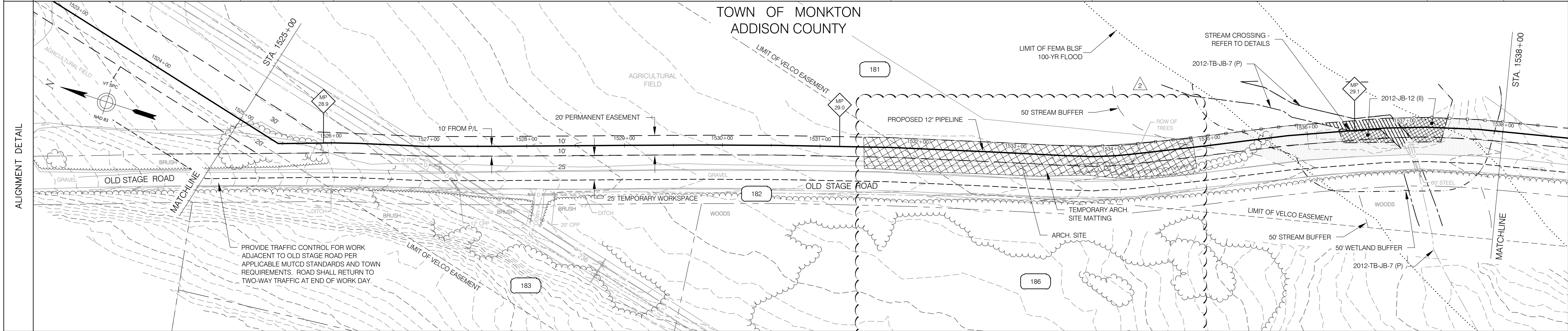
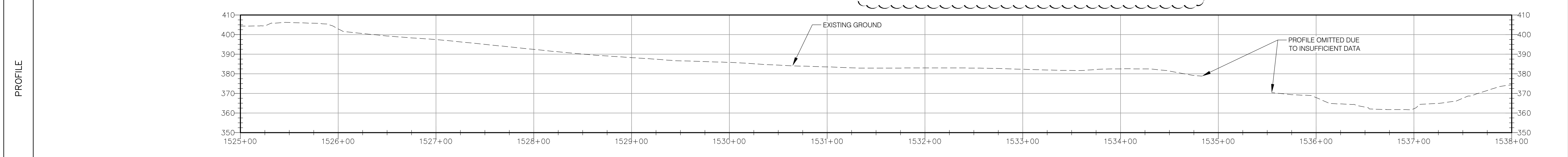


RIGHT-OF-WAY	MATCHLINE		181 N/F HURLBURT, HERRICK & CHARLOTTE	182 OLD STAGE ROAD	MATCHLINE
	SURVEY DATA		PIPE ALIGNMENT PARALLELS ROAD RIGHT-OF-WAY, FOR CLARITY, NOT ALL SURVEY DATA IS SHOWN		
	S 14° 22' W 32.59' LT 1525+46	S 18° 36' E 00'44" RT 1526+02	S 17° 52' E	S 19° 21' E	S 24° 55' E
			02'31" RT 1531+72	02'34" LT 1533+76	12'00" RT 1537+25

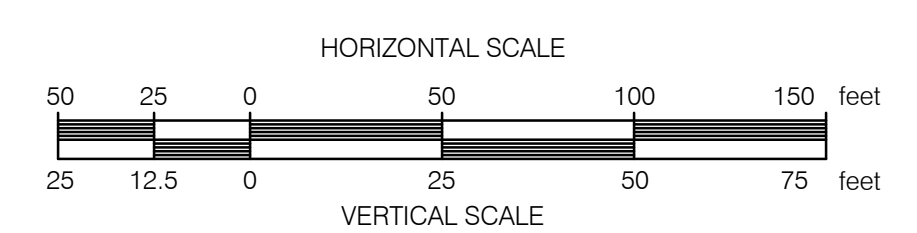


CONST. TYPE	2D	4A	A	7	W	4A
-------------	----	----	---	---	---	----

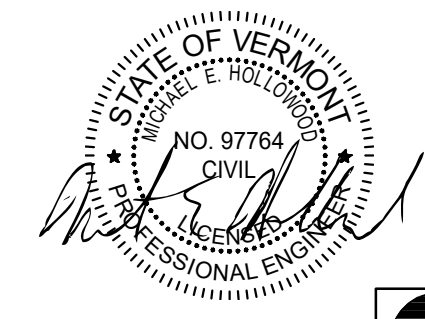


MATERIALS	MATCHLINE	1 989 FT A	1 303 FT C	1 8 FT A	MATCHLINE
-----------	-----------	------------------	------------------	----------------	-----------

COATING	A				
CLASSIFICATION	1				
DESIGN FACTOR	0.5				

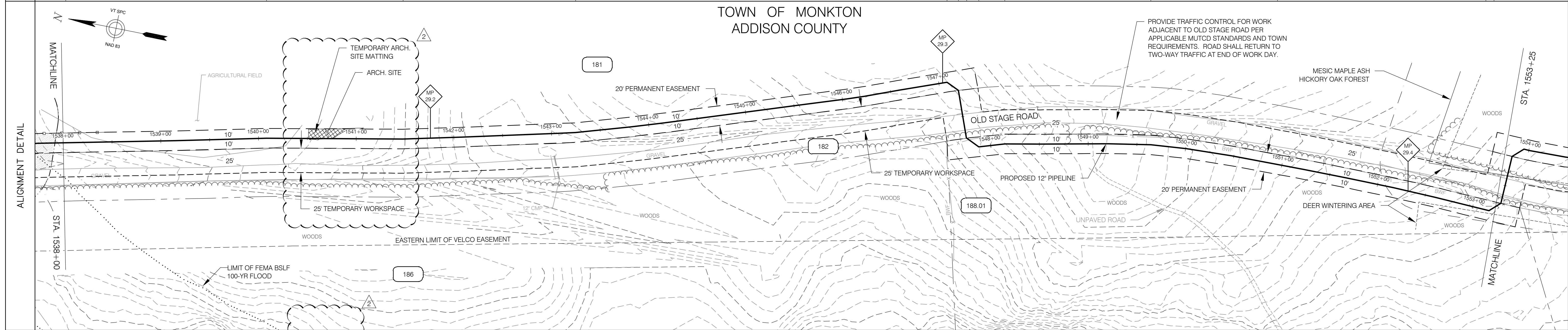


PIPE MATERIAL:	1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	1,300 FT
	2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:	A EPOXY POLYETHYLENE 10/40	997 FT
	B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
	C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	303 FT

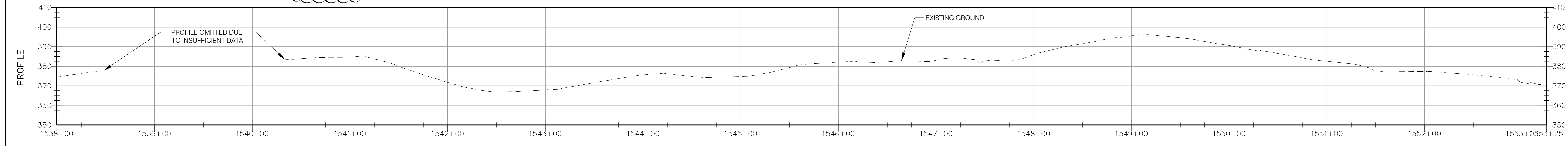


					ENVIRONMENTAL JLS 06/28/13 JLS 05/2016 DRAFTING DESIGNER GIL 06/28/13 GJM 05/2016 DRAFTING SUPERVISOR BZD 06/28/13 BCK 05/2016 DESIGN ENGINEER MDF 06/28/13 GEW 05/2016 DESIGN MANAGER SAB 06/28/13 JEO 05/2016				VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET					
ANGP-EPSC-061A	EPSC PLAN	2	GJM	BCK	IFC 2016 EDITS (05/2016)	LOC.	ADDISON COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 50'			DWG.	ANGP-T-C-061A
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS	1	VGS	VGS	OLD STAGE ROAD RE-ROUTE (11/13/15)									
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE					

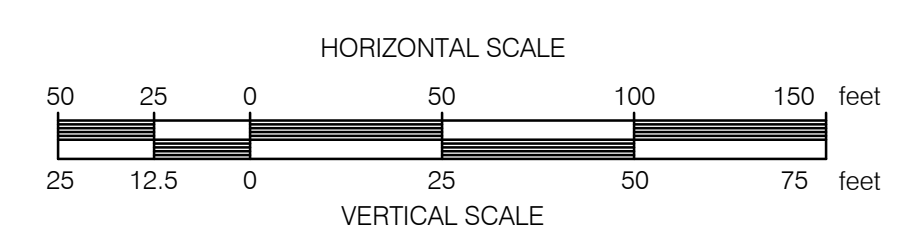
RIGHT-OF-WAY	MATCHLINE	181 N/F HURLBURT, HERRICK & CHARLOTTE	182 OLD STAGE ROAD	188.01 N/F VERMONT GAS SYSTEMS, INC.	MATCHLINE		
	SURVEY DATA	S 12 55' E 01'56" RT 1540+08	S 10 59' E 02'36" LT 1541+48	S 13 35' E 05'12" LT 1543+25	S 18 47' E 45'00" RT 1547+00 S 24 14" W 45'00" RT 1547+23 S 69 14" W 45'00" LT 1547+72 S 24 14" W 45'00" LT 1547+88 S 17 44' E 6'10" RT 1548+15	S 11 34' E 09'15" RT 1549+64	S 02 19' E 01'35" RT 1550+96



CONST. TYPE		(A)	(4A)	(11)	(4B)
-------------	--	-----	------	------	------



MATERIALS	MATCHLINE	(1) 931 FT A	(1) 50 FT C	(1) 544 FT A	MATCHLINE
COATING		A	C	A	
CLASSIFICATION			1		
DESIGN FACTOR			0.5		

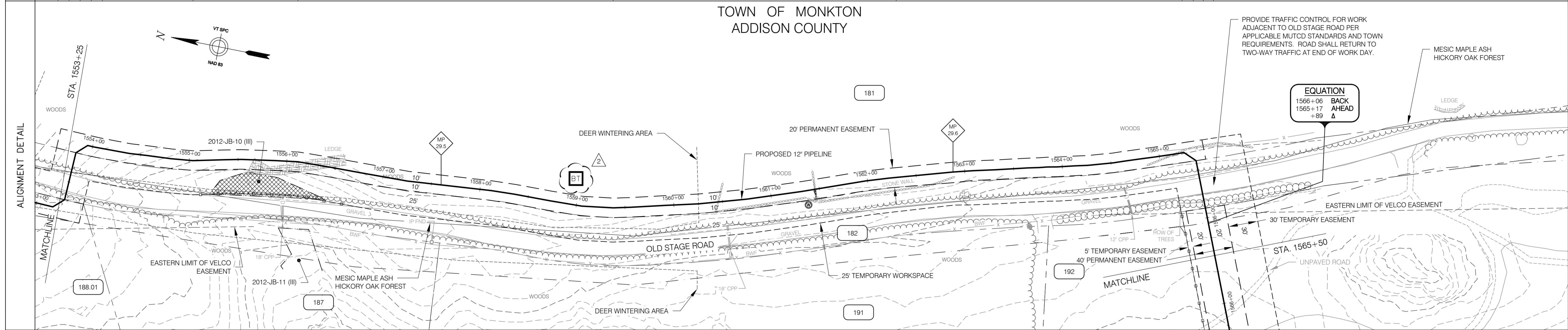


PIPE MATERIAL:		1,525 FT
1	12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	
2	20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:		1,475 FT
A	EPOXY POLYETHYLENE 10/40	
B	FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C	FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	50 FT

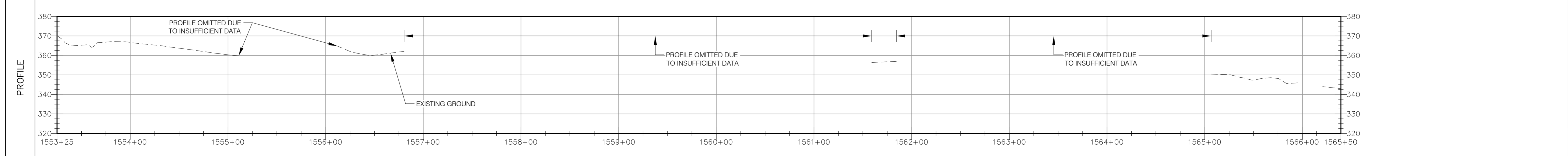


ANGP-EPSC-061B	EPSC PLAN	2	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET						
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS	1	VGS	VGS	OLD STAGE ROAD RE-ROUTE (11/13/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016				LOC. ADDISON COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 50'
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016							
						DESIGN MANAGER	SAB	06/28/13	JEO	05/2016							

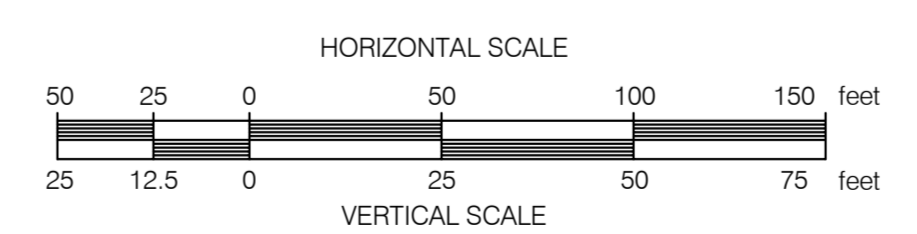
RIGHT-OF-WAY	MATCHLINE	181 N/F HULBURT, HERRICK & CHARLOTTE	182 OLD STAGE ROAD	192 N/F HERRICK JR; MICHAEL, DAVID & HURLBURT, JOSHUA	MATCHLINE
	188.01 N/F VERMONT GAS SYSTEMS, INC.	PIPE ALIGNMENT PARALLELS ROAD RIGHT-OF-WAY, FOR CLARITY, NOT ALL SURVEY DATA IS SHOWN			
SURVEY DATA	1553+31 S 42° 44' E 45'00" LT	1554+00 S 03° 39' E 06'54" LT	1555+00 S 09° 20' E 04'29" RT	1556+00 S 04° 51' E 14'26" LT	1557+00 S 19° 17' E 04'48" RT
	1553+81 S 87° 44' E 45'00" RT 1554+36 S 42° 44' E 45'00" RT 1554+91 S 02° 16' W 65'55" LT				1562+30 S 14° 29' E 07'59" LT 1562+85 S 22° 28' E 45'00" RT 1563+40 S 22° 32' W 45'00" RT 1563+95 S 67° 32' W



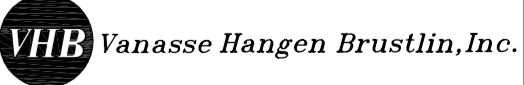
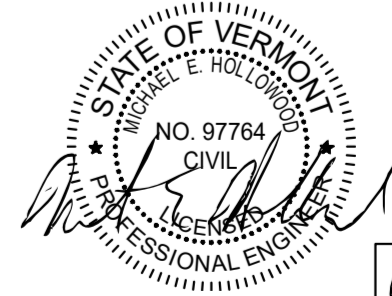
CONST. TYPE	11	W	4A	11	1H
-------------	----	---	----	----	----



MATERIALS	MATCHLINE	1	1,074 FT	1	MATCHLINE
COATING	C	A	C	A	
CLASSIFICATION		1			
DESIGN FACTOR		0.5			

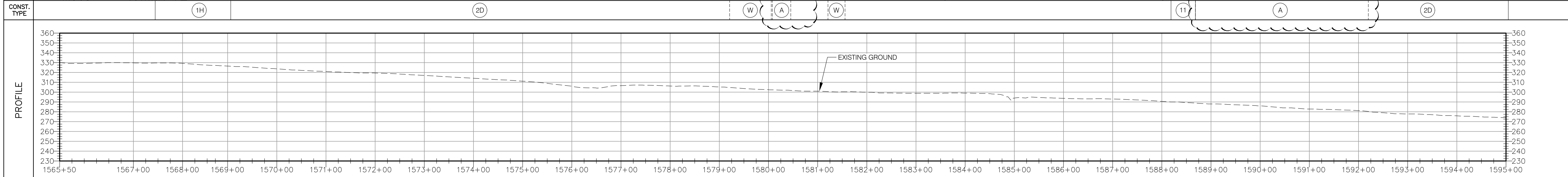
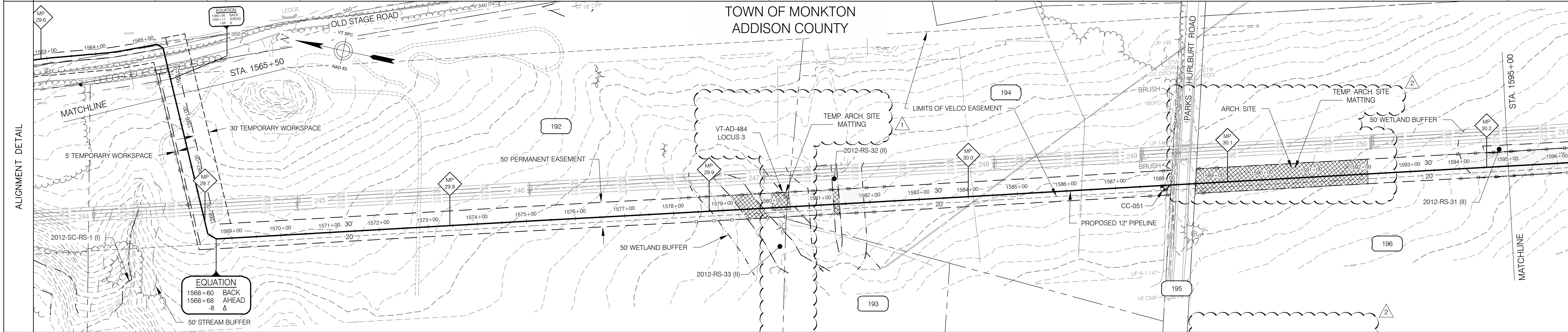


PIPE MATERIAL:	1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	1,225 FT
	2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:	A EPOXY POLYETHYLENE 10/40	1,125 FT
	B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
	C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	100 FT

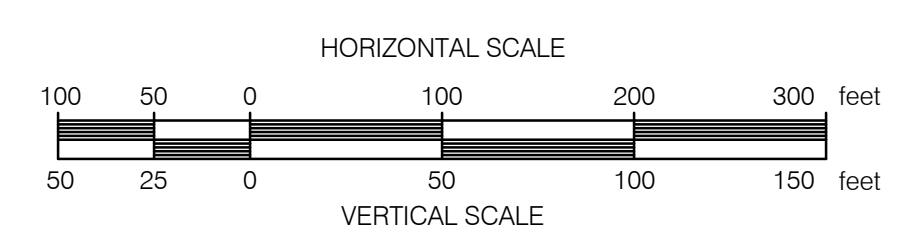


ANGP-EPSC-062	EPSC PLAN	2	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET	LOC. ADDISON COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 50'	DWG. ANGP-T-C-062	REV. 2
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS	1	VGS	VGS	OLD STAGE ROAD RE-ROUTE (11/13/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016							
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016							
						DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016							
						DESIGN MANAGER	SAB	06/28/13	JEO	05/2016							

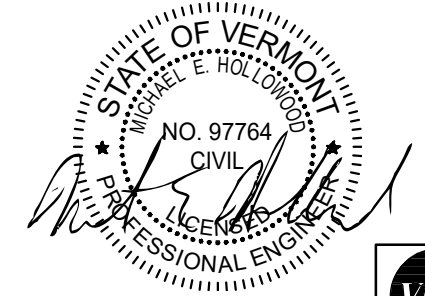
RIGHT-OF-WAY				192 N/F HURLBURT, HERRICK & CHARLOTTE		194 N/F GRACE, LAWRENCE JR. & SANDRA L.		195 PARKS- HURLBURT ROAD		196 N/F HURLBURT, HERRICK & CHARLOTTE	
SURVEY DATA		S 67° 32' W 4570' LT 1568+40	S 22° 32' W -8.2' FT 1568+60 1568+68 ARC: 34.40' LT	S 12° 09' E 00'01' LT 1570+39	S 12° 10' E 00'07' RT 1575+12	S 12° 03' E 00'05' LT 1579+95	S 12° 08' E 00'04' LT 1584+58	S 12° 13' E 00'03' RT 1587+58	S 12° 09' E 00'03' RT 1592+26	S 12° 06' E	



MATERIALS											
COATING											
CLASSIFICATION											
DESIGN FACTOR											

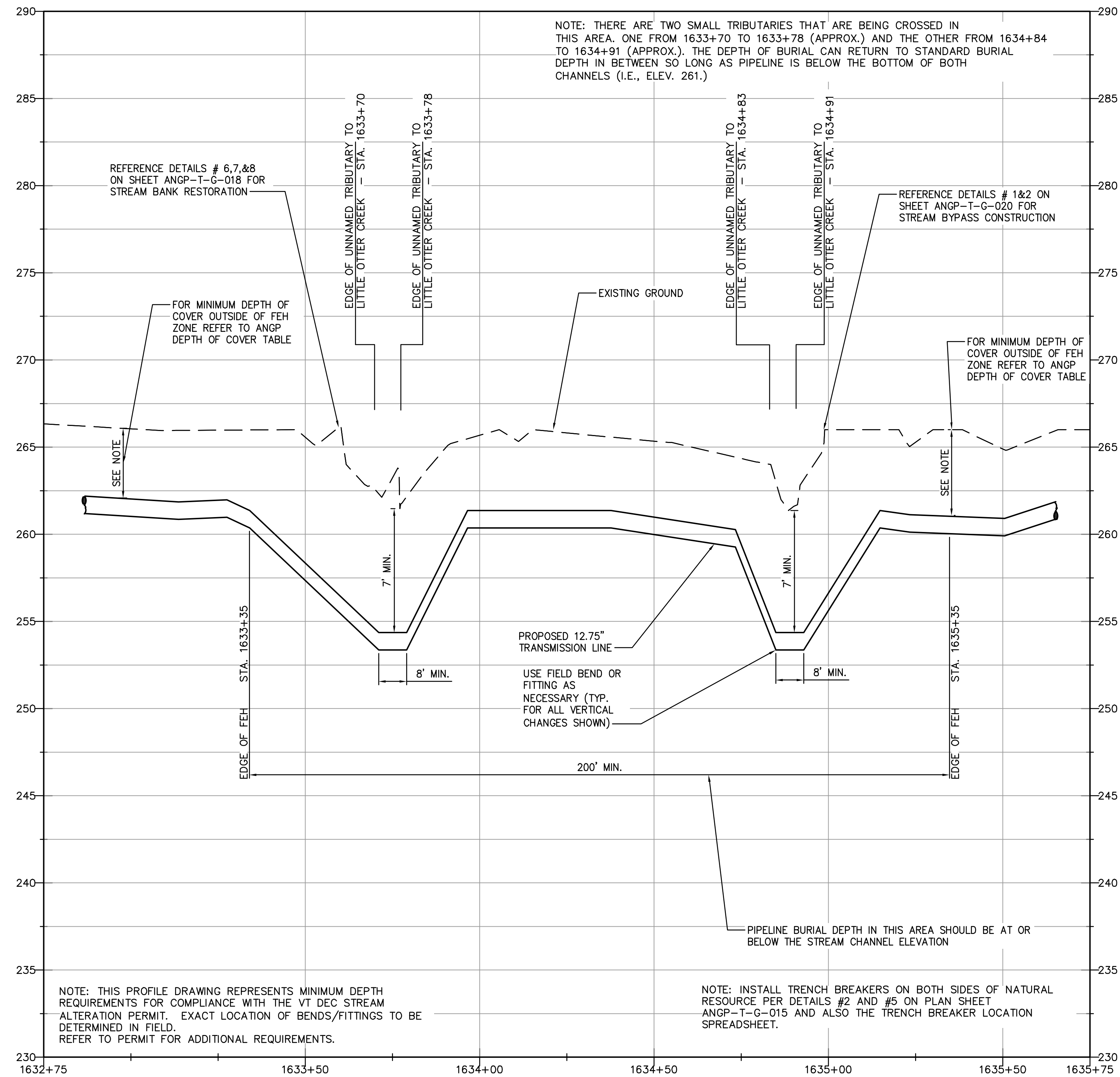


PIPE MATERIAL:		
1	12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	2,942 FT
2	20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:		
A	EPOXY POLYETHYLENE 10/40	2,493 FT
B	FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C	FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	449 FT



ANGP-EPSC-063				EPSC PLAN				2	GJM	BCK	IFC 2016 EDITS (05/2016)				ENVIRONMENTAL				JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET				LOC. ADDISON COUNTY, VERMONT		YEAR: 2016		W.O.		SCALE: 1" = 100'		DWG. ANGP-T-C-063		REV. 2					
G-001 - 010				COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS				1	VGS	VGS	ARCH SITE ADDED (11/13/15)				DRAFTING DESIGNER				GIL	06/28/13	GJM	05/2016																				
DWG. NO.				REFERENCE DWG.				REV	DSN	CK	DESCRIPTION				DRAFTING SUPERVISOR				BZD	06/28/13	BCK	05/2016	DESIGN ENGINEER				MDF	06/28/13	GEW	05/2016	DESIGN MANAGER				SAB	06/28/13	JEO	05/2016	Vermont Gas		38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 • www.ch2m.com	

PROFILE



NOTE: THERE ARE TWO SMALL TRIBUTARIES THAT ARE BEING CROSSED IN THIS AREA. ONE FROM 1633+70 TO 1633+78 (APPROX.) AND THE OTHER FROM 1634+84 TO 1634+91 (APPROX.). THE DEPTH OF BURIAL CAN RETURN TO STANDARD BURIAL DEPTH IN BETWEEN SO LONG AS PIPELINE IS BELOW THE BOTTOM OF BOTH CHANNELS (I.E., ELEV. 261.)

REFERENCE DETAILS # 6,7,&8 ON SHEET ANGP-T-G-018 FOR STREAM BANK RESTORATION

REFERENCE DETAILS # 1&2 ON SHEET ANGP-T-G-020 FOR STREAM BYPASS CONSTRUCTION

FOR MINIMUM DEPTH OF COVER OUTSIDE OF FEH ZONE REFER TO ANGP DEPTH OF COVER TABLE

FOR MINIMUM DEPTH OF COVER OUTSIDE OF FEH ZONE REFER TO ANGP DEPTH OF COVER TABLE

SEE NOTE

SEE NOTE

PROPOSED 12.75" TRANSMISSION LINE

USE FIELD BEND OR FITTING AS NECESSARY (TYP. FOR ALL VERTICAL CHANGES SHOWN)

200' MIN.

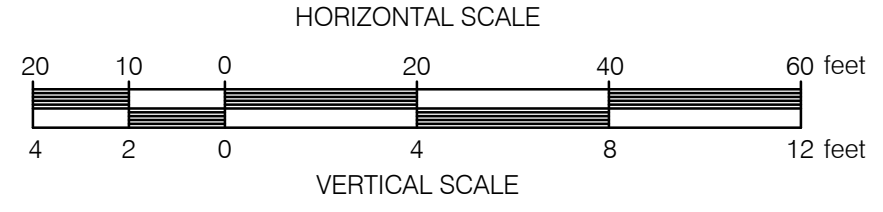
PIPELINE BURIAL DEPTH IN THIS AREA SHOULD BE AT OR BELOW THE STREAM CHANNEL ELEVATION

NOTE: THIS PROFILE DRAWING REPRESENTS MINIMUM DEPTH REQUIREMENTS FOR COMPLIANCE WITH THE VT DEC STREAM ALTERATION PERMIT. EXACT LOCATION OF BENDS/FITTINGS TO BE DETERMINED IN FIELD. REFER TO PERMIT FOR ADDITIONAL REQUIREMENTS.

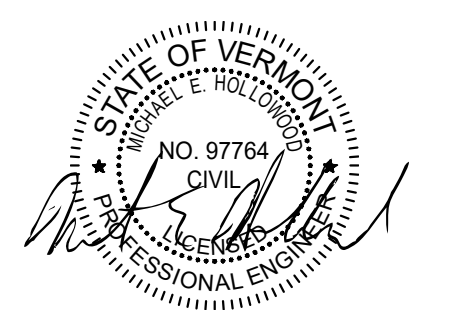
NOTE: INSTALL TRENCH BREAKERS ON BOTH SIDES OF NATURAL RESOURCE PER DETAILS #2 AND #5 ON PLAN SHEET ANGP-T-G-015 AND ALSO THE TRENCH BREAKER LOCATION SPREADSHEET.

