# PROPOSED IMPROVEMENTS TOWN OF BRANDON, COUNTY OF RUTLAND PARK STREET ROADWAY AND INFRASTRUCTURE **IMPROVEMENTS** STP MM18(5) JUNE, 2019 ROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE INSTALLATION OF

<u>-</u>	VTRANS STANDARD DRAWI	NGS
STANDARD	DESCRIPTION	DATE
A-76	STANDARDS FOR TOWN & DEVELOPMENT ROADS	3/3/03
B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	7/8/05
C-2B	PORTLAND CEMENT SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10/14/05
C-3A	SIDEWALK RAMPS	3/10/08
C-10	CURBING	2/11/08
D-11	STEEL OR IRON GRATES & COVERS (TYPE A)	6/1/94
D-13	CONCRETE CATCH BASIN	1/3/00
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE TYPE D & E	6/01/94
D-16	PRECAST REINFORCED CONCRETE CURB DROP INLET WITH CAST IRON GRATE TYPE B & C	6/01/94
D-22	SANITARY SEWER SYSTEMS	3/10/95
E-193	PAVEMENT MARKING DETAILS	8/18/95
E-194	BICYCLE PAVEMENT MARKINGS AND SIGN LAYOUT	3/15/05
T—1	TRAFFIC CONTROL GENERAL NOTES	8/6/12
T-2	TRAFFIC SIGN GENERAL NOTES	4/25/16
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	8/6/12
T-28	CONSTRUCTION SIGN DETAILS	8/6/12
T-31	CONSTRUCTION SIGN DETAILS	8/6/12

# SELECT BOARD

SETH HOPKINS, CHAIR DOUG BAILEY, VICE-CHAIR DEVON FULLER, CLERK BRIAN COOLIDGE TRACY WYMAN

# TOWN MANAGER

DAVID ATHERTON

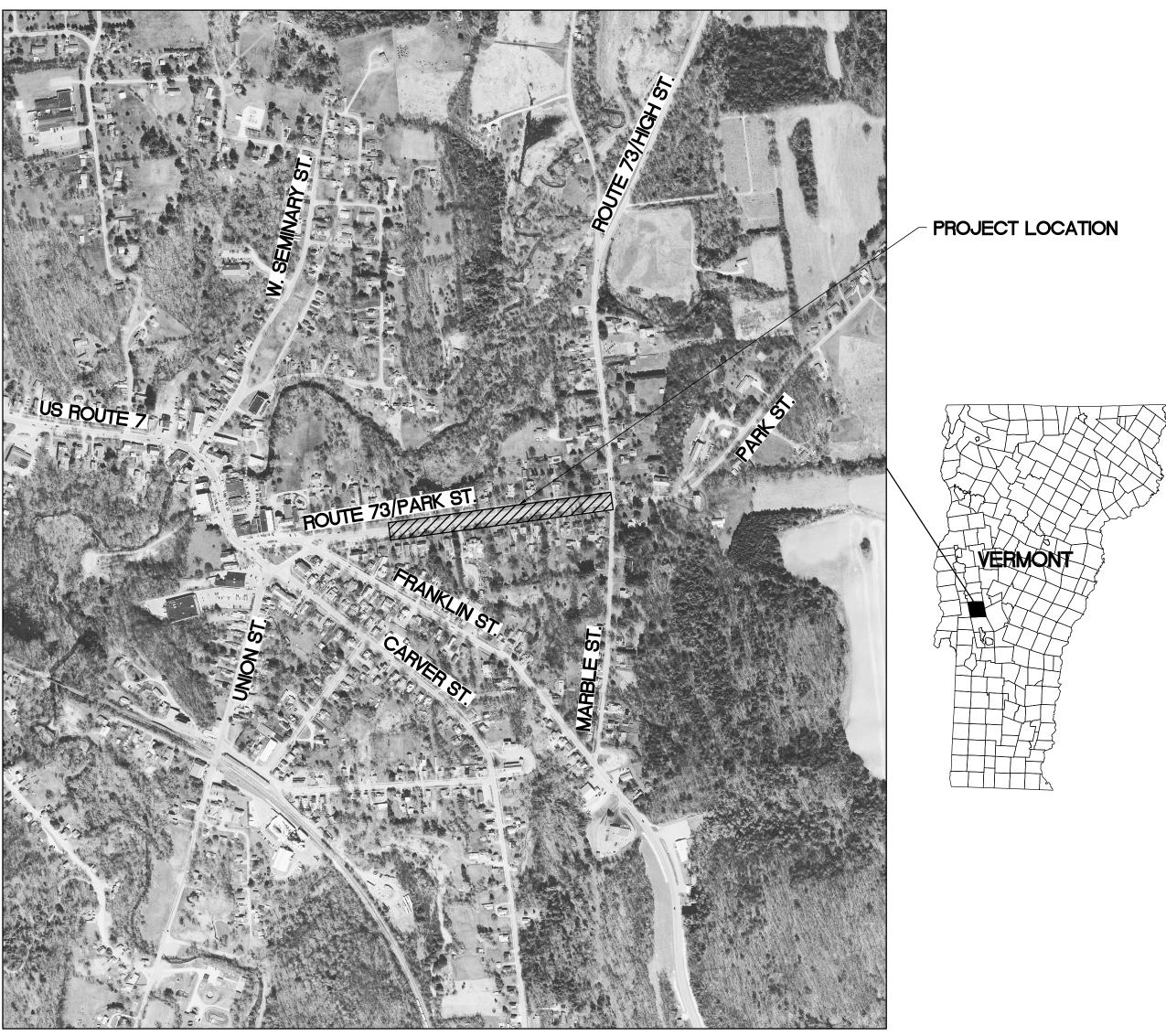
# PUBLIC WORKS DIRECTOR

DARYL BURLETT

# BRANDON FIRE DISTRICT No. 1

RAYMOND COUNTER, OPERATOR TOPOGRAPHIC SURVEY DATUM IS BASED ON THE NATIONAL GEODETIC SURVEY USING NAD 83 (1996) HORIZONTAL DATUM AND NAVD 88 VERTICAL DATUM.

VERMONT AGENCY OF TRANSPORTATION QUALITY ASSURANCE PROGRAM = LEVEL 3



APPROXIMATELY 1,300 LINEAR FEET OF NEW 16" DUCTILE IRON WATERMAIN AND APPURTENANCES. 1,300 LINEAR FEET OF 10" PVC GRAVITY SEWERLINE AND APPURTENANCES, APPROXIMATELY 500 LINEAR FEET OF PVC STORMDRAIN AND APPURTENANCES, NINE BIO-RETENTION SWALES WITH CONCRETE CURB AND PLANTINGS APPROXIMATELY 2,600 LINEAR FEET OF NEW GRANITE CURB. APPROXIMATELY 1,300 LINEAR FEET OF ROADWAY RECLAIMING, ROADWAY REGRADING, ROADWAY RESURFACING, AND MISCELLANEOUS APPURTENANCES.

PROJECT LOCATION:

PARK STREET (ROUTE 73), BRANDON, VERMONT BEGINNING AT A POINT APPROXIMATELY 40 LINEAR FEET EAST OF THE INTERSECTION WITH FRANKLIN STREET (ROUTE 7) AND EXTENDING EAST 1,300 LINEAR FEET TO THE INTERSECTION WITH MARBLE STREET.

### INDEX OF DRAWINGS

DRAWING NO.	TITLE
T 1 2 3 4 5 6 7 8 9 10 11 12 13	TITLE SHEET AND IN GENERAL CONSTRUC QUANTITY SHEET PARK STREET UTILIT PARK STREET UTILIT PARK STREET SURF, PARK STREET SURF, PARK STREET SECTI PARK STREET SECTI PARK STREET SECTI PARK STREET SECTI WATER DETAILS SEWER AND STORM STORMWATER DETAIL SIDEWALK AND ROAI
14 15 16 17	TYPICAL ROADWAY ( EROSION CONTROL TRAFFIC CONTROL F PLANTING PLAN

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION FOR THE VERMONT AGENCY OF TRANSPORTATION. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS INCORPORATED IN THESE PLANS

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LOCATION MAP SCALE: 1"=500'

INDEX OF DRAWINGS CTION NOTES, LEGEND AND LOCATION PLAN

ITY PLAN AND PROFILE STA. 166+00 TO 173+00 ITY PLAN AND PROFILE STA. 173+00 TO 179+00 FACE PLAN AND PROFILE STA. 166+00 TO 173+00 FACE PLAN AND PROFILE STA. 173+00 TO 179+00 TIONS TIONS

WATER DETAILS

ADWAY DETAILS CROSS SECTIONS DETAILS AND NOTES

PHASE: CONTRACT PLANS AS OF JUNE 3, 2019

	Addrich + Elliott Addrich + Elliott Market Place, Suite 2 Essex Jct., VT 05452 P: 802.879.7733 AEengineers.com								
	Atengineers.com								
XED	JRB	JRB							
CHECKED	JRI	JRI							
DESCRIPTION	PLANTING PLAN	VTRANS COMMENTS							
Ш	18	/19							
DATE	2/5/18	3/21,							
No.	-	7							
	PROPOSED IMPROVEMENTS TOWN OF BRANDON, VERMONT COUNTY OF RUTLAND								
	PARK STREET ROADWAY AND INFRASTRUCTURE IMPROVEMENTS								
	TITLE SHEET AND INDEX OF DRAWINGS								
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	JRB DATE								

JUNE, 2019

# PLAN-EXISTING

PROPERTY LINE	PL
RIGHT-OF-WAY	
MAJOR CONTOUR	360
MINOR CONTOUR	361
WATERLINE	
SANITARY SEWER	
STORMDRAIN	SD
	OHPOHPOHP
	OHTOHTOHT
	UGTUGT
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BITUMINOUS PAVEMENT	
GRAVEL ROAD-DRIVE-PATH	
SIDEWALK-CONCRETE	
SIDEWALK-BRICK-STONE	214019890830218902186083028502
CURB	
САР	C
GATE VALVE	$\bowtie$
CURB STOP	$\otimes$
FIRE HYDRANT	
WELL-BEDROCK	
MANHOLE	BR
CLEAN OUT	°c.o.
CATCH BASIN-DRYWELL	⊞
PRV VAULT	$\mathbb{W}$
METER PIT	(MP)
FLUSHING HYDRANT	-¢-
ELECTRICAL PEDESTAL	(E)
TELEPHONE PEDESTAL	$\langle T \rangle$
UTILITY POLE	$\phi$
GUY WIRE	Ψ (
DECIDUOUS TREE	
CONIFEROUS TREE	
STUMP	
SHRUB	
BOLLARD	•
MAILBOX	
SURVEY STATION	
TEMPORARY BENCHMARK	<u>твм</u>
PROPERTY PIN	Ŭ
	©

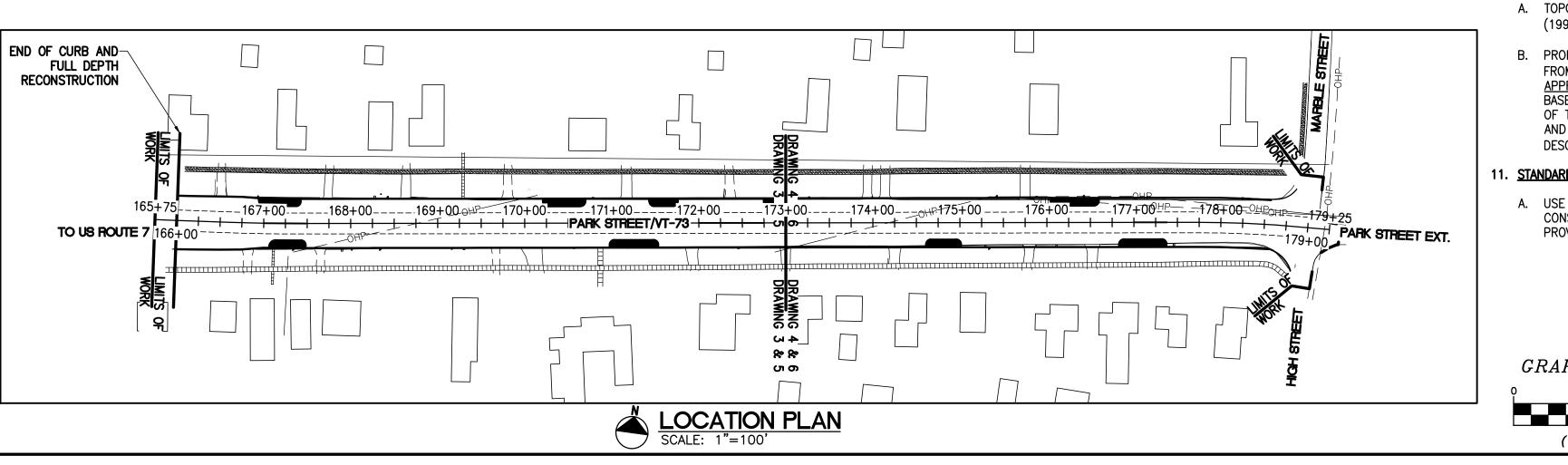
# **PROFILE-EXISTING**

GROUND SURFACE	
PIPE	
UTILITY CROSSING	
SOIL BORING-PROBE	B-1 (NLTD)
PLAN-PROPOSED	
WATERLINE	
SEWER	
STORMDRAIN	
SILT FENCE	-00-
PERMANENT EASEMENT LIMITS	
TEMPORARY EASEMENT LIMITS	

GRANITE CURB
SEWER CLEAN OUT
CAP
REDUCER
GATE VALVE
CURB STOP
FIRE HYDRANT
TRANSITION COUPLING
SAMPLING STATION •
STONE CHECK DAM
TEST PIT

### **PROFILE-PROPOSED**

ROUND SURFACE
EWER PIPE
STORMDRAIN PIPE
NSULATION
YDRANT BRANCH CONNECTION
BEND-TEE
GATE VALVE
REDUCER
RANSITION COUPLING
CORPORATION STOP



# GENERAL CONSTRUCTION NOTES

#### 1. <u>SAFETY</u>

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P-1

(REF)

- A. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE AND LOCAL SAFETY LAWS AND BUILDING CODES TO PREVENT ACCIDENTS OR INJURY. THE CONTRACTOR SHALL ERECT AND PROPERLY MAINTAIN AT ALL TIMES ALL NECESSARY SAFEGUARDS AND BARRICADES FOR THE PROTECTION OF EMPLOYEES ON THE WORK AND SAFETY OF OTHERS EMPLOYED NEAR THE WORK AND THE PUBLIC. FURTHER, THE CONTRACTOR SHALL POST DANGER SIGNS AND OTHER WARNING DEVICES TO PROTECT INDIVIDUALS FROM BEING INJURED IN THE VICINITY OF THE WORK.
- B. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE V.O.S.H.A. SAFETY REQUIREMENTS. THE CONTRACTOR SHALL ENSURE ALL WORK PROCEEDS IN ACCORDANCE WITH V.O.S.H.A. REQUIREMENTS FOR SAFETY TRENCHING, EXCAVATION, AND CONFINED SPACE ENTRY PROCEDURES.
- C. THE CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT AND FACILITIES AS ARE NECESSARY AND REQUIRED TO PROVIDE EMERGENCY FIRST AID TO ANY PERSON WHO MAY BE INJURED IN THE PROSECUTION OF THE WORK UNDER THIS CONTRACT.
- D. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY TRAFFIC CONTROL SIGNS AND DEVICES BEFORE COMMENCING WORK ON THE PROJECT IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION AND REVISIONS).

#### 2. EASEMENTS

- A. THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN TEMPORARY CONSTRUCTION EASEMENT LIMITS AND/OR RIGHTS-OF-WAY AS SHOWN ON THE PLANS.
- B. WHERE NO TEMPORARY CONSTRUCTION EASEMENT IS SHOWN ON CONTRACT DRAWINGS, THE CONTRACTOR SHALL STAY WITHIN THE PERMANENT EASEMENT LIMITS, AND/OR RIGHTS-OF-WAY DURING CONSTRUCTION, AS SHOWN ON THE PLANS.

#### 3. PROTECTION OF WORK

- A. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL BUILDINGS. STRUCTURES AND UTILITIES (BOTH PUBLIC AND PRIVATE). INCLUDING POWER POLES, SIGNS, UTILITY SERVICES, WATER MAINS, HYDRANTS, SEWERS, FORCE MAINS, STORM DRAINS, BURIED ELECTRICAL OR CONTROL WIRES, GAS LINES, AND TELEPHONE CABLES WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS.
- B. THE CONTRACTOR SHALL CAREFULLY SUPPORT AND PROTECT ANY UTILITIES. STRUCTURES. PIPE LINES, AND CONDUITS WHICH MAY BE ENCOUNTERED DURING COMPLETION OF THE WORK. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT CONTRACTOR'S EXPENSE.

#### 4. MAINTENANCE OF FLOWS

A. THE CONTRACTOR SHALL, AT THEIR OWN COST, MAKE PROVISIONS FOR MAINTAINING FLOW THROUGH EXISTING FORCE MAINS. SEWER LINES, WATERLINES, STORM DRAINS, AND WATER COURSES WHICH MUST BE INTERRUPTED DURING THE PROGRESS OF THE WORK. UPON COMPLETION OF THE WORK. ALL TEMPORARY FLOW DIVERSIONS. STRUCTURES, AND PIPING SHALL BE REMOVED FROM THE SITE.

