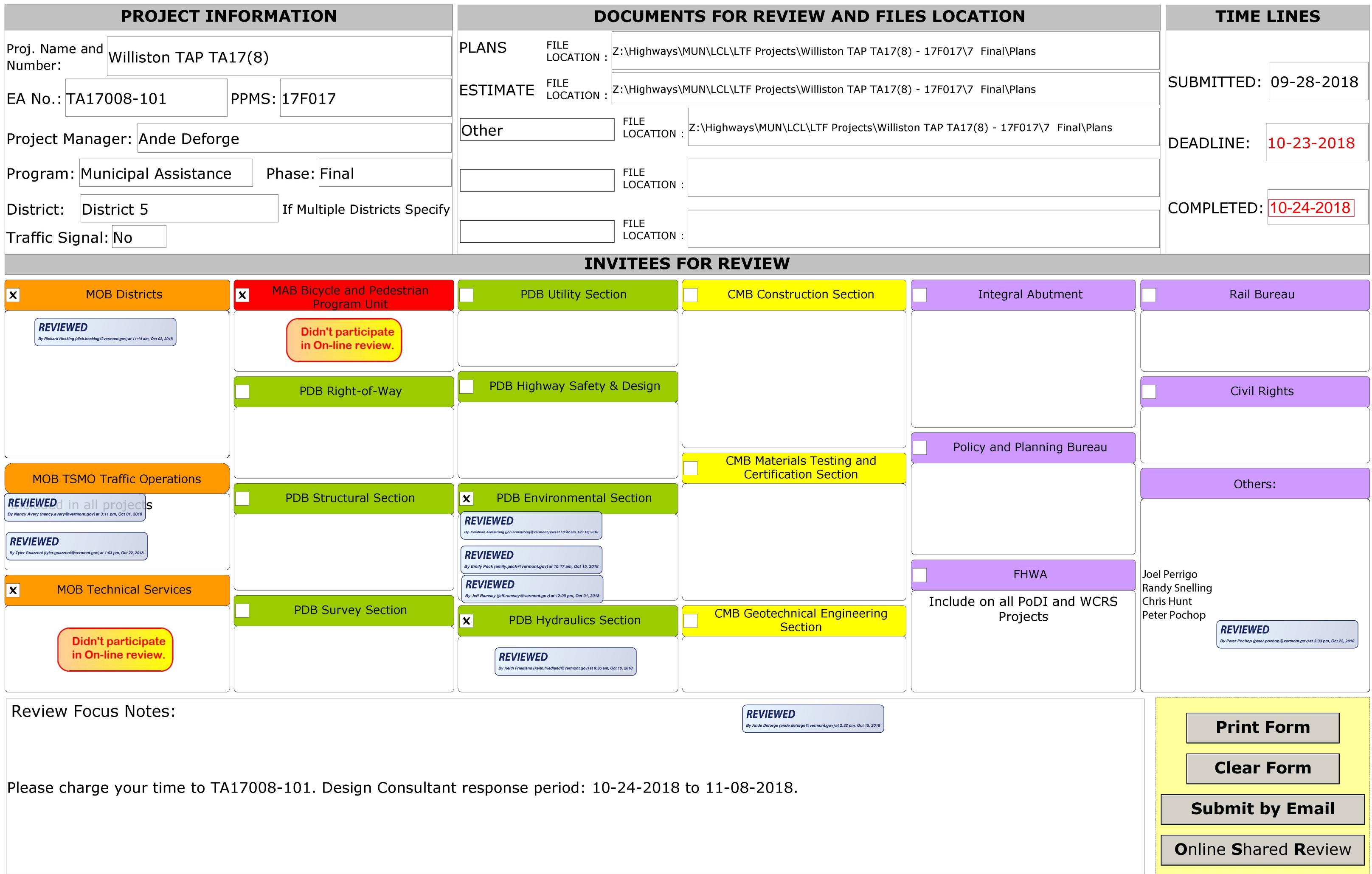
Vurails Vermont Agency of Transportation	
PROJECT INFORMATION	
Proj. Name and Number:	PLANS
EA No.: TA17008-101 PPMS: 17F017	ESTIM
Project Manager: Ande Deforge	Other
Program: Municipal Assistance Phase: Final	
District: District 5 If Multiple Districts Specify	
Traffic Signal: No	



REQUEST FOR PROJECT REVIEW

RFPR version 4.0.a.

Ν	TIME	LINES
Plans		
Plans	SUBMITTED:	09-28-2018
F017\7 Final\Plans	DEADLINE:	10-23-2018
	COMPLETED:	10-24-2018

INDEX OF SHEETS

3-4

7-10

TITLE SHEET CONVENTIONAL SYMBOLOGY LEGEND SHEET DETAILS SURVEY TIE SHEET QUANTITY SHEET GENERAL PLANS

VTRANS	STANDARD	DRAWINGS
B-71 D-13 D-15 T-1 T-2 T-10 T-28 T-29 T-29 T-30 T-31 T-35 T-35 T-36 T-45 T-56	7/8, 6/1, 1/3, 6/1, 4/25 8/6, 8/6, 8/6, 8/6, 8/6, 8/6, 8/6, 8/6,	/2005 /1994 /2000 /1994 5/2016 5/2016 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012 /2012
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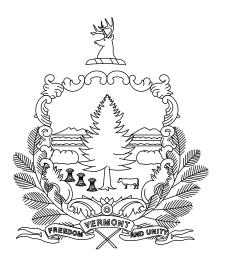
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 3 SURVEYED BY : VSE SURVEYED DATE : 12/07/2016 DATUM VERTICAL NAVD 88 FT HORIZONTAL NAD 83 (2011) sFT

10+00 11+00 12+00 9+00 13+00 14+00

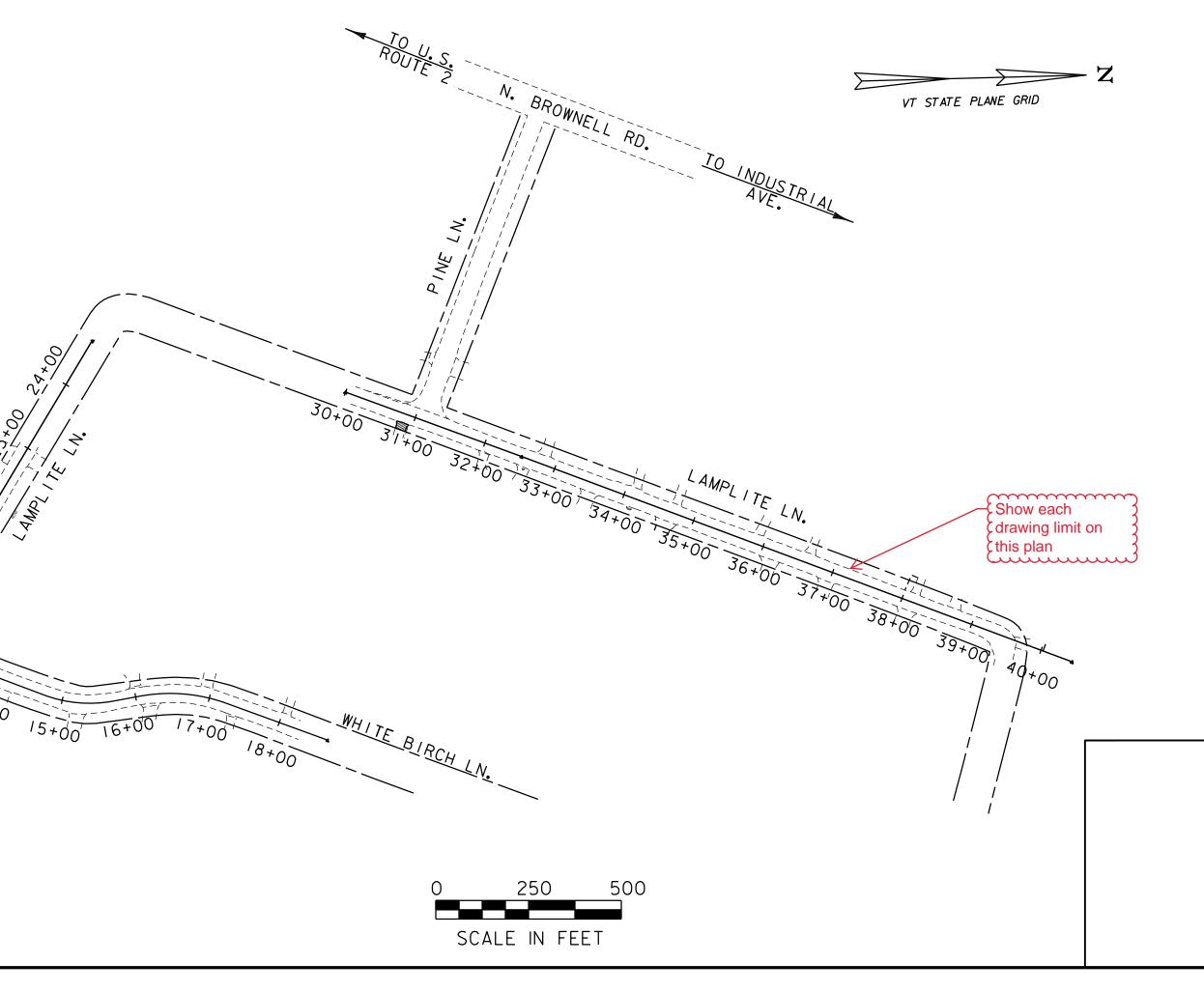
STATE OF VERMONT AGENCY OF TRANSPORTATION

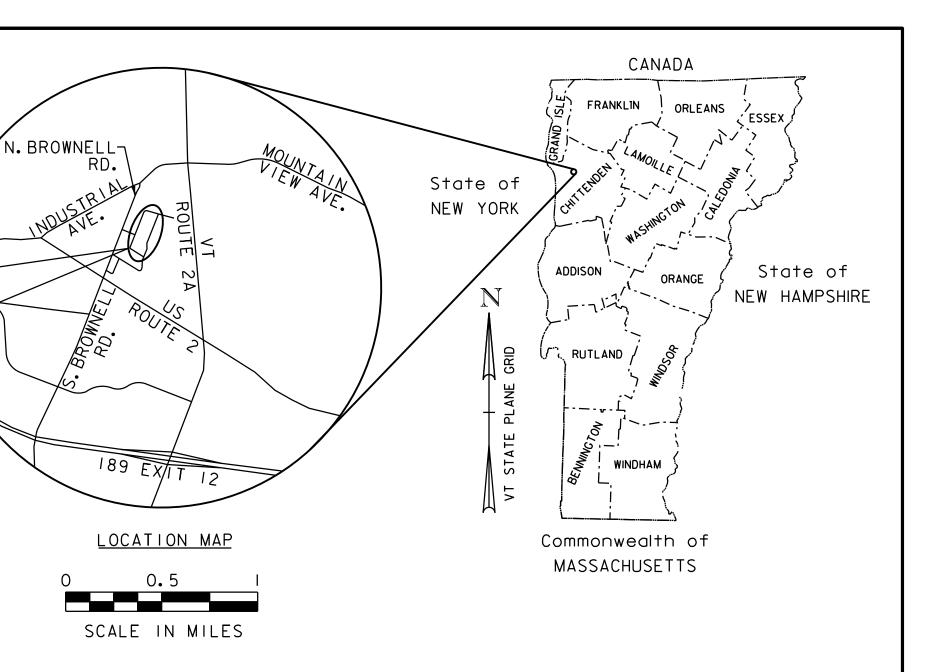
PROJECT LOCATION



PROPOSED IMPROVEMENT TOWN OF WILLISTON COUNTY OF CHITTENDEN LAMPLITE ACRES DRAINAGE UPDATES

THIS PROJECT IS LOCATED IN THE LAMPLITE ACRES DEVELOPMENT OFF OF NORTH BROWNELL ROAD IN WILLISTON THIS PROJECT INCLUDES INSTALLATION OF ABOVE AND BELOW GRADE DRAINAGE UPGRADES, UTILITY COORDINATION AND MINOR REGRADING.





If this project is advertised after January 1, 2018 it must comply with VTrans 2018 **Specifications**





DIRECTOR OF MUNICIPAL ASSISTANCE BUREAU

Stantec Consulting Services Inc 55 Green Mountain Drive South Burlington VT U.S.A. 05403 Phone: (802) 864-0223 Fax: (802) 864-0165 www.stantec.com

PROJECT MANAGER : ANDE DEFORGE PROJECT NAME : PROJECT NUMBER : TAP TAI7 (8) SHEET I OF IO

APPROVED

LAMPLITE ACRES

SHEETS

_ DATE

<u>GENERAL</u>	NFORMATION		COMMO	N TOPOG	RAPHIC POINT SYMBOLS
SYMBOLOGY	LEGEND NOTE		POINT	CODE	DESCRIPTION
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	CONVENTIONAL SYMBOLOGY		·	BM	BENCHMARK
	EXISTING & PROPOSED FEA			BND	BOUND
	, IN COMBINATION WITH PRO			СВ	CATCH BASIN
	ON PROJECT PLAN SHEETS		ģ.	СОМВ	COMBINATION POLE
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UTILITY SYMBOLOGY

UNDERGROUND UTILITIES			
— UGU — · · — · · –	UTILITY (GENERIC-UNKNOWN)		
— UT — · · — · · –	TELEPHONE		
— UE — · · — · · –	ELECTRIC		
— UC — · ·	CABLE (TV)		
— UEC — · · — · · –	ELECTRIC+CABLE		
— UET — ·· — · -	ELECTRIC+TELEPHONE		
— UCT — · ·	CABLE+TELEPHONE		
— UECT — · · — · · –	ELECTRIC+CABLE+TELEP.		
— G — · · – · · –	GAS LINE		
— <i>W</i> — · · — · · –	WATER LINE		
— s — · · – · · -	SANITARY SEWER (SEPTIC)		
ABOVE GROUND UTILITIES (AERIAL) — AGU — ·· – · · – UTILITY (GENERIC-UNKNOWN) — T — ·· – · · – TELEPHONE			
	ELECTRIC		
	CABLE (TV)		
	ELECTRIC+CABLE		
	ELECTRIC+TELEPHONE		
— AER E&T — · · — ·			
	CABLE+TELEPHONE		
	ELECTRIC+CABLE+TELEP.		
	UTILITY POLE GUY WIRE		
PROJECT CONSTRUCTION SYMBOLOGY			

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT	DESIGN	&	LAYOUT	SYMBOLOGY
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ZONE

- PLAN LAYOUT MATCHLINE

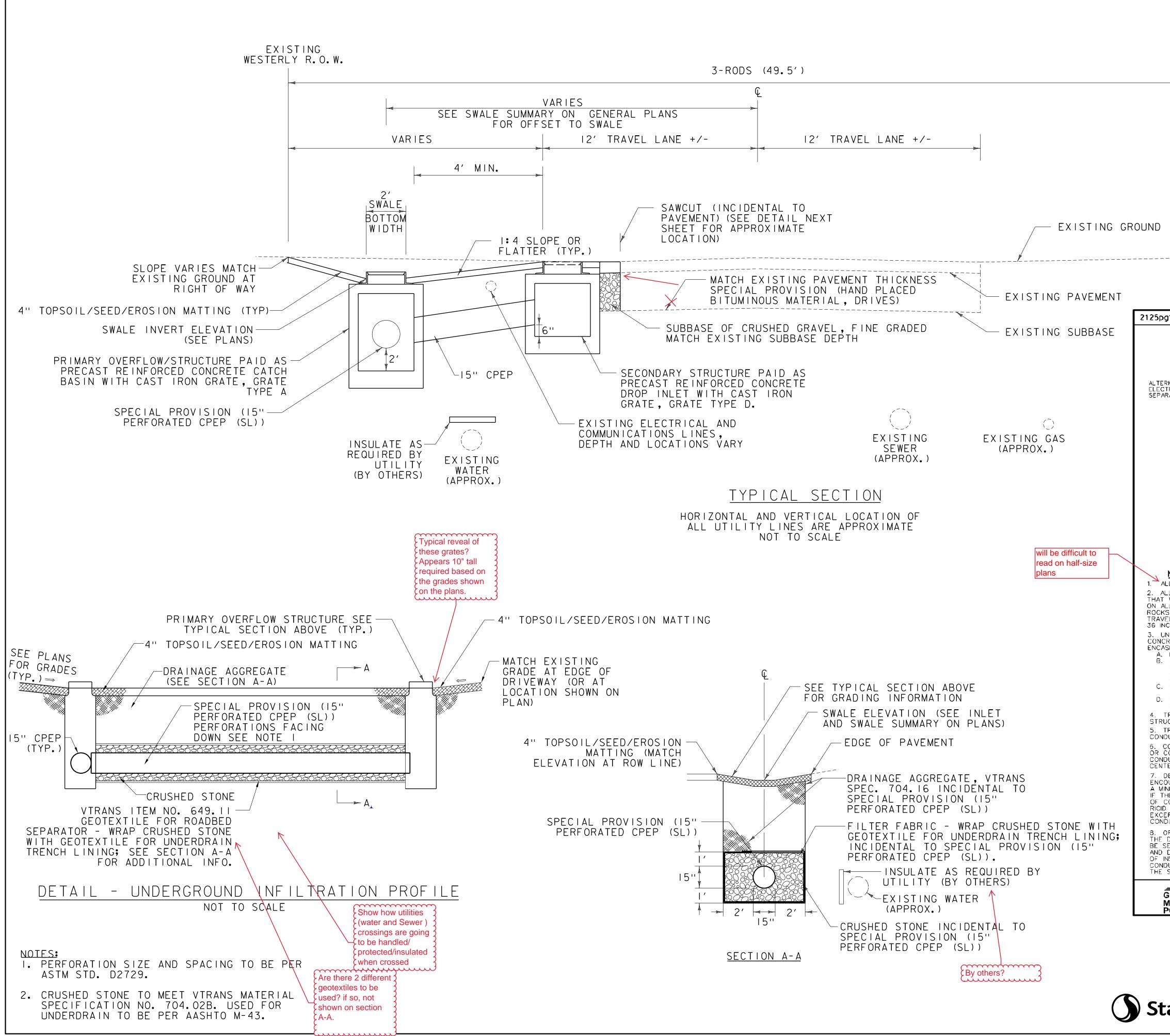
PROJECT CONSTRUCTION FEATURES

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=======================================	CULVERT PROPOSED
	STRUCTURE SUBSURFACE
PDF PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
*****	TREE PROTECTION ZONE (TPZ)
///////////////////////////////////////	STRIPING LINE REMOVAL
$\sim \sim \sim \sim \sim \sim$	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES	
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COUNTY LINE	COUNTY BOUNDARY LINE
STATE LINE	STATE BOUNDARY LINE
— <i>///</i> — — — <i>///</i>	PROPOSED STATE R.O.W. (LIMITED ACCESS)
	PROPOSED STATE R.O.W.
	STATE ROW (LIMITED ACCESS)
	STATE ROW
<u> </u>	TOWN ROW
<u> </u>	PERMANENT EASEMENT LINE (P)
	TEMPORARY EASEMENT LINE (T)
+ + +	SURVEY LINE
$\frac{P}{L} \frac{P}{L} \frac{P}{L}$	PROPERTY LINE (P/L)
<u>∧ SR SR SR</u> ⊙	SLOPE RIGHTS
6f 6f	6F PROPERTY BOUNDARY
4f 4f	4F PROPERTY BOUNDARY
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→ → → CHECK DAM DISTURBED AREAS REQUIRING RE-VEGETATION EROSION MATTING EROSION MATTING EENST DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY ENVIRONMENTAL RESOURCES WETLAND BOUNDARY RIPARIAN BUFFER ZONE WETLAND BUFFER ZONE SOIL TYPE BOUNDARY TRE TREATENED & ENDANGERED SPECIES HAZ HAZARDOUS WASTE AREA AG AG AGNICULTURAL LAND HAZARDOUS WASTE AREA AG AGNICULTURAL LAND HAZARDOUS WASTE AREA AG AGNELLINAL FLOOD PLAIN VICOBINARY HIGH WATER (OHW) STORM WATER USDA FOREST SERVICE LANDS WILDLIFE HABITAT SUIT/CONN ARCHEOLOGICAL & HISTORIC ARCHEOLOGICAL BOUNDARY HISTORIC DISTRICT BOUNDARY HISTORIC STRUCTURE CONVENTIONAL TOPOGRAPHIC SYMBOLOGY EXISTING FEATURES ROAD EDGE GAVEL ORIVEWAY EDGE ORD OF GRAVEL ORD OF GRAVEL ORD OF GUARDAIL <
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HISTORIC HISTORIC AREA HISTORIC STRUCTURE CONVENTIONAL TOPOGRAPHIC SYMBOLOGY XISTING FEATURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION X X X X X FENCE (EXISTING) BRUCE STEEL POST GARDEN ROAD GUARDRAIL MAILROAD TRACKS CULVERT (EXISTING) STONE WALL WOOD LINE BRUSH LINE HEDGE BODY OF WATER EDGE
HISTORIC STRUCTURE CONVENTIONAL TOPOGRAPHIC SYMBOLOGY XISTING FEATURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION X X X X X FENCE (EXISTING) FENCE WOOD POST GARDEN ROAD GUARDRAIL MULL WOOD LINE BRUSH LINE HEDGE BODY OF WATER EDGE
CONVENTIONAL TOPOGRAPHIC SYMBOLOGY EXISTING FEATURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL PRIVEWAY EDGE DITCH FOUNDATION X X FENCE (EXISTING) PODE FENCE WOOD POST GARDEN ROAD GUARDRAIL RAILROAD TRACKS CULVERT (EXISTING) WALL WOOD LINE BRUSH LINE HEDGE BOLY OF WATER EDGE
EXISTING FEATURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION X X X X FENCE (EXISTING) FENCE WOOD POST O O GARDEN ROAD GUARDRAIL RAILROAD TRACKS CULVERT (EXISTING) STONE WALL WOOD LINE BRUSH LINE HEDGE BODY OF WATER EDGE

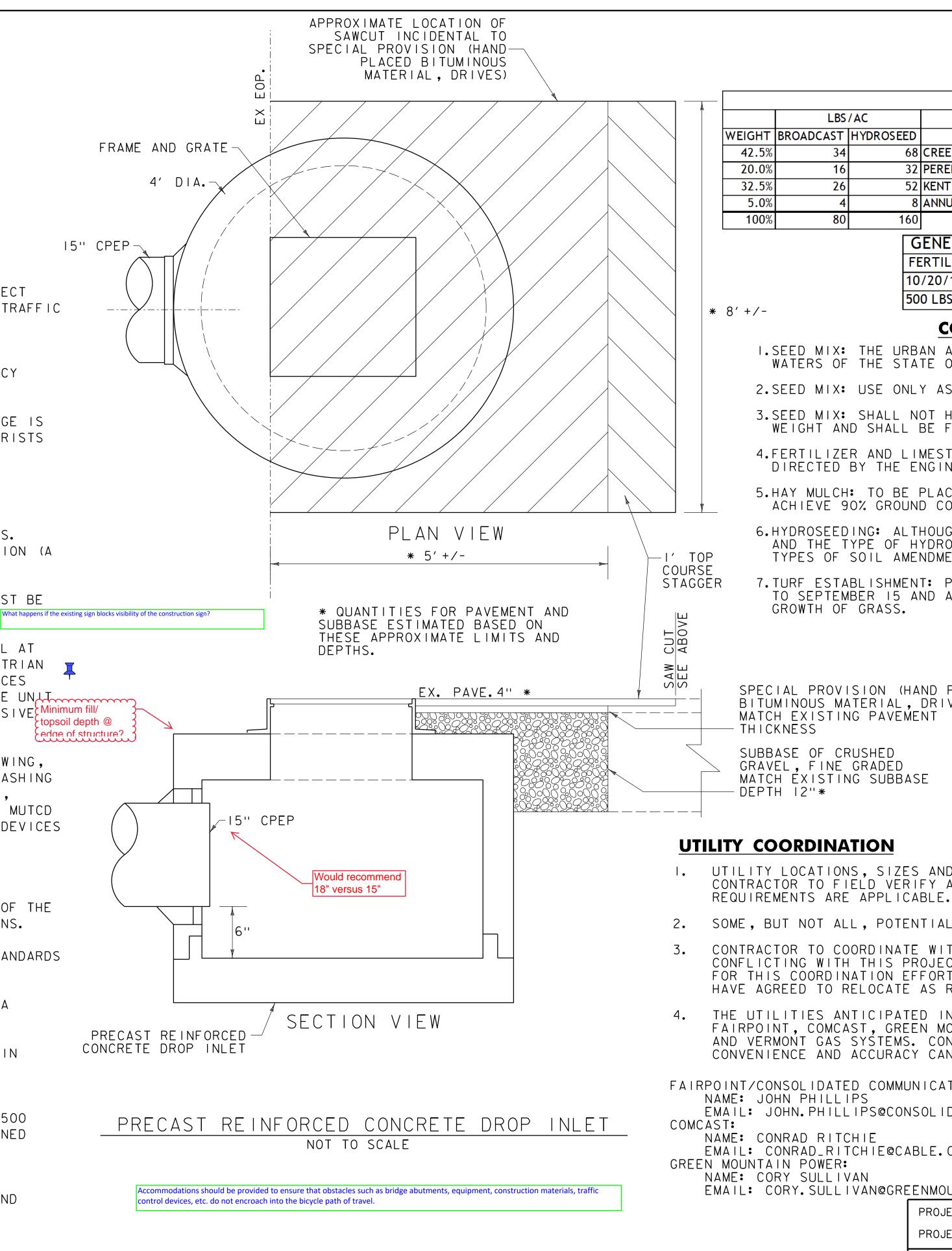


EXIST EASTERLY		
1.400		
1.dgn	TYPICAL TRENCH CRO U.G. CABLE IN C	
	TIONS -X- -X- -X- -X- -X- $(\bigcirc \uparrow)$ $(\bigcirc \uparrow)$ $(\bigcirc \uparrow)$ $(\bigcirc \uparrow)$ $(\bigcirc \uparrow)$ $(\bigcirc (\uparrow))$ $(\bigcirc (\frown))$ $(\bigcirc (\frown))$	ELECTRICAL CABLE MARKING TAPE SHALL BE PLACED 8" - 12" BELOW FINISHED GRADE ABOVE ELECTRICAL CONDUIT(S) -X- -X- -X- -X- -X- -X- -X- -X- -X- -X
L TRENCHES SHAI WILL PASS A 4 II L SIDES OF THE L LARGER THAN 8 LLED WAYS AND HES. MOUNDING 1 DER THE FOLLOW ETE. IF NECESS/ EMENT. BROOK CROSSING CROSSINGS OF W NORMALLY, THE E	L BE A MINIMUM OF 18 INCHES WIDE, THE NCH MESH, THIS MATERIAL SHALL BE A MI CONDUIT, THE REMAINDER OF THE BACKFIL INCHES IN ANY DIMENSION, CAREFULLY C PARKING LOTS, THE MINIMUM DEPTH, UNDEI THE TRENCH, TO PROVIDE THE REQUIRED I TING CONDITIONS, PVC CONDUIT SHALL BE ARY FOR LOGISTICAL REASONS, RIGID STEE S ATER, SEWER, AND GAS PIPES. CROSSINGS LECTRICAL CONDUIT SHALL BE A MINIMUM L BELOW THE ELECTRICAL CONDUIT. CON-	L SHALL BE CLEAN, AND, SHALL NOT CONTAIN OMPACT THE FULL DEPTH OF BACKFILL, UNDER R A HIGHWAY, SHALL BE 48 INCHES RATHER THAN
UNDER THE TRAV A PIPE SLEEVE, S CONDUIT WITHIN BELOW GRADE. RENCHES SHOULD CTURE. CONTACT RENCHES SHOULD UIT. CONTACT EN DMMUNICATIONS C DMMUNICATIONS C DNDUITS. A MINIMU UITS SHALL BE SI ER-TO-CENTER.	ELLED WAY OF CITY STREETS. AND, UNDE URROUNDING THE PVC CONDUIT, MAY BE S 20 FEET OF TANKS CONTAINING FUELS OR BE LOCATED 10 FEET FROM ANY STRUCT ENGINEERING IF CLOSER APPROACHES ARE BE LOCATED 10 FEET FROM ANY WATER, GINEERING IF CLOSER APPROACHES ARE NE ABLES AND CONDUITS MAY BE LOCATED IN IM HORIZONTAL OR VERTICAL SEPARATION	SOLVENTS. THESE TANKS MAY BE ABOVE OR TURE, UNLESS THE CONDUIT IS GOING TO THE NECESSARY. SEWER, OR GAS PIPE THAT PARALLELS THE TEESSARY. I THE SAME TRENCH WITH ELECTRIC CABLES OF 12 INCHES IS REQUIRED. ELECTRICAL S ARE MEASURED SURFACE-TO-SURFACE NOT
IMUM 2 INCH CON IE CONDUIT MUST ONCRETE. THE CO STEEL SHALL NO PTION: WHILE CON UITS, RIGID METAL PPOSITE SIDE COI DESIRED INCREASE EPARATED BY A N D-D WOULD BE IN ISTALLING CONDUI	NORETE SHALL NOT BE MOUNDED IN SUCH T BE USED AS A SUBSTITUTE FOR BURIAL CRETE ENCASEMENT IS RECOMMENDED FOR CONDUIT MAY BE SUBSTITUTED PER NEC IDUITS FOR A LOOP FEED PRIMARY URD M IN RELIABILITY. IF THE TWO CONDUITS AF MINIMUM OF 2 FT HORIZONTALLY. THE 6 IN CREASED TO 24 INCHES. THE DEVELOPER I PER SECTION B-B. ALTERNATIVELY, THEY BY A MINIMUM OF 3 INCHES, AND, THE COM	D DOWN TO THE LEDGE (OBSTRUCTION). SHALL BE ENCASED IN A 4 INCH ENVELOPE A WAY AS TO BE A TRIPPING HAZARD. DEPTHS SHALLOWER THAN 24 INCHES. CUSTOMER OWNED SHALLOW BURIED TABLE 300-5 (TABLE 300-50 FOR PRIMARY). IUST HAVE ADEQUATE SEPARATION TO PROVIDE RE TO PARALLEL EACH OTHER, THEY SHALL
	DISTRIBUTION STANDARD	App'd: \$\$\$ STANDARD NUMBER DATE: 12/12 2125 Page 1
	PROJECT NAME: LAMPL PROJECT NUMBER: TAP T	
antec	FILE NAME: I7F0I7det.dgn PROJECT LEADER: T.LUTHER DESIGNED BY: P.ARMATA DETAILS	PLOT DATE: 9/20/2018 DRAWN BY: P.ARMATA CHECKED BY: T.LUTHER SHEET 3 OF 10

TRAFFIC CONTROL NOTES

- I. THE OBJECTIVE OF ANY TRAFFIC CONTROL PLAN IS TO MINIMIZE DELAYS AND IMPACT ON THE TRAFFIC FLOW WHILE PROVIDING A SAFE PASSAGE FOR VEHICLES AND PEDESTRIANS DURING AND AFTER CONSTRUCTION WORK HOURS.
- 2. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 105.03 OF THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011. THIS PLAN SHALL BE SUBMITTED TWO WEEKS IN ADVANCE OF THE START OF CONSTRUCTION AND THE WORK SHALL NOT COMMENCE UNTIL THE SITE-SPECIFIC TRAFFIC CONTROL PLAN HAS BEEN ACCEPTED BY THE PROJECT ENGINEER.
- 3. FLAGGER CONTROLLED ALTERNATING ONE-WAY TRAFFIC WILL BE ALLOWED.
- 4. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THESE PROJECT PLANS, APPLICABLE VAOT STANDARD DRAWINGS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009, AND ITS LATEST REVISIONS, OR AS DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR MUST PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES OR COORDINATE EMERGENCY ROUTES.
- 6. SIGNS SHALL ONLY BE VISIBLE TO MOTORISTS AT THE TIMES WHEN THE MESSAGE IS PERTINENT, I.E. A "FLAGGER AHEAD" SIGN SHALL ONLY BE VISIBLE TO MOTORISTS WHEN THE FLAGGER IS ACTUALLY PRESENT PERFORMING THEIR DUTIES.
- 7. A MINIMUM LANE WIDTH OF IO FT AND SHOULDER WIDTH OF 2 FT SHALL BE MAINTAINED.
- 8. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES. ACCESS TO RESIDENTIAL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK WILL BE COORDINATED WITH THE OWNER.
- 9. ALL PERMANENT SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROL MUST BE COMPLETELY COVERED. |Sign covering shall not damage the retro-reflectivity of the sign face. Also, the sign cover shall not deteriorate for he duration that the sign is covered
- IO.ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMMODATE PEDESTRIAN TRAVEL AT ALL TIMES. THIS CAN INCLUDE, BUT IS NOT LIMITED TO A DEDICATED PEDESTRIAN ESCORT (NOT A FLAGGER DUTY), SIGNAGE AND PEDESTRIAN CHANNELIZING DEVICES WALKWAYS THAT MEET ADA REQUIREMENTS. PAYMENT WILL BE INCLUDED IN THE UNLIMINARY PRICE FOR ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE
- II. THE BID PRICE FOR ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE), SHALL INCLUDE BUT IS NOT LIMITED TO ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS. TEMPORARY TRAFFIC BARRIERS. BARRELS. CONES. BARRICADES. TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN THE MUTCD AND VAOT STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.
- 12. SEE VAOT STANDARD T-10 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
- 13. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MUTCD, AND AS OUTLINED IN THE SPECIAL PROVISIONS. and its latest revisons
- 14. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.
- 15. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
- 16. RETROREFLECTIVE SHEETING SHALL BE AS NOTED ON VAOT STANDARD T-I AND IN SUBSECTION 750.08
- 17. AS THE CONSTRUCTION OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 500 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
- 18. BARRELS AND CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
- 19.NO NIGHT WORK WILL BE ALLOWED PER THE SPECIAL PROVISIONS.

If 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.



Have they TMP questions been answered or accommodated for



	VAOT URBAN LAWN MIX						
LBS	/AC						
١ST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY		
34	68	CREEPING RED FESCUE	FESTUCA RUBRA X RUBRA	85%	98 %		
16	32	PERENNIAL RYE GRASS	LOLIUM PERENNE	90%	9 5%		
26	52	KENTUCKY BLUE GRASS	POA PRATENSIS	85%	<mark>8</mark> 5%		
4	8	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	9 5%		
80	160						

GENERAL AMENDMENT GUIDANCE			
FERTILIZER	LIME		
10/20/10	AG LIME	PELLITIZED	
500 LBS/AC	2 TONS/AC	1 TONS/AC	

CONSTRUCTION GUIDANCE

I.SEED MIX: THE URBAN AREA MIX SHALL NOT BE USED IN WETLANDS OR ANY WATERS OF THE STATE OF VERMONT.

2.SEED MIX: USE ONLY AS INDICATED IN THE PLANS.

3.SEED MIX: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

4.FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER

5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE. ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.

6.HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED

7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

SPECIAL PROVISION (HAND PLACED BITUMINOUS MATERIAL, DRIVES) MATCH EXISTING PAVEMENT

UTILITY LOCATIONS. SIZES AND TYPE SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND RESOLVE ANY CONFLICTS. DIG SAFE

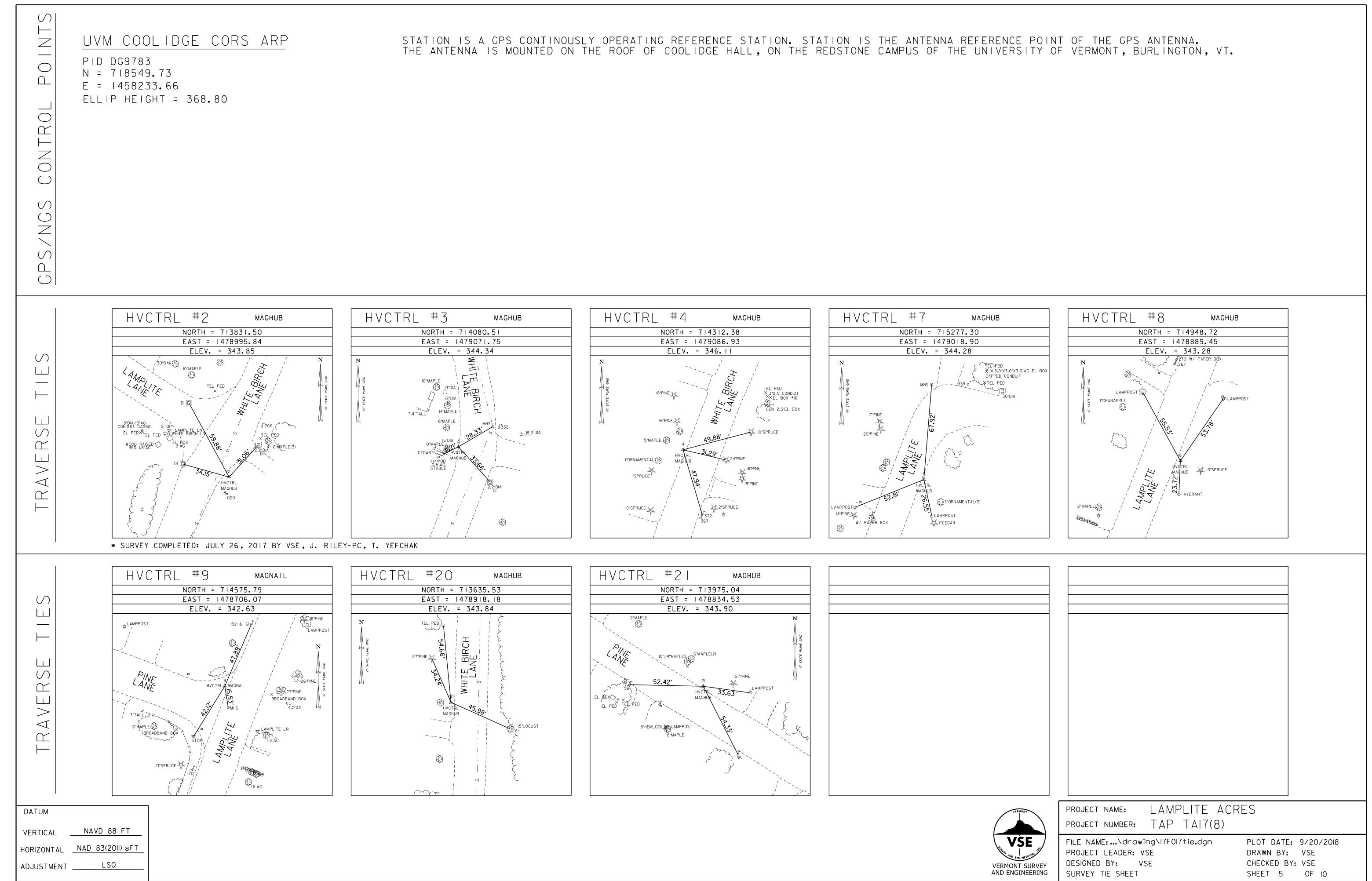
2. SOME. BUT NOT ALL. POTENTIAL UTILITY CONFLICTS ARE NOTED IN THE PLANS.

CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES TO RELOCATE UTILITIES CONFLICTING WITH THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS COORDINATION EFFORT. ALL UTILITIES ARE AWARE OF THIS PROJECT AND HAVE AGREED TO RELOCATE AS REQUIRED DURING CONSTRUCTION.

THE UTILITIES ANTICIPATED IN THE AREA INCLUDE. BUT ARE NOT LIMITED TO FAIRPOINT, COMCAST, GREEN MOUNTAIN POWER, TOWN OF WILLISTON WATER & SEWER AND VERMONT GAS SYSTEMS. CONTACT INFORMATION PROVIDED FOR CONTRACTOR'S CONVENIENCE AND ACCURACY CANNOT BE GURRANTEED:

LLIPS	JNICATIONS: NSOLIDATED.COM	VERMONT GAS SYSTEMS: NAME: MATT ANDERSON PHONE: 802-951-0327	
ER: Livan	ABLE.COMCAST.CON	EMAIL: BHOAR@WILLISTON Phone:802-878-1239	VT.ORG
	PROJECT NAME:	_AMPLITE ACRES TAP TAI7(8)	
	FILE NAME: 17F017de+ PROJECT LEADER: T.	•	

antec	PROJECT LEADER: T.LUTHER DESIGNED BY: P.ARMATA DETAILS	DRAWN BY: P.ARMATA CHECKED BY:T.LUTHER SHEET 4 OF IO
	FILE NAME: 17F017det.dgn	PLOT DATE: 9/20/2018



	Y SHEET 1		UANT	C,					F VERMON RANSPORT	
	DESCRIPTIONS		TOTALS			DQUANTITIES	ARY OF ESTIMATED QUA	SUMM		
	ITEMS	UNIT	GRAND TOTAL FINAL	EROSION CONTROL	ROADWAY					
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	LS	1		1					
203.15	COMMON EXCAVATION	СҮ	450		450					
204.20	TRENCH EXCAVATION OF EARTH	СҮ	1700		1700					
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	СҮ	1		1					-
301.26	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	СҮ	25		25					
541.25										
	CONCRETE, CLASS B	CY	3		3					
601.0910	15" CPEP	LF	185		185					-
604.18	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE (TYPE D)	EACH	15		15					
604.20	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)	EACH	33		33					
617.10	RELOCATE MAILBOX, SINGLE SUPPORT	EACH	6		6					
630.15	FLAGGERS	HR	160		160					
635.11	MOBILIZATION/DEMOBILIZATION	LS	1		1					
651.15	SEED	LB	50	50						
651.18	FERTILIZER	LB	300	300						
651.20	AGRICULTURAL LIMESTONE	TON	1	1						
651.35	TOPSOIL	СҮ	275	275						
653.20	TEMPORARY EROSION MATTING	SY	2500	2500						
653.55	PROJECT DEMARCATION FENCE	LF	1800	1800						
678.21	ELECTRICAL CONDUIT (3" SCH 40)	LF	450		450					
900.640	SPECIAL PROVISION (15" PERFORATED CPEP(SL))	LF	1110		1110					
900.645	SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)	LS	1		1					
900.675	SPECIAL PROVISION (HAND-PLACED BITUMINOUS MATERIAL, DRIVES)	SY	60		60					
			•							



					DETAILED SUMMARY OF QUANTITIES
M NUMBER	ROUND	_	QUANTITIES	UNIT	ITEMS
01.10	-	_			
03.15	20	_			
04.20	60	_			
04.22	-				
01.26	5	_			
41.25	-	_			
01.0910	7	_			
04.18	-	_			
04.20	-	_			
17.10	EST				
30.15	-				
35.11	-	649	.11?		
51.15	10	049	. !		
51.18	50				
51.20	-	_			
51.35	6	_			
53.20	80	_			
53.55	9	_			
578.21	11	_			
00.640	4	_			
000.645		_			
000.675	- EST	_			
	LOT	_			
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	ſ				
					LAMPLITE ACRES
		LKO'	JECT NUME		TAP TAI7(8)

	SWALE	SUMMARY	
STATION	OFFSET	ELEVATION	COMMENTS
10+35	12.5′LT	343.0	BEGIN SWALE
10+50	13.0'LT	342.9	SWALE
11+00	15.7′LT	342.6	SWALE
11+25	14.0'LT	342.4	FULL DEPTH
12+00	21.0′LT	342.4	FULL DEPTH
12+00	21.0′LT	342.4	FULL DEPTH
12+55	21.0′LT	MATCH EX.	END SWALE
10+00	16.6′RT	343.0	BEGIN SWALE
11+02	16.6′RT	342.6	BEGIN FULL DEPTH
+44	16.6′RT	342.6	FULL DEPTH
11+84	17.0'RT	342.4	FULL DEPTH
12+35	18.4′RT	342.4	END FULL DEPTH
13+25	16.6′LT	342.8	FULL DEPTH
4+ 5	17.0'LT	342.8	FULL DEPTH
22+00	16.0′RT	343.0	BEGIN SWALE
22+60	16.0'RT	343.0	END SWALE

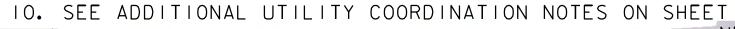
	PIPE	SUMMARY				NLET SUN	MARY			
PIPE ID#	DIAMETER	LENGTH	COMMENTS	INLET ID#	STATION	OFFSET	RIM ELEV	PIPE INV	PIPE INV	
P-1	15''	38′	PERFORATED	DS-I(CB)	+02	16.5′RT	343.10	339.IO(N)	340.30(W)	and the
P-2	15''	36′	PERFORATED	DS-2 (CB)	+44	17.0'RT	343.10	339.IO(S)	339.IO(N)	-
P-3	15''	46′	PERFORATED	DS-3 (CB)	+84	17.5′RT	342.90	338.90(S)	339. IO (N)	
P-4	15''	4′	NON-PERFORATED	DS-4 (CB)	12+35	18.4′RT	342.90	339.84(W)	338.90(S)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
P-5	15''	4′	NON-PERFORATED	DS-5 (DI)	12+35	12.4′RT	343.34	_	340.34 (E)	PED TEL
P-6	15''	80′	PERFORATED	DS-5A (DI)	+02	10.5′RT	343.80	_	340.80 (E)	
P-7	15''	16′	NON-PERFORATED	DS-6 (CB)	11+25	19.0'LT	342.90	338.90 (N)	_	5
P-8	15''	46′	NON-PERFORATED	DS-7 (CB)	12+03	21.0'LT	342.90	338.90(S)	338.90 (N)	ROW
P-8A	15''	4′	NON-PERFORATED	DS-8 (DI)	+ 5	II.0'LT	343.41	339.60 (S)	339.70 (N)	C.K
P-9	15''	86′	PERFORATED	EX-I (EX)	12+52	14.0'LT	EX.ELEV.		_	
				DS-9 (DI)	13+25	10.6'LT	343.80	340.80(W)	_	E
				DS-10 (CB)	13+25	16.6'LT	343.30	339.80 (E)	339.30 (N)	
				DS-11 (CB)	14+15	17.0'LT			339.30 (N)	10

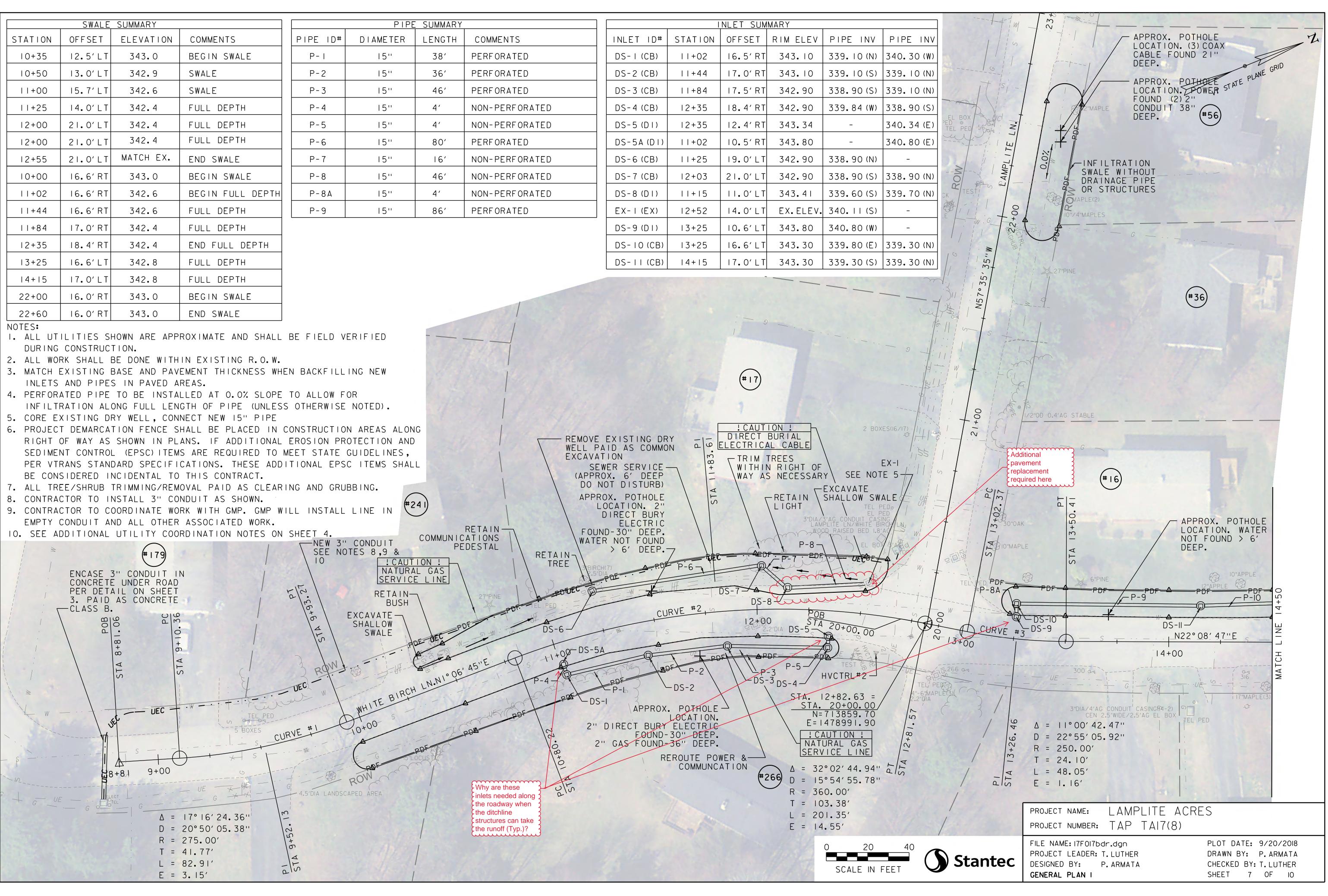
DURING CONSTRUCTION.

INLETS AND PIPES IN PAVED AREAS.

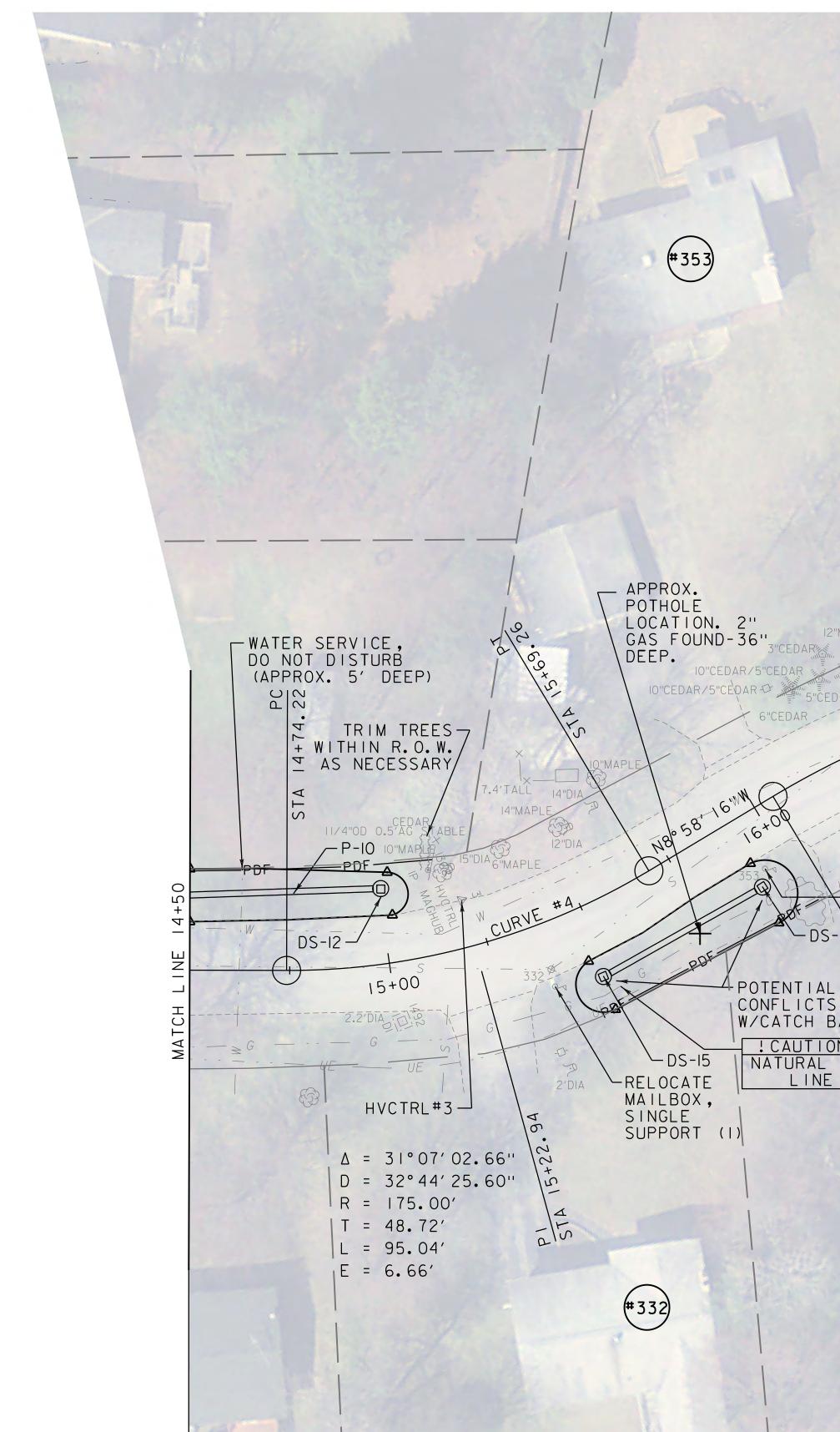
RIGHT OF WAY AS SHOWN IN PLANS. IF ADDITIONAL EROSION PROTECTION AND SEDIMENT CONTROL (EPSC) ITEMS ARE REQUIRED TO MEET STATE GUIDELINES, PER VTRANS STANDARD SPECIFICATIONS. THESE ADDITIONAL EPSC ITEMS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.

- EMPTY CONDUIT AND ALL OTHER ASSOCIATED WORK.

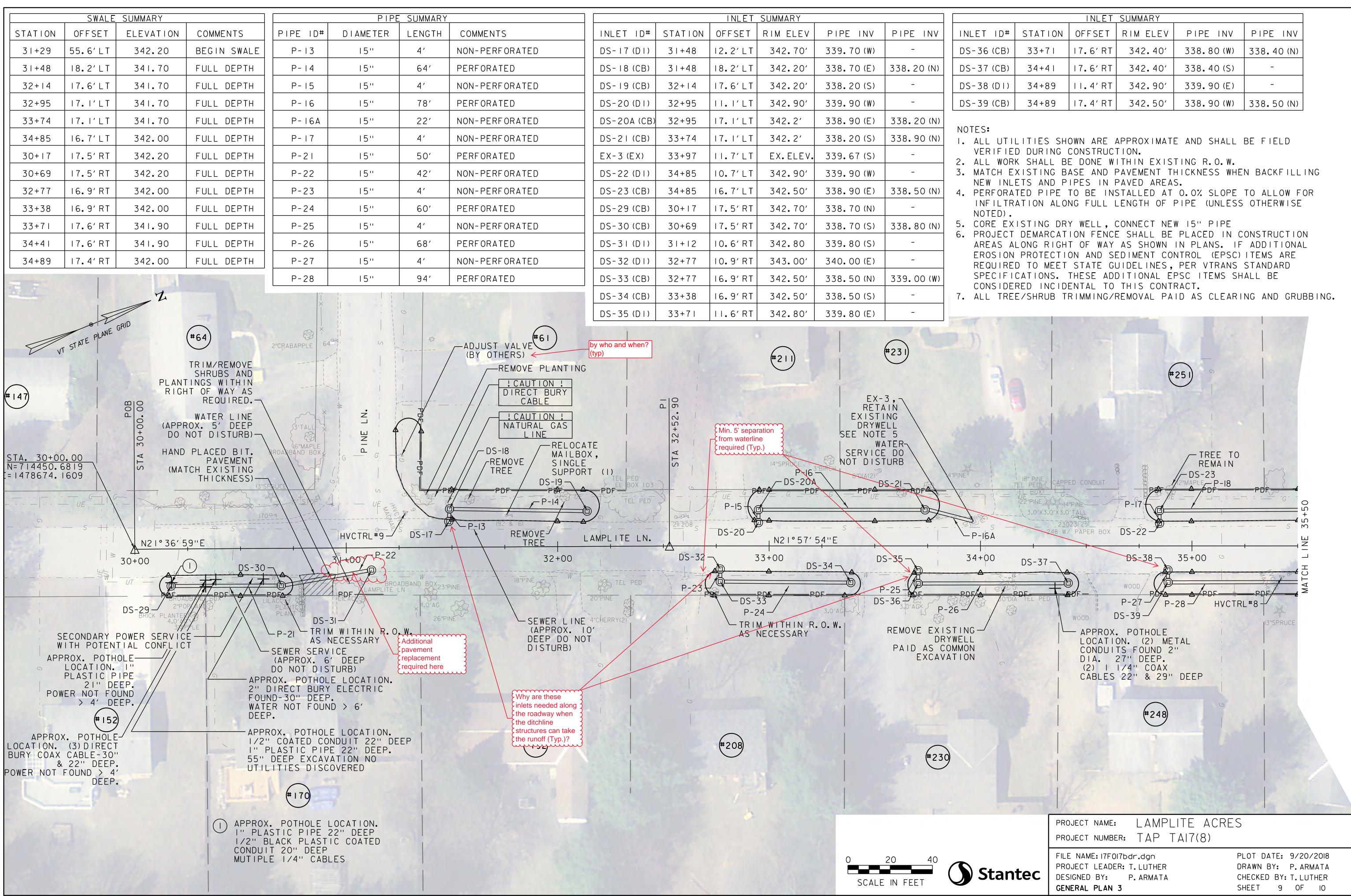




	SWALE	SUMMARY	
STATION	OFFSET	ELEVATION	COMMENTS
15+00	18.0'LT	342.80	FULL DEPTH
7+ 8	17.0'LT	345.16	FULL DEPTH
17+56	17.4′LT	345.10	FULL DEPTH
15+48	18.2′RT	343.80	FULL DEPTH
5+9	19.2′RT	343.80	FULL DEPTH



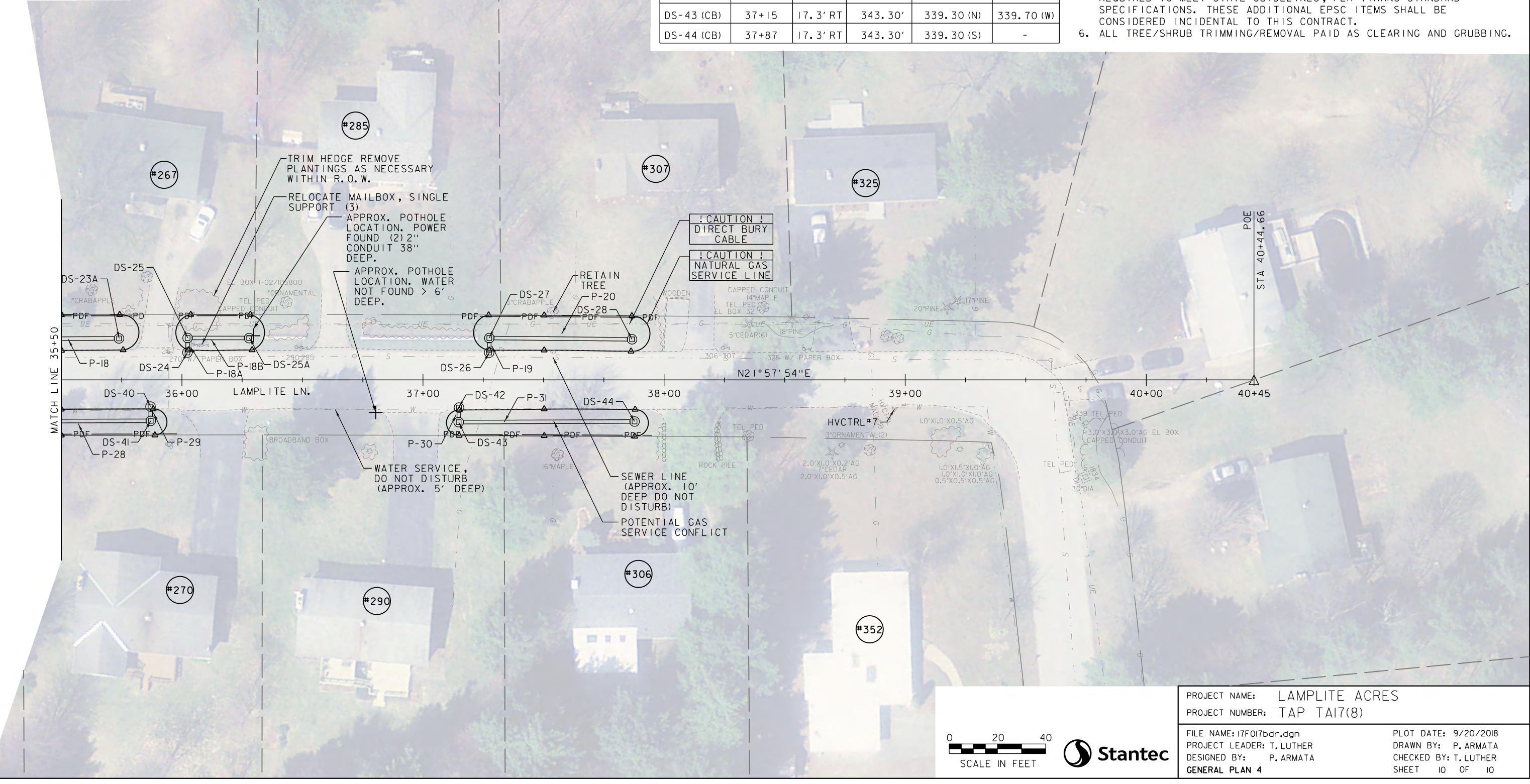
	1.								
			# <u>403</u>			E	VT STAT	E PLANE GRID	Z
<u>UE</u>	STA 18+69.50								
		W				- W			W
	▲ 8+7(5 -) G	G Q UE	s — - G —	S 1 G	C— G	S S 	G	G
¥	1. 2. 3. 4.	ALL WORK SH MATCH EXIST NEW INLETS PERFORATED INFILTRATION NOTED). PROJECT DEM AREAS ALONO EROSION PRO REQUIRED TO SPECIFICAT	JRING CONST HALL BE DON FING BASE A AND PIPES PIPE TO BE ON ALONG FU MARCATION F G RIGHT OF DTECTION AN D MEET STAT IONS. THESE INCIDENTAL	RUCTIO E WITH ND PAY IN PAY INSTA IN	ON. HIN EX VEMENT VED ARE ALLED A NGTH OF SHALL E S SHOWN IMENT (DELINES TIONAL HIS CON	ISTING F THICKNE EAS. AT 0.0% F PIPE BE PLACE N IN PLA CONTROL S, PER Y EPSC I NTRACT.	R.O.W. ESS WHEN SLOPE TC (UNLESS C ED IN CON ANS. IF A (EPSC) IT VTRANS ST TEMS SHAL	BACKFILL ALLOW FO THERWISE STRUCTION DDITIONAL EMS ARE ANDARD L BE	DR N -
			PROJECT NAME PROJECT NUME FILE NAME: 17F	BER: T	AP T.	TE AC AI7(8)		ATE: 9/20/20	D18
) S	stantec	PROJECT LEAD DESIGNED BY: GENERAL PLAN	ER: T.L P.A	-		DRAWN E	BY: P.ARMA) BY:T.LUTH	ТА

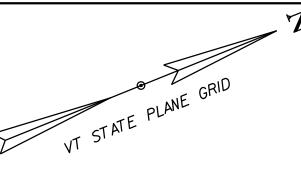


		INLET	SUMMARY		
ID#	STATION	OFFSET	RIM ELEV	PIPE INV	PIPE INV
CB)	33+71	17.6′RT	342.40′	338.80(W)	338.40 (N)
CB)	34+41	17.6′RT	342.40′	338.40 (S)	-
DI)	34+89	11.4′RT	342.90′	339.90(E)	-
CB)	34+89	17.4′RT	342.50′	338.90(W)	338.50 (N)

	SWALE	SUMMARY	
STATION	OFFSET	ELEVATION	COMMENTS
35+74	17.2′LT	342.00	FULL DEPTH
36+02	7.4′LT	342.60	FULL DEPTH
36+28	17.4′LT	342.60	FULL DEPTH
37+28	17.3′LT	342.90	FULL DEPTH
37+86	7.3′LT	342.90	FULL DEPTH
35+87	16.9′RT	342.00	FULL DEPTH
37+15	17.3′RT	342.80	FULL DEPTH
37+87	17.3′RT	342.80	FULL DEPTH
<u> </u>			

	PIPE	SUMMARY				INLET	SUMMARY		
PIPE ID#	DIAMETER	LENGTH	COMMENTS	INLET ID#	STATION	OFFSET	RIM ELEV	PIPE INV	PIPE INV
P-18	15''	88′	PERFORATED	DS-23A (CB)	35+74	17.2'LT	342.50′	338.50(S)	-
P-18A	15"	4′	NON-PERFORATED	DS-24 (DI)	36+02	.4'LT	343.50′	340.50(W)	-
P-18B	15''	24′	PERFORATED	DS-25 (CB)	36+02	17.4′LT	343.10′	339.IO(N)	339.50(E)
P-19	15''	4′	NON-PERFORATED	DS-25A (CB)	36+28	17.4'LT	343.10′	339.IO(S)	-
P-20	15''	58′	PERFORATED	DS-26 (DI)	37+28	. 3'LT	343.80′	340.80(W)	_
P-28	15''	96′	PERFORATED	DS-27 (CB)	37+28	17.3'LT	343.40′	339.40 (N)	339.80 (E)
P-29	15''	4′	NON-PERFORATED	DS-28 (CB)	37+86	17.3'LT	343.40′	339.40(S)	_
P-30	15''	4′	NON-PERFORATED	DS-40 (DI)	35+87	10.9'RT	343.50′	340.50(E)	-
P-31	15''	72′	PERFORATED	DS-41 (CB)	35+87	16.9′RT	342.50′	338.50(S)	339.50(W)
				DS-42 (DI)	37+15	11.3′RT	343.70′	340.70(E)	-
				DS-43 (CB)	37+15	17.3′RT	343.30′	339.30 (N)	339.70(W)
			a line alter	DS-44 (CB)	37+87	17.3′RT	343.30′	339.30(S)	_





LL UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD ERIFIED DURING CONSTRUCTION.

LL WORK SHALL BE DONE WITHIN EXISTING R.O.W. ATCH EXISTING BASE AND PAVEMENT THICKNESS WHEN BACKFILLING EW INLETS AND PIPES IN PAVED AREAS.

ERFORATED PIPE TO BE INSTALLED AT 0.0% SLOPE TO ALLOW FOR NFILTRATION ALONG FULL LENGTH OF PIPE (UNLESS OTHERWISE NOTED).

ROJECT DEMARCATION FENCE SHALL BE PLACED IN CONSTRUCTION REAS ALONG RIGHT OF WAY AS SHOWN IN PLANS. IF ADDITIONAL ROSION PROTECTION AND SEDIMENT CONTROL (EPSC) ITEMS ARE EQUIRED TO MEET STATE GUIDELINES, PER VTRANS STANDARD

Done - APD -10/15/2018

Estimate 17F017

Estimated Cost:\$330,681.59

Contingency: 0.00%

Estimated Total: \$330,681.59

INSTALLATION OF ABOVE AND BELOW GRADE DRAINAGE UPGRADES, UTILITY COORDINATION AND MINOR REGRADING.

Base Date: 09/20/18

Spec Year: 11

Unit System: E

Work Type: DRAINAGE (CULVERTS, UNDERDRAIN ETC.)

Highway Type: LOCAL

Urban/Rural Type: URBAN

Season: WINTER (OCTOBER 16th - APRIL 14th)

County: WILLISTON

Midpoint of Latitude: 444592

Midpoint of Longitude: 0731190

District: NW

Federal/State Project Number: LAMPLITE ACRES TAP TA17(8)

Estimate Type: FINAL PLANS

WILLISTON |

442731 0730710

Prepared by C. WAITE on 09/20/18 Checked by T. LUTHER on 09/20/18 Approved by ANDE DEFORGE on 09/20/18

<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>
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<u>Line #</u> <u>Item Number</u> <u>Description</u> <u>Supplemental Description</u>

Group 1011: ROADWAY

Croup	ICTI: NOADWAT					
0005	201.10	1.000		\$5,000.00000		\$5,000.00
	EARING AND GRUBBING, INCLUDI				Undete \$22.00	
0010	203.15	450.000	CY	\$19.34324 <	Update \$23.09	\$8,704.46
	MMON EXCAVATION			* / a / a a a a		
0015	204.20	1,700.000	CY	\$13.48023		\$22,916.39
IRE	ENCH EXCAVATION OF EARTH					
0020	204.22	1.000	CY	\$75.00000		\$75.00
	ENCH EXCAVATION OF EARTH, EX					
0025	301.26	25.000		\$41.76086 ←── U	pdate \$59.45	\$1,044.02
SUE	BBASE OF CRUSHED GRAVEL, FINE GRA	ADED			· · · · · · · · · · · · · · · · · · ·	
0030	541.25	3.000	CY	\$761.32939 🔶 🖊	-Update \$852.35	\$2,283.99
0005	CONCRETE CLASS B	405 000				* •••••
0035	601.0910	185.000	LF	\$34.05000 < 🛛 🕖	lpdate \$77.82	\$6,299.25
	CPEP 604.18	15 000		\$3,000.00000		\$45,000.00
0040	ECAST REINFORCED CONCRETE				Update \$3,949.76	φ45,000.00
	PED)	DROF INLE	vviiii	AST INON GRATE		-
	604.20	33 000	FACH	\$3,190.89667 ←	Update \$3,667.25	\$105,299.59
					Opdate \$3,007.23	φ100,200.00
	(PEA)					
0050	,	6.000	EACH	\$376.49412 ←	-Update \$203.10	\$2,258.96
	LOCATE MAILBOX, SINGLE SUPPC		_,	ţ0.0.0	000000000000000000000000000000000000000	<i><i><i></i></i></i>
0055	630.15	160.000	HR	\$30.66993 🔶 🗕 🚽	Update \$39.91	\$4,907.19
FLA	AGGERS					. ,
0060	635.11	1.000	LS	\$15,819.72050		\$15,819.72
MO	BILIZATION/DEMOBILIZATION					
0005	070.04	450.000		¢40,44004		ФТ 007 04
0065	678.21 CTRICAL CONDUIT	450.000	LF	\$16.41691		\$7,387.61
	SCH 40)					
	900.640	1,110.000	LF	\$65.00000		\$72,150.00
	ECIAL PROVISION	1,110.000		400.00000		¢12,100.00
	" PERFORATED CPEP(SL))					
0075	900.645	1.000	LS	\$5,000.00000		\$5,000.00
SP	ECIAL PROVISION					· · · · · · · · · · · · · · · · · · ·
	RAFFIC CONTROL, ALL-INCLUSIVE)				
00800	900.675		SY	\$75.00000 <	Update \$35.00	\$4,500.00
SP	ECIAL PROVISION					
(HA	ND-PLACED BITUMINOUS MATER	IAL, DRIVES)			
				Total fo	or Group 1011:\$308	.646.18
						,
Croup						
Group	1051: EROSION CONTROL					
0085	651.15	50.000	LB	\$10.26373		\$513.19
				,		,

0085 651.15 SEED	50.000	LB	\$10.26373	\$513.19
0090 651.18 FERTILIZER	300.000	LB	\$2.62663	\$787.99
0095 651.20 AGRICULTURAL LIMESTONE	1.000	TON	\$731.23546	\$731.24
0100 651.35 TOPSOIL	275.000	CY	\$45.86988 - Update \$55.27	\$12,614.22
0105 653.20 TEMPORARY EROSION MATTING	2,500.000	SY	\$2.29911	\$5,747.78
0110 653.55 PROJECT DEMARCATION FENCE	1,800.000	LF	\$0.91166	\$1,640.99

Line # Item Number

Supplemental Description

Description

Total for Group 1051:\$22,035.41

this page should be deleted



Contractor's EEO Certification Form CA-109

Lamplite Acres TAP TA17(8) Invitations to Bidder

2018

Contract Documents for

Drainage Updates Project – Lamplite Acres, TAP TA17(8) Town of Williston, VT

VT Agency of Transportation 2011 Standard Specifications for Construction shall apply to this contract.

Owner:	Is there a need for any	
Town of Williston	utility special provisions?	
Williston Town Offices		
7878 Williston Road	EPSC plans?	have all permit conditions
Williston, VT 05495		been addressed?
	design certification?	
Add Date Here		
	will the town need to	
	procure construction	
Bid Set No	inspection services?	
	Is there a need for any	1
	utility agreements?	

need date prior to

bidding

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Invitation for Bids Instructions to Bidders Bid Form Special Provisions

Appendices

- A. Contractors EEO Certification Form CA-109
- B. Debarment & Non-Collusion Affidavit CA-91
- C. Required Contract Provisions for Federal-Aid Construction, FHWA Form 1273
- D. Standard Federal EEO Specifications, (Executive Order 11246)
- E. Certification of Federal Aid Contracts CA-163
- F. Vermont Minimum Labor & Truck Rates
- G. Worker Classification Compliance Requirement
- H. Disadvantaged Business Enterprise (DBE) Policy Contract Requirements
- I. General Special Provisions for All Projects dated XXXXX 🥿
- J. Example Compliance and Labor & Materials Bond Forms
- K. Project Change Order Form
- L. Work Zone Safety and Mobility Guidance Document

Project Specific Attachments

- US Department of Labor Davis-Bacon Rates
- Materials Record & Certification Package (Provided by VTrans Project Supervisor)
- Project Permits
- Right of Way and Utility Clearance

will be requested with contract plans

The following documents are available at: <u>https://outside.vermont.gov/agency/VTRANS/external/MAB-LP/Shared%20Documents/Forms/AllItems.aspx</u> (click on "Construction")

- Notice of Award
- Sample Construction Agreement
- Notice to Proceed
- Release of Waiver & Lien

Lamplite Acres TAP TA17(8)

need to check all dates

Invitations to Bidder

Lamplite Acres TAP TA17(8)

Sealed bids from pre-qualified contractors shall be accepted until time, prevailing time on day and date at location for construction of the project hereinafter described. Bid opening will occur immediately after the bid submittal deadline. The time of receiving and opening bids may be postponed due to emergencies or unforeseen conditions.

Sealed BIDS shall be marked in the lower left-hand corner: Bid Documents: Lamplite Acres TAP TA17(8)

Each BID must be accompanied by a certified check payable to the Town of Williston for five percent (5%) of the total amount of the BID. A BID bond may be used in lieu of a certified check.

PREQUALIFICATION OF CONTRACTORS: All bidders on this project shall be on the Agency of Transportation's prequalified list under the category(ies) listed below or shall have submitted a complete prequalification application to the Agency of Transportation, Contract Administration, a minimum of 10 working days prior to the bid opening. For information contact Jon Winter at 802-828-2643.

All bidders shall be on the current VTRANS Contract Administration pre-qualified list "Contractors List of Drainage (Culverts and Underdrains) Category".

Bids submitted by bidders that exceed their Maximum Dollar Capacity Rating (MDCR) as determined by the Vermont Agency of Transportation on an annual basis will be considered non-responsive.

LOCATION: Beginning at a point in the Lamplite Acres development off of North Brownell Road in the Town of Williston.

TYPE OF CONSTRUCTION: Work to be performed under this project includes: installation of above and below grade drainage upgrades, utility coordination and minor regrading.

CONTRACT COMPLETION DATE: The Contract shall be completed on or before date.

OBTAINING PLANS: Plans may be obtained from the Blueprints, Etc., 20 Farrell St. #101, South Burlington, VT 05403 Phone: 802-865-4503 at a cost of \$xx per set made payable to Blueprints, Etc. Plans are not returnable. Blueprints, Etc. shall track all plan holders for addendum distribution.

ENGINEERS ESTIMATE: For this Proposal the Engineers Estimate falls between \$300,000 and \$500,000.

PLANS, SPECIFICATIONS AND PROPOSAL MAY BE SEEN AT THE OFFICE OF:

- 1. Town of Williston Public Works Department, 7878 Williston Road], Town of Williston, VT 05495.
- 2. Stantec Consulting, Inc. 55 Green Mountain Drive, South Burlington, VT 05403
- 3. Blueprints, Etc., 20 Farrell St. #101, South Burlington, VT 05403

PREBID CONFERENCE: A non-mandatory pre-bid conference will be held for the project on date and time at location.

STANDARD SPECIFICATIONS: This contract is governed by the Vermont Agency of Transportation ("VTrans") 2011 Standard Specifications for Construction.

QUESTIONS: During the advertisement phase of this project all questions shall be addressed solely to James Sherrard, 7878 Williston Road, Williston, VT 05495, (802) 878-1239

EQUAL EMPLOYMENT OPPORTUNITY (EEO) CERTIFICATION: Certification is required by the Equal Employment Opportunity regulations of the Secretary of labor (41 CFR 60-1.7(b) (1)) and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Generally only contracts and subcontracts of \$10,000 or under are exempt as set forth in 41 CFR 60-1.5. See Appendix A for Contractors EEO Certification Form (CA-109). This certification form must be submitted with the bid.

NON-COLLUSION AFFIDAVIT: All bidders are required to execute a sworn statement, certifying that the bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract. See Appendix B for Debarment and Non-Collusion Affidavit (CA-91). **This affidavit must be submitted with the bid.**

DEBARMENT AFFIDAVIT: All bidders are required to execute a sworn statement, certifying that the bidder has not within the last three (3) years been, suspended, debarred, voluntarily excluded or determined ineligible by any Federal or State Agency; does not have a proposed suspension, debarment, voluntary exclusion or ineligibility determination pending; and has not been indicted, convicted or had civil judgment rendered against (it, him, her, them) by a court having jurisdiction in any matter involving fraud or official misconduct within the past three (3) years. See Appendix B for Debarment and Non-Collusion Affidavit (CA-91). **This affidavit must be submitted with the bid.**

NON-DISCRIMINATION IN FEDERALLY ASSISTED CONTRACTS: The Town of Williston hereby notifies all bidders that it will ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated

against on the basis of race, color, religion, sex or national origin for an award. This is consistent with the Town's requirement to comply with provisions of Title VI.