**STREAM CROSSING PROFILE
UNNAMED TRIBUTARY TO
LITTLE OTTER CREEK
STATION 1634+27±
MILE POST 30.95**

SCALE: HORIZ. 1"=20'
VERT. 1"=4'



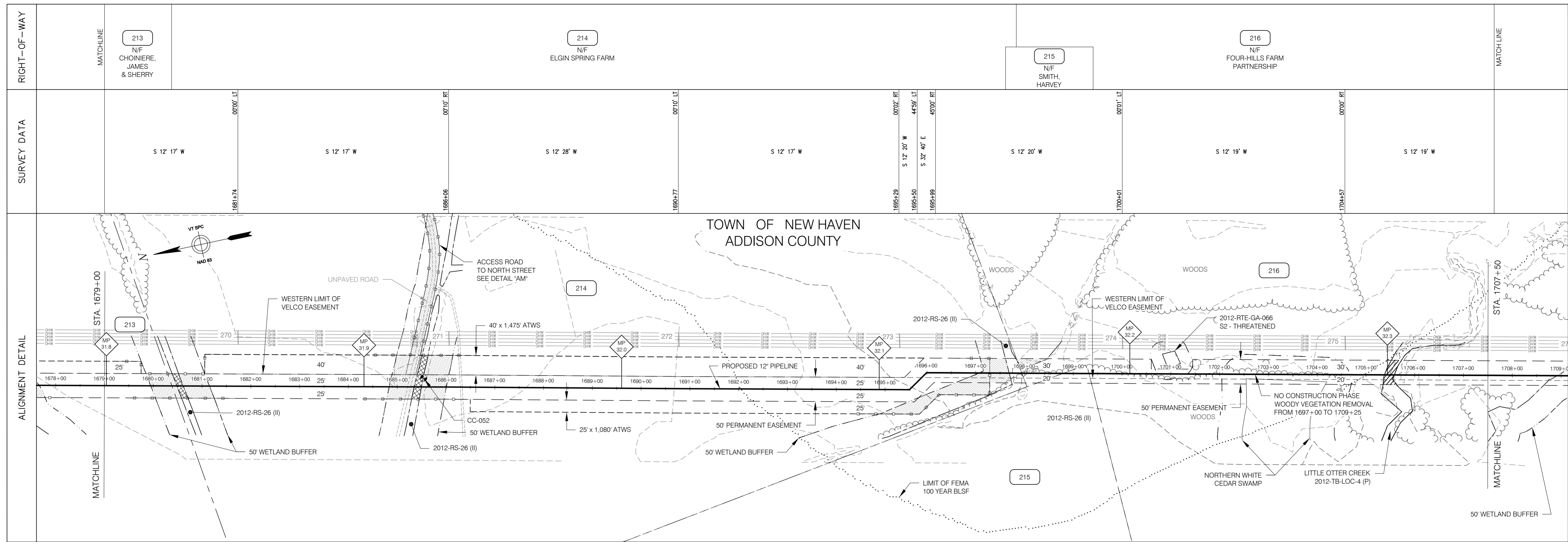
NOTE: STREAM CROSSING MUST BE CONSTRUCTED BETWEEN JUNE 1 AND OCTOBER 1



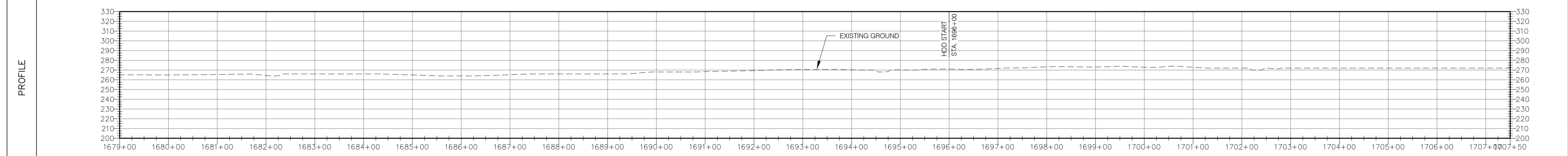
VHB Vanasse Hangen Brustlin, Inc.

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: AS NOTED	DWG. ANGP-T-C-065A	REV. 0
						ENVIRONMENTAL	JLS 06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT OPEN TRENCH STREAM CROSSING PROFILE LOC. ADDISON COUNTY, VERMONT 				
						DRAFTING DESIGNER	GIL 06/28/13	GJM	05/2016					
						DRAFTING SUPERVISOR	BZD 06/28/13	BCK	05/2016					
						DESIGN ENGINEER	MDF 06/28/13	GEW	05/2016					
						DESIGN MANAGER	SAB 06/28/13	JEO	05/2016					

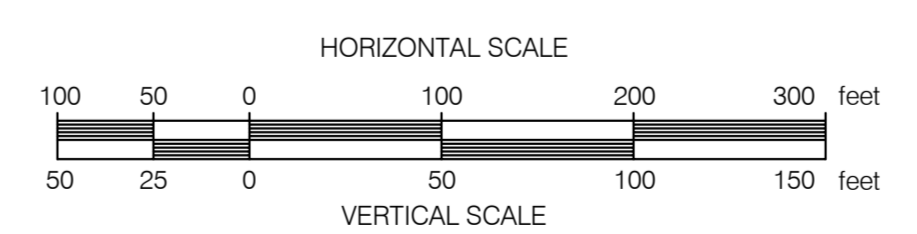




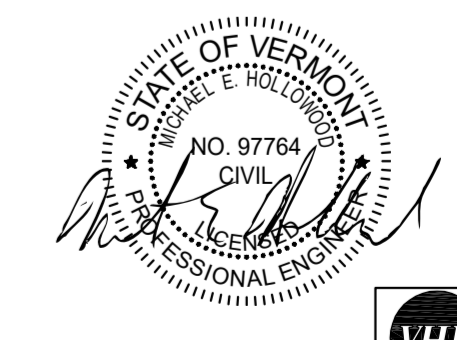
CONST. TYPE	(1A)	(2A)	(W)	(W)	(1A)	(W)	(8)
-------------	------	------	-----	-----	------	-----	-----



MATERIALS	(1)	(1)	(1)	(1)	(1)	(1)
COATING	A	C	A	C	A	B
CLASSIFICATION						1
DESIGN FACTOR						0.5

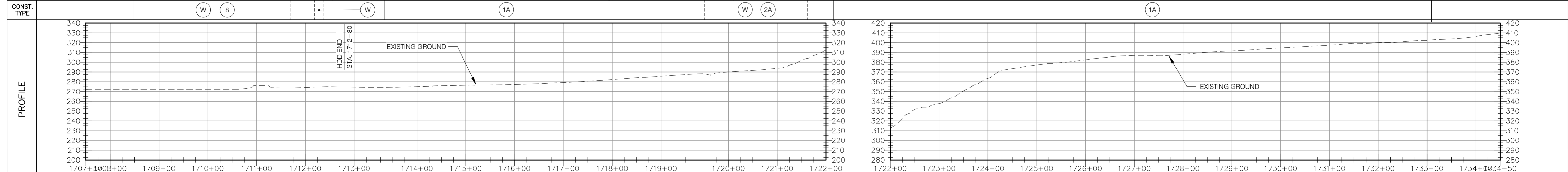
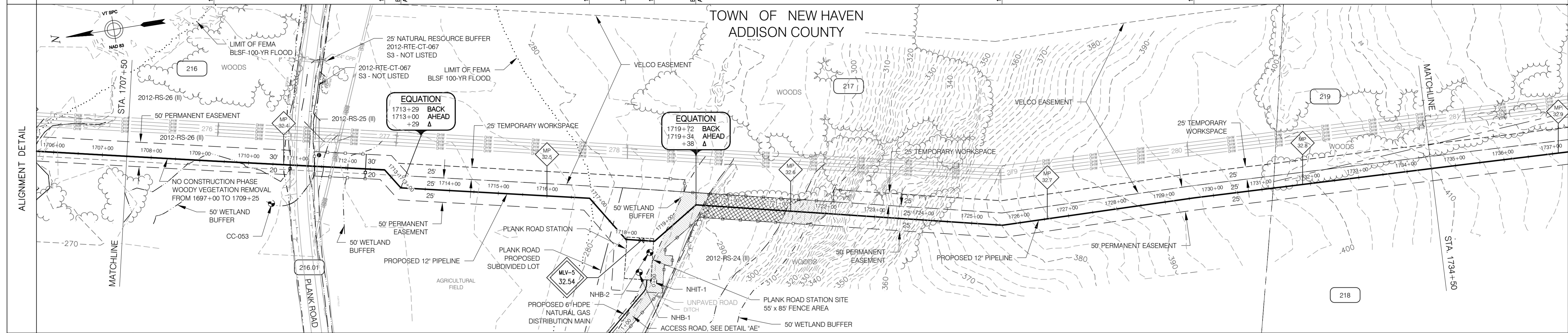


PIPE MATERIAL:		
1	12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	2,850 FT
2	20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:		
A	EPOXY POLYETHYLENE 10/40	1,462 FT
B	FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	1,150 FT
C	FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	238 FT

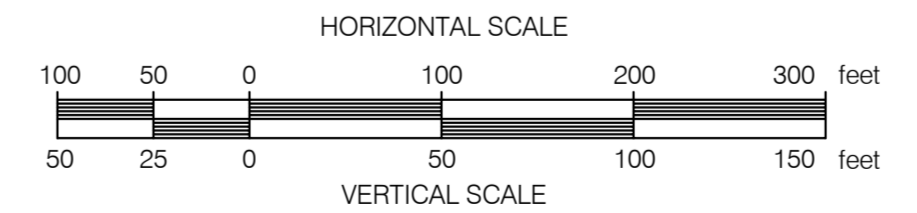


ANGP-T-G-07-010 ACCESS ROAD DETAILS		ANGP-EPSC-067 EPSC PLAN		G-001 - 010 COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS		DWG. NO. REFERENCE DWG.		REV	DSN	CK	DESCRIPTION	ENVIRONMENTAL JLS 06/28/13		DRAFTING DESIGNER GIL 06/28/13		DRAFTING SUPERVISOR BZD 06/28/13		DESIGN ENGINEER MDF 06/28/13		DESIGN MANAGER SAB 06/28/13		<table border="1"> <tr> <th colspan="2">BID</th> <th colspan="2">CONSTRUCTION</th> </tr> <tr> <td>JLS</td> <td>06/28/13</td> <td>JLS</td> <td>05/2016</td> </tr> <tr> <td>GIL</td> <td>06/28/13</td> <td>GJM</td> <td>05/2016</td> </tr> <tr> <td>BZD</td> <td>06/28/13</td> <td>BCK</td> <td>05/2016</td> </tr> <tr> <td>MDF</td> <td>06/28/13</td> <td>GEW</td> <td>05/2016</td> </tr> <tr> <td>SAB</td> <td>06/28/13</td> <td>JEO</td> <td>05/2016</td> </tr> <tr> <th>INITIALS</th> <th>DATE</th> <th>INITIALS</th> <th>DATE</th> </tr> </table>		BID		CONSTRUCTION		JLS	06/28/13	JLS	05/2016	GIL	06/28/13	GJM	05/2016	BZD	06/28/13	BCK	05/2016	MDF	06/28/13	GEW	05/2016	SAB	06/28/13	JEO	05/2016	INITIALS	DATE	INITIALS	DATE	<table border="1"> <tr> <td colspan="2">VERMONT GAS</td> <td colspan="2">PROPOSED 12" PIPELINE</td> <td colspan="2">ADDISON NATURAL GAS PROJECT</td> <td colspan="2">ALIGNMENT SHEET</td> </tr> <tr> <td colspan="4">LOC. ADDISON COUNTY, VERMONT</td> <td>YEAR: 2016</td> <td>W.O.</td> <td>SCALE: 1" = 100'</td> <td>DWG. ANGP-T-C-067</td> </tr> </table>				VERMONT GAS		PROPOSED 12" PIPELINE		ADDISON NATURAL GAS PROJECT		ALIGNMENT SHEET		LOC. ADDISON COUNTY, VERMONT				YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-T-C-067
BID		CONSTRUCTION																																																																					
JLS	06/28/13	JLS	05/2016																																																																				
GIL	06/28/13	GJM	05/2016																																																																				
BZD	06/28/13	BCK	05/2016																																																																				
MDF	06/28/13	GEW	05/2016																																																																				
SAB	06/28/13	JEO	05/2016																																																																				
INITIALS	DATE	INITIALS	DATE																																																																				
VERMONT GAS		PROPOSED 12" PIPELINE		ADDISON NATURAL GAS PROJECT		ALIGNMENT SHEET																																																																	
LOC. ADDISON COUNTY, VERMONT				YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-T-C-067																																																																

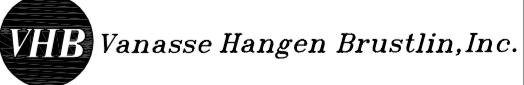
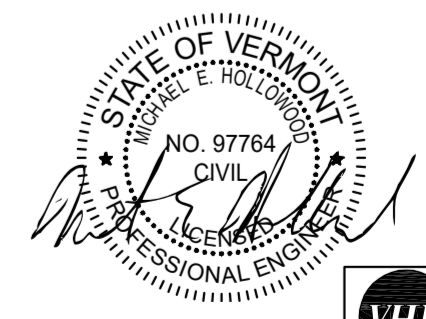
RIGHT-OF-WAY	216 N/F FOUR-HILLS FARM	216.01 PLANK ROAD	217 N/F ELGIN SPRING FARM	219 N/F LUTTON, DAVID	MATCHLINE
				218 N/F ELGIN SPRING FARM	
SURVEY DATA	S 12° 19' W	S 12° 06' W	S 12° 18' W	S 12° 57' W	S 01° 01' W



MATERIALS	529 FT	640 FT	351 FT	1,247 FT
COATING	B	A	C	A
CLASSIFICATION			1	
DESIGN FACTOR			0.5	

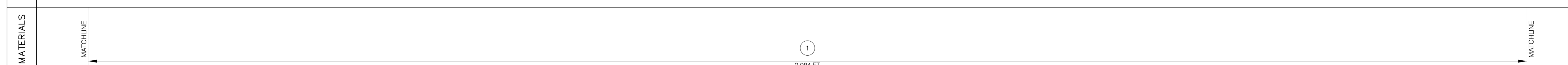
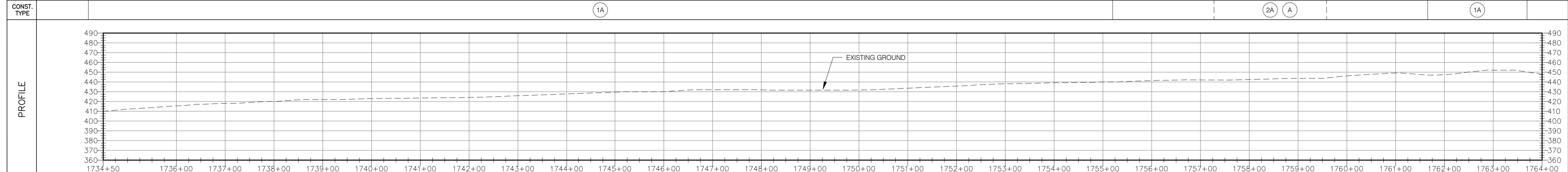
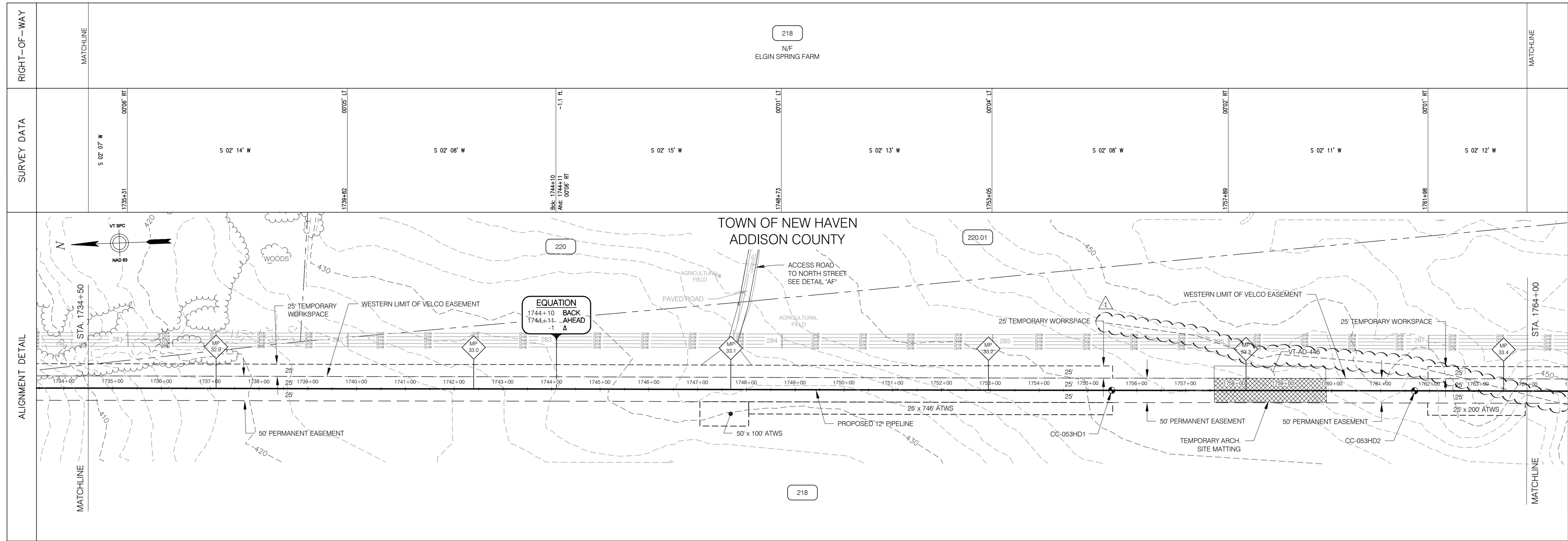


PIPE MATERIAL:	2,767 FT
1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	
2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:	1,887 FT
A EPOXY POLYETHYLENE 10/40	
B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	529 FT
C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	351 FT



ANGP-T-G-07-010	ACCESS ROAD DETAILS																		
ANGP-EPSC-V001	EPSC PLAN																		
ANGP-T-G-021	STATION AND VALVE DETAILS																		
ANGP-EPSC-068	EPSC PLAN																		
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS	1	GJM	TDB															
DWG. NO.	REFERENCE DWG.	REV	DSN	CK															

ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET	LOC. ADDISON COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-T-C-068	REV. 1
DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016							
DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016							
DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016							
DESIGN MANAGER	SAB	06/28/13	JEO	05/2016							
INITIALS	DATE	INITIALS	DATE								



COATING	A
CLASSIFICATION	1
DESIGN FACTOR	0.5

PIPE MATERIAL:

1	12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	2,949 FT
2	20" O.D. X 0.375" WT, API-5L, GR. B	0 FT

PIPE COATING:

A	EPOXY POLYETHYLENE 10/40	2,949 FT
B	FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C	FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	0 FT

HORIZONTAL SCALE
100 50 0 100 200 300 feet

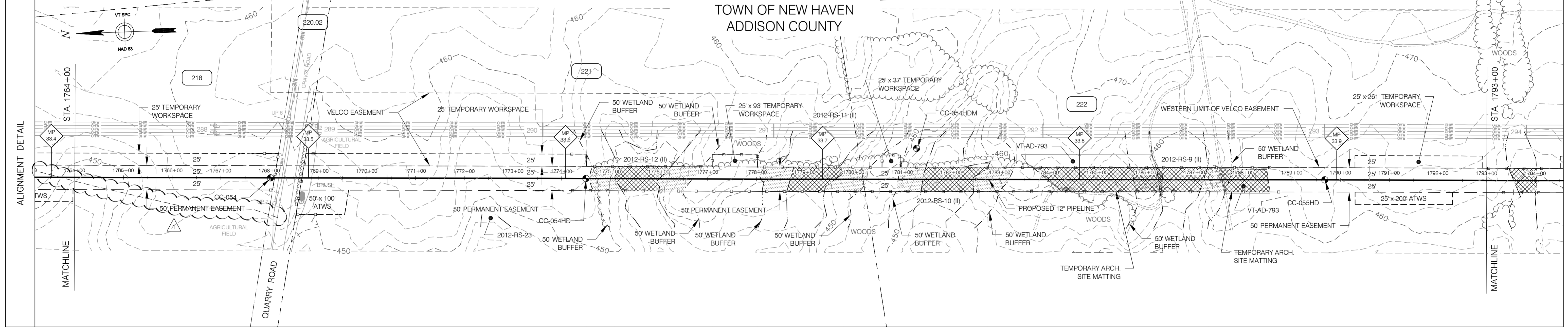
VERTICAL SCALE
50 25 0 50 100 150 feet

STATE OF VERMONT
NO. 97764
CIVIL
Vermont Gas
PROFESSIONAL ENGINEER

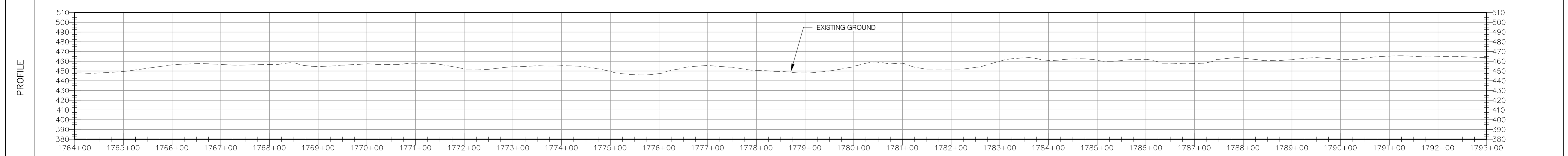
VHB Vanasse Hangen Brustlin, Inc.

										VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET		 Vermont Gas 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.chacompanies.com	 CIA 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.chacompanies.com			
ANGP-T-G-07-010	ACCESS ROAD DETAILS					JLS	06/28/13	JLS	05/2016	LOC. ADDISON COUNTY, VERMONT						
ANGP-EPSC-069	EPSC PLAN					GIL	06/28/13	GJM	05/2016			YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-T-C-069	REV. 1
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS					BZD	06/28/13	BCK	05/2016							
DWG. NO.	REFERENCE DWG.					MDF	06/28/13	GEW	05/2016							
						SAB	06/28/13	JEO	05/2016							
						INITIALS	DATE	INITIALS	DATE							

RIGHT-OF-WAY			218 N/F ELGIN SPRING FARM	220.02 QUARRY ROAD	221 N/F FARNSWORTH, RALPH & YVONNE	222 N/F SMITH, JEAN		
SURVEY DATA			S 02° 12' W 1766+88	S 02° 11' W 1769+98	S 02° 11' W 1773+62	S 02° 07' W 1783+88	S 02° 09' W 1789+68	S 02° 17' W 1793+00



CONST. TYPE	1A	11	1A	W	2A	1A	W	2A	1A	2A	W	A	2A	W	A	1A	2A
-------------	----	----	----	---	----	----	---	----	----	----	---	---	----	---	---	----	----



MATERIALS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
COATING	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A

CLASSIFICATION	1																	
DESIGN FACTOR	0.5																	

PIPE MATERIAL:

1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	2,888 FT
2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT

PIPE COATING:

A EPOXY POLYETHYLENE 10/40	1995 FT
B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	893 FT

HORIZONTAL SCALE

VERTICAL SCALE

ANGP-EPSC-070	EPSC PLAN																	
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS	1	GJM	BCK	IFC 2016 EDITS (05/2016)													
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG.	ANGP-T-C-070	REV. 1			

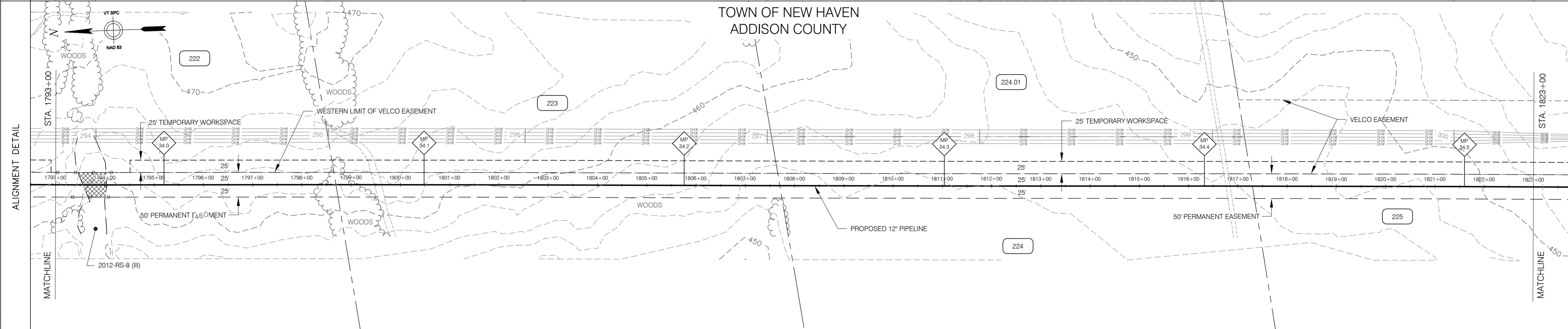
ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016
DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016
DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016
DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016
DESIGN MANAGER	SAB	06/28/13	JEO	05/2016

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
ALIGNMENT SHEET

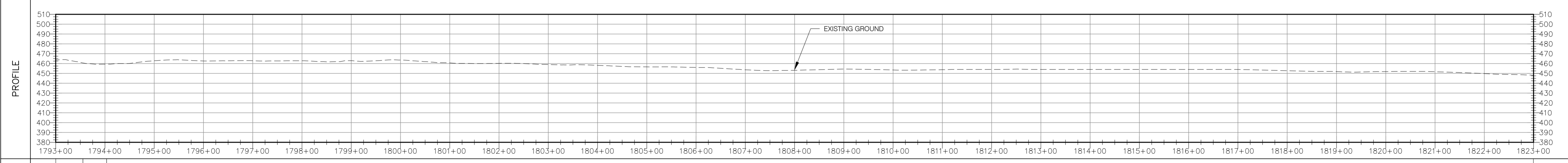
LOC. ADDISON COUNTY, VERMONT

RIGHT-OF-WAY	MATCHLINE	222 N/F SMITH, JEAN	223 N/F SMITH, JEAN	224 N/F FOUR-HILLS FARM	225 N/F FOUR-HILLS FARM	MATCHLINE
--------------	-----------	---------------------------	---------------------------	-------------------------------	-------------------------------	-----------

SURVEY DATA	1793+82 S 02° 17' W 00°15' LT	1796+54 S 02° 02' W 00°06' RT	1802+53 S 02° 08' W 00°06' RT	1807+44 S 02° 15' W 00°05' LT	1811+76 S 02° 10' W 00°05' LT	1816+49 S 02° 05' W 00°06' RT	1821+38 S 02° 12' W 00°06' RT	1823+00 S 02° 21' W
-------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	------------------------



CONST. TYPE	2A W	1A
-------------	------	----



MATERIALS	MATCHLINE	2	2	1	MATCHLINE
COATING	A	C		A	
CLASSIFICATION				1	
DESIGN FACTOR				0.5	

PIPE MATERIAL:

1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	3,000 FT
2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT

PIPE COATING:

A EPOXY POLYETHYLENE 10/40	2,952 FT
B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	48 FT

HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 5'

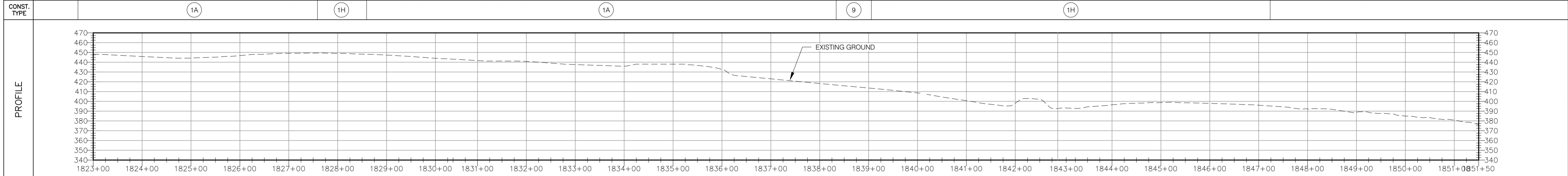
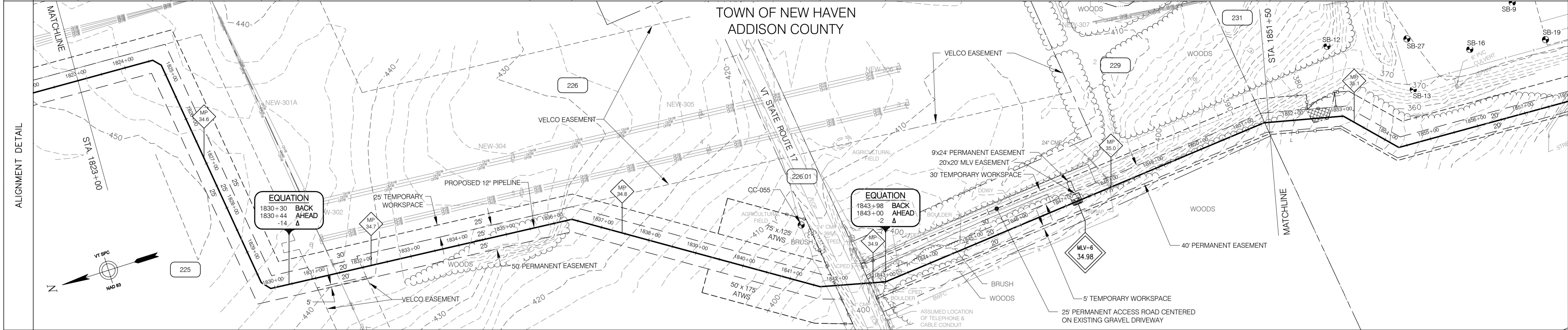
VHB Vanasse Hangen Brustlin, Inc.