#### 5. **BURIED UTILITIES**

- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. THOSE SHOWN ON THE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MEET WITH THE ENGINEER, OWNER, VERMONT AGENCY OF TRANSPORTATION. REPRESENTATIVES OF THE TELEPHONE COMPANY. ELECTRICITY COMPANY. GAS COMPANY. CABLE COMPANY, AND ANY OTHER UTILITY COMPANIES INVOLVED WITH THE CONSTRUCTION OF THIS PROJECT TO COORDINATE THE MARKING, AND TIMING OF DISRUPTIONS OF THE VARIOUS UTILITIES, IF ANY.
- THE CONTRACTOR SHALL EXCAVATE TEST PITS AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER. THESE SHALL BE EXCAVATED TO LOCATE BURIED UTILITIES AND TO DETERMINE SIZE. LOCATIONS AND/OR MATERIALS OF EXISTING UTILITIES. SOME HAND EXCAVATING MAY BE NECESSARY TO PROTECT UTILITIES. TEST PITS SHALL BE EXCAVATED AT LEAST TWO (2) WEEKS PRIOR TO CONSTRUCTION SO THAT DESIGN REVISIONS MAY BE MADE IF REQUIRED. TEST PITS INDICATED ON DRAWINGS OR BY WRITTEN DIRECTION FROM THE ENGINEER WILL BE PAID FOR UNDER BID ITEM FOR "MISC., EXTRA, AND BELOW GRADE EXCAVATION."
- C. EXISTING UTILITIES SHALL BE PROTECTED OR REMOVAL AND REPLACEMENT SHALL BE COORDINATED WITH THE APPROPRIATE COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIR OF ANY SUCH DAMAGE AS QUICKLY AS POSSIBLE AT HIS OWN EXPENSE. ALL UTILITIES WHICH MAY BE BROKEN OR DAMAGED SHALL BE REPAIRED TO AS GOOD OR BETTER CONDITION AND RECONNECTED FOR SERVICE. SUBMIT ALL REPAIR METHODS TO THE ENGINEER FOR APPROVAL. NO REPAIR SHALL BE BACKFILLED PRIOR TO INSPECTION BY THE ENGINEER IN THE FIELD. CONTRACTOR SHALL TAKE MEASUREMENTS TO DOCUMENT WHERE ALL SERVICE REPAIRS ARE MADE. RECORDS SHALL BE MADE AVAILABLE TO THE ENGINEER AND OWNER UPON REQUEST AND PRIOR TO THE END OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SUPPLY OF REPAIR MATERIALS AND PIPE ON THE JOB SITE AT ALL TIMES IN ORDER TO MINIMIZE THE INCONVENIENCE CAUSED BY SUCH DAMAGE.

# 6. <u>CONSTRUCTION</u>

- ADDITIONAL COST.

### 7. <u>SITEWORK</u>

- REQUIRED PERMITS.

### 8. <u>RECORD DOCUMENTS</u>

A. ALL BURIED UTILITIES ENCOUNTERED SHALL BE DOCUMENTED WITH DEPTH AND THREE (3) TIES AND SHOWN BY THE CONTRACTOR ON RECORD DRAWINGS.

B. ALL NEW UTILITY LINES AND APPURTENANCES SHALL BE DOCUMENTED WITH THREE (3) DISTANCE TIES AND DEPTH OF BURY, AND SHOWN BY THE CONTRACTOR ON RECORD DRAWINGS. THIS INFORMATION SHALL BE KEPT CURRENT AND SHALL BE PROVIDED TO THE ENGINEER IMMEDIATELY UPON REQUEST.

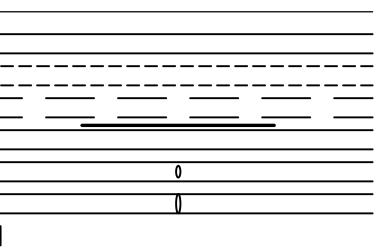
### 9. <u>DIGSAFE</u>

A. CONTRACTOR SHALL NOTIFY DIG SAFE TWO (2) WEEKS PRIOR TO ANY ANTICIPATED EXCAVATIONS. CONTRACTOR SHALL NOT EXCAVATE IN ANY AREAS UNTIL RESPECTIVE UTILITIES HAVE BEEN TO THE SITE AND MARKED UTILITIES. (DIG SAFE: 1-888-344-7233). CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH THE TOWN OF BRANDON (DARYL BURLETT. 802-247-3635 X210) TO MARK THE SEWER AND BRANDON FIRE DISTRICT No. 2 (RAY COUNTER 802-247-3311) TO MARK WATER.

### 10. <u>SURVEY</u>

# 11. <u>STANDARDS</u>

- PROVISIONS.
- GRAPHIC 100 ( IN FEL



A. THE CONTRACTOR SHALL USE ONLY DESIGNATED BENCH MARKS FOR REFERENCE ELEVATIONS. B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING UTILITY POLES AS NECESSARY. THE

COST OF UTILITY POLE HOLDING SHALL BE INCIDENTAL TO THE PIPE. ALL WORK SHALL BE IN CONFORMANCE WITH UTILITY COMPANY REQUIREMENTS.

C. SUBSURFACE EXPLORATION LOGS ARE BOUND IN THE SPECIFICATIONS.

D. THE CONTRACTOR SHALL INSTALL A MECHANICAL PLUG IN THE END OF ALL PIPE WORK AT THE COMPLETION OF EACH WORK DAY TO SEAL IT FROM WATER AND SOIL.

E. ADDITIONAL BENDS, AS NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR AT NO

F. CONTRACTOR SHALL DOCUMENT THE LOCATIONS OF EXISTING SEWER AND WATER SERVICES AS THEY ENCOUNTER THEM DURING CONSTRUCTION.

G. EROSION CONTROL, AS NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR, IN ACCORDANCE WITH CONTRACT DOCUMENTS. EROSION CONTROLS SHALL BE IN PLACE DOWNSTREAM OF THE AREA OF CONSTRUCTION PRIOR THE START OF ANY EARTH DISTURBANCE. ALL DISTURBED AREAS ARE TO BE IMMEDIATELY STABILIZED.

H. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA WITHIN THREE (3) WORKING DAYS OF INITIAL DISTURBANCE. ALL RESTORATION SHALL BE AS GOOD OR BETTER THAN ORIGINAL CONDITION AND SHALL MEET THE REQUIREMENTS SET FORTH IN THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN BASIS OF DESIGN.

CONTRACTOR SHALL COORDINATE WITH EACH PROPERTY OWNER AND THE TOWN OF BRANDON TO PERFORM INTERIOR AND EXTERIOR CONDITION ASSESSMENTS OF EACH BUILDING WITHIN THE PROJECT LIMIT. THIS WORK MUST BE COMPLETED PRIOR TO COMMENCING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL HAVE AN INDEPENDENT ENTITY VIDEO DOCUMENT EACH BUILDING'S CONDITION AND PROVIDE COPIES TO THE PROPERTY OWNER, TOWN, AND ENGINEER PRIOR TO START OF WORK. THIS WORK IS CONSIDERED INCIDENTAL TO MOBILIZATION.

A. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING PRECONSTRUCTION CONDITIONS BY USE OF PHOTOGRAPHS, VIDEO TAPES, AND OTHER METHODS. EXISTING FENCES, GUARDRAILS, SIGNS, CATCH BASINS, CULVERTS, HEADWALLS, ETC. REMOVED BY THE CONTRACTOR SHALL BE REPLACED TO AT LEAST THEIR ORIGINAL CONDITION. THE COST OF THIS PRECONSTRUCTION DOCUMENTATION AND RECONSTRUCTION SHALL BE INCIDENTAL TO THE UNIT PRICE BID ITEM FOR PIPE WORK.

B. ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER. A COPY OF A WRITTEN AGREEMENT BETWEEN THE CONTRACTOR AND THE SITE OWNER SHALL BE SUBMITTED TO THE ENGINEER BEFORE ANY MATERIAL IS DEPOSITED ON ANY SITE. DISPOSAL OF EXCESS MATERIAL OFF-SITE SHALL BE PERFORMED IN ACCORDANCE WITH SOLID WASTE MANAGEMENT DIVISION REGULATIONS AND SHALL INCLUDE OBTAINING ANY

C. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRAVEL PATH, PAVED SHOULDERS, ROADWAY SURFACES, DRIVEWAYS, GRASSED AREAS, AND CULVERTS TO THE SAME OR BETTER CONDITION AT PROJECT COMPLETION. THE COST OF RESTORATION SHALL BE INCLUDED IN THE APPROPRIATE UNIT PRICE BID ITEM.

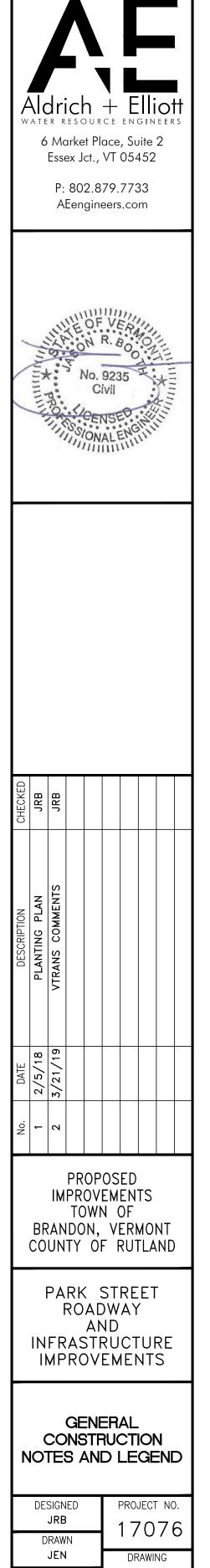
SOME MAILBOXES AND SIGNS ARE NOT SHOWN ALONG PROJECT ROUTE FOR REASONS OF CLARITY. THE CONTRACTOR SHALL RESET ALL MAILBOXES AND SIGNS AS SOON AS POSSIBLE, AS CONSTRUCTION PERMITS AND/OR AS DIRECTED BY THE ENGINEER.

E. TREES LOCATED WITHIN THE TEMPORARY CONSTRUCTION EASEMENT LIMITS SHALL NOT BE TRIMMED, DAMAGED, OR DESTROYED WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER ON A LOCATION BY LOCATION BASIS. DOCUMENTATION MUST BE FURNISHED TO THE ENGINEER PRIOR TO PERFORMING THE WORK.

A. TOPOGRAPHIC SURVEY DATUM IS BASED ON THE NATIONAL GEODETIC SURVEY USING NAD 83 (1996) HORIZONTAL DATUM AND NAVD 88 VERTICAL DATUM.

PROPERTY AND RIGHT OF WAY (ROW) LINES SHOWN ON THESE DRAWINGS WERE OBTAINED FROM VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI). THEY SHOW AN APPROXIMATION OF PROPERTY AND ROW LINES AS THEY RELATE TO THE PROJECT DETAILS BASED ON THE SOURCE REFERENCE INFORMATION. A+E DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION. THESE DRAWINGS SHALL NOT BE CONSTRUED AS A PROPERTY PLAT AND DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. 2502(4).

A. USE STATE OF VERMONT AGENCY OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2018 AND THE MOST RECENT VERSION OF THE GENERAL SPECIAL