DAVIS BACON WAGE REQUIREMENTS: Bidders agree to abide by the Davis Bacon Wage Rate Schedule, which are appended to these Contract Documents.

BUY AMERICA REQUIREMENTS: Buy America requirements of 23 CFR 635.410 are applicable to all Federal-aid construction projects. All steel or iron products permanently incorporated into Federal-aid projects, shall be products that have been entirely manufactured within the United States. All manufacturing processes of the steel or iron material, in a product, must occur within the United States to be considered of domestic origin. This includes process such as rolling, extruding, machining, bending, grinding, and drilling. The action of applying a coating to a material is deemed a manufacturing process subject to Buy America. Coating includes epoxy coating, galvanizing, painting, and any other coating that protects or enhances the value of the material.

INSTRUCTIONS TO BIDDERS Lamplite Acres TAP TA17(8)

1. Bid Preparation and Submission

- a. Bidders are expected to examine the specifications, drawings, all instructions and, the construction site. Failure to do so will be at the bidders' risk.
- b. All bids must be submitted on the forms provided by the municipality. Bidders shall furnish all the information required by the solicitation. Bids must be signed and the bidders name typed or printed on the bid sheet and each continuation sheet which requires the entry of information by the bidder. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent shall be accompanied by evidence of the agent's authority. (Bidders should retain a copy of their bid for their own records.)
- c. All bids shall be sealed in an envelope which shall be clearly marked with the words "Bid Document," the Invitation to Bid number, any project or other identifying number, the bidder's name, and the date and time for receipt of bids.
- d. This solicitation requires bidding on all items, failure to do so will disqualify the bid.
- e. Unless expressly authorized elsewhere in this solicitation, alternate bids will not be considered.
- f. Unless expressly authorized elsewhere in this solicitation, bids submitted by telegraph, facsimile (fax) machines, or electronically via the internet or email will not be considered.
- g. All blank spaces under the page(s) headed "Bid Form" must be filled in with ink or typewriter in both words and figures indicating the unit price for each respective bid item. The bid total shall also be entered in words and figures.
- h. In case of a discrepancy between a unit price written in words and one entered in figures, the price written in words shall govern.
- i. In case of a discrepancy between the bid total written in words and that entered as a figure, the adjusted figure shall govern.
- j. The estimated quantities are not guaranteed and can be adjusted as needed during the project, but are given as a basis for the comparison of bids.

Lamplite Acres TAP TA17(8) Instructions to Bidders

2. Explanation and Interpretation to Prospective Bidders

- a. Any prospective bidder desiring an explanation or interpretation of the solicitation, specification, drawings, etc., must request it at least 10 days before the scheduled time for bid opening. Requests may be oral or written. Oral requests must be confirmed in writing. The only oral clarifications that will be provided will be those clearly related to solicitation procedures, i.e., not substantive technical information. No other oral explanation or interpretation will be provided. Any information given to a prospective bidder concerning this solicitation will be furnished promptly to all other prospective bidders as a written addendum to the solicitation, if that information is necessary in submitting bids, or if lack of it would be prejudicial to other prospective bidders.
- b. Any information obtained by, or provided to, a bidder other than by formal addendum to the solicitation shall not constitute a change to the solicitation.

3. Addendum to Invitation for Bids

- a. If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.
- b. Bidders shall acknowledge receipt of any addendum to this solicitation by identifying the addendum number and date on the bid form. Bids which fail to acknowledge the bidders receipt of any addendum will result in the rejection of the bid if the addendum (addenda) contained information which substantively changed the municipality's requirements.
- c. Addenda will be on file in the offices of the Municipality at least 5 days before the bid opening.

4. Responsibility of Prospective Contractor

a. All prospective contractors shall be pre-qualified under the appropriate work category by the Vermont Agency of Transportation, Contract Administration. For this project a current annual prequalification is necessary. The contact for pre-qualification is Jon Winter, Tel: (802) 828 2643. Please note that applications for pre-qualification must be made at least 10 working days prior to the bid opening. Bids submitted by bidders that exceed their Maximum Dollar Capacity Rating (MDCR) as determined by the Vermont Agency of Transportation on an annual basis will be considered non-responsive.

- b. The VERMONT AGENCY OF TRANSPORTATION "POLICIES AND PROCEDURES FOR PREQUALIFICATION, BIDDING, AND AWARD OF CONTRACTS", latest edition, Sections 1-6 and 9 are hereby incorporated in these specifications and the contract by reference. Sections 1 through 6 shall not be subject to the changes to the definitions in the Special Provisions.
- c. The Method of Measurement and Basis of Payment for all contract items shall follow the Vermont Agency of Transportation's ("VTrans") 2011 Standard Specification for Construction, unless modified in these Contract Documents.
- d. If a bidder submits a unit bid price of zero for a contract bid item, the bid will be declared informal.
- e. A bidder may submit a unit bid price that is obviously below the cost of the item. If the Municipality awards and enters into a contract with a Bidder that has submitted a unit bid price that is obviously below cost, the contractor shall be obligated to perform the work under such item as indicated in the contract documents and/or as directed by the Engineer.
- f. When "Optional Bid Items" are indicated in the proposal bidders shall bid on only one pay item in each group of options, leaving the other pay items in the group without a bid price. If a bidder enters more than one unit price bid in a group of options, only the lowest total price will be considered as the basis of calculation for determining the low bidder and used in the contract.
- g. When "Alternate Bid Items" are indicated in the Proposal bidders must bid on all pay items in each set of "Alternate Bid Items". Failure to bid on all of the "Alternate Bid Items" in the proposal may result in rejection of the bid.
- h. When the Bid Form for a contract contains pay item(s) which have a quantity of one (1) and a unit price and total price entered, the work will be performed by the contractor according to the contract documents at the unit price listed if such item is determined to be needed by the Engineer.
- i. When it is indicated in the contract documents that payment or costs of work and/or materials are incidental to one or more other contract items (but not to specific other items), such costs shall be included by the bidder in the price bid for all other contract items.

5. Errors and/or Inconsistencies in Contract Documents

a. By submitting a bid, a prospective bidder/contractor certifies that it shall assert no claim, cause of action, litigation, or defense against the Municipality unless notice was provided to the Municipality in writing of any error or

inconsistency discovered in the plans, specifications, and/or contract documents immediately upon discovery of such error or inconsistency.

6. Availability of Lands for Work, Etc.

 a. The lands upon which the Work is to be performed, rights of way and easement for access thereto and other lands designated for use by the contractor in performing the Work are identified in the contract documents. All additional lands and access thereto required for temporary construction facilities, construction equipment or storage of materials and equipment to be incorporated in the work are to be obtained and paid for by the Contractor. Easements for permanent structures or permanent changes in the existing facilities are to be obtained and paid for by the Municipality unless otherwise provided for in the contract documents.

7. Familiarity with Laws, Ordinances and Regulations

- a. By submitting a bid an entity certifies that it is familiar with all Federal, State and local laws, ordinances and regulations which affect in any way the materials, equipment, haul roads used in or upon the work, the conduct of the work, and the persons engaged or employed in the performance of the work to be performed pursuant to the contract.
- b. By submitting a bid an entity certifies that it shall forthwith report in writing to the Municipality any provision in the plans, specifications or proposed contract that the bidder/contractor believes is in conflict with or inconsistent with any Federal, State or local law, ordinance, or regulation.
- c. By submitting a bid a prospective Bidder certifies that if, during its investigation of the work in the process of preparing its bid, it discovers or encounters subsurface or latent physical conditions at a project site differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract, it shall notify in writing the Municipality of the specific differing conditions immediately upon discovering or encountering the differing site conditions.
- d. An entity further certifies that if it fails to notify the Municipality of any differing site conditions as described above, it shall waive any and all rights that it might have to additional compensation from the Municipality for additional work as a result of the differing site conditions and that it shall not bring a claim for additional compensation because of differing site conditions.
- e. By submitting a bid a prospective bidder/contractor certifies that no claim or defense of ignorance or misunderstanding concerning Federal, State or local

laws, ordinances and/or regulations will be employed by a bidder/contractor or considered by the Municipality in claims, litigation, alternative dispute resolution procedures, or other matters concerning the contract for which the bid is submitted.

8. Late Submissions, Modifications, and Withdrawal of Bids

- a. Any bid received at the place designated in the solicitation after the exact time specified for receipt will not be considered.
- b. Any modification or withdrawal of a bid is subject to the same conditions as in paragraph (a.) of this provision.
- c. The only acceptable evidence to establish the time of receipt at the Municipality is the time/date stamp of the Municipality on the bid wrapper, or other documentary evidence of receipt maintained by the municipality.
- d. Bids may be withdrawn by written notice, or if authorized by this solicitation, by telegram (including mailgram) or facsimile machine transmission received at any time before the exact time set for opening of bids: provided that written confirmation of telegraphic or facsimile withdrawals over the signature of the bidder is mailed and postmarked prior to the specified bid opening time. A bid may be withdrawn in person by a bidder or its authorized agent if , before the exact time set for opening of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

9. Bid Opening

a. All bids received by the date and time specified in the solicitation will be publicly opened and total bid amounts read aloud. The time and place of opening will be as specified in the solicitation. Bidders and other interested persons may be present. In the event of unforeseen circumstances (severe weather, etc.) the Municipality reserves the right to postpone the reading of the bids for that contract. All bids for a contract will be opened at the same time and location at a later date.

10. Protests

a. This Section sets forth the exclusive protest remedies available with respect to this solicitation. Each Bidder, by submitting its bid, expressly recognizes the limitation on its rights to protest contained herein, expressly waives all other rights and remedies and agrees that the decision on any protest, as provided herein, shall be final and conclusive unless wholly arbitrary. These provisions

are included in this solicitation expressly in consideration for such waiver and agreement by the Bidders. Such waiver and agreement by each Bidder are also consideration to each other Bidder for making the same waiver and agreement.

- b. A Bidder may protest any determination regarding the proposed award of a Contract by filing a notice of protest by hand delivery or courier to the Williston Selectboard. Such notice shall be provided: (a) no earlier than the day of Town of Williston issuance of the Notice of Award; and (b) no later than five (5) business days after Town of Williston issuance of the Notice of Award. The notice of protest shall specifically state the grounds of the protest.
- c. Within seven (7) calendar days of the notice of protest the protesting Bidder must file with the Municipality a detailed statement of the grounds, legal authorities and facts, including all documents and evidentiary statements, in support of the protest. Evidentiary statements, if any, shall be submitted under penalty of perjury. The protesting Bidder shall have the burden of proving its protest by clear and convincing evidence.
- d. Failure to file a notice of protest or a detailed statement within the applicable period shall constitute an unconditional waiver of the right to protest the evaluation or qualified process and decisions there under.
- e. Unless otherwise required by law, no evidentiary hearing or oral argument shall be provided, except the Williston Selectboard, in its sole discretion, may decide to permit a hearing or argument if it determines that such hearing or argument is necessary for the protection of the public interest. The Williston Selectboard shall issue a written decision regarding the protest within thirty (30) calendar days after it receives the detailed statement of protest. Such decision shall be final and conclusive.
- f. If the Williston Selectboard concludes that the Bidder submitting the protest has established a basis for protest, the Williston Selectboard will determine what remedial steps, if any, are necessary or appropriate to address the issues raised in the protest. Such steps may include, without limitation, withdrawing or revising the decisions, issuing a new solicitation or taking other appropriate actions.

11. Rejection of Bids

a. The Municipality may declare a Bid "Informal" and hence rejected if the bid shows any alteration of form, omissions or additions not called for in the bid, lacks proper signatures, is a conditional bid, has alternate bids unless required in the bid, has irregularities of any kind, has changes to the printed content, is submitted on a form not furnished by the Municipality, is incomplete, fails to acknowledge receipt of one or more addendums, or includes a clause in which the bidder reserves a right to accept or reject the contract award.

- b. The Municipality may reject a bid at the time of bid opening or following analysis to confirm the proposal.
- c. The Municipality may reject any or all bids, waive any or all technicalities, and/or advertise for new bids if the municipality, in consultation with VTrans, determines that the best interests of the Municipality, or the awarding authority, will be served.
- d. The Municipality will reject a bid submitted without a completed Debarment and Non-Collusion Affidavit.
- e. The Municipality will reject a bid submitted without a signed Contractors Equal Employment Certification Form.
- f. The Municipality will reject a bid submitted without a Bid Bond.
- g. The Municipality will reject a bid submitted by a bidder that exceeds their Maximum Dollar Capacity Rating (MDCR) as determined by the Vermont Agency of Transportation on an annual basis.
- h. The Municipality will reject bids which fail to acknowledge the bidder's receipt of any addendum if the addendum (addenda) contained information which substantively changed the municipality's requirements.
- i. The Municipality will decide whether any bid prices are unbalanced above or below a reasonable cost analysis value as determined by its Municipal Project Manager. Bids in which bid prices are unbalanced, mathematically and/or materially, may be rejected at the sole discretion of the Municipality. For purposes of this subsection "mathematically unbalanced bid" and "materially unbalanced bid" shall have the same meaning as in 23 CFR Part 635 – Construction and Maintenance.
- j. Prospective bidders may be disqualified for various reasons including (a) Submission of more than one proposal for the same work by an entity under the same or different names, (b) Evidence of collusion among bidders, or (c) Any other cause for suspension or debarment as detailed in the Agency's policy and Procedures on Debarment, Code of Vermont Rules (CVR), Volume 8A, 14 010 004, pages 1-10.

12. Contract Award

- a. The municipality will evaluate bids in response to this solicitation without discussions and will award a contract to the lowest responsive and responsible bidder whose bid, conforming to the solicitation, will be most advantageous to the municipality considering only price and any price related factors specified in the solicitation.
- b. Opened bids will be considered and submitted bids confirmed on the basis of the summation of the products of the quantities shown in each bid's Schedule of Items multiplied by the unit prices bid. In the event of a discrepancy between the written bid amount and the alpha numeric figure, the written amount shall govern. In the event of a discrepancy between a unit price and the calculated extension, the product based on the unit price bid and the mathematically correct summation of the products shall govern.
- c. The municipality may reject any and all bids, waive any or all technicalities, and/or advertise for new bids if the municipality, in consultation with VTrans, determines that the best interests of the municipality will be served.
- d. The municipality may reject any bid as nonresponsive if it is materially unbalanced as to the prices for the various items of work to be performed. A bid is materially unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly overstated for other work.
- e. A written award shall be furnished to the successful bidder within the period for acceptance specified in the bid and shall result in a binding contract without further action by either party.
- f. Prior to signing a construction contract, the successful bidder must submit a current Certificate of Good Standing from the Vermont Secretary of State's office.

13. Bid Guarantee

a. All bids must be accompanied by a negotiable bid guarantee which shall not be less than five percent (5%) of the amount of the bid. The bid guarantee may be a certified check, bank draft, U.S. Government Bonds at par value, or a bid bond secured by a surety company acceptable to the U.S. Government and authorized to do business in the State of Vermont. Certified checks and bank drafts must be made payable to the order of the municipality. The bid guarantee shall insure the execution of the contract and the furnishing of a method of assurance of completion by the successful bidder as required by the solicitation. Failure to submit a bid guarantee with the bid shall result in rejection of the bid. Bid guarantees of the two lowest bidders that have Lamplite Acres TAP TA17(8) Instructions to Bidders

submitted bids that comply with all the provisions required to render them formal will be retained until the contract and bonds have been signed by all parties. Bid guarantees submitted by the remaining unsuccessful bidders will be returned as soon as practicable after bid opening. Should no award be made within thirty-one calendar days following the opening of bids, thirty-two if the thirty-first day is a state holiday, all bids may be rejected and all guarantees may be returned.

14. Contract Bonds

- A successful bidder entering into a contract for any portion of the work included in a bid shall provide the Town sufficient surety in the form of; 1) a labor and materials bond, and 2) a compliance bond, both as required by 19 V.S.A. Section 10(8) and (9).
- b. Each bond shall be in a sum equal to one hundred percent (100%) of the contract awarded.
- c. The labor and materials bond shall guarantee the payment in full of all bills and accounts for materials and labor used in the work as well as other obligations incurred in carrying out the terms of the contract.
- d. The compliance bond shall guarantee the faithful performance and completion of the work to be done under the contract as well as compliance with all provisions of the contract.
- e. The form of the bond shall be that provided by the Municipality, and the surety shall be acceptable to the State. The bonds shall be procured from an insurance company registered and licensed to do business in the State of Vermont.

15. Signing the Contract

- a. The entity to which the Contract has been awarded shall sign the contract documents and return them the Municipality within 30 calendar days from the date of the Notice of Award. No contract shall be considered effective until it has been fully executed by all parties.
- b. Failure to comply with any of the requirements of these provisions relative to signing the contract or failure to furnish the required surety within fifteen (15) calendar days after notice of award shall be just cause for the annulment of the award or of the contract and/or forfeiture of the bid guarantee/bid bond. Further, if the award or the contract is annulled, or if the contract is not

awarded due to in(action) of the lowest responsible bidder that has submitted a bid that complies with all the provisions required to make it formal, the bid guarantee accompanying the bid shall become the property of the Municipality, not as a penalty but as liquidated damages.

- c. If the award or the contract is annulled, the Municipality may award the contract to the next lowest responsible bidder that has submitted a bid that complies with all the provisions required to make it formal or advertise a new request for bids for the contract(s).
- d. Failure by the contractor to sign the contract within the time provided by this Subsection shall not be reason for an extension of the contract completion date.

16. Taxes and Insurance Requirements

Taxes and insurance for this project shall be in conformance with Section 103 of the VTrans 2011 Standard Specifications for Construction.. For this project the following limits for Commercial Liability and Automobile coverage apply:

Commercial Liability:

\$1,500,000 \$2,000,000 \$2,000,000 \$250,000	Each Occurrence General Aggregate applying, in total, to this project only Products/completed Operations Aggregate Fire Damage Legal Liability					
Automobile L	.iability:					
Bodily Injury	-	\$1,000,000	Each Person			
		\$1,000,000	Each Occurrence			
Property Dar	nage	\$500,000	Each Occurrence			
		OR				
Combined Si	ngle Limit	\$1,500,000	Each Occurrence			
	-					

17. Prompt Pay Compliance

a. Vermont's Prompt Pay Statute requires payment from primes to subs within 7 days of primes receiving payment. Vermont State Statutes Annotated, Title 9, §4003 provides: "Notwithstanding any contrary agreement, when a subcontractor has performed in accordance with the provisions of its contract, a contractor shall pay a subcontractor, and each subcontractor shall in turn pay its subcontractors, the full or proportional amount received for each such subcontractor's work and materials based on work completed or service provided under the subcontractor, seven days after receipt of each progress or final payment or seven days after receipt of the subcontractor's invoice, whichever is later."

18. Preconstruction Conference

a. After award of a contract under this solicitation and prior to the start of work, the successful bidder will be required to attend a preconstruction conference with representatives of the Municipality, Design and/or Resident Engineer, Municipal Project Manager (MPM), and the VTrans Project Supervisor, and other interested parties convened by the Municipality's engineer/representative. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract. The municipality will provide the successful bidder with the date, time and place of the conference. Note: If the specific material testing and certification requirements are not included elsewhere in the contract documents, they will be provided by the Municipality to the contractor at the preconstruction conference.

19. Waste Borrow and Staging Areas

- a. The opening and use of offsite waste, borrow and staging areas shall follow the provisions of Section 105.25 of the VTrans Standard Specifications for Construction, 2011 Edition.
- b. The Contractor and/or property owner shall obtain all necessary permits and clearances prior to using off site waste, borrow or staging areas. In addition all off site waste borrow and staging areas must be reviewed and approved by the VTrans Environmental Section prior to use. Application should be made at least 21 calendar days prior to planned utilization. No work will be performed at offsite waste borrow or staging areas without written approval of the VTrans Environmental Section. The forms for either documenting an exempt site or applying for review of a site may be found on the VTrans web site at: <u>http://vtrans.vermont.gov/working/offsite-activity</u>

20. DBE Requirements

a. There are to be no mandatory Contract goals for DBE compliance on this project.

21. Contaminated Soils

a. If contaminated soils are encountered during the course of construction, the Contractor is directed to contact: Mr. Andy Shively, Hazardous Material and

Waste Coordinator, of the Vermont Agency of Transportation at (802) 229-8740.

22. Contract Documents

The following documents are included in this proposal and are effective for this contract. Proposal holders are reminded to check the contents of this proposal against the following index. In the event that you suspect or determine the proposal is incomplete, notify Ande Deforge (802) 595-6657

• Invitation for Bids

should be town contact

- Instruction to Bidders
- Bid Form
- Project Plans (obtained as described above)
- Project Special Provisions
- VTrans 2011 Standard Specifications for Construction (included by reference only)
- Contractors EEO Certification Form CA-109 Appendix A
- Debarment & Non-Collusion Affidavit CA-91 Appendix B
- Required Contract Provisions for Federal-Aid Construction, FHWA Form 1273 – Appendix C
- Standard Federal EEO Specifications, (Executive Order 11246) Appendix D
- Certification of Federal Aid Contracts CA-163 Appendix E
- Vermont Minimum Labor & Truck Rates Appendix F
- Worker Classification Compliance Requirement Appendix G
- Disadvantaged Business Enterprise (DBE) Policy Contract Requirements – Appendix H
- General Special Provisions for All Projects dated August 8,2018 -Appendix I
- Example Compliance and Labor & Materials Bonds Appendix J
- Project Change Order Form Appendix K
- Work Zone Safety and Mobility Guidance Document Appendix L
- US Department of Labor Davis-Bacon Rates Chittenden County
- Materials Record & Certification Package
- Project Permits
- Environmental Permits
- Right of Way and Utility Clearance

must match quantity sheet and estimate

BID FORM Lamplite Acres Lamplite Acres TAP TA17(8)

Proposal of

(hereinafter called Bidder), organized and existing under the laws of the State of doing business as

(a corporation, a partnership, of an individual)

To the Town of Williston, Vermont (hereinafter called Owner)

The Bidder represents that this bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation. The bidder has not directly or indirectly induced or solicited any other bidder to submit a false bid. Bidder has not solicited or induced any person, firm or corporation to refrain from bidding and the bidder has not sought by collusion to obtain for himself any advantage over any other bidder or Owner.

It is essential that all forms that require signature as part of the final Bid Submission be signed or the Bid itself will be invalid:

- Contractors EEO Certification Form CA-109 Appendix A
- Debarment & Non-Collusion Affidavit CA-91 Appendix B

The undersigned bidder proposed and agrees, if this bid is accepted, to enter into an agreement with Owner to furnish all materials and to complete all work as specified or indicated in the Contract Documents for the contract price and within the contract time indicated in this bid and in accordance with the Contract Documents.

The undersigned bidder, by submission of this bid, certifies that the total base bid does not exceed their total Maximum Dollar Capacity Rating (MDCR) as determined by the Vermont Agency of Transportation on an annual basis.

Bidder hereby agrees to commence Work under this contract on the date of issuance of the Notice to Proceed and that the Final Completion date for this contract is **INSERT DATE**.

Bidder acknowledges receipt of the following Addenda:

Bidder agrees to perform all the Work described in the Contract Documents for the following schedule of prices. Unqualified bids will not be accepted.

VTrans ITEM #	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
201.10	Clearing and Grubbing	LS	1	\$	\$
	Unit Price in Words				
203.15	Common Excavation				
		EA	450	\$	\$
	Unit Price in Words				
204.20	Trench Excavation of E	arth			
		CY	1700	\$	\$
	Unit Price in Words				
204.22	204.22 Trench Excavation of Earth, Exploratory (N.A.B.I)				
		CY	1	\$ <u>75</u>	\$ <u>75</u>
	Unit Price in Words	Sev	enty-Five Dol	lars	
301.26	Subbase of Crushed G	ravel, F	ine Graded		
		CY	25	\$	\$
	Unit Price in Words				
541.25	Concrete, Class B	CY	3	\$	\$
	Unit Price in Words				
601.0910	15" CPEP	LF	185	\$	\$
	Unit Price in Words				
604.18	Precast Reinforced Con	ncrete	Drop Inlet witl	n Cast Iron Gra	ate (Type D)
		EA	15	\$	\$
	Unit Price in Words				

Lamplite Acres TAP TA17(8) Bid Form

604.20	Precast Reinforced Concrete Catch Basin with Cast Iron Grate					
	(Type A)	EA	33	\$	\$	
	Unit Price in Words					
617.10	Relocate Mailbox, Sin	gle Suppo	rt			
		EA	6	\$	\$	
	Unit Price in Words					
630.15	Flaggers	HR	160	\$	\$	
	Unit Price in Words					
635.11	Mobilization/Demobiliz	zation				
		LS	1	\$	\$	
	Unit Price in Words					
651.15	Seed	LB	50	\$	\$	
	Unit Price in Words					
651.18	Fertilizer	LB	300	\$	\$	
	Unit Price in Words					
651.20	Agricultural Limestone	;				
		TON	1	\$	\$	
	Unit Price in Words					
651.35	Topsoil	CY	275	\$	\$	
	Unit Price in Words					
653.20	Temporary Erosion M	atting				
		SY	2500	\$	\$	
	Unit Price in Words					
653.55	Project Demarcation F	ence				
		LF	1800	\$	\$	
	Unit Price in Words					
678.21	Electrical Conduit (3"	SCH 40)				
		CY	450	\$	\$	
	Unit Price in Words					

Lampli Bid Form	te Acres TAP TA	17(8)			[Pick the dat	te]
900.640	Special Provision (15	" Perforat	ed CPEP(S	SL)		
		LF	1110	\$	\$	
	Unit Price in Words					
900.645	Special Provision (Tra	affic Cont	rol, All-Inclu	usive)		
		LS	1	\$	\$	
	Unit Price in Words					
900.675	Special Provision (Ha	and-Place	d Bitumino	us Materia	al, Drives)	
		SY	60	\$	\$	
	Unit Price in Words					
			Total Ba	ase Bid	\$	
Total Bas	se Bid Written					

The lowest responsive and responsible bidder will be determined by the Total Base Bid.

The above unit prices shall include all labor, materials, removal, overhead, profit, insurance, etc. to cover the finished work as specified within the Contract Documents.

THE ABOVE PROPOSAL IS HEREBY RESPECTFULLY SUBMITTED BY:

Contractor

By

Title

Business Address

Lamplite Acres TAP TA17(8) Bid Form

City

State

Date

ATTEST_____

LS = lump sum EA = each SY = square yard SF = square feet CWT = hundredweight GAL = gallon HR = hour LU = lump unit CY = cubic yard LF = linear foot TON = ton MGAL = thousand gallons LB = pound

PROJECT SPECIAL PROVISIONS

In case of discrepancy, precedence of the Contract Documents will follow be determined by Section 105.05 of the latest edition of the VTrans Standard Specifications for Construction.

STANDARD SPECIFICATIONS. The provisions of the most current VTrans STANDARD SPECIFICATIONS FOR CONSTRUCTION, as modified herein, shall apply to this Contract.

<u>CONTRACT COMPLETION DATE</u>. This Contract shall be completed on or before INSERT DATE.

<u>UTILITIES</u>. The Contractor is advised to use caution when working around aerial or underground utilities to protect the facilities from damage.

Employees or agents of utility companies are to be allowed free and full access within the project limits with the tools, materials, and equipment necessary to install, operate, maintain, place, replace, relocate, and remove their facilities.

There will be no extra compensation paid to the Contractor for any inconvenience caused by working around and with utilities.

Act No. 86 of 1987 (30 VSA Chapter 86)("Dig Safe") requires that notice be given prior to making an excavation. It is suggested that the Permit Holder or his/her contractor telephone 1-888-344-7233 at least 48 hours before, and not more than 30 days before, beginning any excavation at any location.

Should the Contractor desire additional adjustments of the utility facilities for his/her convenience, proper arrangements shall be made in conformance with Subsection 105.07 of the Standard Specifications for Construction.

NOTICE TO BIDDERS. All temporary construction signs shall meet the following requirements:

- A. All sign stands and post installation shall be National Cooperative Highway Research Program Report (NCHRP) 350 compliant.
- B. As a minimum, roll up sign material shall have ASTM D 4956-01 Type VI fluorescent orange retroreflective sheeting.
- C. All post-mounted signs and solid substrate portable signs shall have ASTM D 4956-01 Type VII, Type VIII, or Type IX fluorescent orange retroreflective sheeting.

- D. All retroreflective sheeting on traffic cones, barricades, and drums shall be at a minimum ASTM Type III sheeting.
- E. All stationary signs shall be mounted on two 3 lb/ft flanged channel posts or 2 inch square steel inserted in 2 ¼" galvanized square steel anchors. No sign posts shall extend over the top edge of sign installed on said posts.
- F. Prior to placing temporary work zone signs on the project, the Contractor must furnish for the Engineer's approval a detail for temporary work zone signs on steel posts showing stubs projecting a maximum of 4 inches above ground level and bolts for sign post.
- G. Construction signs shall be installed so as to not interfere with nor obstruct the view of existing traffic control devices, stopping sight distance, and corner sight distance from drives and town highways.
- H. Speed zones, if used, should be a maximum of 10 mph below existing posted speeds. Temporary speed limit certificates must be approved by the Williston Selectboard.

NOTICE TO BIDDERS. All retroreflective sheeting on permanent signs (signs to remain after the project is completed) shall be at a minimum ASTM Type III sheeting, unless otherwise shown on the Plans.

HIGHWAY PARKING RESTRICTIONS. Only such trucks and equipment as are necessary for the construction of this project will be permitted to stop or park on the shoulders or right-of-way of the highway. All trucks or equipment so stopped or parked shall be at least 4 feet from the edge of the thru traffic lanes. Parking or stopping on the traveled portion of the roadway will not be permitted unless authorized by the Engineer to meet field conditions.

Private automobiles or workers will not be permitted to stop or park on the shoulders or right-of-way of the highway.

Each of the Contractor's trucks or equipment used for the construction of this project and permitted to park or stop as provided above shall be equipped with flashing light signals on the front and rear and the signals shall be operating at all times when parked or stopped on the highway unless otherwise authorized by the Engineer.

The flashing light signals shall be visibly distinct from and physically separate from the hazard warning system required by Federal and State motor vehicle laws and

Special Provisions

regulations. At least one of these flashing light signals shall be visible to traffic approaching from any angle at all times.

Qualified traffic control personnel shall be employed whenever the Contractor's vehicles or equipment (including that which belongs to the individual workers) enter or leave the traffic flow. All movement, in or out of the traffic flow, shall be with the flow of traffic.

SECTION 101 – DEFINITIONS

101.02, DEFINITIONS, are hereby modified by deleting the existing following definitions and replacing as follows:

<u>ACTUAL COMPLETION DATE</u> – Date noted in the Completion and Acceptance memorandum on which designated responsible Municipal personnel have reviewed the project and determined that all Contract work is complete and all Contract requirements have been met, generally considered to be the last day the Contractor performed physical work on any contract item.

<u>AGENCY</u> – Wherever the word Agency appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean; the Town of Williston, except when referenced to documents or publications.

BOARD – Wherever the term Board or Transportation Board appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean; the Transportation Board of the State of Vermont or its successor.

<u>CALENDAR DAY</u> – Any day shown on the calendar, beginning and ending at midnight.

<u>CHANGE ORDER</u> – A document recommended by the Engineer, signed by the Contractor and the Municipality, and approved by the Agency of Transportation authorizing changes in the plans or quantities or both, establishing the basis of payment and time adjustments for the Work affected by the changes.

<u>CHIEF OF CONTRACT ADMINISTRATION</u> – Wherever the term Chief of Contract administration appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean, the Municipal Project Manager.

<u>CONSTRUCTION ENGINEER</u> – Wherever the term Construction Engineer appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean; the Municipal Project Manager and/or Full Time Employee in Responsible Charge.

<u>COMPLETION</u> – Completion of the project occurs when the Contractor has completed all work required by the Contract and has satisfactorily executed and

Lamplite Acres TAP TA17(8)

Special Provisions

delivered to the Engineer all documents, certificates and proofs of compliance required by the contract.

<u>CONTRACT</u> – The written agreement between the Municipality and a contractor setting out the obligations of the parties to the contract for the performance of the work described therein.

<u>CONTRACT BOND(S)</u> – The approved forms of security signed and furnished by the contractor and the contractor's surety or sureties, guaranteeing signatures on the contract, performance of and compliance with the contract, and the payment of all legal debts pertaining to the construction of the contracted project.

<u>CONTRACTOR(S)</u> – An entity that has Annual Prequalification status and/or an entity that has a contract with the Municipality to perform construction work, including but not limited to an individual, partnership, firm, organization, association, corporation, or joint venture; a representative, trustee, or receiver of a contractor appointed by any court of competent jurisdiction.

DIRECTOR OF PROJECT DEVELOPMENT – Wherever the terms Director of Project Development, director of Engineering and Construction, Director of Construction and Maintenance, Director, or Chief Engineer appear on the plans, in any specification, or in the Contract, they shall be read as and shall mean; the Chief Engineer of the Agency of Transportation.

DIRECTOR OF PROGRAM DEVELOPMENT – Wherever the term Director of Program Development appears on the plans, in any specification, or in the contract it shall read as, and shall mean; the Chief Engineer of the Agency of Transportation.

ENGINEER – Wherever the term Engineer appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean; the Resident Engineer (RE).

<u>FINAL ACCEPTANCE DATE</u> – Wherever the term Final Acceptance Date appears on the plans, in any specification, or in the Contract, it shall mean the date that the Municipality signs the Final Completion Certificate.

<u>GENERAL SPECIAL PROVISIONS</u> – Approved additions and revisions to the Standard Specifications for Construction.

MATERIALS AND RESEARCH ENGINEER – Whenever the term Materials and Research Engineer appears on the plans, in any specification, or in the Contract, it shall be read as, and shall mean; Stantec Consulting, Inc.

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PROPOSAL FORM – Whenever the term Proposal Form appears on the plans, in any specification, or in the Contract it shall be read as, and shall mean; the BID FORM unless specifically referenced otherwise in these Special Provisions.

<u>REGIONAL CONSTRUCTION ENGINEER</u> – Whenever the term Regional Construction Engineer appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean; the Director of Public Works.

<u>RESIDENT ENGINEER</u> – An entity employed by the Municipality to perform supervisory duties including the oversight of testing services on the project.

<u>SECRETARY</u> – Wherever the term Secretary appears on the plans, in any specification, or in the contract it shall be read as, and shall mean; the Williston Selectboard.

<u>SPECIAL PROVISIONS</u> – Additions and revisions to the Standard Specifications for Construction, Supplemental Specifications, General Special Provisions, Plans, or other documents that are part of a particular contract.

<u>SPECIFICATIONS</u> – The compilation of provisions and requirements for the performance of prescribed work including the Standard Specifications for Construction, Supplemental Specifications, General Special Provisions, Special Provisions, Plans, and other documents that are part of a particular contract.

STANDARD SPECIFICATIONS – The Vermont Agency of Transportation book entitled <u>Standard Specifications For Construction</u> and the specifications included therein, as approved for general and repetitive use and application in Agency/Municipal projects.

<u>STATE</u> – Wherever the term State appears on the plans, in any specification, or in the contract, it shall be read as, and shall mean; the Williston Selectboard.

<u>SURETY</u> – An individual or legal entity acceptable to the Town executing the bond or bonds furnished by the bidder or contractor.

WORK – The furnishing of all labor, materials, equipment, and incidentals necessary or convenient to the successful completion of a project and the carrying out of all duties and obligations imposed by a contract.

WORKING DAY – A calendar day during which normal construction operations could proceed for a major part of the daylight hours, and specifically excluding Saturdays, Sundays, and those days of the standard work week on which holidays are celebrated.

ADD TO DEFINITION LIST IN 101.02, DEFINITIONS, the following definitions:

ADDENDUM (addenda) – Contract revisions developed after advertisement and before opening bids.

<u>ADVERTISEMENT</u> – A public announcement, inviting bids for work to be performed or materials to be furnished.

<u>AGREEMENT</u> – The written instrument which is evidence of the agreement between the Municipality and the Contractor.

AWARD – The formal acceptance by the Municipality of a bid.

<u>BID</u> – The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

<u>BID BOND</u> – A bid guarantee as outlined in the Instructions to Bidders for Contracts.

<u>BIDDER</u> – The individual, partnership, firm, corporation, or any combination thereof, or joint venture, submitting a Bid in accordance with the bidding requirements.

<u>CONTRACT TIME</u> – The time allowed for completion of the contract including authorized time extensions.

INCIDENTAL AND INCIDENTAL ITEM – These terms are used to indicate work for which no direct payment will be made. Such work is considered to be incidental to items having contract prices, and the bid prices submitted by the contractor shall be sufficient to absorb the cost of all work designated as incidental or as incidental items.

INVITATION FOR BIDS – An advertisement for receiving bids for all work and/or materials on which bids are invited from prospective contractors.

MUNICIPAL PROJECT MANAGER – A person or firm employed or appointed by the Municipality to provide administrative services for the project.

NOTICE OF AWARD – The written notice of the acceptance of the Bid from the Owner to the successful Bidder.

OWNER – Town of Williston.

PREQUALIFICATION:

<u>Annual Prequalification</u> – The Agency of Transportation process by which an entity is generally approved to bid on contracts advertised by the

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Local Project Sponsor. Depending on the project size annual prequalification may be the only prequalification necessary.

<u>**Contract Specific Prequalification**</u> – The process by which an entity is approved to bid on a specific contract determined by the Municipality to be of a size or scope to warrant more than an Annual Prequalification.

PREQUALIFICATION ADMINISTRATOR – An Agency of Transportation employee charged with administration of the prequalification process for the Prequalification Committee.

<u>PROPOSAL</u> – The offer of a bidder, on the prescribed form, to perform work and/or provide materials at the price quoted in the offer.

PROPOSAL FORM – The prescribed form on which the Municipality requires the Bid be submitted.

PROPOSAL GUARANTEE – The security furnished with a bid to ensure that the bidder will enter into a contract if the bidder's proposal is accepted by the Municipality.

<u>SUBCONTRACTOR</u> – An individual or legal entity to which the contractor sublets a part of the work included in the contract.

TESTING FIRM – An independent firm employed by the Municipality or Resident Engineer to perform all sampling and testing of materials as specified in the Contract Documents and as defined in the VTrans Qualified Laboratory Program.

SECTION 105 CONTROL OF THE WORK

105.09 CONSTRUCTION STAKES, Part (a) Initial Layout, (b) Layout of Subgrade and (c) Permanent Marking Layout delete these paragraphs in their entirety and replace with the following:

Horizontal and vertical control information for the project is shown on the project plans or shall be based on existing conditions. The information is sufficient to enable the Contractor to stake the project. The Contractor shall perform all staking requirements for the proposed work. The Contractor will be responsible for the accuracy and preservation of the staking.

