2" CALIPER TREES
119+93	16"	DECIDUOUS	POOR			X	(8) 2" CALIPER TREES
119+59	8" & 6"	DECIDUOUS	FAIR	X			(8) 2" CALIPER TREES
121+46	8"	DECIDUOUS	FAIR	X			(3) 2" CALIPER TREES
121+62	12"	DECIDUOUS	POOR	X			(1) 2" CALIPER TREES
121+87	16"	DECIDUOUS	FAIR	X			(8) 2" CALIPER TREES
122+38	22"	DECIDUOUS	POOR			X	(11) 2" CALIPER TREES
151+05	8"	DECIDUOUS	FAIR	X			(4) 2" CALIPER TREES
154+74	8"	DECIDUOUS	POOR			X	(3) 2" CALIPER TREES
154+78	26"	DECIDUOUS	POOR			X	(13) 2" CALIPER TREES
154+90	8"	DECIDUOUS	POOR			X	(4) 2" CALIPER TREES
154+94	10"	DECIDUOUS	POOR			X	(5) 2" CALIPER TREES
155+13	8"	DECIDUOUS	POOR			X	(4) 2" CALIPER TREES
156+78	8"	DECIDUOUS	FAIR	X			(4) 2" CALIPER TREES
157+39	10"	DECIDUOUS	FAIR			X	(5) 2" CALIPER TREES
159+53	6" & 8"	DECIDUOUS	FAIR			X	(7) 2" CALIPER TREES
159+27	14"	DECIDUOUS	POOR			X	(7) 2" CALIPER TREES
159+90	12"	DECIDUOUS	POOR			X	(6) 2" CALIPER TREES
161+01	24"	DECIDUOUS	POOR			X	(12) 2" CALIPER TREES
159+48	8"	DECIDUOUS	FAIR			X	(3) 2" CALIPER TREES
160+90	8"	DECIDUOUS	FAIR	X			(4) 2" CALIPER TREES
							209 TREES

TREE COMPENSATION

STREET TREES - TREES IN THE ROW WITHIN 10-0" OF EDGE OF ROADWAY
DECIDUOUS INCH FOR INCH REPLACEMENT FOR ALL STREET TREES
POOR CONDITION CHING OR DEAD - ONE TREE FOR ONE TREE

GENERAL TREES - TREES BEYOND 10-0" OF EDGE OF ROADWAY, NOT WITHIN NPS PROPERTY
DECIDUOUS INCH FOR INCH REPLACEMENT FOR TREES 30" DIAMETER AND LARGER (10-0" CALIPER OR GREATER) TREES
POOR CONDITION CHING OR DEAD - NO COMPENSATION REQUIRED
TREES LESS THAN 30" DIAMETER INCHES (10-0" CALIPER) NO COMPENSATION REQUIRED

PARK TREES - TREES WITHIN NPS PROPERTY

TREE REMOVAL	
	4 GOOD
	29 FAIR
	34 POOR
	66 TOTAL

* PLANT LIST FOR NON-NATIVES - SEE DRAWING L-20 AND L-21 FOR ADDITIONAL PLANT LIST

NO.	DATE	REVISION	PROJECT NO.	TOTAL SHEETS
3	7/15/2017	CTP — 60% (SP)	164	302

STREET TREES (TREES BETWEEN SIDEWALK AND ROADWAY, NOT IN A DEPRESSION PLANTER)

QTY	KEY	GENUS	SPECIES	VARIETY	COMMON NAME	CALIPER	HEIGHT	REMARKS
6	CC	CERCIS	CANADENSIS		EASTERN REDBUD		6'-8'	B&B, FULL SYMMETRICAL CROWN, STAKED TO BE A MINIMUM OF FULL BRANCHING, FULL SPECIMEN
3	HS	HAESUS	GLABRA [SYN.]		AMERICAN HORSE CHESTNUT	2-2½"		B&B, FULL SYMMETRICAL CROWN, STAKED TO BE A MINIMUM OF FULL BRANCHING, FULL SPECIMEN
6	PO	PLATANUS	OCCIDENTALIS		AMERICAN SYCAMORE	2-2½"		B&B, FULL SYMMETRICAL CROWN, STAKED TO BE A MINIMUM OF FULL BRANCHING, FULL SPECIMEN
3	QR	QUERCUS	RUBRA		RED OAK	2-2½"		B&B, FULL SYMMETRICAL CROWN, STAKED TO BE A MINIMUM OF FULL BRANCHING, FULL SPECIMEN

UNDERSTORY TREES

QTY	KEY	GENUS	SPECIES	VARIETY	COMMON NAME	CALIPER	HEIGHT	REMARKS
16	AS	AMELANCHIER	X GRANDIFLORA	AUTUMN BRILLIANCE	APPLE SERVICEBERRY		6'-8'	B&B, MULTI-STEMS, STAKED TO BE A MINIMUM OF FULL SYMMETRICAL SPECIMEN
28	CE	CERCIS	CANADENSIS		EASTERN REDBUD		6'-8'	B&B, FULL SYMMETRICAL CROWN, STAKED TO BE A MINIMUM OF FULL BRANCHING, FULL SPECIMEN

RETAINING WALL PLANTER

SHRUBS

KEY	QTY.	GENUS	SPECIES	VARIETY	SIZE	COMMON NAME
B	7	BUX	SUFFRUTICOSA	COMPACTA	3 GAL	COMPACT ENGLISH BOXWOOD
IV	28	HEDERA	HELIX 'BALTICA'		3 GAL	BALTIC IVY

PERENNIALS

KEY	QTY.	GENUS	SPECIES	VARIETY	SIZE	COMMON NAME
PHE	10	PHLOX	SUBULATA		1 GAL	MOSS PHLOX

GRASSES

KEY	QTY.	GENUS	SPECIES	VARIETY	SIZE	COMMON NAME
PAN	9	PANICUM	VIRGATUM		3 GAL	SWITCHGRASS

WOODLAND OPENING SEED MIX

COMMON NAME	BOTANICAL NAME	PERCENT	COMMENTS
ANNUAL RYEGRASS	Lolium multiflorum (Lolium westerwoldicum)	20%	
VIRGINIA WILDRYE	Elymus virginicus	20%	
HEDGEPARSLEY	Torilis japonica	15%	
SMITHGRASS, SMARTWEED	Persicaria virginiana, Polygonum virginianum	15%	
CREEPING RED FESCUE	Festuca rubra	15%	
AUTUMN WINDFLOWER	Anemone virginiana	10%	
PARTRIDGE PEA	Chamaecrista fasciculata	5%	

GENERAL NOTES AND SPECIFICATIONS:
1. TO PREVENT SOIL EROSION AROUND REFORESTATION SITES, PLANT COVER CROP FOR SOIL RETENTION TO REMAIN UNTIL WOODLAND OPENING SEED MIX IS INSTALLED.
2. RANGE OATS (*Avena sativa*) TO BE PLANTED AS A COVER CROP IN SPRING
3. GRAIN RYE (*Secale cereale*) TO BE PLANTED AS COVER CROP IN THE FALL
4. SEEDING RATE/APPLICATION QUANTITIES TO BASED WEIGHT PER ACRE
5. NOTE PROTOCOL FOR:
- UNDESIRABLE VEGETATION TO BE REMOVED BY TILLING OR DIRECT SPRAYING OF GLYPHOSATE
- LOCATION AND APPLICATION RATE TO BE DETERMINED BY CERTIFIED APPLICATOR, CONTRACTOR AND TO THE LEAST LETTER
- ANY MULCH TO BE PLACED ON COVER CROP SEEDING UNTIL GERMINATION

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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE., N.W.
FROM MILITARY RD. TO WESTERN AVE.,
AND
WESTERN AVE., N.W. FROM OREGON AVE. TO 31ST.
WARD 4 — WASHINGTON, D.C.

PROJECT MGR.
DRAWN BY
DESIGNED BY
CHECKED BY
PROJECT NO. 164

LANDSCAPE PLANTING SCHEDULE
DETAILS – 1

DIVISION CHIEF

DATE
SCALE: 1" = 0" 1" = 0"

7/15/2017

VOLKERT ENGINEERING, P.C.

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

REV	DATE	ISSUE	SHEET NO.	TOTAL SHEETS
3	7/19/2017	95% — 4/24/2017	146	302

PLANT SCHEDULE - TREES ON PUBLIC PARKING

Address	Tree Species Requested	Total Quantity of Trees	Tree Species Provided: Carya glabra - Pignut Hickory (CG)	Fagus grandifolia - American Beech (FG)	Juniperus virginiana - Eastern Red Cedar (JV)	Liriodendron tulipifera - Tulip Poplar (LT)	Nyssa sylvatica - Black Gum (NS)	Platanus occidentalis - AMERICAN SYCAMORE (PO)	Quercus alba - White Oak (QA)	Quercus prinus - Chestnut Oak (QP)	Quercus rubra - Red Oak (QR)	Quercus velutina - Black Oak (QV)
St. John's College High School	1. Quercus rubra - Red Oak 2. Fagus grandiflora - American Beech	12		6							6	
5708 Oregon Avenue	1. Fagus grandiflora - American Beech 2. Nyssa sylvatica - Black Gum 3. Juniperus virginiana - Eastern Red Cedar	2		1			1					1
5720 Oregon Avenue	1. Platanus occidentalis - American Sycamore 2. Quercus velutina - Black Oak 3. Quercus alba - White Oak	3						1				2
5724 Oregon Avenue	Not interested in participating	0										
5810 Oregon Avenue	No Response*	3		2				1				
5820 Oregon Avenue	Not interested in participating	0										
5826 Oregon Avenue	Not interested in participating	0										
5830 Oregon Avenue	1. Nyssa sylvatica - Black Gum 2. Quercus alba - White Oak 3. Quercus rubra - Red Oak	3					1		1		1	
5834 Oregon Avenue	1. Quercus velutina - Black Oak 2. Quercus rubra - Red Oak 3. Juniperus virginiana - Eastern Red Cedar	3			1						1	1
5842 Oregon Avenue	Not interested in participating	0										
5850 Oregon Avenue	No Response*	3	2								1	
5860 Oregon Avenue	No Response*	3			1						1	1
6000 Ritternouse St	No Response*	3				2			1			
6130 Oregon Avenue	1. Nyssa sylvatica - Black Gum	5				5						
3001 Oregon Knolls Drive	Will Participate	2	SEE UNDERSTORY TREES DRAWING L-19.									
3001 Oregon Knolls Drive	Will Participate	2	SEE UNDERSTORY TREES DRAWING L-19.									
3003 Oregon Knolls Drive	Will Participate	7	3	2							2	
Areas within R.O.W. near Pinehurst Branch	Will Participate	10				4		4	2			
Areas within R.O.W. near Pinehurst Branch (NPS)	Will Participate	7		2				3			2	
6818 Oregon Avenue	No Response*	3					1			2		

* Homeowners did not respond to DDOT UFA Request (letter dated 12/12/2016), nor to a follow up request hand delivered on 3/3/2016. Project will include tree planting in areas as shown in the Public Meetings.

Notes:

1. ALL PROPOSED TREES SHALL BE 2" CALIPER, SINGLE-STEM, AND BALLED AND BURLAPPED AT TIME OF INSTALLATION

PLANT SCHEDULE - TREES ON PUBLIC PARKING

Address	Tree Species Requested	Total Quantity of Trees	Tree Species Provided: Carya glabra - Pignut Hickory (CG)	Fagus grandifolia - American Beech (FG)	Juniperus virginiana - Eastern Red Cedar (JV)	Liriodendron tulipifera - Tulip Poplar (LT)	Nyssa sylvatica - Black Gum (NS)	Platanus occidentalis - American Sycamore (PO)	Quercus alba - White Oak (QA	Quercus prinus - Chestnut Oak (QP	Quercus rubra - Red Oak (QR)	Quercus velutina - Black Oak (QV)
6820 Oregon Avenue	No Response*	3						3				
3000 Birch Street	1. Fagus grandiflora - American Beech 2. Platanus occidentalis - American Sycamore 3. Quercus rubra - Red Oak	3		2							1	
3001 Birch Street	No Response*	3									3	
3001 Chestnut Street	Not interested in participating	0										
6870 Oregon Avenue	No Response*	3				2				1		
6880 Oregon Avenue	1. Quercus rubra - Red Oak	2									2	
6900 Oregon Avenue	No Response*	2	1	1								
6940 Oregon Avenue	No Response*	6	1		3						2	
6958 Oregon Avenue	Not interested in participating	0										
6960 Oregon Avenue	Will Participate	3								2		1
6966 Oregon Avenue	Not interested in participating	0										
6972 Oregon Avenue	1. Platanus occidentalis - American Sycamore 2. Quercus rubra - Red Oak	3						2			1	
6980 Oregon Avenue	1. Nyssa sylvatica - Black Gum 2. Carya glabra - Pignut Hickory 3. Quercus alba - White Oak	3					1	2				
6990 Oregon Avenue	No Response*	0										
7000 Oregon Avenue	Not interested in participating	0										
7030 Oregon Avenue	Will Participate	2				1		1				
7022 Oregon Avenue	1. Quercus rubra - Red Oak 2. Quercus alba - White Oak 3. Quercus prinus - Chestnut Oak	3							1	1	1	
7030 Oregon Avenue	Not interested in participating	0										
7034 Oregon Avenue	1. Quercus velutina - Black Oak 2. Quercus rubra - Red Oak 3. Juniperus virginiana - Eastern Red Cedar	2										1
7070 Oregon Avenue	1. Quercus prinus - Chestnut Oak 2. Nyssa sylvatica - Black Gum 3. Quercus rubra - Red Oak	2					1			1		
	Totals:	107	7	16	6	15	6	14	5	7	22	7

L - 20

7/19/2017

VOLKERT ENGINEERING, P.C.
20 M STREET, SUITE 120, WASHINGTON, DC 20001

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

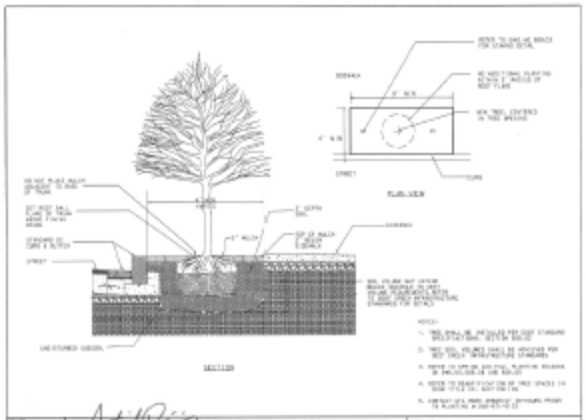
RECONSTRUCTION OF OREGON AVE., NW, FROM MILITARY RD. TO WESTERN AVE., AND WESTERN AVE., NW, FROM OREGON AVE. TO 31ST., RWPD # — WASHINGTON, DC

PROJECT MGR.
DESIGNED BY
DRAWN BY
PROJECT MGR.

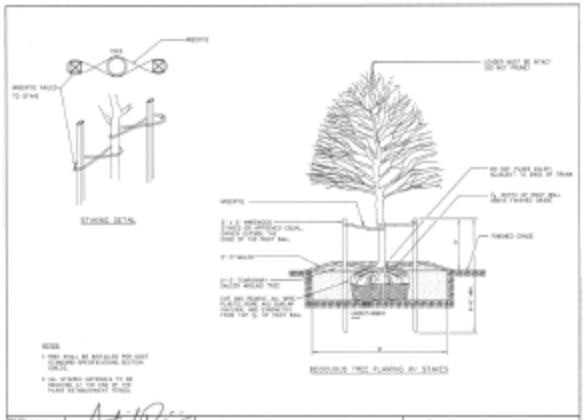
LANDSCAPE PLANTING SCHEDULE DETAILS — 2

DIVISION CHIEF
DATE
APP.
DWG. 1-20 OF 1-20

PROJECT NO.	PHASE	PROJECT	SHEET NO.	TOTAL SHEETS
3	IVA	STP – 474 (28)	147	302

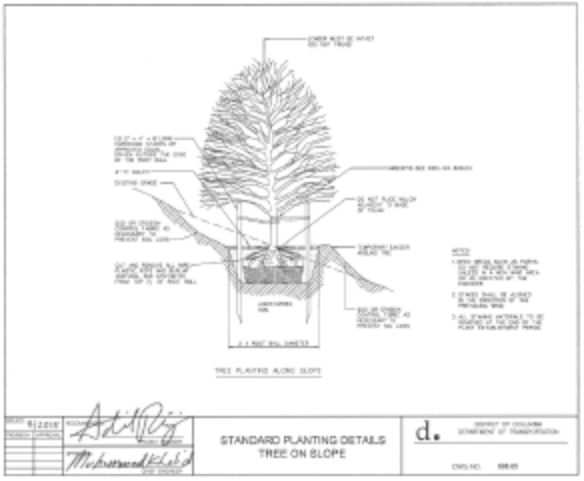


STANDARD PLANTING DETAILS
STREET TREE



STANDARD PLANTING DETAILS
DECIDUOUS TREE

STANDARD PLANTING DETAILS
EVERGREEN TREE



STANDARD PLANTING DETAILS
TREE ON SLOPE

TREE PLANTING NOTES:

1. TREE PLANTING SHALL COMPLY WITH THE CURRENT VERSION OF THE DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES AND STANDARD DRAWINGS NO. 611.10 AND 611.13. DECIDUOUS TREES SHALL ONLY BE PLANTED BETWEEN OCTOBER 15 AND MAY 1 AS PER THE SPRING AND FALL PLANTING SEASON DATES.

2. PEAT MOSS IS NOT ALLOWED FOR USE AS A SOIL AMENDMENT.

3. TREE STAKING SHALL BE AS PER SECTION 608.02 (2013 DDOT STANDARD SPECIFICATIONS.) ONLY 2 STAKES SHALL BE INSTALLED WITH ARBOR TIES. DETAIL AND SPECIFICATION SHALL BE PROVIDED BY UFA.

4. DO NOT PLANT GRASS/SOD WITHIN 4 FT. OF THE ROOT FLARE OF A TREE. FINISH THIS AREA OFF WITH A 2-3" LAYER OF MULCH. BUT DO NOT PLACE UP AGAINST OR MOUND AROUND ROOT FLARE.

5. CONTRACTOR SHALL CONTACT JACK POND (JOHN.POND@DC.GOV) AND ROBERT CORLETTA (ROBERT.CORLETTA@DC.GOV) WHEN THE TREES ARE READY TO BE PLANTED. PROVIDING AT LEAST 48 HOURS NOTICE.

7/19/2017

L - 22

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON, D.C.