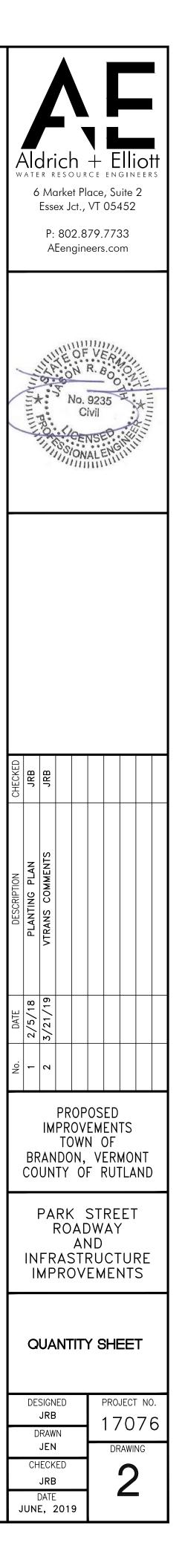
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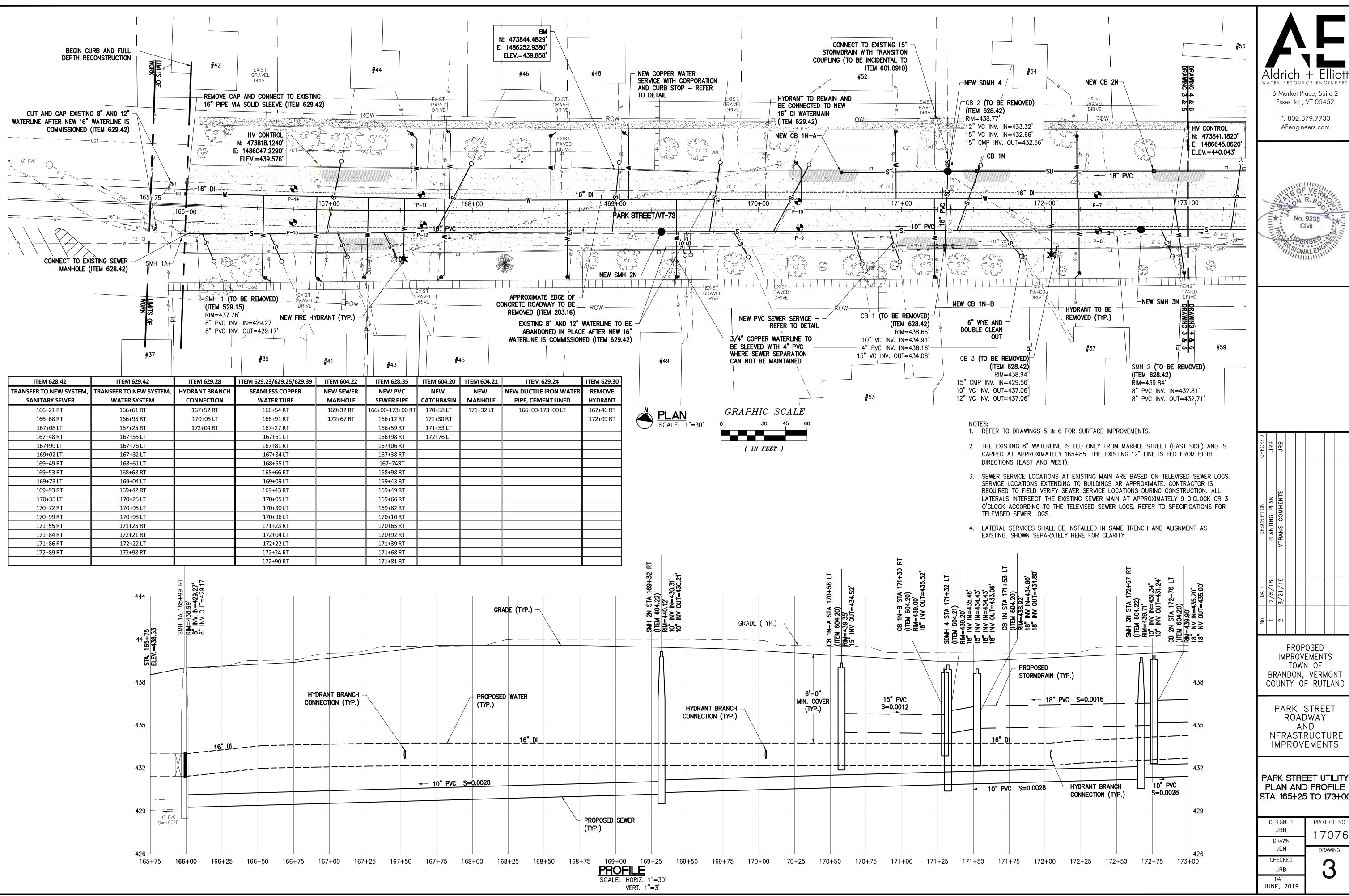
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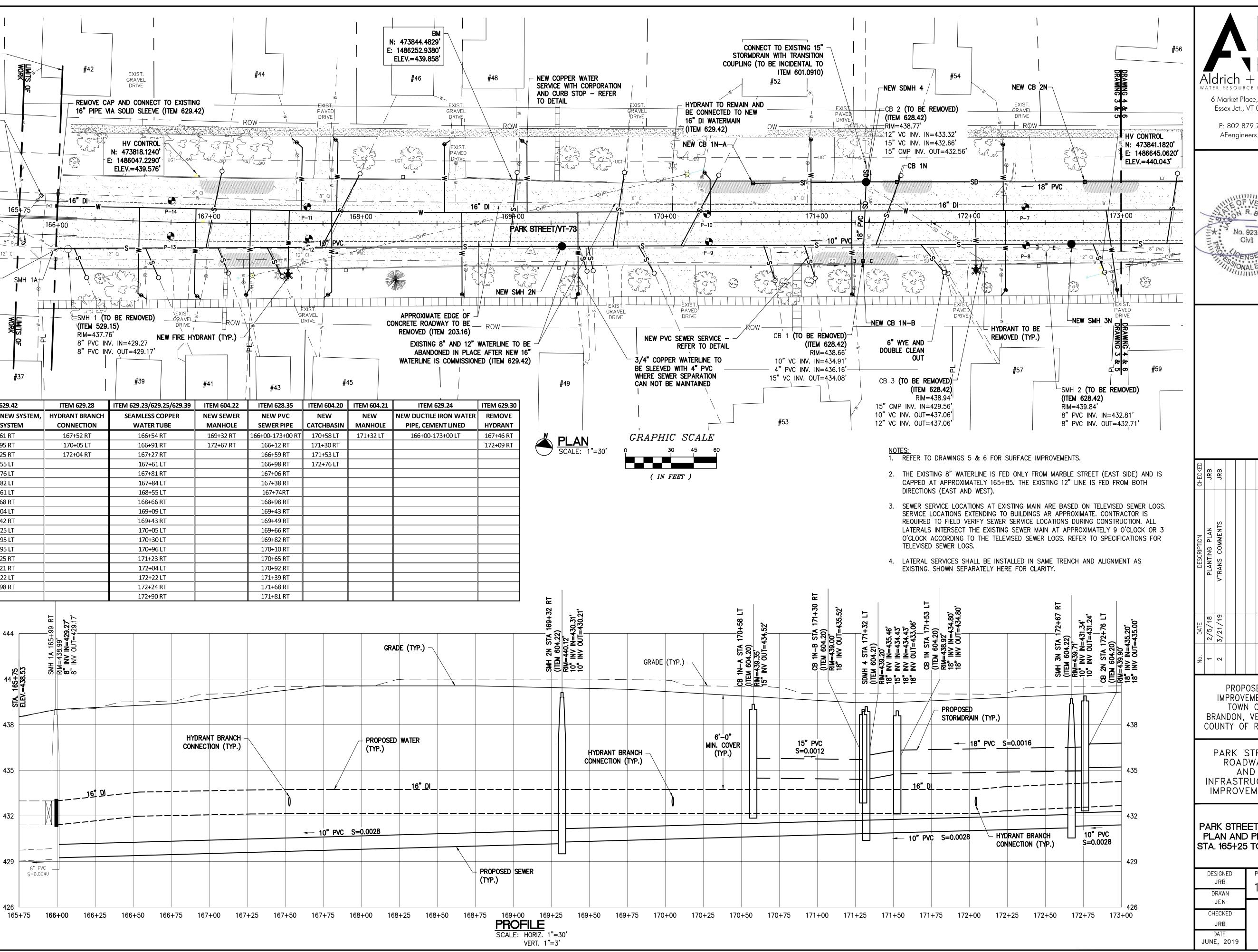
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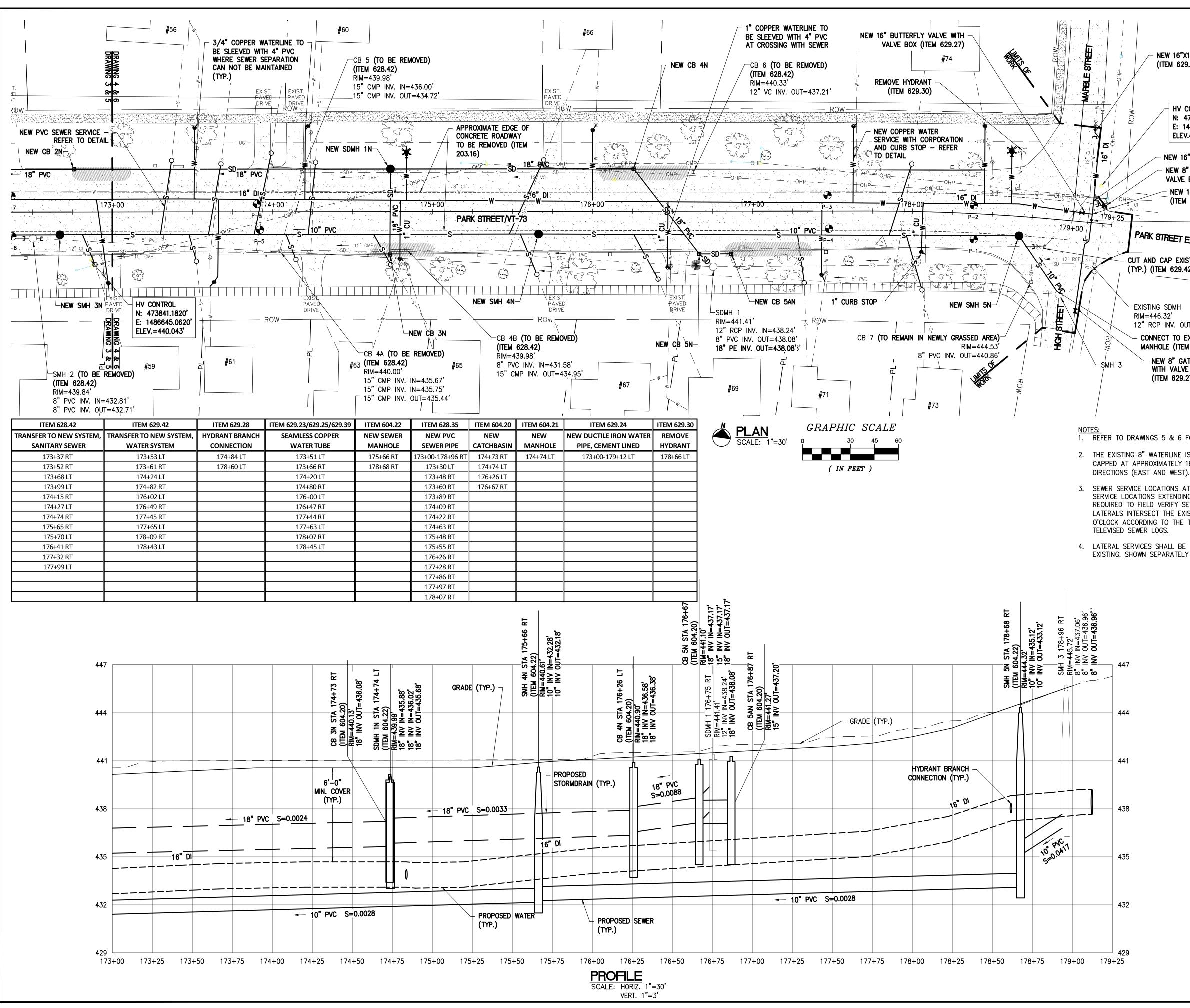
			QUI	41			<b>Y SHEET</b>		
ROADWAY PARTICIPATION)	LANDSCAPING	EROSION CONTROL	NON-PARTICIPATING	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	
3	-	-	0	3	_	EA	Removing Medium Trees	201.15	
3	_	-	0	3	-	EA	Removing Medium Stumps	201.20	
442	-	-	0	442			Solid Rock Removal (Concrete Road Removal)	203.16	_
0	-	-	2161	2161			Sand Borrow	203.31	
0	-	-	9730 1	9730		CY CY	Trench Excavation of Earth Trench Excavation of Earth, Exploratory (N.A.B.I)	204.20 204.22	
0			519	519	·	CY	Structure Excavation	204.22	
0			52	52		CY	Granular Backfill for Structures	204.30	
1440	-	-	0	1440	-	-	Subbase of Crushed Gravel, Fine Graded	301.26	
2608	-	_	1830	4438	-	CY	Subbase of Dense Graded Crushed Stone	301.35	
6	-	-	6	12		CWT	Emulsified Asphalt	404.65	
436	-	-	529	965			Bituminous Concrete Pavement	406.25	_
0	-		20	20	-		Water Repellent Silane	514.10	
0	-	-	2	2	-		Removal of Structure (Sewer Manhole)	529.15	
0	-	-	4 95	95	-		Removal of Structure (Catch Basin) 15" PVC	529.15 601.0910	
0	-	-	678	678			15" PVC 18" PVC	601.0910	
0			8	8	1		Precast Reinforced Concrete Catch Basin with Cast Iron Grate	604.20	-
0		_	2	2	-		Precast Reinforced Concrete Manhole with Cast Iron Cover	604.21	
0	-	-	4	4		EA	Sanitary Sewer Manhole	604.22	
0	-	-	4	4	· –	EA	Cast Iron Cover with Frame, Sewer	604.56	
6	_	-	0	6	-	MGAL	Dust Control with Water	609.10	
1400	-	_	560	1960		LF	Vertical Granite Curb	616.21	_
1400	-	_	560	1960			Removal of Existing Curb	616.41	_
53	-	-	0	53			Portland Cement Concrete Sidewalk, 5 Inch	618.10	
32 0	-	-	0 655	32 655		SF LF	Detectable Warning Surface PVC Sewer Pipe (4")	618.30 628.35	
0	-	-	1310	1310			PVC Sewer Pipe (10")	628.35	
0			1310	1		LS	Transfer to New System, Sanitary Sewer	628.42	-
0	-	-	3	3	_		Adjust Elevation of Valve Box	629.20	
0	-	-	1184	1184	· –	LF	Seamless Copper Water Tube (3/4")	629.23	
0	-	-	117	117	4	LF	Seamless Copper Water Tube (1")	629.23	
0	-	-	67	67		LF	Ductile Iron Water Pipe, Cement-Lined (8")	629.24	
0	-	-	1376	1376			Ductile Iron Water Pipe, Cement-Lined (16")	629.24	
0	-	-	23 3	23	-		Extension Service Box and Curb Stop (3/4") Extension Service Box and Curb Stop (1")	629.25 629.25	
0	-	-	2	2		EA	Gate Valve with Valve Box (8")	629.27	
0			1	1			Butterfly Valve with Valve Box (16")	629.27	-
0	-	_	4	4			Hydrant	629.28	
0	-	-	3	3	-	EA	Remove Hydrant	629.30	
0	_	-	23	23	-	EA	Corporation Stop (3/4")	629.39	
0	-	_	3	3	-	EA	Corporation Stop (1")	629.39	_
0	-	-	1	1	. –		Transfer to New System, Water System	629.42	
0	-	_	400	400		LF	Pipe Insulation	629.44	
396 1	-	-	<u> </u>	1200	-	HR LS	Flaggers Mobilization/Demobilization	630.15 635.11	
1			0	1		LS	Traffic Control	641.10	
0			2650	2650			Temporary 4 Inch White Line	646.600	-
0	-	-	2650	2650		LF	4 Inch Yellow Line	646.610	-
200	-	-	-	200	-	LF	Temporary Crosswalk Marking	646.700	
-	-	-	150	150	_	LB	Seed	651.15	
-	-	-	628	628	4	LB	Fertilizer	651.18	_
-	-	-	700	700	-	CY	Top Soil	651.35	
1	-	-	0	1		LS	EPSC Plan	653.01	
0	-	_	17	17		EA	Inlet Protection Device, Type II	653.41 653.48	
0	-		100 2461	2461	4		Silt Fence, Type II Project Demarcation Fence	653.48 653.55	
10	-			10	╢─────	LF	Tree Protection	656.85	
0	-	-	48	48	4	SF	Traffic Sign, Type A	675.20	1
0	-	-	90	90			Square Tube Sign Post And Anchor	675.341	1
10	_	-	0	10		EA	Special Provision (Type I/II Bioswale)	900.620	
19	-	_	0	19		EA	Special Provision (Stepping Blocks and Hitching Post Removal and Reset)	900.621	







 $\cap$ 



NEW	16"X14"	REDUCER
(ITEM	629.24	)

HV CONTROL N: 473974.6820' E: 1487263.6750' ELEV.=445.531'

NEW 16"X8" TEE (ITEM 629.24) NEW 8" GATE VALVE WITH VALVE BOX (ITEM 629.27) NEW 16"X16" TEE (ITEM 629.24)

NEW 16"X8" REDUCER (ITEM 629.24) PARK STREET EXTENSION

- CUT AND CAP EXISTING MAIN (TYP.) (ITEM 629.42)

-EXISTING SDMH RIM=446.32' 12" RCP INV. OUT=441.83' CONNECT TO EXISTING SEWER MANHOLE (ITEM 628.42)

> - NEW 8" GATE VALVE WITH VALVE BOX (ITEM 629.27)

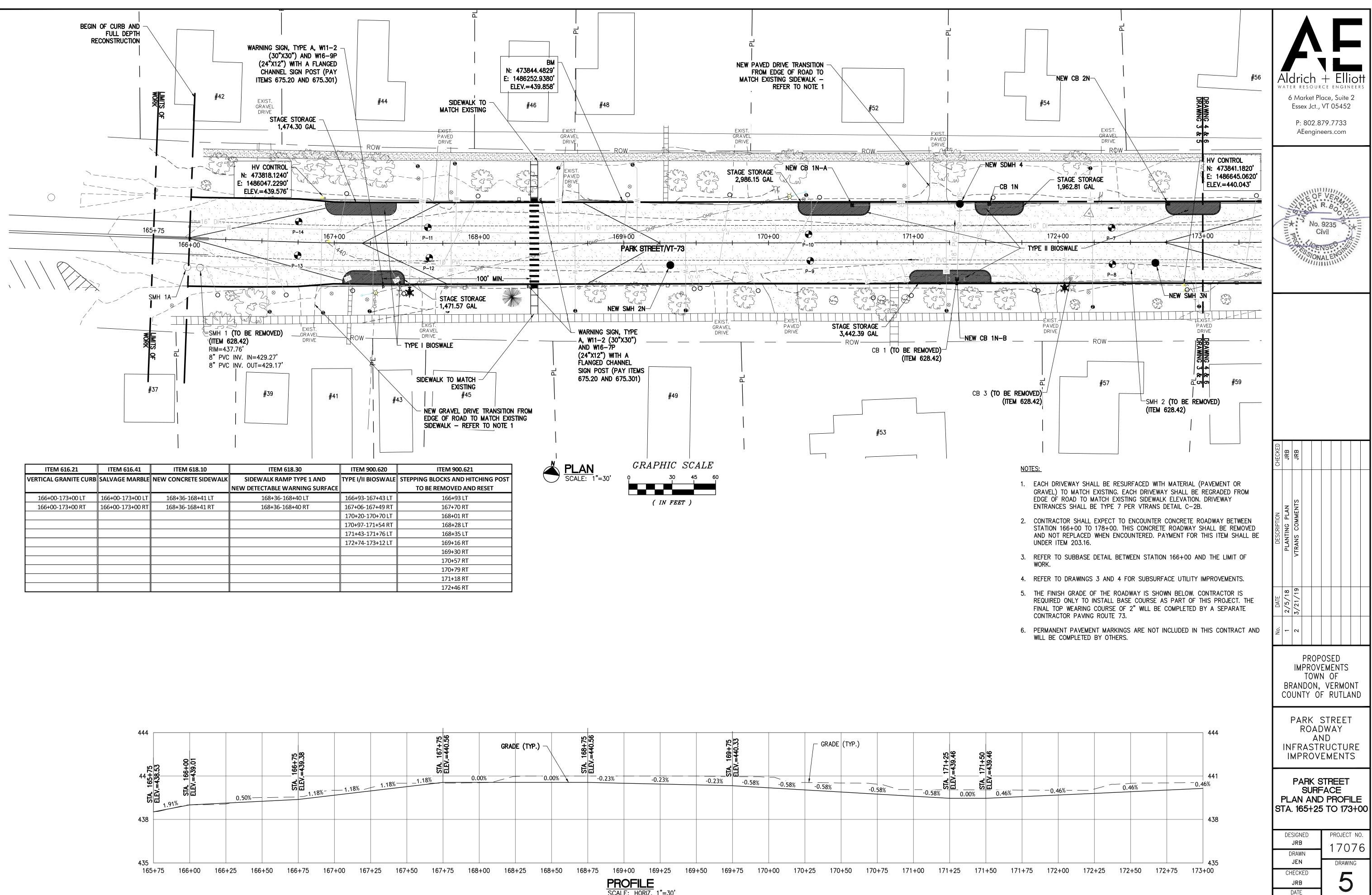
1. REFER TO DRAWINGS 5 & 6 FOR SURFACE IMPROVEMENTS.

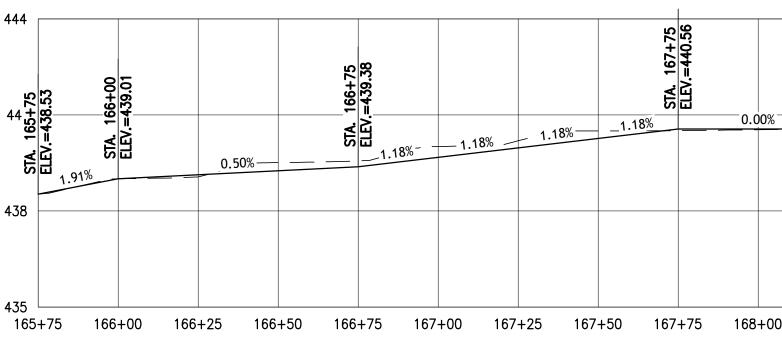
2. THE EXISTING 8" WATERLINE IS FED ONLY FROM MARBLE STREET (EAST SIDE) AND IS CAPPED AT APPROXIMATELY 165+85. THE EXISTING 12" LINE IS FED FROM BOTH

3. SEWER SERVICE LOCATIONS AT EXISTING MAIN ARE BASED ON TELEVISED SEWER LOGS. SERVICE LOCATIONS EXTENDING TO BUILDINGS AR APPROXIMATE. CONTRACTOR IS REQUIRED TO FIELD VERIFY SEWER SERVICE LOCATIONS DURING CONSTRUCTION. ALL LATERALS INTERSECT THE EXISTING SEWER MAIN AT APPROXIMATELY 9 O'CLOCK OR 3 O'CLOCK ACCORDING TO THE TELEVISED SEWER LOGS. REFER TO SPECIFICATIONS FOR

4. LATERAL SERVICES SHALL BE INSTALLED IN SAME TRENCH AND ALIGNMENT AS EXISTING. SHOWN SEPARATELY HERE FOR CLARITY.

Aldrich + Elliott Aldrich + Elliott Market Place, Suite 2 Essex Jct., VT 05452 P: 802.879.7733 AEengineers.com									
No. 9235 Civil No. 9235 Civil									
CHECKED	JRB	JRB							
DESCRIPTION	PLANTING PLAN	VTRANS COMMENTS							
DATE	2/5/18	3/21/19							
No.	1	2							
PROPOSED IMPROVEMENTS TOWN OF BRANDON, VERMONT COUNTY OF RUTLAND									
PARK STREET ROADWAY AND INFRASTRUCTURE IMPROVEMENTS									
PARK STREET UTILITY PLAN AND PROFILE STA. 173+00 TO 179+25									
	DESIGNED PROJECT NO. JRB 17076								
	СН	JEN IECK JRB DATE	ED			DR		NG	