CIA
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chacompanies.com

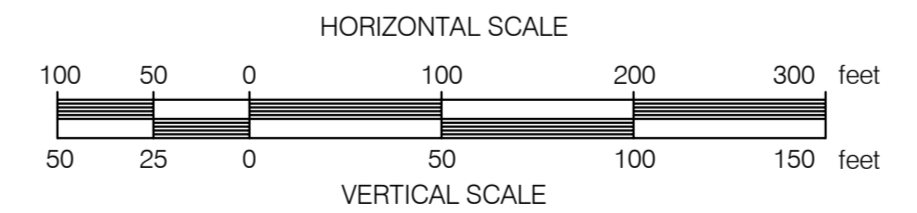
DESCRIPTION		BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET		VERMONT GAS		Vermont Gas	DWG. ANGP-T-C-071	REV. 0
INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'				
		JLS	06/28/13	JLS	05/2016					
ENVIRONMENTAL		GIL	06/28/13	GJM	05/2016	LOC. ADDISON COUNTY, VERMONT YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-T-C-071 REV. 0				
DRAFTING DESIGNER		BZD	06/28/13	BCK	05/2016					
DRAFTING SUPERVISOR		MDF	06/28/13	GEW	05/2016					
DESIGN ENGINEER		SAB	06/28/13	JEO	05/2016					
DESIGN MANAGER										

ANGP-EPSC-071	EPSC PLAN									
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS									
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-T-C-071 REV. 0

RIGHT-OF-WAY	MATCHLINE	225	226	226.01	229	231	MATCHLINE
		N/F FOUR-HILLS FARM	N/F ELGIN SPRING FARM	ROUTE 17	N/F VERMONT TRANSOCO, LLC	N/F VERMONT TRANSOCO LLC	
		S 02° 21' W	S 04° 38' W	S 13° 17' W	S 05° 13' E	S 12° 46' W	
		1824+59 44'59" RT S 47° 21' W 1824+79 35'32" RT S 82° 54' W 1825+30 00'00" LT	1835+49 00'00" LT 1836+37 28'10" RT	1841+64 19'31" LT 1842+98 1843+00 1844+00 -2.2' LT		1851+40 17'59" RT	



MATERIALS	MATCHLINE	1	1	1	MATCHLINE
COATING		1881 FT A	70 FT C	883 FT A	
CLASSIFICATION			1		
DESIGN FACTOR			0.5		



PIPE MATERIAL:	2,834 FT
1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	
2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:	2,764 FT
A EPOXY POLYETHYLENE 10/40	
B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	70 FT



ANGP-T-C-072A	VAOT PROFILE VT STATE RTE. 17 (MAIN ST.) CROSSING DETAIL	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	REV.
ANGP-EPSC-072	EPSC PLAN									2016		1" = 100'	ANGP-T-C-072	0
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS													
DWG. NO.	REFERENCE DWG.													

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
ALIGNMENT SHEET

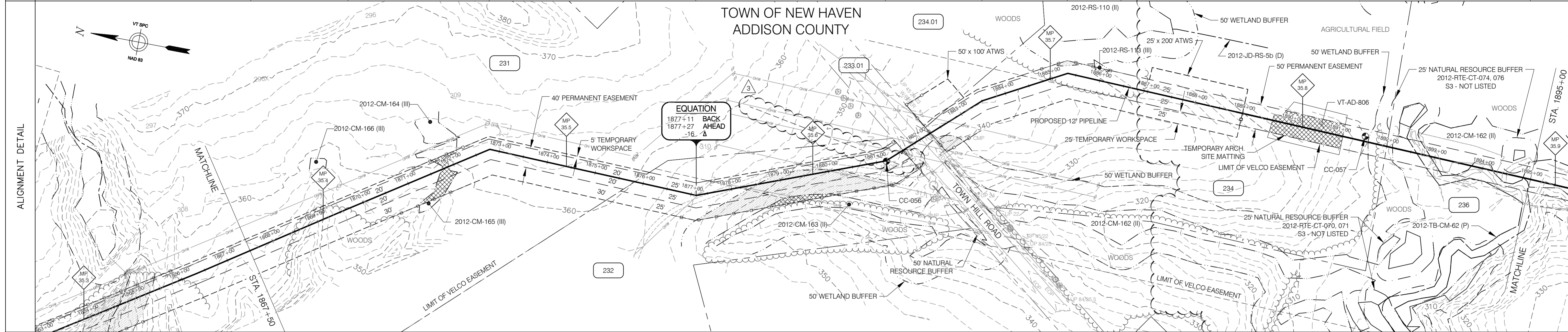
LOC. ADDISON COUNTY, VERMONT

Vermont Gas logo

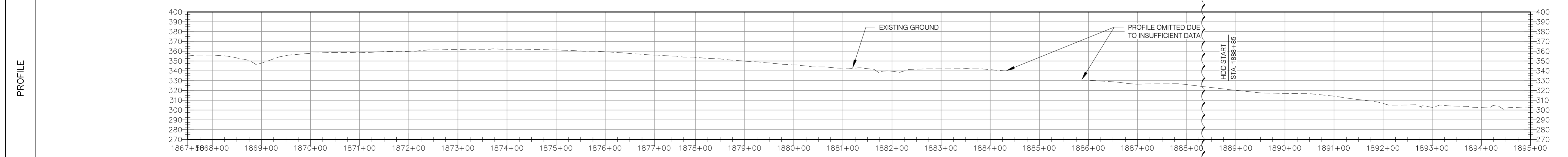
CIA logo

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.ciacompanies.com

RIGHT-OF-WAY			231 N/F VERMONT TRANSCO	232 N/F COUSINO, EUGENE & LINDA	233.01 TOWN HILL ROAD	234.01 N/F SHORTSLEEVE, GEORGE & JANE	234 N/F SHORTSLEEVE, GEORGE & JANE	236 N/F MAINE DRILLING AND BLASTING		
SURVEY DATA		00°25' RT	S 33° 52' E	S 33° 26' E	S 01° 54' W	-15.9 ft.	S 21° 01' E	S 42° 38' E	S 28° 30' E	S 02° 12' W



CONST. TYPE			1J W	1E	1J W	9	1J	1E	A	8
-------------	--	--	------	----	------	---	----	----	---	---



MATERIALS			1	1	1	1	1	1	1	1
COATING			A	C	A	C	A	C	A	B
CLASSIFICATION										
DESIGN FACTOR										

COATING										
CLASSIFICATION										
DESIGN FACTOR										

PIPE MATERIAL:

- 1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112 2,734 FT
- 2 20" O.D. X 0.375" WT, API-5L, GR. B 0 FT

PIPE COATING:

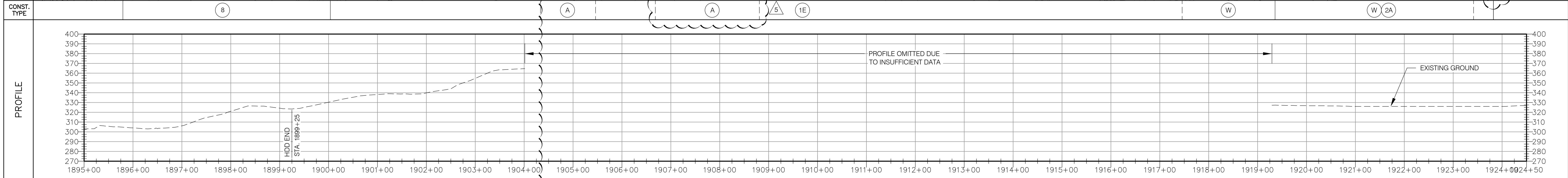
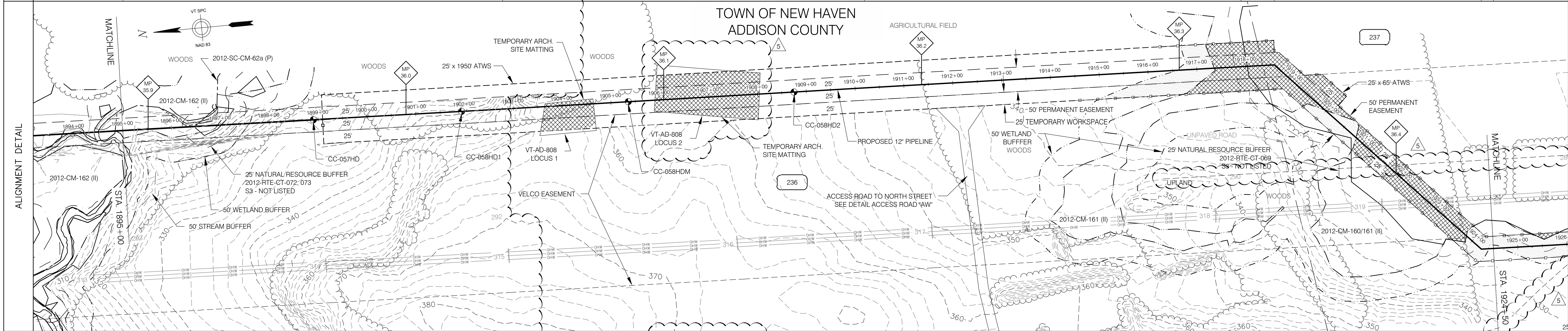
- A EPOXY POLYETHYLENE 10/40 1,873 FT
- B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL 615 FT
- C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT' 246 FT

HORIZONTAL SCALE

VERTICAL SCALE

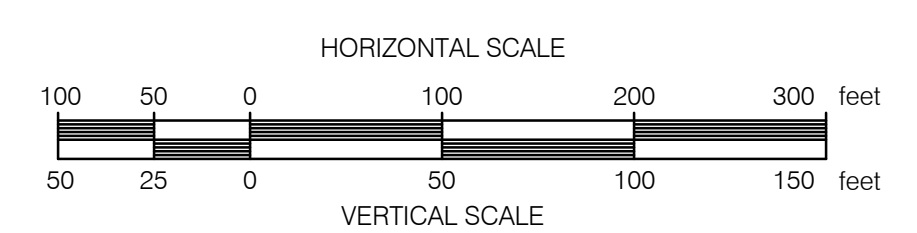
ANGP-EPSC-074		EPSC PLAN		3	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET				
G-001 - 010		COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS		2	BCK	BCK	SUPPLEMENTAL SURFACE INFO ADDED (3/16/16)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016	LOC. ADDISON COUNTY, VERMONT				
DWG. NO.		REFERENCE DWG.		1	GJM	TDB	VHB HDD AREA REVISIONS (6/24/15)	DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-T-C-074	REV. 3

RIGHT-OF-WAY	MATCHLINE	236 N/F MAINE DRILLING AND BLASTING	237 N/F PALMER, JOHN & CARMEN	MATCHLINE
SURVEY DATA		S 02 16' E	S 02 09' E	S 02 16' E
		00'06" LT	00'07" LT	00'07" LT
		1902+78	1910+19	1917+91
				44'58" LT
				1918+59
				44'54" LT
				1924+25

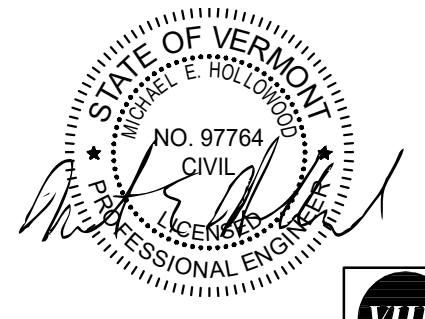


MATERIALS	MATCHLINE	1 425 FT	1 1,733 FT	1 792 FT	MATCHLINE
-----------	-----------	-------------	---------------	-------------	-----------

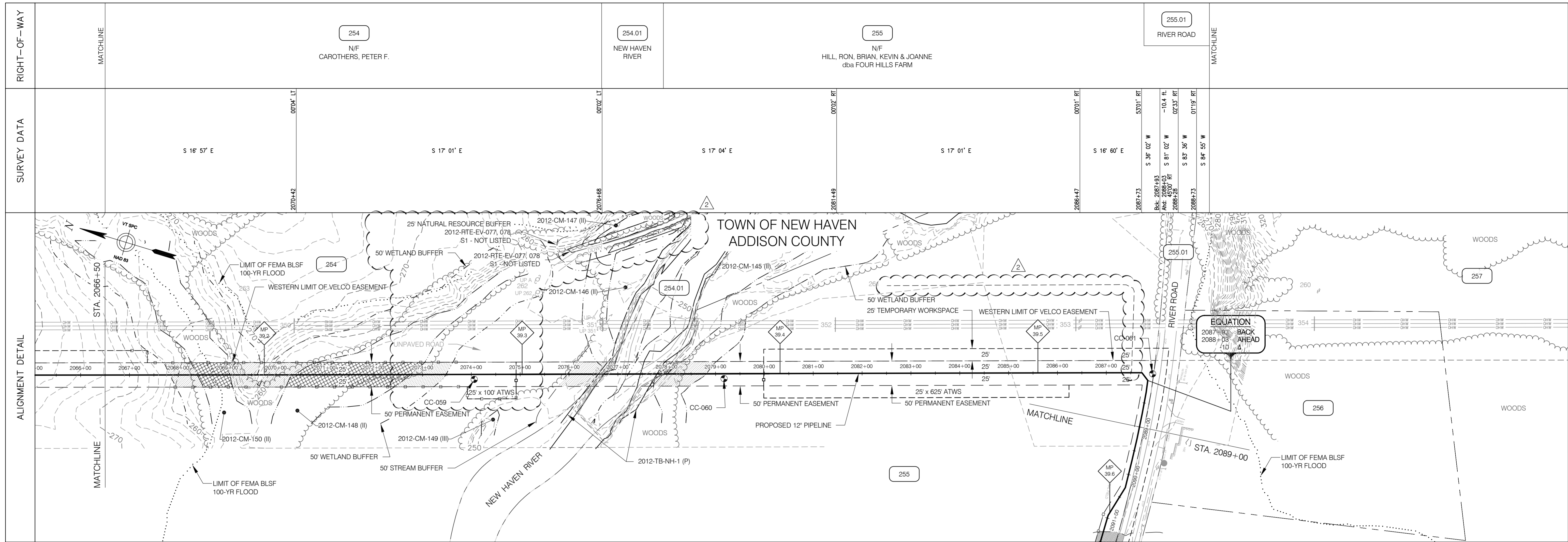
COATING	B	A	C
CLASSIFICATION		1	
DESIGN FACTOR		0.5	



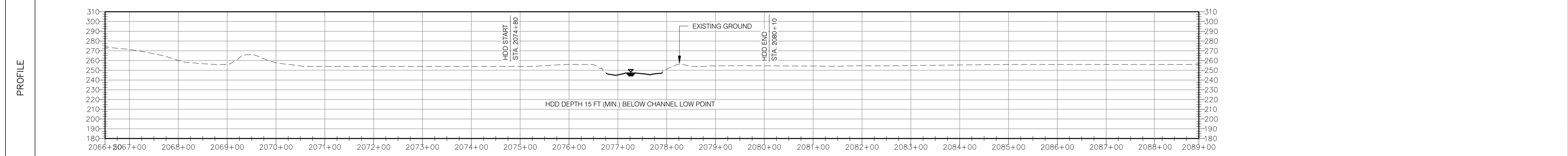
PIPE MATERIAL:		
1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	2,950 FT	
2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT	
PIPE COATING:		
A EPOXY POLYETHYLENE 10/40	1,733 FT	
B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	425 FT	
C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	792 FT	



		5	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET							
ANGP-T-G-07-010	ACCESS ROAD DETAILS	4	BCK	BCK	SUPPLEMENTAL SURFACE INFO ADDED (3/16/16)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016	LOC.	ADDISON COUNTY, VERMONT			YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG.
ANGP-EPSC-075	EPSC PLAN	2	BCK	TDB	VHB HDD AREA REVISIONS (6/24/15)	DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016								
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS	1	BCK	TDB	VHB EDITS (6/09/15)	DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016								
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	ACCESS ROAD "AG" REMOVED (5/14/15)	DESIGN MANAGER	SAB	06/28/13	JEO	05/2016								
					DESCRIPTION		INITIALS	DATE	INITIALS	DATE								

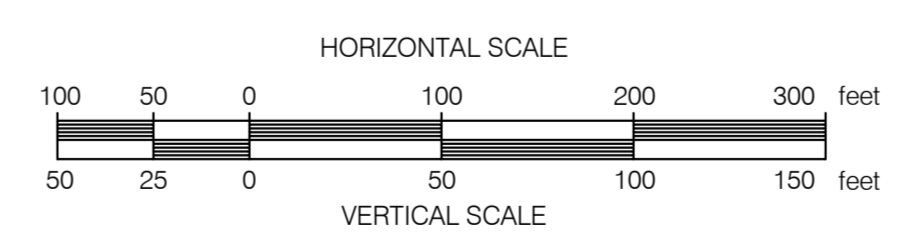


CONST. TYPE		(W)	(1A)	(W)		(8)		(1A)	(4B)	
-------------	--	-----	------	-----	--	-----	--	------	------	--



MATERIALS	MATCHLINE	(1)	(1)	(1)	(1)	(1)	MATCHLINE
		132 FT	566 FT	132 FT	530 FT	880 FT	

COATING	A	C	A	B	A
CLASSIFICATION	1				
DESIGN FACTOR	0.5				

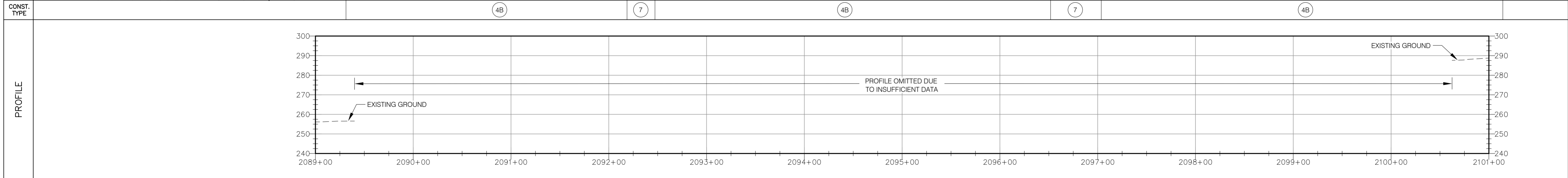
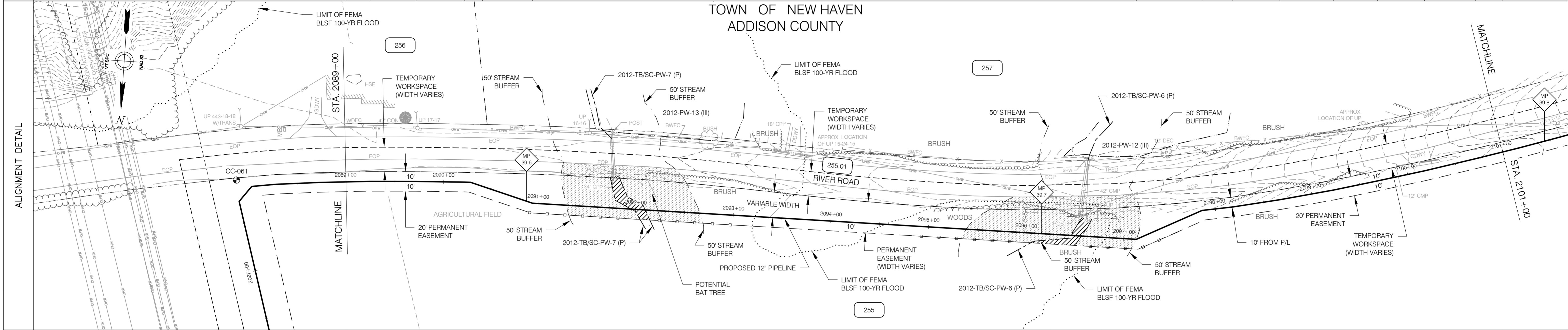


PIPE MATERIAL:		
1	12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	2,240 FT
2	20" O.D. X 0.375" WT, API-5L, GR. B	0 FT
PIPE COATING:		
A	EPOXY POLYETHYLENE 10/40	1,144 FT
B	FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	530 FT
C	FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	566 FT

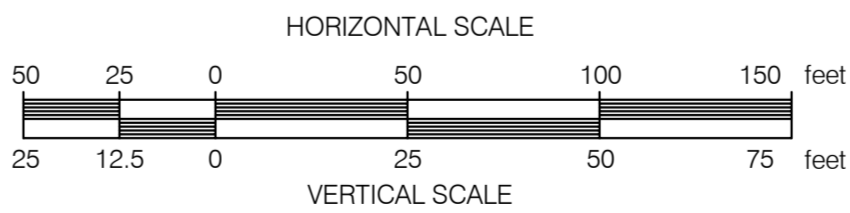


				ENVIRONMENTAL		JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET			
				DRAFTING DESIGNER		GIL	06/28/13	GJM	05/2016	LOC. ADDISON COUNTY, VERMONT			
				DRAFTING SUPERVISOR		BZD	06/28/13	BCK	05/2016			SCALE: 1" = 100'	DWG. ANGP-T-C-081
				DESIGN ENGINEER		MDF	06/28/13	GEW	05/2016				REV. 2
				DESIGN MANAGER		SAB	06/28/13	JEO	05/2016				
				DESCRIPTION		INITIALS	DATE	INITIALS	DATE				
ANGP-T-G-07-010	ACCESS ROAD DETAILS												
ANGP-EPSC-081	EPSC PLAN			2	GJM	BCK	IFC 2016 EDITS (05/2016)						
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS			1	GJM	TDB	VHB HDD AREA REVISIONS (6/24/15)						
DWG. NO.	REFERENCE DWG.			REV	DSN	CK							

RIGHT-OF-WAY	SURVEY DATA	MATCHLINE
	2089+25 S 84° 35' W 01'14" RT	
	2089+72 S 86° 10' W 00'45" RT	
	2090+21 S 86° 45' W 00'24" RT	
	2090+27 S 87° 20' W 17'28" RT	
	2090+94 N 75° 11' W 15'17" LT	
	2097+13 S 89° 31' W 27'09" LT	
	2097+86 S 62° 23' W 17'12" RT	
	2098+18 S 79° 35' W 02'17" LT	
	2098+67 S 77° 17' W 01'26" LT	
	2098+72 S 75° 52' W 01'27" LT	
	2098+89 S 74° 24' W 00'28" LT	
	2100+18 S 73° 45' W 01'13" LT	
	2100+71 S 72° 42' W 00'32" LT	
	2100+71 S 72° 09' W	MATCHLINE



MATERIALS	COATING	CLASSIFICATION	DESIGN FACTOR
229 FT (1) A	1	0.5	
137 FT (1) C			
272 FT (1) A			
175 FT (1) C			
387 FT (1) A			

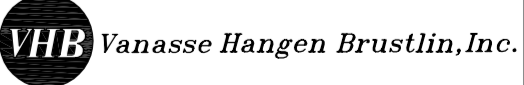
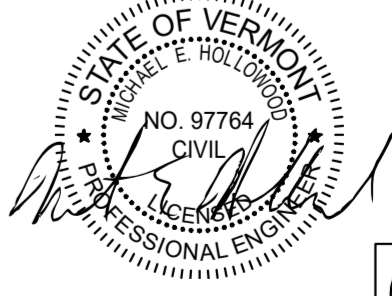


PIPE MATERIAL:

1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112	1,200 FT
2 20" O.D. X 0.375" WT, API-5L, GR. B	0 FT

PIPE COATING:

A EPOXY POLYETHYLENE 10/40	888 FT
B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL	0 FT
C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'	312 FT



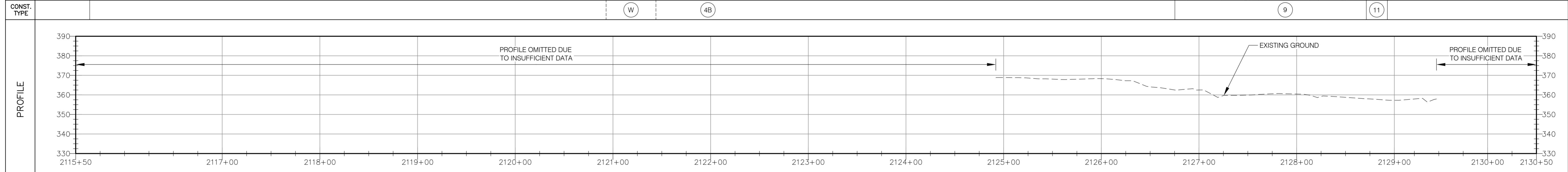
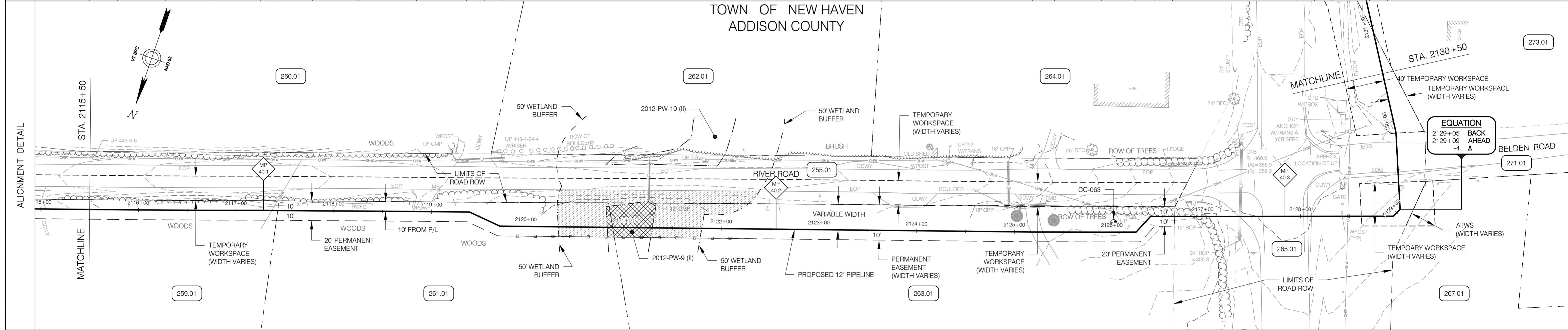
ANGP-EPSC-082A	EPSC PLAN	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 50'	DWG. ANGP-T-C-082A	REV. 0
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS													
DWG. NO.	REFERENCE DWG.													