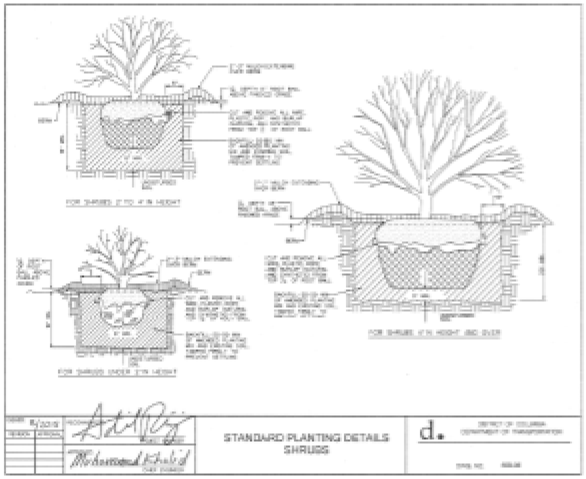
LANDSCAPE DETAILS – 4

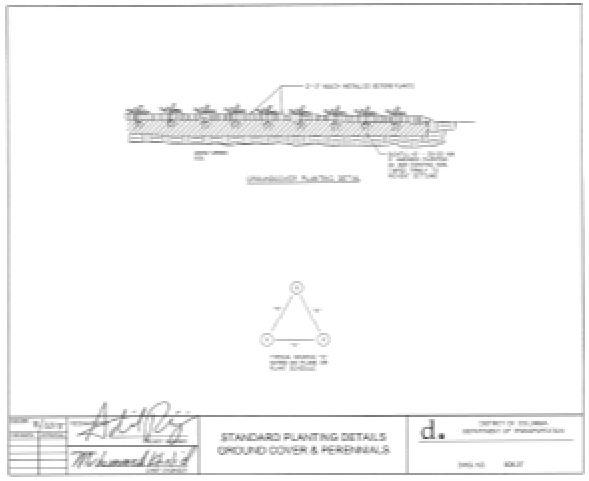
DESIGN CHIEF

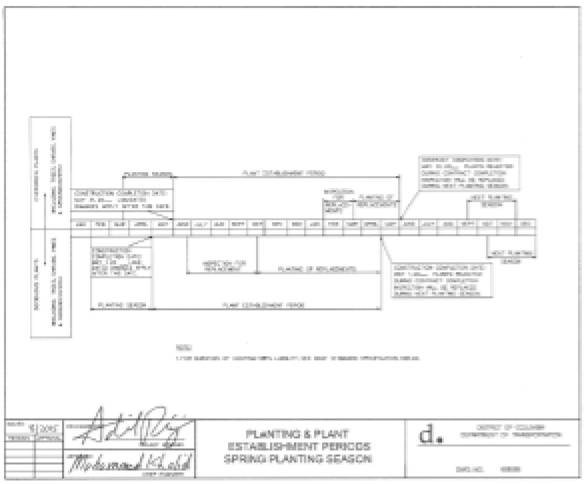
VOLKERT ENGINEERING, P.C.
20 M ST, SE, SUITE 700, WASHINGTON, DC 20003

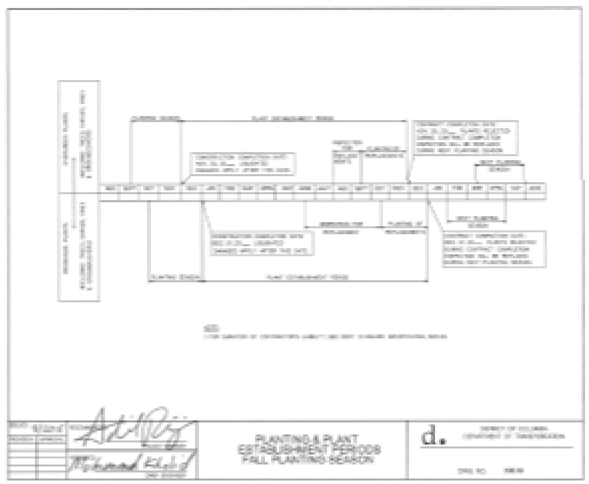
NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

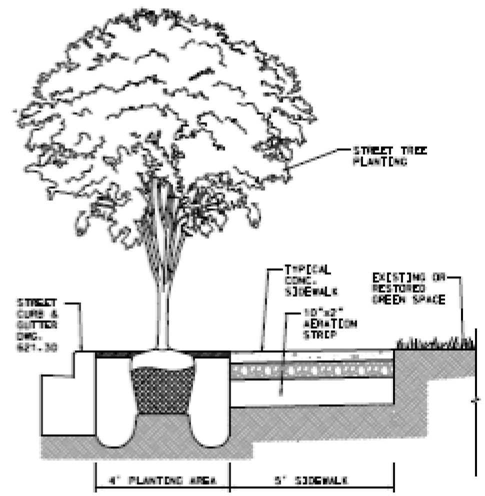
3	D.C.	STP – 4174 (001)	148	302



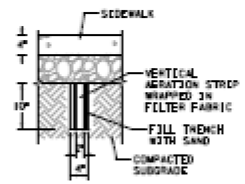








SECTION



NOTE:
PLACE AERATION STRIPS PERPENDICULAR TO PLANTING AREA.

INSTALL THREE STRIPS PER TREE.

SPACE STRIPS AT 5 FEET APART WITH THE CENTER STRIP ALIGNED TO THE TREE TRUNK.

SECTION THROUGH AERATION STRIP

AERATION STRIP UNDER SIDEWALK

7/15/2017

L - 23

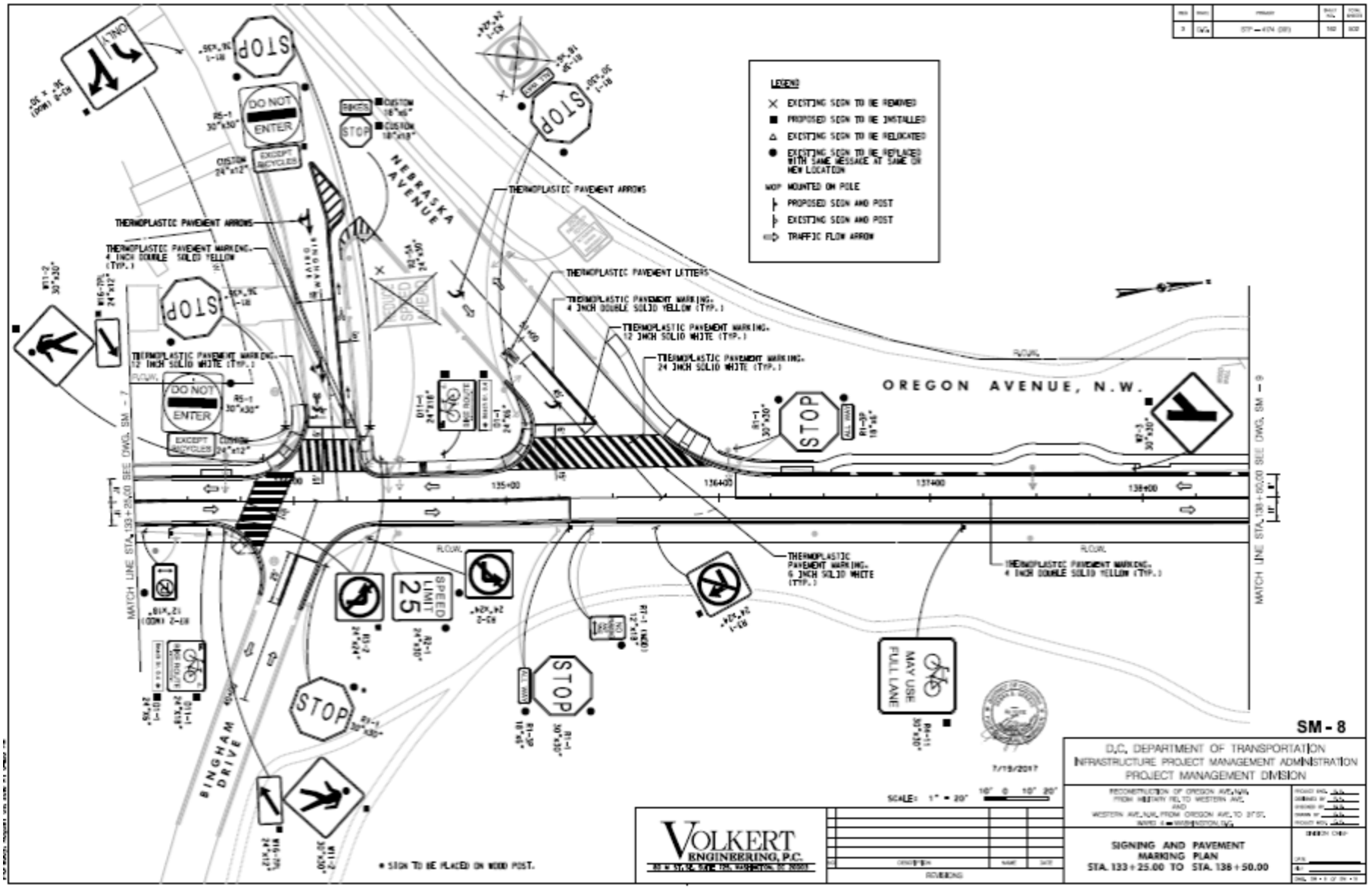
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE. N.W.
FROM MILITARY RD. TO WESTERN AVE.
AND
WESTERN AVE. N.W. FROM OREGON AVE. TO 31ST ST.
WARD 4 – WASHINGTON, D.C.

VOLKERT ENGINEERING, P.C.

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

LANDSCAPE DETAILS – 5



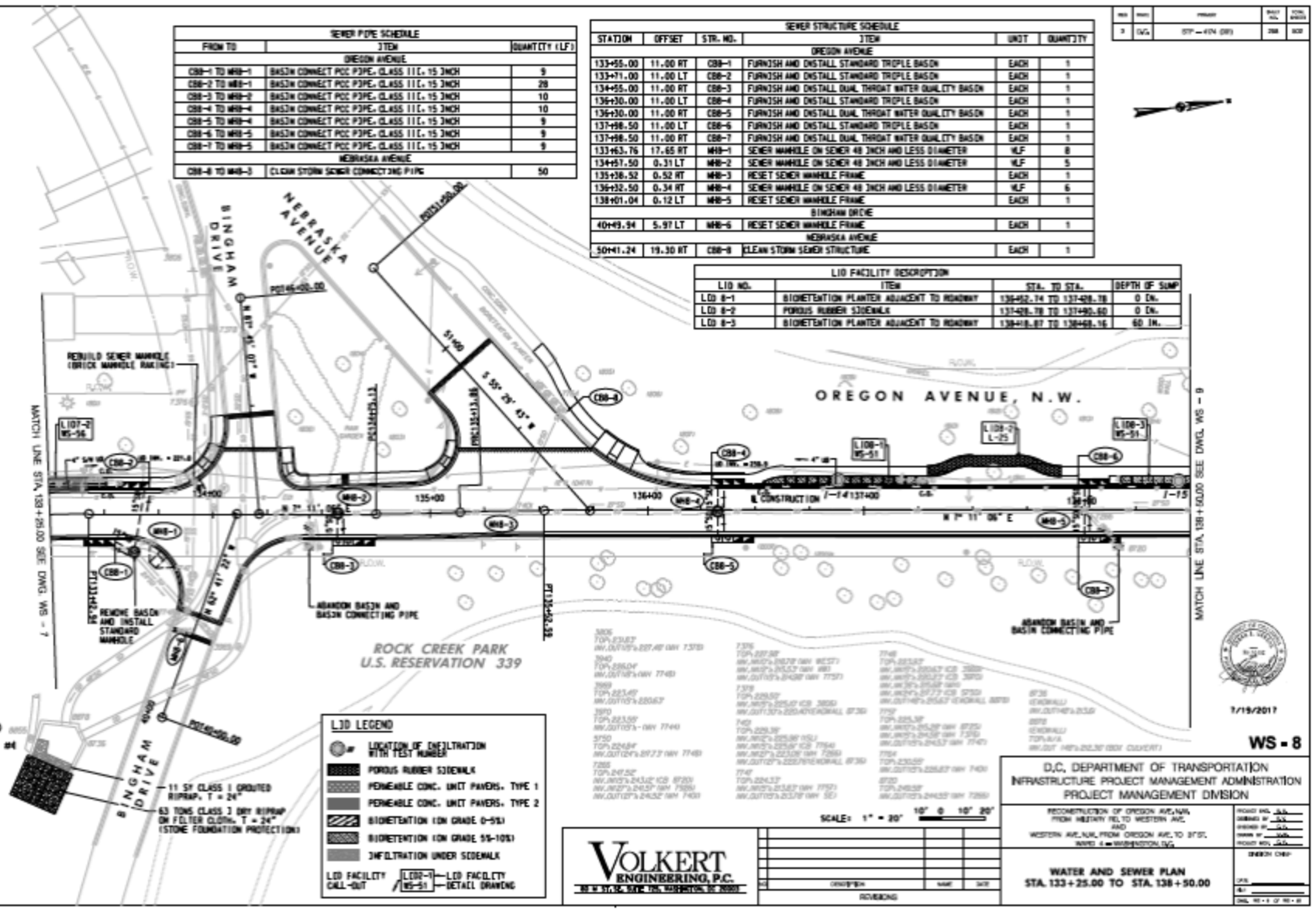
SM - 8

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, N.W. FROM OREGON AVE. TO 31ST. STREET, N.W. – WASHINGTON, D.C.

SIGNING AND PAVEMENT MARKING PLAN
STA. 133+25.00 TO STA. 138+50.00

VOLKERT ENGINEERING, P.C.



SEWER PIPE SCHEDULE		
FROM TO	ITEM	QUANTITY (LF)
OREGON AVENUE		
CBB-1 TO MHB-1	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	9
CBB-2 TO MHB-1	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	28
CBB-3 TO MHB-2	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	10
CBB-4 TO MHB-4	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	10
CBB-5 TO MHB-4	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	9
CBB-6 TO MHB-5	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	9
CBB-7 TO MHB-5	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	9
NEBRASKA AVENUE		
CBB-8 TO MHB-3	CLEAN STORM SEWER CONNECTING PIPE	50

SEWER STRUCTURE SCHEDULE					
STATION	OFFSET	STR. NO.	ITEM	UNIT	QUANTITY
OREGON AVENUE					
133+55.00	11.00 RT	CBB-1	FURNISH AND INSTALL STANDARD TRIPLE BASIN	EACH	1
133+71.00	11.00 LT	CBB-2	FURNISH AND INSTALL STANDARD TRIPLE BASIN	EACH	1
134+55.00	11.00 RT	CBB-3	FURNISH AND INSTALL DUAL THROAT WATER QUALITY BASIN	EACH	1
136+30.00	11.00 LT	CBB-4	FURNISH AND INSTALL STANDARD TRIPLE BASIN	EACH	1
136+30.00	11.00 RT	CBB-5	FURNISH AND INSTALL DUAL THROAT WATER QUALITY BASIN	EACH	1
137+98.50	11.00 LT	CBB-6	FURNISH AND INSTALL STANDARD TRIPLE BASIN	EACH	1
137+98.50	11.00 RT	CBB-7	FURNISH AND INSTALL DUAL THROAT WATER QUALITY BASIN	EACH	1
133+63.76	17.65 RT	MHB-1	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	VLF	8
134+57.50	0.31 LT	MHB-2	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	VLF	5
135+36.52	0.52 RT	MHB-3	RESET SEWER MANHOLE FRAME	EACH	1
136+32.50	0.34 RT	MHB-4	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	VLF	6
138+01.04	0.12 LT	MHB-5	RESET SEWER MANHOLE FRAME	EACH	1
BINGHAM DRIVE					
40+49.94	5.97 LT	MHB-6	RESET SEWER MANHOLE FRAME	EACH	1
NEBRASKA AVENUE					
50+41.24	19.30 RT	CBB-8	CLEAN STORM SEWER STRUCTURE	EACH	1

LID FACILITY DESCRIPTION			
LID NO.	ITEM	STA. TO STA.	DEPTH OF SUMP
LID B-1	BIORETENTION PLANTER ADJACENT TO ROADWAY	136+52.74 TO 137+28.78	0 IN.
LID B-2	POROUS RUBBER SIDEWALK	137+28.78 TO 137+90.60	0 IN.
LID B-3	BIORETENTION PLANTER ADJACENT TO ROADWAY	138+18.87 TO 138+68.16	60 IN.

NO.	REVISION	NAME	DATE

REVISIONS

VOLKERT ENGINEERING, P.C.
80 M ST.,SE, Suite 700, Washington, DC 20003

NO.	SHEET	TITLE	SHEET NO.	TOTAL SHEETS
3	DWG	STP — 4174 (201)	208	300

7/19/2017

WS - 8

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

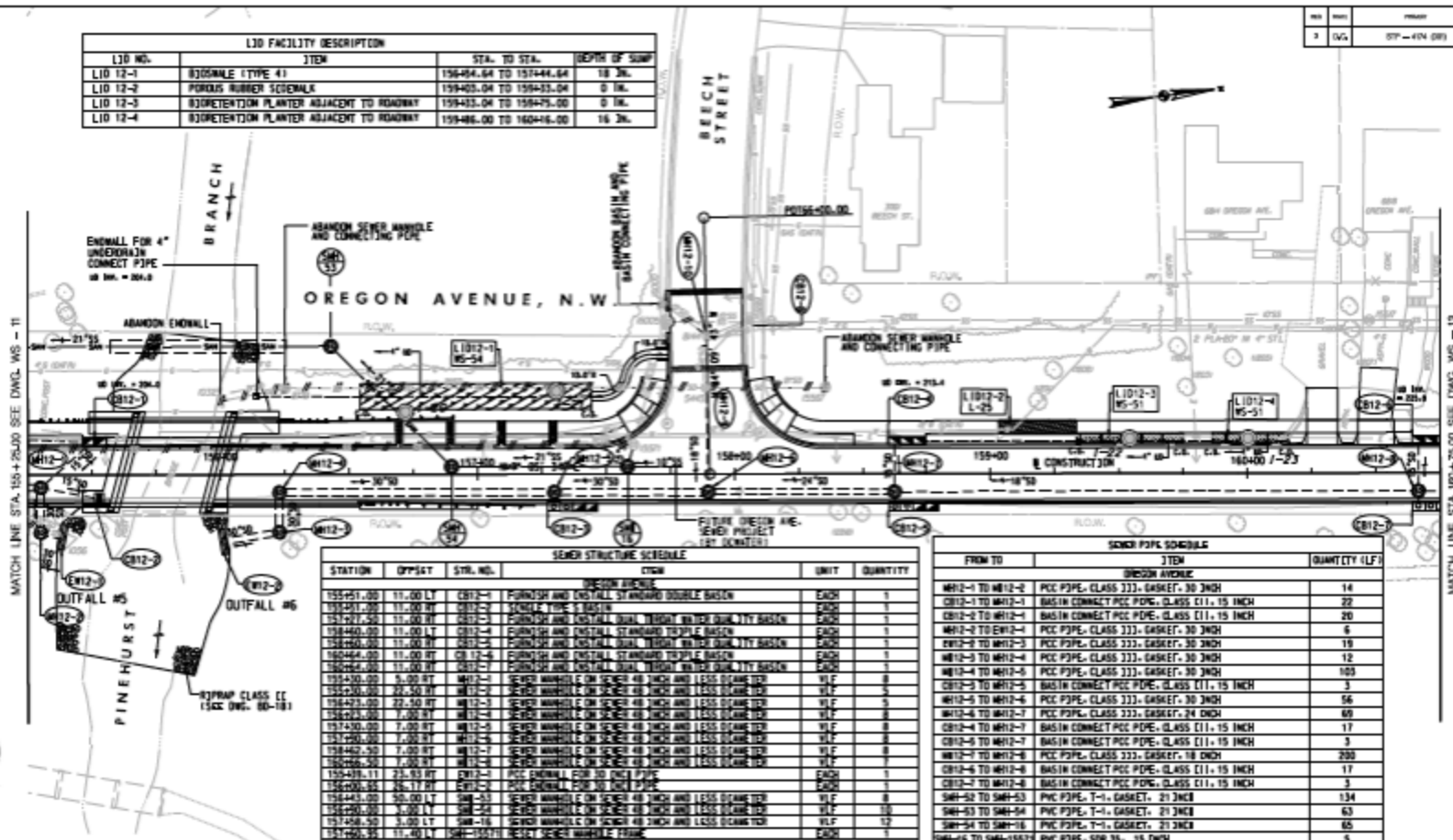
RECONSTRUCTION OF OREGON AVE.,NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE.,NW. FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON, D.C.