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Special Provisions

<u>**105.20 CLAIMS FOR ADJUSTMENT</u></u>, (c) Claims Procedure;** Delete the second, third and fourth sentence and replace with the following:</u>

-Claims must be evaluated first by the Engineer and then by the Municipal Project Manager. Should a claim be ruled in favor of the Contractor, it will be allowed, in whole or in part, and paid as provided in the Contract. Should a claim be denied in whole or in part by the Municipal Project Manager the Contractor may appeal to the governing body of the project sponsor. Should a claim be denied in whole or in part by the governing body of the project sponsor, the Contractor may appeal to the Chief Engineer.

(d) Claims Documentation Requirements; In the first sentence, replace Construction Engineer with Municipal Project Manager.

SECTION 106 - CONTROL OF MATERIAL

106.03 SAMPLES AND TESTS, Add the following two paragraphs to the beginning:

An independent firm employed by the Municipality or Resident Engineer to perform all sampling and testing of materials as specified in the Contract Documents and as defined in the VTrans Qualified Laboratory Program, shall be responsible for all acceptance sampling and testing of materials and completed work.

The Contractor shall be responsible for their Quality Control. The cost of their Quality Control shall be considered incidental to the payment items in the bid. Any sampling, testing, retesting, and submission of reports and certifications by the Contractor as required by the contract documents and plans shall be considered incidental to the payment items in the bid.

Change the last word in the first paragraph from Agency to Municipality.

Delete the first sentence of the second paragraph and replace with the following:

Samples will be taken and testing performed by certified personnel of the testing firm in accordance with the requirements of the latest edition of the Vermont Agency of Transportation's Quality Assurance Program and Material Sampling Manual.

Modify the last sentence of the third paragraph to read as follows:

Copies of all test results shall be forwarded directly to the Resident Engineer and the Contractor by the testing firm.

HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES

1. <u>DESCRIPTION</u>. This work shall consist of the placement of one or more courses of bituminous concrete material by hand (nonmechanical) methods on a prepared foundation in conformance with the Plans or as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans and Section 406 or Section 490 of the Standard Specifications, as appropriate.

2. <u>GENERAL</u>. This work will include only that bituminous concrete material placed by hand methods as required at public and/or private drives and permitted drives (such as field drives for agriculture) measured from the outside edge of shoulder to the outside limit of drive, within the project limits as identified in the Plans or as directed by the Engineer. Bituminous concrete material placed by mechanical methods at these locations is excluded.

All other bituminous materials placed within the project limits, whether by hand or mechanical methods, shall be pair for under the appropriate Contract pay item for bituminous mix, or as otherwise specified in the Contract Documents.

3. <u>MATERIALS</u>. Materials shall meet the requirements of the following Subsections:

Subbase, RAP
Performance Grade Asphalt Binder702.02
Emulsified Asphalt702.04
Crushed Gravel for Subbase704.05
Aggregate for Surface Course and Shoulders
Aggregate Shoulders, RAP704.12(b)

Bituminous concrete material of the type specified in the Contract or as Specified by the Engineer shall meet the requirements of Section 406 or Section 490, as applicable. For the purpose of this Section, bituminous concrete material to be used shall be of the type specified in the Contract or, by default, of a matching material to that adjacent material placed by mechanical methods.

The grade of PG asphalt binder used to produce bituminous concrete pavement shall be any grade currently certified for use on an Agency project and approved by the Engineer.

4. <u>CONSTRUCTION REQUIREMENTS</u>. The existing surface and/or bed (subbase) upon which the bituminous concrete material is to be placed shall be compacted to the line, grade, and shape shown on the Plans or as direct by the Engineer. All vegetation and soft, yielding, or unsuitable material shall be excavated and replaced with properly compacted material meeting the requirements of

Lamplite Acres TAP TA17(8) Special Provisions

Section 301 for Subbase of Crushed Gravel, Fine Graded. Crushed RAP generated from the project may be substituted for Subbase of Crushed Gravel, Fine Graded.

The existing edge of pavement shall be saw cut to provide a vertical edge for placing the hand-placed bituminous concrete material.

Emulsified asphalt shall be applied uniformly and completely to all vertical and horizontal surfaces to be paved. All surfaces shall be free of moisture, dust, and debris prior to applying emulsified asphalt.

If cross slope allows, as determined by the Engineer, existing paved drives shall be cold planed the entire drive width to the depth of the wearing course, not to exceed 2 inches. Unless the drive is to be paved that day, all cold planed vertical edges shall have temporary fillets placed the same day as cold planing takes place.

All existing paved drives shall have all temporary fillets removed; any existing joints, cracks, and holes cleaned; all vertical and horizontal surfaces to be paved coated with emulsified asphalt; all holes filled with bituminous concrete material compacted to the level of the existing surface; and be thoroughly cleaned and dried prior to any hand placed bituminous concrete material being placed.

Hand-placed bituminous concrete material shall be rolled with a 1 ton mechanical roller with steel drums, or approved equal, until compacted to the satisfaction of the Engineer.

- 5. <u>METHOD OF MEASUREMENT</u>. The quantity of Special Provision (Hand-Placed Bituminous Concrete Material, Drives) to be measured for payment will be the number of square yards complete in place in the accepted work.
- 6. <u>BASIS OF PAYMENT</u>. The measured quantity of Special Provision (Hand-Placed Bituminous Concrete Material, Drives) will be paid for at the Contract unit price per square yard. Payment shall be full compensation for furnishing, mixing, hauling, placing, compacting, and finishing the material specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Emulsified asphalt used as specified and backfill material meeting the requirements specified in the Plans will be considered incidental to Special Provision (Hand-Placed Bituminous Concrete Material, Drives).

When not specified for payment under separate Contract item(s), the costs of placing subbase material, cleaning existing paved surfaces, including power equipment, and for filling joints, cracks, and holes will not be paid for directly, but will be considered incidental to Special Provision (Hand-Placed Bituminous Concrete Material, Drives).

Payment will be made under:

Lamplite Acres TAP TA17(8) Special Provisions

Pay

Pay Item

Unit

900.675 Special Provision (Hand-Placed Bituminous Square Yard Concrete Material, Drives)

900.640 SPECIAL PROVISION (15" Perforated CPEP(SL))

1. <u>DESCRIPTION</u>. This work shall consist of furnishing and placing underdrain pipe in a stone lined trench as shown in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans and Sections 605, 629 and 649 of the Standard Specifications.

- 2. <u>CONSTRUCTION REQUIREMENTS</u>. Underdrain installation shall be performed in accordance with the Plans and Section 605. perforated? (typ)
- 3. <u>METHOD OF MEASUREMENT</u>. The quantity of Special Provision (15"♥ CPEP(SL)) to be measured for payment will be the number of linear feet installed in the complete and accepted work. When it is necessary to cut underdrain in the field, the quantity of underdrain to be measured for payment will be the length necessary, rounded to the next whole 2-foot increment.
- 4. <u>BASIS OF PAYMENT</u>. The accepted quantity of Special Provision (15" CPEP(SL)) will be paid at the Contract unit price per linear foot.

Payment will be full compensation for fabricating, furnishing, transporting, handling, and placing the material specified including coupling bands and fittings, geotextile, drainage aggregate, and backfill; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Excavation for Special Provision (15" $\mbox{CPEP(SL)})$ will be paid for as Trench Excavation of Earth.

Payment will be made under:

Pay ItemPay Unit900.640Special Provision (15" Perforated CPEP(SL))Linear Foot

TRAFFIC CONTROL, ALL-INCLUSIVE

1. <u>DESCRIPTION</u>. This work shall consist of establishing and maintaining traffic control measures to protect the traveling public and construction operations as indicated in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 641 of the Standard Specifications.

- 2. <u>SUBMITTALS</u>. The Contractor shall submit to the Project Manager for acceptance a site-specific traffic control plan in accordance with Subsection 105.03. The traffic control plan shall conform to the requirements of the MUTCD and all applicable Agency Standard Drawings. Where conflicts exist, the MUTCD will govern. Each phase of construction shall be included in the submitted traffic control plan. The Contractor shall allow the Agency 14 calendar days to review and respond to the proposed traffic control plan. Field operations will not commence until the submittal has been accepted.
- 3. TRAFFIC CONTROL DEVICES. Temporary traffic barrier shall meet the requirements of Section 621. Traffic control devices shall meet the requirements of Section 641.
- 4. <u>METHOD OF MEASUREMENT</u>. The quantity of Special Provision (Traffic Control, All-Inclusive) to be measured for payment will be on a lump sum basis for providing traffic control in the complete and accepted work.

If they are used on the project, the quantities for Uniformed Traffic Officers, Flaggers, and Portable Changeable Message Signs will be measured separately in accordance with Sections 630 and 641.

5. <u>BASIS OF PAYMENT</u>. The accepted quantity of Special Provision (Traffic Control, All-Inclusive) will be paid for at the Contract lump sum price.

Partial payments will be made as follows:

(a) The first 15% of the Contract lump sum price will be paid upon approval of the Contractor's traffic control plan.

(b) The remaining 85% of the Contract lump sum price will be paid on a prorated basis for the estimated duration of the Contract work remaining.

Payment will be full compensation for preparing, implementing, inspecting, maintaining, and removing the applicable traffic control plan and required traffic control devices, including but not limited to temporary traffic barriers, temporary pavement markings, and signing; and for furnishing all labor, tools, materials, equipment, and incidentals necessary to complete the work.

Lamplite Acres TAP TA17(8) Special Provisions

If used on the project, Uniformed Traffic Officers, Flaggers and Portable Changeable Message Signs will be paid for separately under Contract items 630.10, 630.15, and 641.15 or 641.17 as applicable, respectively.

Payment will be made under:

Pay Item

Pay Unit

900.645 Special Provision (Traffic Control, Lump Sum (All-Inclusive)

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STATE OF VERMONT AGENCY OF TRANSPORTATION

November, 1985 CA-109

CONTRACTOR'S EEO CERTIFICATION FORM

Certification with regard to the Performance of Previous Contracts of Subcontracts subject to the Equal Opportunity Clause and the filing of Required Reports.

The bidder _____, proposed subcontractor ______, hereby certifies that he/she has ______, has not ______, participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246 as amended, and that he/she has ______, has not ______, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Company

By

Title

NOTE: The above certification is required by the Equal Employment Opportunity regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5 (Generally only contracts or subcontracts of \$10,000 or under are exempt.) Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7 (b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration, or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

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APPENDIX B

Debarment & Non-Collusion Affidavit CA-91 Page left intentionally blank

STATE OF VERMONT AGENCY OF TRANSPORTATION DEBARMENT AND NON-COLLUSION AFFIDAVIT

I,	, representing
(Official Aut	horized to Sign Contracts)
	on) of, (City or State)
(Individual, Partnership or Corporation	on) (City or State)
the United States that on behalf of the per that such person, firm, association, or c	r the penalties of perjury under the laws of the State of Vermont and rson, firm, association, or corporation submitting the bid certifying orporation has not, either directly or indirectly, entered into any r otherwise taken any action, in restraint of free competitive bidding e Vermont project:
	(Project Name)
	project located on
(Project Number)	project located on, (Route or Highway)
bids opened at	
	(Town or City)
Vermont on, 20 (Date)	
the United States that except as noted associated therewith in any capacity is r suspended, debarred, voluntarily excluded have a proposed suspension, debarment, not been indicted, convicted, or had a civil	the penalties of perjury under the laws of the State of Vermont and below said individual, partnership or corporation or any person not currently, and has not been within the past three (3) years, d or determined ineligible by any Federal or State Agency; does not voluntary exclusion or ineligibility determination pending; and has judgement rendered against (it, him, her, them) by a court having r official misconduct within the past three (3) years.
Exceptions:No	Yes. (If yes complete back of this form.)
Sworn to before me this	
day of, 20	L.S. (Name of Individual, Partnership or Corporation)
	L.S. (Signature of Official Authorized to Sign Contracts)
(Notary Public)	L.S (Name of Individual Signing Affidavit)
(My commission expires)	L.S (Title of Individual Signing Affidavit)

CA-91

APPENDIX B

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted, indicate below to whom it applies, initiating agency, and dates of action. Providing false information may result in criminal prosecution or administration sanctions.

EXCEPTIONS:

Required Contract Provisions for Federal-Aid Construction FHWA-1273 Page left intentionally blank

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
 X. Compliance with Governmentwide Suspension and
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid designbuild contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-thejob training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and nonminority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on <u>Form FHWA-1391</u>. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-ofway of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federallyassisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency...

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract. (3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30. d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated

damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

 the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

T h is p r o v i s i o n i s applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

T h is p r o v i s i o n i s applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federalaid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

 Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<u>https://www.epls.gov/</u>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

APPENDIX D

Standard Federal EEO Specifications CA-26

CA-26

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

- 1. As used in these specifications:
 - a. "Covered Area" means the geographical area described in the solicitation from which this contract resulted.
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority.
 - c. "Employer Identification Number" means the Federal Social Security Number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

A Minority Group Member is:

...American Indian or Alaskan Native

consisting of all persons having origins in any of the original people of North American and who maintain cultural identification through tribal affiliations or community recognition.

...Black

consisting of all persons having origins in any of the Black racial groups of Africa.

...Asian or Pacific Islander

consisting of all persons having origins in any of the original people of the Far East, Southeast Asia, the Indian Sub-Continent or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippines and Samoa.

...Hispanic

consisting of all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin.

...Cape Verde an

consisting of all persons having origins in the Cape Verde Islands.

...Portuguese

consisting of all persons of Portuguese, Brazilian or other Portuguese culture or origin.

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000.00 the provisions of these specifications and the notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

- 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in the Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontract participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. the overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure to make good faith efforts to achieve the Plan goals and timetables.
- 4. The Contractor shall implement the specific affirmative action standards provided in Paragraphs 7a through p of these specifications. The goals set for the Contractor in the solicitation from which this contract resulted are expressed as percentages in the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.
- 5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minority or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available and maintain a record of the organizations' responses.

- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notifications to the Regional Director when the union or unions, with which the Contractor has a collective bargaining agreement, have not referred to the Contractor a minority person or woman sent by the Contractor or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under Paragraph 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, Supervisors etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, and providing written notification to, and discussing the Contractor's EEO policy with, other Contractors and subcontractors with whom the Contractor anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notifications to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- I. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment-related activities to ensure that the EEO policy and Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (Paragraph 7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under Paragraph 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's non-compliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is under-utilized).

- 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.
- 11. The Contractor shall not enter into any subcontract with any person for firm debarred from Government contracts pursuant to Executive Order 11246.
- 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, terminations and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in Paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
- 14. The Contractor shall designate a responsible official to monitor all employment-related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the <u>name</u>, address, telephone numbers, construction trade union affiliation if any, employee identification number when assigned, <u>social security number</u>, race, sex, status (e.g., mechanic, apprentice, trainee, helper or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application or requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

NOTICE OF REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Economic Areas	Timetables	Goals for Minority participation for each trade (%)	Goals for Female Participation in each trade (%)
Entire State of Vermont:			
<u>Vermont</u> 003 Burlington, VT Non-SMSA Counties NH Coos; NH Grafton: NH Sullivan; VT Addison; VT Caledonia; VT Chitten- den; VT Essex; VT Frank- lin; VT Grand Isle; VT Lamoille; VT Orange; VT Orleans; VT Rutland; VT Washington; VT Windsor	Indefinite	0.8	6.9
<u>Connecticut</u> (Mass) 006 Hartford - New Haven Springfield, CT-MA Non-SMSA Counties CT Litchfield; CT Windham; MA Franklin; NH Cheshire; VT Windham	Indefinite	5.9	
<u>New York</u> 007 Albany - Schnec- tady - Troy, NY Non-SMSA Counties NY Clinton; NY Columbia; NY Essex; NY Fulton; NY Greene; NY Hamilton; NY Sohoharie; NY Warren; NY Washington; VT Bennington	Indefinite	2.6	

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulation in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3 (a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notifications shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; and the geographical area in which the subcontract is to be performed.
- 4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any)

APPENDIX E

Certification for Federal Aid Contracts CA-163

CERTIFICATION FOR FEDERAL-AID CONTRACTS

The prospective bidder, by signing and submitting this bid proposal, certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person or influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered to. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub-recipients shall certify and disclose accordingly.

APPENDIX F

Vermont Minimum Labor & Truck Rates CA-101

APPENDIX F

CA101

Minimum Labor and Truck Rates Under Title 19, Vermont Statutes Annotated Section 18, as amended April 3, 1997 Sheet 1 of 1

STATE OF VERMONT AGENCY OF TRANSPORTATION MONTPELIER

<u>FOR OTHER THAN FEDERAL-AID.</u> In accordance with the provisions of Title 19, VSA, Section 18, the following minimum rate for labor shall apply to this project:

The minimum wage for common labor will not be less than the State or Federal minimum wage, whichever is higher.

ON FEDERAL-AID PROJECTS ONLY.

The minimum rates for labor for Federal-Aid Projects shall be those set in the Wage Determination Decision of the U.S. Secretary of Labor for each project in accordance with the Federal-Aid Highway Act of 1956. When such wage rates are required they shall be included in the proposal. In the event these rates are lower than the Vermont rates, the Vermont rates shall prevail.

<u>TRUCK RATES.</u> In accordance with the provisions of Title 19, VSA, Section 18, the following minimum rates for trucks shall apply to this project:

Trucks, not Including Driver	Minimum Rates
Water Level Body Capacity	<u>Per YD per Hr.</u>

Trucks, Equipment Loaded

\$1.65

APPENDIX G

Vermont Agency of Transportation Contractor Workforce Reporting Requirements CA-26A

VERMONT AGENCY OF TRANSPORTATION CONTRACTOR WORKFORCE REPORTING REQUIREMENTS

The Contractor/Subcontractor shall submit to the State Resident Engineer assigned to this project, monthly and cumulative workforce information, on reporting forms provided herein. The monthly and cumulative workforce information shall be listed by construction trade category with the percentage of minority and female project hours in each category indicated. Failure to provide this information to the Resident Engineer on a monthly basis will result in suspension of bi-weekly progress payments, or part thereof due under the contract, until such time as the Contractor or Subcontractor demonstrates compliance with these contract terms.

Note: In lieu of using the reporting forms provided herein, the Contractor may use U.S. Department of Labor form CC-257, "Monthly Employment Utilization Report".

APPENDIX H

Disadvantaged Business Enterprise (DBE) Policy Contract Requirements CA-110

DISADVANTAGED BUSINESS ENTERPRISE (DBE) POLICY CONTRACT REQUIREMENTS

Disadvantaged Business Enterprise (DBE) Policy. It shall be the policy of the Vermont Agency of Transportation (VTrans) to ensure nondiscriminatory opportunity for Disadvantaged Business Enterprises (DBEs) to participate in the performance of all contracts and subcontracts financed with Federal funds as specified by the regulations of the United States Department of Transportation (USDOT), Federal Highway Administration and as set forth below.

- 1. <u>Policy</u>. It is the policy of USDOT that DBEs as defined in 49 Code of Federal Regulation (CFR) Part 26 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal funds. Consequently, the DBE requirements of 49 CFR Part 26 and 23 CFR, Chapter 1, Part 230, Subpart b apply to this contract.
- 2. <u>DBE Obligation</u>. The State and its Contractors agree to ensure that DBEs as defined in 49 CFR Part 26, have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds. Each subcontract the prime contractor signs with a subcontractor must include this assurance: The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of USDOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as VTrans deems appropriate.
- 3. <u>Sanctions for Noncompliance</u>. The Contractor is hereby advised that failure of the Contractor, or any Subcontractor performing work under this contract, to carry out the requirements set forth in paragraphs 1 and 2 above shall constitute a breach of contract and after the notification of the Vermont Agency of Transportation, Secretary of Transportation, may result in termination of this contract by the State or such remedy as the State deems necessary.
- 4. <u>Inclusion in Subcontracts</u>. The Contractor shall insert in each of its subcontracts this <u>Disadvantaged Business Enterprise (DBE)</u> Policy and also a clause requiring its subcontractors to include this same Policy in any lower tier subcontracts which they may enter into, together with a clause requiring the inclusion of the Policy in any further subcontract that may in turn be made. This Policy shall not be incorporated by reference.

Disadvantaged Business Enterprise (DBE) Program Goals. The Vermont Agency of Transportation (VTrans) is required to set an overall DBE goal for participation in all transportation related Federal-aid projects. The goal is determined following guidelines set forth in 49 CFR 26.45, and based on the availability of ready, willing and able DBEs who submitted bids and quotes for transportation related projects, compared as a percentage of all available contractors who submitted bids and quotes for transportation related to take into account other factors impacting DBE utilization, in an effort to narrowly tailor the overall DBE goal. The detailed goal setting methodology and current overall DBE goal may be viewed on the VTrans Civil Rights website.

VTrans currently utilizes a race/gender neutral policy to fulfill its overall DBE goals, and relies on the voluntary participation of contractors to utilize certified DBEs on every project sufficient to obtain the Agency's overall DBE goal. In order for this practice to continue, contractors must be proactive and solicit bids and quotes from certified DBEs for use when submitting their own bids, and employ certified DBEs when participating on transportation related projects. Otherwise, VTrans may have to implement specified contract goals on projects to ensure the overall DBE goals are met. VTrans may include specific DBE contract goals in certain cases to ensure DBE participation, if failure to obtain the project DBE goal would negatively impact the Agency's overall DBE goal because of the size of the contract.

Disadvantaged Business Enterprise (DBE) Definition. A DBE is defined as a business that is owned and controlled by one or more socially and economically disadvantaged person(s). For the purposes of this definition:

- (1) "Socially and economically disadvantaged person" means an individual who is a citizen or lawful permanent resident of the United States and who is a Woman, Black, Hispanic, Portuguese, Native American, Asian American, or a member of another group, or an individual found to be disadvantaged by the Small Business Administration pursuant to Section 3 of the Small Business Act.
- (2) "Owned and controlled" means a business which is:
 - a. A sole proprietorship legitimately owned and controlled by an individual who is a disadvantaged person.
 - b. A partnership, joint venture or limited liability company in which at least 51% of the beneficial ownership interests legitimately is held by a disadvantaged person(s).
 - c. A corporation or other entity in which at least 51% of the voting interest and 51% of the beneficial ownership interests legitimately are held by a disadvantaged person(s).

The disadvantaged group owner(s) or stockholder(s) must possess control over management, interest in capital, and interest in earnings commensurate with percentage of ownership. Disadvantaged participation in a joint venture must also be based on the sharing of real earnings, as above. If the disadvantaged group ownership interests are real, substantial and continuing and not created solely to meet the requirements of the program, a firm is considered a bona fide DBE.

Certified DBE Directory. The current Vermont Unified Disadvantaged Business Enterprise (DBE) Directory is available online at VTrans Civil Rights website . This directory contains all currently certified DBEs available for work in Vermont, and is updated continuously. Only firms listed in this directory are eligible for DBE credit on Vermont Federal-aid projects. If you have questions about DBE certification, or do not have access to the Internet, please call the DBE Program Manager at (802) 828-5858 for assistance.

Counting DBE Participation Towards Project Goals. In order for payments made to DBE contractors to be counted toward DBE goals, the DBE contractors must perform a commercially useful function (CUF). The DBE must be responsible for execution of the work of the contract and must carry out its responsibilities by actually performing, managing, and supervising the work involved, consistent with standard industry practices.

This means that:

- The DBE must also be responsible for ordering its own materials and supplies, determining quantity and quality, negotiating price, installing (where applicable) and paying for the material itself;
- The DBE must perform work commensurate with the amount of its contract;
- The DBE's contribution cannot be that of an extra participant or a conduit through which funds are passed in order to obtain the appearance of DBE participation;
- The DBE must exercise responsibility for at least fifty percent of the total cost of its contract with its own workforce;
- None of the DBE's work can be subcontracted back to the prime contractor, nor can the DBE employ the prime's or other subcontractor's supervisors currently working on the project;
- The DBE's labor force must be separate and apart from that of the prime contractor or other subcontractors on the project. Transferring crews between primes, subcontractors, and DBE contractors is not acceptable;
- The DBE owner must hold necessary professional or craft license(s) or certification(s) for the type of work he/she performs on the project;
- The DBE may rent or lease, at competitive rates, equipment needed on the project from customary leasing sources or from other subcontractors on the project.

Allowable credit for payments made to DBEs for work performed. A contractor may take credit for payments made to a certified DBE that satisfies CUF requirements at the following rate:

- A DBE Prime Contractor: Count 100% of the value of the work performed by own forces, equipment and materials towards the DBE goals.
- An approved DBE subcontractor: Count 100% of the value of work performed by the DBE's own forces, equipment and materials, excluding the following:
 - The cost of materials/supplies purchased from a non-DBE Prime Contractor.
 - The value of work provided by non-DBE lower tier subcontractors, including non-DBE trucking to deliver asphalt to a DBE contractor.
- A DBE owner-operator of construction equipment: Count 100% of expenditures committed.
- A DBE manufacturer: Count 100% of expenditures committed. The manufacturer must be a firm that operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the Contractor.
- A regular DBE dealer/supplier: Count 60% of expenditures committed. A regular dealer/supplier is defined as a firm that owns, operates, or maintains a store, warehouse or other establishment, in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. A person may be a dealer in such bulk items as petroleum products, steel, cement, gravel, stone or asphalt without owning, operating or maintaining a place of business, if the person both owns and operates distribution equipment for the products, by the means of a long term agreement, and not by a contract by contract basis.
- A DBE broker: Count for DBE credit only the fees or commissions charged for assistance in the procurement, and, fees and transportation charges for the delivery of materials or supplies required at the job site, but not the cost of materials procured. A broker is defined as any person(s) or firm who arranges or expedites transactions for materials or supplies, and does not take physical possession of the materials or supplies at their place of business for resale.
- A DBE renter of construction equipment to a contractor: Count 20% of expenditures committed, with or without operator.

- A bona fide DBE service provider: Count 100% of reasonable fees or commissions. Eligible services include professional, technical, consultant, or managerial, services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies required for the performance of the contract. Eligible services also include agencies providing bonding and insurance specifically required for the performance of the contract.
- A trucking, hauling or delivery operation: Count 100% of expenditures committed when trucks are owned, operated, licensed and insured by the DBE and used on the contract and, if applicable, includes the cost of the materials and supplies. 100% of expenditures committed when the DBE leases trucks from another DBE firm including an owner-operator. 100% of reasonable fees, or commissions, the DBE receives as a result of a lease arrangement for trucks from a non-DBE, including an owner-operator.
- Any combination of the above.

Removal of Approved DBE From Transportation Related Project. Contractors may not terminate for convenience, any approved DBE subcontractor and perform the work with their own forces, without prior written consent from the VTrans DBE Program Manager or VTrans Chief of Civil Rights.

Federal-aid projects which specify a DBE contract goal. The provisions of the Vermont Agency of Transportation Supplemental Specification – Disadvantaged Business Enterprise (DBE) Utilization (CA 160) shall apply to all VTrans Federal-aid projects which specify a DBE contract goal.

Compliance With Prompt Payment Statute. In accordance with Vermont's Prompt Payment Act and VTrans Standard Specifications for Construction, Section 107.01(g), the Contractor shall fully comply with the provisions of 9 V.S.A. Chapter 102, also referred to as Act No. 74 of 1991 or the Prompt Payment Act, as amended.

Subcontractor Payments. In accordance with VTrans Standard Specifications for Construction, Section 107.01(h), on all federal-aid and state funded contracts, the Contractor, during the life of the Contract and on a monthly basis, shall submit electronically, a listing of payments to subcontractors on the form specified by the State and made available at the VTrans Civil Rights website. Electronic reports shall be filed with the Agency Office of Civil Rights by an authorized representative and received in the Agency Office of Civil Rights on or before the tenth working day after month end. Contractors without access to the internet shall obtain and submit manual reports to the Agency Office of Civil Rights. Manual reports shall be signed by an authorized representative, sent to the Agency Office of Civil Rights, and postmarked on or before the tenth working day after month end. There shall be no direct compensation allowed the Contractor for this work, but the cost thereof shall be included in the general cost of the work. In accordance with 9 V.S.A. Section 4003, notwithstanding any contrary agreement, payments made to subcontractors after seven days from receipt of a corresponding progress payment by the State to the Contractor, or seven days after receipt of a subcontractor's invoice, whichever is later, violate this agreement. Violations shall be reported to the Agency Office of Civil Rights for review. Failure to resolve disputes in a timely manner may result in a complaint made to the Agency Prequalification Committee. In this Committee's judgment, appropriate penalties may be involved for failure to comply with this specification. Penalties may include suspension, reduction or revocation of the Contractor's pre-qualification rating. This clause shall be included in the prime Contractor's Contract made with all if its subcontractors.

APPENDIX I

Vermont Agency of Transportation General Special Provisions for All Projects

GENERAL SPECIAL PROVISIONS FOR ALL PROJECTS 2011 STANDARD SPECIFICATIONS

1. The 2011 Standard Specifications for Construction book and General Special Provisions are hereby modified by deleting all references to material certification requirements.

SECTION 101 - DEFINITIONS AND TERMS

2. <u>101.01 ABBREVIATIONS</u>, is hereby modified by adding the following new abbreviation directly after "ABS":

ACL Advanced Certification List

3. <u>101.01 ABBREVIATIONS</u>, is hereby further modified by adding the following new abbreviation directly after "ANSI":

APL Approved Products List

4. <u>101.01 ABBREVIATIONS</u>, is hereby still further modified by adding the following new abbreviation directly after "CPM":

CPPP Corrugated Polypropylene Pipe

- 5. <u>101.02 DEFINITIONS</u>, <u>HOLIDAYS</u>, is hereby modified by deleting the ninth row in the listing (for "Columbus Day").
- 6. <u>101.02 DEFINITIONS</u>, <u>HOLIDAYS</u>, is hereby further modified by adding the following as the twelfth row in the listing (directly after "Thanksgiving Day"):

Day After Thanksgiving

Fourth Friday in November

SECTION 103 - TAXES AND INSURANCE

7. <u>103.04 INSURANCE REQUIREMENTS</u>, part (e) <u>General Insurance Conditions</u>, is hereby modified by deleting the second paragraph in its entirety.

SECTION 105 - CONTROL OF THE WORK

- 8. <u>105.03 PLANS AND WORKING DRAWINGS</u>, part (a) <u>Contract Plans</u>, is hereby modified by deleting the second paragraph in its entirety.
- 9. <u>105.03 PLANS AND WORKING DRAWINGS</u>, part (a) <u>Contract Plans</u>, is hereby further modified by deleting the first sentence of the third paragraph.
- 10. <u>105.03 PLANS AND WORKING DRAWINGS</u>, part (a) <u>Contract Plans</u>, is hereby still further modified by adding the phrase "in an accessible format" at the end of the third paragraph.
- 11. <u>105.03 PLANS AND WORKING DRAWINGS</u>, part (b) <u>Working Drawings</u>, subpart (4) <u>List of Working Drawings</u>, is hereby modified by deleting the phrase "Roadway, Traffic, and Safety Engineer" and replacing it with the phrase "Project Manager" in the twenty-third row (beginning "641").
- 12. <u>105.14 SUNDAY AND HOLIDAY WORK</u>, part (b) <u>Holidays</u>, is hereby corrected by deleting punctuation "," at the end of the paragraph and replacing it with punctuation ".".

- 13. <u>105.16 LOAD RESTRICTIONS</u>, part (a) <u>General</u>, is hereby modified by being deleted in its entirety and replaced with the following:
 - (a) <u>General</u>. All Contractors, subcontractors, suppliers, or others involved in any project-related activities shall comply with all legal load restrictions specified in Title 23 VSA § 1392 in the hauling of equipment or material on public roads, including that beyond the limits of the project. The application for and possession of any hauling or related permit will not relieve the Contractor or others involved in any project-related activities of any liability that may arise due to any damage resulting from the use or moving of equipment, vehicles, or any other project- related activity.
- 14. <u>105.16 LOAD RESTRICTIONS</u>, part (b) <u>Limitations or Use of Equipment and</u> <u>Vehicles</u>, is hereby modified by being deleted in its entirety and replaced with the following:
 - (b) Limitations on Use of Equipment and Vehicles. Use of equipment and vehicles is subject to the following:
 - (1) No vehicle or equipment exceeding the load restrictions cited in Title 23 VSA § 1392 will be permitted on any structure as defined by the Engineer.
 - (2) The operation of any equipment or vehicle of such mass (weight) or any other project-related equipment loaded so as to cause damage to structures, the roadway, or to any other type of active construction will not be permitted, regardless of the limits set forth in Title 23.
 - (3) Hauling or operation of said vehicles or equipment over any permanent course of any bituminous pavement or any structure during active construction will not be permitted.
 - (4) No loads of any category will be permitted on a concrete pavement or concrete structure prior to expiration of the curing period and until the concrete reaches its specified 28-day compressive strength.
 - (5) Notwithstanding those restrictions above, the Contractor shall be responsible for any and all damages incurred to any public roadway as defined in Title 23 due to the use of any equipment or vehicles related to project activities.
- 15. <u>105.20 CLAIMS FOR ADJUSTMENT</u> is hereby modified by being deleted in its entirety and replaced with the following:

105.20 CLAIMS FOR ADJUSTMENT.

(a) <u>Claims Process - In General</u>. Whenever the Contractor learns that a condition and/or issue may result in costs and/or delays that were not anticipated by the Contractor at the time of bid, the Contractor must provide the Engineer with notice of that fact immediately or as soon as reasonably possible. It is critical that VTrans be aware of potential Claims at the earliest opportunity so that it can carefully monitor the potential additional costs and potentially assist the Contractor in taking steps to mitigate those additional costs. Thus, the Contractor must promptly file a Notice of Intent to File a Claim. If the Contractor later decides to file a Claim for additional compensation under the Contract, that Claim must provide certain key pieces of information to the Construction Engineer so that the Claim can be evaluated expeditiously. If necessary, the Construction Engineer will contact the Contractor for additional information about the Claim, and may request a meeting with the Contractor. The Construction Engineer typically does not invite legal counsel to such meetings unless the Contractor chooses to have its own legal representation at the meeting.

- (b) Notice Procedural Requirements. In order to bring a Claim for additional compensation for costs and conditions not clearly covered under the Contract, the Contractor shall provide written notice ("Notice of Intent to File a Claim for Additional Compensation" or the "Notice") to the Engineer before incurring any costs or conducting any work that could in any way be included in any such Claim for additional compensation under the Contract (the "Claim"). The Engineer's written acknowledgement of receipt of the Notice and the Contractor's daily reporting under this Subsection, shall not be construed as an approval by the Agency of the merits of the Claim.
- (c) <u>Notice Substantive Requirements</u>. The words "Notice of Intent to File a Claim" must appear in large print at the top of the document. The Notice must specify the basis for the Claim, including the nature of the Claim, the reason why the Contractor believes that the Agency is responsible for payment of the Claim, and a description of the additional compensation, including reference to each activity associated with the work and/or materials, including reference to any impacts to the Contractor's Schedule of Work. If the Contractor fails to provide the Notice as specified herein, the Contractor waives its right to bring the Claim under the Contract and the Agency may deny the Claim on this basis alone.
- (d) Notice Documentation Requirements. Upon providing the Notice of Intent to File a Claim, the Project Superintendent shall commence daily records for all labor hours, equipment hours (idle and operating), and materials involved with the work or materials at issue in the Notice and submit such records to the Engineer on a daily basis. ("Daily Records"). Such records must separate the work and/or materials subject to the Claim from the undisputed work, and include a written analysis of how the work and/or materials at issue in the Notice impact(s) the Critical Path. If the Contractor fails to provide such records to the Engineer as required herein, the Contractor waives its right to bring the Claim, and the Agency may deny the Claim on this basis alone.
- (e) <u>Claim Documentation Requirements</u>. The Contractor shall provide the Construction Engineer with the following documentation in support of the Claim ("Claim Documentation"):
 - A detailed statement of the Claim, including all necessary dates, location, and work and material items at issue in the Claim, including copies of the Daily Records;
 - (2) The date on which the Contractor first became aware of the actions or conditions giving rise to the Claim;
 - (3) A copy of the Notice of Intent to File a Claim;
 - (4) A list of the names of all Agency employees and agents,

including consultants, the Contractor believes have knowledge or information concerning the facts giving rise to the Claim;

- (5) A list of the names of all Contractor employees and agents, including Subcontractors, whom the Contractor believes have knowledge or information concerning the facts giving rise to the Claim;
- (6) A list of the specific provisions of the Contract that the Contractor believes support the Claim, and a description of why the Contractor believes those provisions support the Claim;
- (7) A list of all documents and all written statements that the Contractor believes support the Claim, and copies of the same;
- (8) A statement as to whether additional compensation and/or a time extension are being requested in the Claim;
- (9) If a time extension is being requested in the Claim, a statement as to the specific number of days being requested, supported with reference to how the facts underlying the Claim affected the Contractor's performance schedule, including how such facts affected the Critical Path;
- (10) If additional compensation is being requested, an itemized listing of the total amount of any and all costs being sought, in the Claim, listed by category of work, including but not limited to, work items, labor and materials costs, and costs relating to delays associated with performing the work. Such documentation shall include invoices for rented equipment, the *Rental Rate Blue Book* published by EquipmentWatch (the "*Blue Book*") analysis for owned equipment; and Subcontractor agreements.
- For every Claim seeking additional compensation in excess of (11)\$50,000, the Contractor must provide a separate document certifying that the documentation provided in support of the Claim and that the amount of additional compensation sought in the Claim is accurate and that the Contractor has a good faith basis for believing that the Agency is responsible for payment of the Claim (the "Claims Certification"). The Claims Certification shall be notarized and executed by a senior officer of the Contractor with legal authority to bind the Contractor, or if the Contractor is a sole proprietor, by the proprietor. The Claims Certification may be used in any proceeding under the Federal *False* Claims Act (31 U.S.C. § 3729) and/or the Vermont False Claims Act (32 V.S.A § 631).
- (f) <u>Procedure for the Initial Adjudication of Claims</u>. The initial determination of the merits of the Claim shall be made by the Construction Engineer.
 - (1) <u>Completeness Determination</u>. Within 30 Calendar Days of receipt of the Claim, the Construction Engineer shall endeavor to determine whether the Claim Documentation provided by the Contractor meets the requirements of Subsection 105.20(e). Where this 30 Calendar Day period is

unfeasible due to the volume and/or the complexity of the Claim, the Construction Engineer shall inform the Contractor what additional documentation is required and endeavor to keep the Contractor updated as to the status of the Completeness Determination, if necessary, on a quarterly basis. The review and analysis of the merits of the Claim may be postponed pending the Completeness Determination. The Construction Engineer will inform the Contractor, in writing, that the Completeness Determination has been issued.