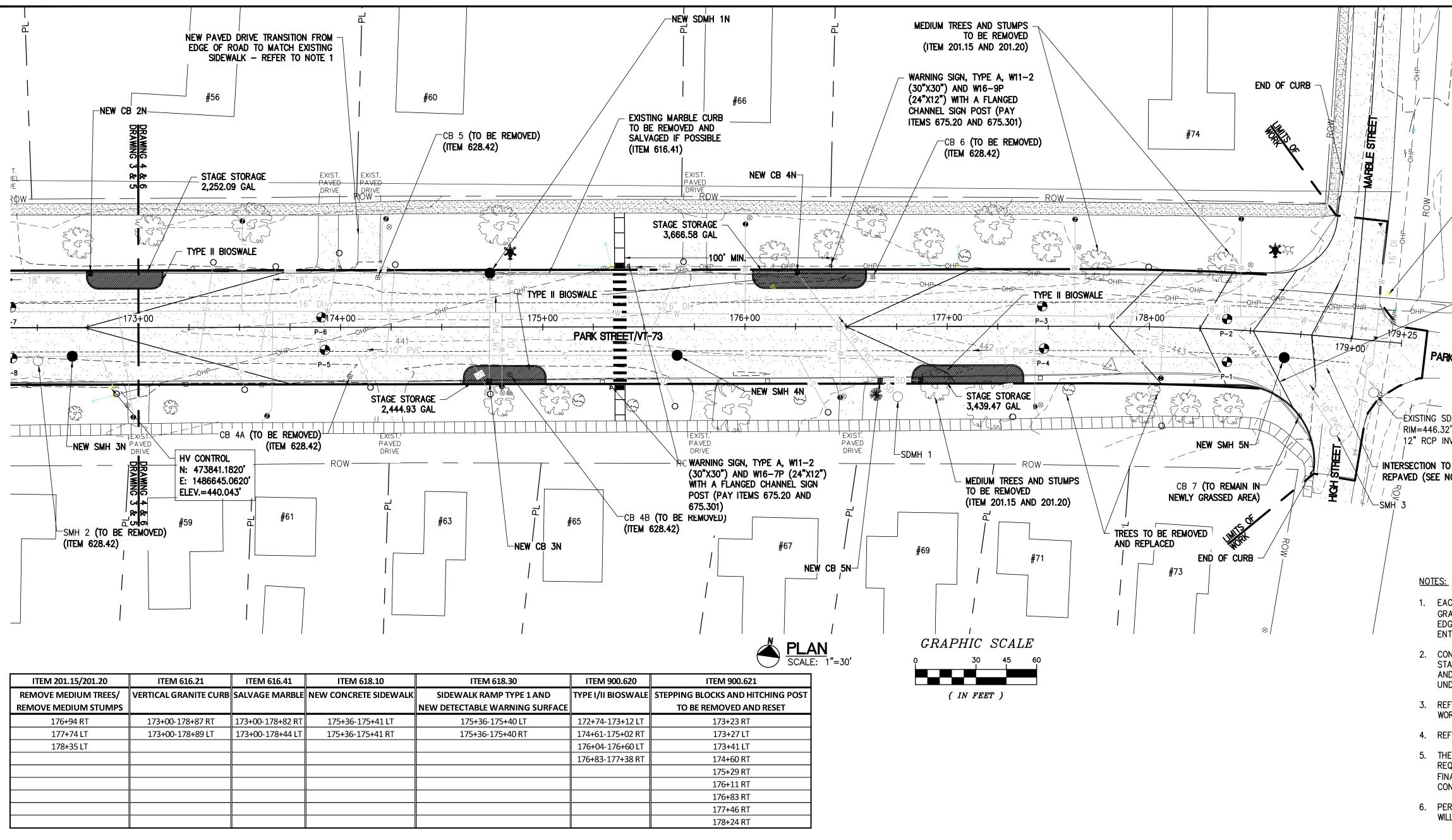




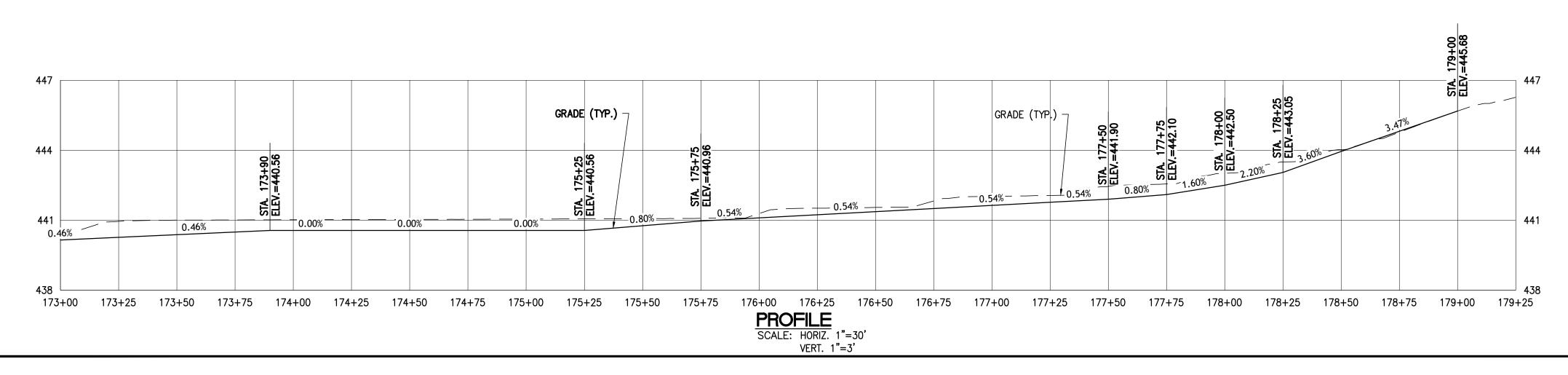
	6.

JUNE, 2019

GRA %	DE (TYP.)	STA. 168+75 ELEV.=440.56	-0.23%	-0.23%		-0.58%	(TYP.)	SIA. 171+25	· ·	97.657 
00 168	3+25 168+50	PRO	+00 169+25 <b>OFILE</b> E: HORIZ. 1"=30' VERT. 1"=3'	169+50 169+	-75 170+00 170	+25 170	+50 170+	75 171+00 171	+25 171-	-50 171+75

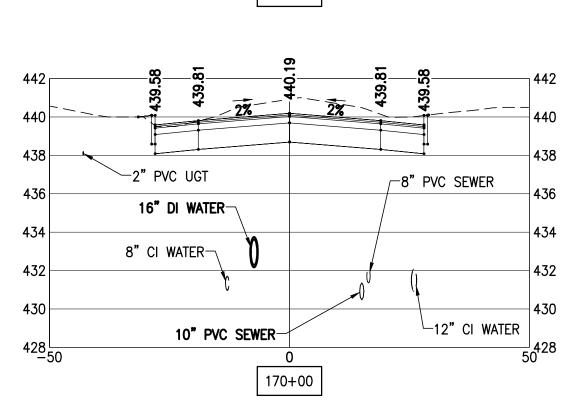


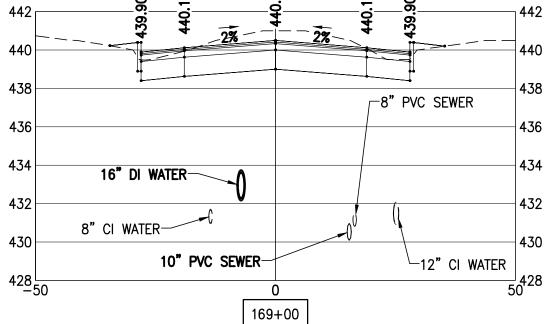
ITEM 201.15/201.20	ITEM 616.21	ITEM 616.41	ITEM 618.10	ITEM 618.30	ITEM 900.620	
<b>REMOVE MEDIUM TREES/</b>	VERTICAL GRANITE CURB	SALVAGE MARBLE	NEW CONCRETE SIDEWALK	SIDEWALK RAMP TYPE 1 AND	TYPE I/II BIOSWALE	STEPPIN
REMOVE MEDIUM STUMPS				NEW DETECTABLE WARNING SURFACE		тс
176+94 RT	173+00-178+87 RT	173+00-178+82 RT	175+36-175+41 LT	175+36-175+40 LT	172+74-173+12 LT	
177+74 LT	173+00-178+89 LT	173+00-178+44 LT	175+36-175+41 RT	175+36-175+40 RT	174+61-175+02 RT	
178+35 LT					176+04-176+60 LT	
					176+83-177+38 RT	

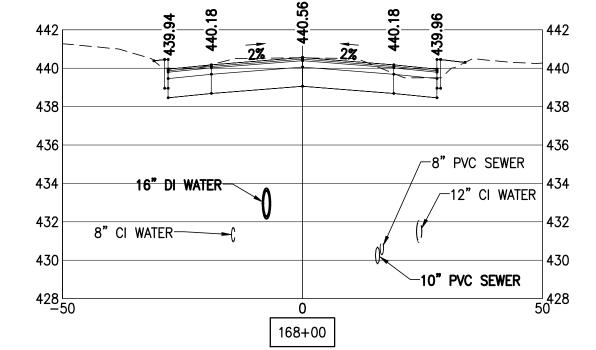


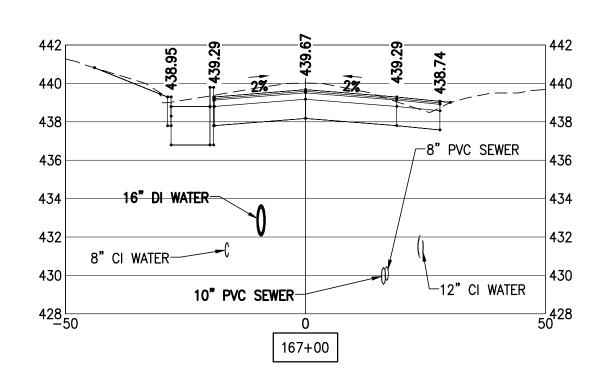
AVEL) TO MATCH EXISTING. EACH DRIVEWAY SHALL BE REGRADED FROM GE OF ROAD TO MATCH EXISTING SIDEWALK ELEVATION. DRIVEWAY TRANCES SHALL BE TYPE 7 PER VTRANS DETAIL C-2B. NTRACTOR SHALL EXPECT TO ENCOUNTER CONCRETE ROADWAY BETWEEN ATION 166+00 TO 178+00. THIS CONCRETE ROADWAY SHALL BE REMOVED D NOT REPLACED WHEN ENCOUNTERED. PAYMENT FOR THIS ITEM SHALL BE DER ITEM 203.16. FER TO SUBBASE DETAIL BETWEEN STATION 166+00 AND THE LIMIT OF RK. FER TO DRAWINGS 3 AND 4 FOR SUBSURFACE UTILITY IMPROVEMENTS. E FINISH GRADE OF THE ROADWAY IS SHOWN BELOW. CONTRACTOR IS QUIRED ONLY TO INSTALL BASE COURSE AS PART OF THIS PROJECT. THE IAL TOP WEARING COURSE OF 2" WILL BE COMPLETED BY A SEPARATE NTRACTOR PAVING ROUTE 73. RMANENT PAVEMENT MARKINGS ARE NOT INCLUDED IN THIS CONTRACT AND L BE COMPLETED BY OTHERS.		e r 6 M Ess P	rick RESC arke sex Jo Een	DUR et Plo ct., \ 2.87	ace, VT ( 79.7	, Sui 054 773	ite 2 52 3		
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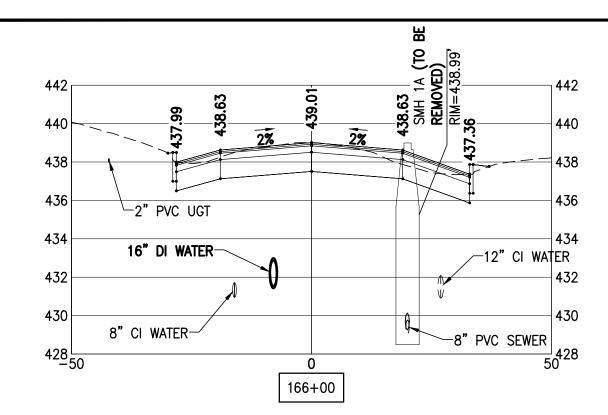


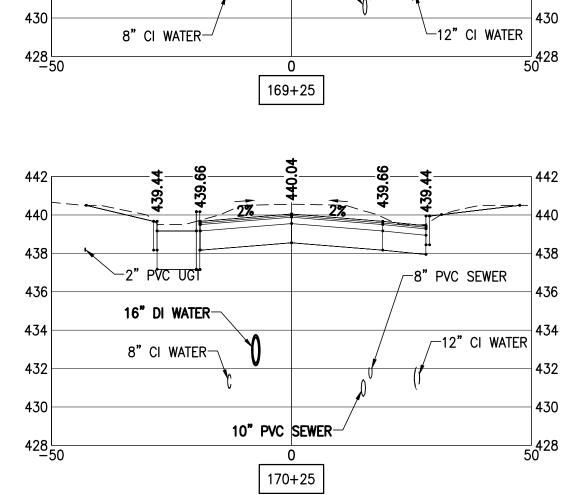


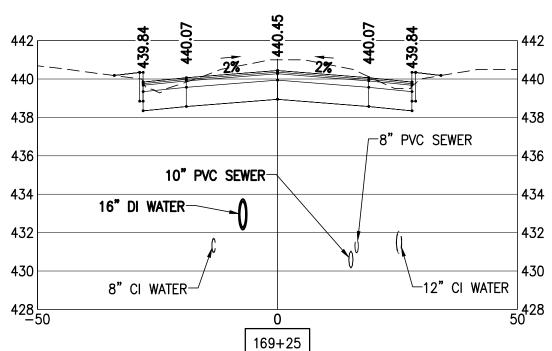


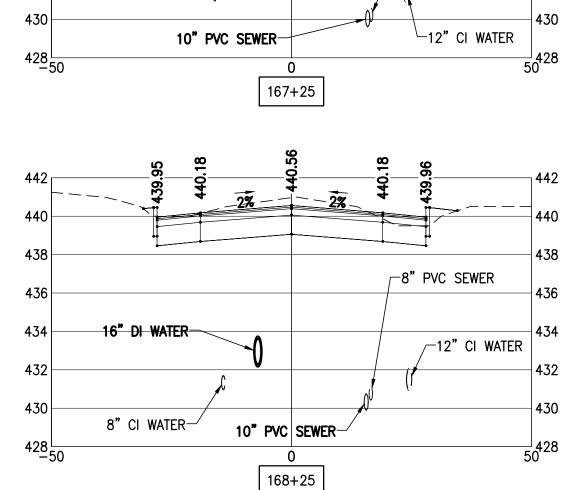


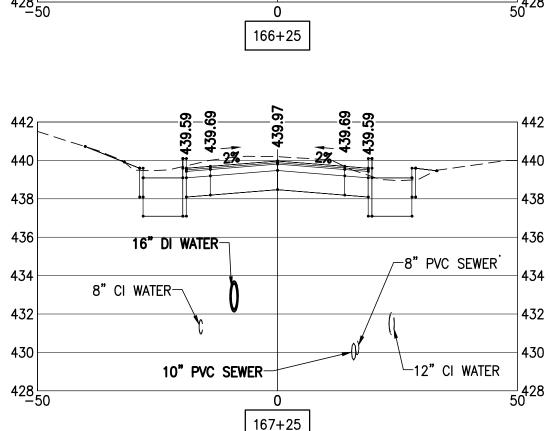


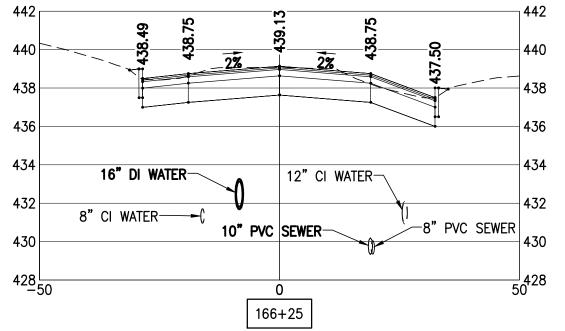


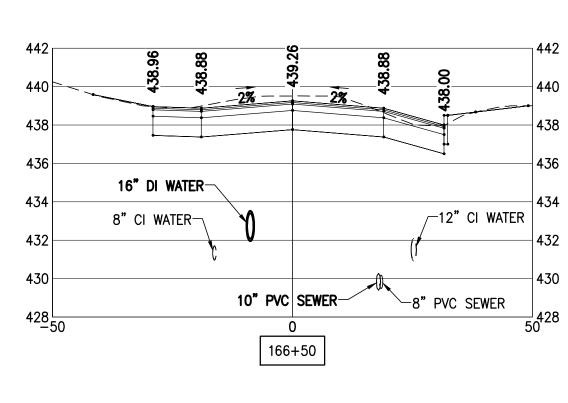


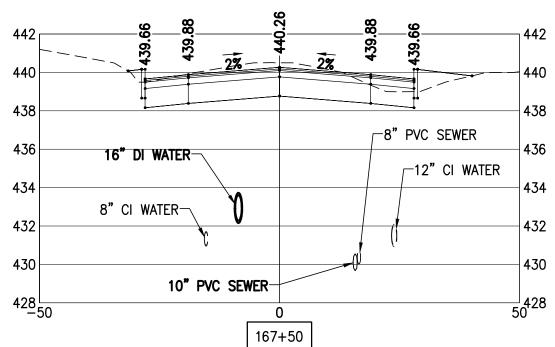


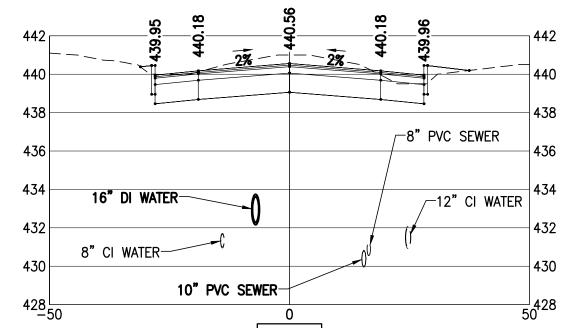


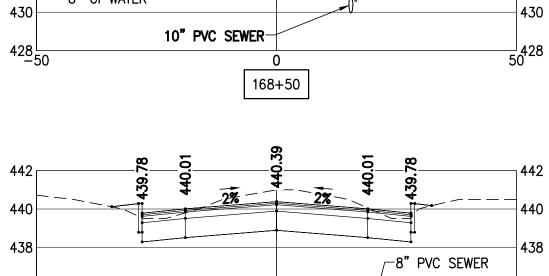








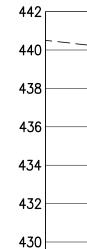


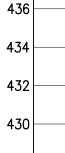


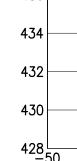
SECTIONS SCALE: HORIZ. 1"=20' VERT. 1"=5'

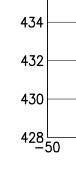
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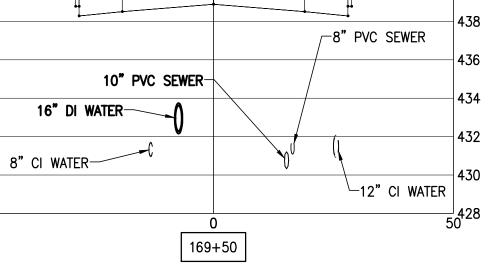