PROJECT MGR.
DESIGNED BY
DRAWN BY
PROJECT NO.

WATER AND SEWER PLAN
STA. 133+25.00 TO STA. 138+50.00

DIVISION CHIEF
DATE
APP.
DWG. NO. 3 OF 300 - 08

LID FACILITY DESCRIPTION			
LID NO.	ITEM	STA. TO STA.	DEPTH OF SUMP
LID 12-1	B)OSMALE (TYPE 4)	156+64.64 TO 157+44.64	18 IN.
LID 12-2	POROUS RUBBER SIDEWALK	159+03.04 TO 159+53.04	0 IN.
LID 12-3	B)ORETENTION PLANTER ADJACENT TO ROADWAY	159+33.04 TO 159+75.00	0 IN.
LID 12-4	B)ORETENTION PLANTER ADJACENT TO ROADWAY	159+86.00 TO 160+16.00	16 IN.



SEWER STRUCTURE SCHEDULE					
STATION	OFFSET	STR. NO.	ITEM	UNIT	QUANTITY
OREGON AVENUE					
155+51.00	11.00 LT	CB12-1	FURNISH AND INSTALL STANDARD DOUBLE BASIN	EACH	1
155+51.00	11.00 RT	CB12-2	SCHOLZ TYPE S BASIN	EACH	1
157+97.50	11.00 RT	CB12-3	FURNISH AND INSTALL DUAL TRIGHT WATER QUALITY BASIN	EACH	1
158+460.00	11.00 LT	CB12-4	FURNISH AND INSTALL STANDARD TRIPLE BASIN	EACH	1
158+460.00	11.00 RT	CB12-5	FURNISH AND INSTALL DUAL TRIGHT WATER QUALITY BASIN	EACH	1
160+64.00	11.00 RT	CB 12-6	FURNISH AND INSTALL STANDARD TRIPLE BASIN	EACH	1
160+64.00	11.00 RT	CB12-7	FURNISH AND INSTALL DUAL TRIGHT WATER QUALITY BASIN	EACH	1
155+50.00	5.00 RT	MH12-1	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	8
156+00.00	22.50 RT	MH12-2	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	5
156+423.00	22.50 RT	MH12-3	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	5
156+93.75	7.00 RT	MH12-4	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	8
157+30.00	7.00 RT	MH12-5	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	8
157+90.00	7.00 RT	MH12-6	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	8
158+62.50	7.00 RT	MH12-7	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	8
159+26.50	7.00 RT	MH12-8	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	7
159+49.11	23.93 RT	EW12-1	PCC ENDWALL FOR 30 INCH PIPE	EACH	1
159+00.95	26.17 RT	EW12-2	PCC ENDWALL FOR 30 INCH PIPE	EACH	1
156+43.00	50.00 LT	SMH-53	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	8
156+00.00	3.00 LT	SMH-54	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	10
157+58.50	3.00 LT	SMH-16	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIAMETER	V.L.F.	12
157+60.95	11.40 LT	SMH-15571	RESET SEWER MANHOLE FRAME	EACH	1
BEECH STREET					
65+57.80	14.80 RT	CB12-8	CLEAN STORM SEWER STRUCTURE	EACH	1
65+33.75	0.55 LT	MH12-9	RESET SEWER MANHOLE FRAME	EACH	1
65+63.93	0.27 RT	MH12-10	RESET SEWER MANHOLE FRAME	EACH	1

SEWER PIPE SCHEDULE		
FROM TO	ITEM	QUANTITY (LF)
OREGON AVENUE		
MH12-1 TO MH12-2	PCC PIPE, CLASS III, GASKET, 30 INCH	14
CB12-1 TO MH12-1	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	22
CB12-2 TO MH12-1	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	20
MH12-2 TO EW12-1	PCC PIPE, CLASS III, GASKET, 30 INCH	6
EW12-2 TO MH12-3	PCC PIPE, CLASS III, GASKET, 30 INCH	19
MH12-3 TO MH12-4	PCC PIPE, CLASS III, GASKET, 30 INCH	12
MH12-4 TO MH12-5	PCC PIPE, CLASS III, GASKET, 30 INCH	103
CB12-3 TO MH12-5	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	3
MH12-5 TO MH12-6	PCC PIPE, CLASS III, GASKET, 30 INCH	56
MH12-6 TO MH12-7	PCC PIPE, CLASS III, GASKET, 24 INCH	69
CB12-4 TO MH12-7	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	17
CB12-5 TO MH12-7	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	3
MH12-7 TO MH12-8	PCC PIPE, CLASS III, GASKET, 18 INCH	200
CB12-6 TO MH12-8	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	17
CB12-7 TO MH12-8	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	3
SMH-52 TO SMH-53	PVC PIPE, T-1, GASKET, 21 INCH	134
SMH-53 TO SMH-54	PVC PIPE, T-1, GASKET, 21 INCH	63
SMH-54 TO SMH-16	PVC PIPE, T-1, GASKET, 21 INCH	65
SMH-16 TO SMH-15571	PVC PIPE, SDR 35, 15 INCH	5
BEECH STREET		
CB12-8 TO MH12-10	CLEAN STORM SEWER CONNECTING PIPE	12
MH12-9 TO MH12-6	PCC PIPE, CLASS III, GASKET, 18 INCH	37

7/19/2017

LID LEGEND

- ## LOCATION OF INFILTRATION WITH TEST NUMBER
- POROUS RUBBER SIDEWALK
- PERMEABLE CONC. UNIT PAVERS, TYPE 1
- PERMEABLE CONC. UNIT PAVERS, TYPE 2
- B)ORETENTION (ON GRADE 0-5%)
- B)ORETENTION (ON GRADE 5%-10%)
- INFILTRATION UNDER SIDEWALK

LID FACILITY CALL-OUT — LID12-1 (LID FACILITY) / WS-51 (DETAIL DRAWING)

U.S. ROCK CREEK PARK RESERVATION 339

SCALE: 1" = 20' (10' 0 10' 20')

VOLKERT ENGINEERING, P.C.

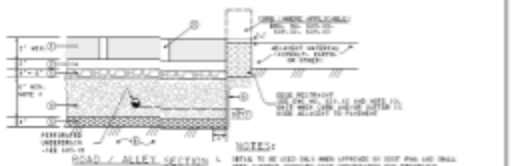
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE. NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE. NW, FROM OREGON AVE. TO 31ST. STREET & WASHINGTON, D.C.

WATER AND SEWER PLAN
STA. 155+25.00 TO STA. 160+75.00

WS - 12



ROAD / ALLEY SECTION

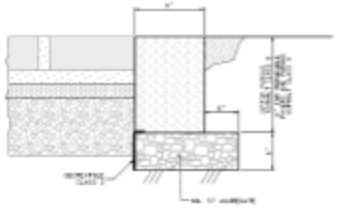
LEGEND

NOTES:

PERMEABLE INTERLOCKING UNIT PAVER PAVEMENT
(ROADWAY AND ALLEY)

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG NO. 609.05

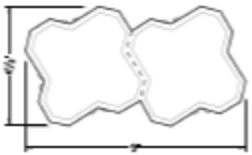


NOTES:

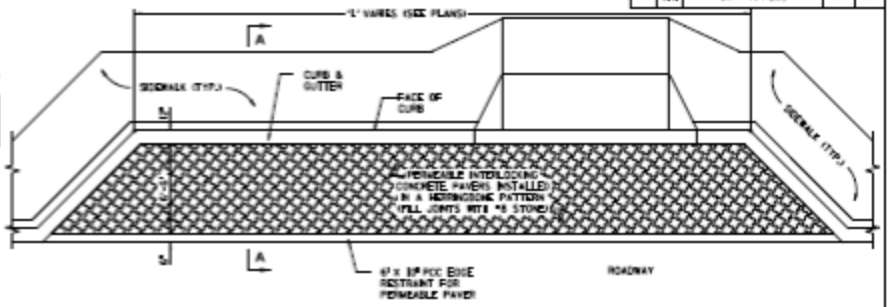
PERMEABLE PAVEMENT EDGE RESTRAINT

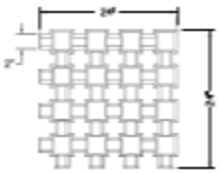
DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG NO. 609.10

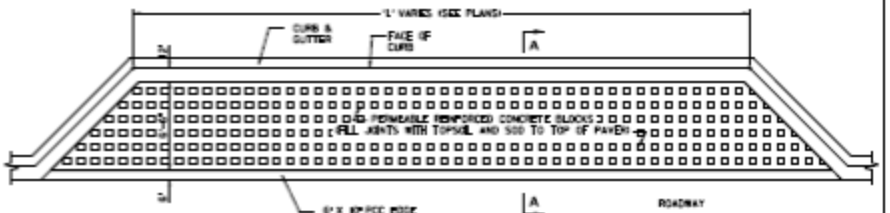


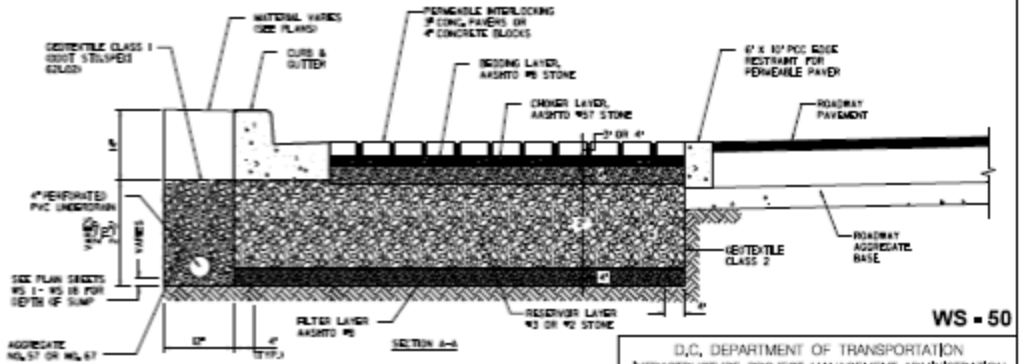
PERMEABLE UNIT PAVER TYPE 1
(3" THICK)





PERMEABLE UNIT PAVER TYPE 2
(4" THICK)





PERMEABLE UNIT PAVERS
NOT TO SCALE

WS - 50

REV	BY	PROJECT	SHEET NO.	TOTAL SHEETS
3	WA	STP — 474 (28)	300	600

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE. NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE. NW, FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON, D.C.

PROJECT ENG. _____
DESIGNED BY _____
DRAWN BY _____
PROJECT MGR. _____

DIVISION CHIEF

DATE _____
BY _____

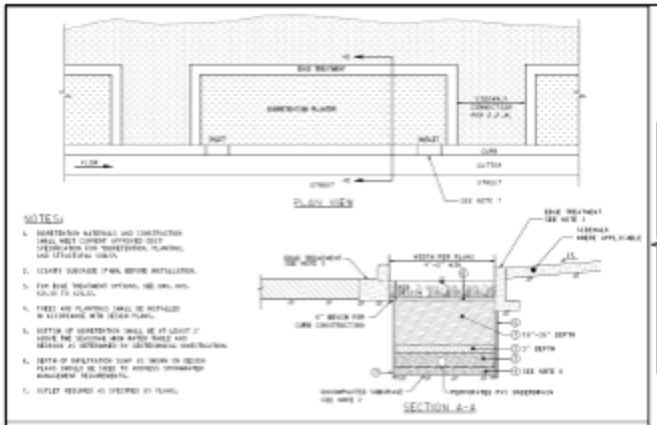
DWG. NO. 4 OF 700 - 0

WATER AND SEWER DETAILS — 6

VOLKERT ENGINEERING, P.C.
20 M ST., SE, SUITE 700, WASHINGTON, DC 20003

NO.	DESCRIPTION	NAME	DATE
	ROUSING		

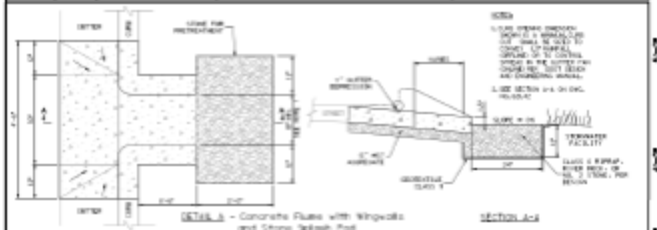
7/19/2017

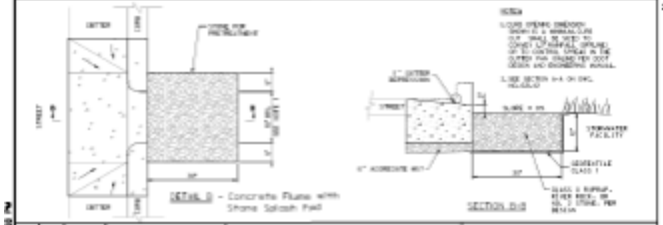


BIORETENTION PLANTER ADJACENT TO ROADWAY-1
(NO STEP OUT ZONE)

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG NO. 621.02

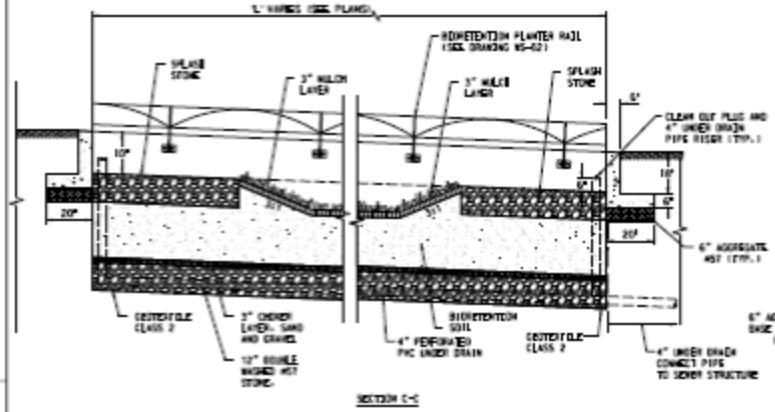


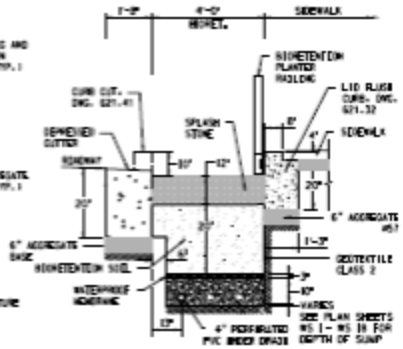


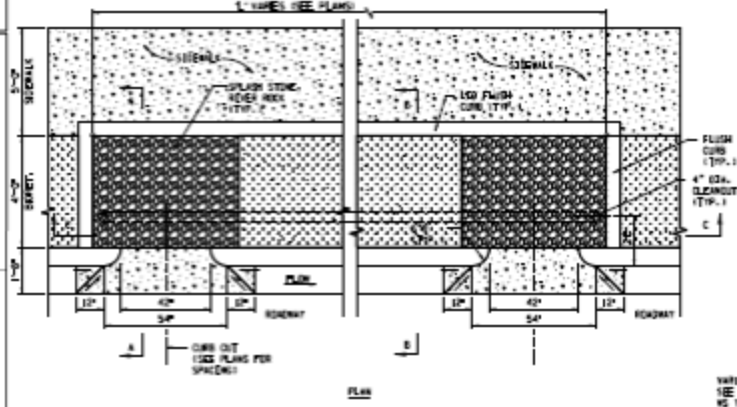
CURB CUT WITH SPLASH PAD - 1

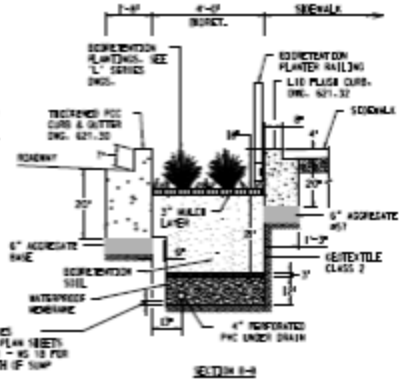
DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG NO. 621.41









NOTE:
1. SEE LANDSCAPE 'L' DRAWINGS FOR PLANT MATERIALS IN BIORETENTION PLANTERS.
2. CLEANOUTS SHALL BE INSTALLED AT BOTH ENDS OF THE LID STRUCTURE. INSTALL INTERMEDIATE CLEANOUTS AT 200' MAX. SPACING.
3. CONCRETE CHECK DAMS (DWG. 621.60) SHALL BE USED IN BIORETENTION PLANTERS WHERE SHOWN ON PLANS.

BIORETENTION PLANTER ADJACENT TO ROADWAY
NOT TO SCALE

WS - 51

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MISSOURI AVE. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 31ST. STREET, NW - WASHINGTON, D.C.

WATER AND SEWER DETAILS - 9

VOLKERT ENGINEERING, P.C.