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
ALIGNMENT SHEET

LOC. ADDISON COUNTY, VERMONT

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 · www.ciacompanies.com

RIGHT-OF-WAY	MATCHLINE	255.01 RIVER ROAD	265.01 ROUTE 7	MATCHLINE		
	259.01 N/F CUNNINGHAM, BARBARA	261.01 N/F LAFFRAMBOISE, EDWARD, & BONNIE	263.01 N/F MANY, BRUCE, & BECKY	267.01 NERI, ANTHONY, & NANCY	271.01 BELDEN ROAD	273.01 N/F DUPOISE, STEPHEN, & MARCIA
SURVEY DATA	S 71° 38' W 00096' LT 2115+79	S 71° 29' W 00095' LT 2116+28	S 71° 24' W 0014' LT 2116+77	S 71° 09' W 0024' RT 2117+25	S 71° 33' W 0090' LT 2117+44	S 71° 24' W 0009' LT 2117+78
	S 71° 32' W 0007' RT 2118+26	S 71° 32' W 0007' RT 2118+85	S 71° 40' W 0007' RT 2119+36	S 71° 18' W 24'34' RT 2119+39	N 84° 08' W 24'08' LT 2119+73	S 71° 44' W
						S 71° 15' W 0013' RT 2125+41
						S 70° 59' W 0015' LT 2125+89
						S 23° 49' W 4799' LT 2126+25
						S 70° 59' W 4799' RT 2126+46
						0002' RT 2126+61
						S 26° 01' W 4590' LT 2128+95
						-4.5' E S 21° 50' E 0000' LT 2129+38
						S 21° 50' E 0001' LT 2129+61
						S 22° 02' E 0932' LT 2129+88
						S 31° 34' E



MATERIALS	MATCHLINE	① 483 FT	① 147 FT	① 491 FT	① 375 FT	MATCHLINE
COATING	A	C	A	C		
CLASSIFICATION			3			
DESIGN FACTOR			0.5			

PIPE MATERIAL:

- 1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112
- 2 20" O.D. X 0.375" WT, API-5L, GR. B

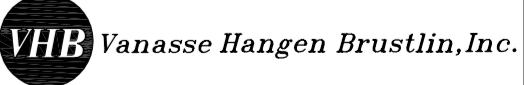
PIPE COATING:

- A EPOXY POLYETHYLENE 10/40 974 FT
- B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL 0 FT
- C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT' 522 FT

HORIZONTAL SCALE

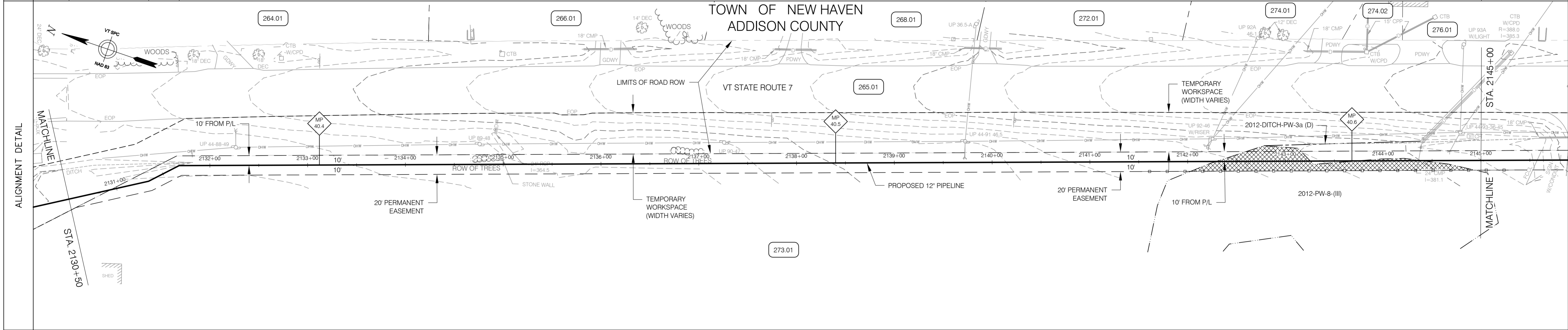
VERTICAL SCALE

1,496 FT
0 FT
974 FT
0 FT
522 FT

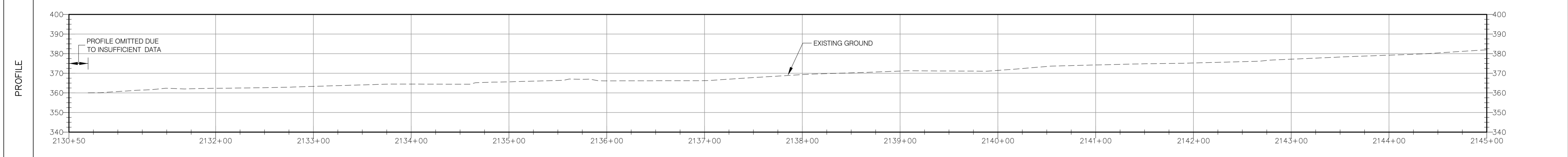


ANGP-VAOT-083C	VAOT PROFILE RTE. 7 (ETHAN ALLEN HGWY) CROSSING DETAIL					ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET	LOC. ADDISON COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 50'	DWG. ANGP-T-C-083A	REV. 0
ANGP-VAOT-083A	VAOT ALIGNMENT SHEET					DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016							
ANGP-EPSC-083A	EPSC PLAN					DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016							
G-001 - 010	COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS					DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016							
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE								

RIGHT-OF-WAY	MATCHLINE	265.01 ROUTE 7	273.01 N/F DUPOISE, STEPHEN; & MARCIA	MATCHLINE
	SURVEY DATA	S 31° 34' E	S 19° 08' E	

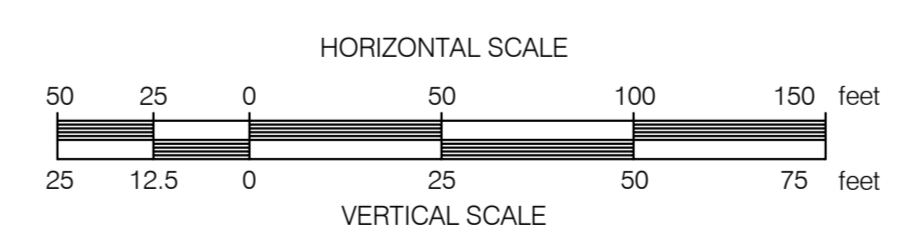


CONST. TYPE	11	4B	W
-------------	----	----	---



MATERIALS	MATCHLINE	1	1	1	1	MATCHLINE
	44 FT	1,136 FT	210 FT	60 FT		

COATING	C	A	C	A
CLASSIFICATION		3		
DESIGN FACTOR		0.5		



PIPE MATERIAL:
 1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112 1,450 FT
 2 20" O.D. X 0.375" WT, API-5L, GR. B 0 FT
 PIPE COATING:
 A EPOXY POLYETHYLENE 10/40 1,196 FT
 B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL 0 FT
 C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT' 254 FT



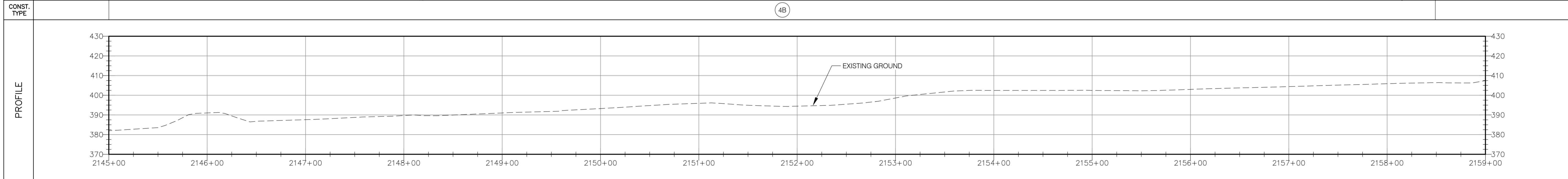
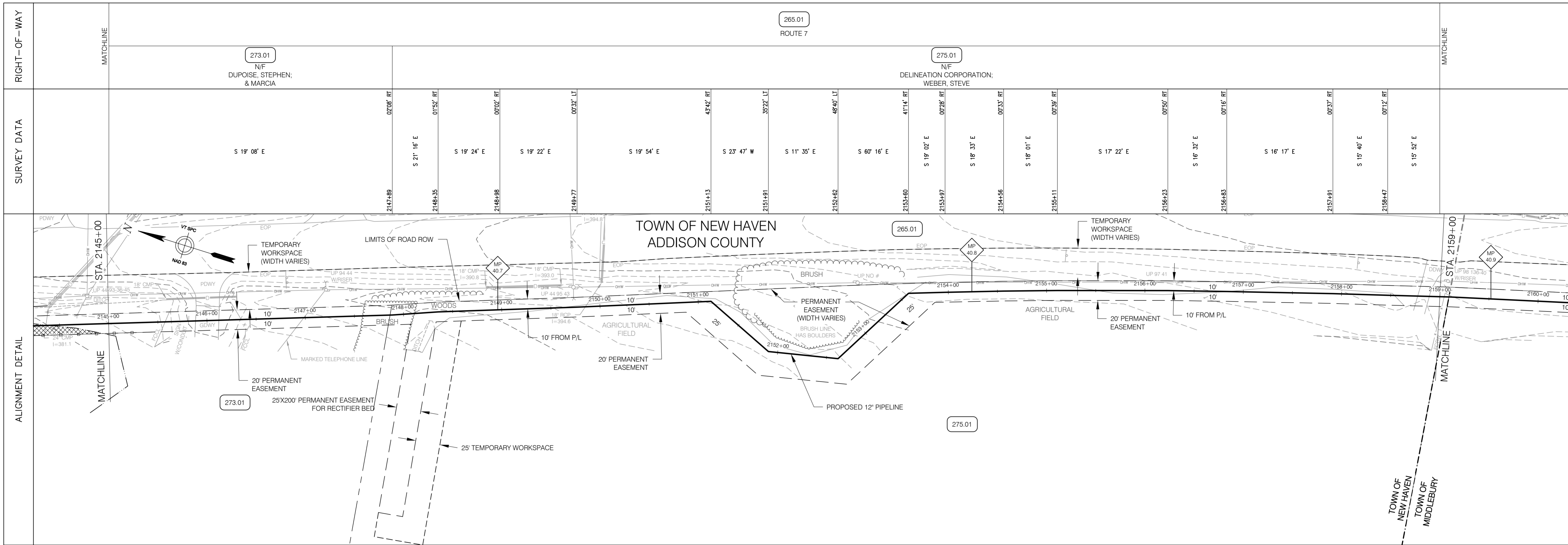
ANGP-VAOT-083B VAO T ALIGNMENT SHEET		ANGP-EPSC-083B EPSC PLAN		G-001 - 010 COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS		DWG. NO. REFERENCE DWG.		REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 50'	DWG. ANGP-T-C-083B	REV. 0

VERMONT GAS
 PROPOSED 12" PIPELINE
 ADDISON NATURAL GAS PROJECT
 ALIGNMENT SHEET

LOC. ADDISON COUNTY, VERMONT

VERMONT GAS
 38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 - www.vermontgas.com

CIA
 38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 - www.ciacompanies.com



MATERIALS													
COATING	1 1,400 FT												
CLASSIFICATION	A												
DESIGN FACTOR	3												
	0.5												

1
1,400 FT

HORIZONTAL SCALE

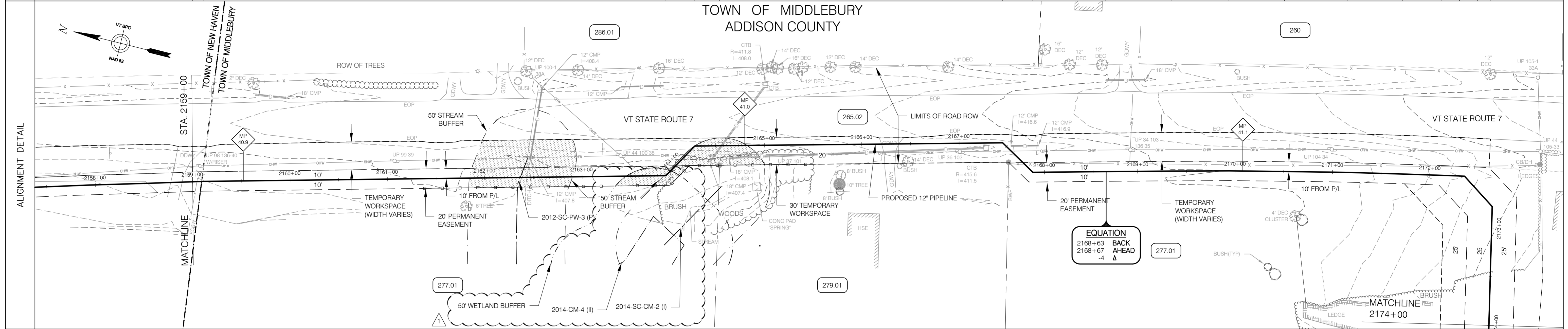
VERTICAL SCALE

PIPE MATERIAL:
 1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112
 2 20" O.D. X 0.375" WT, API-5L, GR. B
PIPE COATING:
 A EPOXY POLYETHYLENE 10/40
 B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL
 C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT'

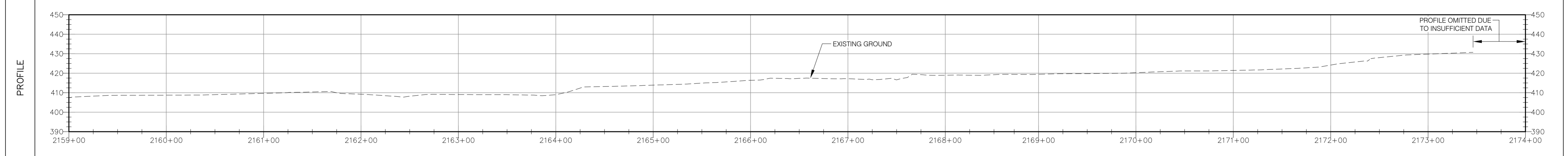
1,400 FT
0 FT
1,400 FT
0 FT

ANGP-VAOT-084A VAOT ALIGNMENT SHEET		ENVIRONMENTAL		JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET						
ANGP-EPSC-084A EPSC PLAN		DRAFTING DESIGNER		GIL	06/28/13	GJM	05/2016							
G-001 - 010 COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS		DRAFTING SUPERVISOR		BZD	06/28/13	BCK	05/2016	LOC. ADDISON COUNTY, VERMONT		YEAR: 2016		SCALE: 1" = 50'	DWG. ANGP-T-C-084A	
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	W.O.	SCALE: 1" = 50'	DWG.	ANGP-T-C-084A	REV. 0

RIGHT-OF-WAY	265.01 ROUTE 7		275.01 N/F DELINEATION CORPORATION; CORBIN, THOMAS		277.01 N/F DELINEATION CORPORATION; CORBIN, THOMAS		265.02 ROUTE 7		279.01 N/F DRAGON, SANDRA JEANNE		277.01 N/F DELINEATION CORPORATION; CORBIN, THOMAS		MATCHLINE								
SURVEY DATA	S 15° 52' E	0° 12' LT	S 14° 40' E		44° 55' LT	44° 55' RT	00° 08' RT	S 14° 32' E	44° 58' LT	44° 59' LT	00° 15' RT	00° 06' RT	00° 03' RT	00° 11' RT	00° 51' RT	00° 18' RT	00° 51' RT	00° 41' RT	44° 59' RT	43° 55' RT	MATCHLINE



CONST. TYPE		4B	7	4B		4E		4B		1E		
-------------	--	----	---	----	--	----	--	----	--	----	--	--



MATERIALS	MATCHLINE		① 284 FT	① 296 FT		① 916 FT		MATCHLINE
-----------	-----------	--	-------------	-------------	--	-------------	--	-----------

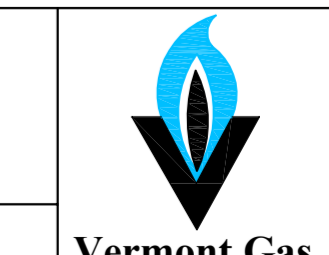
COATING	A		C		A	
CLASSIFICATION	3					
DESIGN FACTOR	0.5					

PIPE MATERIAL:
 1 12.75" O.D. X 0.312" WT, API-5L, GR. X65, PSL-2, AND ADDITIONAL SPECIFICATIONS IN 192.112 1,496 FT
 2 20" O.D. X 0.375" WT, API-5L, GR. B 0 FT

PIPE COATING:
 A EPOXY POLYETHYLENE 10/40 1,200 FT
 B FBE, ABRASION RESISTANT OVERCOAT, 14-16 MILS/40 MILS, 54-56 MILS TOTAL 0 FT
 C FBE 14-16 MILS, W/ 1-1/2" REINFORCED CONCRETE W/ 140 LBS/FT' 296 FT

HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 50'

ANGP-VAOT-084B VAOT ALIGNMENT SHEET		ANGP-EPSC-084B EPSC PLAN		G-001 - 010 COVER, INDEX, LEGEND & NOTES, AND CONSTRUCTION DETAILS		DWG. NO. REFERENCE DWG.		REV	DSN	TDB	CK	ENV. EDITS (6/08/15)	DESCRIPTION		INITIALS	DATE	INITIALS	DATE	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ALIGNMENT SHEET		LOC. ADDISON COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 50'	DWG. ANGP-T-C-084B	REV. 1
												BID	CONSTRUCTION													
												JLS	06/28/13	JLS	05/2016											
												GIL	06/28/13	GJM	05/2016											
												BZD	06/28/13	BCK	05/2016											
												MDF	06/28/13	GEW	05/2016											
												SAB	06/28/13	JEO	05/2016											

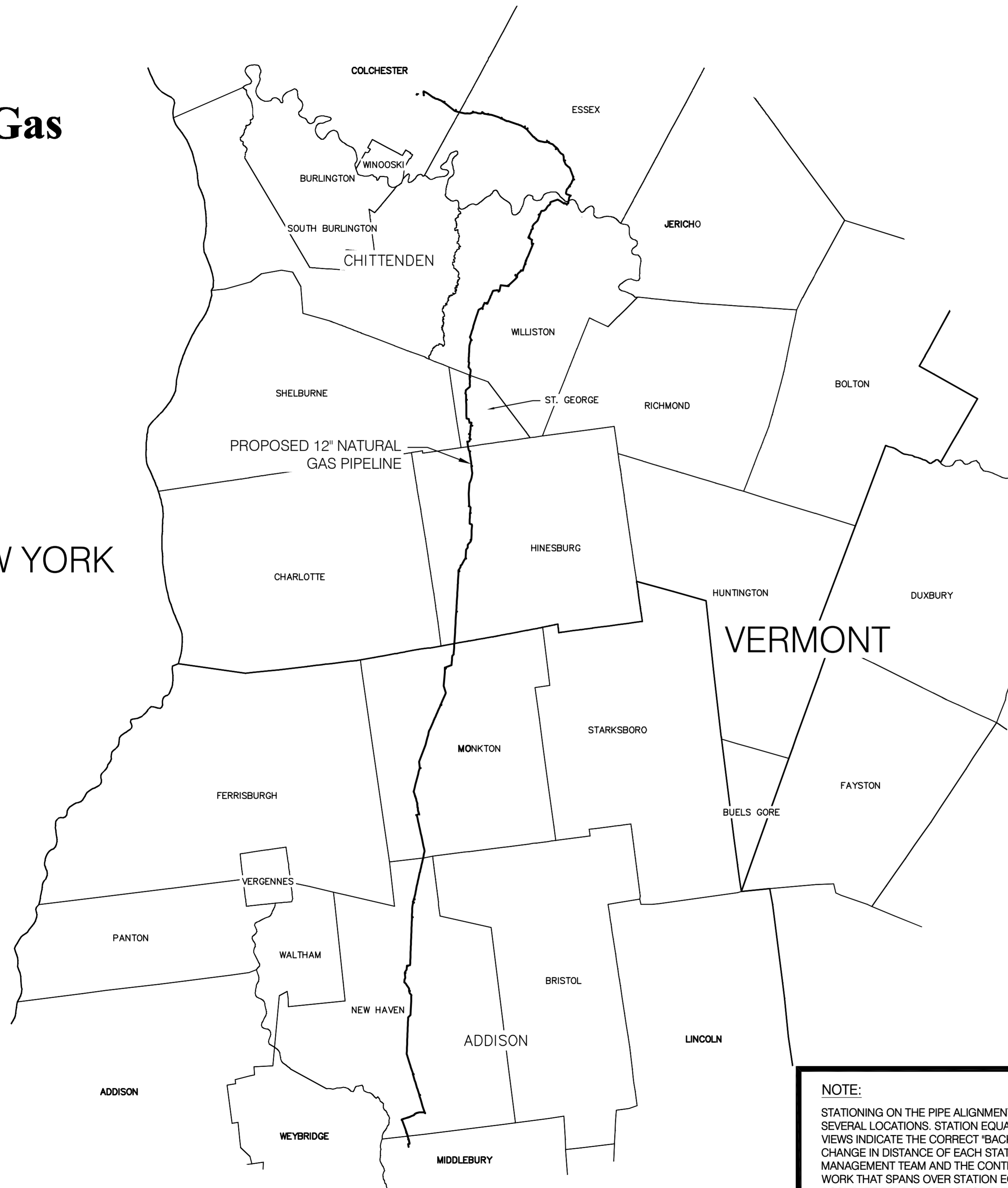
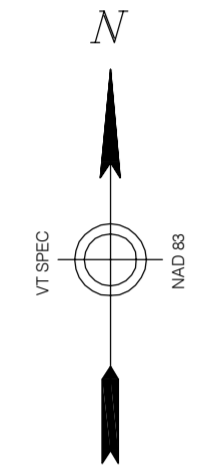


CHITTENDEN AND ADDISON COUNTIES

VERMONT

ADDISON NATURAL GAS PROJECT
TRANSMISSION MAINLINE

DRAWING INDEX

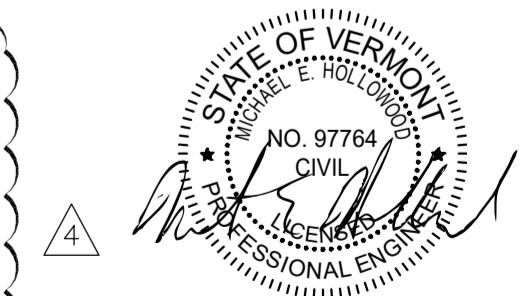


DRAWING NUMBER	DRAWING TITLE
ANGP-T-G-001	COVER SHEET
ANGP-T-G-002	INDEX SHEET
ANGP-T-G-003	LEGEND & NOTES
ANGP-T-G-004 TO 006	CONSTRUCTION CONFIGURATION DETAILS
ANGP-T-G-007 TO 010	ACCESS ROAD DETAILS
ANGP-T-G-011	EPSC NOTES
ANGP-T-G-012 TO 020C	CONSTRUCTION DETAILS
ANGP-T-G-021	STATION AND VALVE DETAILS
ANGP-T-G-022	WILLISTON PIPEYARD
ANGP-T-G-023	PLANK ROAD PIPEYARD

DRAWING #	REV #	DRAWING TITLE	DRAWING #	REV #	DRAWING TITLE
ANGP-EPSC-001A	1	EPSC PLAN	ANGP-EPSC-045	0	EPSC PLAN
ANGP-EPSC-001B	1	EPSC PLAN	ANGP-EPSC-046	0	EPSC PLAN
ANGP-EPSC-002	3	EPSC PLAN	ANGP-EPSC-047	1	EPSC PLAN
ANGP-EPSC-003	2	EPSC PLAN	ANGP-EPSC-048	1	EPSC PLAN
ANGP-EPSC-004	1	EPSC PLAN	ANGP-EPSC-049	2	EPSC PLAN
ANGP-EPSC-005	3	EPSC PLAN	ANGP-EPSC-050	2	EPSC PLAN
ANGP-EPSC-006	1	EPSC PLAN	ANGP-EPSC-051	3	EPSC PLAN
ANGP-EPSC-007	1	EPSC PLAN	ANGP-T-C-051A	0	STREAM CROSSING PROFILE
ANGP-EPSC-008	1	EPSC PLAN	ANGP-EPSC-052	1	EPSC PLAN
ANGP-EPSC-009	1	EPSC PLAN	ANGP-EPSC-053	0	EPSC PLAN
ANGP-EPSC-010	1	EPSC PLAN	ANGP-EPSC-054	0	EPSC PLAN
ANGP-EPSC-011	1	EPSC PLAN	ANGP-EPSC-055	1	EPSC PLAN
ANGP-EPSC-012	2	EPSC PLAN	ANGP-EPSC-056	0	EPSC PLAN
ANGP-EPSC-013	1	EPSC PLAN	ANGP-EPSC-057	0	EPSC PLAN
ANGP-EPSC-014	2	EPSC PLAN	ANGP-EPSC-058	0	EPSC PLAN
ANGP-EPSC-015	3	EPSC PLAN	ANGP-EPSC-059	1	EPSC PLAN
ANGP-EPSC-016	2	EPSC PLAN	ANGP-EPSC-060	1	EPSC PLAN
ANGP-EPSC-017	1	EPSC PLAN	ANGP-EPSC-061A	2	EPSC PLAN
ANGP-EPSC-018	0	EPSC PLAN	ANGP-T-C-061AA	0	STREAM CROSSING PROFILE
ANGP-EPSC-019	0	EPSC PLAN	ANGP-EPSC-061B	2	EPSC PLAN
ANGP-EPSC-020	1	EPSC PLAN	ANGP-EPSC-062	2	EPSC PLAN
ANGP-EPSC-021	1	EPSC PLAN	ANGP-EPSC-063	2	EPSC PLAN
ANGP-EPSC-022	0	EPSC PLAN	ANGP-EPSC-064	0	EPSC PLAN
ANGP-EPSC-023B	1	EPSC PLAN	ANGP-EPSC-065	0	EPSC PLAN
ANGP-EPSC-024	1	EPSC PLAN	ANGP-T-C-065A	0	STREAM CROSSING PROFILE
ANGP-EPSC-025	1	EPSC PLAN	ANGP-EPSC-066	0	EPSC PLAN
ANGP-EPSC-026	0	EPSC PLAN	ANGP-EPSC-067	0	EPSC PLAN
ANGP-EPSC-027	2	EPSC PLAN	ANGP-EPSC-068	1	EPSC PLAN
ANGP-EPSC-028	1	EPSC PLAN	ANGP-EPSC-069	1	EPSC PLAN
ANGP-T-C-028A	0	STREAM CROSSING PROFILE	ANGP-EPSC-070	1	EPSC PLAN
ANGP-EPSC-029	1	EPSC PLAN	ANGP-EPSC-071	0	EPSC PLAN
ANGP-EPSC-030	0	EPSC PLAN	ANGP-EPSC-072	0	EPSC PLAN
ANGP-EPSC-031	1	EPSC PLAN	ANGP-EPSC-073	0	EPSC PLAN
ANGP-EPSC-032	1	EPSC PLAN	ANGP-EPSC-074	3	EPSC PLAN
ANGP-EPSC-033	1	EPSC PLAN	ANGP-EPSC-075	5	EPSC PLAN
ANGP-EPSC-034	1	EPSC PLAN	ANGP-EPSC-076	2	EPSC PLAN
ANGP-EPSC-035	1	EPSC PLAN	ANGP-EPSC-077	1	EPSC PLAN
ANGP-EPSC-036	1	EPSC PLAN	ANGP-EPSC-078	1	EPSC PLAN
ANGP-EPSC-037	0	EPSC PLAN	ANGP-EPSC-079	2	EPSC PLAN
ANGP-EPSC-038	0	EPSC PLAN	ANGP-EPSC-080	0	EPSC PLAN
ANGP-EPSC-039	0	EPSC PLAN	ANGP-EPSC-081	2	EPSC PLAN
ANGP-T-C-039A	0	STREAM CROSSING PROFILE	ANGP-EPSC-082A	0	EPSC PLAN
ANGP-EPSC-040	1	EPSC PLAN	ANGP-EPSC-082B	0	EPSC PLAN
ANGP-EPSC-041	2	EPSC PLAN	ANGP-EPSC-083A	0	EPSC PLAN
ANGP-EPSC-042	2	EPSC PLAN	ANGP-EPSC-083B	0	EPSC PLAN
ANGP-T-C-042A	0	STREAM CROSSING PROFILE	ANGP-EPSC-084A	0	EPSC PLAN
ANGP-EPSC-043	2	EPSC PLAN	ANGP-EPSC-084B	1	EPSC PLAN
ANGP-EPSC-044	0	EPSC PLAN	ANGP-EPSC-085	0	EPSC PLAN

NOTE:
STATIONING ON THE PIPE ALIGNMENT UTILIZES STATION EQUATIONS IN SEVERAL LOCATIONS. STATION EQUATION CALL-OUTS NOTED ON THE PLAN VIEWS INDICATE THE CORRECT "BACK " AND "AHEAD" STATIONS AS WELL AS THE CHANGE IN DISTANCE OF EACH STATION EQUATION. THE CONSTRUCTION MANAGEMENT TEAM AND THE CONTRACTOR SHOULD PROPERLY DOCUMENT WORK THAT SPANS OVER STATION EQUATIONS IN ORDER TO PROVIDE ACCURATE FIELD RECORDS FOR THE OWNER.