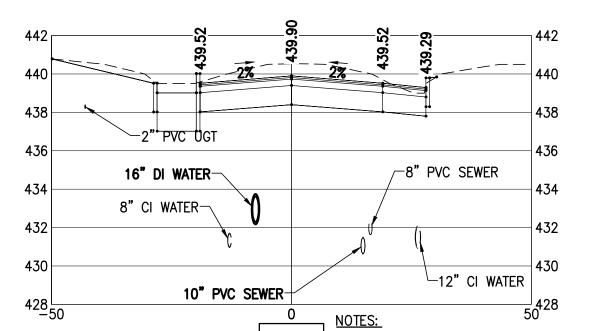




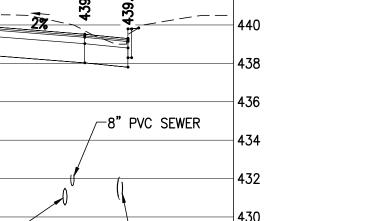


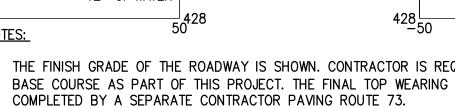




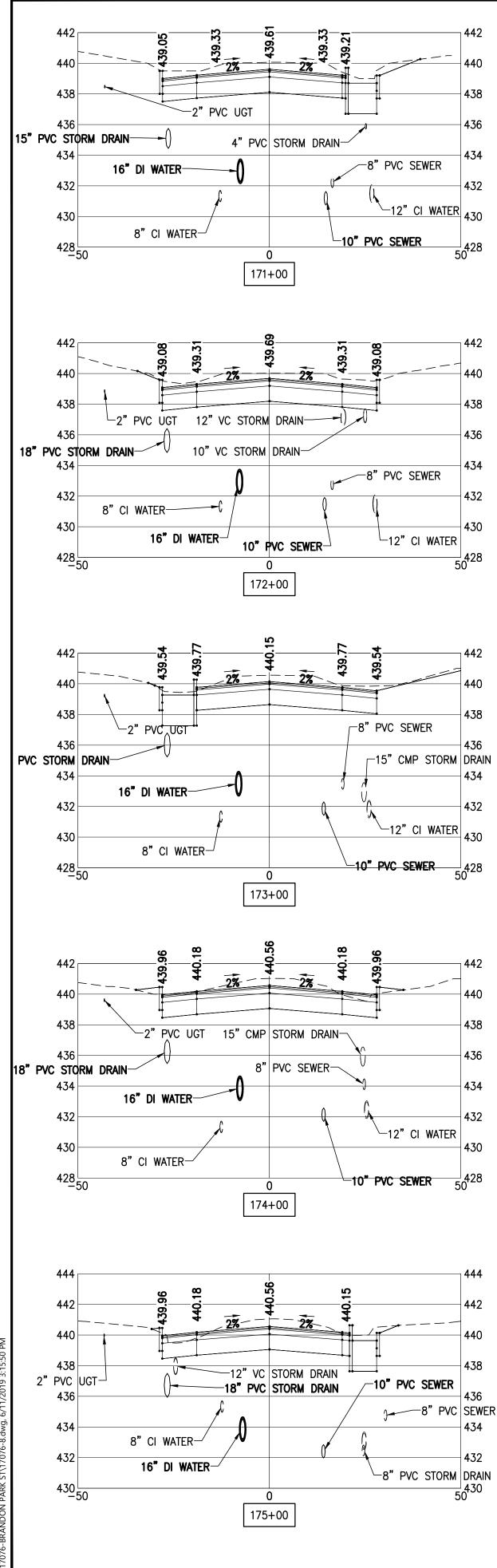


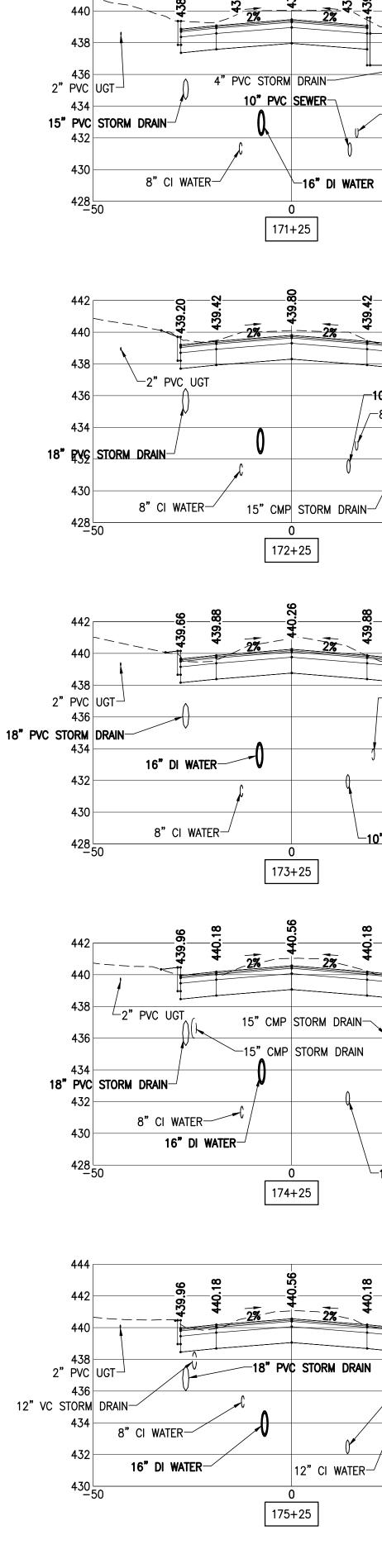
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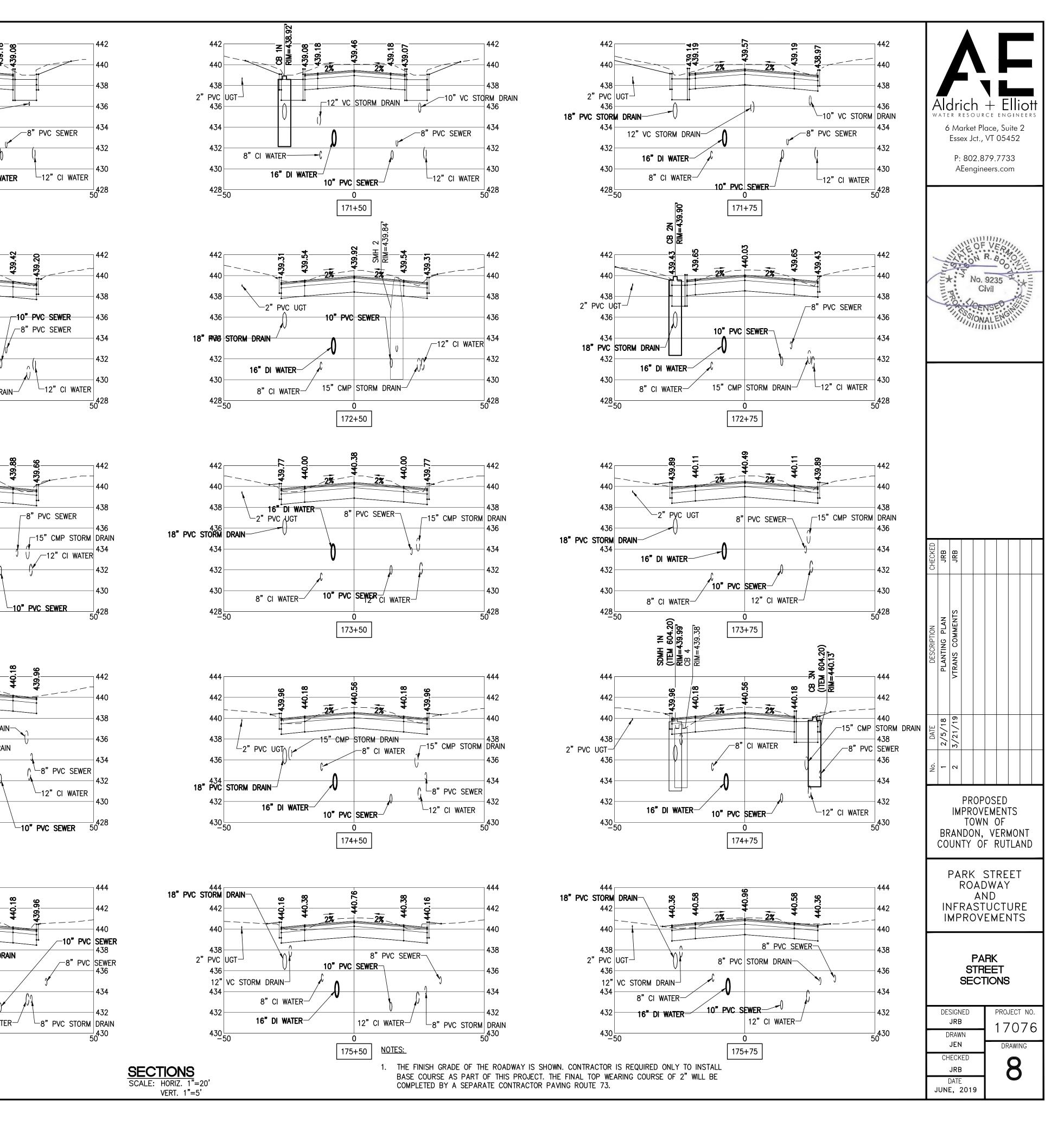


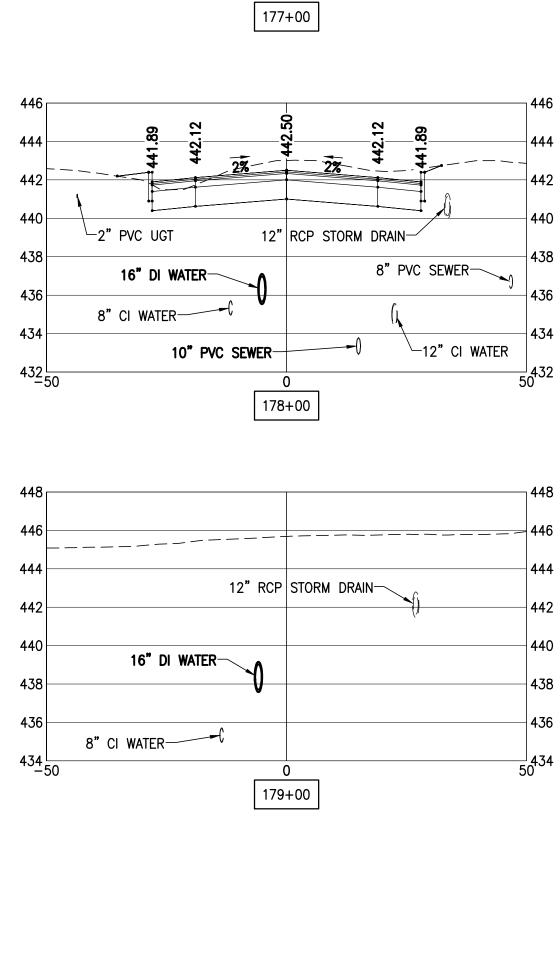


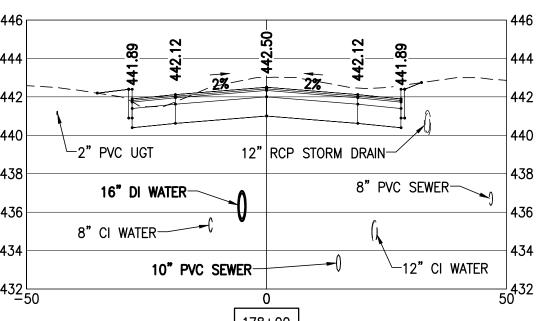
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ONTRACTOR IS REQUIRED ONLY TO INSTALL			IECK	3			7	ļ
IAL TOP WEARING COURSE OF 2" WILL BE ROUTE 73.			DATE E, 2	_ 2019	,			











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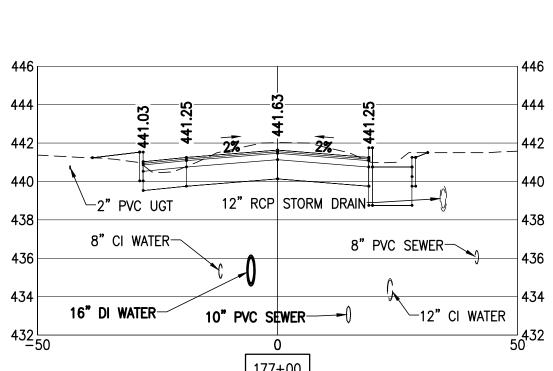
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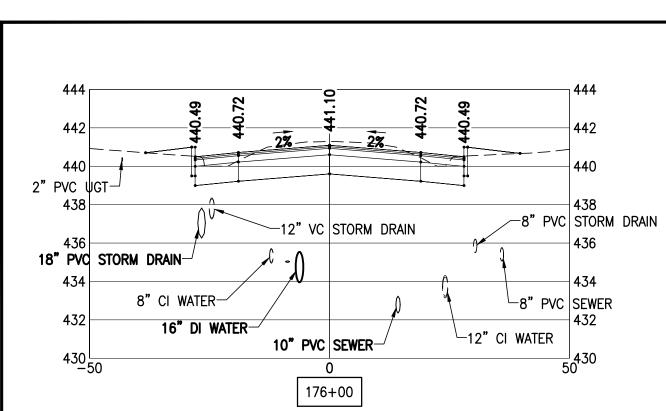
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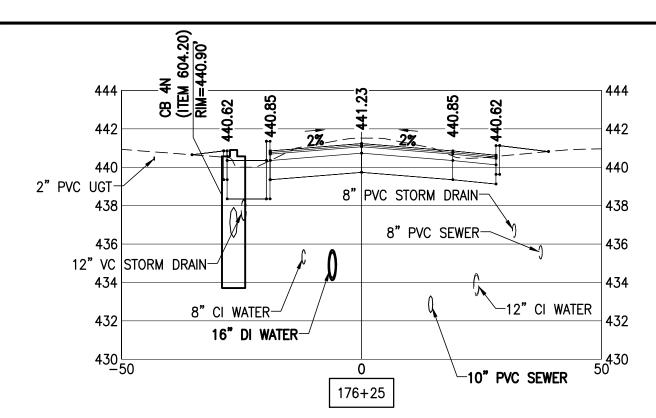
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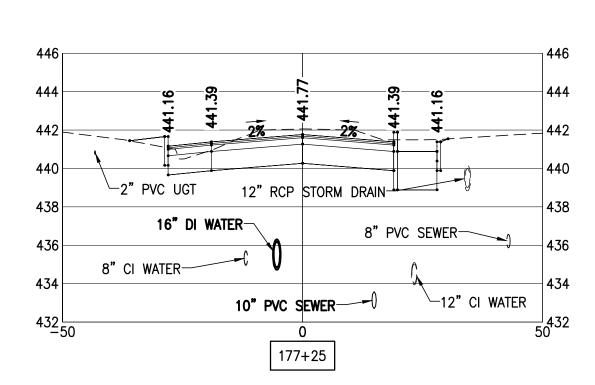
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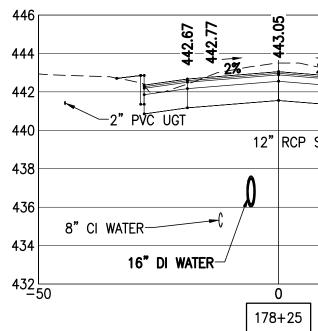
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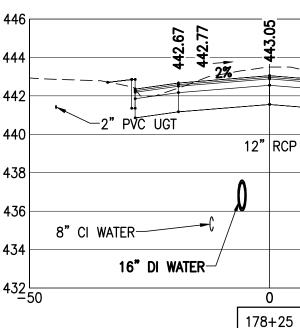










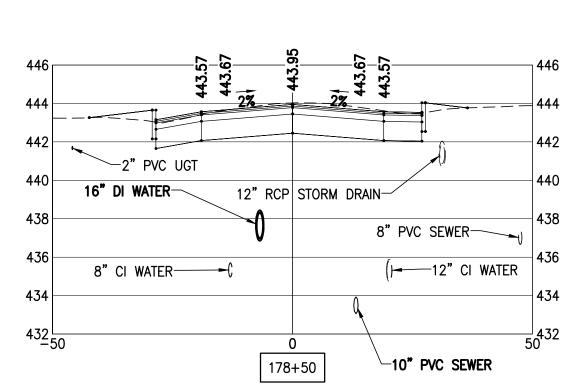


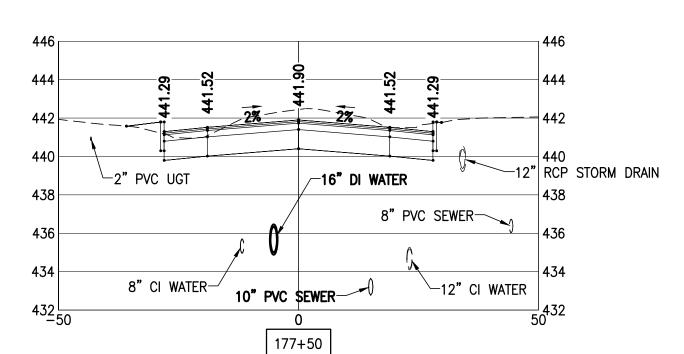


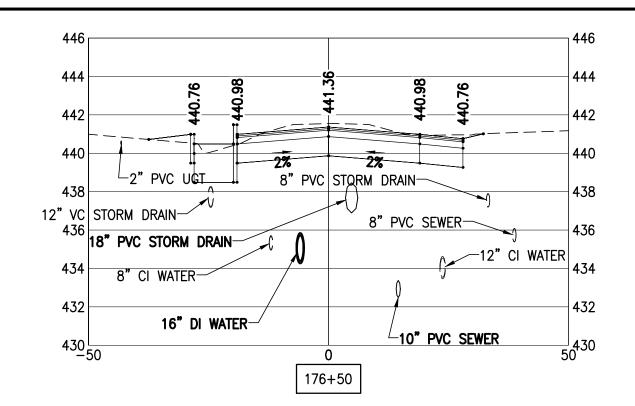
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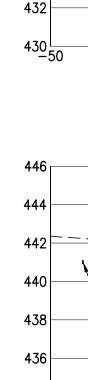
1. THE FINISH GRADE OF THE ROADWAY IS SHOWN. CONTRACTOR IS REQU BASE COURSE AS PART OF THIS PROJECT. THE FINAL TOP WEARING COMPLETED BY A SEPARATE CONTRACTOR PAVING ROUTE 73.