NO	DESCRIPTION	NAME	DATE

REVISIONS

7/19/2017

Thursday, August 03, 2017 AT 04:51 PM

LOW IMPACT DEVELOPMENT SUMMARY OF QUANTITIES

LOW IMPACT DEVELOPMENT	LID #	209004	209005	209010	209012	300003	300007	310022	310024	321012	527014	527016	600011	600011	600011	600017	600027	600027	601002
		ASSUMED DATA ENTRY FOR LID FACILITY	ASSUMED DATA ENTRY FOR LID FACILITY	ASSUMED DATA ENTRY FOR LID FACILITY	SAND/GRAVEL FILTER LAYER FOR LID	TRANSPLANTATION FOR LID FACILITIES	REMOVE AND REINSTALL EXISTING SIGN (TYPE A, TYPE B, TYPE C, OR SPECIAL) *	LID UNDERDRAIN CONNECTION TO EXISTING INLET	LID UNDERDRAIN CONNECTION TO MANHOLE	SOLID TIMBER GUARD RAIL	CONCRETE CURB AND GUTTER	PLANTING OF TREES AND SHRUBS	DECIDUOUS CONTAINER TREE - 15 GALLON - PROJECT SPECIFIC (SIZE)	DECIDUOUS CONTAINER TREE - 30 GALLON - PROJECT SPECIFIC (SIZE)	DECIDUOUS CONTAINER TREE - 45 GALLON - PROJECT SPECIFIC (SIZE)	REINFORCED FLUMES	DECIDUOUS CONTAINER TREE - 15 GALLON - PROJECT SPECIFIC (SIZE)	DECIDUOUS CONTAINER TREE - 30 GALLON - PROJECT SPECIFIC (SIZE)	UNDERDRAIN PIPE - 6 INCH
		CY	CY	CY	CY	CY	EACH	EACH	EACH	LF	CY	CY	EACH	EACH	EACH	LF	SY	SY	LF
PERMEABLE PAVEMENT (TYPE 2)	LID 1-1	16	11	43				1				2						50	93
BIORETENTION (PLANTER)	LID 2-1	6			2	16			1		2		13	1	12	58			48
BIORETENTION (PLANTER)	LID 2-2	10			3	58			1		4		26	1	12	74			64
INFILTRATION UNDER SIDEWALK	LID 3-3	35				43			1										49
INFILTRATION UNDER SIDEWALK	LID 3-1	35				42			1										97
INFILTRATION UNDER SIDEWALK	LID 3-2	39				47			1										91
INFILTRATION UNDER SIDEWALK	LID 4-1	28				47			1										96
INFILTRATION UNDER SIDEWALK	LID 5-1	50				57		1											128
INFILTRATION UNDER SIDEWALK	LID 5-2	32				34			1										76
INFILTRATION UNDER SIDEWALK	LID 5-3	29				36		1											82
INFILTRATION UNDER SIDEWALK	LID 6-1	75				92		1											217
PERMEABLE PAVEMENT (TYPE 1)	LID 6-2	104	29	242				2				9					387		560
INFILTRATION UNDER SIDEWALK	LID 7-1	47				58		1											71
INFILTRATION UNDER SIDEWALK	LID 7-2	34				42		1											130
BIORETENTION (REDSEWALE)	LID 7-3	7			2	65		1											79
BIORETENTION (PLANTER)	LID 8-1	13			3	57		1			5		4	3	36	62			84
POROUS RUBBER SIDEWALK	LID 8-2	4																	
BIORETENTION (PLANTER)	LID 8-3	8			2	39					4		3	3	24	58			
BIORETENTION (PLANTER)	LID 9-1	11			3	52					5		28	2		78			
BIORETENTION (PLANTER)	LID 9-2	7			2	32							1		12	38			
POROUS RUBBER SIDEWALK	LID 9-3	4																	
POROUS RUBBER SIDEWALK	LID 10-1	16																	
POROUS RUBBER SIDEWALK	LID 10-2	3																	
BIORETENTION (PLANTER)	LID 10-3	7			2	26		1			2			2	24	58			29
BIORETENTION (PLANTER)	LID 11-1	14			4	87					2		43	3		98			86
INFILTRATION UNDER SIDEWALK	LID 11-2	20				23		1											25
BIORETENTION (PLANTER)	LID 11-3	2			2	31		1			1			2	24	38			28
BIORETENTION (REDSEWALE)	LID 12-1	53				225	1			36					24				88
POROUS RUBBER SIDEWALK	LID 12-2	2																	
BIORETENTION (PLANTER)	LID 12-3	6			2	41		1			2		6	2		50			40
BIORETENTION (PLANTER)	LID 12-4	5			2	29					2		1		12	38			28
BIORETENTION (PLANTER)	LID 13-1	9			2	48					3		27	2		51			41
INFILTRATION UNDER SIDEWALK	LID 13-2	33				33		1											54
BIORETENTION (PLANTER)	LID 14-1	8			2	40					2		25	1		58			46
BIORETENTION (PLANTER)	LID 14-2	8			2	40		1			2		12	3	24	58			46
BIORETENTION (REDSEWALE)	LID 14-3	8			2	32		1											93
BIORETENTION (PLANTER)	LID 14-4	27			7	156		1			6		86	6		170			168
BIORETENTION (REDSEWALE)	LID 15-1	23			4	94		1											110
BIORETENTION (PLANTER)	LID 15-2	8			2	47		1			4		15	2		55			50
BIORETENTION (REDSEWALE)	LID 15-3	10			2	27		1											50
BIORETENTION (PLANTER)	LID 15-4	13			4	85					7		43	3		98			86
BIORETENTION (PLANTER)	LID 16-1	7			2	50		1			4		18	2		58			49
BIORETENTION (PLANTER)	LID 16-2	13			3	68					5		26	1	12	78			69
BIORETENTION (PLANTER)	LID 16-3	16			4	85					7		40	3		98			88
BIORETENTION (REDSEWALE)	LID 16-4	14			3	73													93
BIORETENTION (REDSEWALE)	LID 16-5	18			4	43		1											68
POROUS RUBBER SIDEWALK	LID 17-1	5																	
BIORETENTION (PLANTER)	LID 17-2	8			3	43					4		27	2		66			53
BIORETENTION (PLANTER)	LID 17-3	6			2	41					4		18	2		63			50
BIORETENTION (PLANTER)	LID 17-4	9			3	50							16	1		73			60
POROUS RUBBER SIDEWALK	LID 17-5	3																	
BIORETENTION (PLANTER)	LID 17-6	8			2	42							3	3		61			47
POROUS RUBBER SIDEWALK	LID 17-7	4																	
BIORETENTION (REDSEWALE)	LID 17-8	49			9	94													167
BIORETENTION (REDSEWALE)	LID 17-9	32			6	61	1									1			108
BIORETENTION (PLANTER)	LID 18-1	14			4	88							4	5		90			88
BIORETENTION (REDSEWALE)	LID 19-1	17			3	46													45
PERMEABLE PAVEMENT (TYPE 1)	LID 19-2	12	6	70								2					104		
PERMEABLE PAVEMENT (TYPE 2)	LID 19-4	6	3	35								3					53		
SUB TOTAL		1118	99	495	164	2442	2	23	7	36	77	16	485	55	216	1750	544	50	3890
CONTINGENCY		57	6	25	6	138				4	8	3	15	5	14	90	26	5	195
TOTAL		1175	105	520	170	2700	2	23	7	40	85	19	500	60	230	1840	570	55	4085

REV	DATE	DESCRIPTION	SHEET NO.	TOTAL SHEETS
3	04/14	DDOT — 60% (SW)	358	600

WS - 58

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE., NW, FROM OREGON AVE. TO 31ST ST. WARD 4 — WASHINGTON, D.C.

PROJECT MGR. _____
DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
PROJECT MGR. _____

LOW IMPACT DEVELOPMENT SUMMARY OF QUANTITIES – 1

DIVISION CHIEF

P.E. _____

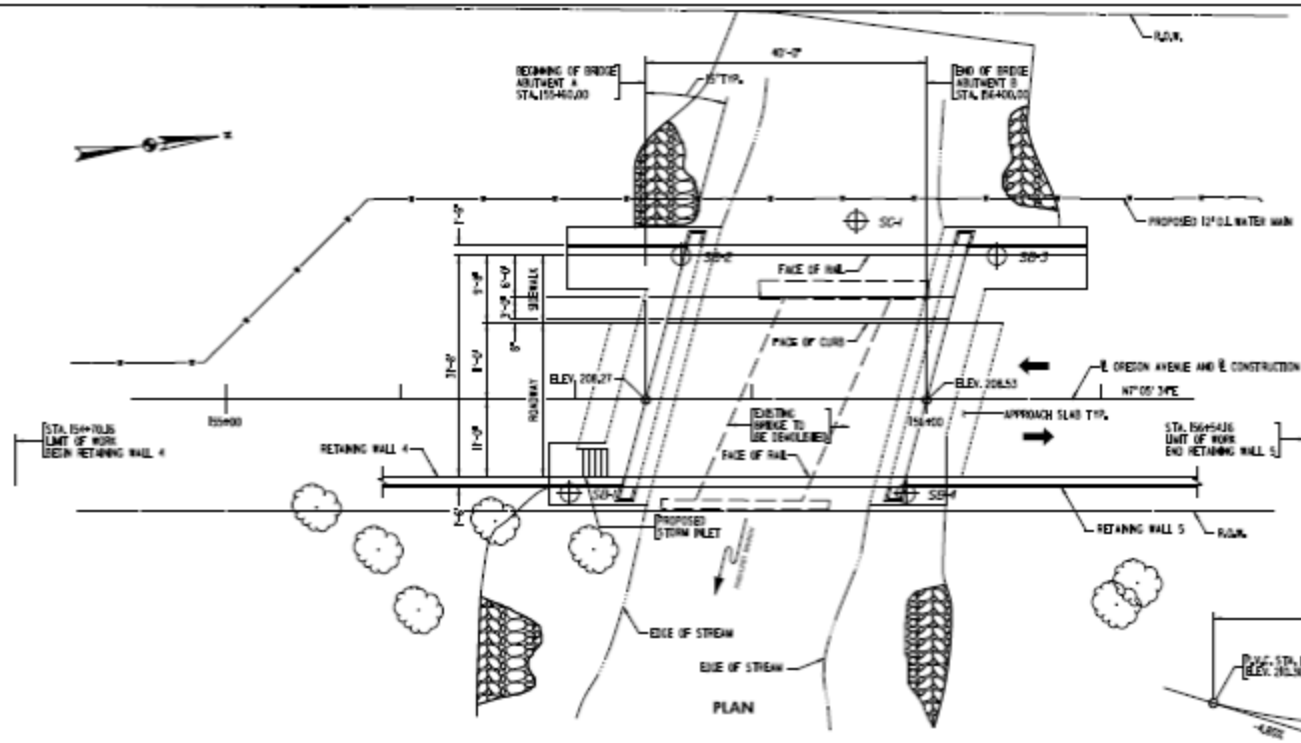
DATE _____

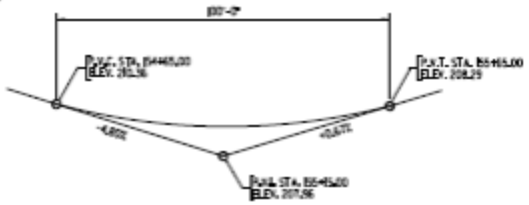
SHEET NO. 358 OF 600

VOLKERT ENGINEERING, P.C.
20 F ST., N.W., SUITE 500, WASHINGTON, DC 20001

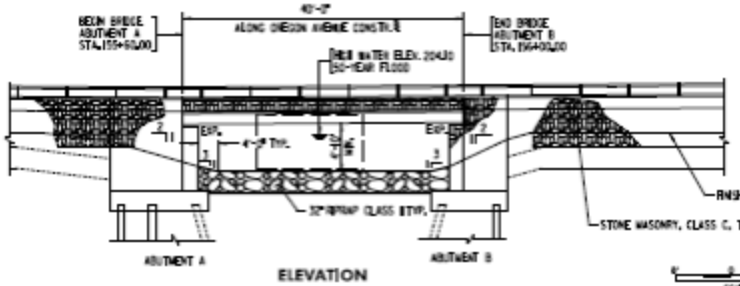
7/19/2017

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		





VERTICAL CURVE DATA



ELEVATION

SCALE: 1/4"=1'-0"

BRIDGE QUANTITIES			
ITEM CODE	ITEM	UNIT	QUANTITY
205002	STRUCTURE EXCAVATION	CY	697
205006	COFFERDAMS	LS	1
205008	DEMOLITION	LS	1
206004	BORROW STRUCTURE BACKFILL	CY	354
208002	POROUS FILL	CY	43
605048	GRANITE COBBLE PAVERS	SY	14
701024	DYNAMIC PILE LOAD TEST (PDA)	EACH	2
701036	8 PILES - 14WF89	LF	924
703002	PCC FOOTING	CY	106
703006	PCC PIER-ABUTMENT-WALL	CY	82
703008	PCC SUPERSTRUCTURE	CY	23
703022	SIDEWALK, MEDIAN AND CURB FINISH	CY	13
704004	EPOXY COATED REINFORCEMENT BARS	LBS	28,870
705991	PRECAST PCC UNIT SPECIAL ITEM - EACH - 3'-0" X 18"	EACH	2
705991	PRECAST PCC UNIT SPECIAL ITEM - EACH - 4'-0" X 18"	EACH	7
708006	STONE MASONRY, CLASS C	CF	248
709991	RAILING SPECIAL ITEM - LF - 42" RAILING	LF	57
709991	RAILING SPECIAL ITEM - LF - 54" RAILING	LF	74

NOTES:

FOR GENERAL NOTES, SEE DRAWING G-4.

FOR TYPICAL SECTION, SEE DRAWING BD-4.

FOR SOIL BORING LOGS, SEE EXISTING CONDITIONS DRAWINGS.

THE PROPOSED SANITARY SEWER LINE AND THE PROPOSED WATERLINE SHALL BE INSTALLED PRIOR TO DEMOLITION OF EXISTING BRIDGE, SEE DRAWING BD-10.

STONE MASONRY, CLASS C SHALL BE IN ACCORDANCE WITH SECTION 708 OF THE DDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES.

FOR RETAINING WALL DETAILS, SEE STRUCTURAL RETAINING WALL DRAWINGS.

PROPOSED STORM DRAINS AND PIPES ARE NOT SHOWN FOR FOR CLARITY, SEE STORM DRAIN DRAWINGS.

SEE DRAWING ST-6 FOR STONE MASONRY FINISHES AND COLORS.

⊕ = LOCATION OF SOIL BORING

7/19/2017

BD - 2

VOLKERT ENGINEERING, P.C.

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

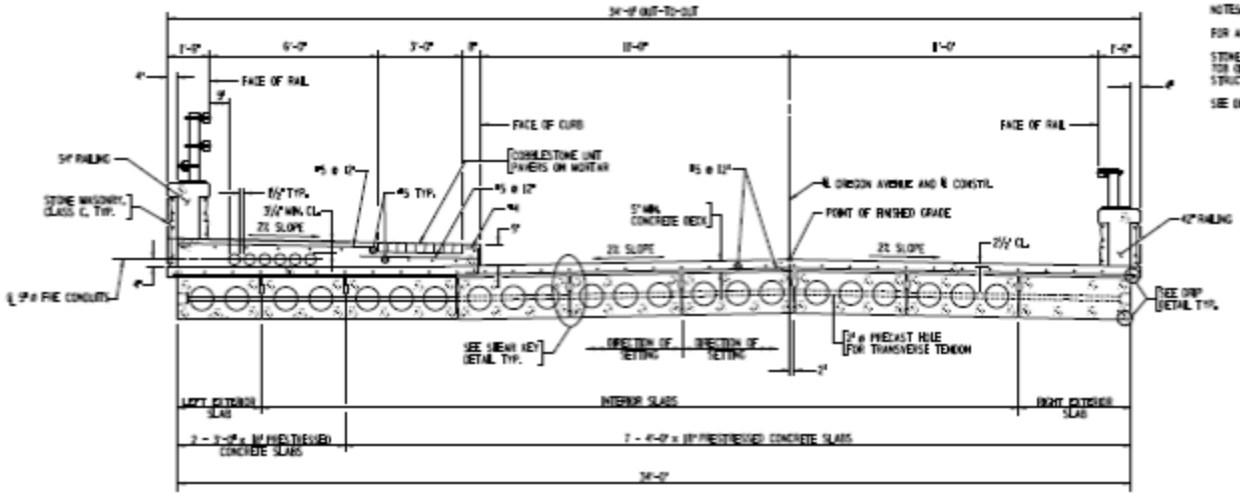
RECONSTRUCTION OF ORISON AVE, N.W. FROM HEIGHTS TER. TO WESTERN AVE. AND WESTERN AVE, N.W. FROM ORISON AVE. TO 37'ST. WARD 4 — WASHINGTON, D.C.

PROJECT MGR.
DESIGNED BY
DRAWN BY
PROJECT NO.

PROPOSED PLAN AND ELEVATION

DIVISION CHIEF

APP.



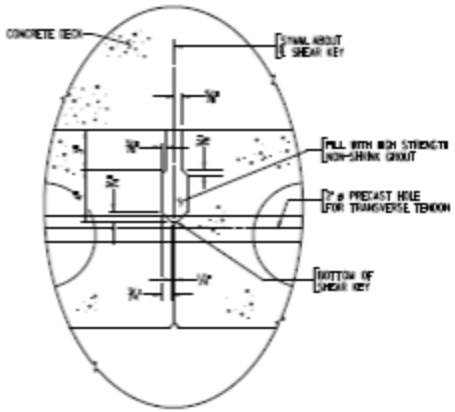
TRANSVERSE SECTION

NOTES:

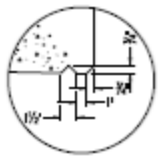
FOR ADDITIONAL NOTES AND DETAILS, SEE DRAWINGS BD-5 THRU BD-7.

STONE MASONRY, CLASS C SHALL BE IN ACCORDANCE WITH SECTION 908 OF THE DDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES.

SEE DRAWING ST-6 FOR STONE MASONRY FINISHES AND COLORS.



SHEAR KEY DETAIL
NOT TO SCALE



DRIP DETAIL

NOTE:

TERMINATE DRIP GROOVE 2'-0" FROM END OF PRESTRESSED SLAB.

SCALE 1"=1'-0"

BD - 4

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE. NW FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE. NW FROM OREGON AVE. TO 31ST. STREET N.W. WASHINGTON, D.C.