- (2) <u>Claims Analysis</u>. Once the Construction Engineer has issued the Completeness Determination, the Construction Engineer will begin a principled, merits-based analysis of the Claim ("Initial Claim Judgment" or "ICJ"). The Construction Engineer may seek additional documentation from the Contractor, including but not limited to a full set of the Contractor's original bid preparation package.
 - a. The Construction Engineer may interview employees of the Contractor and Subcontractors, and conduct other interviews or seek additional documents from other entities, including the Agency. The Construction Engineer may also hold an informal hearing with the Contractor to ask any follow-up and clarifying questions, and to give the Contractor a full and fair opportunity to present the merits of the Claim. The Construction Engineer will endeavor to keep the Contractor informed as to the status of the Claim, if necessary, on a quarterly basis.
 - b. The Construction Engineer will make all reasonable efforts to issue, in writing, the Initial Claim Judgment, allowing or denying the Claim, in whole or in part, within 180 Calendar Days of the Completeness Determination. The ICJ shall include findings of fact and conclusions of law with respect to the specific Contractual provisions governing the Claim.
- (g) <u>Appeal to the Chief Engineer</u>. If the Contractor is aggrieved by the ICJ, an appeal may be made to the Chief Engineer.
 - (1) <u>Review</u>. The Chief Engineer will review the ICJ and determine whether additional documents or interviews will be necessary to decide the appeal. The Chief Engineer may interview or reinterview employees of the Contractor and Subcontractors, and conduct other interviews or seek additional documents from other entities, including the Agency. The Chief Engineer may also hold an informal hearing with the Contractor to ask any follow-up and clarifying questions, and to give the Contractor a full and fair opportunity to present the merits of the Claim. The Chief Engineer will endeavor to keep the Contractor informed as to the status of the Claim, if necessary, on a quarterly basis.
 - (2) <u>Decision-Making</u>. The Chief Engineer will make all reasonable efforts to issue, in writing, the Agency's final determination on the merits of the Claim ("Final Claim Judgment" or "FCJ"), as required under Paragraph 9 of the Construction Contract, "Dispute Resolution, Exclusivity of Administrative Remedies," within 180 Calendar Days of the

date of the appeal. The FCJ may affirm the ICJ in whole or in part, or may allow or deny the Claim, in whole or in part, on other grounds. The FCJ shall include findings of fact and conclusions of law with respect to the specific Contractual provisions governing the Claim.

- (3) <u>Quasi-Judicial Appeal</u>. If the Contractor is aggrieved by the FCJ, it may seek appellate review of the FCJ before the Transportation Board pursuant to Subsection 105.02 of the Specifications. The Transportation Board shall defer to the factual findings of the FCJ and review the legal conclusions of the FCJ de novo.
- (h) <u>Time for Claims; Appeals</u>. Notwithstanding any other provision of law, case law, regulation, or the Contract, all Claims by the Contractor shall be submitted in writing within 90 Calendar Days after the Acceptance Date of the Project or within 90 Calendar Days of the Notice of Intent to File a Claim, whichever occurs first, and not thereafter (the "Claim Filing Period"). Such Claims must meet the requirements set forth above, including but not limited to complete documentation supporting the Claim. Any additional time granted by the Construction Engineer because the Claim was incomplete or for the time to produce supplemental information shall not be the subject of any demand for interest payments or for attorneys' fees and/or other costs.

If the Contractor fails to file the Claim within the Claim Filing Period, the Contractor waives its right to bring the Claim. If the disputed work continues to be performed beyond the Claim Filing Period, the Contractor must submit a written request to extend the Claim Filing Period prior to the expiration of the Claim Filing Period. The Contractor shall submit such requests for extension of the Claims Filing Period every 90 Calendar Days until the disputed work is completed. Once the disputed work is complete, the Contractor must submit the complete Claim within the latest approved Claim Filing Period, or 90 Calendar Days from the date the disputed work was completed, whichever is first, and not thereafter.

16. <u>105.26 OPENING WASTE, BORROW, AND STAGING AREAS</u>, part (f), is hereby corrected by deleting punctuation "." at the end of the paragraph.

SECTION 108 - PROSECUTION AND PROGRESS

- 17. <u>108.09 TEMPORARY SUSPENSION OF THE WORK</u>, part (d) <u>Seasonal Closure</u>, is hereby modified by deleting the phrase "of the Engineer, and only under such conditions as specified therein" and replacing it with the phrase "from the Regional Construction Engineer".
- 18. <u>108.09 TEMPORARY SUSPENSION OF THE WORK</u>, part (d) <u>Seasonal Closure</u>, is hereby further modified by adding the following:

Permission will only be granted for work which will result in a direct benefit to the State or the traveling public. Items which may be considered as a benefit include but are not limited to shorter Contract duration, a cost savings, increased safety for the traveling public, and an ability to ensure the quality of work. The Contractor shall request permission in writing, detailing what Contract items may be affected, a schedule of work, and the benefits to the State or traveling public.

- 19. <u>108.11 DETERMINATION OF EXTENSION OF CONTRACT TIME FOR COMPLETION</u>, part (b) <u>Determination of Contract Completion Date Extension</u>, subpart (8), is hereby modified by deleting the phrase ", delays in submittals, errors in submittals, and the Contractor's means and methods of construction".
- 20. <u>108.11 DETERMINATION OF EXTENSION OF CONTRACT TIME FOR COMPLETION</u>, part (b) <u>Determination of Contract Completion Date Extension</u>, subpart (9), is hereby modified by deleting the phrase ", including but not limited to the Contractor's means and methods of construction".
- 21. <u>108.11 DETERMINATION OF EXTENSION OF CONTRACT TIME FOR COMPLETION</u>, part (b) <u>Determination of Contract Completion Date Extension</u>, subpart (11), is hereby modified by being deleted in its entirety and by replacing it with the following.

(11) The days from April 15th to December 1st, inclusive, on which the weather or condition of the ground caused suspension of the work.

22. <u>108.11 DETERMINATION OF EXTENSION OF CONTRACT TIME FOR COMPLETION</u>, part (b) <u>Determination of Contract Completion Date Extension</u>, subpart (13), is hereby modified by adding the following as the first sentence:

Industry-wide material or supply shortages not reasonably anticipated by the Contractor at the time the Contract was entered.

- 23. 108.11 DETERMINATION OF EXTENSION OF CONTRACT TIME FOR COMPLETION, part (b) Determination of Contract Completion Date Extension, subpart (13), is hereby further modified by changing the word "Delay" to the word "Delays" at the beginning of the first sentence.
- 24. <u>108.12 FAILURE TO COMPLETE WORK ON TIME</u>, part (c) <u>Liquidated Damages;</u> <u>General; Days Charged</u>, is hereby modified by deleting the DAILY CHARGE FOR LIQUIDATED DAMAGES FOR EACH WORKING DAY OF DELAY table in its entirety and replacing it with a new table as follows:

Original Contract Amount				
From More Than (\$)	To and Including (\$)	Daily Charge Per Day of Delay (\$)		
0	300,000	1,600.00		
300,000	500,000	1,700.00		
500,000	1,000,000	1,800.00		
1,000,000	1,500,000	2,000.00		
1,500,000	3,000,000	2,300.00		
3,000,000	5,000,000	2,800.00		
5,000,000	10,000,000	4,000.00		
10,000,000	20,000,000	6,500.00		
20,000,000	20,000,000+	11,400.00		

DAILY CHARGE FOR LIQUIDATED DAMAGES FOR EACH WORKING DAY OF DELAY

SECTION 109 - MEASUREMENT AND PAYMENT

25. <u>SECTION 109 - MEASURMENT AND PAYMENT</u>, is hereby corrected by deleting pages 1-141 and 1-142 in their entirety.

SECTION 203 - EXCAVATION AND EMBANKMENTS

- 26. <u>203.01 DESCRIPTION</u>, is hereby modified by adding the phrase "performing test borings for the purpose of determining areas of roadway and embankment subsurface voids;" after the phrase "trimming and shaping of slopes;" in the first sentence of the first paragraph.
- 27. <u>203.01 DESCRIPTION</u>, is hereby further modified by adding the following new part (1):
 - (1) <u>Test Borings</u>. Test Borings shall consist of an investigative and planned approach to determining areas of roadway and embankment subsurface voids and repairing bored areas.
- 28. <u>203.02 MATERIALS</u>, is hereby modified by adding the following to the Subsection listing:

PVC Plastic Pipe......710.06

29. <u>203.02 MATERIALS</u>, is hereby further modified by adding the following paragraphs:

Concrete for backfilling subsurface voids shall meet the requirements of Controlled Density (Flowable) Fill of Section 541.

Bituminous concrete pavement shall conform to the requirements of Section 406 or 490, as applicable for the Contract, with the exception that the mix design submittal and plant inspection requirements set forth in Section 406 or 490 will not apply.

30. <u>203.03 GENERAL CONSTRUCTION REQUIREMENTS</u>, is hereby modified by adding the following as the eighth paragraph:

Prior to the construction of Test Borings and the placement of Controlled Density (Flowable) Fill, the Contractor shall submit to the Engineer site-specific plans, detailing the schedule of work (for these two items), type and location of drilling, sleeve installation, pumping system, confirmatory boring operation, method of filling bore hole (with or without voids being encountered), and repair of the roadway section (sand, gravel, and pavement).

- 31. <u>203.11 EMBANKMENTS</u>, is hereby modified by adding the following new part (e):
 - (e) <u>Test Borings</u>. Test borings shall be performed at the approximate locations indicated in the Plans and/or as directed by the Engineer.

When used adjacent to culverts, test borings shall extend to a depth equal to the bottom of the culvert using casing advanced drilling methods. Alternate drilling equipment that provides a suitably clean, open hole may be submitted to the Engineer for approval.

If void(s) are encountered, Controlled Density (Flowable) Fill shall be placed to completely fill the void(s). Confirmatory borings shall be performed in these locations as directed by the Engineer.

The roadway surface at boring hole locations shall be backfilled and then patched using Bituminous Concrete Pavement.

- 32. <u>203.13 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following new part (e):
 - (e) <u>Test Borings</u>. The quantity of Test Borings to be measured for payment will be the number of meters (linear feet) of test boring performed in the complete and accepted work.
- 33. <u>203.14 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase "and Test Borings" after the phrase "Shoulder Berm Removal" in the first sentence of the first paragraph.
- 34. 203.14 BASIS OF PAYMENT, is hereby further modified by adding the phrase "submitting site-specific plans as required, performing test borings, installing sleeves, backfilling, patching with bituminous concrete pavement," after the phrase "work specified," in the second sentence of the first paragraph.
- 35. <u>203.14 BASIS OF PAYMENT</u>, is hereby corrected by adding a period at the end of the sixth paragraph.
- 36. <u>203.14 BASIS OF PAYMENT</u>, is hereby still further modified by adding the following paragraph and pay item:

Filling of subsurface voids encountered in performing Test Borings will be paid for under Contract item 541.45.

Payment will be made under:

Pay Item

Pay Unit

203.45 Test Borings

Meter (Linear Foot)

SECTION 310 - RECLAIMED STABILIZED BASE

- 37. <u>310.04 CONSTRUCTION</u>, is hereby modified by deleting the phrase "or dust control" after the word "stabilizing" in the third paragraph.
- 38. <u>310.04 CONSTRUCTION</u>, is hereby further modified by adding the following sentence to the third paragraph:

When a dust control agent is not exclusively specified on the Plans, water and/or Calcium Chloride shall be used as that agent to meet all requirements of this Section.

39. <u>310.10 BASIS OF PAYMENT</u>, is hereby modified by adding the following as the fourth paragraph:

Calcium Chloride used for dust control after the reclamation will not be paid for directly, but will be considered incidental to the Reclaimed Stabilized Base item.

SECTION 402 AGGREGATE SHOULDERS

40. <u>402 AGGREGATE SHOULDERS</u>, is hereby deleted in its entirety and replaced with the following:

SECTION 402 AGGREGATE SHOULDERS

402.01 DESCRIPTION. This work shall consist of furnishing, placing and compacting material for Aggregate Shoulders on a prepared surface.

402.02 MATERIALS. Materials for Aggregate Shoulders and Aggregate Shoulders, RAP, shall meet the requirements of the following Subsection:

Aggregate for Surface Course and Shoulders.....704.12(a) Aggregate Shoulders, RAP......704.12(b)

402.03 PLACEMENT. Aggregate Shoulders shall be placed with equipment capable of placing the material in accordance with the Plans. The Contractor shall demonstrate to the Engineer the proposed placement procedures. If deemed necessary by the Engineer the procedures shall be adjusted to avoid damage to the wearing course. It shall be the Contractor's responsible to repair any damage to the wearing course to the satisfaction of the Engineer, at no additional cost to the Agency.

Unless otherwise directed by the Engineer or shown on the Plans, Aggregate Shoulders shall be placed in one course and shall not be placed until the adjacent wearing course has been completed. The maximum layer thickness for placement of material shall be $150 \pm 50 \text{ mm}$ (6 ± 2 inches) after compaction. When multiple layers are required, all layers shall be placed in approximately equal thicknesses.

All layers of Aggregate Shoulders shall be compacted to 95 percent of the maximum dry density determined by AASHTO T 99, method C or to the satisfaction of the Engineer.

The Contractor shall correct any segregated material, to the satisfaction of the Engineer, at no additional cost to the Agency. All material shall have a true and even surface as shown in the Plans. All holes or depressions found prior to acceptance of the project shall be filled with additional material, reworked and compacted as necessary.

A printed load ticket, indicating truck identification, date and time of delivery, and weight shall be furnished to the Engineer with each load delivered to the project.

402.04 METHOD OF MEASUREMENT. The quantity of Aggregate Shoulders and Aggregate Shoulders, RAP to be measured for payment will be the number of metric tons (tons) used in the complete and accepted work, as determined from load tickets. Partial loads shall be paid for on a pro-rated basis.

402.05 BASIS OF PAYMENT. The accepted quantity of Aggregate Shoulders and Aggregate Shoulders, RAP will be paid for at the Contract unit price per metric ton (ton). Payment will be full compensation for performing the work specified and for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work.

Water used for obtaining the required compaction will not be paid for separately but will be considered incidental to the Aggregate Shoulders item in the Contract.

Payment will be made under:

Pay Item

Pay Unit

402.12 Aggregate Shoulders

Metric Ton (Ton)

402.13 Aggregate Shoulders, RAP Metric Ton (Ton)

SECTION 406 - MARSHALL BITUMINOUS CONCRETE PAVEMENT

- 41. <u>406.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 406.03D - MINIMUM QUALITY CONTROL GUIDELINES, is hereby modified by deleting footnote designation "(1)" after "Cold Feed Gradation" in the fourth row.
- 42. <u>406.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 406.03D - MINIMUM QUALITY CONTROL GUIDELINES, is hereby further modified by adding the following as the fifth row:

Cold Feed % Fractured Face &	Day of initial paving	ASTM D5821
Thin and Elongated Particles ⁽¹⁾	and 1 per week ⁽⁴⁾	ASTM D4791

- 43. <u>406.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 406.03D - MINIMUM QUALITY CONTROL GUIDELINES, is hereby still further modified by deleting footnote 1 in its entirety and replacing it as follows:
 - 1 "Fractured faces" (for gravel sources only). "Thin and elongated" of particles retained on the No. 4 (4.75 mm) sieve and above.
- 44. <u>406.03 COMPOSITION OF MIXTURE</u>, part (f) <u>Boxed Samples</u>, is hereby corrected by adding the word "Engineer" to the end of the second (last) sentence.
- 45. <u>406.05 BITUMINOUS MIXING PLANT AND TESTING</u>, part (a) <u>Requirements for All</u> <u>Plants</u>, subpart (12) <u>Testing Facilities</u>, is hereby modified by adding the following as the fourth paragraph:

The laboratory shall be equipped with a monitoring system readout that provides real-time access to active Agency project(s) production status. The system shall accumulate and provide the following information via digital display: Project name and number, truck number, ticket number, product description, and accumulated project daily quantity and load quantity accurate to the nearest metric ton (ton). The display shall be continually updated by the plant's recording system. Waivers may be considered for plants with production capacities not capable of exceeding 150 metric tons (tons) per hour.

46. <u>406.16 SURFACE TOLERANCE</u>, is hereby modified by adding the phrase ", with the exception of all limited access highway on and off ramps," after the phrase "miscellaneous mix" in the second (last) sentence of the sixth (last) paragraph.

SECTION 490 - SUPERPAVE BITUMINOUS CONCRETE PAVEMENT

47. <u>490.03 COMPOSITION OF MIXTURE</u>, part (b) <u>Design Criteria</u>, TABLE 490.03B - DESIGN CRITERIA is hereby modified by deleting the fourth row (for "Dust Proportion") in its entirety and replacing it with the following:

Dust Proportion	0.60 - 1.20 (Wet Sieve)
(Filler/Asphalt Ratio)	(Dry Sieve for Production -
	Types IS and IIS: 0.50 - 1.20
	Types IIIS, IVS, and VS: 0.50 - 1.00)

48. <u>490.03 COMPOSITION OF MIXTURE</u>, part (b) <u>Design Criteria</u>, TABLE 490.03B - DESIGN CRITERIA is hereby further modified by deleting the sixth row (for "Voids in Mineral Aggregate") in its entirety and replacing it with the following:

Voids in Mineral Aggregate (VMA)%					16.5 min.	
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- 49. <u>490.03 COMPOSITION OF MIXTURE</u>, part (b) <u>Design Criteria</u>, TABLE 490.03B DESIGN CRITERIA is hereby still further modified by deleting the ninth row (for "Voids Filled with Asphalt") in its entirety.
- 50. <u>490.03 COMPOSITION OF MIXTURE</u>, part (b) <u>Design Criteria</u>, TABLE 490.03B DESIGN CRITERIA is hereby still further modified by deleting footnotes (3), (4), and (5) in their entirety.
- 51. <u>490.03 COMPOSTION OF MIXTURE</u>, part (b) <u>Design Criteria</u>, is hereby modified by deleting the heading "<u>Voids Filled with Asphalt (VFA)</u>" and the equation "VFA = 100 x ((VMA - V_a)/VMA)" in the second paragraph.
- 52. <u>490.03 COMPOSITION OF MIXTURE</u>, part (c) <u>Mix Design</u>, is hereby modified by deleting the phrase ", and a single percentage for VFA" in the first sentence of the third paragraph.
- 53. <u>490.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 490.03C - PRODUCTION TESTING TOLERANCES is hereby modified by deleting the seventh (last) row (for "VFA") in its entirety.
- 54. <u>490.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 490.03C - PRODUCTION TESTING TOLERANCES is hereby further modified by deleting footnote 2 in its entirety.
- 55. <u>490.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 490.03D - MINIMUM QUALITY CONTROL GUIDELINES, is hereby modified by deleting footnote designation "(1)" after "Cold Feed Gradation" in the fourth row.
- 56. <u>490.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 490.03D - MINIMUM QUALITY CONTROL GUIDELINES, is hereby further modified by adding the following as the fifth row:

Cold Feed % Fractured Face &	Day of initial paving	ASTM D5821
Thin and Elongated Particles ⁽¹⁾	and 1 per week $^{(4)}$	ASTM D4791

- 57. <u>490.03 COMPOSITION OF MIXTURE</u>, part (d) <u>Control of Mixtures</u>, TABLE 490.03D - MINIMUM QUALITY CONTROL GUIDELINES, is hereby still further modified by deleting footnote 1 in its entirety and replacing it as follows:
 - 1 "Fractured faces" (for gravel sources only). "Thin and elongated"
 of particles retained on the No. 4 (4.75 mm) sieve and above.
- 58. <u>490.05 BITUMINOUS MIXING PLANT AND TESTING</u>, part (a) <u>Requirements for All</u> <u>Plants</u>, subpart (12) <u>Testing Facilities</u>, is hereby modified by adding the following as the third paragraph:

The laboratory shall be equipped with a monitoring system readout that provides real-time access to active Agency project(s) production status. The system shall accumulate and provide the following information via digital display: Project name and number, truck number, ticket number, product description, and accumulated project daily quantity and load quantity accurate to the nearest metric ton (ton). The display shall be continually updated by the plant's recording system. Waivers may be considered for plants with production capacities not capable of exceeding 150 metric tons (tons) per hour. State of Vermont Agency of Transportation 2011 General Special Provisions

- 59. <u>490.14 COMPACTION</u>, part (c) <u>Coring Protocol</u>, is hereby corrected by deleting text "0" and replacing it with text ")" in the first sentence of the seventh paragraph.
- 60. <u>490.16 SURFACE TOLERANCE</u>, is hereby modified by adding the phrase ", with the exception of all limited access highway on and off ramps," after the phrase "miscellaneous mix" in the second (last) sentence of the sixth (last) paragraph.

SECTION 501 - HPC STRUCTURAL CONCRETE

61. 501.03 CLASSIFICATION AND PROPORTIONING, TABLE 501.03A (Metric), is hereby modified by deleting the fourth column (with header "Max. Slump (mm)") in its entirety and replacing it with the following:

Max. ⁷ Slump (mm)
N/A

- 62. <u>501.03 CLASSIFICATION AND PROPORTIONING, TABLE 501.03A (Metric)</u>, is hereby further modified by adding the following footnote:
 - ⁷ The mix shall not exhibit segregation at the slump/spread used at placement. If the Engineer suspects there is segregation, the Engineer will require a slump/spread test be performed by the Contractor to visually observe the characteristics of the mix. If in the opinion of the Engineer the mix does exhibit segregation, the load will be rejected and subsequent load(s) shall be tested, at a minimum of 3 loads or until the problem is corrected.

If the Contractor needs a concrete with a slump greater than 200 mm, the Contractor shall propose to the Engineer to use an SCC mix, which shall be submitted to the Engineer for review and acceptance.

63. <u>501.03</u> CLASSIFICATION AND PROPORTIONING, TABLE 501.03A (English), is hereby modified by deleting the fourth column (with header "Max. Slump (in)") in its entirety and replacing it with the following:

Max. ⁷ Slump (mm)
(11111)
N/A

- 64. 501.03 CLASSIFICATION AND PROPORTIONING, TABLE 501.03A (English), is hereby corrected by deleting text "700 mm" and replacing it with text "28 inches" in footnote 4.
- 65. <u>501.03 CLASSIFICATION AND PROPORTIONING, TABLE 501.03A (English)</u>, is hereby further modified by adding the following footnote:
 - ⁷ The mix shall not exhibit segregation at the slump/spread used at placement. If the Engineer suspects there is segregation, the Engineer will require a slump/spread test be performed by the Contractor to visually observe the characteristics of the mix. If in the opinion of the Engineer the mix does exhibit segregation, the load will be rejected and subsequent load(s) shall be tested, at a minimum of 3 loads or until the problem is corrected.

If the Contractor needs a concrete with a slump greater than 8 inches, the Contractor shall propose to the Engineer to use an SCC mix, which shall be submitted to the Engineer for review and acceptance.

- 66. <u>501.03 CLASSIFICATION AND PROPORTIONING</u>, ninth paragraph (beginning "A minimum of thirty (30)..."), is hereby corrected by deleting the phrase "1716 Barre-Montpelier Rd., Berlin, Vermont 05602" and replacing it with the phrase "2178 Airport Road Unit B, Berlin, Vermont 05641" in the second sentence.
- 67. <u>501.11 DEPOSITING CONCRETE UNDERWATER</u>, part (a) <u>General</u>, subpart (1), is hereby corrected by deleting the phrase "1716 Barre-Montpelier Rd., Berlin, Vermont 05602" and replacing it with the phrase "2178 Airport Road Unit B, Berlin, Vermont 05641" in the second sentence of the second paragraph.

SECTION 505 - PILING

68. <u>505.09 BASIS OF PAYMENT</u>, is hereby modified by adding the following pay item:

Pay Item

Pay Unit

505.12 Steel Piling, HP 250 x 85 (HP 10 x 57) Meter (Linear Foot)

SECTION 506 - STRUCTURAL STEEL

69. <u>506.19 BOLTING AND CONNECTIONS</u>, part (c) <u>Installation</u>, is hereby modified by deleting the tenth paragraph (Beginning "Bolts shall be tightened...") in its entirety and replacing it with the following:

Bolts shall be tightened to develop a tension not less than 5 percent in excess of the minimum bolt tension specified in Table 506.19A. Bolts shall not be tightened to more than the maximum tension specified in Table 506.19A.

- 70. <u>506.19 BOLTING AND CONNECTIONS</u>, part (c) <u>Installation</u>, is hereby further modified by deleting subparts (1) <u>Calibrated Wrench Method</u>, (2) <u>Turn of</u> the Nut Method, and (3) Torque Method in their entirety.
- 71. <u>506.19 BOLTING AND CONNECTIONS</u>, part (c) <u>Installation</u>, subpart (4) <u>Tension</u> <u>Control Assembly Method</u>, is hereby modified by being re-designated as part (1).
- 72. <u>506.19 BOLTING AND CONNECTIONS</u>, part (c) <u>Installation</u>, subpart (5) <u>Direct</u> <u>Tension Indicator Method</u>, is hereby modified by being re-designated as part (2).
- 73. <u>506.19 BOLTING AND CONNECTIONS</u>, part (c) <u>Installation</u>, is hereby still further modified by deleting TABLE 506.19B (including associated paragraphs) in its entirety.
- 74. <u>506.19 BOLTING AND CONNECTIONS</u>, part (d) <u>Acceptance of Bolt Tensioning</u>, is hereby modified by deleting the second and third sentences of the first paragraph.
- 75. <u>506.19 BOLTING AND CONNECTIONS</u>, part (d) <u>Acceptance of Bolt Tensioning</u>, is hereby further modified by deleting the fourth, fifth, ninth, eleventh, and twelfth paragraphs in their entirety.

SECTION 507 - REINFORCING STEEL

- 76. <u>507.01 DESCRIPTION</u>, is hereby modified by adding the phrase "of the level specified" after the phrase "bar reinforcement".
- 77. <u>507.01 DESCRIPTION</u>, is hereby further modified by adding the following paragraphs:

Levels and associated types of reinforcing steel are specified as follows:

- (a) Level I (Limited Corrosion Resistance). Level I reinforcing includes plain, low alloy, and epoxy coated reinforcing steel.
- (b) <u>Level II (Improved Corrosion Resistance)</u>. Level II reinforcing includes stainless clad and dual-coated reinforcing steel.
- (c) <u>Level III (Exceptional Corrosion Resistance)</u>. Level III reinforcing includes solid stainless reinforcing steel.

The location, level, and when specified, type of reinforcing shall be as indicated in the Plans. Reinforcing supplied shall meet the requirements of the level specified or any higher level. Only one type of reinforcing steel shall be used for each level for the Contract work, unless permitted in writing by the Engineer.

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- 78. <u>507.02 MATERIALS</u>, is hereby modified by deleting the sixth (final) entry in the Subsection listing.
- 79. <u>507.03 FABRICATION AND SHIPMENT</u>, part (a) <u>General</u>, is hereby modified by adding the phrase "deformed bar" after the phrase "shall be" in the first paragraph.
- 80. <u>507.03 FABRICATION AND SHIPMENT</u>, part (a) <u>General</u>, is hereby corrected by deleting punctuation ".." and replacing it with punctuation "." at the end of the first paragraph.
- 81. <u>507.04 PROTECTION OF MATERIAL</u>, is hereby modified by adding the following as the second sentence in the first paragraph:

When multiple levels of reinforcing steel are used on a project, they shall be stored separately, including during transport in order that there is no direct contact between the bars.

- 82. <u>507.04 PROTECTION OF MATERIAL</u>, is hereby further modified by deleting the phrase "The epoxy coating" and replacing it with the word "Coatings" in the third sentence of the third paragraph.
- 83. <u>507.04 PROTECTION OF MATERIAL</u>, is hereby still further modified by deleting the phrase "as required for damaged areas" and replacing it with the phrase "per the coating manufacturer's recommendations and to the satisfaction of the Engineer" in the third sentence of the fifth (last) paragraph.
- 84. <u>507.04 PROTECTION OF MATERIAL</u>, is hereby still further modified by adding the following paragraph:

Ends of Level II reinforcing steel where the mild steel is exposed shall be repaired in the following manner:

- (a) Cut ends of dual-coated reinforcing steel shall be coated with a two-part epoxy patching material as specified by the coating manufacturer. The materials and procedures shall be approved by the Engineer prior to the repairs being performed.
- (b) Cut ends of stainless clad reinforcing steel shall be epoxied and capped in accordance with the manufacturer's recommendations with either stainless steel caps or plastic caps. Caps shall be sealed to prevent the intrusion of moisture.
- 85. <u>507.05 PLACING AND FASTENING REINFORCING STEEL</u>, is hereby modified by deleting the sixth paragraph in its entirety and replacing it with the following:

Tie wires and supports used for installation of reinforcement shall be composed of the same material as any steel being contacted or shall be plastic. When forms are to be removed in their entirety, uncoated steel chairs equipped with snug-fitting, high-density, polyethylene tips which provide 3 mm (1/4 inch) clearance between the metal and any exposed surface may be used.

86. 507.10 METHOD OF MEASUREMENT, is hereby modified by deleting the phrase ", Epoxy Coated Reinforcing Steel, and Galvanized Reinforcing Steel" and replacing it with the phrase "of the type and size specified" in the first paragraph.

Pay Item

Pay Unit

- 87. <u>507.10 METHOD OF MEASUREMENT</u>, is hereby further modified by adding the phrase "of the type specified" at the end of the second paragraph (beginning "The quantity of Drilling and Grouting Dowels...").
- 88. <u>507.11 BASIS OF PAYMENT</u>, is hereby modified by deleting the following pay items:

507.15 Reinforcing Steel	Kilogram	(Pound)
507.17 Epoxy Coated Reinforcing Steel	Kilogram	(Pound)
507.18 Galvanized Reinforcing Steel	Kilogram	(Pound)

89. <u>507.11 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay items:

Pay Item	Pay Unit
507.11 Reinforcing Steel, Level I	Kilogram (Pound)
507.12 Reinforcing Steel, Level II	Kilogram (Pound)
507.13 Reinforcing Steel, Level III	Kilogram (Pound)

SECTION 509 - LONGITUDINAL DECK GROOVING

90. <u>509.03 CONSTRUCTION DETAILS</u>, is hereby modified by deleting the last line of the second paragraph (beginning "Depth: 4 mm...") and replacing it with the following:

Depth: 6 mm $(\pm 2 \text{ mm}) ((1/4'') (\pm 1/16''))$

SECTION 510 - PRESTRESSED CONCRETE

91. <u>510.12 INSTALLATION</u>, part (a) <u>Prestressed Concrete</u>, subpart (2) <u>Initial</u> <u>Post-tensioning</u>, is hereby modified by deleting the first sentence in its entirety.

SECTION 516 - EXPANSION DEVICES

- 92. <u>516.01 DESCRIPTION</u>, is hereby modified by adding the phrase ", or partially removing and modifying," after the word "installing".
- 93. <u>516.05A PARTIAL REMOVAL AND MODIFICATION</u>, is hereby made a new Subsection of the Standard Specifications as follows:

516.05A PARTIAL REMOVAL AND MODIFICATION. The Contractor shall partially remove and modify the existing bridge joint at the locations indicated in the Plans and as directed by the Engineer.

Steel for new joint plates shall meet the requirements of Subsection 714.02.

The Contractor shall remove and dispose of existing joint plates, drain troughs, and associated hardware.

The Contractor shall grind existing steel plates and/or shoulder concrete to the configuration shown on the Plans. The final surface shall be to the satisfaction of the Engineer.

94. <u>516.06 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following paragraph:

The quantity of Partial Removal and Modification of Bridge Joint to be measured for payment will be the number of meters (linear feet) of bridge joint removed and modified in the complete and accepted work, measured along its centerline.

95. <u>516.07 BASIS OF PAYMENT</u>, is hereby modified by adding the following paragraph and pay item:

The accepted quantity of Partial Removal and Modification of Bridge Joint will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for partially removing and modifying the existing joint as specified and as detailed in the Plans, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

516.20 Partial Removal and Modification of Meter (Linear Foot) Bridge Joint

SECTION 525 - BRIDGE RAILINGS

96. <u>525.02 MATERIALS</u>, is hereby modified by adding the following as the third entry in the Subsection listing:

97. <u>525.06 INSTALLATION</u>, part (a) <u>General</u>, is hereby modified by adding the following as the sixth (last) paragraph:

Concrete railing shall receive an aesthetic finish in accordance with Subsection 501.16. Cracks in concrete railing shall be repaired by a method approved by the Engineer. Cracks in concrete greater than 0.25 mm (0.01 inch) may be cause for rejection.

- 98. <u>525.08 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase "for furnishing all forms, joint filler, admixtures, trial batches, and connection plates for approach railing terminal connectors; for satisfactory completion of any necessary repairs, surface finishing, and curing;" after the phrase "for all work necessary for verifying and adjusting post height and/or bolt spacing of existing posts;" in the second (last) sentence of the third paragraph.
- 99. <u>525.08 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay item:

Pay Item

Pay Unit

525.45 Bridge Railing, Galvanized Steel Tubing/ Meter Concrete Combination (Linear Foot)

SECTION 531 - BRIDGE BEARING DEVICES

100. <u>531.04 FABRICATION</u>, part (b) <u>Surface Protection</u>, is hereby corrected by deleting punctuation ",." at the end of the paragraph and replacing it with punctuation ".".

SECTION 540 - PRECAST CONCRETE

- 101. <u>540.02 MATERIALS</u>, is hereby modified by deleting the fourteenth entry (beginning "Coated Bar Reinforcement...") in the Subsection listing.
- 102. <u>540.02 MATERIALS</u>, is hereby further modified by adding the following as the twenty-ninth entry in the Subsection listing:

Sheet Membrane Waterproofing, Preformed Sheet......726.11

- 103. <u>540.07 FABRICATION</u>, part (e) <u>Placing Concrete</u>, is hereby modified by deleting the phrase "done with care" and replacing it with the phrase "performed in accordance with Subsection 501.10(f)" in the third (last) sentence.
- 104. 540.10 INSTALLATION, is hereby modified by adding the following new part (c):
 - (c) <u>Sheet Membrane Waterproofing</u>. A reinforced asphalt, synthetic resin, or coal-tar based preformed sheet membrane shall be placed over the joints of precast concrete units in accordance with the Contract Documents. All work performed shall be in accordance with the manufacturer's recommendations.

Material for membrane shall meet the requirements of Subsection 726.11.

Waterproofing shall not be performed in wet weather or when the temperature is below 5°C (40°F), without the authorization of the Engineer.

The concrete surfaces that are to be waterproofed shall be reasonably smooth and free from projections or holes and shall be cleaned of dust and loose material. The surfaces shall be visibly dry prior to and during application of the membrane system.

105. <u>540.14 BASIS OF PAYMENT</u>, is hereby modified by adding the following paragraph:

Furnishing and placing preformed sheet membrane waterproofing, including primer, mastic, polyurethane membrane sealant, and surface preparation, is considered incidental to the work for Precast Concrete Structure.

SECTION 541 - STRUCTURAL CONCRETE

- 106. <u>541.03 CLASSIFICATION AND PROPORTIONING</u>, TABLE 541.03A (Metric), is hereby modified by deleting footnote designation "*" in the first and fourth entries of the third row (for "Class A" concrete).
- 107. <u>541.03 CLASSIFICATION AND PROPORTIONING</u>, TABLE 541.03A (Metric), is hereby further modified by deleting footnote "*" and associated text (beginning "* When this class of concrete...").

108. 541.03 CLASSIFICATION AND PROPORTIONING, TABLE 541.03A (Metric), is hereby still further modified by deleting the fourth (with header "Range in Slump (mm)") and fifth (with header "Air Cont. (%)") columns in their entirety and replacing them with the following:

Range*	Air
in Slump	Content
(mm)	(%)
	7.0 ± 1.5
	7.0 ± 1.5
	7.0 ± 1.5
	5.5 ± 1.5
	5.5 ± 1.5
	7.0 ± 1.5

- 109. <u>541.03 CLASSIFICATION AND PROPORTIONING</u>, TABLE 541.03A (Metric), is hereby still further modified by adding the following footnote:
 - * The mix shall not exhibit segregation at the slump/spread used at placement. If the Engineer suspects there is segregation, the Engineer will require a slump/spread test be performed by the Contractor to visually observe the characteristics of the mix. If in the opinion of the Engineer the mix does exhibit segregation, the load will be rejected and subsequent load(s) shall be tested, at a minimum of 3 loads or until the problem is corrected.

If the Contractor needs a concrete with a slump greater than 200 mm, the Contractor shall propose to the Engineer to use an SCC mix, which shall be submitted to the Engineer for review and acceptance.

110. <u>541.03 CLASSIFICATION AND PROPORTIONING, TABLE 541.03A (Metric)</u> is hereby still further modified by adding the following as the eighth (bottom) row with the included footnotes:

Controlled							
Density	To be	To be	To be		704.01	0.85	
(Flowable)	designed	designed	designed	10	(Fine	max.	
Fill	* * *	* * * *	****	min.	Aggregate)	*****	

- *** A mineral admixture may be used to replace a portion of the cement. **** The minimum amount of water shall be used to produce the desirable flow for the intended use without showing segregation.
- **** The slump (flowability) shall be such that material is able to completely fill the voids or area as needed without segregation.
- *****A minimum of 3 cylinders per test age required to constitute a test. If average strength at 28 days exceeds 115% of max. strength, then payment for Contract item 541.45 will be 85% of the Contract bid price.
- 111. <u>541.03 CLASSIFICATION AND PROPORTIONING, TABLE 541.03A (English)</u>, is hereby modified by deleting footnote designation "*" in the first and fourth entries of the third row (for "Class A" concrete).

- 112. <u>541.03</u> CLASSIFICATION AND PROPORTIONING, TABLE 541.03A (English), is hereby further modified by deleting footnote "*" and associated text (beginning "* When this class of concrete...").
- 113. 541.03 CLASSIFICATION AND PROPORTIONING, TABLE 541.03A (English), is hereby still further modified by deleting the fourth (with header "Range in Slump (in.)") and fifth (with header "Air Cont. (%)") columns in their entirety and replacing them with the following:

Range*	Air
in Slump	Content
(mm)	(%)
	7.0_±
	1.5
	7.0 ±
	1.5
	7.0 ±
	1.5
	5.5 ±
	1.5
	5.5 ±
	1.5
	7.0 ±
	1.5

- 114. <u>541.03 CLASSIFICATION AND PROPORTIONING, TABLE 541.03A (English)</u>, is hereby still further modified by adding the following footnote:
 - * The mix shall not exhibit segregation at the slump/spread used at placement. If the Engineer suspects there is segregation, the Engineer will require a slump/spread test be performed by the Contractor to visually observe the characteristics of the mix. If in the opinion of the Engineer the mix does exhibit segregation, the load will be rejected and subsequent load(s) shall be tested, at a minimum of 3 loads or until the problem is corrected.

If the Contractor needs a concrete with a slump greater than 8 inches, the Contractor shall propose to the Engineer to use an SCC mix, which shall be submitted to the Engineer for review and acceptance.

115. <u>541.03 CLASSIFICATION AND PROPORTIONING</u>, <u>TABLE 541.03A (English)</u> is hereby modified by adding the following as the eighth (bottom) row with the included footnotes:

Controlled							
Density	To be	To be	To be		704.01	125	
(Flowable)	designed	designed	designed	10	(Fine	max.	
Fill	* * *	* * * *	* * * * *	min.	Aggregate)	*****	

*** A mineral admixture may be used to replace a portion of the cement. **** The minimum amount of water shall be used to produce the desirable flow for the intended use without showing segregation.