446 44-44 442 440 12" RCP STORM DRAIN 4.38 8" PVC SEWER 436 434 \_\_\_\_432 50 10" PVC SEWER









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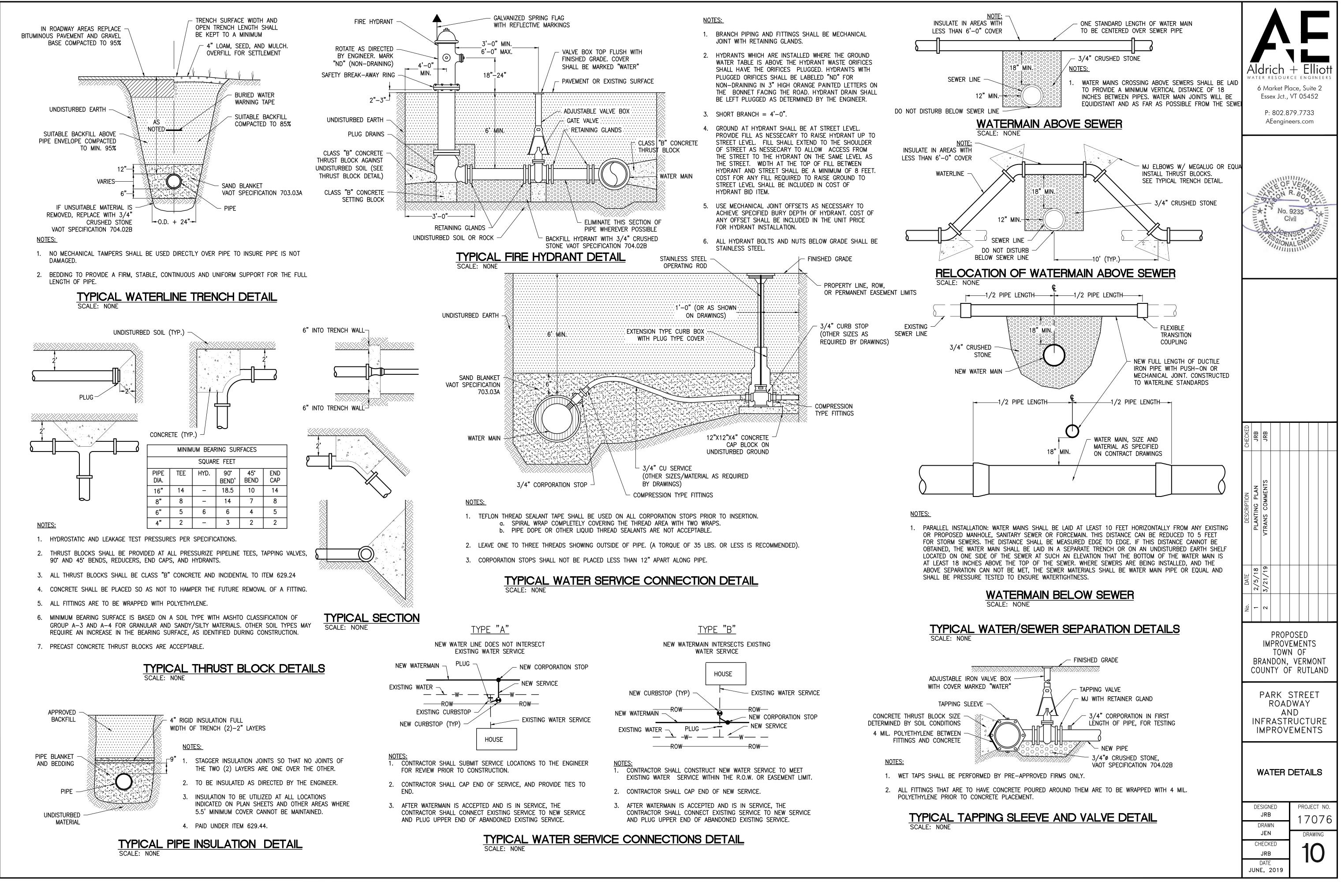
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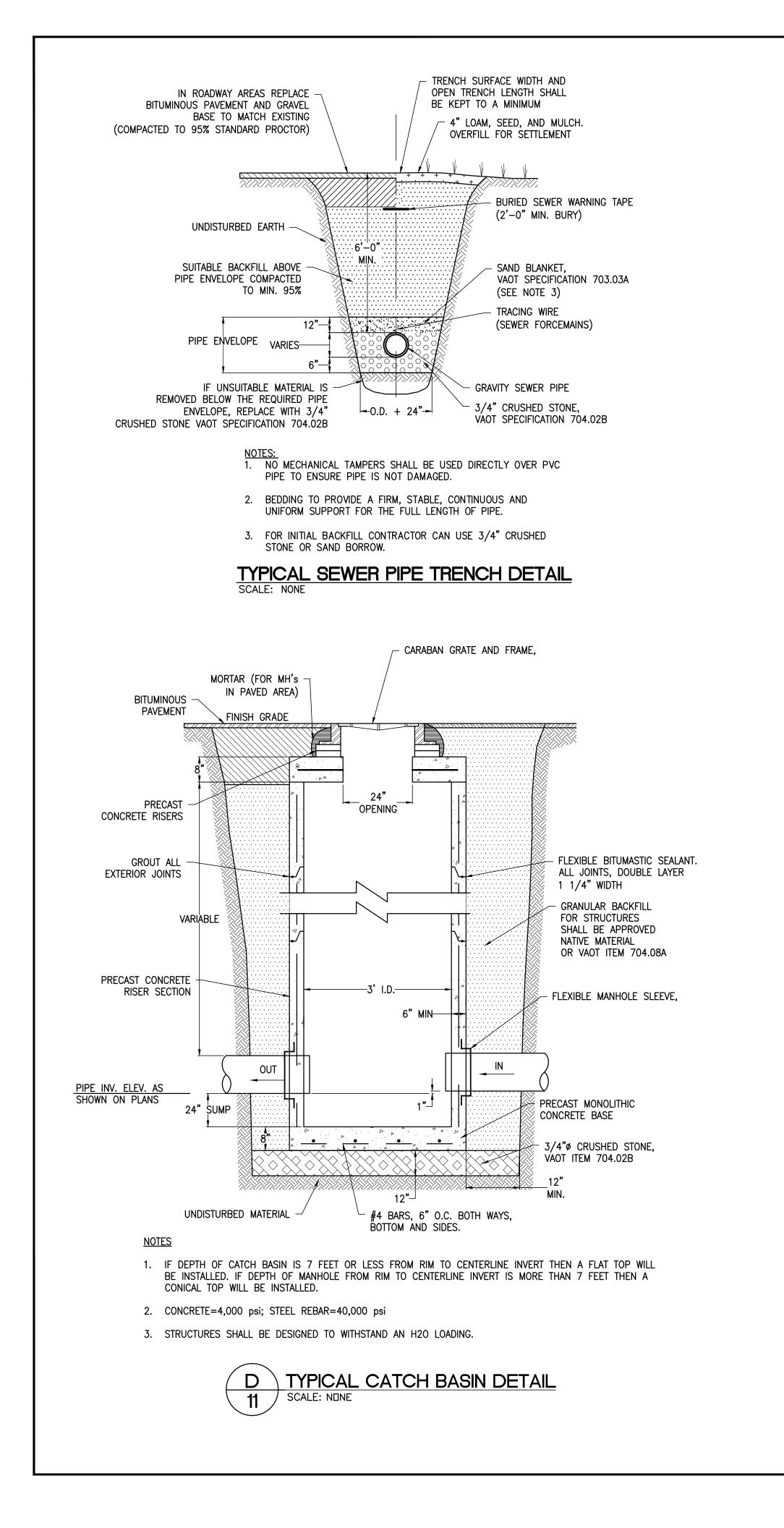
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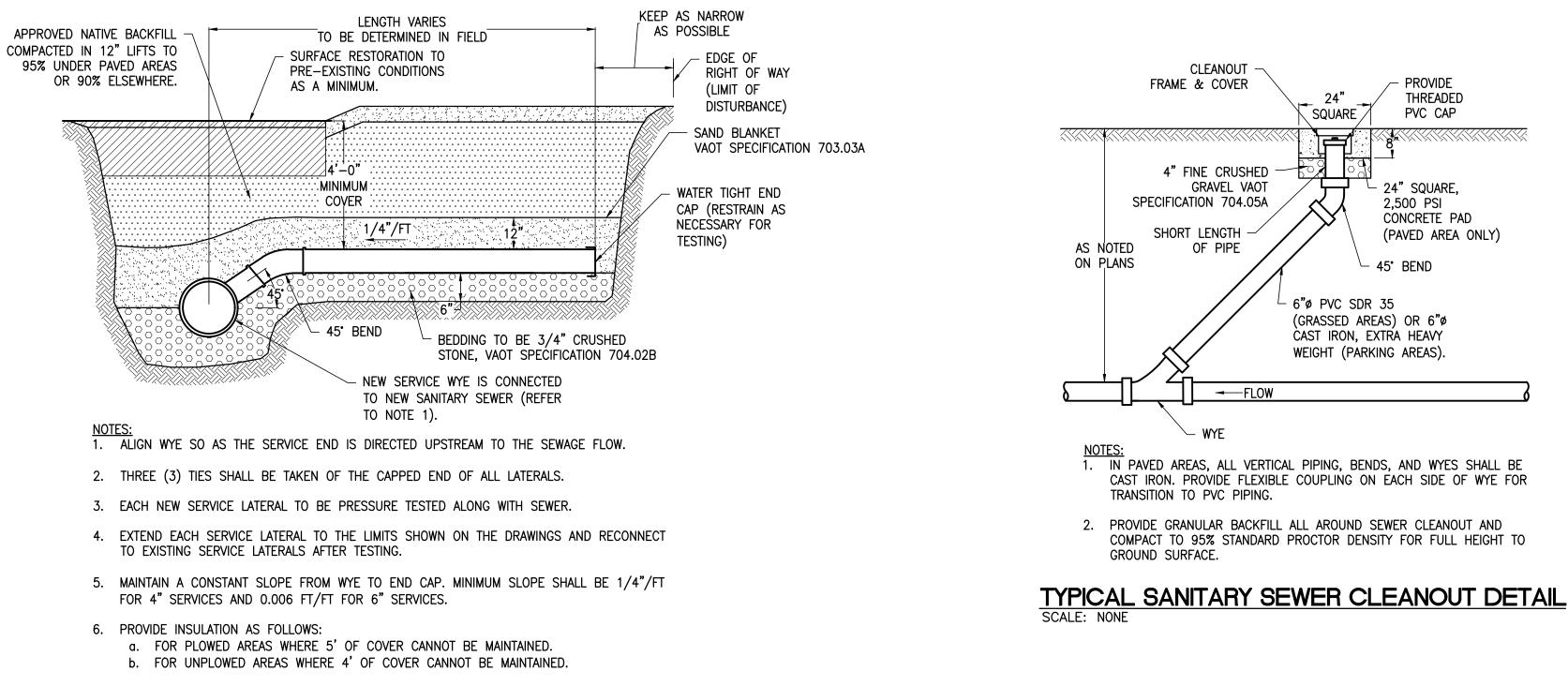
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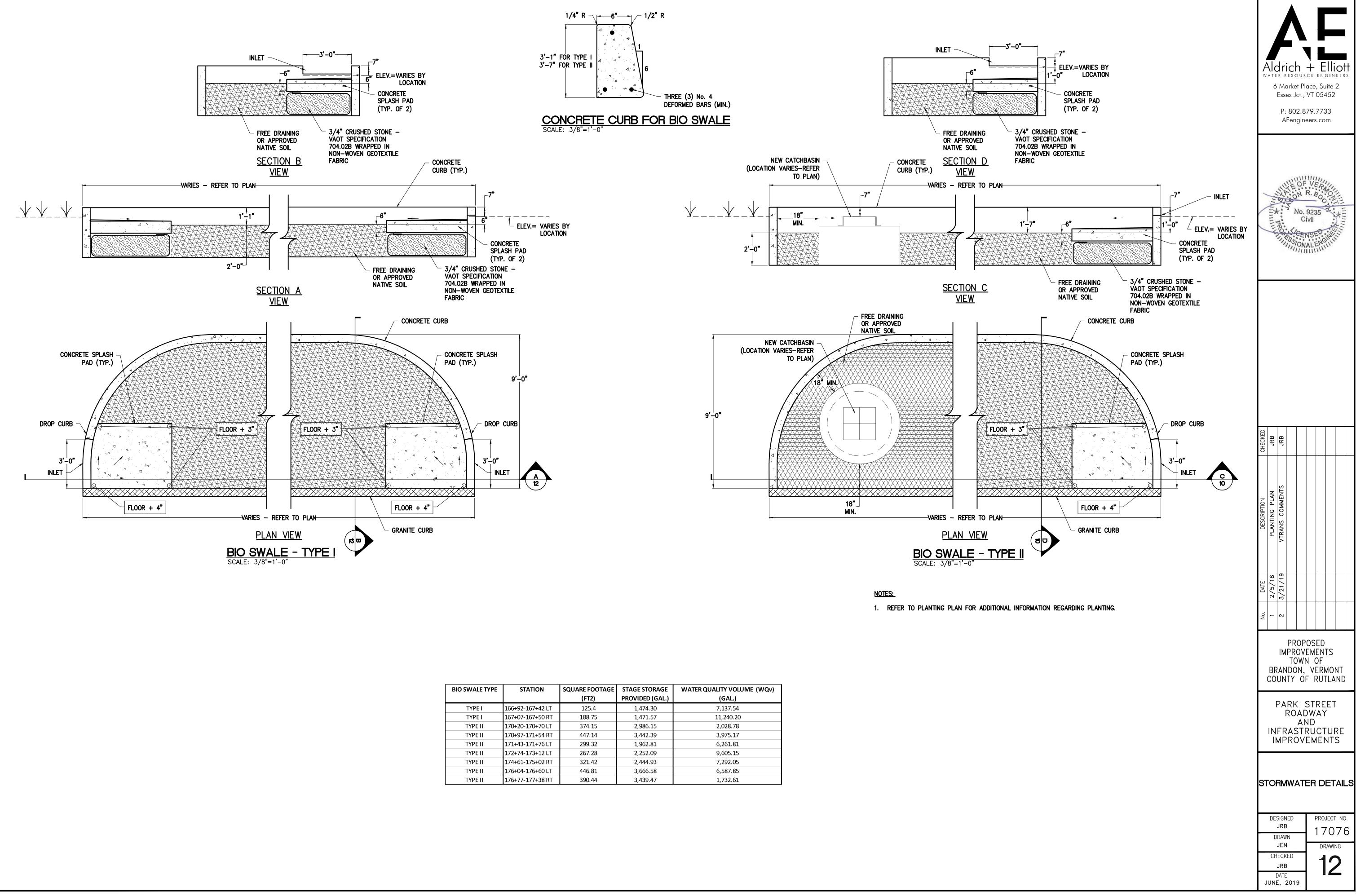




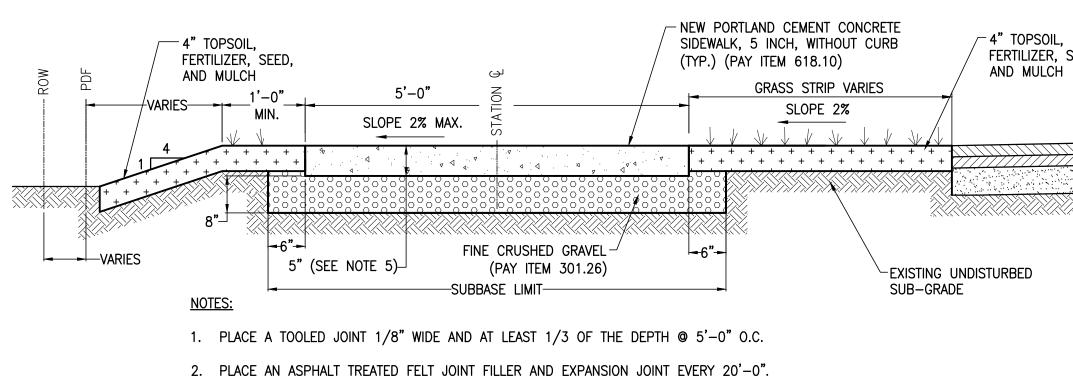


#### TYPICAL SANITARY SEWER SERVICE DETAIL SCALE: NONE

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LE TYPE	STATION	SQUARE FOOTAGE (FT2)	STAGE STORAGE PROVIDED (GAL.)	WATER QUALITY VOLUME (WQv) (GAL.)
El	166+92-167+42 LT	125.4	1,474.30	7,137.54
El	167+07-167+50 RT	188.75	1,471.57	11,240.20
II	170+20-170+70 LT	374.15	2,986.15	2,028.78
11	170+97-171+54 RT	447.14	3,442.39	3,975.17
II	171+43-171+76 LT	299.32	1,962.81	6,261.81
11	172+74-173+12 LT	267.28	2,252.09	9,605.15
П	174+61-175+02 RT	321.42	2,444.93	7,292.05
II	176+04-176+60 LT	446.81	3,666.58	6,587.85
II	176+77-177+38 RT	390.44	3,439.47	1,732.61



4. SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH VAOT STANDARDS, SECTION 618.

ິ**6" MIN**.5

1. REFER TO VTRANS STANDARD DETAIL C-10 FOR

**GRANITE CURB DETAIL** 

- 6"----

<del>⊱•⊹•</del>∹18" MIN.<del>•⊹\*</del>€€

ADDITIONAL INFORMATION

SCALE: NONE

PORTLAND CEMENT CONCRETE SIDEWALK WITHOUT CURB DETAIL

GRANITE CURB (PAY ITEM 616.21)

- 1/2" ROUND

OTHERS)

2" TYPE III BITUMINOUS

2-1/2" TYPE III BITUMINOUS

WEARING COURSE (BY

BASE COURSE

SET GRANITE CURB IN CONCRETE

BED. PAYMENT SHALL BE INCIDENTAL TO THE PAY ITEM FOR GRANITE CURB

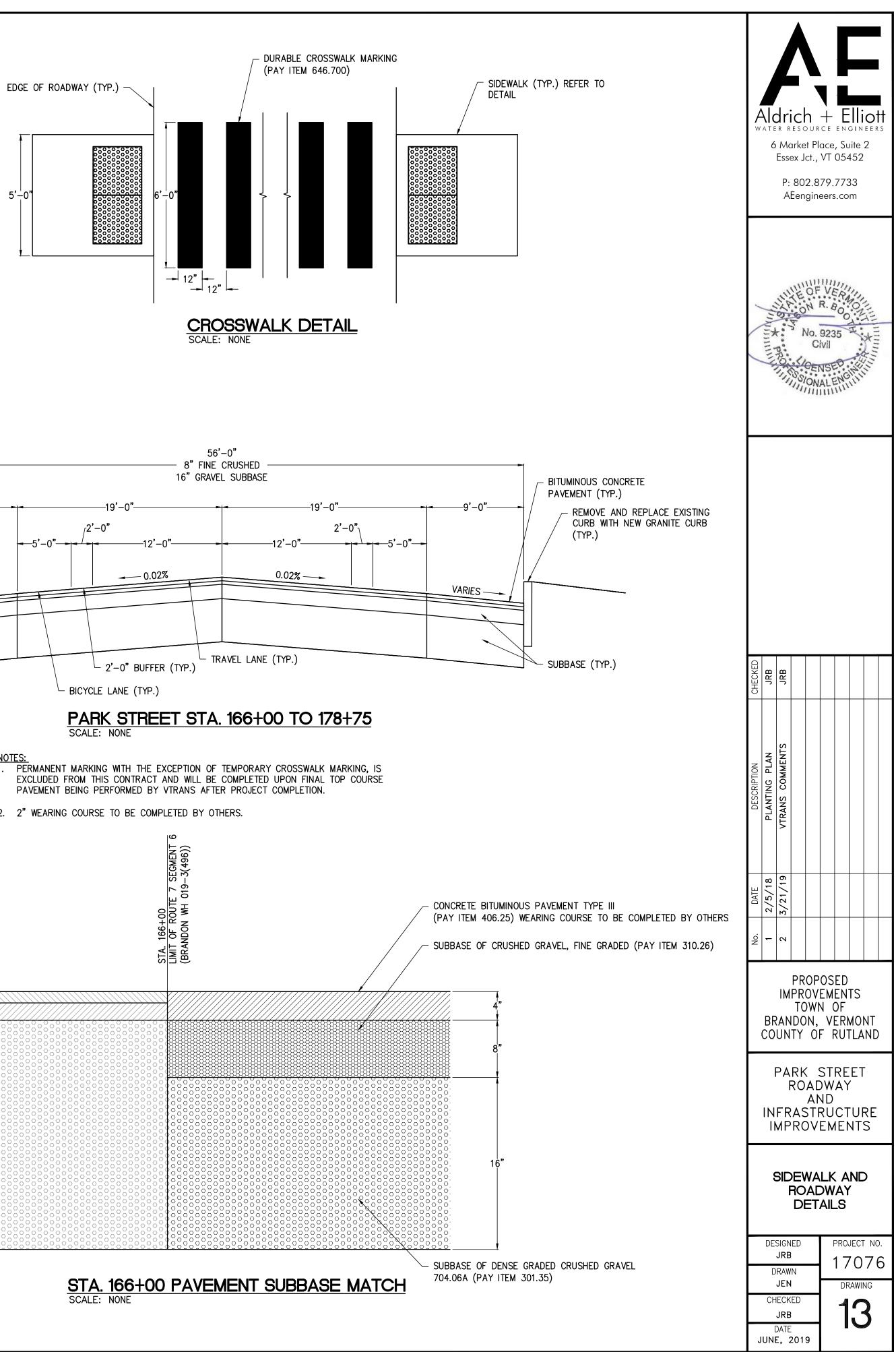
3. BROOM FINISH WITH SMOOTH TROWELED EDGES.