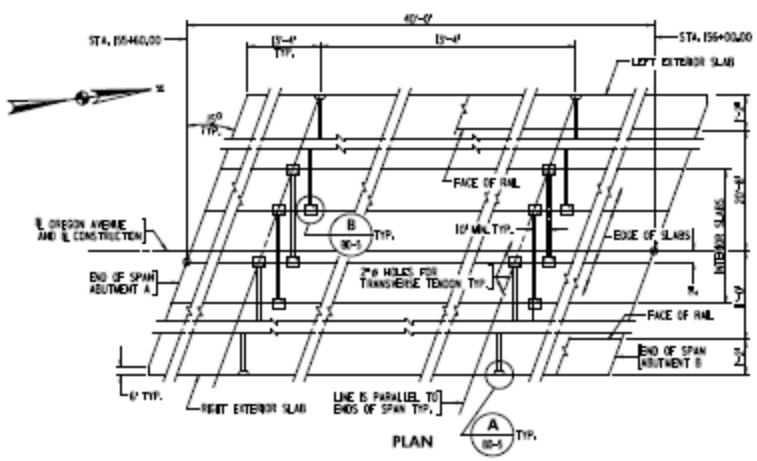
TRANSVERSE SECTION

VOLKERT ENGINEERING, P.C.
20 F STREET, N.W., SUITE 700, WASHINGTON, DC 20001

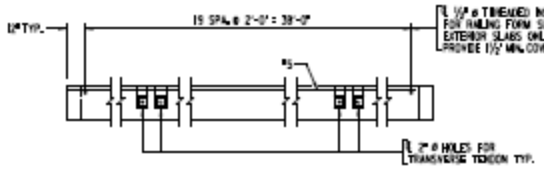
NO.	DESCRIPTION	NAME	DATE

REVISIONS

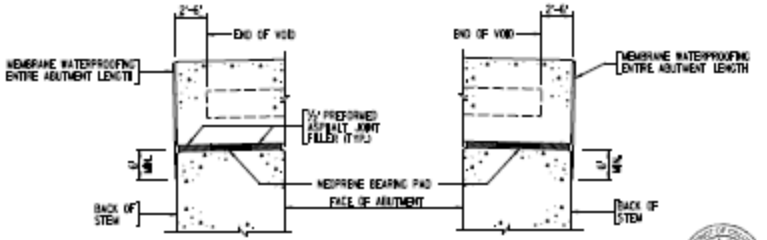
Thursday, August 25, 2016 AT 3:48:53 PM



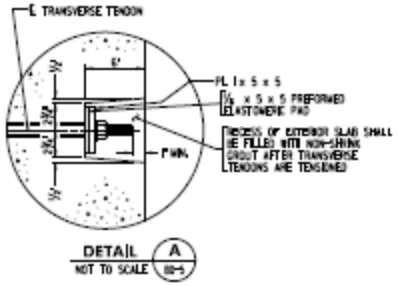
PLAN



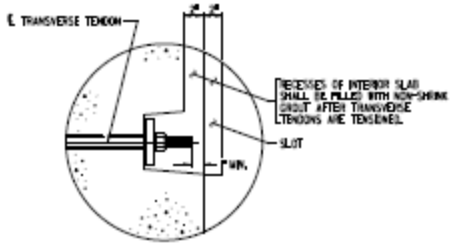
ELEVATION



WATERPROOFING MEMBRANE DETAIL

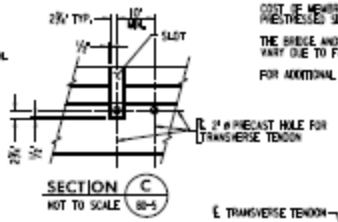


DETAIL A NOT TO SCALE BD-5

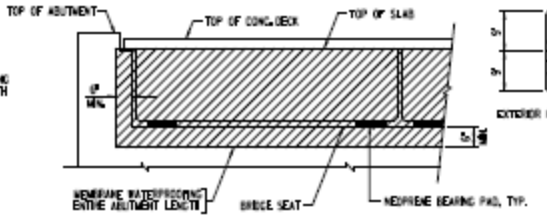


DETAIL B NOT TO SCALE BD-5

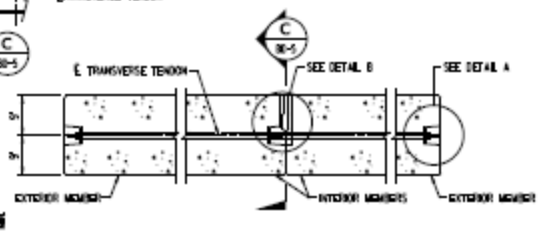
SEE DETAIL A FOR DETAILS NOT SHOWN.



SECTION C NOT TO SCALE BD-5



END OF BEAM VIEW AT ABUTMENTS



TRANSVERSE TENDON DETAIL

NOTES:

TOP SURFACES OF ALL SLABS SHALL BE A CLEAN CONCRETE SURFACE, FREE OF LAITANCE, WITH SURFACE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF ¼".

TRANSVERSE TENDONS SHALL BE 1" DIA. STEEL BARS CONFORMING TO ASTM A722 WITH 2½" LONG THREADED ENDS TENSIONED TO 30,000 LBS. THE BARS SHALL HAVE A WASHER AND NUT AT EACH END. BARS, NUTS, WASHERS AND 1" x 5" x 5" STEEL PLATES SHALL BE GALVANIZED.

THE MATERIAL USED TO FORM INTERNAL VOIDS FOR VOIDED SLAB SECTIONS SHALL BE EXPANDED POLYSTYRENE HAVING A MAXIMUM WATER ABSORPTION BY VOLUME RATE OF 10%.

THE USE OF WAXED-COATED CARDBOARD TUBES SHALL NOT BE PERMITTED.

FOR SHEAR KEY DETAIL, SEE DRAWING BD-4.

ALL KEYWAY SURFACES SHALL BE CLEANED OF ALL DIRT, LAITANCE AND LOOSE AGGREGATE BY MEANS OF SANDBLASTING AND PRE-WETTED PRIOR TO THE GROUTING OF SHEAR KEYS.

ALL GROUTING OF SHEAR KEYS SHALL BE DONE IN ONE CONTINUOUS OPERATION WITHOUT INTERRUPTION. CARE SHALL BE TAKEN TO PREVENT LEAKAGE OF GROUT INTO PRECAST HOLES FOR TRANSVERSE TENDONS OR FROM BOTTOMS OF SHEAR KEYS.

CONCRETE DECK SHALL NOT BE CAST UNTIL ALL GROUTING OF KEYS AND RECESSES ARE COMPLETED AND THE GROUT HAS REACHED A MINIMUM STRENGTH OF 4000 PSI.

THE GROUT IN THE SHEAR KEYS SHALL BE A NON-SHRINK GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI WITHIN 24 HOURS.

CONCRETE VOIDED SLABS SHALL HAVE ONE 2" ø DRAIN IN EACH END OF EACH VOID. THE MATERIAL USED TO FORM THE DRAIN SHALL NOT RUST OR STAIN THE CONCRETE.

VOIDS SHALL TERMINATE 2'-0" FROM END OF SPAN AND 5" ON EITHER SIDE OF TRANSVERSE TENDON CENTERLINES.

MEMBRANE WATERPROOFING SHALL BE IN ACCORDANCE WITH SECTION 02210 OF THE DDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES.

THE COST OF HIGH STRENGTH NON-SHRINK GROUT IN THE LONGITUDINAL SHEAR KEYS SHALL BE INCLUDED IN THE COST OF THE PRESTRESSED SLABS.

COST OF MEMBRANE WATERPROOFING SHALL BE INCLUDED IN THE PRICE OF PRESTRESSED SLABS.

THE BRIDGE AND ROADWAY WIDTHS SHOWN ARE NOMINAL. ACTUAL WIDTHS MAY VARY DUE TO FABRICATION AND CONSTRUCTION GAPS BETWEEN SLABS TOLERANCES.

FOR ADDITIONAL NOTES AND DETAILS, SEE DRAWINGS BD-6 AND BD-7.

NO.	DATE	REMARKS	PROJECT NO.	DRAWING NUMBER
3	7/19/17	STP — 1174 (201)	103	502

BD - 5

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE. N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE. N.W. FROM OREGON AVE. TO 31ST. AVE. & WASHINGTON DVD.

PROJECT MGR.
DESIGNED BY
DRAWN BY
PROJECT NO.

PRESTRESSED SLAB DETAILS

DIVISION CHIEF
DATE
APPROVED
DWG. BD-5 OF BD-7

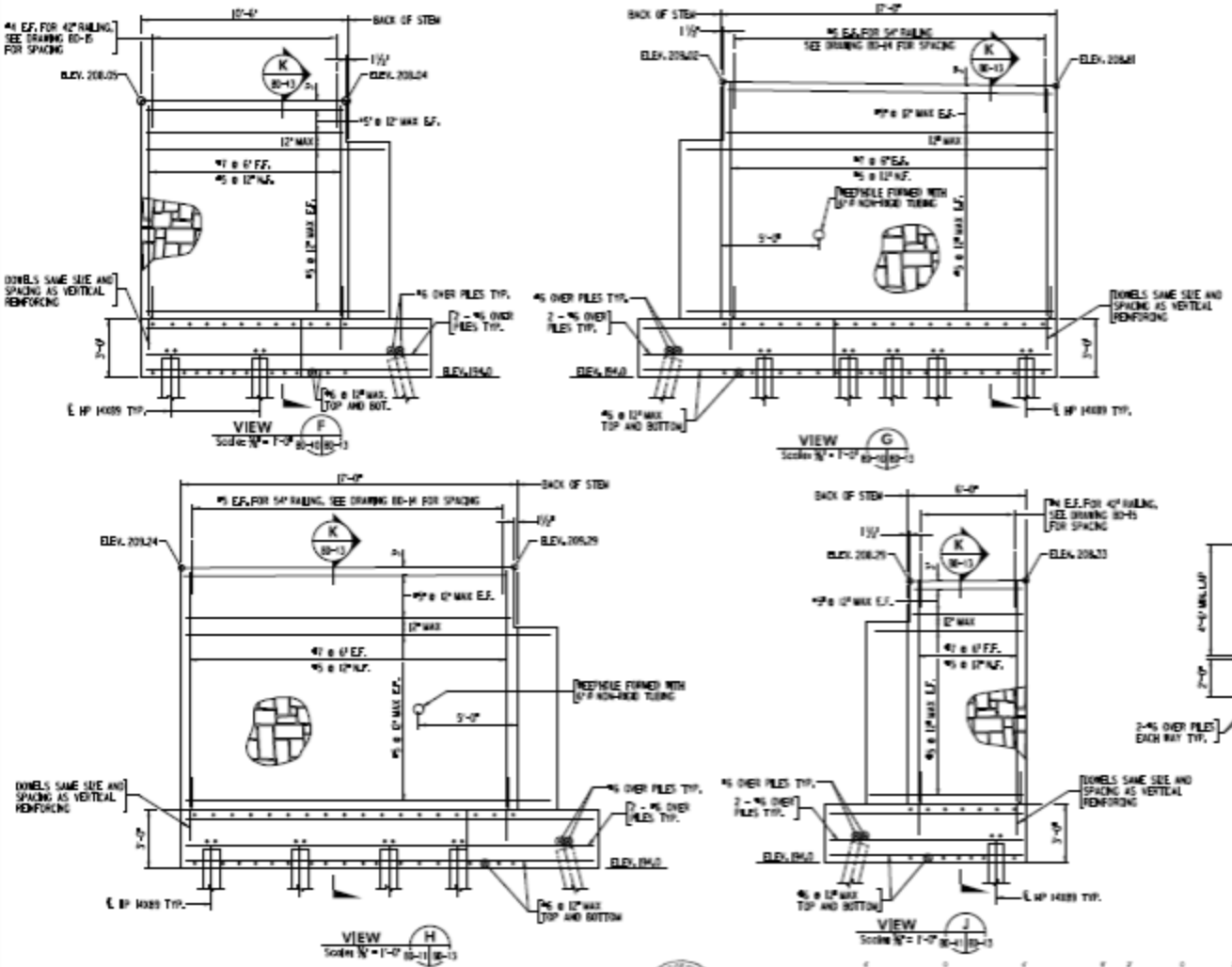
HOT TO SCALE

VOLKERT ENGINEERING, P.C.
801 W. ST., SE. SUITE 1100, WASHINGTON, DC 20007

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

7/19/2017

Thursday, August 03, 2017 AT 04:03 PM



NOTES:

REINFORCING SHOWN FOR WINGWALLS ONLY. FOR ADDITIONAL REINFORCING AND DETAILS SEE ABUTMENT DRAWINGS, DRAWINGS BD-9 THRU BD-12.

ALL REINFORCING STEEL SHALL BE EPOXY COATED.

WEEPHOLES SHALL BE IN ACCORDANCE WITH SECTION 701(8)(K) OF THE DDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES.

STONE MASONRY, CLASS C SHALL BE IN ACCORDANCE WITH SECTION 708 OF THE DDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES.

ADJUST SPACING OF BOTTOM BARS IN FOOTING AS NECESSARY TO CLEAR PILES, BAR SPACING SHALL NOT EXCEED 1'-0"

SEE DRAWING ST-6 FOR STONE MASONRY FINISHES AND COLORS.

NO.	DATE	REVISION	PROJECT NO.	TOTAL SHEETS
3	7/13/17	STP-474 (001)	330	600

BD-13

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE. N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE. N.W. FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON D.C.

PROJECT NO. 330
DESIGNED BY
DRAWN BY
CHECKED BY
PROJECT MGR.

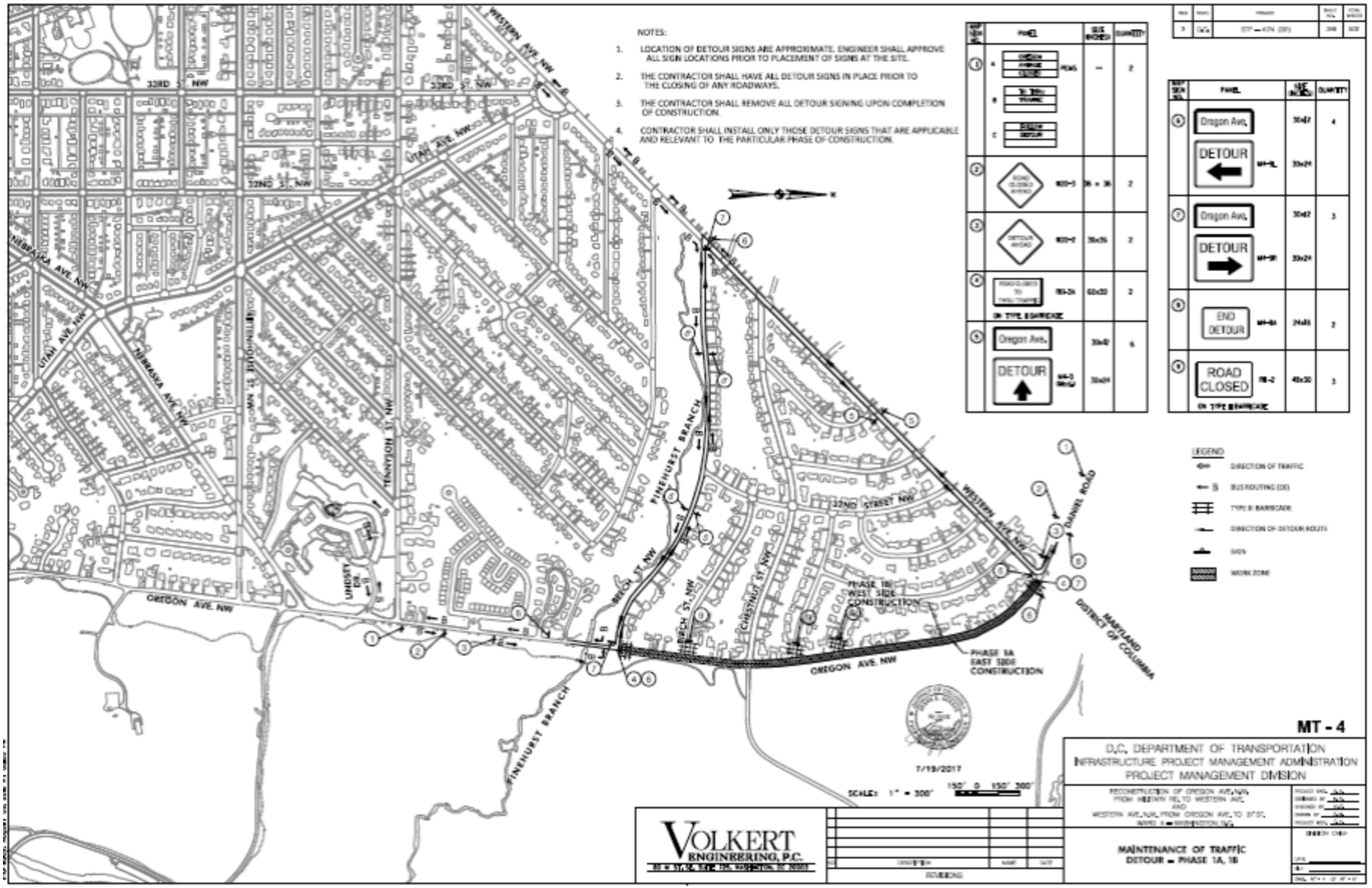
ABUTMENT A AND B WINGWALL DETAILS

DIVISION CHIEF

VOLKERT ENGINEERING, P.C.

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

7/13/2017



NOTES:

1. LOCATION OF DETOUR SIGNS ARE APPROXIMATE. ENGINEER SHALL APPROVE ALL SIGN LOCATIONS PRIOR TO PLACEMENT OF SIGNS AT THE SITE.
2. THE CONTRACTOR SHALL HAVE ALL DETOUR SIGNS IN PLACE PRIOR TO THE CLOSING OF ANY ROADWAYS.
3. THE CONTRACTOR SHALL REMOVE ALL DETOUR SIGNING UPON COMPLETION OF CONSTRUCTION.
4. CONTRACTOR SHALL INSTALL ONLY THOSE DETOUR SIGNS THAT ARE APPLICABLE AND RELEVANT TO THE PARTICULAR PHASE OF CONSTRUCTION.