- ***** The slump (flowability) shall be such that material is able to completely fill the voids or area as needed without segregation.
- *****A minimum of 3 cylinders per test age required to constitute a test. If average strength at 28 days exceeds 115% of max. strength, then

payment for Contract item 541.45 will be 85% of the Contract bid price.

116. <u>541.10 PLACING CONCRETE</u>, part (c) <u>Placement Limitations</u>, is hereby modified by adding the following paragraphs:

Flowable fill shall be applied to voids and other locations as specified in the Contract Documents and as directed by the Engineer. Flowable fill shall be able to completely fill the existing voids.

If voids are discovered, the Engineer may direct the Contractor to submit a plan for filling the remaining voids. This work, including preparing and submitting the plan and filling any remaining voids, will be at the Contractor's expense.

- 117. <u>541.11 DEPOSITING CONCRETE UNDERWATER</u>, part (a) <u>General</u>, subpart (1), is hereby corrected by deleting the phrase "1716 Barre-Montpelier Rd., Berlin, Vermont 05602" and replacing it with the phrase "2178 Airport Road Unit B, Berlin, Vermont 05641" in the second sentence of the second paragraph.
- 118. <u>541.19 METHOD OF MEASUREMENT</u>, is hereby modified by deleting the phrase "or LW" and replacing it with the phrase "LW, or Flowable Fill" in the first sentence of the first paragraph.
- 119. <u>541.20 BASIS OF PAYMENT</u>, is hereby modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

541.45 Controlled Density (Flowable) Fill Cubic Meter (Cubic Yard)

SECTION 580 - STRUCTURAL CONCRETE REPAIR

120. <u>580.02 MATERIALS</u>, is hereby modified by adding the following to the Subsection listing:

Polymer Concrete Repair Material......780.05

121. <u>580.03 PROPORTIONING AND MIXING</u>, is hereby modified by deleting the last sentence of the first paragraph in its entirety and replacing it with the following:

The product shall not be extended with sand or gravel, except for Rapid Setting Concrete Repair Material with Coarse Aggregate and Polymer Concrete Repair Material when mixed with approved aggregates in conformance with the manufacturer's recommendations.

- 122. <u>580.04 SURFACE PREPARATION FOR REPAIRS, OVERLAYS AND MEMBRANES</u>, is hereby modified by adding the word "abrasive" after the phrase "shall be" and before the phrase "blast cleaned" in the first sentence of the third paragraph.
- 123. <u>580.04 SURFACE PREPARATION FOR REPAIRS, OVERLAYS AND MEMBRANES</u>, is hereby further modified by adding the phrase ", or Polymer Concrete Repair Material," after the word "Aggregate" in the sixth paragraph.

- 124. <u>580.08 METHOD OF MEASUREMENT</u>, is hereby modified by deleting the phrase "and not for new patches, which will be the responsibility of the Contractor" and replacing it with the phrase ", with no deductions made for areas of new patches" in the second sentence of the ninth paragraph.
- 125. <u>580.08 METHOD OF MEASUREMENT</u>, is hereby further modified by adding the phrase ", and Polymer Concrete Repair Material" after the word "Aggregate" in the first sentence of the tenth paragraph.
- 126. <u>580.09 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase ", and Polymer Concrete Repair Material" after the word "Aggregate" in the seventh paragraph.
- 127. <u>580.09 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

580.21 Polymer Concrete Repair Material Cubic Meter (Cubic Yard)

SECTION 601 - CULVERTS AND STORM DRAINS

128. <u>601.02 MATERIALS</u>, is hereby modified by adding the following as the sixth entry in the Subsection listing:

- 129. $\frac{601.07 \text{ JOINING PIPE}}{(d) \text{ as follows:}}$, is hereby modified by adding the following new part
 - (d) <u>Corrugated Polypropylene Pipe</u>. Corrugated Polypropylene pipe shall be joined by a system designed and approved by the pipe manufacturer. Couplings and fittings shall provide sufficient longitudinal strength to preserve pipe alignment and prevent separation at the joints.
- 130. <u>601.11 BASIS OF PAYMENT</u>, is hereby modified by changing the end of the pay item number range for CPEP Elbow from 601.5999 to 601.5899.
- 131. <u>601.11 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay items:

Payment will be made under:

Pay Item

Pay Unit

601.2800 to	601.2999	CPPP(SL)	Meter (Linear Foot))
601.5900 to	601.5999	CPPP Elbow	Each	
601.7100 to	601.7199	CPPPES	Each	

SECTION 608 - EQUIPMENT RENTAL

- 132. <u>608.02 GENERAL REQUIREMENTS</u>, is hereby modified by adding the following new part (i):
 - (i) <u>Truck-Mounted Attenuator, Advanced Warning Vehicle/Protection</u> <u>Vehicle (AWV/PV)</u>. Truck-Mounted Attenuator, AWV/PV shall consist of a Truck-Mounted Attenuator meeting the requirements of Subsection 608.02(h) and be equipped with a Changeable Message Sign in accordance with the MUTCD. The Changeable Message Sign shall be mounted so as to be clearly visible to the traveling public and shall be capable of being controlled from inside the cab of the vehicle, with capable controls including but not limited to turning the sign on and off, changing between preset messages, and inserting new messages when approved by the Engineer. Phases of signing shall have the ability to change automatically when required.
- 133. <u>608.04 BASIS OF PAYMENT</u>, is hereby modified by changing the word "item" to "items" and by adding the phrase "and Truck-Mounted Attenuator, AWV/PV" after the phrase "Truck-Mounted Attenuator" in the second (last) paragraph.
- 134. <u>608.04 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

608.50 Truck-Mounted Attenuator, AWV/PV

Hour

SECTION 613 - STONE FILL, RIPRAP, AND SLOPE PAVING

135. <u>613.02 MATERIALS</u>, is hereby modified by adding the following to the Subsection listing:

- 136. 613.04 PLACING, is hereby modified by adding the following new part (d):
 - (d) <u>Rock Fill for Gabions</u>. The furnishing and installing of gabion baskets shall be performed in accordance with the manufacturer's recommendations.

The Contractor should expect to perform some manual stone placement to minimize voids and to create a neat, flat vertical surface of gabions.

137. <u>613.05 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following paragraph:

The quantity of Gabion Wall to be measured for payment will be the number of cubic meters (cubic yards) of Rock Fill for Gabions placed in the complete and accepted work.

138. <u>613.06 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase "and Gabion Wall" after the word "specified" in the first sentence of the first paragraph.

- 139. <u>613.06 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase ", including gabion baskets," after the word "material" in the third (last) sentence of the first paragraph.
- 140. <u>613.06 BASIS OF PAYMENT</u>, is hereby still further modified by adding the phrase "or rock" after the word "stone" in the first sentence of the second paragraph.
- 141. <u>613.06 BASIS OF PAYMENT</u>, is hereby still further modified by adding the following paragraph:

Geotextile fabric and bedding material for Gabion Wall will be paid for under the appropriate Contract items.

142. <u>613.06 BASIS OF PAYMENT</u>, is hereby still further modified by adding the following pay item:

Payment will be made under:

Pay Item

613.25 Gabion Wall

Pay Unit

Cubic Meter (Cubic Yard)

SECTION 616 - CURBS AND GUTTERS

143. <u>616.05 REPOINTING GRANITE BRIDGE CURB</u>, is hereby made a new Subsection of the Standard Specifications as follows:

616.05 REPOINTING GRANITE BRIDGE CURB. The existing mortar bed and vertical curb joints shall be repointed as shown on the Plans. Mortar shall meet the requirements of Subsection 707.01.

144. <u>616.14 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following as the second paragraph:

The quantity of Repointing Granite Bridge Curb to be measured for payment will be the number of liters (gallons) of mortar applied in the completed and accepted work, measured to the nearest liter (gallon).

- 145. <u>616.14 METHOD OF MEASUREMENT</u>, is hereby corrected by changing the word "portland" to "Portland" in the fifth (last) paragraph.
- 146. <u>616.15 BASIS OF PAYMENT</u>, is hereby modified by adding the following as the second paragraph:

The accepted quantity of Repointing Granite Bridge Curb will be paid for at the Contract unit price per liter (gallon). Payment will be full compensation for furnishing, transporting, handling, and placing the material specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

- 147. <u>616.15 BASIS OF PAYMENT</u>, is hereby corrected by changing the word "portland" to "Portland" in the fourth paragraph.
- 148. <u>616.15 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay item:

Payment will be made under:

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Pay Item

Pay Unit

616.225 Repointing Granite Bridge Curb

Liter (Gallon)

SECTION 620 - FENCES

149. <u>620.02 MATERIALS</u>, is hereby modified by deleting subsection "753.05" for Grounding Electrodes and replacing it with "752.15".

SECTION 621 - TRAFFIC BARRIERS

- 150. <u>621.01 DESCRIPTION</u>, is hereby modified by adding the phrase "repairing," after the phrase "removing,".
- 151. <u>621.02 MATERIALS</u>, is hereby modified by adding the following as the fifth entry in the Subsection listing:

Wire Rope or Cable......713.03

152. 621.09 TERMINALS, is hereby modified by adding the following paragraph:

All new terminal installations shall include a permanent identification of the year of installation and model identified on the Approved Product List or the standard drawing used. Payment will be incidental to the traffic barrier items.

- 153. <u>621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GURADRAIL OR</u> <u>GUIDE POSTS</u>, is hereby modified by deleting the phrase "post assemblies and panel units" and replacing it with the phrase "guardrail components" in the second sentence of the first paragraph.
- 154. 621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GURADRAIL OR <u>GUIDE POSTS</u>, is hereby further modified by deleting the first sentence of the second paragraph in its entirety and replacing it with the following:

Those sections in which height over an extensive portion of the section is greater than 760 mm (30 inches) or less than 675 mm (26 $\frac{1}{2}$ inches) shall be adjusted to a nominal height of 735 mm ±25 mm (29 inches ± 1 inch).

- 155. <u>621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GUARDRAIL OR</u> <u>GUIDE POSTS</u>, is hereby still further modified by deleting the phrase "post assembly replacement or guardrail beam replacement occur" and replacing it with the phrase "guardrail component replacement occurs" in the fourth paragraph.
- 156. <u>621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GURADRAIL OR</u> <u>GUIDE POSTS</u>, is hereby still further modified by adding the following as the sixth and seventh paragraphs:

Offset blocks designated for replacement shall be replaced in-kind. Materials shall be in conformance with the applicable requirements of Subsection 728.01 for either wood, steel, or alternative blockouts.

Cable guardrail repair shall be performed in accordance with VTrans Standard Drawing G-6 and as directed by the Engineer.

157. <u>621.14 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following as the fourth and fifth paragraphs of the Subsection text:

Pay Unit

The quantities of Cable Guardrail J-Bolt, Galvanized and Cable Guardrail Splice Unit to be measured for payment will be the number of units installed in the complete and accepted work.

The quantity of Replacement of Guardrail Cable to be measured for payment will be the number of meters (linear feet) installed in the complete and accepted work.

158. <u>621.14 METHOD OF MEASUREMENT</u>, is hereby further modified by adding the following as the sixth paragraph of the Subsection text:

The quantities of Steel Beam Guardrail Delineator and Steel Beam Guardrail Offset Block to be measured for payment will be the number of each component replaced in the complete and accepted work.

159. <u>621.15 BASIS OF PAYMENT</u>, is hereby modified by adding the following as the second, third, and fourth paragraphs of the Subsection text:

The accepted quantities of Cable Guardrail J-Bolt, Galvanized and Cable Guardrail Splice Unit will be paid for at the Contract unit price for each.

The accepted quantity of Replacement of Cable Guardrail will be paid for at the Contract unit price per meter (linear foot).

The accepted quantities of Steel Beam Guardrail Delineator and Steel Beam Guardrail Offset Block will be paid for at the Contract unit price for each.

- 160. <u>621.15 BASIS OF PAYMENT</u>, is hereby further modified by adding the phrase "removing and disposing of damaged guardrail component(s)," after the phrase "specified," in the first sentence of the seventh paragraph.
- 161. <u>621.15 BASIS OF PAYMENT</u>, is hereby still further modified by adding the following pay items:

Payment will be made under:

Pay Item

621.174 621.175 621.218 621.219	Cable Guardrail J-Bolt, Galvanized Cable Guardrail Splice Unit Replacement of Guardrail Cable Steel Beam Guardrail Delineator Steel Beam Guardrail Offset Block Guardrail Approach Section, Galvanized Type I	Each Each Meter (Linear Foot) Each Each Each
621.71	Guardrail Approach Section, Galvanized Type II	Each
621.726	Guardrail Approach Section, Galvanized 3 Rail Box Beam w/Curb	Each
621.735	Guardrail Approach Section, Steel Beam	Each
621.736	Guardrail Approach Section, Steel Beam w/2.4 m (8 feet) Posts	Each
621.737	Guardrail Approach Section, Galvanized HD Steel Beam	Each
621.738	Guardrail Approach Section, Galvanized HD Steel Beam w/2.4 m (8 feet) Posts	Each
621.748	Guardrail Approach Section to Concrete Combination Bridge Railing, TL-3	Each

SECTION 630 - UNIFORMED TRAFFIC OFFICERS AND FLAGGERS

- 162. <u>630.03 CLOTHING AND EQUIPMENT</u>, part (b) For Flaggers, subpart (1), is hereby modified by replacing the phrase "ANSI 107-1999" with the phrase "ANSI 107-2004" in the first sentence.
- 163. <u>630.03 CLOTHING AND EQUIPMENT</u>, part (d) For All Traffic Control Personnel, subpart (2), is hereby modified by deleting the word "The" and replacing it with the phrase "When deemed necessary by the Engineer, or when noted in the Plans, the" at the beginning of the first sentence.

SECTION 641 - TRAFFIC CONTROL

- 164. <u>641.02 GENERAL CONSTRUCTION REQUIREMENTS</u>, is hereby modified by adding the phrase "implement that plan or" after the phrase "the Contractor may" in the first sentence of the fourth paragraph.
- 165. <u>641.02 GENERAL CONSTRUCTION REQUIREMENTS</u>, is hereby further modified by adding the following as the second sentence of the fourth paragraph:

When the Contractor will implement an Agency-designed traffic control plan, written certification shall be submitted to the Engineer indicating that traffic control will be performed in accordance with the Agency design.

- 166. <u>641.02 GENERAL CONSTRUCTION REQUIREMENTS</u>, is hereby still further modified by changing the word "This" to the word "An" in the second sentence of the fourth paragraph.
- 167. <u>641.02 GENERAL CONSTRUCTION REQUIREMENTS</u>, is hereby still further modified by adding the following paragraph:

When the Contract Documents specify that a site-specific traffic control plan be submitted by the Contractor, Construction Drawings shall be submitted in accordance with Section 105. The submitted site-specific plan shall include, for each phase of construction requiring a significant change in temporary traffic control, a narrative description of the proposed temporary traffic control for each phase (including pedestrian accommodations where appropriate) and the major work activities to be completed in each phase; and a layout for each phase of construction showing existing lane configurations, existing traffic control devices (signs, signals, and pavement markings), driveways, ramps, and highway intersections, and the location of all proposed temporary traffic control devices, flaggers, and UTO's. All pertinent dimensions, such as taper lengths, sign spacing, temporary lane widths, and distance(s) from existing traffic control devices shall be labeled.

- 168. <u>641.03 TRAFFIC CONTROL DEVICES</u>, is hereby modified by deleting the phrase "have three (3) lines of eight (8) characters per line and conform to Section 6F.55 of the MUTCD" and replacing it with the phrase "be used with a maximum of two phases, each consisting of a maximum of 3 lines of 8 characters" in the sixth paragraph.
- 169. <u>641.03 TRAFFIC CONTROL DEVICES</u>, is hereby further modified by deleting the phrase "requirements in Section 6F.56 of" and replacing it with the phrase "Portable Arrow Board requirements in" in the seventh paragraph.

SECTION 646 - RETROREFLECTIVE PAVEMENT MARKINGS

170. <u>646.02 MATERIALS</u>, is hereby modified by deleting the Subsection listing in its entirety and replacing it with the following:

Polyurea Pavement Markings Low VOC Chlorinated Rubber Traffic Paint Low VOC Acetone Based Traffic Paint	708.08(b) 708.08(b)
Epoxy Paint	708.08(c)
Waterborne Traffic Paint	708.08(d)
Methyl-methacrylate Paint	
Glass Beads	
Premium Optics	
Wet Recoverable and Wet Reflective Optics	
Thermoplastic Pavement Markings, Type A	
Thermoplastic Pavement Markings, Type B	
Raised Pavement Markers, Type I	
Pavement Marking Tape, Type A	708.12(a)
Pavement Marking Tape, Type B	
Pavement Marking Tape, Type C	
Pavement Marking Tape, Type D	
Line Striping Targets	708.13(a)
Raised Pavement Markers, Type II	
Temporary Pavement Marking Tape	
Pavement Marking Mask	

- 171. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (a) <u>Placement of Markings</u>, is hereby modified by deleting the first paragraph in its entirety.
- 172. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (a) <u>Placement of Markings</u>, is hereby further modified by deleting the seventh paragraph in its entirety.
- 173. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (a) <u>Placement of Markings</u>, is hereby still further modified by deleting the word "interim" and replacing it with the phrase "permanent or temporary" in the first sentence of the eighth paragraph.
- 174. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (a) <u>Placement of Markings</u>, is hereby still further modified by adding the phrase "edgeline," after the phrase "centerlines," in the first sentence of the eighth paragraph.
- 175. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (a) <u>Placement of Markings</u>, is hereby still further modified by deleting the ninth paragraph in its entirety.
- 176. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (c) <u>Weather Limitations</u>, subpart (2), is hereby modified by being deleted in its entirety and replaced as follows:
 - (2) At the time of application of durable pavement markings, the pavement surface and ambient air temperatures shall be as per the manufacturer's published specified application temperatures, and the dew point shall be 5°F or more below the ambient air temperature. If the manufacturer's published recommendations are unavailable, the pavement surface and ambient air temperatures shall be a minimum of 10°C (50°F).

- 177. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (c) <u>Weather Limitations</u>, subpart (3), is hereby modified by being the word "October" and replacing it with the word "November".
- 178. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (d) <u>Layout and Control</u>, subpart (1) <u>Centerline Markings</u>, is hereby modified by deleting the number "100" and replacing it with the phrase "the same width as the lines" in the fourth sentence of the first paragraph.
- 179. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (d) <u>Layout and Control</u>, subpart (1) <u>Centerline Markings</u>, is hereby further modified by deleting the second (last) paragraph in its entirety.
- 180. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (d) <u>Layout and Control</u>, subpart (2) <u>Edgeline Markings</u>, is hereby modified by deleting the second (last) paragraph in its entirety.
- 181. <u>646.04 APPLICATION OF MARKINGS, GENERAL</u>, part (d) <u>Layout and Control</u>, subpart (3) <u>Dotted Line</u>, is hereby modified by deleting the second (last) paragraph in its entirety.
- 182. <u>646.06 PAINT PAVEMENT MARKINGS</u>, is hereby modified by being re-named WATERBORNE AND LOW VOC CHLORINATED RUBBER AND ACETONE BASED PAINT PAVEMENT MARKINGS.
- 183. 646.06 WATERBORNE AND LOW VOC CHLORINATED RUBBER AND ACETONE BASED PAINT <u>PAVEMENT MARKINGS</u>, is hereby modified by changing the word "Retroflective" to "Retroreflective" in the first sentence of the first paragraph.
- 184. 646.06 WATERBORNE AND LOW VOC CHLORINATED RUBBER AND ACETONE BASED PAINT PAVEMENT MARKINGS, is hereby further modified by deleting the phrase "shall have a dry film thickness of 380 ±25 µm (15 ±1 mil) for paint, unless otherwise specified, and" in the third (last) sentence of the first paragraph.
- 185. 646.06 WATERBORNE AND LOW VOC CHLORINATED RUBBER AND ACETONE BASED PAINT <u>PAVEMENT MARKINGS</u>, is hereby still further modified by adding the following as the third paragraph:

The markings shall be applied at a rate to create a uniform wet film thickness of 558.8 μ m (22 mils) with an allowable range of ±50.8 μ m (±2 mils) unless otherwise specified in the Contract Documents. Minimum application rates are 1.7 square meters per liter (70 square feet per gallon) with glass beads applied at a rate of 960 grams per liter (8.0 lb per gallon) of paint. The Contractor shall provide the Engineer and the Materials Section with the optic drop on rates of all optic materials and daily binder application rates.

- 186. <u>646.06 WATERBORNE AND LOW VOC CHLORINATED RUBBER AND ACETONE BASED PAINT</u> <u>PAVEMENT MARKINGS</u>, is hereby still further modified by deleting the fourth and fifth (last) paragraphs in their entirety.
- 187. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, is hereby modified by adding the following as the third sentence of the first paragraph:

Durable pavement markings shall be installed within two weeks of the placement of the wearing course.

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- 188. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, is hereby further modified by changing punctuation at the end of the third sentence of the first paragraph from ":" to ".".
- 189. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, is hereby still further modified by adding the following at the end of the first paragraph:

The Contractor shall select optics that conform with Subsections 708.09(a), 708.09(b), and 708.09(c). The Contractor shall provide the Engineer and the Materials Section with the daily optic drop on rates of all optic materials and daily binder application rates. The Contractor shall perform all quality control activities and provide to the Engineer on a daily basis all retroreflectivity measurements collected. The Agency will perform all acceptance testing activities. The Engineer will select an evaluation section(s) for the purpose of collecting pavement marking retroreflectivity measurements. Retroreflectivity measurements shall be performed in accordance with ASTM D7585, as modified by Table 646.07A.

PAVEMENT MARKING TYPE	EVALUATION SECTION(S) REQUIRED*	EVALUATION SECTION LENGTH m (feet)	MEASUREMENTS REQUIRED
Long Lines	1 per 3.2 km (2 miles)	120 (400)	20
Dashed Lines	1 per 3.2 km (2 miles)	120 (400)	20 (2 per dashed line)

TABLE 646.07A - EVALUATION SECTION CRITERIA

*Projects less than 3.2 km (2 miles) in length shall have a minimum of one (1) evaluation section.

Each spot measurement for all yellow centerline retroreflectivity shall be performed in both directions at each spot location and averaged for acceptance. For long lines and dashed lines, if the average retroreflectivity as determined in accordance with ASTM D7585 fails to meet the minimum retroreflectivity requirements, or if 25% of the individual tests fail to meet the minimum retroreflectivity requirements, the entire length represented by the evaluation section shall be remarked and re-tested until in compliance, at no additional cost to the Agency.

- 190. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (a) <u>Pavement Marking Tape, Type I</u>, is hereby modified by being deleted in its entirety and replaced as follows:
 - (a) <u>Pavement Marking Tape, Type A</u>. Type A tape for pavement markings is classified as high performance or high durable, and nonremovable. Type A tape shall conform to the requirements of Subsection 708.12(a).

Type A tapes, when used as a final durable marking, shall be applied only by being inlaid in the bituminous pavement during the rolling operation or in a recess as defined in Subsection 646.09, and shall be applied in accordance with the manufacturer's requirements. Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.

191. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (b) <u>Epoxy Paint</u>, is hereby modified by being re-designated as part (e).

- 192. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (c) <u>Thermoplastic</u>, is hereby modified by being re-designated as part (f) Extruded Thermoplastic.
- 193. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (d) <u>Polyurea Paint</u>, is hereby modified by being re-designated as part (h).
- 194. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (e) <u>Methyl-methacrylate Paint</u>, is hereby modified by being re-designated as part (i).
- 195. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, is hereby further modified by adding the following new parts (b), (c), and (d):
 - (b) Pavement Marking Tape, Type B. Type B tape for pavement markings is classified as non-removable, used in long line applications. Type B tape shall conform to the requirements of Subsection 708.12(b).

Type B tapes, when used as a final durable marking, shall be applied only by being inlaid in the bituminous pavement during the rolling operation or in a recess as defined in Subsection 646.09, and shall be applied in accordance with the manufacturer's requirements. Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.

(c) <u>Pavement Marking Tape, Type C</u>. Type C tape for pavement markings is classified as non-removable, used in intersection applications. Type C tape shall conform to the requirements of Subsection 708.12(c).

Type C tapes, when used as a final durable marking, shall be applied only by being inlaid in the bituminous pavement during the rolling operation or in a recess as defined in Subsection 646.09, and shall be applied in accordance with the manufacturer's requirements.

(d) <u>Pavement Marking Tape, Type D</u>. Type D tape for pavement markings is classified as non-removable, used for symbols and legends applications. Type D tape shall conform to the requirements of Subsection 708.12(d).

Type D tapes, when used as a final durable marking, shall be applied only by being inlaid in the bituminous pavement during the rolling operation or in a recess as defined in Subsection 646.09, and shall be applied in accordance with the manufacturer's requirements. Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.

- 196. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (e) <u>Epoxy Paint</u>, is hereby modified by deleting the fifth (last) sentence in its entirety.
- 197. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (e) <u>Epoxy Paint</u>, is hereby further modified by adding the following sentences:

Epoxy paint shall be applied at a rate to create a uniform wet film in place thickness of 558.8 μ m (22 mils) with an allowable range of ±50.8 μ m (±2 mils) unless otherwise specified in the Contract Documents. Minimum application rates are 1.7 square meters per liter (70 square feet per gallon). Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.

- 198. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, is hereby modified by replacing the phrase "708.10" with the phrase "708.10(a)" at the end of the first paragraph.
- 199. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, is hereby further modified by adding the following as the third paragraph:

Thermoplastic markings shall be applied at a rate to create a uniform hot film in place thickness of 2667 μ m (105 mils) with an allowable range of ± 127 μ m (±5 mils) unless otherwise specified in the Contract Documents. Minimum application rates are 0.36 square meters per liter (15 square feet per gallon).

- 200. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (1) <u>Thermoplastic Application Equipment</u>, a. <u>Mobile Applicator Equipment</u>, is hereby modified by deleting the phrase ", between 2.4 and 2.5 mm (96 and 100 mils) thick" and replacing it with the phrase "with a uniform hot film in place thickness of 2667 μm (105 mils), with an allowable range of ± 127 μm (±5 mils)" in the second sentence of the second paragraph.
- 201. 646.07 DURABLE PAVEMENT MARKINGS, part (f) Extruded Thermoplastic, subpart (1) Thermoplastic Application Equipment, b. Portable Applicator Equipment, is hereby modified by deleting the phrase "between 2 and 2.5 mm (80 and 100 mils) thick" and replacing it with the phrase "with a uniform hot film in place thickness of 2667 μm (105 mils) with an allowable range of ± 127 μm (±5 mils)" in the fourth sentence.
- 202. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (2) <u>Application Requirements</u>, b. <u>Thermoplastic Composition</u>, is hereby modified by replacing the phrase "708.10" with the phrase "708.10(a)".
- 203. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (2) <u>Application Requirements</u>, d. <u>Extruded Markings</u>, is hereby modified by deleting the phrase "thickness between 2.4 and 2.5 mm (96 and 100 mils)" and replacing it with the phrase "uniform hot film in place thickness between 2.54 and 2.794 mm (100 and 110 mils)".
- 204. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (2) <u>Application Requirements</u>, e. <u>Beads</u>, is hereby modified by being re-named <u>Optics</u>.
- 205. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (2) <u>Application Requirements</u>, e. <u>Optics</u>, subpart 1., is hereby modified by adding the phrase "shall be" after the phrase "Type I".
- 206. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (2) <u>Application Requirements</u>, e. <u>Optics</u>, subpart 1., is hereby further modified by adding the phrase "intermix of the" after the phrase "incorporated into the".
- 207. 646.07 DURABLE PAVEMENT MARKINGS, part (f) Extruded Thermoplastic, subpart (2) Application Requirements, e. Optics, subpart 1., is hereby still further modified by deleting the numbers "28" and "30" and replacing them with the numbers "30" and "40", respectively.
- 208. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (f) <u>Extruded Thermoplastic</u>, subpart (2) <u>Application Requirements</u>, e. <u>Optics</u>, subpart 2., is hereby modified by being deleted in its entirety and replaced as follows:

- 2. Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.
- 209. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, is hereby still further modified by adding the following new part (g):
 - (g) <u>Preformed Thermoplastic</u>. Approved preformed thermoplastic marking materials shall be one of the preformed thermoplastic markings listed on the Approved Products List on file with the Agency's Research and Development Section under Subsection 708.10(b).
- 210. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (h) <u>Polyurea Paint</u>, is hereby modified by deleting the second sentence in its entirety.
- 211. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (h) <u>Polyurea Paint</u>, is hereby further modified by adding the following sentences:

Polyurea paint shall be applied at a rate to create a uniform wet film in place thickness of 558.8 μ m (22 mils) with an allowable range of ±50.8 μ m (±2 mils) unless otherwise specified in the Contract Documents. Minimum application rates are 1.7 square meters per liter (70 square feet per gallon). Initial dry retroreflectivity minimums for surface-applied polyurea shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings. Initial dry retroreflectivity minimums for recessed polyurea shall be 600 mcdl/lx/m² for yellow markings and 800 mcdl/lx/m² for white markings.

- 212. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (i) <u>Methyl-methacrylate Paint</u>, is hereby modified by deleting the second sentence in its entirety.
- 213. <u>646.07 DURABLE PAVEMENT MARKINGS</u>, part (i) <u>Methyl-methacrylate Paint</u>, is hereby further modified by adding new subpart (1) as follows:
 - (1) Application Requirements.
 - a. <u>Spray Applied Markings</u>. All spray applied markings shall be applied at a rate to create a uniform wet film in place thickness of 762 µm (30 mils) with an allowable range of ±50.8 µm (±2 mils) unless otherwise specified in the Contract Documents. Minimum application rates are 1.4 square meters per liter (55 square feet per gallon). Initial dry retroreflectivity minimums for surface spray applied methyl-methacrylate shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings. Initial dry retroreflectivity minimums for recessed methyl-methacrylate shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.
 - b. <u>Extruded Markings</u>. All extruded markings shall be applied at a rate to create a uniform wet film in place thickness of 2286 µm (90 mils) with an allowable range of ±127 µm (±5 mils) unless otherwise specified in the Contract Documents. Minimum application rates are 0.45 square meters per liter (18.3 square feet per gallon). Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.

- c. <u>Structured Markings</u>. All structured markings shall be applied at a rate to create a uniform wet film in place thickness as per the manufacturer's recommendations unless otherwise specified in the Contract Documents. Initial dry retroreflectivity minimums shall be 300 mcdl/lx/m² for yellow markings and 400 mcdl/lx/m² for white markings.
- 214. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, is hereby modified by deleting the phrase "Type II" (first entry) and replacing it with the phrase "Temporary Pavement Marking" in the first sentence.
- 215. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, part (a) <u>Pavement Marking Tape</u>, <u>Type</u> II, is hereby modified by being re-named Temporary Pavement Marking Tape.
- 216. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, part (a) <u>Temporary Pavement Marking</u> <u>Tape</u>, is hereby modified by deleting the first sentence in its entirety and replacing it as follows:

This tape for pavement markings is classified as temporary and is removable.

- 217. 646.08 TEMPORARY PAVEMENT MARKINGS, part (a) Temporary Pavement Marking Tape, second sentence, is hereby modified by deleting the phrase "Type II" and replacing it with the word "The" and by deleting the phrase "Subsection 708.12(b)" and replacing it with the phrase "Subsection 708.13(c)".
- 218. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, part (b) <u>Pavement Marking Mask</u>, is hereby modified by deleting the phrase "Subsection 708.12(c)" and replacing it with the phrase "Subsection 708.13(d)" in the second sentence.
- 219. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, part (c) <u>Raised Pavement Markers</u>, <u>Type II</u>, is hereby modified by adding the following sentence to the second (last) paragraph:

They shall conform to the requirements of Subsection 708.13(b) and shall be installed in accordance with the manufacturer's requirements.

- 220. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, part (d) <u>Line Striping Targets</u>, is hereby modified by being deleted in its entirety and replaced as follows:
 - (d) <u>Line Striping Targets</u>. Line striping targets are intended to be substitutes for pavement markings for not longer than 14 calendar days. Line striping targets shall be maintained and replaced as needed or as directed by the Engineer, until replaced by a temporary or permanent pavement marking.

Line striping targets of the color shown on the Plans or directed by the Engineer shall be installed as described below or as directed by the Engineer.

For solid longitudinal pavement markings, line striping targets shall be placed at 3 m (10 foot) intervals. For double centerline markings, line striping targets shall be paired. For dashed pavement markings, line striping targets shall be placed in groups of 3 spaced at 1.5 m (5 feet), with the groups separated by 10 m (30 foot) spaces, or as determined by the Engineer.

Line striping targets shall not be used to delineate passing zones on two lane non-divided highways.

Line striping targets shall conform to the requirements of Subsection 708.13(a) and shall be installed in accordance with the manufacturer's requirements.

221. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, is hereby further modified by deleting the first sentence of the last paragraph in its entirety and replacing it as follows:

Temporary markings on the wearing course of pavement that remain in place for fewer than fourteen calendar days shall be Temporary Pavement Marking Tape, Type II raised pavement markers, or line striping targets.

- 222. <u>646.08 TEMPORARY PAVEMENT MARKINGS</u>, is hereby still further modified by deleting the word "seven" and replacing it with the word "fourteen" in the second (last) sentence of the last paragraph.
- 223. <u>646.09 OTHER RELATED MARKINGS</u>, part (a) <u>Pavement Marking Recess</u>, is hereby modified by deleting the phrase "provided is 125% of the material marking thickness" and replacing it with the phrase "meets the requirements of Table 646.09A" in the first sentence.
- 224. <u>646.09 OTHER RELATED MARKINGS</u>, part (a) <u>Pavement Marking Recess</u>, is hereby further modified by deleting the last sentence in its entirety.
- 225. <u>646.09 OTHER RELATED MARKINGS</u>, part (a) <u>Pavement Marking Recess</u>, is hereby still further modified by adding the following paragraphs and Table:

The bottom of the recess shall have a smooth, flat finished surface. The use of gang stacked Diamond cutting blades is required for asphalt pavement surfaces. The spacers between blade cuts shall be such that there will be less than a 254 μ m (10 mil) rise in the finished groove between the blades.

Recesses shall be clean, dry, and free of laitance, oil, dirt, grease, paint, or other foreign contaminants prior to application of the pavement markings. The Contractor shall re-clean grooves, as necessary, prior to application of any primer or permanent markings. Depth plates shall be provided by the Contractor to assure that desired groove depth is achieved.

		r	
MARKING MATERIAL	STANDARD GLASS BEAD RECESS DEPTH µm (mils)	PREMIUM OPTIC RECESS DEPTH µm (mils)	
Permanent Waterborne Paint	762-1016 (30-40)	762-1016 (30-40)	
Spray Applied Methyl- methacrylate	1016-1270 (40-50)	1778-2286 (70-90)	
Extruded Methyl- methacrylate	2540-2794 (100-110)	2540-2794 (100-110)*	
Structured Methyl- methacrylate	As recommended by manufacturer	As recommended by manufacturer*	
Thermoplastic	2540-2794 (100-110)	2540-2794 (100-110)*	
Polyurea	762-1270 (30-50)	1778-2286 (70-90)	
Ероху	762-1270 (30-50)	1778-2286 (70-90)	
Permanent Tape	As recommended by manufacturer	As recommended by manufacturer	
*Thermoplastic and Methyl-methacrylate with			
wet recoverable or wet reflective elements shall have a recess depth of 3048-3302 μm (120-130 mils).			

TABLE 646.09A - PAVEMENT MARKING RECESS DEPTH

226. <u>646.14 BASIS OF PAYMENT</u>, part (a) <u>Paint Pavement Markings</u>, is hereby modified by adding the following pay item ranges:

646.200 to 646.209 100 mm (4 inch) White LineMeter (Linear Foot)646.2110 to 646.2119 100 mm (4 inch) Yellow LineMeter (Linear Foot)646.2140 to 646.2149 150 mm (6 inch) White LineMeter (Linear Foot)646.2150 to 646.2159 150 mm (6 inch) Yellow LineMeter (Linear Foot)646.221 to 646.229 200 mm (8 inch) Yellow LineMeter (Linear Foot)646.231 to 646.239 200 mm (8 inch) Yellow LineMeter (Linear Foot)646.241 to 646.249 300 mm (12 inch) White LineMeter (Linear Foot)646.251 to 646.259 300 mm (12 inch) Yellow LineMeter (Linear Foot)646.261 to 646.269 600 mm (24 inch) Stop BarMeter (Linear Foot)646.311 to 646.319 Crosswalk MarkingMeter (Linear Foot)646.321 to 646.329 Railroad Crossing SymbolEach

SECTION 653 - EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

- 227. <u>653.15 BIOTECHNICAL SLOPE PROTECTION</u>, part (a) <u>Erosion Logs</u>, is hereby modified by being deleted in its entirety and replaced with the following:
 - (a) Erosion Logs. Erosion logs shall be installed to intercept water flow and collect sediment and associated pollutants by settling and filtering. Erosion logs may be placed over bare or mulched soils or rolled erosion control products; around inlet and outlets; as check dams in unvegetated ditches, slope interrupters on steep

slopes, and perimeter control; and along stream banks as a base for plantings. Some types of erosion logs (typically those with a heavier filtering medium such as compost) can be used in applications where underlying conditions are unsuitable (frozen ground, paved surfaces, sensitive plantings areas, etc.) for trenching.

Prior to placing erosion logs, the ground surface shall be properly graded and compacted and free of depressions or obstructions such as tree roots, protruding stones, or other foreign matter.

Erosion logs shall be installed in accordance with the manufacturer's installation guidelines, staking pattern guide, and details based upon the intended use on the construction site.

The Contractor shall remove accumulated sediment when it has reached 1/2 of the effective height of the log, or as directed by the Engineer. Alternatively, a new erosion log may be placed on top of and slightly behind the original one creating more sediment storage capacity. Erosion logs shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased.

When used as a temporary erosion prevention and sediment control measure, erosion logs may be cut open and left in place, but only if the fill material and netting are 100% biodegradable and the material is spread or graded flat so as to not cause concentration of future surface runoff.

SECTION 656 - PLANTING TREES, SHRUBS, AND VINES

- 228. <u>656.02 MATERIALS</u>, is hereby modified by deleting the first entry in the Subsection listing (for "Barrier Fence") in its entirety.
- 229. <u>656.02 MATERIALS</u>, is hereby further modified by adding the following as the second paragraph (directly below the Subsection listing):

Barrier Fence shall meet the requirements of Section 653.

SECTION 677 - OVERHEAD TRAFFIC SIGN SUPPORTS

- 230. <u>677.01 DESCRIPTION</u>, is hereby modified by adding the phrase "and removing and disposing of existing overhead traffic sign supports," after the phrase "supports,".
- 231. <u>677.02 MATERIALS</u>, is hereby modified by deleting subsection "753.05" for Grounding Electrodes and replacing it with "752.15".
- 232. 677.03 GENERAL, is hereby modified by adding the following paragraph:

Where existing overhead traffic sign supports are to be removed, the Contractor shall remove and dispose of the entire sign assembly, including concrete footings, to a depth of 450 mm (18 inches) below existing grade. Areas of ground disturbance shall be restored to the satisfaction of the Engineer.