REPELLANT SILANE (PAY ITEM 514.10).

MIN

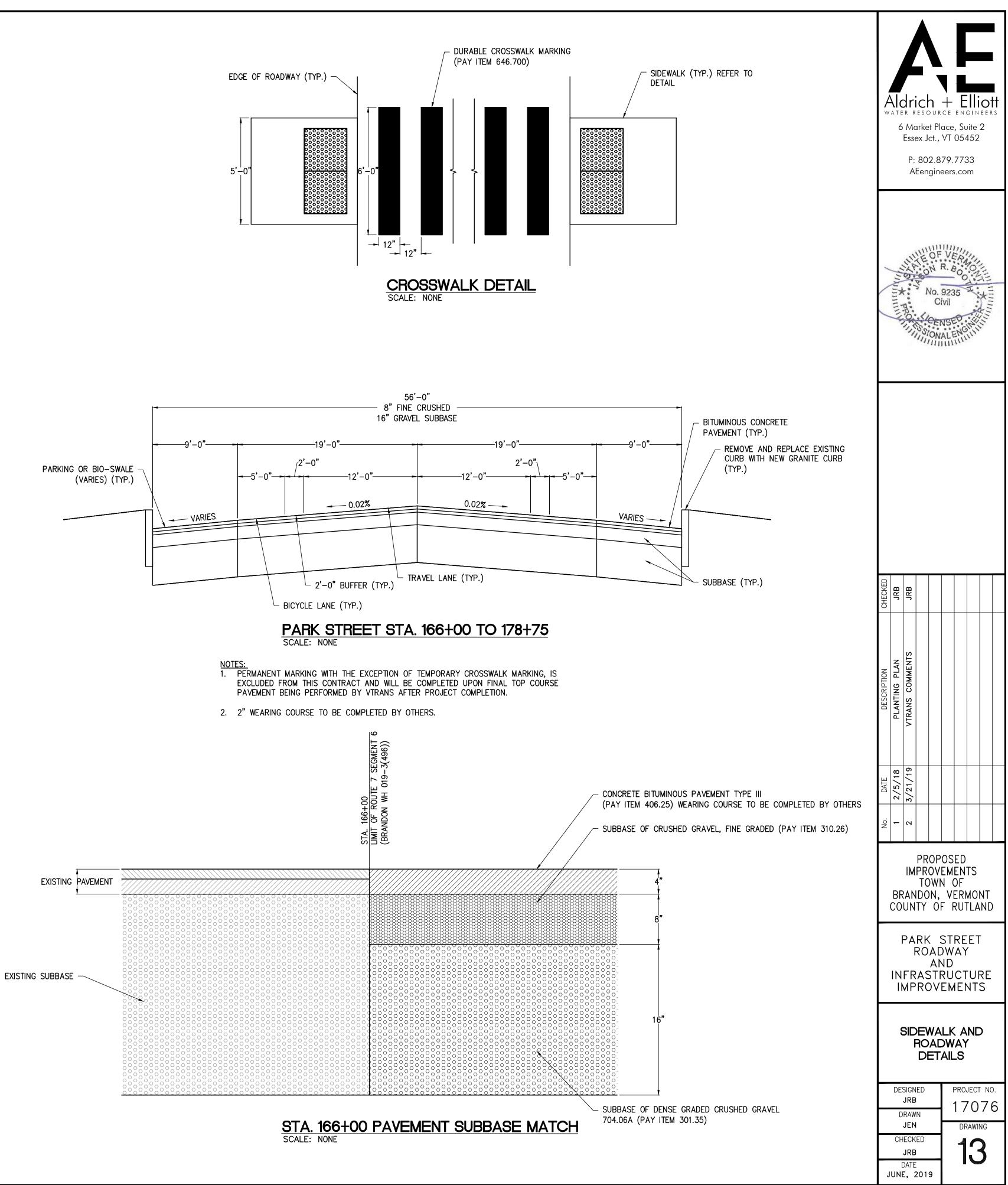
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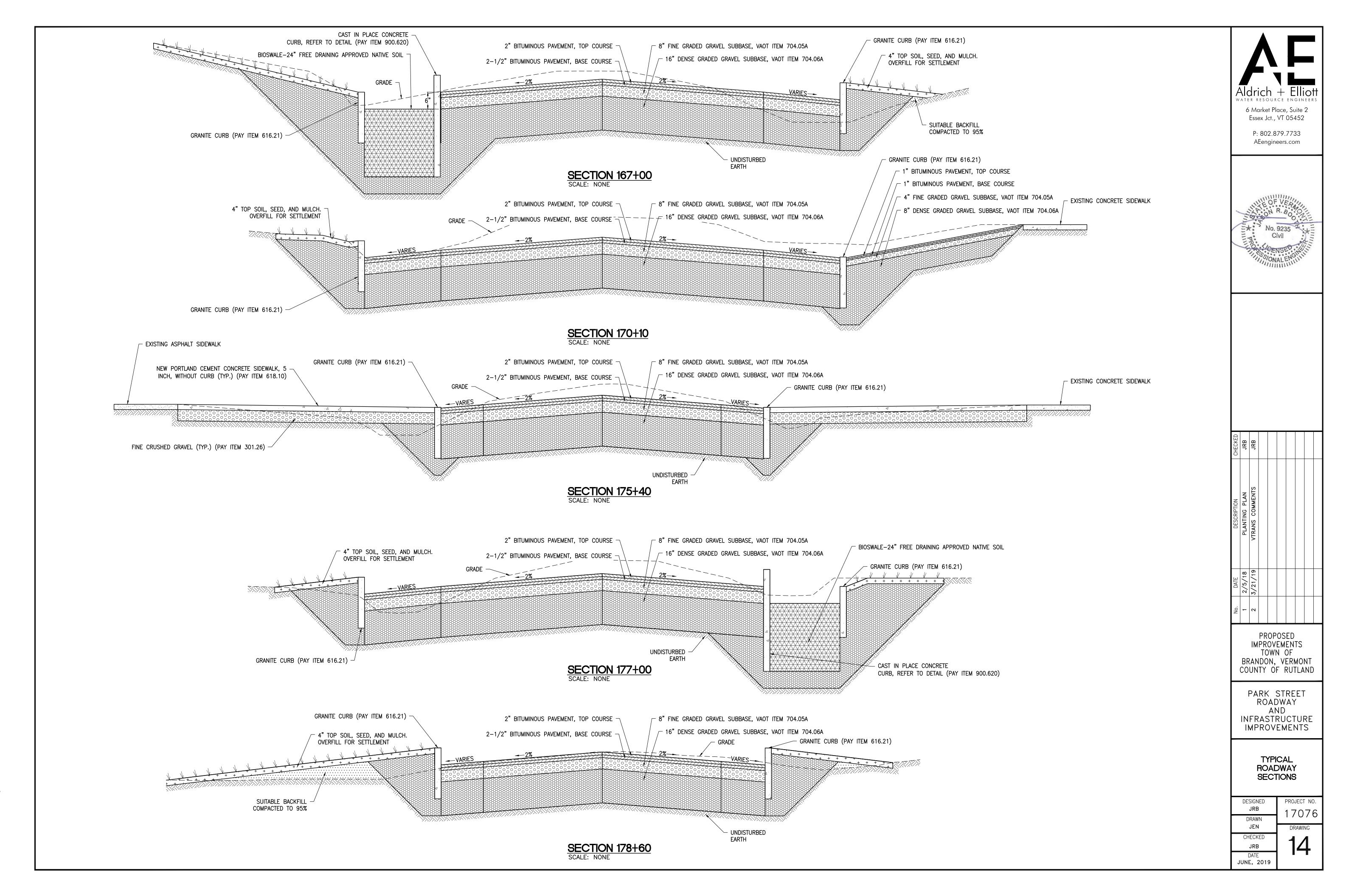
SCALE: NONE

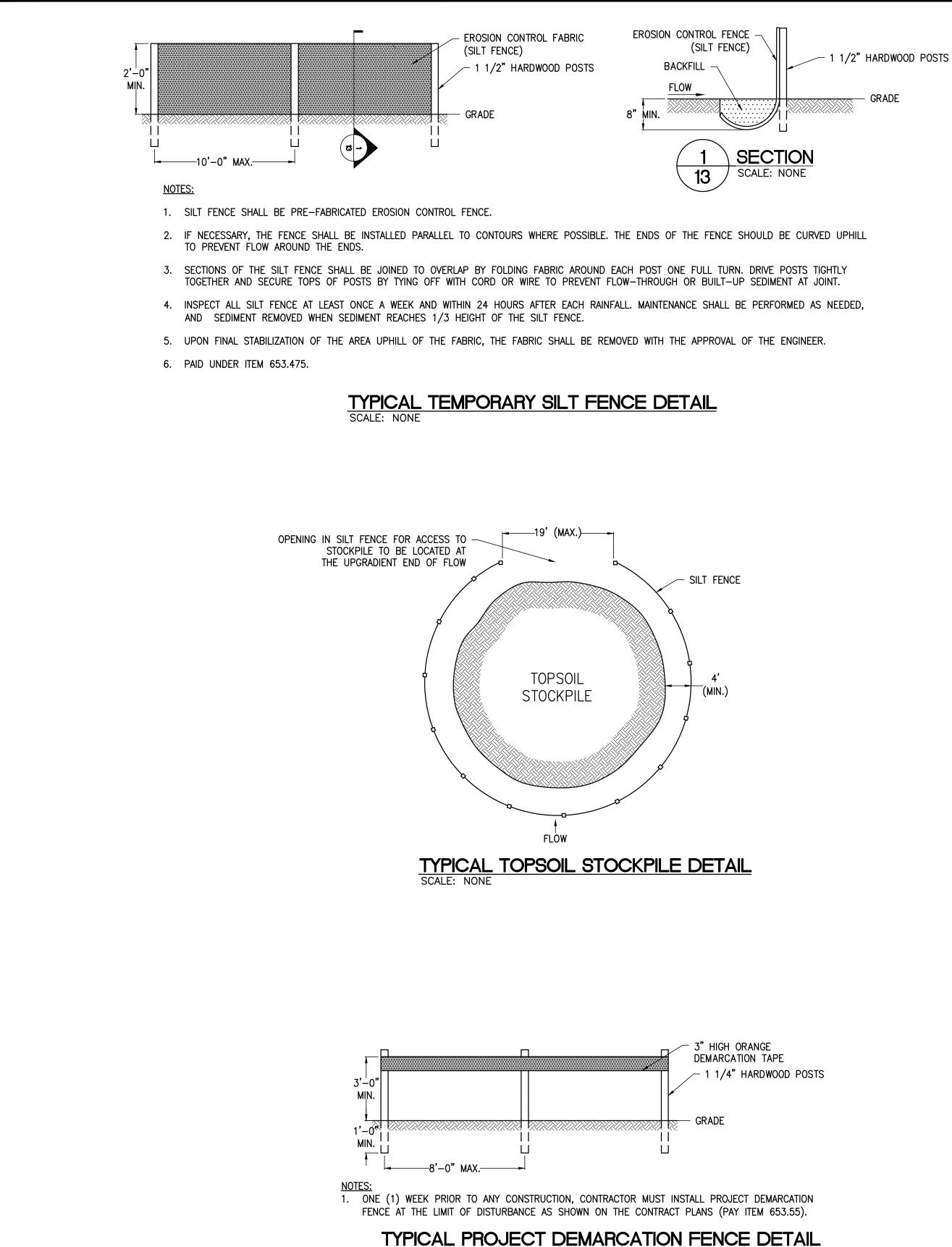


- ROADWAY OR DRIVEWAY FERTILIZER, SEED, 

5. AFTER INITIAL CURING PERIOD IS OVER (APPROXIMATELY 28 DAYS) ALL EXPOSED SURFACES SHALL RECEIVE TWO COATS OF WATER







SCALE: NONE

EXISTING CATCH BASIN GRATE FABRIC UNDER GRATE SECTION 2 SCALE: NONE 13

- UNDERGRATE FABRIC INLET PROTECTION SHALL ONLY BE USED WHERE SHOWN ON PLANS. IT SHOULD ONLY BE USED FOR EXISTING CATCH BASINS IN EXISTING PAVED AREAS FOR LINEAR PIPELINE PROJECTS WHERE AMOUNT OF SEDIMENT RUN OFF IS MINIMAL AND DURATION OF CONSTRUCTION IS SHORT.
- 2. LIFT THE GRATE AND INSTALL FILTER FABRIC OVER THE FRAME, AND THEN SET GRATE BACK IN PLACE.
- 3. INSPECT EACH INLET AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL. REPAIR AND REPLACEMENT OF INLET PROTECTION SHALL BE MADE AT TIME OF INSPECTION.
- 4. UPON STABILIZATION OF THE AREA UPSTREAM FROM THE INLET, THE PROTECTION SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.
- 5. INLET PROTECTION DEVICES SHALL BE USED ON BOTH EXISTING AND NEW CATCH BASINS. DEVICES ON NEW BASINS WILL REMAIN IN PLACE UNTIL BIOSWALES ARE PLACED. PAID UNDER ITEM 653.41.

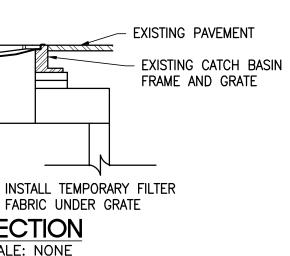
#### TYPICAL TEMPORARY INLET PROTECTION DETAIL SCALE: NONE

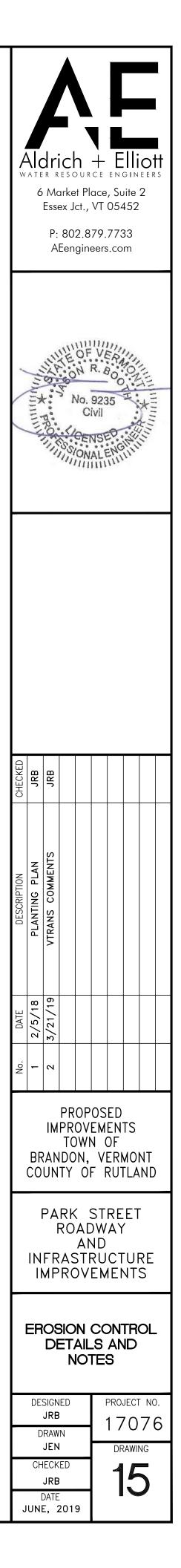
# EROSION PREVENTION SEDIMENT CONTROL PERMITTING NOTES:

- 1. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS APPROXIMATELY 148,000 SF. THIS TOTAL AREA IS MORE THAN ONE (1) ACRE, THEREFORE COVERAGE UNDER VERMONT GENERAL PERMIT 3-9020 FOR STORMWATER CONSTRUCTION SITES IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR BECOMING A CO-PERMITEE AND PREPARING AN EROSION PREVENTION SEDIMENT CONTROL PLAN (AS NECESSARY) AND ANY OTHER SUPPORTING INFORMATION REQUIRED TO OBTAIN COVERAGE UNDER THE PERMIT. THE CONTRACTOR AND TOWN SHALL BE CO-PERMITTEES ON THE PERMIT.
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE PERMIT ACQUISITION, IMPLEMENTATION, AND MAINTENANCE OF PLAN, AND ALL NECESSARY MONITORING, REPORTING, RECORD KEEPING, ETC. INCLUSIVE IN THE PERMIT REQUIREMENTS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR OBTAINING THE PERMIT COVERAGE OR ANY ADDITIONAL EROSION PROTECTION SEDIMENT CONTROL MEASURES OR REQUIREMENTS SPECIFICALLY AS A RESULT OF THE NEED TO OBTAIN PERMIT COVERAGE. ALL EROSION CONTROL WORK AND IMPLEMENTATION SHALL BE PAID FOR UNDER ITEM 653.01