SIGN DESIGN NO.	PANEL	SIZE (INCHES)	QUANTITY
1	A: OREGON AVENUE CLOSED; B: TO 33RD STREET; C: STATION DETOUR	R3-4	--	2
2	ROAD CLOSED AHEAD	W20-3	36 x 36	2
3	DETOUR AHEAD	W20-7	36x36	2
4	ROAD CLOSED TO THRU TRAFFIC	R11-2A	60x30	2
	3K TYPE BARRICADE			
5	Oregon Ave. DETOUR	M4-8 (R6-2)	30x48 30x24	6

SIGN DESIGN NO.	PANEL	SIZE (INCHES)	QUANTITY
6	Oregon Ave. DETOUR	M4-9L	30x42 30x24	4
7	Oregon Ave. DETOUR	M4-9R	30x42 30x24	3
8	END DETOUR	M4-8A	24x18	2
9	ROAD CLOSED	R9-2	48x30	3
	3K TYPE BARRICADE			

REV.	PHASE	PROJECT	SHEET NO.	TOTAL SHEETS
3	1A/1B	STP — 4174 (201)	348	500

MT - 4

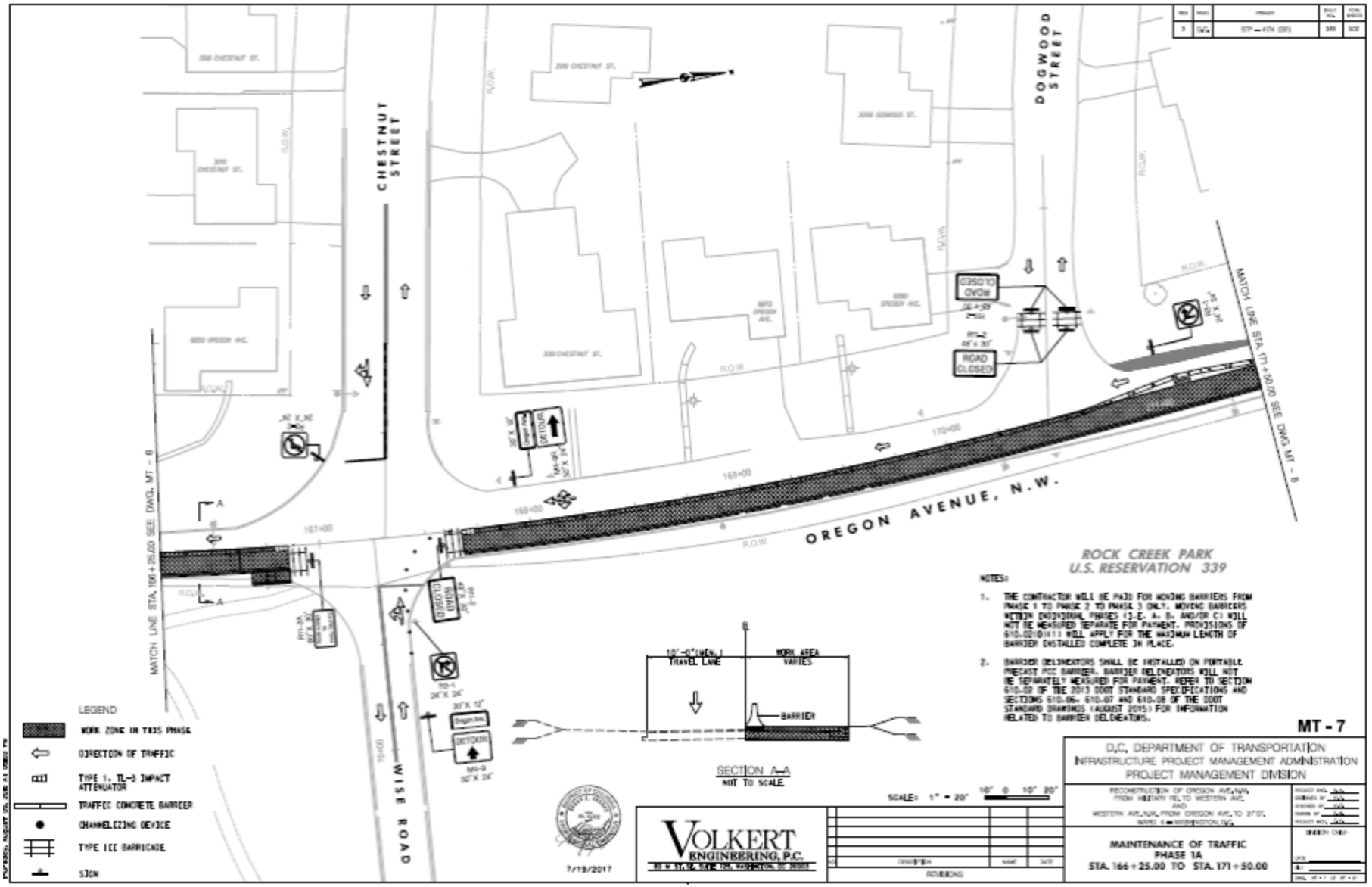
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 37'ST. WARD 4 — WASHINGTON, D.C.

MAINTENANCE OF TRAFFIC
DETOUR — PHASE 1A, 1B

VOLKERT ENGINEERING, P.C.
20 M ST. S.E., STE. 700, WASHINGTON, DC 20003

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		



NOTES:

1. THE CONTRACTOR WILL BE PAID FOR MOVING BARRIERS FROM PHASE 1 TO PHASE 2 TO PHASE 3 ONLY. MOVING BARRIERS WITHIN INDIVIDUAL PHASES (I.E. A, B, AND/OR C) WILL NOT BE MEASURED SEPARATE FOR PAYMENT. PROVISIONS OF 610.02(b)(1) WILL APPLY FOR THE MAXIMUM LENGTH OF BARRIER INSTALLED COMPLETE IN PLACE.
2. BARRIER DELINEATORS SHALL BE INSTALLED ON PORTABLE PRECAST PCC BARRIER. BARRIER DELINEATORS WILL NOT BE SEPARATELY MEASURED FOR PAYMENT. REFER TO SECTION 610.02 OF THE 2013 DDOT STANDARD SPECIFICATIONS AND SECTIONS 610.06, 610.07 AND 610.08 OF THE DDOT STANDARD DRAWINGS (AUGUST 2015) FOR INFORMATION RELATED TO BARRIER DELINEATORS.

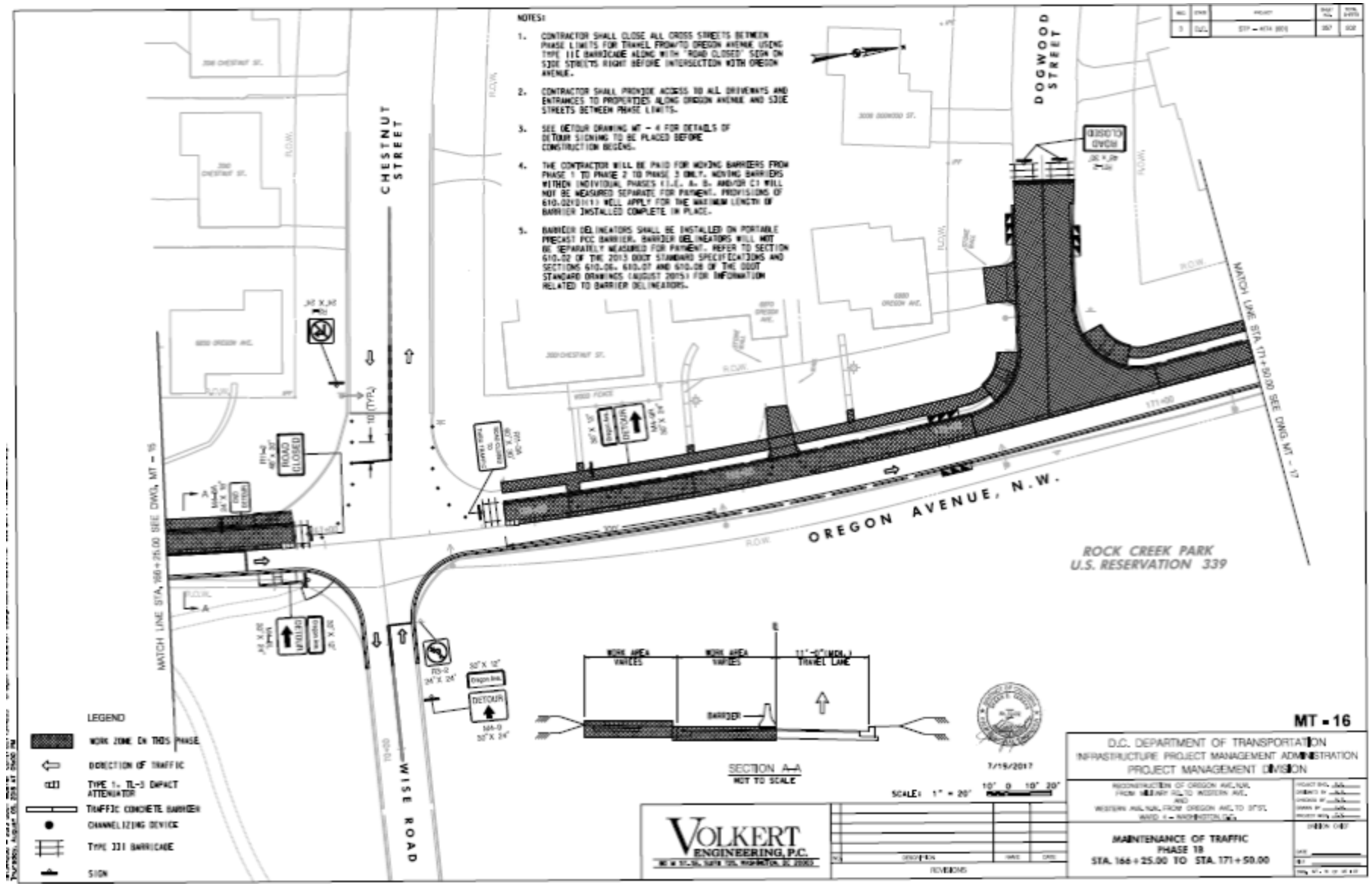
MT - 7

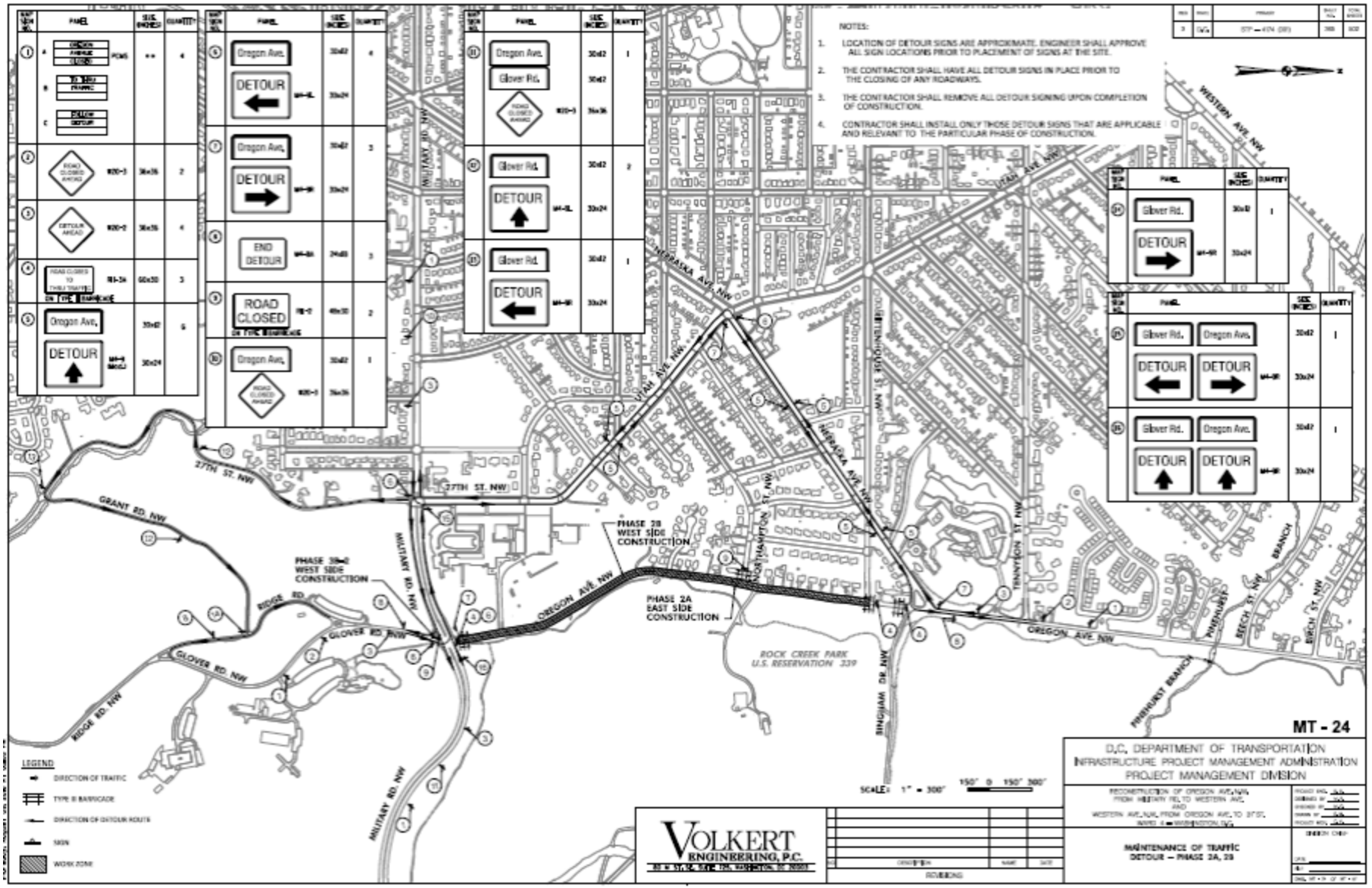
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

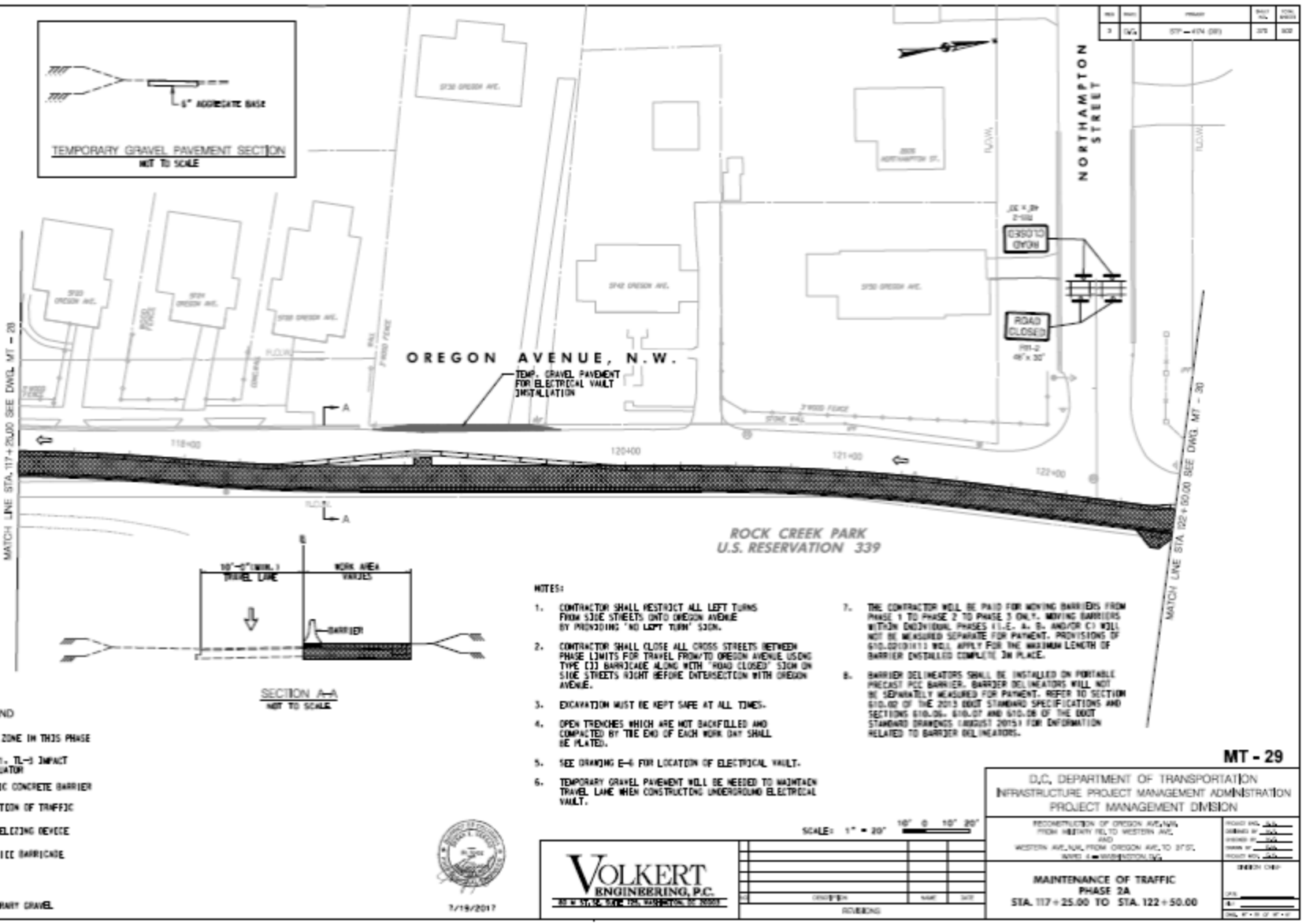
RECONSTRUCTION OF OREGON AVE, N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, N.W. FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON, D.C.

MAINTENANCE OF TRAFFIC PHASE 1A
STA. 166+25.00 TO STA. 171+50.00

VOLKERT ENGINEERING, P.C.