233. <u>677.04 GROUNDING</u>. is hereby modified by deleting the second and third sentences of the first paragraph, and also deleting the second and third paragraphs in their entirety.

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- 234. <u>677.04 GROUNDING</u>. is hereby further modified by adding the phrase "in accordance with section 678" at the end of the first sentence of the first paragraph.
- 235. <u>677.05 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following paragraph:

The quantity of Remove Existing Overhead Sign Assembly of the type specified to be measured for payment will be the number of each assembly removed in the complete and accepted work.

236. <u>677.06 BASIS OF PAYMENT</u>, is hereby modified by adding the following paragraphs and pay items:

The accepted quantity of Remove Existing Overhead Sign Assembly of the type specified will be paid for at the Contract unit price per each. Payment will be full compensation for removing and disposing of assembly components, including concrete footings; for performing any excavation necessary; for restoring areas of ground disturbance; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Costs associated with providing traffic control and/or flaggers for performing the work will be paid under the appropriate Contract item(s).

Payment will be made under:

Pay Item

Pay Unit

677.30 Remove Existing Overhead Sign Assembly, Cantilever Each 677.35 Remove Existing Overhead Sign Assembly, Each Multi-Support

SECTION 678 - TRAFFIC CONTROL SIGNALS

- 237. <u>678.01 DESCRIPTION</u>, is hereby modified by adding the phrase ", and removing existing traffic control systems" after the word "system" in the first paragraph.
- 238. <u>678.02 MATERIALS</u>, is hereby modified by deleting the following from the Subsections listing:

239. <u>678.02 MATERIALS</u>, is hereby further modified by adding the following to the Subsection listing at the appropriate location following the subsections sequence:

240. <u>678.02 MATERIALS</u>, is hereby further modified by deleting "convers" and replacing it with the word "covers" in the second sentence of the last paragraph of the Subsection text.

- 241. <u>678.07 DETECTORS AND CONTROLLERS</u>, is hereby corrected by deleting "manufacturer" and replacing it with the word "manufacturer" in the first sentence of the second (last) paragraph.
- 242. <u>678.11 INSTALLATION</u>, sixteenth paragraph, part (a), is hereby modified by adding the following:

The Contractor shall remove any equipment to be salvaged or reused in such a manner that the equipment is not damaged.

243. <u>678.13 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following paragraph:

The quantity of Removal of Existing Traffic Control Signal System to be measured for payment will be for each traffic control signal system removed in the complete and accepted work.

- 244. <u>678.14 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase "all removal, disposal, and salvage and/or reuse of existing system equipment and components," after the phrase "Electrical Wiring," in the second sentence of the first paragraph.
- 245. <u>678.14 BASIS OF PAYMENT</u>, is hereby further modified by adding the following paragraph and pay item:

The accepted quantity of Removal of Existing Traffic Control Signal System will be paid for at the Contract unit price per each. Payment will be full compensation for removing and handling the existing traffic control signal system components as specified in the Contract Documents and for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

678.45 Removal of Existing Traffic Control Signal Each System

SECTION 679-STREET LIGHTING

246. <u>679 STREET LIGHTING</u>, is hereby modified by deleting in its entirety and replacing with the following:

<u>679.01 DESCRIPTION</u>. This work shall consist of removing, furnishing, and installing the street lighting components necessary to provide a complete and operational system.

Street light assemblies shall consist of Light Pole Foundations, Transformer Bases, Light Poles, Bracket Arms and Luminaires.

679.02 MATERIALS. Materials shall meet the requirements of the following Subsections:

Grounding Electrodes	752.15
Light Pole Foundations	753.06
Transformer Bases	753.07
Light Poles	753.08
Bracket Arms	753.09
Luminaires	753.10

679.03 GENERAL. Street lights shall be installed as specified in the Contract Documents.

Street Lights shall be designed to withstand an equivalent wind load of 160 KPH (100 MPH) velocity with an allowable angular deflection of 70 minutes or less.

All wiring shall meet the current National Electric Code.

Street lighting design shall conform to the current edition of Standard Specifications for the Structural Supports for Highway Signs, Luminaires and Traffic Signals, published by AASHTO, and its latest revisions.

679.04 SUBMITTALS. The Contractor shall submit Fabrication Drawings in accordance with Subsection 105.03. The submittal shall contain the following information, at a minimum:

- (a) Wiring.
 - (1) Conductor material, insulation type, voltage rating and temperature rating.
- (b) Light Pole Foundations.
 - (1) Dimensions and material specifications for all hardware used to mount the transformer base to the Light Pole Foundation.
 - (2) For pre-cast Light Pole Foundations: complete design details and material specifications for Light Pole Foundations.

(c) Transformer Bases.

- (1) Dimensions for bottom and top of Transformer Base, height of Transformer Base, Transformer Base door dimensions, bolt pattern for mounting the Transformer Base to the Light Pole Foundation and type of Transformer Base. Including documentation indicating the Transformer Base meets the AASHTO standards.
- (2) Dimensions and material specifications for all hardware used to mount the Light Pole to the Transformer Base.
- (d) Light Poles.
- Dimensions for pole height, mounting height, pole diameter (top and bottom), handhole (size and location), anchor base, bolt circle, and mounting bolt size.
- (2) Dimensions for the bolt pattern for mounting the light pole to the transformer base.
 - (a) Material specifications for all components of the light pole.
 - (b) Welding information in accordance with Subsection 506.10.

(c) The welding process and procedures and the materials used to make the two continuous circumferential welds, one attaching the

top of the anchor base to the pole shaft and the other attaching the bottom of the pole shaft to the inside of the shoe base.

(d) Special features as shown on the Plans, such as finish or color.

(e) Bracket Arms.

(1) Dimensions for Bracket Arm length and diameter.

- (2) Details for connection of Bracket Arm to Light Pole (details shall be specific to the pole material the arm is to be mounted on).
- (3) Welding information in accordance with Subsection 506.10.
- (4) Material specifications for Bracket Arm and mounting hardware.

(f) Luminaires.

- (1) Luminaire Data
- a. Manufacturer
- b. Model Number
- c. Wattage
- d. Lamp type (with number of LEDs)
- e. Any other features, such as finish, special wire access, etc.
- f. BUG Rating
- g. Operating Amperage
- h. Street Lighting Control Device
- (2) <u>Photometric Data</u> (to be supplied when a street lighting design is not included in the Plans or when changes to the Plans are proposed).
- a. IES Distribution type.
- b. Utilization curve.
- c. Iso-lux curves.
- d. Mounting height factor.
- e. Maintenance factor.

679.05 BRACKET ARM. Bracket Arms shall be installed as shown in the Contract Documents.

The length and mounting height of Bracket Arms shall be as shown on the approved drawings. The Bracket Arm shall be mounted perpendicular to the centerline of roadway, unless otherwise specified. The Bracket Arm shall be provided with a 50 mm (2inch) slip-fit mounting of sufficient length to accommodate the Luminaire.

All welds shall conform to the requirements of Subsection 506.10, no field welds shall be allowed.

<u>679.06 LUMINAIRE</u>. Luminaires shall meet the requirements of the current VTrans Lighting Design Guide unless otherwise specified in the Plans.

<u>679.07 STREET LIGHT ASSEMBLY</u>. Street Light Assemblies shall be installed as shown in the Contract Documents and shall include the following:

(a) Light Pole Foundation. Light Pole Foundations shall be installed as shown in the Contract Documents.

Excavation and Backfill shall be in accordance with Section 203

- (b) <u>Transformer Bases</u>. Transformer Bases shall be installed on Light Pole Foundations as shown in the Contract Documents. The bottom plate of the Transformer Base shall have a grounding bolt and nut, easily accessible from the transformer base door. Transformer Bases, and all wiring contained in the Transformer Bases, shall meet the requirements of the current edition of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, and its latest revisions, for breakaway features.
- (C) <u>Light Poles</u>. Light Poles shall be mounted on Transformer Bases as shown in the Contract Documents.

The anchor base shall be attached to the pole shaft by two continuous welds, one inside the base at the end of the shaft and the other on the outside at the top of the anchor base. All welds shall conform to the requirements of Subsection 506.10, no field welding shall be allowed.

Light Poles shall be plumb and level. A 100 by 150 mm (4 inch x 6 inch) handhole, complete with cover and hardware shall be located approximately 450 mm (18 inches) above the top of the Transformer Base directly above the transformer base door. A lip shall be provided around the handhole opening to prevent the cover from tipping and falling inside the hole. A grounding bolt and nut, easily accessible from the handhole, shall be located inside the pole shaft.

The pole cap shall be securely held in place.

- (a) Bracket Arms. Bracket Arms shall be as specified herein.
- (b) Luminaires. Luminaires shall be as specified herein.

679.08 REMOVE STREET LIGHT ASSEMBLY. The Contactor shall remove the entire Street Light Assembly as identified in the Plans, including the light pole foundation, transformer base, light pole, bracket arm, luminaire, wiring and all other incidentals.

The Street Light Assembly shall become property of the Contractor. All components of the Street Light Assembly shall be removed from the project and properly disposed of by the Contractor.

All voids resulting from this work shall be backfilled in accordance with Subsection 203.

679.09 REMOVE AND RESET LIGHT POLE. The Contractor shall remove, store and reset the transformer base, light pole, bracket arm, luminaire, wiring and other incidentals as shown in the Plans. All light poles shall be carefully separated from the light pole foundation on which they are mounted.

Light poles shall be completely removed from the light pole foundation, transported and stored at locations specified in the Contract Documents or as ordered by the Engineer and reset on the light pole foundation at the original location.

679.10 STREET LIGHTING CONTROL DEVICES. An Astronomical Clock shall be provided for each wired group of Street Lights and installed at the power Stanchion for each group, unless otherwise noted in the Plans.

Astronomical Clocks shall have two circuit scheduling, at least 20 set points for individual programs for each day of the week, be capable of daylight savings time adjustments, have a manual override and a power outage backup system with permanent schedule retention and memory module.

All Astronomical Clocks shall be placed in an enclosure meeting NEMA 3R standards and all shall be the same for the project, a mix of clocks will not be allowed for new installations.

679.11 POWER DROP STANCHION, STREET LIGHTING. Power Drop Stanchion, Street Lighting shall conform to the requirements of Subsection 678.08.

<u>679.12 ELECTRIC WIRING</u>. All wiring shall be in accordance with the NEC and Section 678.

All current carrying conductors shall have a fusible disconnect in the base of each Light Pole accessible from the hand hole or breakaway base.

Conductors shall not have any unnecessary kinks or bends. End caps, when necessary, of the appropriate size for the service conductors shall be installed at all termination points in pull boxes, junction boxes and pole bases.

679.13 FINISH. All Transformer Bases, Light Poles, Bracket Arms and Luminaires shall have either a powder coating or anodized aluminum finish, all finishes shall be factory applied finishes.

Anodized aluminum coatings shall have a minimum coating thickness of 1.0 mil.

Powder coatings shall be a thermosetting material, with a minimum film thickness of 4.0 mil. The powder coating process shall have pre-treatment steps that ensure complete cleaning and adherence of the coating materials, including at least the following steps: hot alkaline wash, rinse, hot phosphoric acid etching, and final rinse. It shall be free of blisters, cracks, stains and similar defects.

679.14 ACCEPTANCE.

(a) Prior to acceptance of the street lighting system the system shall successfully complete a test period. The street lighting systems shall be completely operable and energized for 30 consecutive days without any defects in the system for successful completion of the test period. All required adjustments to the Street Lighting Control Device, if required, shall be completed to the satisfaction of the Engineer prior to acceptance.

(b) The Contractor shall be responsible for all power costs through project acceptance.

679.15 METHOD OF MEASUREMENT.

The quantity of Bracket Arm to be measured for payment will be the number of each bracket arm installed in the complete and accepted work.

The quantity of Luminaire to be measured for payment will be the number of each luminaire installed in the complete and accepted work.

The quantity of Street Light Assembly to be measured for payment will be the number of each Street Light Assembly installed in the complete and accepted work.

The quantity of Remove Street Light Assembly to be measured for payment will be the number of each Street Light Assembly removed in the complete and accepted work.

The quantity of Remove and Reset Light Pole to be measured for payment will be the number of each Salvaged Light Pole removed, stored, and erected in the complete and accepted work.

The quantity for Street Lighting Control Device to be measured for payment will be the number of each Street Lighting Control Device installed in the complete and accepted work.

The accepted quantity of Power Drop Stanchion, Street Lighting to be measured for payment will be the number of each stanchion installed in the complete and accepted work.

679.16 BASIS OF PAYMENT. Street lighting item prices shall be full compensation for furnishing, transporting, handling, and placing the materials specified. When a Power Drop Stanchion, Street Lighting is not a contract item, connections to the power source, circuit testing, and the furnishing of all labor, tools, equipment, and incidentals necessary to complete the work will be incidental to other items.

The accepted quantity of Bracket Arm shall be full compensation for the bracket arm, wiring within the bracket arm, hardware required to mount the bracket are to light pole and other incidentals as necessary to complete the work. Bracket arm shall be paid for at the Contract unit price for each.

The accepted quantity of Luminaire shall be full compensation for the luminaire housing, ballasts, lamps, photoelectric control device and other incidentals as necessary to complete the work. Luminaire shall be paid for at the Contract unit price for each.

The accepted quantity of Street Light Assembly shall be full compensation for the light pole foundation, transformer base, light pole, bracket arm luminaire, wiring within the Street Light Assembly and other incidentals as necessary to complete the work. Street Light Assembly shall be paid for at the Contract unit price for each.

The accepted quantity of Remove Street Light Assembly shall be full compensation for removing and disposing a street light assembly, including light pole

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foundation, transformer base, light pole, bracket arm, luminaire, wiring and other incidentals. Remove Street Light Assembly shall be paid for at the contract unit price for each.

The accepted quantity of Remove and Reset Light Pole shall be full compensation for removing, storing and installing a salvaged light pole, including transformer base, light pole, bracket arm, luminaire wiring and other incidentals as necessary to complete the work. Remove and Reset Light Pole shall be paid for at the contract unit price for each.

The accepted quantity of Street Lighting Control Device shall be full compensation for installing a fully functional Street Lighting Control Device at the Contract unit price for each.

The accepted quantity of Power Drop Stanchion, Street Lighting shall be full compensation for all work, materials and incidentals necessary to complete the work. Power Drop Stanchion, Street Lighting shall be paid for at the Contract unit price for each.

Circuit testing and connections to power sources will not be paid for separately but will be considered incidental to the Contract items that include the costs of wiring.

The cost of furnishing and installing electrical conduit, wired conduit, electrical wiring, electrical conduit sleeve, pull boxes, and junction boxes, when not covered under the Section 678, shall be considered incidental to items in this section.

Payment will be made under:

Pay Item

Pay Unit

679.24	Remove Street Light Assembly	Each
679.25	Remove and Reset Light Pole	Each
679.46	Street Light Assembly	Each
679.47	Bracket Arm	Each
679.50	Luminaire	Each
679.54	Street Lighting Control Device	Each
679.55	Power Drop Stanchion, Street Lighting	Each

SECTION 700 - GENERAL

247. <u>700.01 GENERAL STATEMENT</u>., is hereby modified by being deleted in its entirety and replaced as follows:

700.01 GENERAL STATEMENT. Where the Contract requires that materials conform to the requirements of AASHTO, ASTM, or other specifications, the latest publications and all modifications thereto in effect on the date of the Invitation for Bids shall apply.

Materials shall be accepted in accordance with the Agency's Quality Assurance Program and the *Materials Sampling Manual*.

Whenever there is a Subsection entitled "General Requirements" within any Division 700 Section, the requirements of that Subsection are applicable to all other Subsections in that Section.

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248. <u>700.02 MATERIALS CERTIFICATIONS</u> is hereby modified by deleted in its entirely and replaced as follows:

700.02 THIS SUBSECTION RESERVED.

SECTION 702 - BITUMINOUS MATERIALS

- 249. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, part (a) <u>Properties</u>, is hereby modified by adding the abbreviation "(PGB)" after the word "binder" in the first sentence.
- 250. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, part (a) <u>Properties</u>, is hereby further modified by deleting the second sentence of the first paragraph in its entirety and replacing it with the following:

PGB shall be asphalt prepared solely by the refining of crude petroleum and shall meet the requirements of AASHTO M 320 from facilities compliant with AASHTO R 29 without the addition of modifiers.

251. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, part (a) <u>Properties</u>, is hereby still further modified by adding the following as the third and fourth (last) sentences of the second paragraph:

If additives are used for the modification of asphalt, preapproval is required. The addition of any material not normally obtained during the initial refining process shall constitute modified asphalt and shall be labeled appropriately.

252. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, part (a) <u>Properties</u>, is hereby still further modified by adding the following as the third (last) paragraph:

The performance graded binder shall be manufactured in accordance with the approved Quality Control Plan. The manufacturer shall remain in compliance with the plan, including all notifications, sampling, testing, and reporting requirements.

- 253. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, part (b) Pretest, is hereby modified by being re-designated as part (c).
- 254. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, part (c) Certification, is hereby modified by being re-designated as part (d).
- 255. <u>702.02 PERFORMANCE-GRADED ASPHALT BINDER (PREPARED FROM PETROLEUM)</u>, is hereby modified by adding the following new part (b):
 - (b) <u>Effect of Approval</u>. VTrans reserves its right to remove its approval of any PGB lot if, in the sole discretion of the Agency, such approval was based on a material non-disclosure by the PGB supplier.

SECTION 704 - AGGREGATES

256. 704.10 AGGREGATE FOR BITUMINOUS CONCRETE PAVEMENT, part (a) Aggregate for <u>Marshall Bituminous Concrete Pavement</u>, subpart (1) <u>Grading</u>, c. <u>Recycled</u> <u>Asphalt Pavement (RAP)</u>, is hereby modified by deleting the word "four" and replacing it with the word "two" in the seventh sentence of the fifth paragraph.

- 257. 704.10 AGGREGATE FOR BITUMINOUS CONCRETE PAVEMENT, part (b) Aggregate for Superpave Bituminous Concrete Pavement, subpart (1) Grading, c. Recycled Asphalt Pavement (RAP), is hereby modified by deleting the word "four" and replacing it with the word "two" in the seventh sentence of the sixth paragraph.
- 258. 704.12 AGGREGATE FOR SURFACE COURSE AND SHOULDERS, is hereby modified by deleting in its entirety and replacing them with the following:

704.12 AGGREGATE FOR SURFACE COURSE AND SHOULDERS.

(a) Aggregate for Aggregate Surface Course and Aggregate Shoulders. Aggregate shall consist solely of crushed gravel or crushed stone. It shall be reasonably free from silt, loam, clay, organic matter or other deleterious materials.

All aggregates shall meet the following requirements:

(1) <u>Grading</u>. The entire gradation shall be uniformly graded and shall meet the gradation requirements of the following table as determined in accordance with AASHTO T 27 and AASHTO T 11:

	Percentage by Mass
	(Weight) Passing
Sieve Designation	Square Mesh Sieves
37.5 mm (1 1/2	
inch)	100
25.0 mm (1 inch)	90 to 100
4.75 mm (No. 4)	45 to 65
150 μm (No. 100)	0 to 15
75 μm (No. 200)	0 to 12

TABLE 704.12A - AGGREGATE FOR SURFACECOURSE AND SHOULDERS

- (2) Percent of Wear. The percent of wear shall not be more than 40 percent for material used as aggregate surface course or not more than 50 percent for material used as aggregate shoulders, excluding bituminous materials. Percent wear shall be in accordance with AASHTO T 96.
- (3) <u>Fractured Faces</u>. When crushed gravel is used at least 50 percent by mass (weight), of the material coarser than the 4.75 mm (No. 4) sieve from each stockpile shall have at least two fractured faces. Fractured faces shall be in accordance with Vermont Standard Test Procedures AOT-MRD 23.
- (b) <u>Aggregate Shoulders, RAP</u>. Aggregate for Aggregate Shoulders, RAP shall consist solely of Bituminous Concrete Pavement. RAP shall be such that 100% of the material passes the 37.5 mm (1 ½ inch) sieve prior to placement.

SECTION 708 - PAINTS, STAINS, AND TRAFFIC MARKING MATERIALS

259. <u>708.01 GENERAL REQUIREMENTS</u>, part (c) Sampling, Testing, and Certification, subpart (2) Testing, is hereby modified by adding the following:

All other materials may be required to be tested on a cold weather AASHTO National Transportation Product Evaluation Program (NTPEP) pavement marking test deck.

260. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) Low VOC Traffic Paint, is hereby modified by adding the following as the first paragraph:

Ready-mixed Low VOC Chlorinated Rubber Traffic Paint shall consist of 100% chlorinated rubber type, fast drying traffic paint that shall contain properly formulated pigment and vehicle to give the desired results.

- 261. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) Low VOC Traffic Paint, subpart (1) Materials, is hereby modified by adding the following new subpart d.:
 - (d) The paint shall contain a maximum of 0.005% w/w (50 ppm w/w) lead. The EPA Method 1311 (TCLP) extract of the paint shall not contain amounts of cadmium, mercury, hexavalent chromium, or other toxic heavy metals in excess of the limits specified in SW-846.
- 262. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) Low VOC Traffic Paint, subpart (2) Composition, is hereby modified by deleting the phrase "and shall be a 100% acrylic binder" in the first sentence.
- 263. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) Low VOC Traffic Paint, subpart (2) Composition, is hereby further modified by deleting the phrase "Table 708.08A" and replacing it with the phrase "the following:" in the second (last) sentence.
- 264. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) <u>Low VOC Traffic Paint</u>, subpart (2) <u>Composition</u>, is hereby still further modified by deleting TABLE 708.08A in its entirety and replacing it with the following:

TABLE 708.08A - LOW VOC CHLORINATED RUBBER TRAFFIC PAINT COMPOSITION

PERFORMANCE		YELLOW/BLUE/
CHARACTERISTIC	WHITE	GREEN
Pigment Content, % by Mass (Weight) (ASTM D3723)	55% min. 59% max.	55% min 59% max.
Vehicle Content, % by Mass (Weight)	38% min. 42% max.	38% min. 42% max.
VOC Content, Mass (Weight) per Unit Volume (ASTM D3960)	150 g/L (1.25 lb/gal) max.	150 g/L (1.25 lb/gal) max.
Lead Content, %	0.005% max.	0.005% max.
Yellow Pigment	N/A	Yellow #65 or #75
Titanium Dioxide, Rutile Type II, (ASTM D1394)	120 g/L (1.00 lb/gal) max.	25 g/L (0.21 lb/gal) max.
Total Non-Volatile Content, % by Mass (Weight) (ASTM D2369)	70.0% min.	69.0% min.
Density, (ASTM D1475)	1.50 ± 0.04 kg/L (12.5 ± 0.33) lb/gal	1.46 ± 0.04 kg/L (12.2 +/- 0.33 lb/gal)
Close Cup Flash Point (ASTM D 3278)	4°C (39 °F) min.	4°C (39°F) min.

TABLE 708.08B - LOW VOC ACETONE BASED TR	RAFFIC PAINT	COMPOSITION
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PERFORMANCE CHARACTERISTIC	WHITE	YELLOW/BLUE/ GREEN
Pigment Content, % by Mass (Weight) (ASTM D3723)	53% min. 57% max.	51% min 56% max.
Vehicle Content, % by Mass (Weight)	37% min. 42% max.	37% min. 42% max.
VOC Content, Mass (Weight) per Unit Volume (ASTM D3960)	150 g/L (1.25 lb/gal) max.	150 g/L (1.25 lb/gal) max.
Lead Content, %	0.005% max.	0.005% max.
Yellow Pigment	N/A	Yellow #65 or #75
Titanium Dioxide, Rutile Type II, (ASTM D1394)	120 g/L (1.00 lb/gal) max.	25 g/L (0.21 lb/gal) max.
Total Non-Volatile Content, % by Mass (Weight) (ASTM D2369)	70.0% min.	69.0% min.
Density, (ASTM D1475)	1.415 ± 0.04 kg/L (11.8 ± 0.33) lb/gal	1.367 ± 0.04 kg/L (11.4 +/- 0.33 lb/gal)
Close Cup Flash Point (ASTM D 3278)	-20°C (- 4°F) min.	-20°C (-4°F) min.

- 265. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) <u>Low VOC Traffic Paint</u>, subpart (3) <u>Laboratory Tests</u>, subpart a. <u>Viscosity</u>, is hereby modified by being deleted in its entirety and replaced as follows:
 - a. <u>Viscosity</u>.
 - 1. <u>Chlorinated Rubber Traffic Paint</u>. The paint viscosity shall not be less than 74 nor more than 90 Krebs units at 25°C (77°F) when tested according to ASTM D562.
 - Acetone Based Traffic Paint. The paint viscosity shall not be less than 70 nor more than 88 Krebs units at 25°C (77°F) when tested according to ASTM D562.

- 266. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) <u>Low VOC Traffic Paint</u>, subpart (4) <u>Sampling and Testing</u>, subpart a. <u>Sampling Size</u>, is hereby modified by deleting the phrase "per batch of each type and color of traffic paint" and replacing it with the phrase "of each traffic paint per batch," in the first sentence.
- 267. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (b) <u>Low VOC Traffic Paint</u>, subpart (4) <u>Sampling and Testing</u>, subpart c. <u>Sample Delivery</u>, is hereby modified by deleting the first paragraph in its entirety and replacing it as follows:

All samples shall be delivered to the Materials Engineer, Vermont Agency of Transportation, Materials Section, 2178 Airport Road Unit B, Berlin, Vermont 05641.

- 268. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (d) <u>Waterborne Traffic Paint</u>, subpart (3) <u>Laboratory Tests</u>, d. <u>Drying Time (No Pick Up Time)</u>, is hereby modified by deleting the phrase "380 microns" and replacing it with the phrase "381 μm".
- 269. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (d) <u>Waterborne Traffic Paint</u>, subpart (3) <u>Laboratory Tests</u>, e. <u>No Track Time (Field Test)</u>, is hereby modified by deleting the phrase "508 microns" and replacing it with the phrase "508 μm" in the second sentence.
- 270. <u>708.08 PAINT FOR PAVEMENT MARKINGS</u>, part (d) <u>Waterborne Traffic Paint</u>, subpart (4) <u>Sampling and Testing</u>, c. <u>Sample Delivery</u>, is hereby corrected by deleting the phrase "1716 Barre-Montpelier Road, Berlin, VT 05602" and replacing it with the phrase "2178 Airport Road Unit B, Berlin, Vermont 05641" in the first paragraph.
- 271. 708.09 GLASS BEADS, is hereby modified by being re-named OPTICS.
- 272. <u>708.09 OPTICS</u>, is hereby modified by adding new part (a) heading <u>Glass</u> Beads.
- 273. <u>708.09 OPTICS</u>, part (a) <u>Properties</u>, is hereby modified by being redesignated as subpart (1) under part (a) heading Glass Beads.
- 274. <u>708.09 OPTICS</u>, part (b) <u>Certification</u>, is hereby modified by being redesignated as subpart (2) under part (a) heading Glass Beads.
- 275. <u>708.09 OPTICS</u>, is hereby further modified by adding the following new parts (b) and (c):
 - (b) <u>Premium Optics</u>. Approved premium optics shall be one of the premium optics listed on the Approved Products List on file with the Agency's Research and Development Section.
 - (b) Wet Recoverable and Wet Reflective Optics. Approved wet recoverable and wet reflective optics shall be one of the wet recoverable and wet reflective optics listed on the Approved Products List on file with the Agency's Research and Development Section.
- 276. <u>708.10 THERMOPLASTIC PAVEMENT MARKINGS</u>, is hereby modified by being deleted in its entirety and replaced as follows:

708.10 THERMOPLASTIC PAVEMENT MARKINGS.

(a) Thermoplastic Pavement Markings, Type A. Type A Thermoplastic Pavement Markings shall be one of the Thermoplastic Pavement Markings on the Approved Products List on file with the Agency's Research and Development Section. These markings shall be used in long line applications or as specified in the Contract Documents. Thermoplastic composition shall comply with Table 708.10A.

TABLE 708.10A - THERMOPLASTIC PAVEMENT MARKING COMPOSITION (by mass (weight)

Binder	18% Minimum
Filler	40% Maximum
Glass Beads	30 ±5-40%

- (b) Thermoplastic Pavement Markings, Type B. Type B Thermoplastic Pavement Markings shall be one of the Preformed Thermoplastic Pavement Markings on the Approved Products List on file with the Agency's Research and Development Section. These markings shall be used in intersection applications for legends, stopbars, or symbols or as specified in the Contract Documents.
- 277. 708.11 RAISED PAVEMENT MARKERS, is hereby modified by being re-named RAISED PAVEMENT MARKERS, TYPE I.
- 278. <u>708.12 PAVEMENT MARKING TAPE</u>, is hereby modified by deleting parts (a) <u>Pavement Marking Tape</u>, Type I, (b) <u>Pavement Marking Tape</u>, Type II, and (c) Pavement Marking Mask in their entirety and replacing them as follows:
 - (a) Pavement Marking Tape, Type A. Type A Pavement Marking Tape shall be one of the non-removable permanent pavement marking tapes on the Approved Products List on file with the Agency's Research and Development Section that exhibit high adhesion, high durability, and high retroreflectivity. These markings shall be used in high AADT locations in long line applications as specified in the Contract Documents.
 - (b) <u>Pavement Marking Tape, Type B</u>. Type B Pavement Marking Tape shall be one of the non-removable pavement marking tapes on the Approved Products List on file with the Agency's Research and Development Section. These markings shall be used in lower AADT locations in long line applications as specified in the Contract Documents.
 - (c) <u>Pavement Marking Tape, Type C.</u> Type C Pavement Marking Tape shall be one of the non-removable pavement marking tapes on the Approved Products List on file with the Agency's Research and Development Section. These markings shall be used at intersection locations only as specified in the Contract Documents.
- 279. <u>708.12 PAVEMENT MARKING TAPE</u>, is hereby further modified by adding the following new part (d):
 - (d) <u>Pavement Marking Tape, Type D</u>. Type D Pavement Marking Tape for legends and symbols shall be one of the non-removable pavement marking tapes on the Approved Products List on file with the Agency's Research and Development Section. These markings shall be used for preformed traffic markings made of the same material as that of an approved permanent Type A, B, or C tape.

280. <u>708.13 PREFORMED TRAFFIC MARKINGS AND SYMBOLS</u>, is hereby modified by being deleted in its entirety and replaced as follows:

708.13 TEMPORARY DELINEATION SYSTEMS.

- (a) <u>Line Striping Targets</u>. Line Striping Targets shall be one of the Line Striping Targets on the Approved Products List on file with the Agency's Research and Development Section.
- (b) <u>Raised Pavement Markers, Type II</u>. Acceptable Raised Pavement Markers shall be one of the Raised Pavement Markers on the Approved Products List on file with the Agency's Research and Development Section.
- (c) <u>Temporary Pavement Marking Tape</u>. Pavement Marking Tape shall be one of the removable pavement marking tapes on the Approved Products List on file with the Agency's Research and Development Section.
- (d) <u>Pavement Marking Mask</u>. Pavement Marking Mask shall be one of the Masking Marking Tapes on the Approved Products List on file with the Agency's Research and Development Section.
- 281. <u>708.14 LINE STRIPING TARGETS</u>, is hereby modified by being deleted in its entirety.

SECTION 710 - CULVERTS, STROM DRAINS, AND SEWER PIPES, NONMETAL

282. <u>710.03 CORRUGATED POLYETHYLENE PIPE</u>, is hereby modified by adding the following as the last sentence:

In order to maintain approval status, polyethylene pipe manufacturers must participate in, and maintain compliance with, the AASHTO National Transportation Product Evaluation Program (NTPEP), which audits producers of the pipe.

- 283. <u>710.07 CORRUGATED POLYPROPYLENE PIPE</u>, is hereby made a new Subsection of the Standard Specifications as follows:
- 284. <u>710.07 CORRUGATED POLYPROPYLENE PIPE</u>. Corrugated polypropylene pipe and fittings shall conform to the latest revisions of AASHTO M 330, Type S. Acceptable corrugated polypropylene pipe shall be one of the corrugated polypropylene pipe products on the Approved Products List on file with the Agency's Materials and Research Section. In order to maintain approval status, polypropylene pipe manufacturers must participate in, and maintain compliance with, the AASHTO National Transportation Product Evaluation Program (NTPEP), which audits producers of the pipe.

SECTION 712 - CRIBBING MATERIALS

- 285. <u>712.04 GABION BASKETS</u>, part (a) <u>Wire for Gabion Baskets</u>, is hereby modified by changing the word "shall" to the word "may" and by adding the phrase "or welded panels" after the phrase "woven wire mesh" in the first sentence of the first paragraph.
- 286. <u>712.04 GABION BASKETS</u>, part (a) <u>Wire for Gabion Baskets</u>, is hereby further modified by adding the following as the third sentence of the first paragraph:

Welded panels shall be coated by hot dip galvanizing after fabrication.

- 287. <u>712.04 GABION BASKETS</u>, part (b) <u>PVC Coating for Gabion Baskets</u>, is hereby modified by adding the following new subpart (7):
 - (7) <u>Punch Test</u>. The mesh shall achieve satisfactory performance on the Punch Test, as described in ASTM A975 13.1.4. This requirement applies to both woven and welded gabion baskets.

SECTION 713 - REINFORCING STEEL, WELDED WIRE REINFORCEMENT, AND REINFORCING STRAND

- 288. <u>713.01 BAR REINFORCEMENT</u>, is hereby modified by deleting the phrase "conforming to AASHTO M 31M/M 31, including supplementary requirements" and replacing it with the phrase ", unless otherwise specified in the Contract Documents" in the first paragraph.
- 289. <u>713.01 BAR REINFORCEMENT</u>, is hereby further modified by adding the following new parts (a)-(f) and associated paragraphs:
 - (a) <u>Plain Reinforcing Steel</u>. Plain reinforcing steel shall conform to AASHTO M 31M/M 31, including supplementary requirements.
 - (b) <u>Low Alloy Reinforcing Steel</u>. Low alloy reinforcing steel shall conform to ASTM A 706/A 706M.
 - (c) <u>Epoxy Coated Reinforcing Steel</u>. Epoxy coated reinforcing steel shall have an electrostatically applied organic epoxy protective coating, which has been prequalified, fabricated, tested, and installed in accordance with AASHTO M 284M/M 284.
 - (d) <u>Stainless Clad Reinforcing Steel</u>. Stainless clad reinforcing steel shall meet the requirements of AASHTO M 329M/M 329.
 - (e) <u>Dual-Coated Reinforcing Steel</u>. Dual-coated reinforcing steel shall meet the requirements of ASTM A 1055/A 1055M.
 - (f) <u>Solid Stainless Reinforcing Steel</u>. Solid stainless reinforcing steel shall meet the requirements of ASTM A 955/A 955M with one of the following UNS designations: S24100, S30400, S31603, S31653, S32101, S32201, S32205, or S32304. Different designations shall not be mixed within the same project.

Where no core steel requirements are specified in the above specifications, the steel core of the bar reinforcement shall meet the requirements of plain reinforcing steel.

<u>Certification</u>. A Type D Certification shall be furnished in accordance with Subsection 700.02. Certification for Epoxy Coated Reinforcing Steel shall include the coating and coating process.

- 290. <u>713.07 COATED BAR REINFORCEMENT</u>, is hereby modified by being deleted in its entirety.
- 291. <u>713.02 MECHANICAL SPLICES FOR BAR REINFORCEMENT</u>, is hereby modified by adding the phrase ", except that epoxy coated mechanical splices shall be allowed when Level II reinforcing steel is required" after the phrase "intended to splice" in the second sentence of the first paragraph.

SECTION 714 - STRUCTURAL STEEL

- 292. 714.08 ANCHOR BOLTS, BEARING DEVICES, is hereby corrected by deleting ".F" and replacing it with "F" in the first sentence of the first paragraph.
- 293. <u>714.08 ANCHOR BOLTS, BEARING DEVICES</u>, is hereby further corrected by deleting punctuation ".," and replacing it with punctuation "." at the end of the second sentence of the first paragraph.
- 294. 714.09 ANCHOR BOLTS, TRAFFIC SIGNALS, LIGHTING, AND OVERHEAD SIGN STRUCTURES, is hereby modified by being deleted in its entirety and replaced with the following:

714.09 ANCHOR BOLTS, TRAFFIC SIGNALS, LIGHTING, AND OVERHEAD SIGN STRUCTURES. Anchor bolts for traffic signals, lighting, and overhead sign structures shall conform to the requirements of ASTM F 1554, Grade 55, unless otherwise specified. Nuts shall be heavy hex and conform to the requirements of ASTM A 563. Washers shall conform to the requirements of ASTM A 43 and shall be a minimum of 3/8" unless otherwise indicated on the Plans. All components shall be galvanized in accordance with Section 726.08.

All anchor bolts for traffic signals, lighting, and overhead sign structures furnished for Agency projects shall be manufactured in the United States only. All bolts, nuts, and washers furnished for a particular application shall be furnished by a single supplier.

All bolts, nuts, and washers shall have identifiable manufacturer's marking(s) on each piece.

All galvanized nuts shall be lubricated with a lubricant containing visible dye that will provide visual verification of the lubricant during installation.

All bolts, nuts, and washers shall be tested and certified as meeting the requirements of the Zinc Thickness Test as specified in Subsection 714.05, in addition to any other test and certification requirements.

Anchor bolts shall be swedged or threaded and shall conform to the shape, length, and diameter specified on the Plans.

SECTION 726 - PROTECTIVE COATINGS AND WATERPROOFING MATERIALS

295. <u>726.10 CONCRETE STAINING AND SEALING SYSTEMS</u>, is hereby made a new Subsection of the Standard Specifications as follows:

726.10 CONCRETE STAINING AND SEALING SYSTEMS. Approved Concrete Staining and Sealing Systems shall be one of the Concrete Staining and Sealing Systems on the Approved Products List on file with the Agency's Materials and Research Section.

296. <u>726.11 SHEET MEMBRANE WATERPROOFING, PREFORMED SHEET</u>, is hereby made a new Subsection of the Standard Specifications as follows:

726.11 SHEET MEMBRANE WATERPROOFING, PREFORMED SHEET. Approved Preformed Sheet Membrane Waterproofing Systems shall be one of the Preformed Sheet Membrane Waterproofing Systems on the Approved Products List on file with the Agency's Materials and Research Section.

SECTION 731 - BEARING PADS FOR STRUCTURES

297. <u>731.03 ELASTOMERIC MATERIAL</u>, is hereby modified by deleting the second and third paragraphs in their entirety and replacing them with the following:

Unless noted otherwise, elastomer shall have a design hardness of 50 points and a design shear modulus of 0.8 MPa (110 psi).