NOTE:
THE ALIGNMENT AND EPSC PLAN SETS DATED 05/2016 SUPERSEDE ALL PREVIOUSLY "ISSUED FOR CONSTRUCTION" PLAN SETS AND INCORPORATE ALL PROJECT CHANGES SUBSEQUENT TO THE 2015 "ISSUED FOR CONSTRUCTION" PLAN SETS DATED 04/02/15. THE PLAN CHANGES ARE INDICATED BY REVISION CLOUDS AND/OR DENOTED IN THE REVISION BOX, WITH THE EXCEPTION OF THE FOLLOWING MODIFICATIONS: REMOVAL OF THE CATHODIC PROTECTION TEST LEAD LOCATIONS, THE ADDITIONAL SHEETS FOR TRENCH BREAKER LOCATIONS, THE ADDITIONAL SHEETS FOR DEPTH OF COVER, AND THE ADDITIONAL SHEETS FOR PIPE PROFILES AT JURISDICTIONAL STREAM CROSSINGS.



VHB Vanasse Hangen Brustlin, Inc.

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG. NO.	REV.
		4	GJM	BCK	IFC 2016 EDITS (05/2016)	JLS	06/28/13	JLS	05/2016	2016		NOTED	ANGP-T-G-001	4
		3	BCK	TDB	CP TEST LEAD EDIT (9/14/15)	GIL	06/28/13	GJM	05/2016					
		2	GJM	TDB	PLAN SET ISSUED FOR COLLATERAL PERMIT AMENDMENTS (6/30/15)	BZD	06/28/13	BCK	05/2016					
		1	BCK	TDB	COMPLETE PLAN SET RE-ISSUE (6/15/15)	MDF	06/28/13	GEW	05/2016					
						SAB	06/28/13	JEO	05/2016					

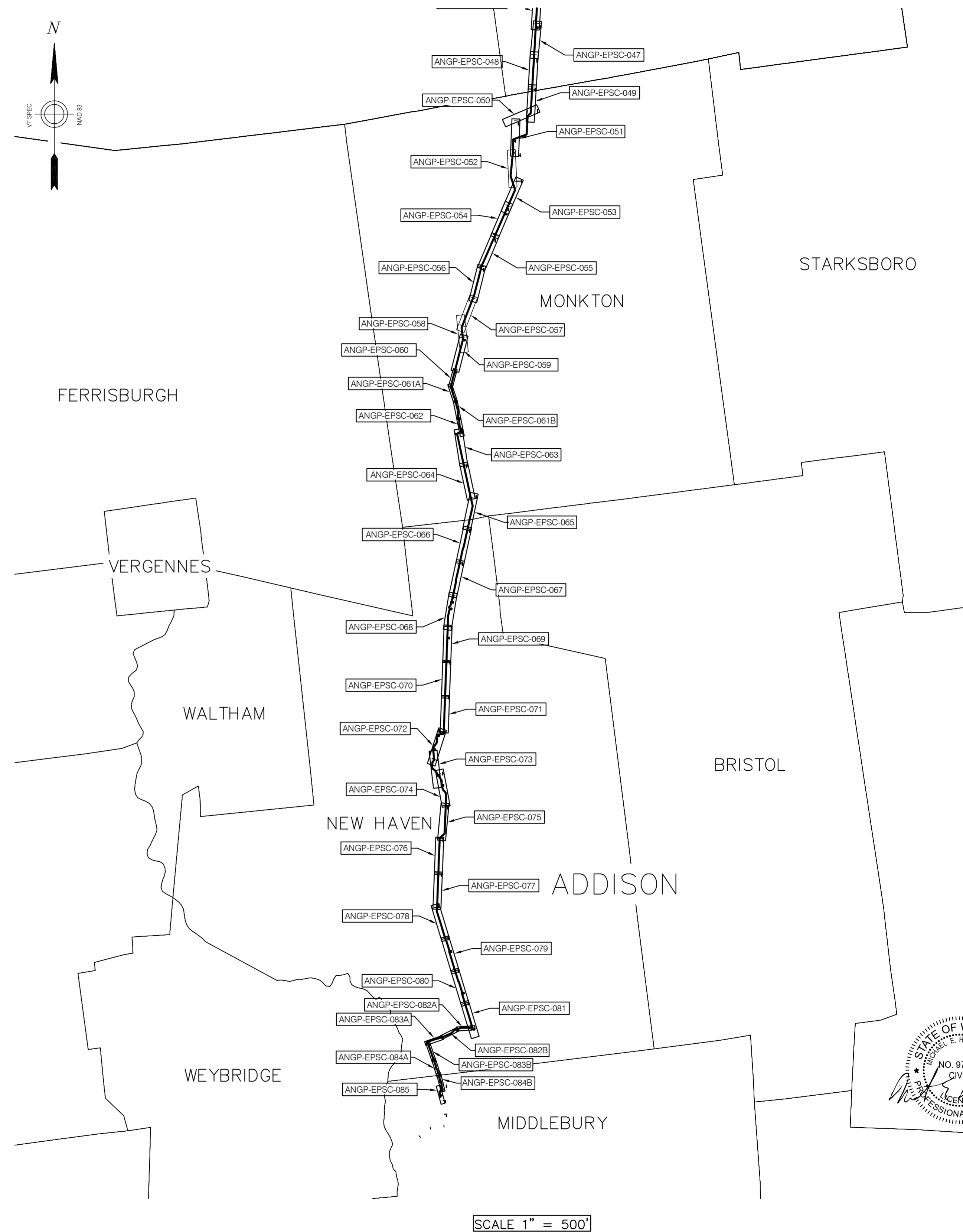
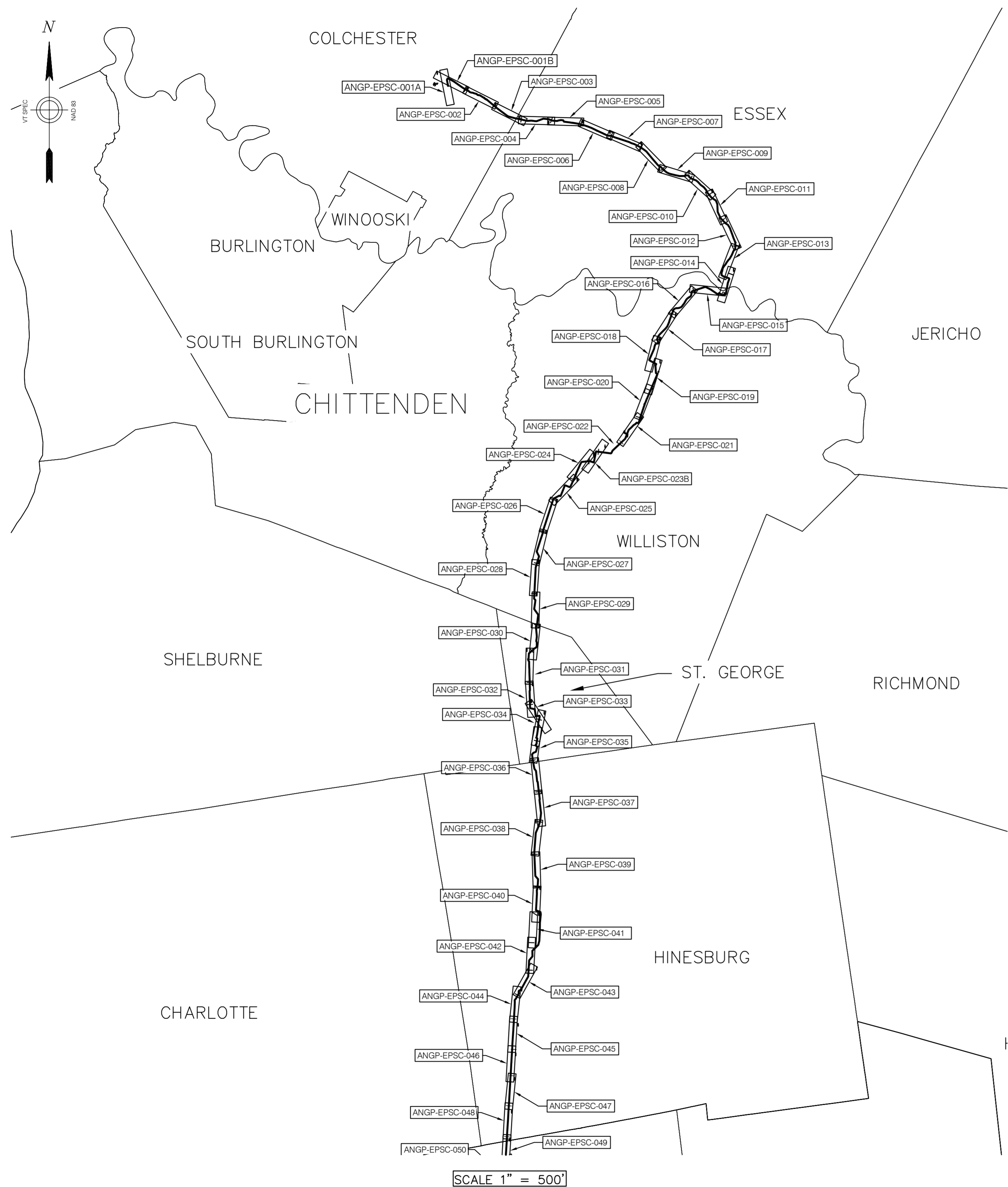
VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
COVER SHEET

LOC. CHITTENDEN & ADDISON COUNTIES

YEAR: 2016 W.O. SCALE: NOTED DWG. ANGP-T-G-001 REV. 4

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 795-6372 www.chiacompanies.com

CHITTENDEN AND ADDISON COUNTIES
VERMONT



DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION

		BID	CONSTRUCTION	
ENVIRONMENTAL	JLS	06/28/13	JLS 05/2016	
DRAFTING DESIGNER	GIL	06/28/13	GJM 05/2016	
DRAFTING SUPERVISOR	BZD	06/28/13	BCK 05/2016	
DESIGN ENGINEER	MDF	06/28/13	GEW 05/2016	
DESIGN MANAGER	SAB	06/28/13	JEO 05/2016	
	INITIALS	DATE	INITIALS	DATE

VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT INDEX SHEET			
LOC.	CHITTENDEN & ADDISON COUNTIES	YEAR: 2016	W.O.
SCALE:	1"=500'	DWG.	ANGP-T-G-002
REV.	0		

Vermont Gas
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 795-0372 • www.chacompanies.com

CIA
CHITTENDEN & ADDISON

VHB Vanasse Hangen Brustlin, Inc.

CHITTENDEN AND ADDISON COUNTIES

VERMONT

QUANTITIES

MATERIAL QUANTITIES (FT)

Table with columns for material types (PIPE, COATING), quantities (1, 2, A, B, C), and stationing. Includes Vermont Gas logo and a list of material specifications.

SHEET NUMBERS

NOTE: STATIONING ON THE PIPE ALIGNMENT UTILIZES STATION EQUATIONS IN SEVERAL LOCATIONS...

LEGEND: Includes symbols for proposed gas line, telephone line, traffic sign, and various infrastructure elements like stone walls, brush lines, and manholes.

ABBREVIATIONS

Table of abbreviations including ELFC, EXIST. (OR EX.), FEMA, FOMK, FB, GG, GMK, GMP, GSO, GRAN., GC, GRV, GDWY, GRL, HDPE, HDD, HMA, HOR, HSE, HYD., I., IPL, IPX, LT, L, LBS, L.P., L.F., MH, MLV, M.P., MHD, MSE, MPOST, MWELL, NAD, NTS, N/F, ODWY, OTFC, PAVT., PED, PDWY, P.C., P.C.C., PGL, P.I., P.(AS), P/L, P, P.WY, P.R.C., P.C., PLA, P.T.

LINE LIST: Includes symbols for test lead, water surface indicator, permanent easement, temporary workspace, FEMA BLSF zone, centerline of stream, temporary stream impact, 50' wetland buffer, temporary wetland impact, temporary wetland buffer impact, wetland area, proposed erosion and sediment controls, wetland flag, and AS-BUILT 12" transmission line.

ABBREVIATIONS

Table of abbreviations including EXIST., FEMA, FOMK, FB, GG, GMK, GMP, GSO, GRAN., GC, GRV, GDWY, GRL, HDPE, HDD, HMA, HOR, HSE, HYD., I., IPL, IPX, LT, L, LBS, L.P., L.F., MH, MLV, M.P., MHD, MSE, MPOST, MWELL, NAD, NTS, N/F, ODWY, OTFC, PAVT., PED, PDWY, P.C., P.C.C., PGL, P.I., P.(AS), P/L, P, P.WY, P.R.C., P.C., PLA, P.T., PCCSP, POLYMER COATED CORRUGATED STEEL PIPE, PROPOSED, RADIUS OF CURVATURE/RIGHT, RECORD, RCP, ROAD, RECORD LOCATION, REMOVE, RETAIN, RET. WALL, REMODEL, RIGHT, R.O.W., R/W, RIGHT-OF-WAY, RAILROAD, REMOVE AND RESET, REMOVE AND STACK, STONE BOUND, SEWER MANHOLE, SEWER LINE - MARKED, SIDEWALK, STREET, STATION, SOLID WHITE EDGE LINE, SOLID WHITE LANE LINE, SINGLE YELLOW CENTERLINE, SINGLE YELLOW LANE LINE, STONE HEADWALL, STOP LINE, TANGENT/TRUCK PERCENTAGE, TANGENT DISTANCE OF CURVE, TEMPORARY, TELEPHONE MANHOLE, TELEPHONE LINE - MARKED, TELEPHONE PEDESTAL, TEST LEAD, TOWER, TRAVELED WAY, TRAFFIC SIGNAL POLE, TOP OF WALL, TYPICAL, UTILITY COVER, UTILITY POLE, VERMONT STATE PLANE COORDINATE, VERMONT ELECTRIC COOPERATIVE, VERMONT ELECTRIC POWER COMPANY, VERTICAL, WATER LINE - MARKED, WATER METER/WATER MAIN, WATER SHUT OFF, WATER VALVE, WIRE FENCE, WOOD FENCE, WOOD POST, CROSSING.

CONSTRUCTION NOTES

- 1. PROPOSED PIPE IS 12.75" O.D. ITS WALL THICKNESS AND PROTECTIVE COATINGS VARY DEPENDING ON CLASS DETERMINATION AND SITE CONDITIONS.
2. AREAS WHERE THE PIPE IS INSTALLED IN ROCK TRENCH SHALL REQUIRE THE EPOXY POLYETHYLENE 10/40 COATED PIPE TO BE WRAPPED WITH TUFF NUFF ROCK SHIELD. CONTRACTOR TO IDENTIFY AND DOCUMENT THESE AREAS DURING INSTALLATION.
3. ALL CONSTRUCTION MUST CONFORM TO FEDERAL SPECIFICATIONS, PART 192 IN TITLE 49 GFR AND APPLICABLE, STATE AND LOCAL REGULATIONS.
4. ALL CONSTRUCTION SIGNING, DRUMS, BARRICADES AND OTHER DEVICES SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) INCLUDING ALL REVISIONS AND ADDENDA.
5. ALL VEHICLES ARE TO BE HIGHLY VISIBLE USING ROTATING BEACONS AND BE MARKED BY USE OF TRAFFIC CONES.
6. VERMONT GAS SYSTEMS SHALL NOTIFY EACH ABUTTER AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY OBSTRUCTION OF ACCESS.
7. CONTRACTOR SHALL MAINTAIN 1-FOOT MINIMUM CLEARANCE BETWEEN PROPOSED PIPELINES AND OTHER UTILITIES.
8. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING RIGHT OF WAY FENCE AS NECESSARY.
9. CONTRACTOR SHALL SUPPLY TEMPORARY ROAD SIGNS AS NECESSARY.
10. ALL TRENCH EXCAVATION PROTECTION SYSTEMS SHALL BE IN COMPLIANCE WITH OSHA SPECIFICATIONS.
11. CONTRACTOR MUST CONFIRM WITH OWNER AND ENGINEER THAT ALL PERMITS AND RIGHTS OF WAY HAVE BEEN OBTAINED, REVIEWED, AND UNDERSTOOD BEFORE CONSTRUCTING IN ANY AREA.
12. THE PIPE COATING TYPE, LOCATION AND LENGTH IDENTIFIED ON THE DRAWINGS IS TO BE VERIFIED PRIOR TO CONSTRUCTION BASED ON ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE PIPE COATING TYPE, LOCATION AND LENGTH AS DETERMINED BY THE CONSTRUCTION MANAGER BASED ON ACTUAL CONDITIONS.

GENERAL NOTES

- 1. TOPOGRAPHICAL DETAIL SHOWN HEREON IS THE RESULT OF SURVEY CONDUCTED BY CHA IN THE SUMMER AND FALL OF 2012 AND THE COMPILATION OF EXISTING TOPOGRAPHIC DATA PROVIDED BY THE VERMONT AGENCY OF TRANSPORTATION (VTTRANS) AND THE VERMONT TRANSMISSION COMPANY (VELCO).
2. PROPERTY LINES SHOWN HEREON ARE BASED ON TAX MAP AND DO NOT REPRESENT A PROPERTY LINE RETRACEMENT SURVEY EFFORT.
3. LOCATION OF ANY IDENTIFIED UNDERGROUND UTILITIES IS APPROXIMATE ONLY, AND IS NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATION, ETC. CONTRACTOR MUST NOTIFY DIG-SAFE VERMONT AT 811 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.
4. SURVEY WAS CONDUCTED IN VERMONT ZONE, NAD83 HORIZONTAL COORDINATE SYSTEM. ELEVATIONS ARE BASED ON NAVD 88 AND REFERENCED TO TEMPORARY BENCHMARKS AS SHOWN ON THE PLANS.
5. ENVIRONMENTAL CONDITIONS INFORMATION SHOWN IS THE RESULT OF SURVEY CONDUCTED BY VHB IN 2013 AND 2014.
6. THE LOCUS LIES IN VARIOUS FIRM ZONES, DESCRIBED ON THE FOLLOWING COMMUNITY PANEL NUMBERS: 5007C0143 D, 5007C0144 D, 5007C0163 D, 5007C0164 D, 5007C0277 D, 5007C0281 D, 5007C0279 D, 5007C0290 D, 5007C0005 A, 5001670010 A, 5000090002 A, 5000090004 A, AND 5000080003 A
7. THE PURPOSE OF THIS PLAN SET IS TO IDENTIFY TO THE APPROPRIATE PERMITTING AGENCIES THE PROPOSED LOCATION FOR A NATURAL GAS PIPELINE AND ITS LOCATION RELATIVE TO TOPOGRAPHICAL FEATURES, EXISTING, AND PROPOSED UTILITIES.
8. CONTRACTOR MUST CONFIRM WITH OWNER AND ENGINEER THAT ALL PERMITS AND R.O.W. HAVE BEEN OBTAINED BEFORE CONSTRUCTING IN ANY AREA.

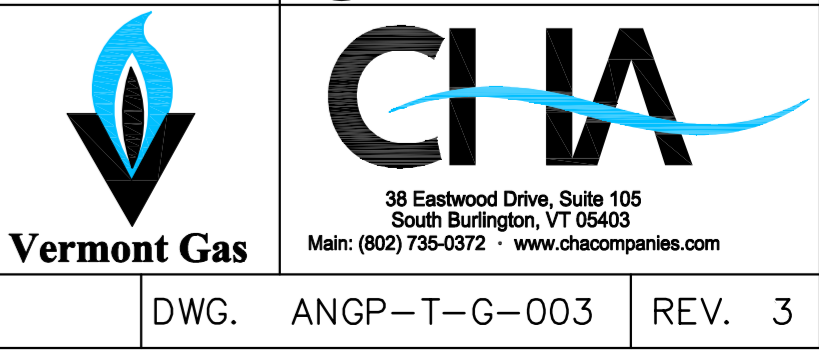
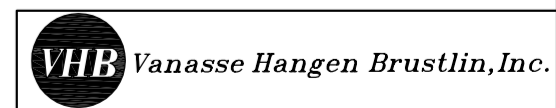
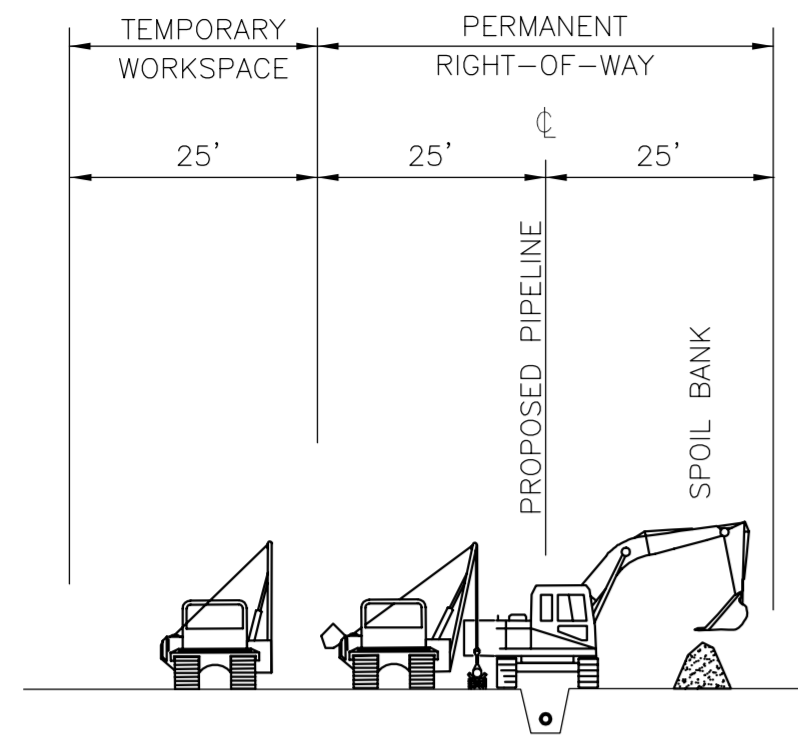


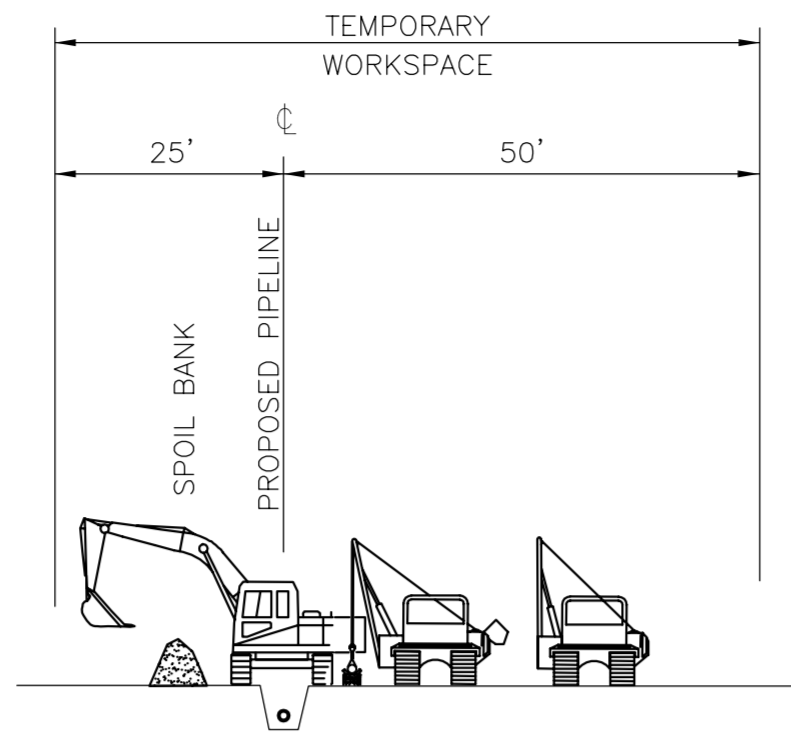
Table with columns for DWG. NO., REFERENCE DWG., REV, DSN, CK, DESCRIPTION, ENVIRONMENTAL, DRAFTING DESIGNER, DRAFTING SUPERVISOR, DESIGN ENGINEER, DESIGN MANAGER, BID, DATE, CONSTRUCTION, INITIALS, DATE, YEAR, W.O., SCALE, DWG. NO., REV.



CONSTRUCTION TYPE 1A
NOT TO SCALE

NOTE:

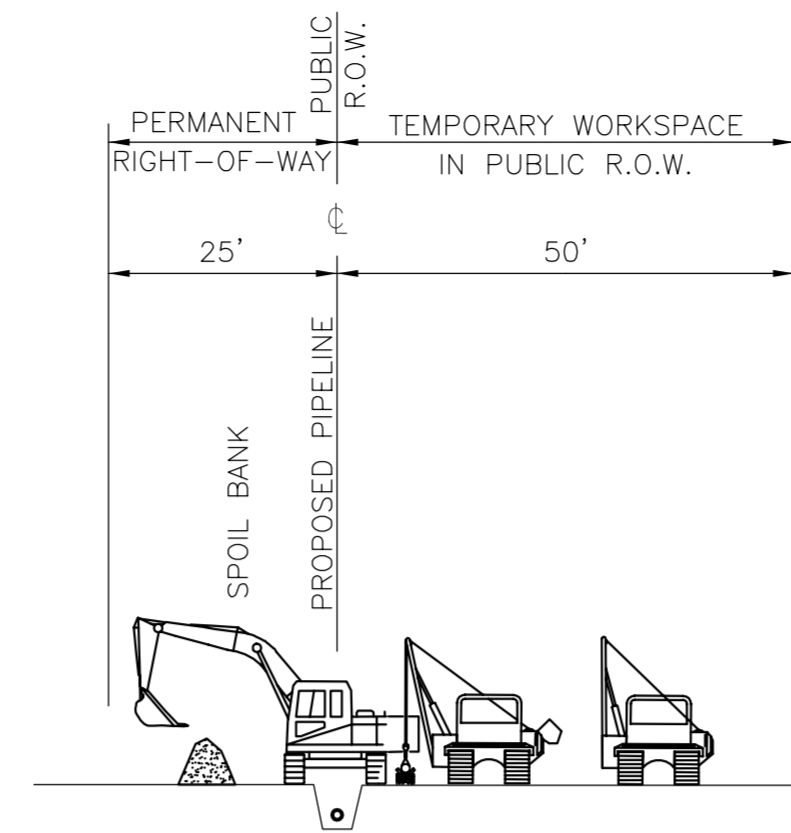
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1B
NOT TO SCALE

NOTE:

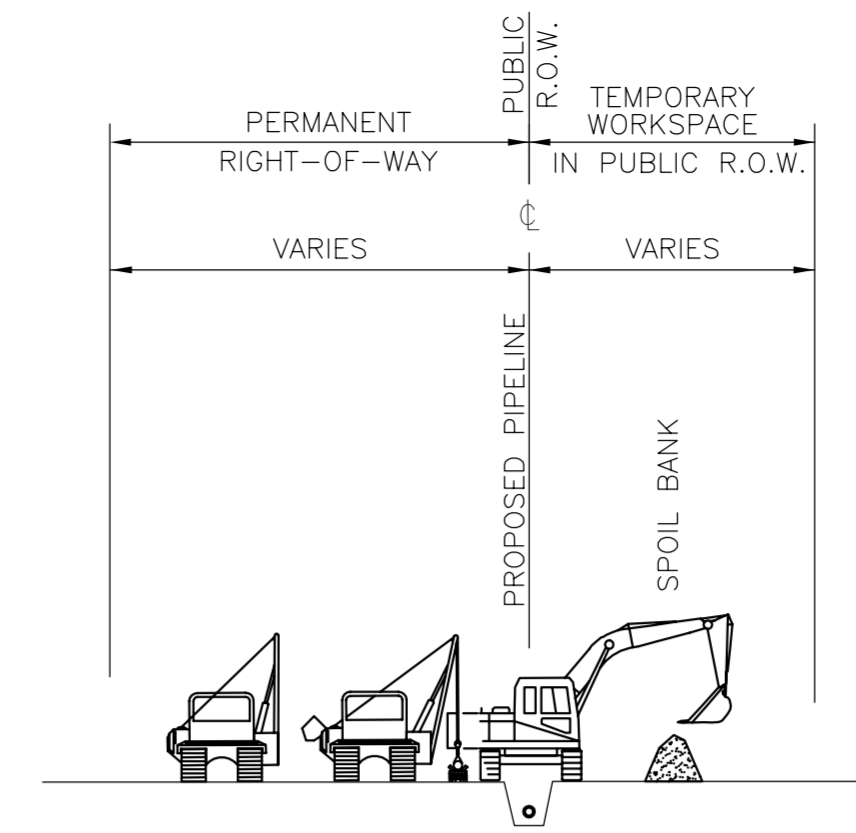
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1C
NOT TO SCALE

NOTE:

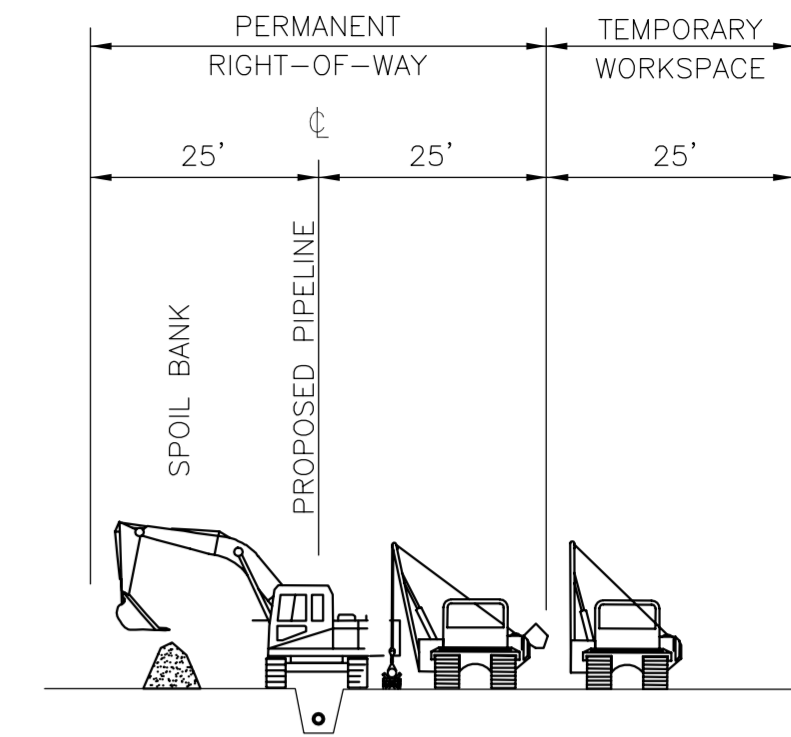
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1D
NOT TO SCALE

NOTE:

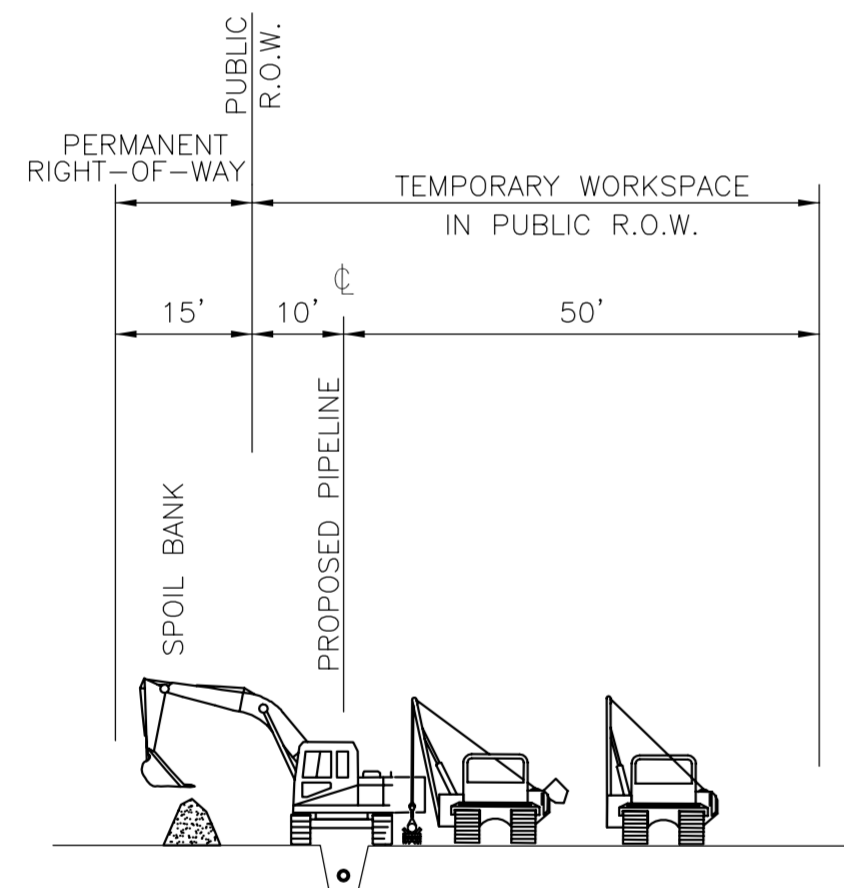
1. THIS CONFIGURATION IS FOR VARIABLE CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1E
NOT TO SCALE

NOTE:

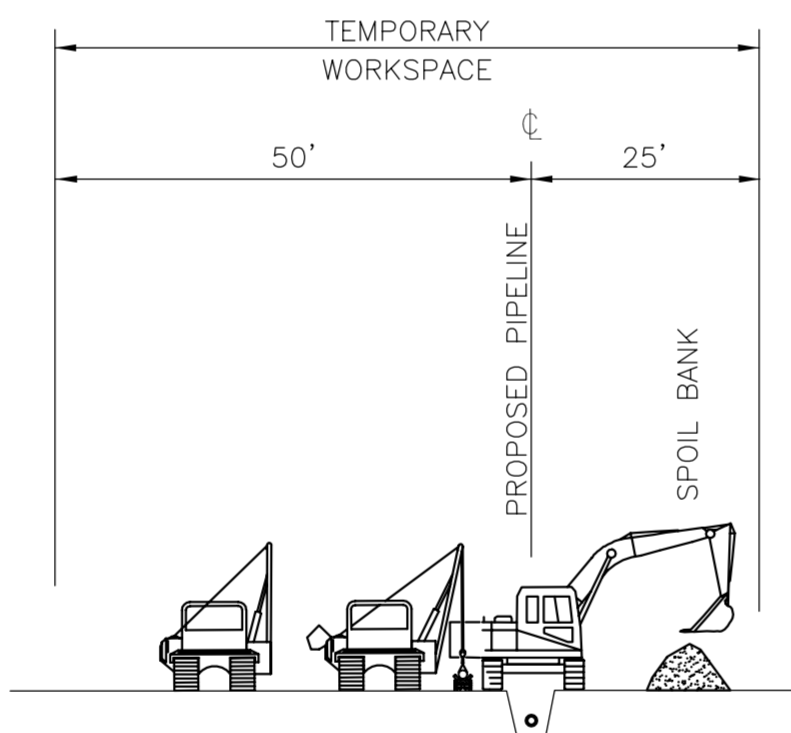
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1F
NOT TO SCALE

NOTE:

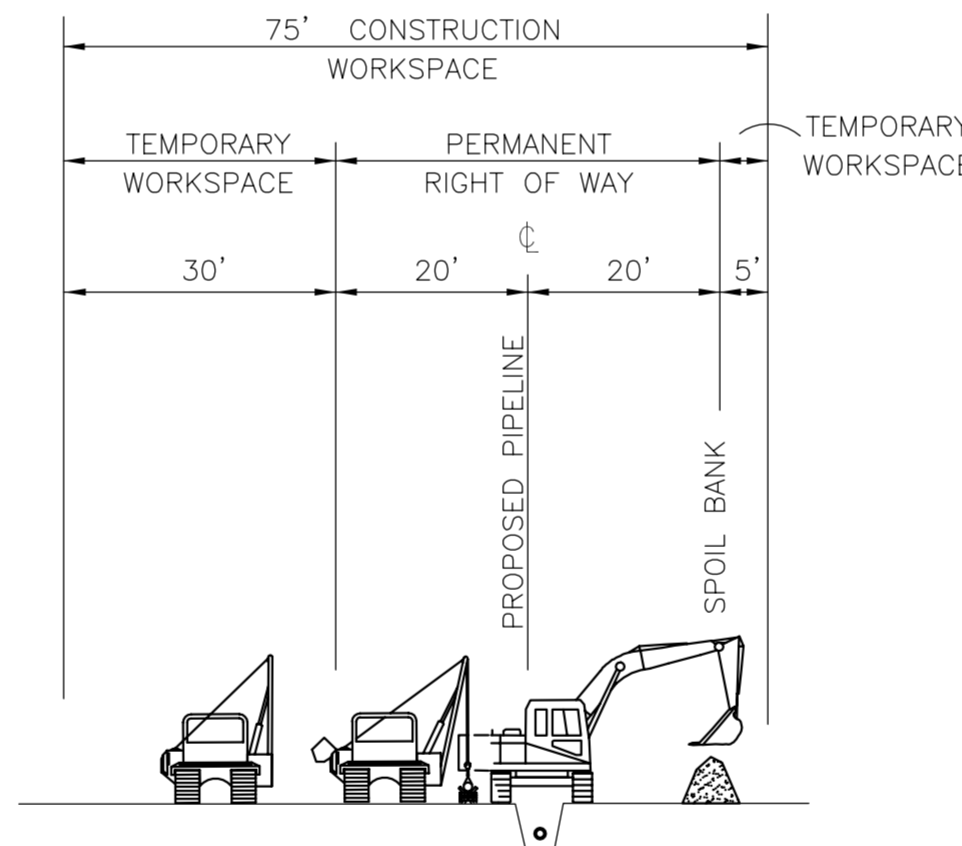
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1G
NOT TO SCALE

NOTE:

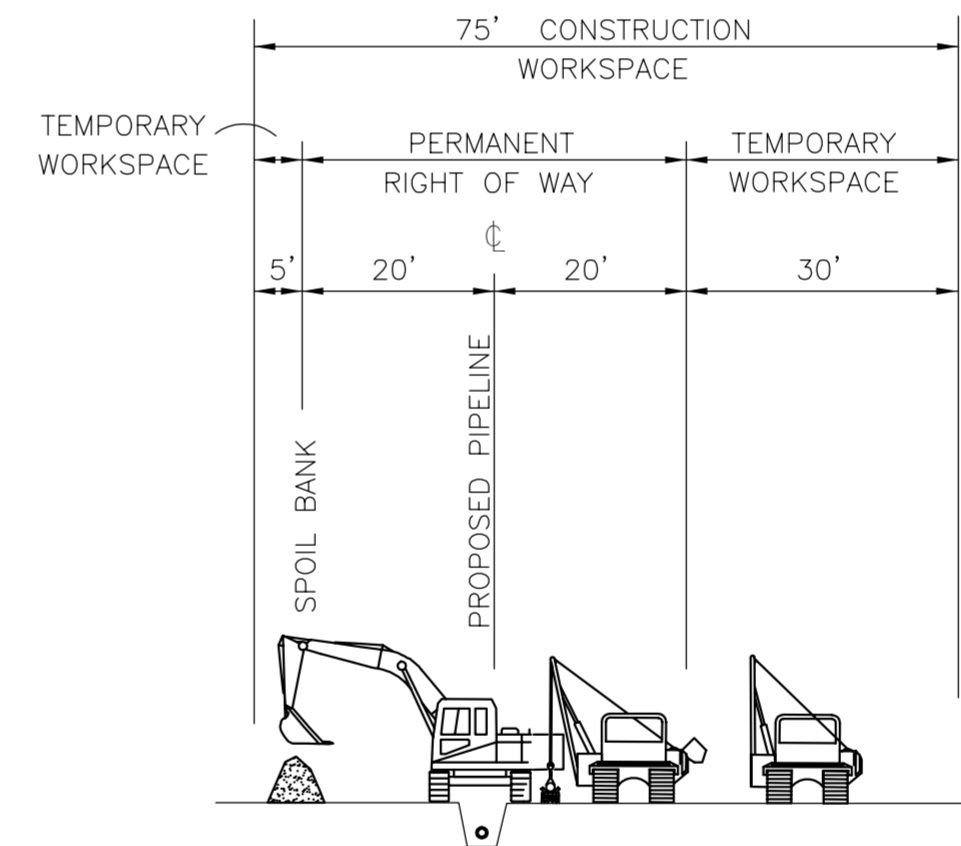
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1H
NOT TO SCALE

NOTE:

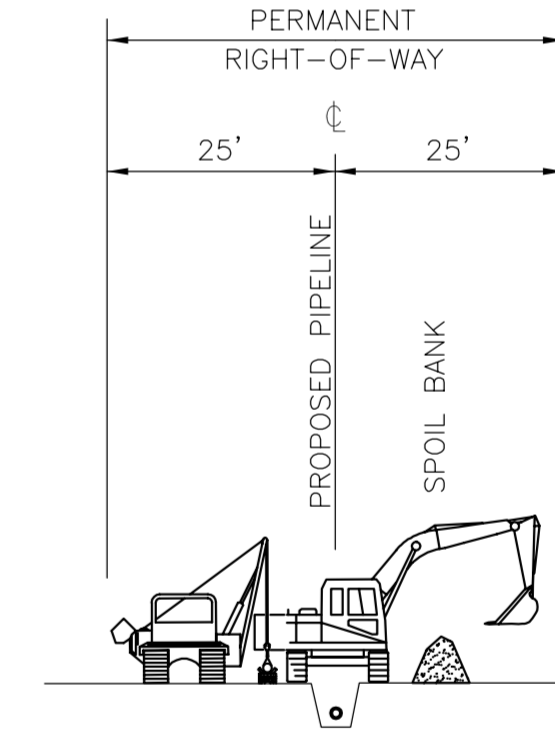
1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 1J
NOT TO SCALE

NOTE:

1. THIS CONFIGURATION IS FOR 75' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 2A
NOT TO SCALE

NOTE:

1. THIS CONFIGURATION IS FOR 50' CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



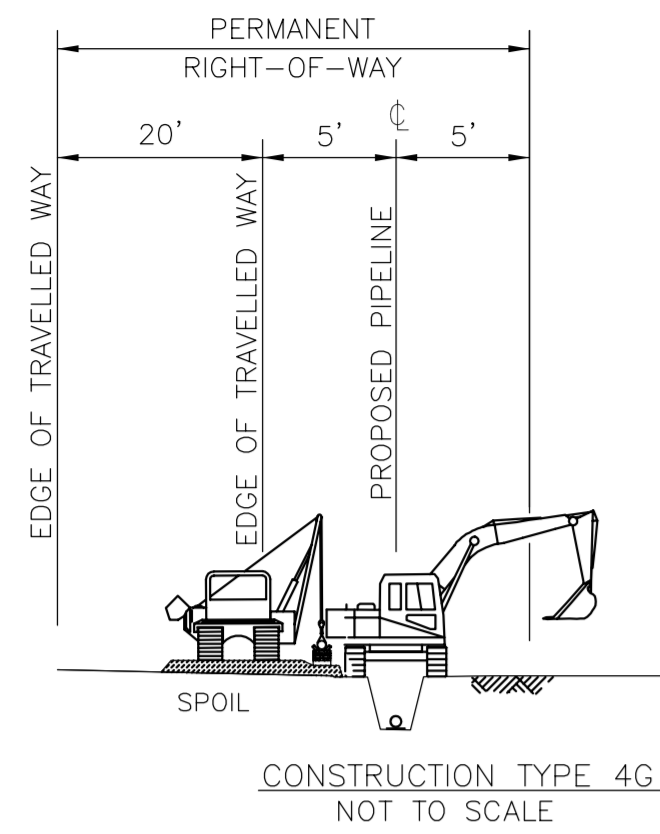
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: NOTED	DWG. ANGP-T-G-004	REV. 0
					ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016					
					DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016					
					DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016					
					DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016					
					DESIGN MANAGER	SAB	06/28/13	JEO	05/2016					

VHB Vanasse Hangen Brustlin, Inc.



CIA
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 795-0372 • www.ciacompanies.com

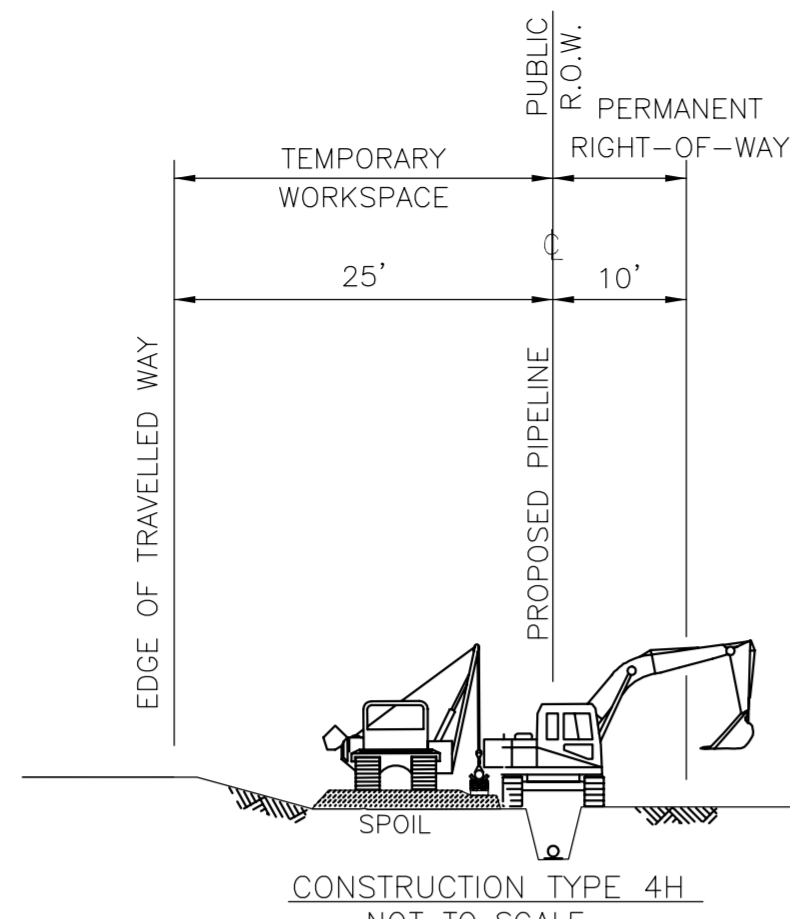
VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION CONFIGURATION DETAILS
LOC. CHITTENDEN & ADDISON COUNTIES



CONSTRUCTION TYPE 4G
NOT TO SCALE

NOTE:

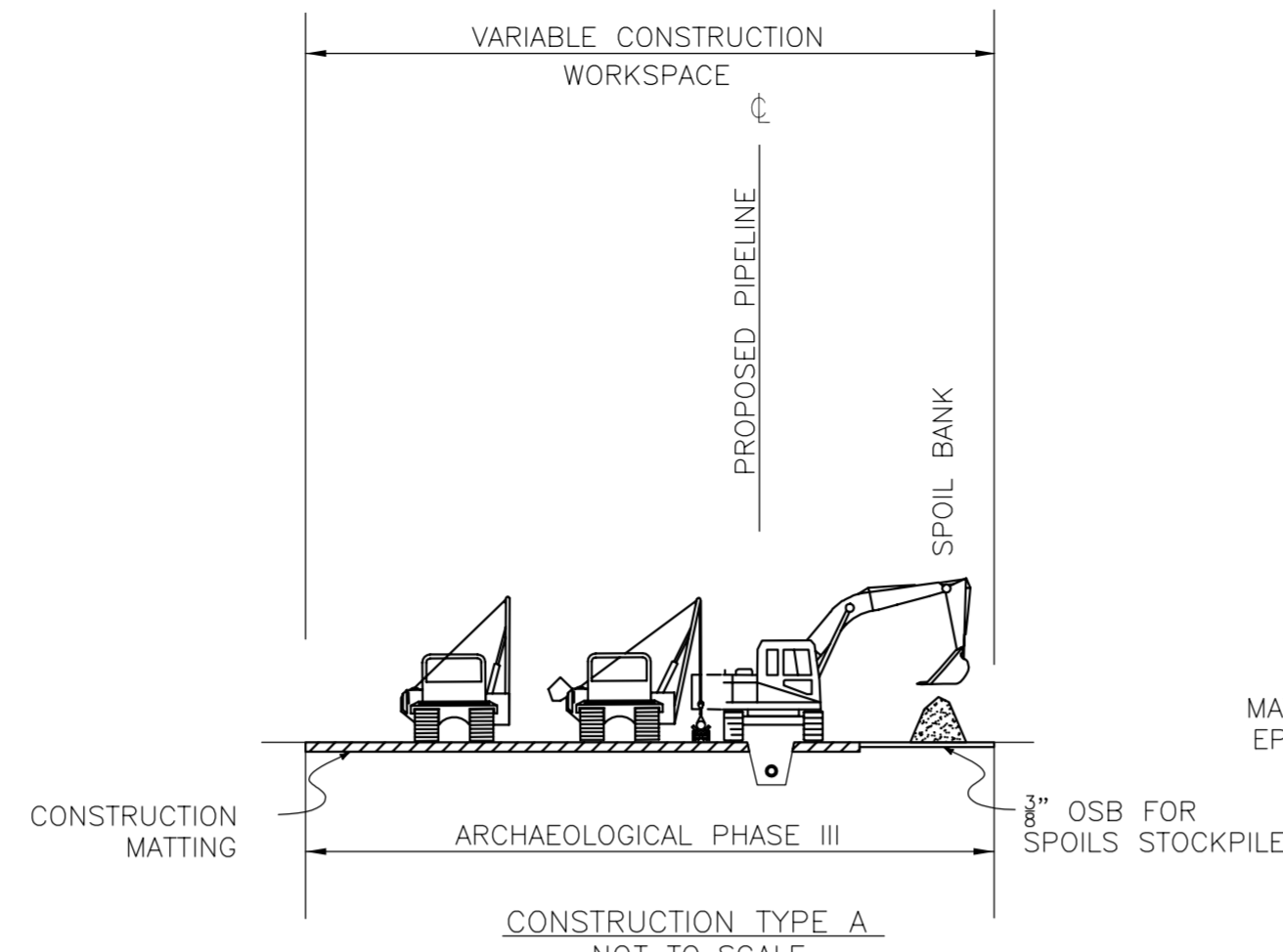
1. THIS CONFIGURATION IS FOR ROADSIDE CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 4H
NOT TO SCALE

NOTE:

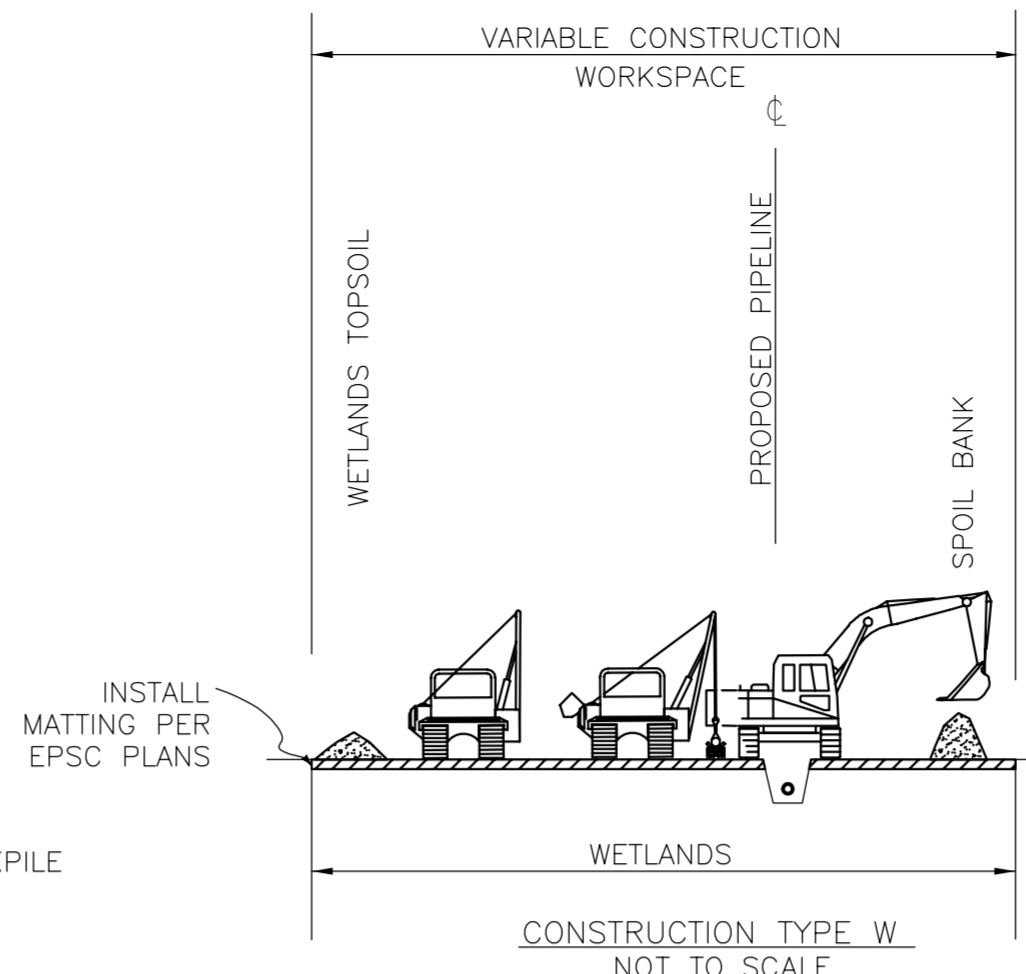
1. THIS CONFIGURATION IS FOR ROADSIDE CONSTRUCTION SPACE AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE A
NOT TO SCALE

NOTE:

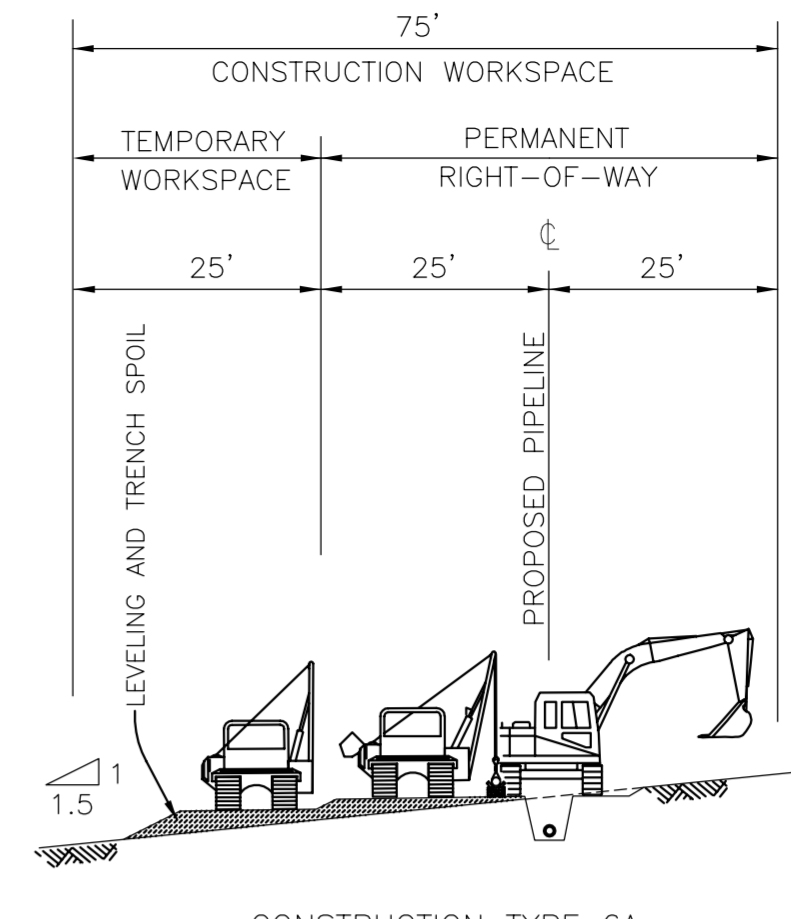
1. THIS CONFIGURATION IS FOR VARIABLE CONSTRUCTION SPACE IN "ARCHEOLOGICAL PHASE III" AREAS AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE. THE PHASE III AREAS ARE AS FOLLOWS: VT-AD-483, LOCUS 2 (8/14/2013), VT-CH-414 (8/14/2013), VT-AD-456, LOCUS 3, VT-AD-1559, VT-AD-138, LOCUS 2 (8/14/2013), VT-AD-87, LOCUS 2 (8/14/2013), VT-AD-446, VT-AD-793, VT-AD-808 LOCUS 1 AND 2, VT-CH-103, VT-AD-1623.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT & EPSC SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. SEE ALIGNMENT & EPSC SHEETS FOR LOCATIONS OF THIS CONSTRUCTION CONFIGURATION.
4. WHEN BACKFILLING, SOILS SHALL BE REPLACED IN ORDER THEY WERE EXCAVATED, WITH TOPSOIL AS UPPER LAYER FILL AND COMPACT SUBSOIL TO DEPTH OF ADJACENT NATIVE SUBSOIL/TOPSOIL INTERFACE. REPLACE TOPSOIL AS UPPER LAYER AND BLEND TO EXISTING GRADE OF UNDISTURBED SOILS. DISPOSE OF EXCESS SUBSOIL AT SUITABLE LOCATION AS APPROVED BY THE OSPC.
5. SEE EPSC PLAN "ADDITIONAL ENVIRONMENTAL NOTES" FOR ADDITIONAL INSTRUCTIONS RELATED TO CONSTRUCTION IN "ARCHEOLOGICAL PHASE III" AREAS, INCLUDING FINAL STABILIZATION NOTES.
6. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE W
NOT TO SCALE