NOTES:
1. CONTRACTOR SHALL CLOSE ALL CROSS STREETS BETWEEN PHASE LIMITS FOR TRAVEL FROM/TO OREGON AVENUE USING TYPE III BARRICADE ALONG WITH "ROAD CLOSED" SIGN ON SIDE STREETS RIGHT BEFORE INTERSECTION WITH OREGON AVENUE.
2. CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND ENTRANCES TO PROPERTIES ALONG OREGON AVENUE AND SIDE STREETS BETWEEN PHASE LIMITS.
3. SEE DETOUR DRAWING MT - 4 FOR DETAILS OF DETOUR SIGNING TO BE PLACED BEFORE CONSTRUCTION BEGINS.
4. THE CONTRACTOR WILL BE PAID FOR MOVING BARRIERS FROM PHASE 1 TO PHASE 2 TO PHASE 3 ONLY. MOVING BARRIERS WITHIN INDIVIDUAL PHASES (I.E. A, B, AND/OR C) WILL NOT BE MEASURED SEPARATE FOR PAYMENT. PROVISIONS OF 610.02(b)(1) WILL APPLY FOR THE MAXIMUM LENGTH OF BARRIER INSTALLED COMPLETE IN PLACE.
5. BARRIER DELINEATORS SHALL BE INSTALLED ON PORTABLE PRECAST PCC BARRIER. BARRIER DELINEATORS WILL NOT BE SEPARATELY MEASURED FOR PAYMENT. REFER TO SECTION 610.02 OF THE 2013 DDOT STANDARD SPECIFICATIONS AND SECTIONS 610.06, 610.07 AND 610.08 OF THE DDOT STANDARD DRAWINGS (AUGUST 2015) FOR INFORMATION RELATED TO BARRIER DELINEATORS.
CHESTNUT STREET
DOGWOOD STREET
OREGON AVENUE, N.W.
WISE ROAD
ROCK CREEK PARK
U.S. RESERVATION 339
MATCH LINE STA. 166+25.00 SEE DWG. MT - 15
MATCH LINE STA. 171+50.00 SEE DWG. MT - 17
ROAD CLOSED
DETOUR
10' (TYP.)
WORK AREA VARIES
WORK AREA VARIES
11'-0" MIN. TRAVEL LANE
BARRIER
SECTION A-A
NOT TO SCALE
LEGEND
WORK ZONE ON THIS PHASE
DIRECTION OF TRAFFIC
TYPE 1- TL-3 IMPACT ATTENUATOR
TRAFFIC CONCRETE BARRIER
CHANNELIZING DEVICE
TYPE III BARRICADE
SIGN
SCALE: 1" = 20'
10' 0 10' 20'
7/15/2017
VOLKERT ENGINEERING, P.C.
REVISIONS
MT - 16
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION
RECONSTRUCTION OF OREGON AVE., N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE., N.W. FROM OREGON AVE. TO 37'ST. WARD 3 - WASHINGTON, D.C.
MAINTENANCE OF TRAFFIC
PHASE 1B
STA. 166+25.00 TO STA. 171+50.00


NOTES:
1. LOCATION OF DETOUR SIGNS ARE APPROXIMATE. ENGINEER SHALL APPROVE ALL SIGN LOCATIONS PRIOR TO PLACEMENT OF SIGNS AT THE SITE.
2. THE CONTRACTOR SHALL HAVE ALL DETOUR SIGNS IN PLACE PRIOR TO THE CLOSING OF ANY ROADWAYS.
3. THE CONTRACTOR SHALL REMOVE ALL DETOUR SIGNING UPON COMPLETION OF CONSTRUCTION.
4. CONTRACTOR SHALL INSTALL ONLY THOSE DETOUR SIGNS THAT ARE APPLICABLE AND RELEVANT TO THE PARTICULAR PHASE OF CONSTRUCTION.
PHASE 2B WEST SIDE CONSTRUCTION
PHASE 3B-2 WEST SIDE CONSTRUCTION
PHASE 2A EAST SIDE CONSTRUCTION
ROCK CREEK PARK U.S. RESERVATION 339
OREGON AVE. NW
MILITARY RD. NW
RIDGE RD. NW
GLOVER RD. NW
GRANT RD. NW
27TH ST. NW
NEBRASKA AVE. NW
UTAH AVE. NW
WESTERN AVE. NW
TUNLAW RD. NW
HAM. DE. MARSHALL
NORTHAMPTON ST. NW
TRINIDAD ST. NW
PINEHURST BRANCH
BIRCH ST. NW
LEGEND
DIRECTION OF TRAFFIC
TYPE III BARRICADE
DIRECTION OF DETOUR ROUTE
SIGN
WORK ZONE
SCALE: 1" = 300'
MT - 24
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION
RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 37'ST. WARD 4 — WASHINGTON, D.C.
MAINTENANCE OF TRAFFIC DETOUR — PHASE 2A, 2B
VOLKERT ENGINEERING, P.C.
REVISIONS



LEGEND

- WORK ZONE IN THIS PHASE
- TYPE 1, TL-3 IMPACT ATTENUATOR
- TRAFFIC CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- TYPE I CC BARRICADE
- SIGN
- TEMPORARY GRAVEL

NOTES:

1. CONTRACTOR SHALL RESTRICT ALL LEFT TURNS FROM SIDE STREETS ONTO OREGON AVENUE BY PROVIDING "NO LEFT TURN" SIGN.
2. CONTRACTOR SHALL CLOSE ALL CROSS STREETS BETWEEN PHASE LIMITS FOR TRAVEL FROM/TO OREGON AVENUE USING TYPE III BARRICADE ALONG WITH "ROAD CLOSED" SIGN ON SIDE STREETS RIGHT BEFORE INTERSECTION WITH OREGON AVENUE.
3. EXCAVATION MUST BE KEPT SAFE AT ALL TIMES.
4. OPEN TRENCHES WHICH ARE NOT BACKFILLED AND COMPACTED BY THE END OF EACH WORK DAY SHALL BE PLATED.
5. SEE DRAWING E-6 FOR LOCATION OF ELECTRICAL VAULT.
6. TEMPORARY GRAVEL PAVEMENT WILL BE NEEDED TO MAINTAIN TRAVEL LANE WHEN CONSTRUCTING UNDERGROUND ELECTRICAL VAULT.
7. THE CONTRACTOR WILL BE PAID FOR MOVING BARRIERS FROM PHASE 1 TO PHASE 2 TO PHASE 3 ONLY. MOVING BARRIERS WITHIN INDIVIDUAL PHASES (I.E. A, B, AND/OR C) WILL NOT BE MEASURED SEPARATE FOR PAYMENT. PROVISIONS OF 610.02(B)(1)(1) WILL APPLY FOR THE MAXIMUM LENGTH OF BARRIER INSTALLED COMPLETE IN PLACE.
8. BARRIER DELINEATORS SHALL BE INSTALLED ON PORTABLE PRECAST PCC BARRIER. BARRIER DELINEATORS WILL NOT BE SEPARATELY MEASURED FOR PAYMENT. REFER TO SECTION 610.02 OF THE 2013 DDOT STANDARD SPECIFICATIONS AND SECTIONS 610.06, 610.07 AND 610.08 OF THE DDOT STANDARD DRAWINGS (AUGUST 2015) FOR INFORMATION RELATED TO BARRIER DELINEATORS.

SCALE: 1" = 20' (10' 0 10' 20')

7/19/2017

VOLKERT ENGINEERING, P.C.
80 M ST., S.E., SUITE 700, WASHINGTON, DC 20003

NO.	DESCRIPTION	NAME	DATE
	ROUBDING		

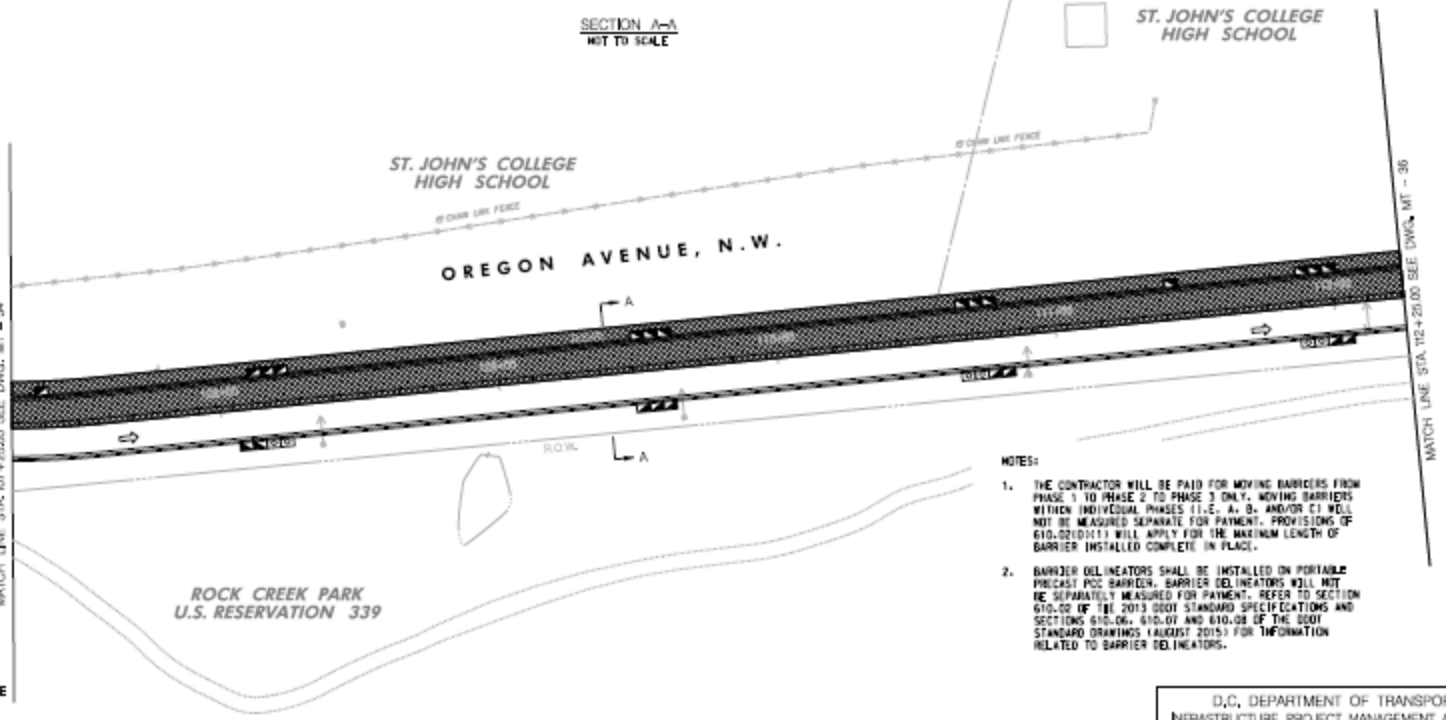
MT - 29

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 31ST. WARD 4 — WASHINGTON, D.C.

MAINTENANCE OF TRAFFIC
PHASE 2A
STA. 117+25.00 TO STA. 122+50.00

SECTION A–A
NOT TO SCALE



NOTES:

1. THE CONTRACTOR WILL BE PAID FOR MOVING BARRIERS FROM PHASE 1 TO PHASE 2 TO PHASE 3 ONLY. MOVING BARRIERS WITHIN INDIVIDUAL PHASES (I.E. A, B, AND/OR C) WILL NOT BE MEASURED SEPARATE FOR PAYMENT. PROVISIONS OF 610.02(D)(1) WILL APPLY FOR THE MAXIMUM LENGTH OF BARRIER INSTALLED COMPLETE IN PLACE.
2. BARRIER DELINEATORS SHALL BE INSTALLED ON PORTABLE PRECAST PCC BARRIER. BARRIER DELINEATORS WILL NOT BE SEPARATELY MEASURED FOR PAYMENT. REFER TO SECTION 610.02 OF THE 2013 DDOT STANDARD SPECIFICATIONS AND SECTIONS 610.06, 610.07 AND 610.08 OF THE DDOT STANDARD DRAWINGS (AUGUST 2015) FOR INFORMATION RELATED TO BARRIER DELINEATORS.

LEGEND

- WORK ZONE IN THIS PHASE
- TYPE 1, TL-3 IMPACT ATTENUATOR
- TRAFFIC CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- TYPE III BARRICADE
- SIGN

7/19/2017

SCALE: 1" = 20' (10' 0 10' 20')

VOLKERT ENGINEERING, P.C.
20 M St. SE, Suite 700, Washington, DC 20003

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

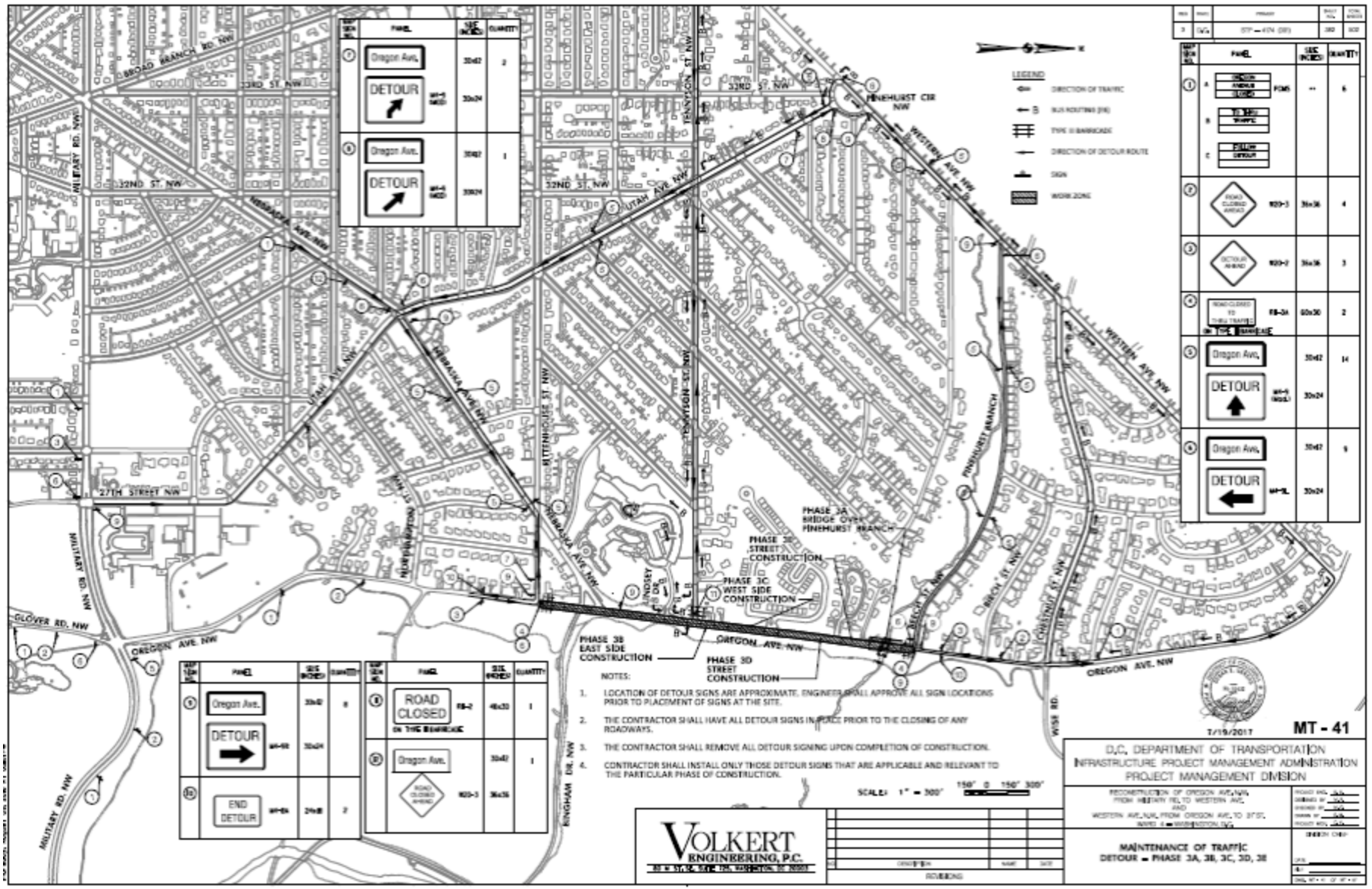
MT - 35

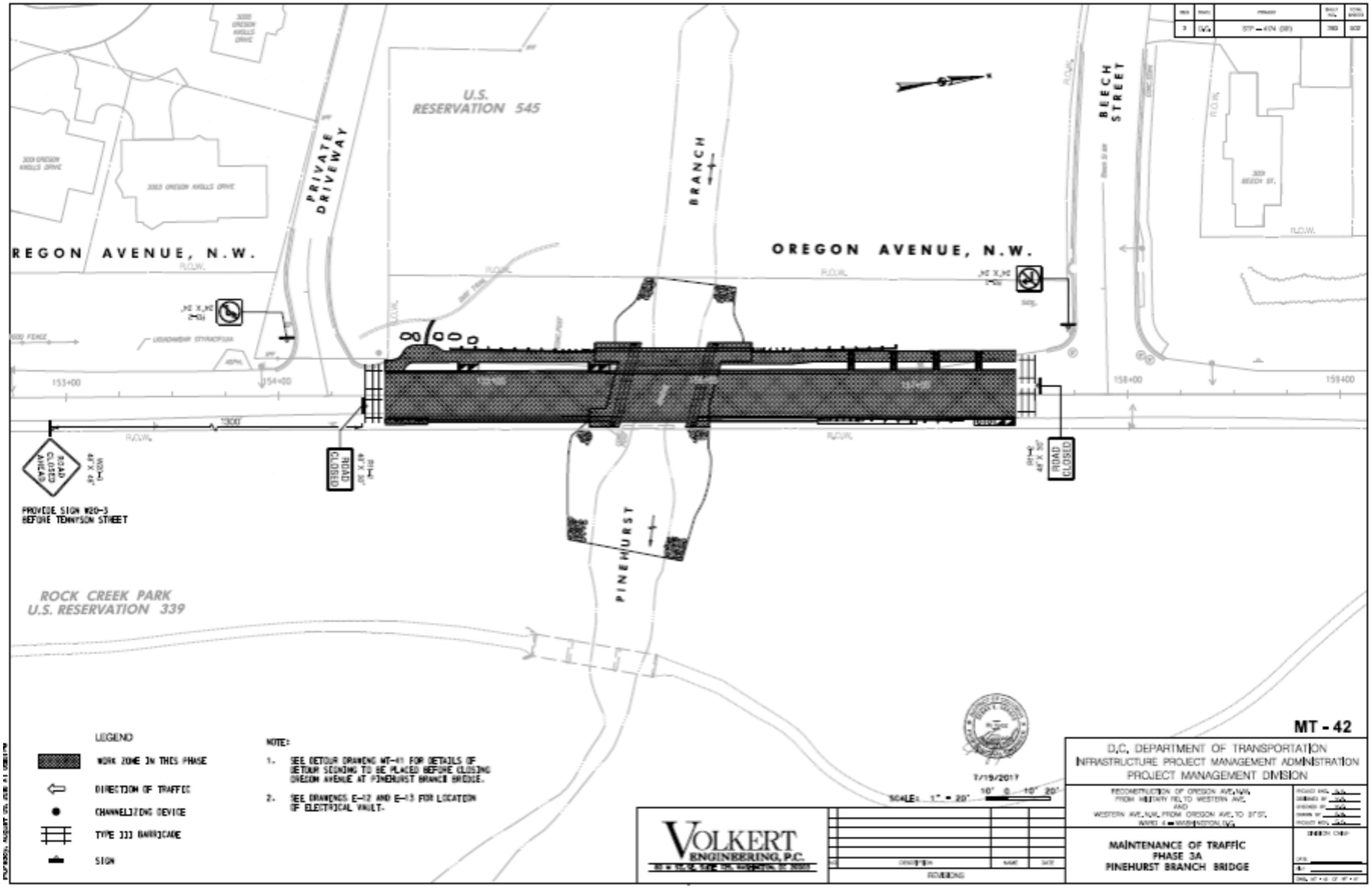
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, NW, FROM OREGON AVE. TO 31ST. AND V ST. NW, WASHINGTON, D.C.