### EROSION PREVENTION SEDIMENT CONTROL NOTES:

- 1. EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO PERFORMING ANY EARTHWORK DOWNSTREAM OF THE DISTURBED AREA AND AS DIRECTED BY THE RESIDENT ENGINEER. THE MEASURES SHALL BE MAINTAINED UNTIL THE UPSTREAM DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES DETERMINED NECESSARY IN THE FIELD.
- 2. SILT FENCE SHALL BE INSTALLED, AS SHOWN ON THE CONTRACT DRAWINGS PRIOR TO ANY EARTHWORK DOWNSTREAM OF THE DISTURBED AREA AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. THE SILT FENCE SHALL BE MAINTAINED AND CLEANED UNTIL THE UPSTREAM DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. WHERE POSSIBLE NATURAL DRAINAGE WAYS SHALL BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
- 3. PROPER EROSION CONTROLS SHALL BE PROVIDED AROUND STOCKPILED EXCAVATED MATERIALS. THESE CONTROLS MAY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING METHODS OF EROSION PREVENTION AND SEDIMENT CONTROL: PERIMETER SILT FENCE; INTERCEPTOR DRAINAGE DITCHES; VELOCITY REDUCTION DAMS IN DRAINAGE DITCHES; TEMPORARY BANK PROTECTION SUCH AS RIPRAP, MATTING, OR ARTIFICIAL COVERING; STONE CHECK DAM CONTROL SYSTEMS; SPECIAL STOCKPILING METHODS; AND WATER BARS.
- 4. THE CONTRACTOR SHALL PROVIDE A MECHANICAL SWEEPER AND SHALL SWEEP CLEAN THE ROADS IN THE CONSTRUCTION AREAS AS REQUIRED TO REMOVE ACCUMULATED SEDIMENT AND PREVENT SEDIMENT RUNOFF INTO RECEIVING WATERS AND AS DIRECTED BY THE CONSTRUCTION ENGINEER (PAY ITEM 653.01).
- 5. TEMPORARY EROSION CONTROL MEASURES SHALL BE UTILIZED BY THE CONTRACTOR AS REQUIRED TO PREVENT ANY SEDIMENTATION FROM RUNNING INTO RECEIVING WATERS. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE ANY IMPACT OF THE ON-SITE SURFACE RUNOFF ON THE QUALITY OF THE RECEIVING WATERS.
- 6. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE DISTURBED AT ANY ONE TIME DURING CONSTRUCTION. WHEN LAND IS DISTURBED DURING CONSTRUCTION, THE DISTURBANCE SHALL BE KEPT TO THE SHORTEST PRACTICAL DURATION AS APPROVED BY THE CONSTRUCTION ENGINEER. LAND SHALL NOT BE LEFT DISTURBED DURING THE WINTER MONTHS AND OVERWINTER STABILIZATION MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15TH.
- 7. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE TOP SOILED, LIMED, FERTILIZED, SEEDED, AND MULCHED WITHIN 48 HOURS OF FINAL GRADING. A MINIMUM OF 3 INCHES OF TOP SOIL SHALL BE PLACED.
- 8. NO DISTURBED AREAS SHALL BE LEFT UNSEEDED AND UNMULCHED FOR MORE THAN SEVEN (7) DAYS. DISTURBED AREAS WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR DRIED, AND FREE FROM WEED, SEEDS, AND ANY COARSE MATERIAL, CONTRACTOR MAY ALSO USE EROSION MATTING OR OTHER APPROVED METHODS OF TEMPORARY COVER.
- 9. ALL EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE INSPECTED BY OR UNDER THE DIRECTION OF THE ON-SITE COORDINATOR AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE.
- 10. AFTER ALL UPSTREAM DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER, THE DOWNSTREAM TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE ACCUMULATED SEDIMENT PROPERLY DISPOSED OF. THE AREA DISTURBED BY THE REMOVAL OF TEMPORARY MEASURES SHALL BE PREPARED, SEEDED, AND MULCHED.





#### TEMPORARY TRAFFIC CONTROL NOTES:

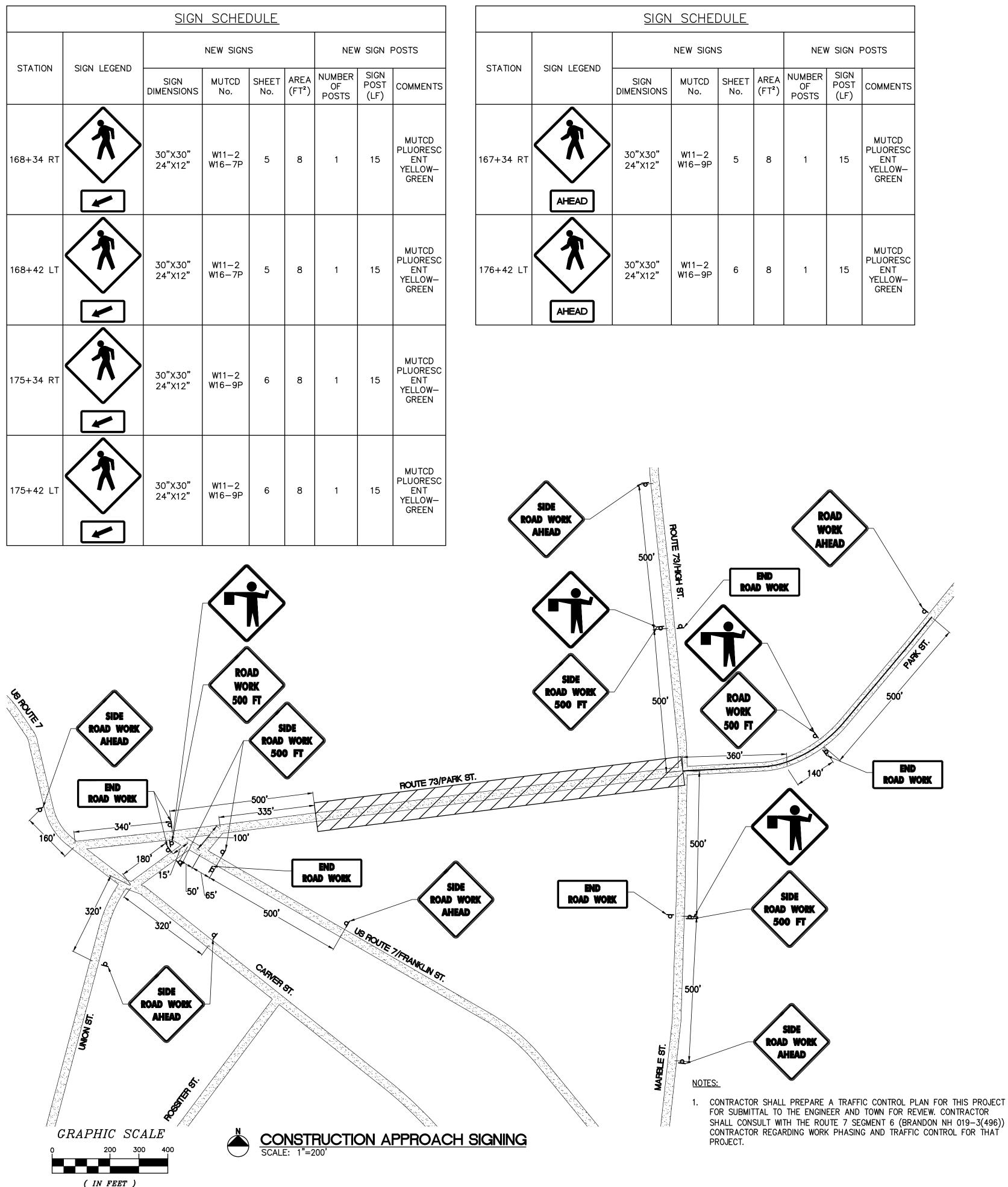
- 1. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE VTRANS STANDARD DRAWINGS AND THE STANDARDS PRESCRIBED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. ALL TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO THE BEGINNING OF WORK. ALL APPROACH SIGNAGE MUST REMAIN IN PLACE FOR THE ENTIRE DURATION OF THE PROJECT.
- 3. A MINIMUM OF ONE-WAY TRAFFIC CONTROL MUST BE MAINTAINED AT ALL TIMES DURING ACTIVE CONSTRUCTION. TRAFFIC MUST BE RESTORED TO TWO LANES AT THE END OF EACH WORK DAY. THIS INCLUDES ALL SIDE ROADS AND DRIVES.
- 4. FLAG PERSONS SHALL BE TRAINED IN TRAFFIC CONTROL AND SHALL HAVE SUCCESSFULLY COMPLETED AN APPROVED FLAGGER TRAINING COURSE AND RECEIVED THE APPLICABLE CERTIFICATION. TRAINED FLAGGERS SHALL WEAR SAFETY APPAREL MEETING REQUIREMENTS OF ISEA "AMERICAN NATIONAL STANDARD OF HIGH VISIBILITY APPAREL" AND LABELED AS MEETING ANSI 107-2004 STANDARD PERFORMANCE FOR CLASS 2 RISK EXPOSURE. INDIVIDUALS ENGAGED IN TRAFFIC CONTROL SHALL WEAR THE HIGH VISIBILITY VEST WITH "TRAFFIC CONTROL" VISIBLE, WITHOUT EXCEPTION SO THAT THEY ARE READILY DISTINGUISHED BY THE TRAVELING PUBLIC AS A PERSON IN CHARGE OF DIRECTING TRAFFIC.
- 5. PAYMENT FOR ALL ITEMS INCIDENTAL TO TEMPORARY TRAFFIC CONTROL SHALL BE PAID FOR UNDER TRAFFIC CONTROL (ITEM 641.10).
- 6. THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE VEHICLE ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.

TEMPORARY TRAFFIC CONTROL PLAN TO INCLUDE:

- PROJECT OVERVIEW
- GENERAL TRAFFIC CONTROL NOTES
- SPECIAL PROVISIONS
- UTILIZING FLAGGERS AND UNIFORMED TRAFFIC OFFICERS (UTO) WITHIN THE WORK ZONE
- MISCELLANEOUS INFORMATION BICYCLE ACCOMMODATIONS, EMERGENCY VEHICLES, SCHOOL BUS, POSTAL DELIVERIES, TRASH PICK-UP, PCMS MESSAGES EXAMPLES. EMERGENCY & KEY PERSONNEL CONTACT INFO
- CONSTRUCTION PHASING & SEQUENCING
- A NARRATIVE DESCRIPTION OF THE TTC FOR EACH PHASE (INCLUDING PEDESTRIAN ACCOMMODATIONS WHERE APPLICABLE)
- A LAYOUT OF EACH PHASE OF CONSTRUCTION SHOWING:
- EXISTING LANE CONFIGURATIONS,
- EXISTING TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, AND PAVEMENT MARKINGS)
- EXISTING SITE-SPECIFIC FEATURES: DRIVES, RAMPS, AND HIGHWAY INTERSECTIONS
- LOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES
- FLAGGER AND UTO LOCATIONS
- ALL PERTINENT DIMENSIONS SHALL BE LABELLED
- TAPER LENGTHS, TEMPORARY LANE WIDTHS, AND DISTANCE FROM EXISTING TRAFFIC CONTROL DEVICES
- WORK ZONE LIMITATIONS SPEED REDUCTION, SURFACE CONDITIONS, DELAY TIMES, TEMPORARY PAVEMENT MARKINGS
- 7. IF ANY SERVICES (EG. POSTAL DELIVERIES, TRASH SERVICES, ETC.) ARE INTERUPTED DUE TO CONTRACTOR ACTIVITIES, THE CONTRACTOR SHALL NOTIFY IMPACTED PROVIDER AS SOON AS POSSIBLE.

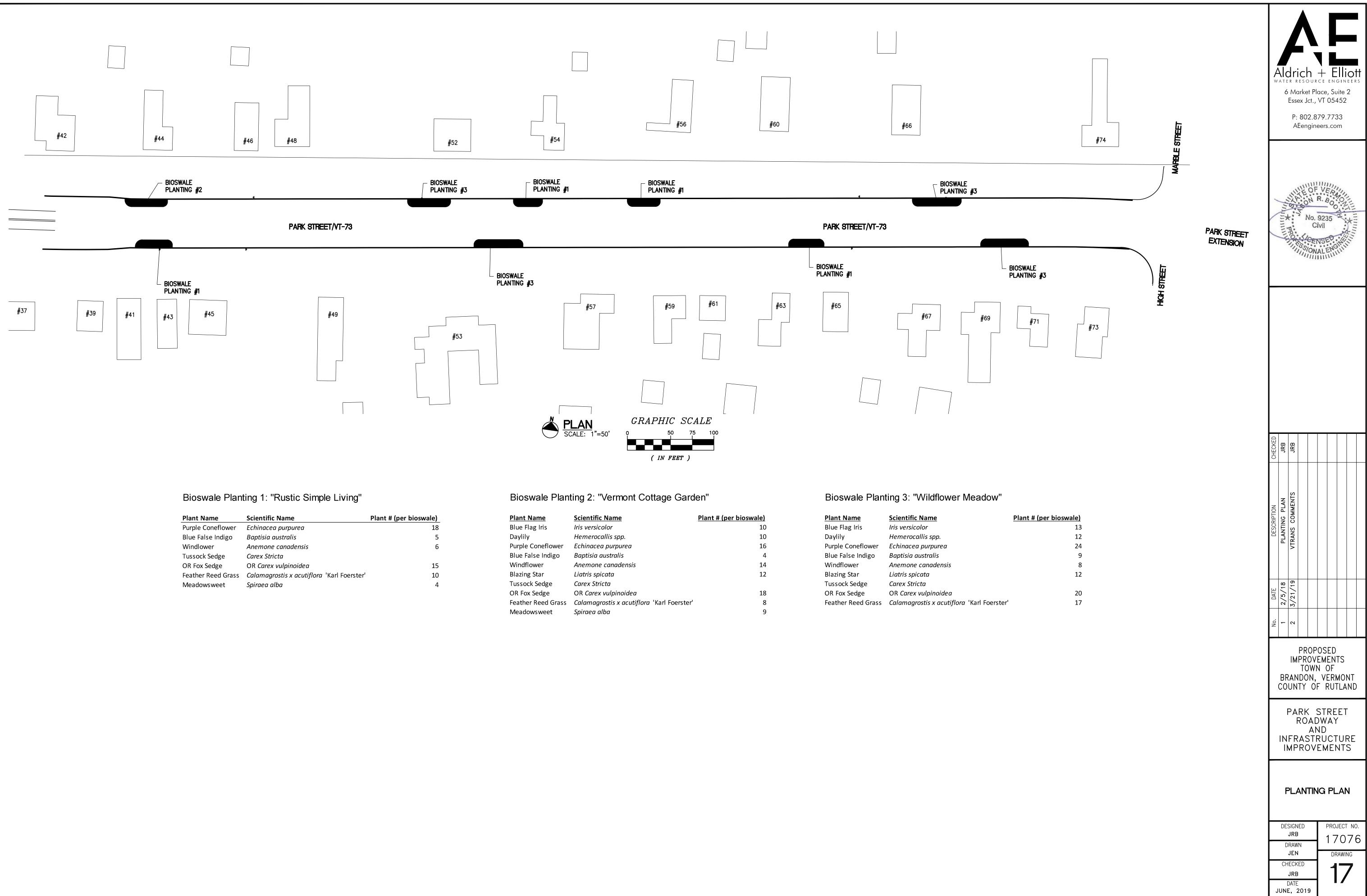
PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE RESIDENT ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.
- 2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.
- 3. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
- 4. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
- 5. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
- 6. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
- 7. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
- INDIVIDUAL CHANNELIZING DEVICES, TAPE, OR ROPE USED TO CONNECT INDIVIDUAL DEVICES AND OTHER DISCONTINUOUS BARRIERS AND DEVICES, PAVEMENT MARKINGS ARE NOT DETECTABLE BY PERSONS WITH VISUAL DISABILITIES. THESE MEASURES DO NOT PROVIDE ACCEPTABLE PATH GUIDANCE ON TEMPORARY OR RE-ALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZING DEVICES SHALL INCLUDE A CONTINUOUSLY DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.
- 9. CHANNELIZING DEVICES ON BOTH SIDES OF THE TPAR SHALL INCLUDE A CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE BOTTOM RAIL SURFACE NO HIGHER THAN 2 INCHES ABOVE THE GROUND.
- 10. WHEN SCHOOL IS IN SESSION, SCHOOL BUS STOP ACCOMMODATIONS ARE REQUIRED. LOCATIONS SHALL BE COORDINATED WITH THE LOCAL SCHOOL TRANSPORTATION COORDINATOR. ADDITIONAL FLAGGERS WILL BE STATIONED AT THESE LOCATIONS DURING TYPICAL MORNING PICK-UP AND AFTERNOON DROP-OFF TIME PERIODS WHILE WORK IS PERFORMING IN THESE AREAS.
- 11. ACCOMMODATIONS SHOULD BE TAKEN TO ENSURE THAT OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, TRAFFIC CONTROL DEVICES, ETC. DO NOT ENCROACH INTO THE BICYCLE PATH OF TRAVEL. IT IS IMPORTANT THAT CYCLIST'S ROUTES ARE FREE OF RUTS, SAND AND MUD TO PREVENT CYCLIST CRASHES.
- 12. COMMUNICATION AND ACCOMMODATIONS SHOULD BE PROVIDED BY CONTRACTOR FOR POSTAL DELIVERY, PAPER ROUTES, TRASH SERVICES AND ANY OTHER DELIVERY SERVICES IF INTERRUPTED BY THE CONTRACT.
- 13. ALL ACCESS SHALL BE MAINTAINED FOR EMERGENCY VEHICLES.
- 14. PAYMENT FOR ALL ITEMS INCIDENTAL TO THE PEDESTRIAN TEMPORARY TRAFFIC CONTROL SHALL BE PAID FOR UNDER TRAFFIC CONTROL (ITEM 641.10).



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SIGNS			NEW SIGN POSTS			
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-2 -9P	6	8	1	15	MUTCD PLUORESC ENT YELLOW– GREEN	

	Aldrich + Elliott Aldrich + Elliott & Market Place, Suite 2 Essex Jct., VT 05452 P: 802.879.7733 AEengineers.com									
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Plant Name	Scientific Name	Plant # (per bioswale)
Purple Coneflower	Echinacea purpurea	18
Blue False Indigo	Baptisia australis	5
Windlower	Anemone canadensis	6
Tussock Sedge	Carex Stricta	
OR Fox Sedge	OR Carex vulpinoidea	15
Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	10
Meadowsweet	Spiraea alba	4

AΜ

Plant Name	Scientific Name	<u>Plant # (per bioswale)</u>
Blue Flag Iris	Iris versicolor	10
Daylily	Hemerocallis spp.	10
Purple Coneflower	Echinacea purpurea	16
Blue False Indigo	Baptisia australis	4
Windflower	Anemone canadensis	14
Blazing Star	Liatris spicata	12
Tussock Sedge	Carex Stricta	
OR Fox Sedge	OR Carex vulpinoidea	18
Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	8
Meadowsweet	Spiraea alba	9

<u>Plant Name</u>	Scientific Name	P
Blue Flag Iris	Iris versicolor	
Daylily	Hemerocallis spp.	
Purple Coneflower	Echinacea purpurea	
Blue False Indigo	Baptisia australis	
Windflower	Anemone canadensis	
Blazing Star	Liatris spicata	
Tussock Sedge	Carex Stricta	
OR Fox Sedge	OR Carex vulpinoidea	
Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	