Testing of elastomeric material shall be waived for bearings that will be encased in concrete in the final work. All other bearings shall be tested in accordance with the following table:

Material Property	Test Method	Required Result
		design hardness
Hardness	ASTM D 2240	+/- 5 points
	or	
	ASTM D 412 with AASTHO M	design shear
Shear Modulus	251 Section 8.8.4	modulus +/- 15%
Low Temperature		
Brittleness	ASTM D 746 Procedure B	Pass Grade 4 test
	AASHTO M 251 Annex A2 or	
Shear Bond Strength	Appendix X2	Pass
		15.6 MPa (2250
Min Tensile Strength	ASTM D 412	psi)
Min Ultimate		(650 - 5 X design
Elongation	ASTM D 412	hardness)%

TABLE 731.03A - REQUIRED TESTS

SECTION 752 - TRAFFIC CONTROL SIGNALS

- 298. 752.03 TRAFFIC SIGNAL POLES WITH MAST ARMS OR BRACKET ARMS, part (c) Aluminum Poles, Bases, and Mast Arms, is hereby modified by replacing "753.01(b)" in the first sentence with "753.07 and Subsection 753.08".
- 299. <u>752.03 TRAFFIC SIGNAL POLES WITH MAST ARMS OR BRACKET ARMS</u>, part (d) <u>Luminaire Bracket Arms</u>, is hereby modified by deleting the second sentence in its entirety and replacing as follows:

"Luminaire Bracket Arms shall conform to the requirements of Subsection 753.09"

300. <u>752.12 JUNCTION BOX</u>, is hereby modified by being deleted in its entirety and replaced as follows:

752.12 PULL BOX AND JUNCTION BOX

752.12 (a) PULL BOX. Pull boxes shall be constructed of Concrete, Class B. Pull box frames and covers shall be steel plate and conform to the requirements of ASTM A 36/A 36M. Where the cover is exposed to vehicle or pedestrian traffic, it shall have an approved nonskid surface such as diamond plate. Frames and covers shall be galvanized in accordance with AASHTO M 111/M 111 M. Pull boxes shall be designed and constructed to support at least an AASHTO MS-18 (HS 20) loading."

<u>Certification</u>. A type D Certification shall be furnished in accordance with Subsection 700.02.

752.12 (b) JUNCTION BOX. Junction boxes shall be constructed of fiberglass, high density polyethylene (HDPE), or acrylonitrile-butadiene-styrene (ABS). They shall be high-impact resistant at temperatures ranging from -35 to 50 °C (-30 to 120 °F), ultraviolet stabilized, and fire retardant. The side wall shall be ribbed for strength. The cover shall be non-skid and shall be held down with recessed hex-head bolts.

The junction box shall be capable of withstanding a loading of 67 kN (15 kips) over any 250 by 250 mm (10 \times 10 inch) area on the cover. The size of the box shall be as specified in the Contract.

 $\underline{Certification}.$ A Type A Certification shall be furnished in accordance with Subsection 700.02.

301. <u>752.15 GROUNDING ELECTRODES</u>, is hereby made a new subsection of the Standard Specification as follows:

752.15 GROUNDING ELECTRODES. Grounding electrodes shall include grounding rod and grounding conductors.

- Grounding rod shall be copper clad steel rods nominally 16 mm (5/8 inch) in diameter by 2.4 m (8 feet) long, minimum, and shall conform to UL No. 467 (ANSI C33.8).
- (b) Grounding conductor shall be installed throughout the system back to the power source. The earth shall not be used as the sole equipment grounding conductor. Grounding conductor shall be American Wire Gauge (AWG) #6 soft copper or stranded copper conductor.
- (c) A type A Certification shall be furnished in accordance with Subsection 700.02.

SECTION 753 HIGHWAY ILLUMINATION

302. <u>753 HIGHWAY ILLUMINATION</u>, is hereby modified by deleting in its entirety and replacing with the following:

753.06 LIGHT POLE FOUNDATIONS.

- (a) <u>Concrete</u>. Concrete shall conform to the requirements of Section 501 for Concrete, High Performance Class B.
- (b) <u>Reinforcing Steel</u>. Reinforcing steel for light pole bases shall conform to the requirements of Section 507 for Reinforcing Steel, Level I.
- (c) <u>Electrical Conduit</u>. Electrical conduit for light pole bases shall conform to the requirements of Subsection 752.08(a).
- (d) <u>Anchor Bolts</u>. Anchor bolts for light pole bases shall be per the Transformer Base manufacturer's recommendation and conform to the requirements of Subsection 714.09.
- (e) <u>Grounding Electrodes</u>. Grounding electrodes for light pole bases shall conform to the requirements of Subsection 752.15.

APPENDIX J

Bid, Performance and Payment Bonds

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BID BOND

KNOWN BY ALL BY THESE PRESENT, that we, the undersigned,

as Principal, and	as
Surety, are hereby held and firmly bound unto <u>Town of Williston</u>	
as OWNER in the penal sum of	
for the payment of which, well and truly to be made, we hereby	
jointly and severally find ourselves, successors and assigns.	
Signed thisday of	, 20
The Condition of the above obligation in such that whereas the	_
Principal has submitted to <u>Town of Williston</u>	a certain
BID, attached hereto and hereby made a part hereof to enter into a	
contract in writing, for Lamplite Acres TAP TA17(8)	

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for their faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension. IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and those present to be signed by their proper officers, the day and year first set forth above.

_____ (L.S.)

Principal

Surety

By:

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located Page left intentionally blank

PERFORMANCE BOND

KNOW ALL MEN AND WOMEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

, hereinafter called Principal, (Corporation, Partnership or Individual)

and

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

Town of Williston

(Name of Owner)

7878 Williston Road, Williston, VT 05495

(Address of Owner)

hereinafter called Owner, in the penal sum of

Dollars, \$() in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

The condition of this obligation is such that whereas, the Principal entered into a certain contract with the Owner, dated the ____ day of _____, 20___, a copy of which is hereto attached and made a part hereof for the construction of:

Lamplite Acres TAP TA17(8)

Now, therefore, if the principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, and if they shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

Provided, further, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the Work to be performed thereunder or the Specifications accompanying the same shall in any wise affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contact to the Work or to the Specifications.

Provided, further, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in	(number) counterparts, each one
of which shall be deemed an original, this the day of	, 20

ATTEST:

Principal

By:_____(s)

Address: _____

(Principal Secretary)

(SEAL)

Witness as to Principal

Address: _____

Surety

ATTEST:

By: _____

Attorney-in-Fact

Witness as to Surety

Address:	

Address: _____

- **NOTE:** Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.
- **IMPORTANT:** Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570) as amended and be authorized to transact business in the State where the Project is located.

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PAYMENT BOND

KNOW ALL MEN OR WOMEN BY THESE PRESENTS: that

(Name of Owner)

7878 Williston Road, Williston, VT 05495

(Address of Owner)

hereinafter called Owner, in the penal sum of _____

Dollars, \$(_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

The Condition of this obligation is such that whereas, the Principal entered into a certain contract with the Owner, dated the ______ day of ______, 20___, a copy of which is hereto attached and made a part hereof for the construction of:

Lamplite Acres TAP TA17(8)

Now, Therefore, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the Work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such Work and for all insurance premiums on said Work, and for all labor performed in such Work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in force and effect.

Provided, further, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the Work to be

performed thereunder or the Specifications accompanying the same shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the Work or to the Specifications.

Provided, further, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ (number) counterparts, each one of which shall be deemed an original, this the ____ day of _____ 20____.

ATTEST:

	Principal	
(Principal Secretary)		
(SEAL)	Ву:	(s)
	Address:	
Witness as to Principal		
Address:		
	Surety	
ATTEST:	By:Attorney-in-Fact	
Witness as to Surety	Address:	
·		
Address:		

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bond must appear on the Treasury Department's most current list (Circular 570) as amended and be authorized to transact business in the State where the Project is located.

performed thereunder or the Specifications accompanying the same shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the Work or to the Specifications.

Provided, further, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ (number) counterparts, each one of which shall be deemed an original, this the ____ day of _____ 20____.

ATTEST:

	Principal	
(Principal Secretary)		
(SEAL)	By:	(s)
	Address:	
Witness as to Principal		
Address:		
	Surety	
ATTEST:	By: Attorney-in-Fact	
Witness as to Surety	Address:	
Address:		

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bond must appear on the Treasury Department's most current list (Circular 570) as amended and be authorized to transact business in the State where the Project is located.

APPENDIX K

Project Change Order Form

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CHANGE ORDER

Date:	
Change Order No:	
Name of Project:	
Municipality:	
Contractor:	
The following changes are hereby made to the Contract:	
Justifications:	
Change to Contract Price: \$	
Original Contract Price: \$	_
Current Contract Price adjusted by previous Change Order: \$	
The Contract Price due to this Change Order will be (increased) dec	preased by: \$
New Adjusted Contract Price: \$	
Change to Contract Time:	
The Contract Time will be (increased) decreased by	_Calendar days
The date for completion of all work will be	
APPROVALS	
Contractor:	_
Construction Inspector:	
Municipality:	
VTrans Project Manager:	

APPENDIX L

VTrans Work Zone Safety and Mobility Guidance Document

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APPENDIX L -

Work Zone Safety and Mobility

Guidance Document

August 2007

WORK ZONE SAFETY & MOBILITY GUIDANCE DOCUMENT

August 2007



Prepared by:

Vermont Agency of Transportation



The following document was drafted in response to updates made to the work zone regulations at 23 CFR 630 Subpart J, published by the Federal Highway Administration. This document applies to all federal aid projects that have a pre-final contract administration/step submittal date after January 1, 2008.

Work Zone Safety and Mobility Vision

Current and future work zone safety and mobility issues mean that transportation practitioners need to minimize and manage the work zone impacts of transportation projects. In order to meet safety and mobility needs during highway maintenance and construction, and to meet the expectations of the traveling public, it is important to systematically analyze and assess the work zone impacts of projects and take appropriate action to manage these impacts.

The following has been adopted as the Vermont Agency of Transportation's (VTrans) work zone safety and mobility vision statement: *To provide optimum safety for workers and the traveling public while maintaining acceptable levels of mobility in an efficient environment for the contractors to complete the project work in accordance with their contracts.*

Work Zone Safety and Mobility Goals and Strategies

<u>Goal:</u> To provide a safe work zone for motorists, pedestrians, bicyclists (the traveling public) and construction personnel.

<u>Strategy:</u> Development of site-specific traffic control plans, while ensuring compliance with the Manual on Uniform Traffic Control Devices (MUTCD) and state design standards and specifications.

Goal: To minimize construction-related delays.

<u>Strategy:</u> Construction-related delays will be monitored. A change to the traffic management plan will be considered for construction-related delays greater than ten minutes.

<u>Goal:</u> To gain further knowledge of work zone procedures applicable to the State of Vermont.

<u>Strategy:</u> Summarize the work zone field evaluations to identify the effectiveness of implemented safety measures and to improve future Transportation Management Plans (TMP).

<u>Goal</u>: To ensure that the appropriate personnel have the necessary knowledge, skills, and abilities to design and/or implement a TMP.

<u>Strategy:</u> Management will be responsible for ensuring that their personnel has been provided appropriate training in accordance with their defined roles. Training to include but not limited to: flagger certification, NHI courses, AGC training, and the Vermont Local Roads Program courses.

Project Classification

The purpose of the Work Zone Safety and Mobility Guidance document is to allow VTrans to better anticipate the impacts associated with individual projects. Examples of impacts include internal project coordination, project scheduling and overall cost. Every federally funded project will require a TMP. The classification of the project will determine the complexity of the TMP. All transportation projects must be classified into one of three types of projects: significant, moderate, or minor projects. To accurately classify a project, several design characteristics must be analyzed to provide **guidance** in determining the appropriate project classification. The following characteristics should be evaluated when determining any project classification. These characteristics include but are not limited to:

- Project Location (Urban/Rural Setting)
- Primary Network (Interstate, Interchanges, Major State Roads, Major Intersections, NHS, Truck Network)
- Construction Duration (Months, Years)
- Access Management Category (Driveway Density, Business/Industry Density)
- Traffic Volumes (Average Annual Daily Traffic, Peak Hour Traffic, Existing Crash Rates, Car-Truck-Pedestrian-Bicycle Volumes)
- Proximity To Other Construction Projects
- Available Detour Routes

A project classification should be identified by the appropriate Project Manager¹, and confirmed by their respective Program Manager as early as the scoping process. This classification should be analyzed periodically throughout the design process to ensure that any design changes or site characteristic changes will not require a classification modification. Project classification is used to help identify the impacts associated with different types of transportation projects. This classification is used to determine what TMP should be applied to the project. The following definitions closely follow FHWA's Work Zone Self Assessment, <u>http://www.ops.fhwa.dot.gov/wz/docs/wz-sa-docs/sa_guide_s4.htm</u>.

¹ Please note that the position titles used in this document are typical Program Development Division titles. Applicable Operations Division titles as well as alternate VTrans Division titles may be substituted as necessary.

<u>Significant Projects:</u> Significant projects have a high level of public interest and will likely impact a large number of travelers. This impact must be analyzed individually and also in combination with concurrent active projects. It will have moderate to high user-cost impacts and the duration is usually moderate to long. These characteristics create work zone impacts that fall outside of the typical work zone safety and mobility thresholds. Examples of this work type may include: major corridor reconstruction, high impact intersection reconstruction, full closures on high volume facilities, major bridge reconstruction or repair, repaving projects that require long term lane closures, etc (e.g. Shelburne-South Burlington US 7 Reconstruction Project). It is important to note that significant projects are unique in that they have considerable impacts to the project area as well as the surrounding community.

<u>Moderate Projects:</u> Moderate projects have the potential to affect the level of public interest and may impact a modest number of commuters. These projects would include typical roadway, bridge, and paving projects.

<u>Minor Projects:</u> Minor projects have a minimal impact to the traveling public and a short duration. Typical projects within this category include sign installation, bridge inspection, pavement marking, and various maintenance activities.

Transportation Management Plans (TMPs)

TMPs are strategies/methodologies that will be implemented to ensure safe and mobile work zones within transportation projects. The project classification will determine the detail level required for the TMP. There are three major components of a TMP;

<u>Temporary Traffic Control Plan (TTC)</u>: A TTC plan describes temporary traffic control measures to be used for facilitating road users through a work zone or an incident area. The TTC plan plays a vital role in providing continuity of reasonably safe and efficient road user flow and highway worker safety when a work zone, incident, or other event temporarily disrupts normal road user flow. The TTC plan shall be consistent with the provisions of the MUTCD and AASHTO Roadside Design Guide.

<u>Transportation Operations Component (TO)</u>: The TO component shall include the identification of strategies to mitigate impacts of the work zone on the operation of the transportation system within the work zone impact area. The work zone impact area consists of the immediate work zone as well as affects to the surrounding roadways and communities. Examples of practices that may be used to satisfy the TO component may be found at http://www.ops.fhwa.dot.gov/wz/rule_guide/sec6.htm#sec63.

<u>Public Information Component (PI)</u>: The PI component shall include communication strategies that seek to inform the general public of work zone impacts and the changing condition of the project. The general public may include road users, area residences and businesses, and other public entities. Examples of communications strategies that may be used to satisfy the PI component may be found at http://www.ops.fhwa.dot.gov/wz/rule_guide/sec6.htm#sec63.

<u>Significant Projects:</u> The TMP for significant projects shall consist of a TTC, a TO, and a PI.

<u>Moderate/Minor Projects:</u> The TMP for moderate and minor projects shall consist of a TTC. A TO and a PI are not required, but may be applicable to certain projects as determined by the Project Manager.

Design Strategies

The development of a TMP is an iterative process that may vary significantly between projects. Work on a TMP should begin early in the project development process. There are numerous resources available to the designer to assist in the development of this plan: several of these are listed in the reference section of this document. The following outlines the key components of the TMP development process.

Preliminary Data Collection: As early as scoping, the project design team collects, analyzes, and documents all applicable project data.

Determine Project Classification: A project classification is determined based on the initial data that was collected. The project classification defines what components are required in the TMP.

Develop TMP: Work zone management strategies should be identified based on the project characteristics and used to develop all necessary aspects of the TMP. Applicable resources should be contacted during this step to obtain their input. This may include utilization of previous work zone feedback provided by the Construction Section. Plans and contract documents shall be based on standard specifications and include necessary pay items.

Update/Revise TMP: As a project progresses through all of the design stages the TMP should be re-evaluated to ensure that any project changes do not affect the TMP. It is possible that the project classification could change during the project design stages.

Finalize TMP: Ensure that the contract plans, special provisions, and estimate include all of the applicable elements of the TMP and allow the flexibility to develop or modify a TMP.

Roles and Responsibilities

- Step 1: A preliminary analysis will be performed by the *Design Team* to determine project classification. This preliminary analysis will be documented in the project's design file.
- Step 2: The *Project Manager* will have the responsibility of monitoring the project and proposed classification and informing the respective *Program Manager*.
- Step 3: The *Design Team* will develop a transportation management plan. The *Project Manager* will monitor the classification status. If there are significant changes, the project classification may be modified.
- Step 4: The *Construction Resident Engineer* will be responsible for identifying and documenting deficiencies in the TMP that compromise the effectiveness of the work zone and coordinating any improvements with the Contractor/State safety representative. Examples of data that may be included in the work zone documentation includes; crashes or other traffic incidents, traffic delay, traffic conflicts, and public comments. The *Project Manager* may assist in addressing any proposed modifications to the TMP during the construction process.
- Step 5: The *Regional Construction Engineer* will complete a work zone summary of TMP effectiveness based on the work zone documentation and any applicable work zone reviews performed by Traffic Operations.
- Step 6: The *Work Zone Safety and Mobility Committee* will consist of representatives from multiple sections within VTrans. This committee will review the work zone summary and will be responsible for updating the Work Zone Safety and Mobility Guidance document based on feedback from the year's construction projects. This committee will be responsible for sharing all applicable information throughout the Agency as well as with additional working groups and committees.

Application/Feedback

The Construction Engineer will submit a summary of TMP effectiveness and recommendations for improvements at the end of the construction season based on the work zone documentation provided by the Regional Engineers. The Work Zone Safety and Mobility Committee will meet annually to discuss these summaries. These summaries will serve to identify common TMP practices that are not working effectively, and will also assist in identifying TMP practices that are successful. The Work Zone Safety and Mobility Guidance document and supporting documentation will be revised to reflect the field evaluation summaries.

References

- <u>A Policy on Geometric Design of Highways and Streets.</u> American Association of State Highway and Transportation Officials, Current Edition.
- Developing and Implementing Transportation Management Plans for Work Zones. U.S. Department of Transportation Federal Highway Administration, December 2005.
- Engineering Operations Manual. Vermont Agency of Transportation, Current Edition.
- <u>Highway Capacity Manual.</u> Transportation Research Board of the National Academies, Current Edition.
- Implementing the Rule on Work Zone Safety and Mobility. U.S. Department of Transportation Federal Highway Administration, September 2005.
- Manual on Uniform Traffic Control Devices for Streets and Highways. U.S. Department of Transportation Federal Highway Administration, Current Edition.
- Road Design Manual. Vermont Agency of Transportation, Current Edition.
- <u>Roadside Design Guide</u>. American Association of State Highway and Transportation Officials, Current Edition.
- <u>Standard Specifications for Construction</u>. Vermont Agency of Transportation, Current Edition.
- Structures Manual. Vermont Agency of Transportation, Current Edition.
- <u>The State of Vermont Agency of Transportation Safety Manual</u>. Vermont Agency of Transportation, Current Edition.
- Traffic Design Manual. Vermont Agency of Transportation, Current Edition.
- "Vermont Agency of Transportation Standard Drawings." Vermont Agency of Transportation, Current Edition.
- Work Zone Impacts Assessment: An Approach to Assess and Manage Work Zone Safety and Mobility Impacts of Road Projects. U.S. Department of Transportation Federal Highway Administration, May 2006.
- Work Zone Public Information and Outreach Strategies. U.S. Department of Transportation Federal Highway Administration, November 2005.

APPENDIX M

US Department of Labor Davis-Bacon Rates for Chittenden County Dated January 5, 2018 Page left intentionally blank

check date prior to

bidding (typ)

General Decision Number: VT180045 01/05/2018 VT45

Superseded General Decision Number: VT20170045

State: Vermont

Construction Type: Highway

County: Chittenden County in Vermont.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels; building structures in rest areas; railroad construction; bascule, suspension & spandrel arch bridges; bridges designed for commercial navigation; bridges involving marine construction; and other major bridges)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication	Date
0		01/05/2018	

* SUVT2011-030 09/14/2011

	Rates	Fringes
CARPENTER, Includes Form Work	\$ 19.40	3.58
ELECTRICIAN includes Traffic Signalization and Installation	\$ 20.51	0.00
IRONWORKER, STRUCTURAL	\$ 21.17	0.00
LABORER: Common or General	\$ 13.40	0.24
LABORER: Flagger	\$ 11.11	0.00
LABORER: Traffic Control-Cone Setter	\$ 14.34	5.77
OPERATOR: Bobcat/Skid Steer/Skid Loader	\$ 17.10	0.00

OPERATOR:	Broom\$	15.80	6.34
OPERATOR: Planer/Mil	Cold ling Machine\$	23.60	0.00
OPERATOR:	Excavator\$	18.60	0.67
OPERATOR:	Loader\$	18.93	0.00
OPERATOR:	Paver\$	17.56	0.38
OPERATOR:	Roller (All Types)\$	16.38	0.00
OPERATOR:	Screed\$	19.02	2.98
	arking Lot and riping Only)\$	15.50	3.75
Dump Truck	ER, Includes All s\$	15.85	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination

- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

> Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

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APPENDIX N

Materials Record & Certification Package

will be requested with contract plans

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Project Permits



State of Vermont Agency of Transportation Environmental Section One National Life Drive Montpelier, VT 05633-5001 http://vtrans.vermont.gov/

Matthew Hake, Division Administrator Federal Highway Administration P.O. Box 568, Montpelier, VT 05601 [phone] 802-828-1278 [fax] 802-828-2334 [tdd] 800-253-0191

March 27, 2018

Attn: Kenneth R. Sikora, Environmental Program Manager Re: Williston TAP TA17 (8)

Dear Mr. Hake:

Project Williston TAP TA17(8) is located in the Lamplite Acres Neighborhood off North Brownell Road in Williston. Work to be performed under this contract includes the installation of roadside infiltration trenches and secondary underground infiltration chambers along residential roads, utility coordination, minor grading, and incidental items. The construction will improve the water quality of runoff generated from the local roadways and will mitigate roadway flooding during spring thaw and significant rainfall events. All work will occur within the town roadway right-of-way.

The Vermont Agency of Transportation (VTrans) has considered the potential environmental consequences of the project in accordance with the National Environmental Policy Act (NEPA). VTrans has determined that this project meets all of the criteria specified in the Programmatic Agreement entitled "Processing of Projects Eligible for Categorical Exclusion," executed 06/25/99. The project qualifies for Categorical Exclusion pursuant to 23 CFR 771.117(c)(25) "Environmental Impact and Related Procedures - Categorical Exclusions" as the project consists of environmental restoration and pollution abatement actions to minimize or mitigate the impacts of any existing transportation facility (including retrofitting and construction of stormwater treatment systems to meet Federal and State requirements under sections 401 and 402 of the Federal Water Pollution Control Act (33 U.S.C. 1341; 1342) carried out to address water pollution or environmental degradation.

This project will not involve substantial planning, resources, or expenditures; nor is it likely to induce significant alterations in land use, planned growth, development patterns, traffic volumes, or traffic patterns. The project will have no significant effect upon natural and cultural resources. No significant environmental impact is expected to result from construction or maintenance of this facility.

Please contact Jeff Ramsey, Environmental Specialist Supervisor @ 802-828-1278 if you require additional information.

Respectfully,

Kams

Jeffery T. Ramsey VTrans Environmental Specialist Supervisor

Attachments cc: Ande DeForge, Project Manager Project File *Programmatic CE*

Page 1 of 7

PROGRAMMATIC CATEGORICAL EXCLUSION CRITERIA

VTrans has determined that this project will **<u>NOT</u>**:

- A. X Require a temporary detour outside existing right-of-way, or a temporary wetland or stream crossing which will require non-routine mitigation, or a ramp closure, unless the following conditions are met :
 - (1) provisions are made for access by local traffic and the facility is posted accordingly,
 - (2) businesses dependent upon through traffic will not be unduly affected,
 - (3) the temporary detour or ramp closure will not interfere with local special events,
 - (4) the temporary detour, ramp closure, wetland or stream crossing will not substantially increase the environmental consequences of the action (project).
- B. X Involve construction in wetlands totaling more than 5,000 square feet of permanent impacts, requiring the Army Corp of Engineers to coordinate with resource agencies per the General Permit.
- C. X Require a Risk Analysis for an increase in 100-year flood water surface elevations, per EO 11988.
- D. X Involve construction within, or alter drainage patterns so as to adversely affect, a Sole Source Aquifer.
- E. X Require coordination with the US Fish and Wildlife Service for the preparation of a Biological Assessment for Threatened and Endangered Species, per 16 CFR Section 7.
- F. X Require acquisition of additional right-of-way (including permanent or temporary construction easements) involving: more than three acres of land per mile of roadway, or a total of 10 acres or more for a non-linear improvement (such as a bridge or an intersection), or any relocation of residences or businesses.
- G. X Require FHWA approval for changes in access control.
- H. X Involve acquisition of, or impacts upon Prime or Unique Farmland, unless a USDA Farmland Conversion Impact Rating Part VI Site Assessment has been completed and indicates Total Site Assessment Points less than 160 (doesn't apply to designated urban areas).
- I. X Adversely Effect a historic or archaeological resource on, or eligible for inclusion on, the National Register of Historic Places.
- J. X Require use (permanent or temporary) of a Section 4(f) resource, unless that use meets the criteria for a de minimis or Programmatic 4(f); or involve the use of a Section 6(f) resource when compensation is required (property acquired or improved using Land and Water Conservation Funds).
- KX Involve hazardous or residual waste liabilities subject to CERCLA and/or RCRA requirements.
- L. X Require a bridge permit from the US Coast Guard, per 23CFR 650 Subpart H.
- M. X Qualify as a Type I project and require analysis of noise abatement measures, per 23 CFR 772 and the FHWA approved VTrans Noise Policy.
 - (NOTE: If coordination with the FHWA was required to reach this determination attach concurrence memo)

Categorical Exclusion Environmental Analysis Sheet

Town Williston Project No. TAP TA17 (8) Route Pine Lane, Lamplite Lane, White Birch Lane

Project Setting:	Urban X	Village	Rural	
	Traffic <u>n/a</u>	Year n/a	Typical	varies
	AASHTO Fur	nctional Classification	n/a	

Project Purpose & Need:

The purpose of the project is to promote safety by alleviating stormwater ponding on the roadways and within the town right-of-way in the Lamplite Acres Neighborhood.

The need for the project is due to a lack of adequate stormwater infrastructure causing stormwater to pond at low points on the roadways and along the edge of neighborhood roads. During large rainfall events and spring thaw, the town pumps surface water that has flooded the roadways into catch basins located outside of the neighborhood. During the winter, ponded water freezes on the road and becomes a hazard for pedestrians and motorists.

Project Description:

Project Williston TAP TA17(8) is located in the Lamplite Acres Neighborhood off North Brownell Road in Williston. Work to be performed under this contract includes the installation of roadside infiltration trenches and secondary underground infiltration chambers along residential roads, utility coordination, minor grading, and incidental items. The construction will improve the water quality of runoff generated from the local roadways and will mitigate roadway flooding during spring thaw and significant rainfall events. All work will occur within the town roadway right-of-way.

CRITERIA OF 23 CFR771.117 (C) APPLICABLE? X YES NO

NOTE: PROJECTS THAT MEET THE CRITERIA OF 23 CFR771.17 (C) NEED ONLY ADDRESS THOSE ISSUES MARKED WITH AN ASTERISK (*). THIS DOES NOT PRECLUDE THE NEED TO OBTAIN APPLICABLE STATE & FEDERAL CONCURRENCES & PERMITS.

Ten year increase in ADT	_(10,000 allowed maxim	num per MOA)	
Urban intersection improvement Yes	No	-	
Noise			
Type I Project (VTrans Noise Policy) Yes	No	_	
If yes, number of receptors impacted			
- •			
VANR Lakes & Ponds permit Yes	No	_ Acquired	
Rivers or Streams			
VANR Title 19 Consultation Yes	No	Completed	
Wetlands		-	
Wetland Impact area Temporary	0 Permanent	0	
VANR Wetland Permit Yes	<u>No X</u>	Acquired	Does the town
401 Water Quality Certification Yes	No	Acquired	
			need a CGP
			3-9020?
Describe Hydraulic Changes			
	Ten year increase in ADT Urban intersection improvement Yes	Ten year increase in ADT	Type I Project (VTrans Noise Policy) YesNo No If yes, number of receptors impacted Mitigation Requirements Water Quality

Programmatic CE

	Ground Water/Surface Water/Well Imp	oacts Yes		No			
	(Describe)						
	ANR Comments						
4.	U.S. Army Corps of Engineers						
	Section 10 and/or Section 404 Permit R						
	Permit Type						
	COE Comments						
5.	U.S. Coast Guard						
	Navigable Waters Yes	No	Involve	d Waterv	vav		
	Rivers & Harbors Act Section 9 and/or				5		
	Bridge Act of 1946 Permit(s) Required	Yes	No		Acquired		
	Section 144(h) "Exemption"						
	USCG Comments				·		
de C							
* 6.	Threatened and Endangered Species Present in Project Area Yes X						
	ANR Non-Game and Natural Heritage	Program comme	nte	none at t	this time		
	USF&WS comments <u>none a</u>	e	III.5	none at			
	From Glenn Gingras' Natural Resource		$1/17 - 1 h_{2}$	we review	ved existing m	apping from the AN	R
	Natural Resource Atlas. There are no m					** •	
	within the range of the northern long-ea						15
	prefers forested habitat and are known	· · ·		· · · ·	· · · ·		and
	exfoliating bark. There is no known hib						
	is no tree cutting proposed at this time.		amentea			of the project area.	
	is no nee cutting proposed at tins time.						
7.	Agricultural Land						
, -	Prime/secondary/locally important soils	s affected	Yes		No		
	Current land use					_	
	Form 1006 Parts 1, III, VI, VII, comple		Yes		No		
	Form 1006 Parts II, IV, V completed (N				No		
	Vermont Department of Agriculture co					—	
8.	Hazardous/ Residual Waste Liabilitie						
	Present in project area	Yes					
	Determination from VANR list	Yes					
	Determination from field visit	Yes	No				
	Borings completed	Yes	No				
	Petroleum related wastes	Yes					
	CERCLA involvement	Yes					
	Remediation required	Yes	No				
	Describe:						
* 9.	Historical or Archaeological Resourc	es (Section 106)					
	Historic Resources: Present in project a	· · · · · · · · · · · · · · · · · · ·		Х	No	_ Exempt	
	Archeological Resources: Present in project d					_ Exempt	
	Section 106 determination <u>No His</u>						
	Memorandum of Agreement needed						
	SHPO coordination completed						
Drogram		*					

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Advisory Council coordination completed <u>n/a</u>

From Section 106 Determination 03/26/18: Further explanation:

Above Ground Historic Resources: The project is located in a residential area known as Lamplite Acres, a subdivision in Williston where the houses were constructed in the late 1960's and are set back from the road and each other. The first phase of the drainage system runs along the side of Pine Lane and portions of White Birch Lane, as seen in pictures below, and is minimally visible; the trenches are seeded and mulched and the drains themselves are flush with grassy areas. Similar to the first phase of the project, the trenches and drains to be installed as part of the second project phase, once the grass has grown back in, will be no more than seven inches below the current grade and will be gently sloped. The potential for the project to affect historic resources outside the project area is quite minimal and the APE is limited to direct effects only. It is expected that the improved drainage will reduce the amount of water that pools on the streets and in the adjacent yards. The drainage system will help protect buildings adjacent to the project APE from rising water as it will remove the water much more quickly than the current system. There are no buildings or structures within the APE, but there are utility boxes and these are not considered eligible for listing on the National Register of Historic Places. Research indicates that there are no properties in Lamplite Acres listed in the State or National Register of Historic Places. Page 3 of 13 04/15 VTrans spoke with Matt Boulanger, Williston Senior Planner and Certified Local Government Coordinator, about the proposed project on February 12, 2018. According to Mr. Boulanger, the town does not yet consider Lamplite Acres historic due to age and the town supports the project. Archaeology: The general project area is situated between Muddy Brook and Allen Brook in what was

agricultural land that is now a residential development. This area of the state is highly archaeologically sensitive due to its proximity to multiple water courses and its proximity to the glacial shoreline of the Lake Champlain Sea. There are numerous known sites within the area discovered as part of previous studies associated with various alignments of past projects including the proposed circumferential highway as well as private and commercial development within the Taft's Corners area. Nearly a dozen known sites are located within a quarter to half mile from the project location. However, the drainage improvement project is located within an existing planned residential development which has seen significant previous disturbance associated with existing drainage and underground utility installation gas, electric, water and sewer as well as various planned landscaping in the locations of the proposed work. Therefore, the drainage upgrades will not affect archaeologically sensitive areas or known sites.

* 10. Section 4(f) and 6(f) Resources

10.		3						
	Section 4(f) Resource(s) presen	t in project area	Yes		No	Х		
	Nature of Section 4(f)							
	Parks/Rec. Areas Wildl	ife and Waterfow	l Refug	ge	Histo	ric Prop	erty	
	Temporary use of $\overline{4(f)}$ resource	Yes	No	X	-	•	•	
	Permanent use of $4(f)$ resource							
	Section 4(f) Approval (check or							
	Negative Declaration de n	ninimis 4(f)	Progra	mmatic 4	(f)	Circul	lated 4(f)	
		Section 4(f) Comments There aren't any 4(f) resources within the project limits.						
		• • •						
	Section 6(f) involvement (LWC	F Funding) Yes		No	Х			
	National Park Service Conversion Approval <u>n/a</u>							
	Section 6(f) Comments There aren't any 6(f) resources within the project limits.							
	- ()				1 2			
* 11.	Right of Way							
	New ROW Acquisition	fee simple		Yes		_No	Х	
	-	permanent ease	ment	Yes		No	Х	
		temporary easer						
	Description of taking	n/a						
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	Improved properties acquired		Yes	No <u>X</u>	
	Displacements Rental Units	0 Private	e Homes 0	Businesses 0	
	Relocation services to be provi	ded n/a			_
	Relocation services to be provi Properties available for relocation	ion	n/a		
	-				
12.	Public Participation Opportu				
	Pre-Design Site Meeting Public Information Meeting	Yes	_No	Date	_
	Public Information Meeting	Yes	No	Date	_
	Public Hearing Required (502)	Yes	No	_ Date	_
	Comments by Local Officials/F	RPC's			
13.	Social and Economic Concern				
	Project consistent with Local and				
	Describe Neighborhood and Community		(Attach	correspondence from o	fficials)
	Neighborhood and Community	Concerns Yes	No		
	Churches		_ Elderly		
	Schools		_ Handicapped		
	Low Income Housing			Justice Exec. Order 128	398
	Emergency Services		Other		
	Describe				
	Effect on local business	Yes	_ No	_(Describe)	
	Temp. effect on business	Yes	_No	_(Describe)	
	Loss of parking	Yes	_ No	_(Describe)	
	Pedestrian Facilities Sidewa	alk Widths	Existing	Proposed	
	Bicycle Facilities Paved				
	If not minimum standard (sidew	valk 5ft, paved sł	noulder 4ft), expl	lain	
14.	Aesthetic Concerns				
	Scenic Byway/VT Scenic High				
	Describe				_
15.	Effects of Temporary Detour				
	Detour required Temporary bridge required	Yes	_ No	_ Length	(Attach Plans)
	Temporary bridge required	Yes	_No	(Attach Plans)	
	Impacts of Detour/ Bridge				
	Public notification of detour				
Field I	Inspection Comments:	See supporting	documentation.		

Summary of Commitments and Mitigation

Describe: From Glenn Gingras' Natural Resource Clearance 12/04/17 - This project shall be subject to Avoidance and Minimization Measures to protect the habitat and hibernacula of the northern long-eared bat. Measures applicable to this project include, Time-of-Year (TOY) restrictions for any potential impacts to suitable bat habitat, which include, but are not limited to trees ≥ 3 " and/or habitat features on bridge structures. This project's design does not identify any tree cutting or bridge related activities within the project limits as part of the work and therefore neither a habitat assessment nor an acoustic survey has been performed. If during construction, cutting trees ≥ 3 " diameter and/or bridge related activities are deemed necessary, further review will be required and TOY restrictions may apply. In such cases, the Engineer will coordinate further environmental review with the Construction Environmental Engineer. The Contractor is hereby made aware of the potential for TOY restrictions related to proposed Waste, Borrow and Staging areas. Cutting

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trees outside of the contract project limits shall require review under Section 105.25 Control of Waste, Borrow, and Staging Areas.

Marrison03/2//18Reviewed by:Lee Goldstein 03/28/2018SignatureDateSignatureDate 03/27/18 Prepared by:

Document Template Last Revised 11/10/15

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APPENDIX P

Right of Way and Utility Clearance

	Trans <u>Working to Get You There</u> Vermont Agency of Transportation	RIGHT OF WAY CERTIFICATE
DATE:	08/14/2018	
PROJECT:	WILLISTON, TAP TA17(8)	
PPMS #:	17F017	

This is to certify that the right of way has been or will be acquired in accordance with Vermont State Statute, the Uniform Relocation Assistance Real Property Acquisition Policies Act of 1970 as amended and Title 23 of the Code of Federal Regulations, Part 635 (when applicable) and the status of the right of way is as follows:

 \boxtimes No acquisitions of land or rights were necessary since all construction will be within the existing right of way.

 \Box Pursuant to 23 CFR 635.309(c)(1) and/or (2), all the acquisitions of land and rights have been completed including legal and physical possession and/or the right to occupy and to use all rights of way required for the proper execution of the project has been acquired.

 \Box Pursuant to 23 CFR 635.309(c)(3), all the necessary right of way has not been acquired, however, the acquisitions are being progressed and all legal and physical possession will be completed prior to award of the construction contract.

Robert M. White, Right of Way Chief

<u>Distribution</u> Marvin D. Kingsbury, Programming Engineer, Planning Craig Keller, Chief of Utilities & Permits Section Debbie Morse, Finance & Administration Section Meredith Asselin, Finance & Administration Section Lawrence Dwyer, FHWA Kenneth R. Sikora, Jr., FHWA

APPROVED:



Stantec Consulting Services Inc. 55 Green Mountain Drive, South Burlington VT 05403-7824

September 14, 2018

Utility and Railroad Clearance for: Lamplite Acres TAP TA17(8)

To Project File,

To comply with the requirements of 23 C.F.R. 635.309b, all applicable utility and railroad coordination has been completed for the subject project.

All necessary arrangements have been made for the utility work to be undertaken and completed as required for proper coordination with physical construction schedules, with necessary agreements consummated with the appropriate parties concerned.

Utility adjustments are required by proposed construction plans for the subject project.

No railroad is impacted by this project.

Sincerely,

Stantec Consulting Services Inc.

May n. Myth

Greg Goyette, PE Project Manager

Phone: (802) 864-0223 Fax: (802) 864-1065 Greg.Goyette@stantec.com

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