MAINTENANCE OF TRAFFIC PHASE 2B
STA. 107+25.00 TO STA. 112+25.00

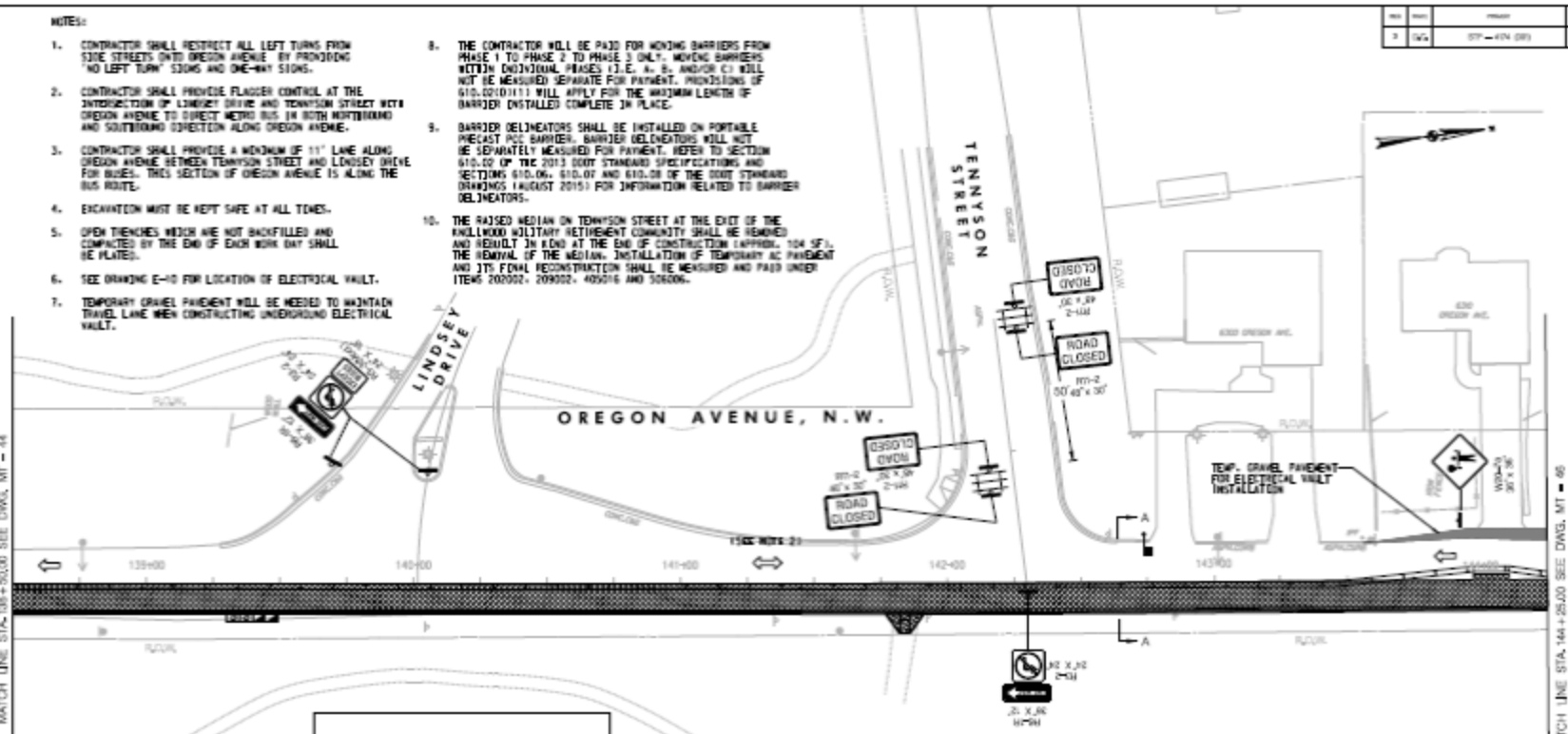
PROJECT MGR.
DESIGNED BY
DRAWN BY
CHECKED BY
PROJECT MGR.
DIVISION CHIEF
DATE
D.C.
DWG. MT - 35 OF MT - 47

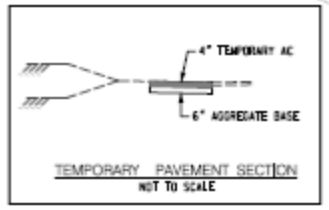

LEGEND
DIRECTION OF TRAFFIC
BUS ROUTING (TYP.)
TYPE III BARRICADE
DIRECTION OF DETOUR ROUTE
SIGN
WORK ZONE
PHASE 3A BRIDGE OVER PINEHURST BRANCH
PHASE 3B STREET CONSTRUCTION
PHASE 3C WEST SIDE CONSTRUCTION
PHASE 3B EAST SIDE CONSTRUCTION
PHASE 3D STREET CONSTRUCTION
NOTES:
1. LOCATION OF DETOUR SIGNS ARE APPROXIMATE. ENGINEER SHALL APPROVE ALL SIGN LOCATIONS PRIOR TO PLACEMENT OF SIGNS AT THE SITE.
2. THE CONTRACTOR SHALL HAVE ALL DETOUR SIGNS IN PLACE PRIOR TO THE CLOSING OF ANY ROADWAYS.
3. THE CONTRACTOR SHALL REMOVE ALL DETOUR SIGNING UPON COMPLETION OF CONSTRUCTION.
4. CONTRACTOR SHALL INSTALL ONLY THOSE DETOUR SIGNS THAT ARE APPLICABLE AND RELEVANT TO THE PARTICULAR PHASE OF CONSTRUCTION.
SCALE: 1" = 300'
7/19/2017
MT - 41
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION
RECONSTRUCTION OF OREGON AVE, NW, FROM MILITARY RD. TO WESTERN AVE, AND WESTERN AVE, NW, FROM OREGON AVE. TO 31ST. STREET, NW – WASHINGTON, D.C.
MAINTENANCE OF TRAFFIC
DETOUR – PHASE 3A, 3B, 3C, 3D, 3E
VOLKERT ENGINEERING, P.C.
REVISIONS


REGON AVENUE, N.W.
OREGON AVENUE, N.W.
U.S. RESERVATION 545
PRIVATE DRIVEWAY
BRANCH
BEECH STREET
PINEHURST
ROCK CREEK PARK
U.S. RESERVATION 339
153+00
154+00
158+00
159+00
300'
ROAD CLOSED AHEAD
ROAD CLOSED
ROAD CLOSED
PROVIDE SIGN W20-3 BEFORE TENNYSON STREET
LEGEND
WORK ZONE IN THIS PHASE
DIRECTION OF TRAFFIC
CHANNELIZING DEVICE
TYPE III BARRICADE
SIGN
NOTE:
1. SEE DETOUR DRAWING MT-41 FOR DETAILS OF DETOUR SIGNING TO BE PLACED BEFORE CLOSING OREGON AVENUE AT PINEHURST BRANCH BRIDGE.
2. SEE DRAWINGS E-12 AND E-13 FOR LOCATION OF ELECTRICAL VAULT.
7/19/2017
SCALE: 1" = 20'
VOLKERT ENGINEERING, P.C.
MT - 42
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION
RECONSTRUCTION OF OREGON AVE, N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, N.W. FROM OREGON AVE. TO 37'ST. WARD 4 - WASHINGTON, D.C.
MAINTENANCE OF TRAFFIC
PHASE 3A
PINEHURST BRANCH BRIDGE

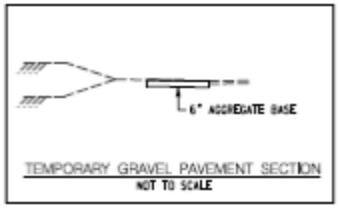
NOTES:

1. CONTRACTOR SHALL RESTRICT ALL LEFT TURNS FROM SIDE STREETS ONTO OREGON AVENUE BY PROVIDING "NO LEFT TURN" SIGNS AND ONE-WAY SIGNS.
2. CONTRACTOR SHALL PROVIDE FLAGGER CONTROL AT THE INTERSECTION OF LINDSEY DRIVE AND TENNYSON STREET WITH OREGON AVENUE TO DIRECT METRO BUS IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTION ALONG OREGON AVENUE.
3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 11' LANE ALONG OREGON AVENUE BETWEEN TENNYSON STREET AND LINDSEY DRIVE FOR BUSES. THIS SECTION OF OREGON AVENUE IS ALONG THE BUS ROUTE.
4. EXCAVATION MUST BE KEPT SAFE AT ALL TIMES.
5. OPEN TRENCHES WHICH ARE NOT BACKFILLED AND COMPACTED BY THE END OF EACH WORK DAY SHALL BE PLATED.
6. SEE DRAWING E-10 FOR LOCATION OF ELECTRICAL VAULT.
7. TEMPORARY GRAVEL PAVEMENT WILL BE NEEDED TO MAINTAIN TRAVEL LANE WHEN CONSTRUCTING UNDERGROUND ELECTRICAL VAULT.
8. THE CONTRACTOR WILL BE PAID FOR MOVING BARRIERS FROM PHASE 1 TO PHASE 2 TO PHASE 3 ONLY. MOVING BARRIERS WITHIN INDIVIDUAL PHASES (I.E. A, B, AND/OR C) WILL NOT BE MEASURED SEPARATE FOR PAYMENT. PROVISIONS OF 610.02(D)(1) WILL APPLY FOR THE MAXIMUM LENGTH OF BARRIER INSTALLED COMPLETE IN PLACE.
9. BARRIER DELINEATORS SHALL BE INSTALLED ON PORTABLE PRECAST PCC BARRIER. BARRIER DELINEATORS WILL NOT BE SEPARATELY MEASURED FOR PAYMENT. REFER TO SECTION 610.02 OF THE 2013 DDOT STANDARD SPECIFICATIONS AND SECTIONS 610.06, 610.07 AND 610.08 OF THE DDOT STANDARD DRAWINGS (AUGUST 2015) FOR INFORMATION RELATED TO BARRIER DELINEATORS.
10. THE RAISED MEDIAN ON TENNYSON STREET AT THE EXIT OF THE KNOLLWOOD MILITARY RETIREMENT COMMUNITY SHALL BE REMOVED AND REBUILT IN KIND AT THE END OF CONSTRUCTION (APPROX. 104 SF). THE REMOVAL OF THE MEDIAN, INSTALLATION OF TEMPORARY AC PAVEMENT AND ITS FINAL RECONSTRUCTION SHALL BE MEASURED AND PAID UNDER ITEMS 202002, 209002, 405016 AND 506006.





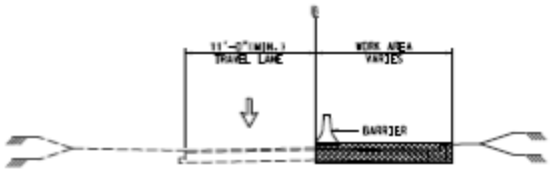
TEMPORARY PAVEMENT SECTION
NOT TO SCALE



TEMPORARY GRAVEL PAVEMENT SECTION
NOT TO SCALE

LEGEND

- WORK ZONE IN THIS PHASE
- DIRECTION OF TRAFFIC
- TRAFFIC CONCRETE BARRIER
- CHANNELIZING DEVICE
- TYPE III BARRICADE
- SIGN
- FLAGGER
- TEMPORARY GRAVEL



SECTION A-A
NOT TO SCALE

SCALE: 1" = 20'

7/15/2017

MT - 45

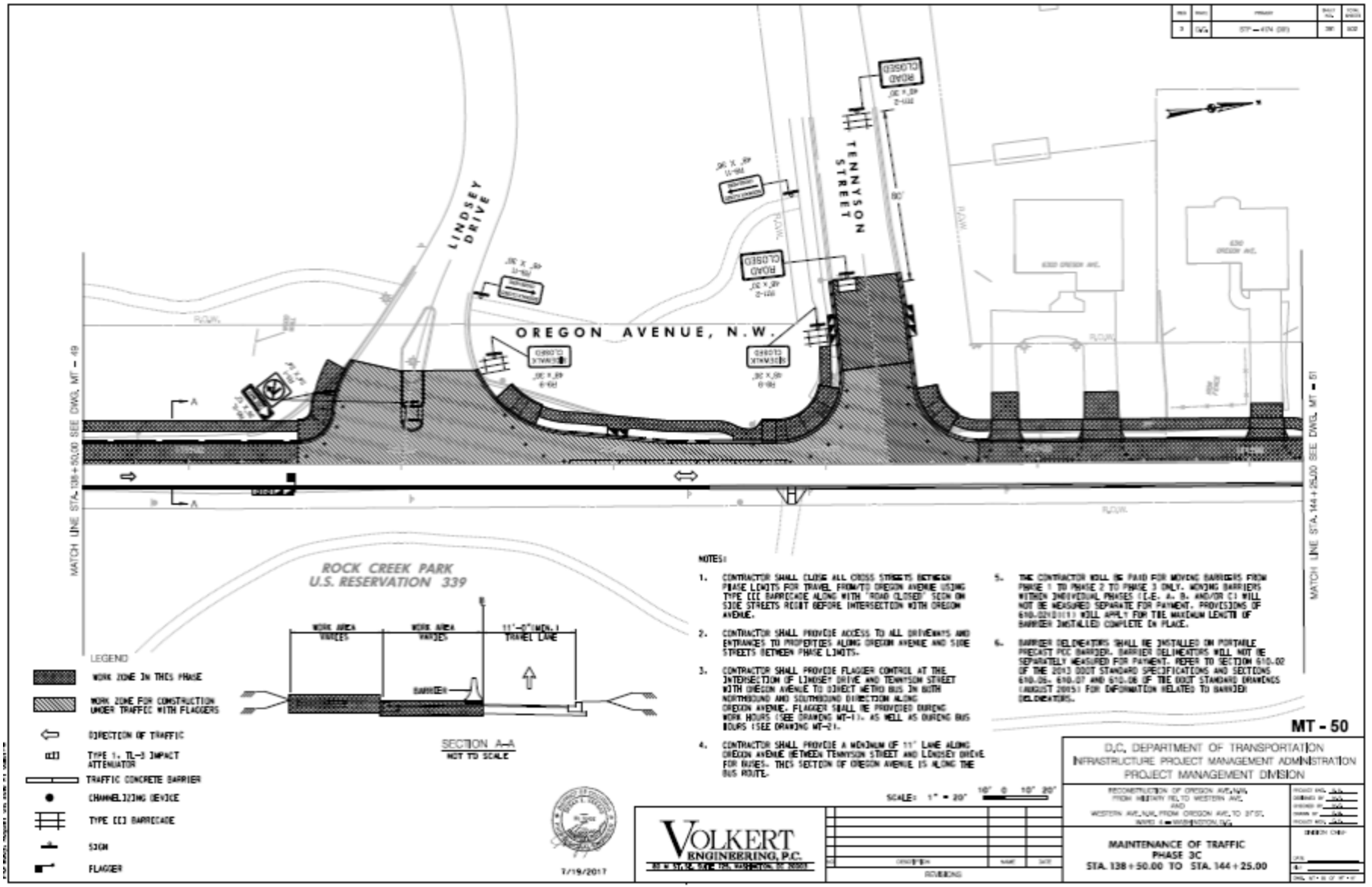
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE./WA. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE./MD. FROM OREGON AVE. TO 31ST. AND R.I. AVE. - WASHINGTON, D.C.

MAINTENANCE OF TRAFFIC
PHASE 3B
STA. 138+50.00 TO STA. 144+25.00

VOLKERT ENGINEERING, P.C.

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		



SECTION A–A
NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL CLOSE ALL CROSS STREETS BETWEEN PHASE LIMITS FOR TRAVEL FROM/TO OREGON AVENUE USING TYPE III BARRICADE ALONG WITH "ROAD CLOSED" SIGN ON SIDE STREETS RIGHT BEFORE INTERSECTION WITH OREGON AVENUE.
2. CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND ENTRANCES TO PROPERTIES ALONG OREGON AVENUE AND SIDE STREETS BETWEEN PHASE LIMITS.
3. CONTRACTOR SHALL PROVIDE FLAGGER CONTROL AT THE INTERSECTION OF LINDSEY DRIVE AND TENNYSON STREET WITH OREGON AVENUE TO DIRECT METRO BUS IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTION ALONG OREGON AVENUE. FLAGGER SHALL BE PROVIDED DURING WORK HOURS (SEE DRAWING MT-1). AS WELL AS DURING BUS HOURS (SEE DRAWING MT-21).
4. CONTRACTOR SHALL PROVIDE A MINIMUM OF 11' LANE ALONG OREGON AVENUE BETWEEN TENNYSON STREET AND LINDSEY DRIVE FOR BUSES. THIS SECTION OF OREGON AVENUE IS ALONG THE BUS ROUTE.
5. THE CONTRACTOR WILL BE PAID FOR MOVING BARRIERS FROM PHASE 1 TO PHASE 2 TO PHASE 3 ONLY. MOVING BARRIERS WITHIN INDIVIDUAL PHASES (I.E. A, B, AND/OR C) WILL NOT BE MEASURED SEPARATE FOR PAYMENT. PROVISIONS OF 610.02(b)(1)(i) WILL APPLY FOR THE MAXIMUM LENGTH OF BARRIER INSTALLED COMPLETE IN PLACE.
6. BARRIER DELINEATORS SHALL BE INSTALLED ON PORTABLE PRECAST PCC BARRIER. BARRIER DELINEATORS WILL NOT BE SEPARATELY MEASURED FOR PAYMENT. REFER TO SECTION 610.02 OF THE 2013 DDOT STANDARD SPECIFICATIONS AND SECTIONS 610.05, 610.07 AND 610.08 OF THE DDOT STANDARD DRAWINGS (AUGUST 2015) FOR INFORMATION RELATED TO BARRIER DELINEATORS.

SCALE: 1" = 20'

7/19/2017

VOLKERT ENGINEERING, P.C.
20 M ST.SE, SUITE 700, WASHINGTON, DC 20003

NO.	DESCRIPTION	NAME	DATE
	REVISIONS		

MT - 50

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

RECONSTRUCTION OF OREGON AVE, N.W. FROM MILITARY RD. TO WESTERN AVE. AND WESTERN AVE, N.W. FROM OREGON AVE. TO 37'ST. WARD 4 — WASHINGTON, D.C.

MAINTENANCE OF TRAFFIC PHASE 3C
STA. 138+50.00 TO STA. 144+25.00