NOTE:

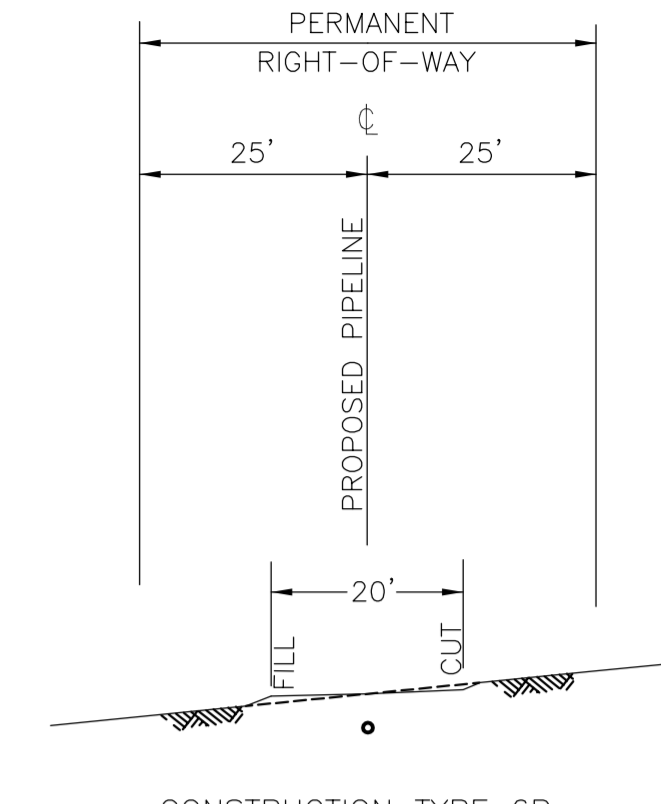
1. THIS CONFIGURATION IS FOR VARIABLE CONSTRUCTION SPACE IN WETLANDS AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT & EPSC SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. SEE ALIGNMENT & EPSC SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
4. WHEN BACK-PILING, SOILS SHALL BE REPLACED IN ORDER THEY WERE EXCAVATED, WITH TOPSOIL AS UPPER LAYER FILL AND COMPACT SUBSOIL TO DEPTH OF ADJACENT NATIVE SUBSOIL/TOPSOIL INTERFACE. REPLACE TOPSOIL AS UPPER LAYER AND BLEND TO EXISTING GRADE OF UNDISTURBED SOILS. DISPOSE OF EXCESS SUBSOIL AT SUITABLE LOCATION AS APPROVED BY THE OSPC.
5. SEE EPSC PLAN "ADDITIONAL ENVIRONMENTAL NOTES" FOR ADDITIONAL INSTRUCTIONS RELATED TO CONSTRUCTION IN WETLANDS, INCLUDING FINAL STABILIZATION NOTES.
6. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 6A
NOT TO SCALE

NOTE:

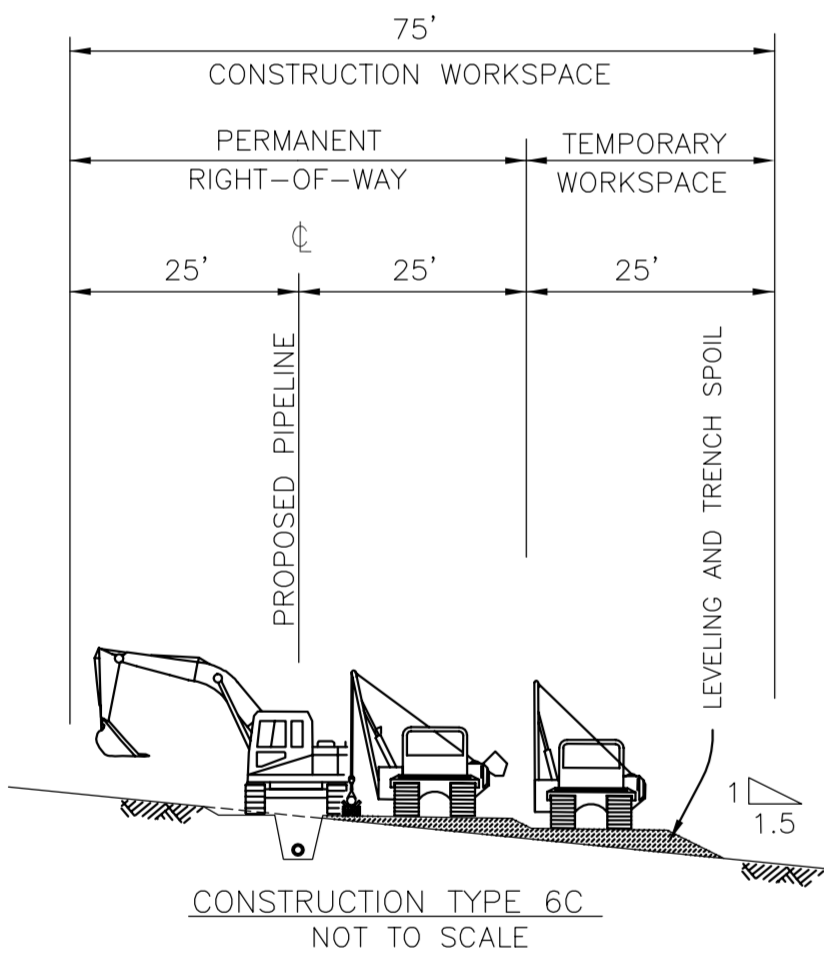
1. THIS CONFIGURATION IS FOR SIDE HILL SLOPE CONSTRUCTION AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 6B
NOT TO SCALE
POST CONSTRUCTION

NOTE:

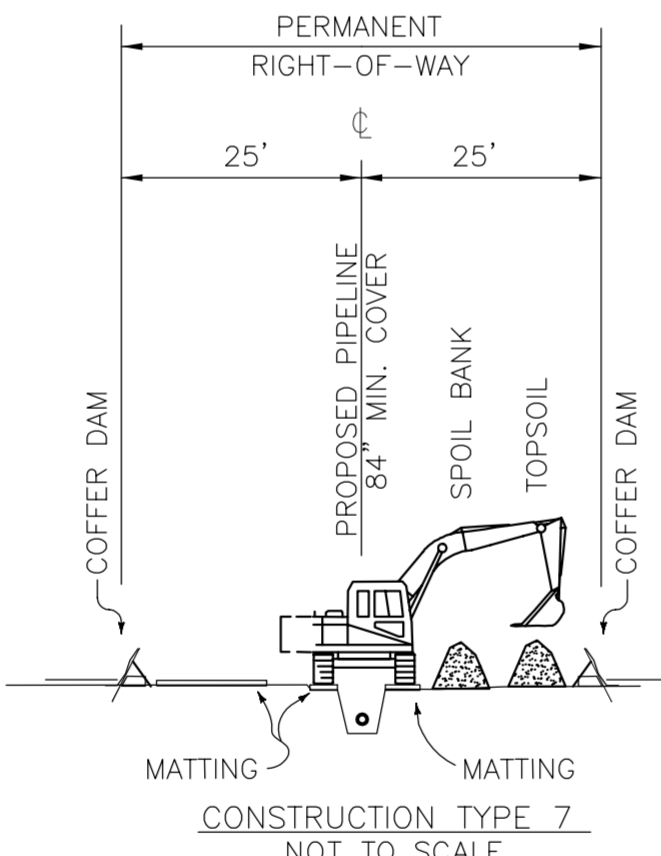
1. THIS CONFIGURATION IS FOR SIDE HILL SLOPE CONSTRUCTION AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 6C
NOT TO SCALE

NOTE:

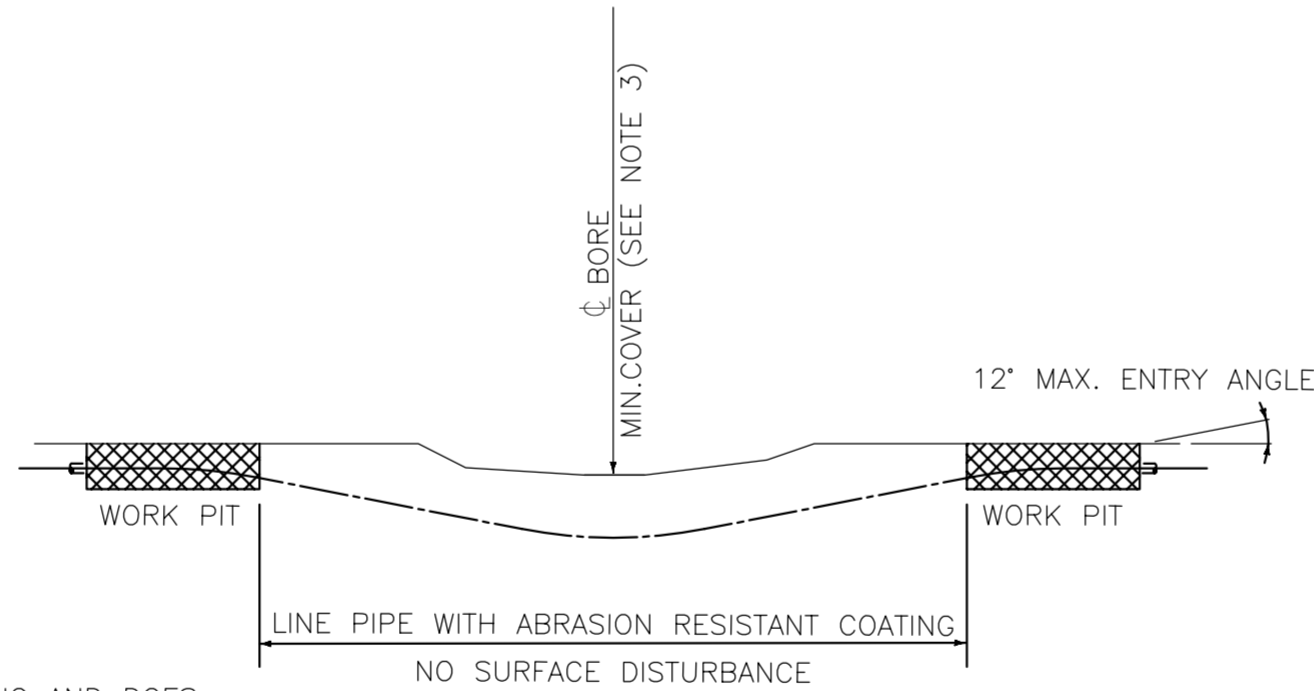
1. THIS CONFIGURATION IS FOR SIDE HILL SLOPE CONSTRUCTION AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
5. SEE DETAIL #7 ON ANGP-T-G-015 FOR PIPELINE MINIMUM COVER REQUIREMENTS.



CONSTRUCTION TYPE 7
NOT TO SCALE

NOTE:

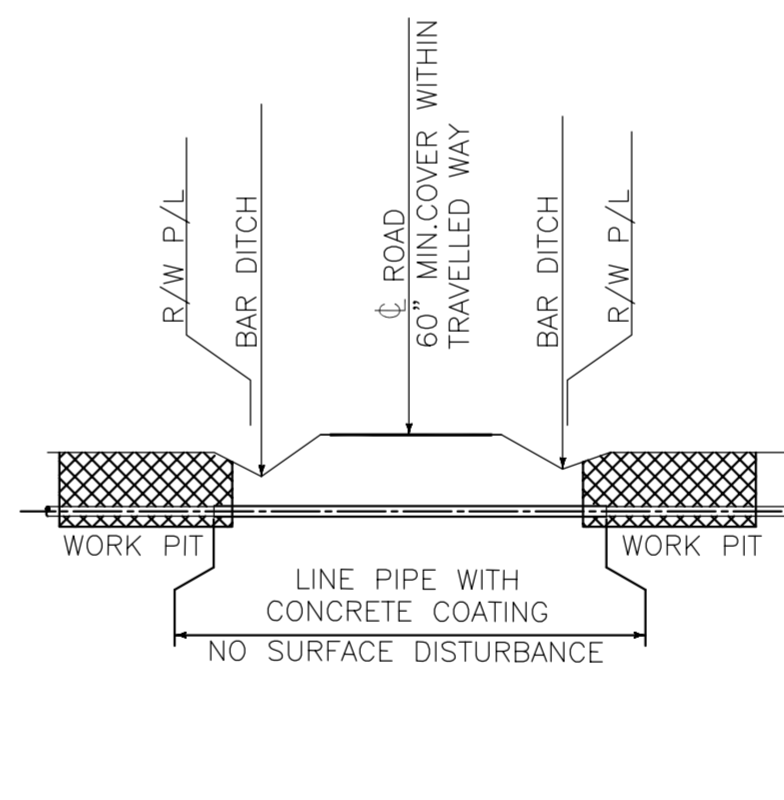
1. THIS CONFIGURATION IS FOR STREAM CROSSING AND DOES NOT DEPICT ADDITIONAL TEMP. WORKSPACE.
2. ADDITIONAL TEMP. WORKSPACE HAS BEEN TYPICALLY INCORPORATED ON THE ALIGNMENT SHEETS FOR AREAS SUCH AS ROAD, RIVER/STREAM/WATERBODY, AND ARCHEOLOGICAL SITE CROSSINGS WHERE HORIZONTAL DIRECTIONAL DRILL CONSTRUCTION HAS BEEN PROPOSED.
3. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS) IN THE SOIL TYPE BAND OF THE EPSC SHEETS, SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.
4. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.



CONSTRUCTION TYPE 8
NOT TO SCALE

NOTE:

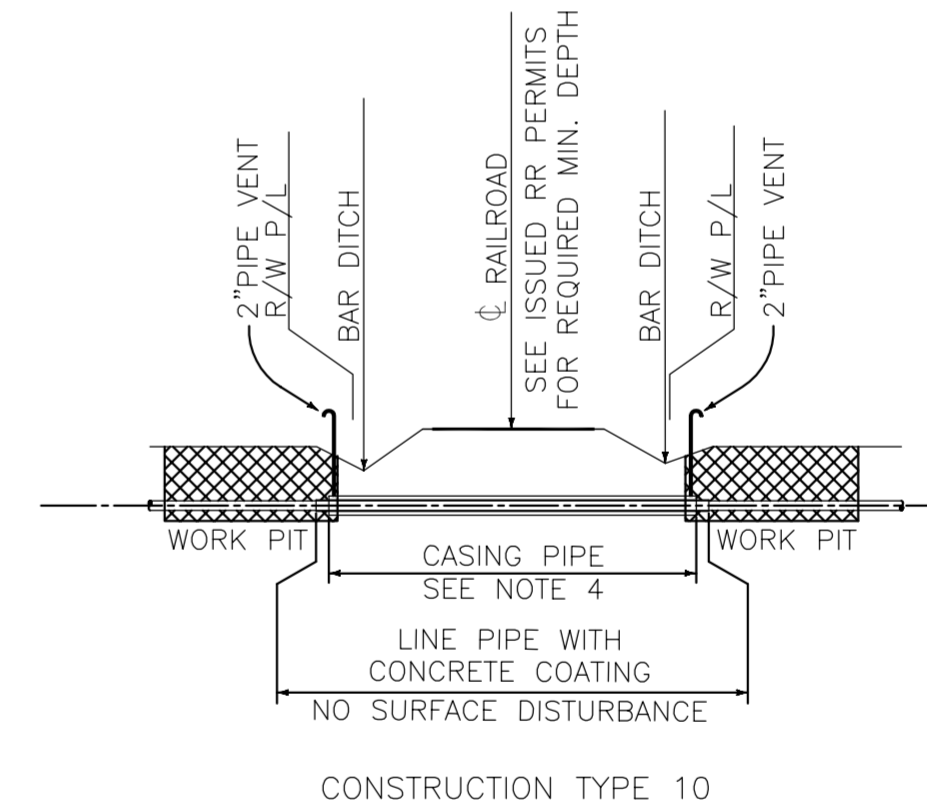
1. THIS CONFIGURATION IS FOR OPTIONAL STREAM OR ROAD CROSSING HORIZONTAL DIRECTIONAL DRILL.
2. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
3. SEE TABLE ON ANGP-T-G-020 FOR COVER REQUIREMENTS.



CONSTRUCTION TYPE 9
NOT TO SCALE

NOTE:

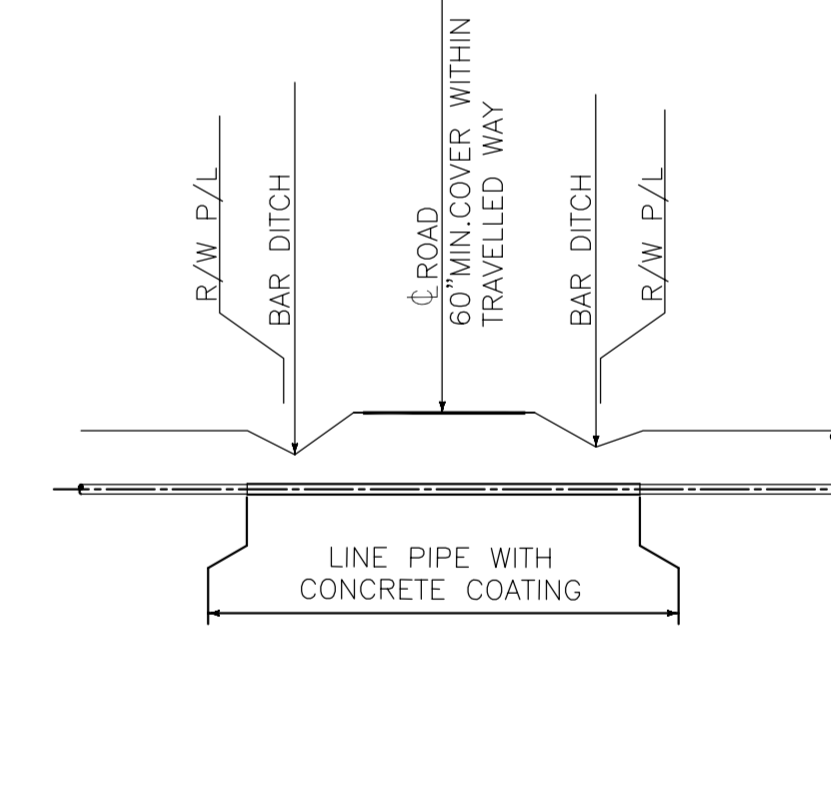
1. THIS CONFIGURATION IS FOR UNCASSED ROAD CROSSING CONSTRUCTION.
2. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION AND MATERIAL SPECIFICATIONS.
3. SEE SITE SPECIFIC SOIL BORING DETAILS FOR ADDITIONAL INFORMATION.
4. BORE HOLE SHALL NOT EXCEED THE PIPE DIAMETER BY MORE THAN ONE AND ONE HALF (1-1/2) INCHES.



CONSTRUCTION TYPE 10
NOT TO SCALE

NOTE:

1. THIS CONFIGURATION IS FOR CASSED ROAD AND RAILROAD CROSSING CONSTRUCTION.
2. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION AND MATERIAL SPECIFICATIONS.
3. SEE SITE SPECIFIC SOIL BORING DETAILS FOR ADDITIONAL INFORMATION.
4. ANNULUS FILLED WITH DIELECTRIC MATERIAL PER VT GAS SPECIFICATIONS FOR ABRASION RESISTANT COATED CARRYING PIPE ONLY. DIELECTRIC MATERIAL SHALL NOT FILL THE ANNULUS SPACE WHERE CONCRETE COATED CARRYING PIPE IS SPECIFIED.
5. THE BORE HOLE SHALL NOT EXCEED THE CASING DIAMETER BY MORE THAN ONE AND ONE HALF (1-1/2) INCHES.



CONSTRUCTION TYPE 11
NOT TO SCALE

NOTE:

1. THIS CONFIGURATION IS FOR OPEN CUT ROAD CROSSING CONSTRUCTION.
2. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION AND MATERIAL SPECIFICATIONS.
3. SEE SITE SPECIFIC SOIL BORING DETAILS FOR ADDITIONAL INFORMATION.
4. COMPACTION AND RESTORATION TO TOWN AND VT GAS SPECIFICATIONS.

NOTE:

1. CONSTRUCTION TYPE 5 NOT USED.

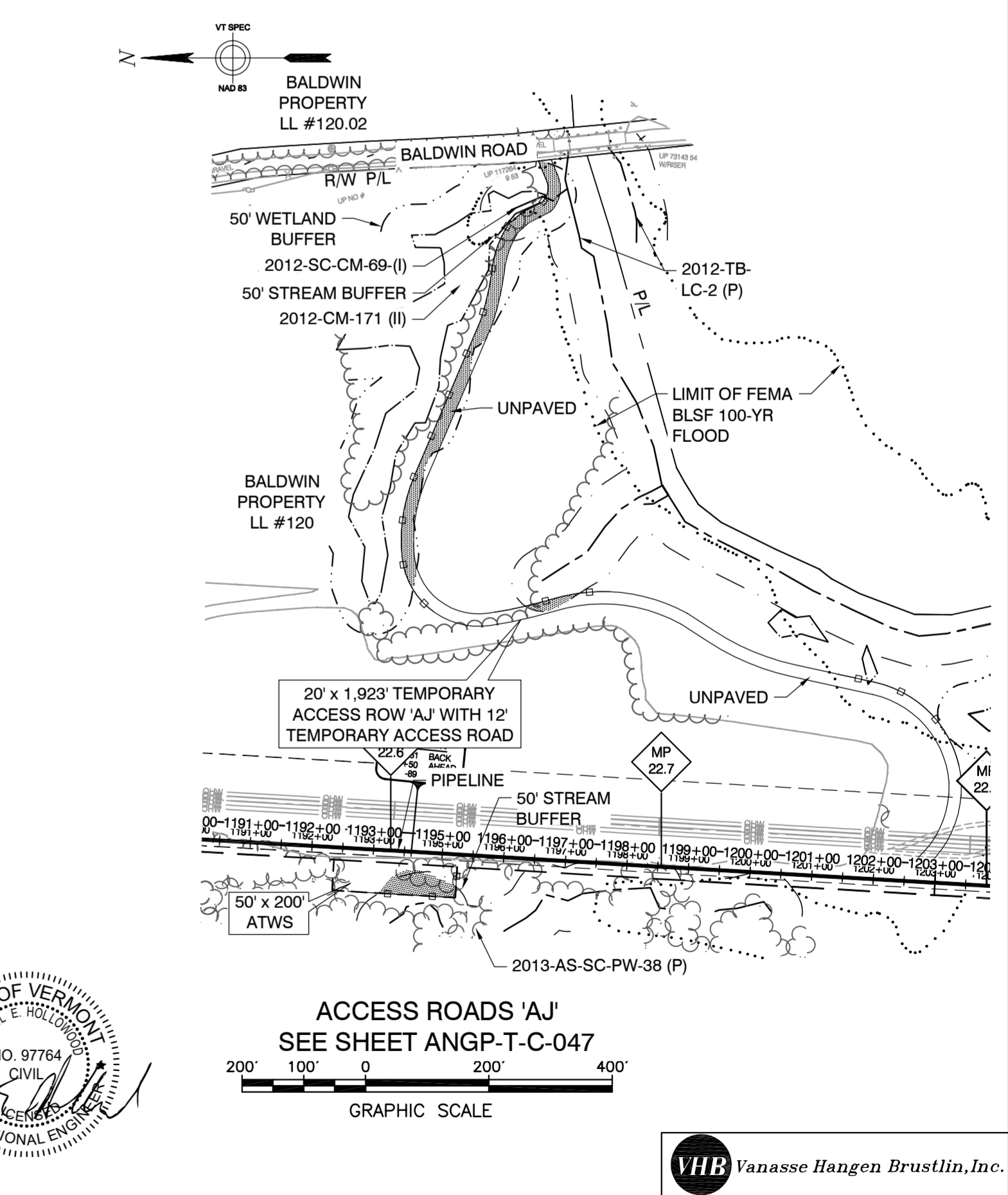
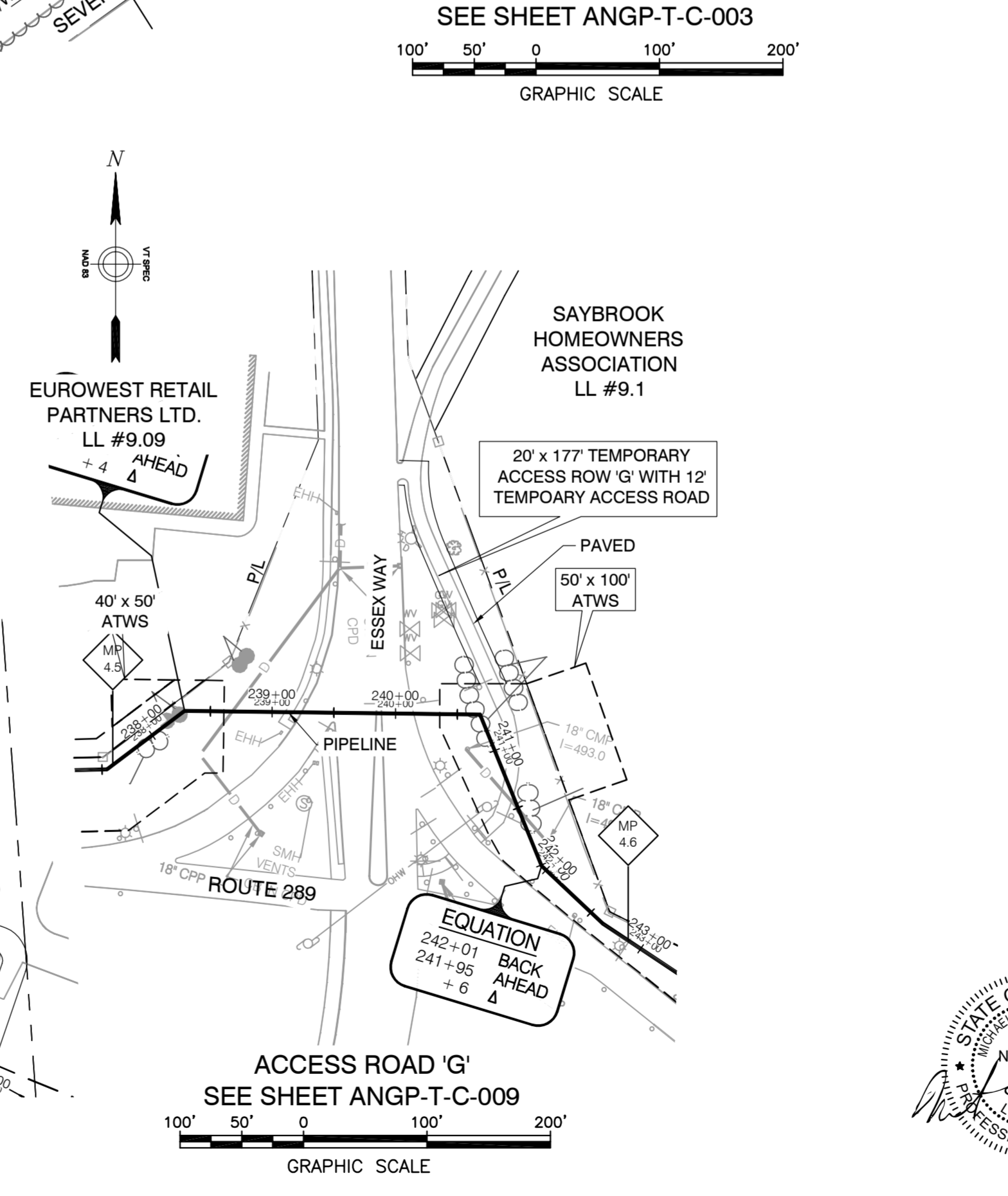
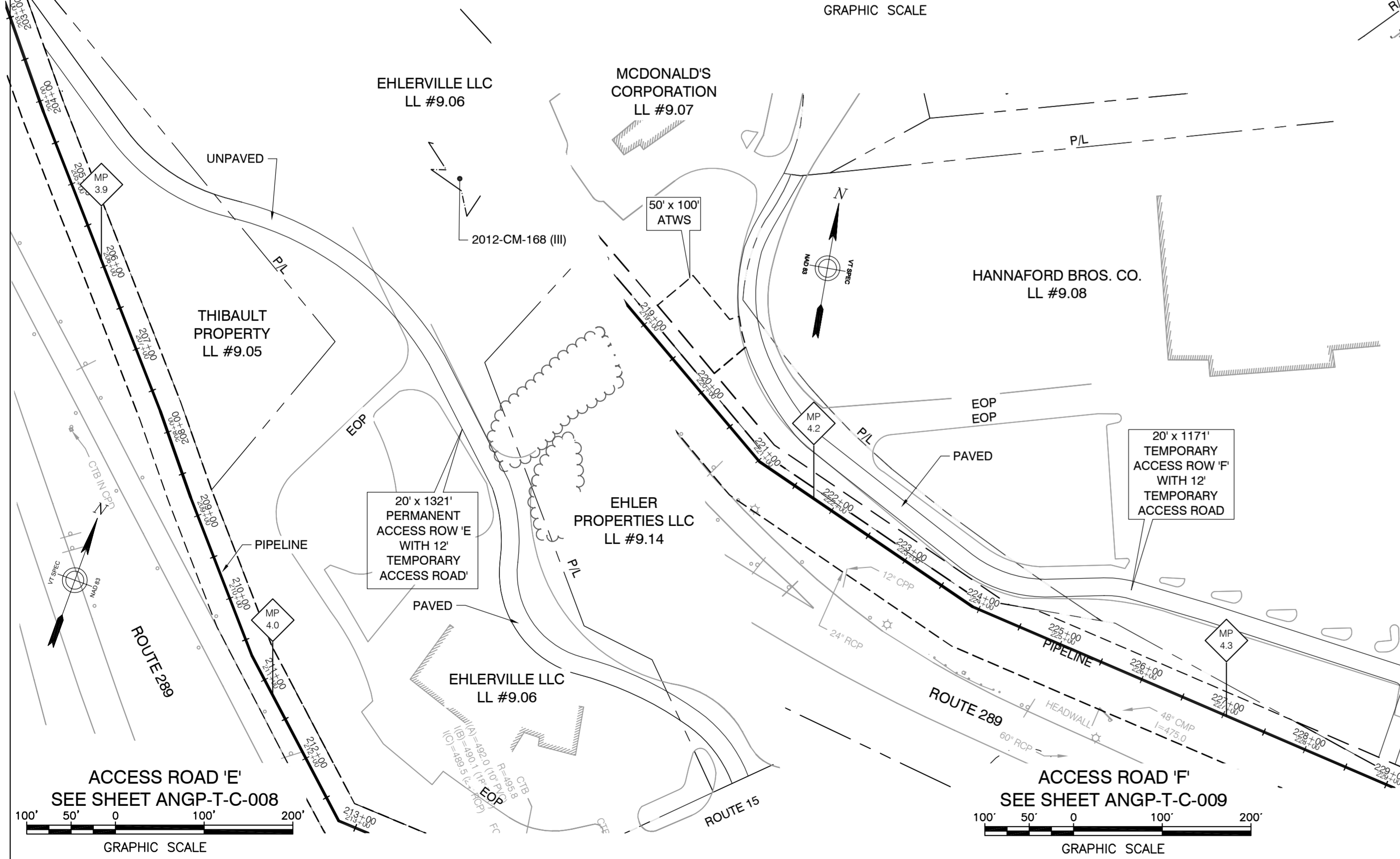
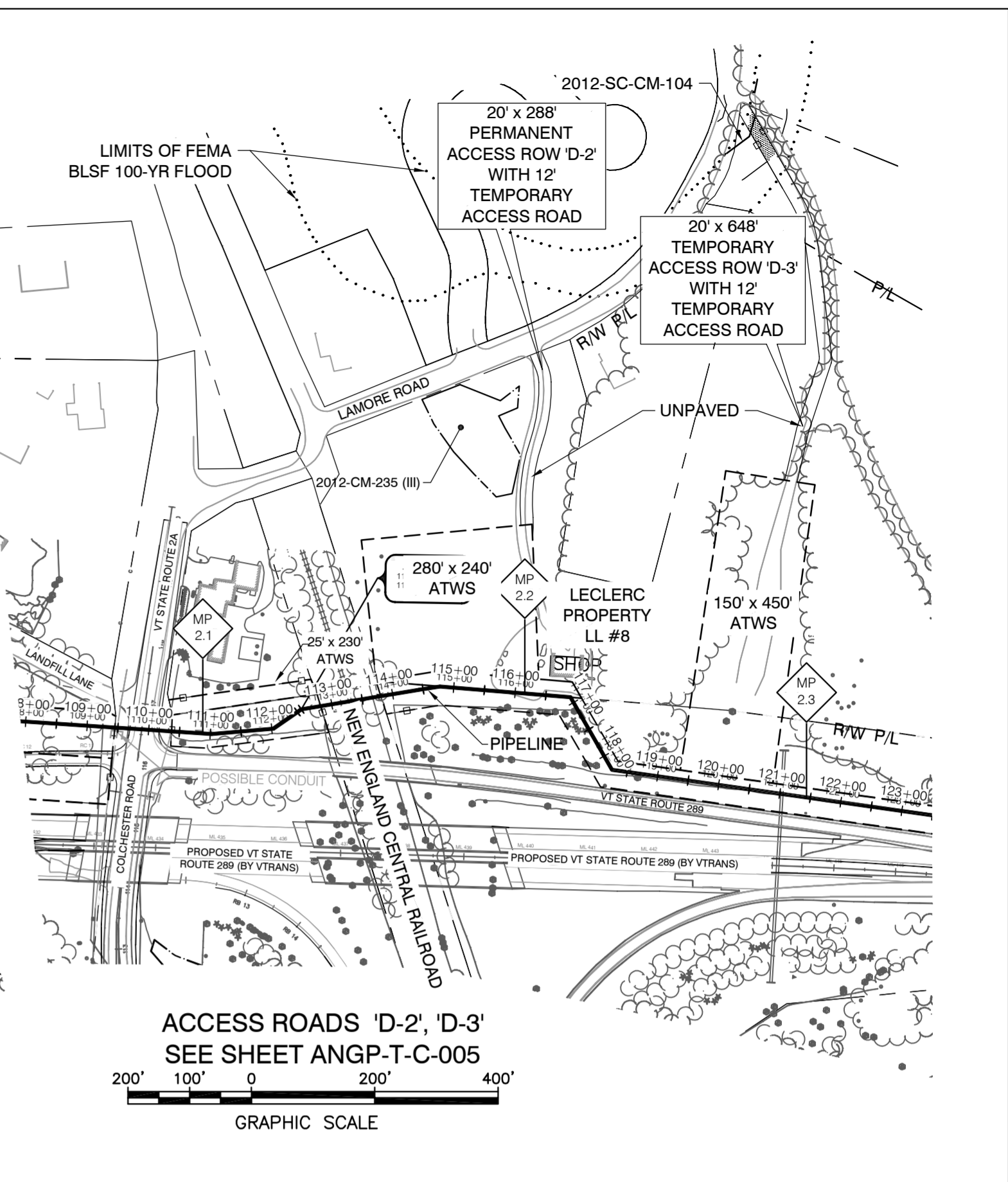
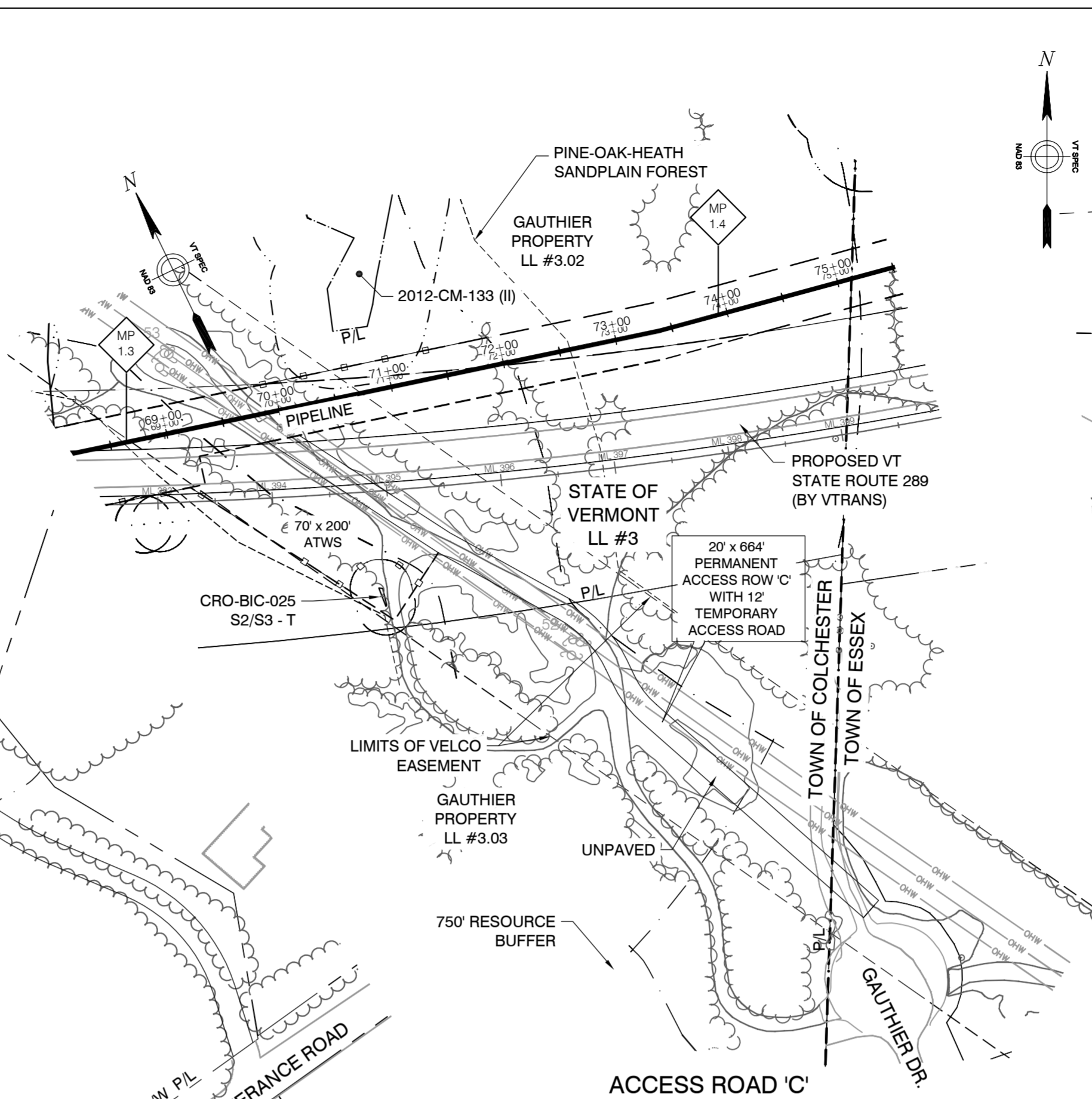
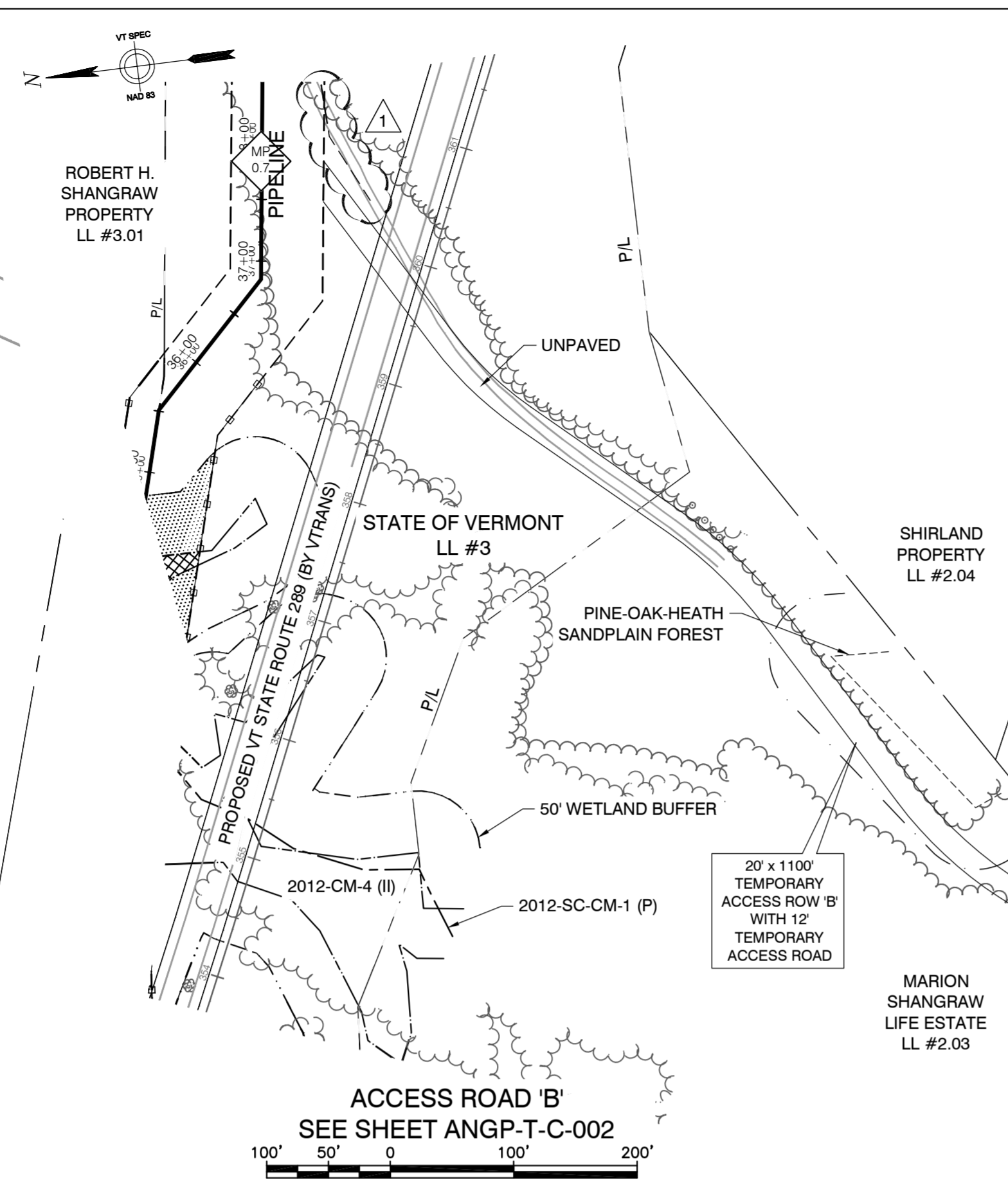
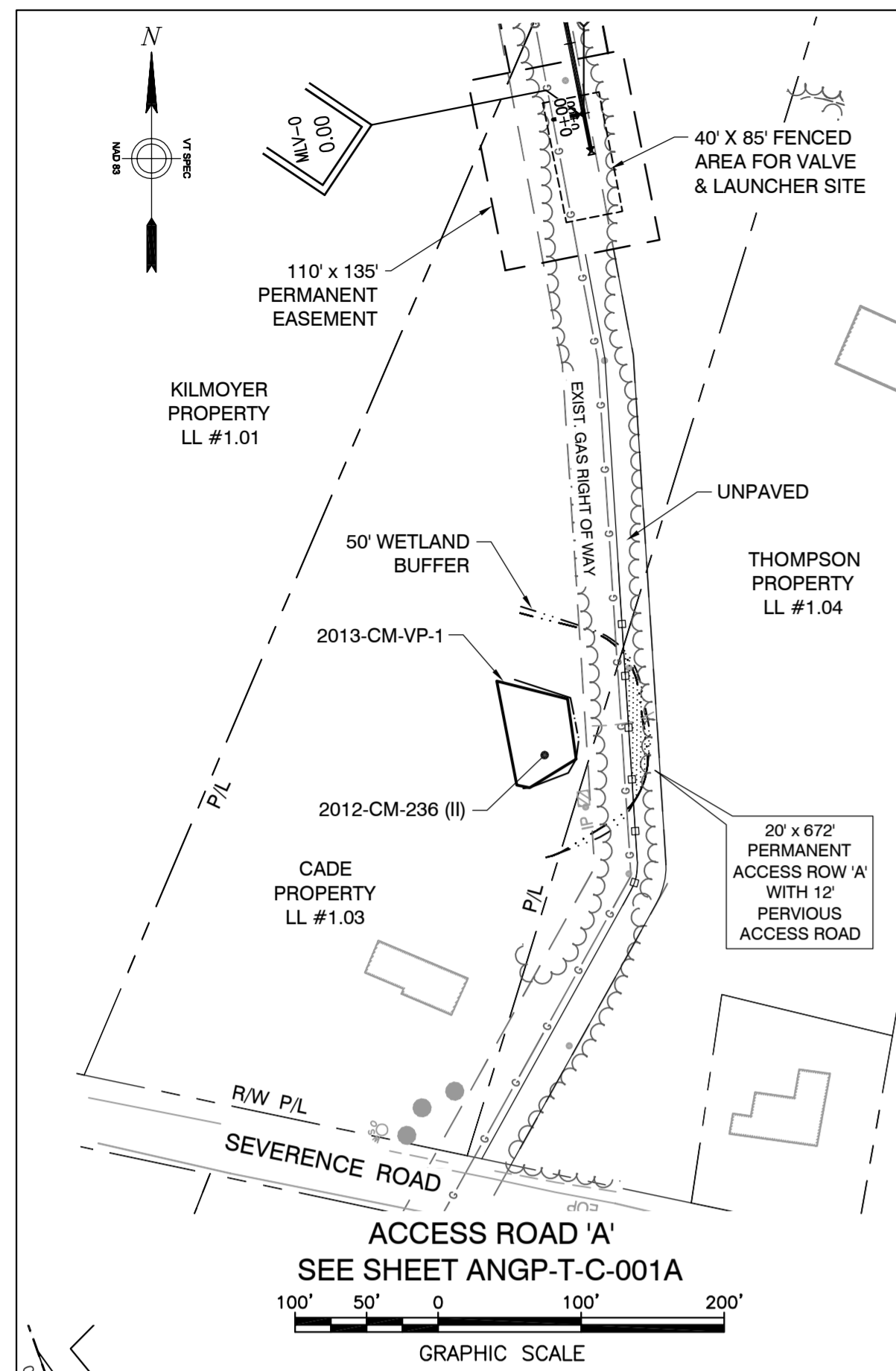


DWG. NO.	REFERENCE DWG.	1	BCK	TDB	ADDED ARCH. SITES (6/08/15)	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: NOTED	DWG. ANGP-T-G-006	REV. 1
		REV	DSN	CK											

VHB Vanasse Hangen Brustlin, Inc.



ENVIRONMENTAL		JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT CONSTRUCTION CONFIGURATION DETAILS	LOC. CHITTENDEN & ADDISON COUNTIES
DRAFTING DESIGNER		GIL	06/28/13	GJM	05/2016		
DRAFTING SUPERVISOR		BZD	06/28/13	BCK	05/2016		
DESIGN ENGINEER		MDF	06/28/13	GEW	05/2016		
DESIGN MANAGER		SAB	06/28/13	JEO	05/2016		

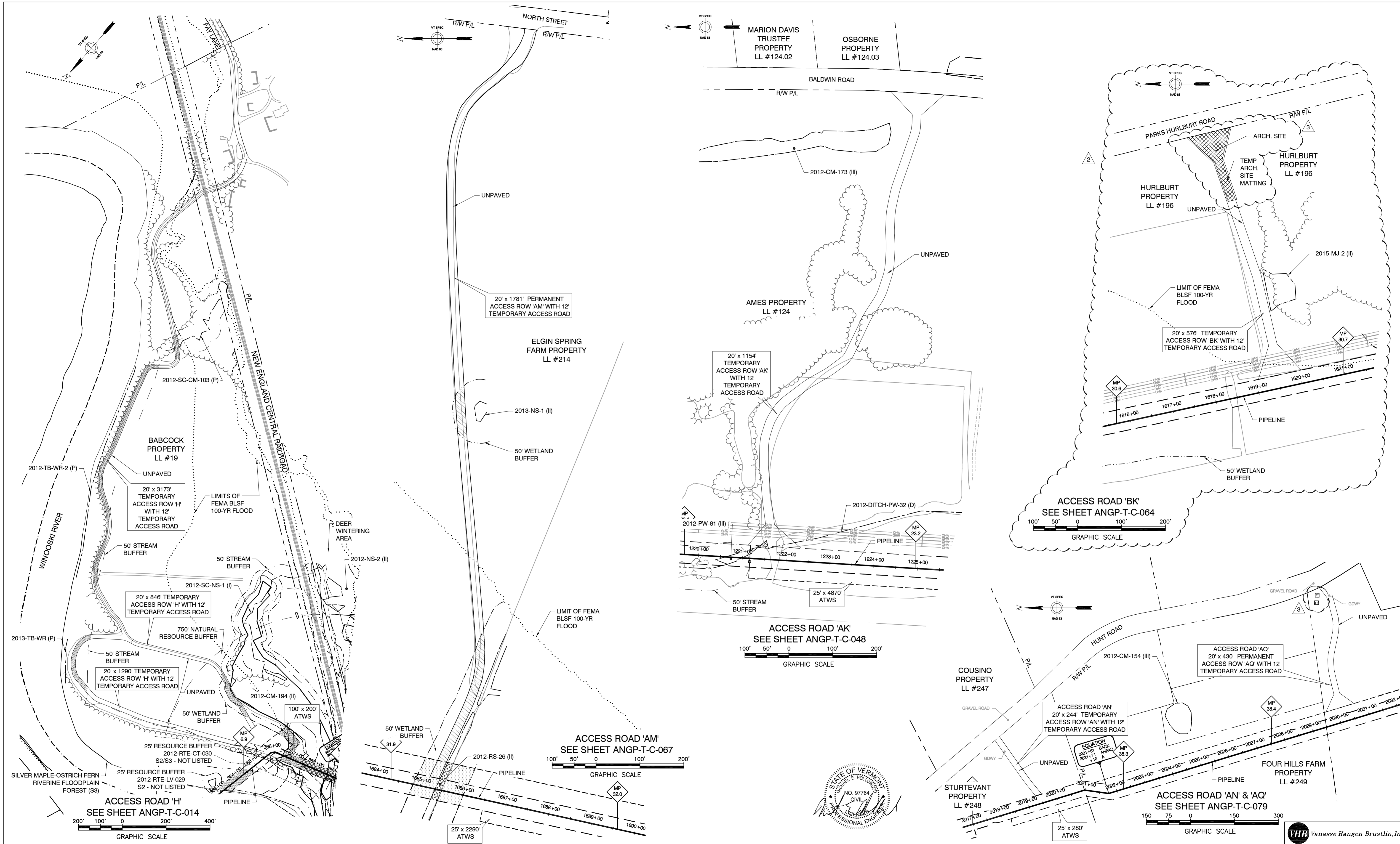


DWG. NO.	REFERENCE DWG.	REV	DSN	BCK	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	AS NOTED	DWG.	ANGP-T-G-007A	REV.	1		
		1	GJM	BCK		IFC 2016 EDITS (05/2016)					2016									
							ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016									
							DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016									
							DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016									
							DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016									
							DESIGN MANAGER	SAB	06/28/13	JEO	05/2016									
											VERMONT GAS									
											PROPOSED 12" PIPELINE									
											ADDISON NATURAL GAS PROJECT									
											ACCESS ROAD DETAILS									
											LOC.	CHITTENDEN & ADDISON COUNTIES								
											YEAR:	2016	W.O.		SCALE:	AS NOTED	DWG.	ANGP-T-G-007A	REV.	1

Vermont Gas

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chacompanies.com



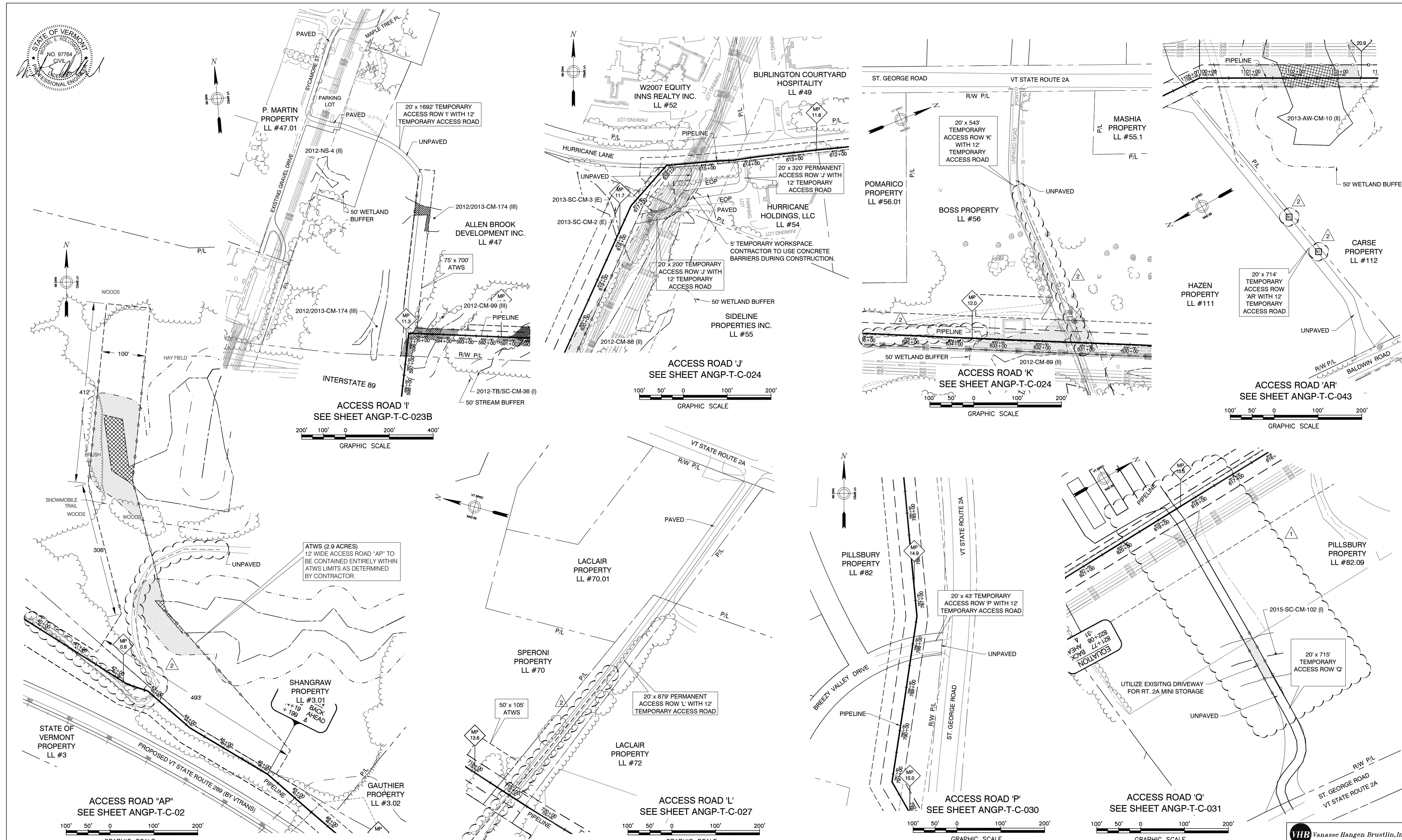
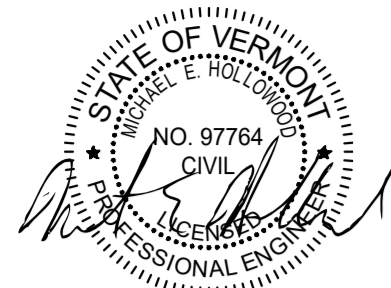
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-007B	REV.
		3	GJM	BCK	IFC 2016 EDITS (05/2016)					2016		AS NOTED			3
		2	VGS	VGS	ACCESS ROAD "BK" ADDED (11/13/15)										
		1	BCK	TDB	VHB EDITS (6/09/15)										

ENVIRONMENTAL	BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ACCESS ROAD DETAILS			
JLS	06/28/13	JLS	05/2016	LOC.	CHITTENDEN & ADDISON COUNTIES	Vermont Gas
GIL	06/28/13	GJM	05/2016	YEAR:	2016	W.O.
BZD	06/28/13	BCK	05/2016	SCALE:	AS NOTED	DWG.
MDF	06/28/13	GEW	05/2016			
SAB	06/28/13	JEO	05/2016			

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 795-0372 • www.chacompanies.com



DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-008	REV.	2
		2	GJM	BCK	IFC 2016 EDITS (05/2016)					2016		AS NOTED				
		1	BCK	TDB	PILLSBURY REROUTE AND ADDED NR DATA (6/05/15)											

	BID	CONSTRUCTION
ENVIRONMENTAL	JLS 06/28/13	JLS 05/2016
DRAFTING DESIGNER	GIL 06/28/13	GJM 05/2016
DRAFTING SUPERVISOR	BZD 06/28/13	BCK 05/2016
DESIGN ENGINEER	MDF 06/28/13	GEW 05/2016
DESIGN MANAGER	SAB 06/28/13	JEO 05/2016

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
ACCESS ROAD DETAILS

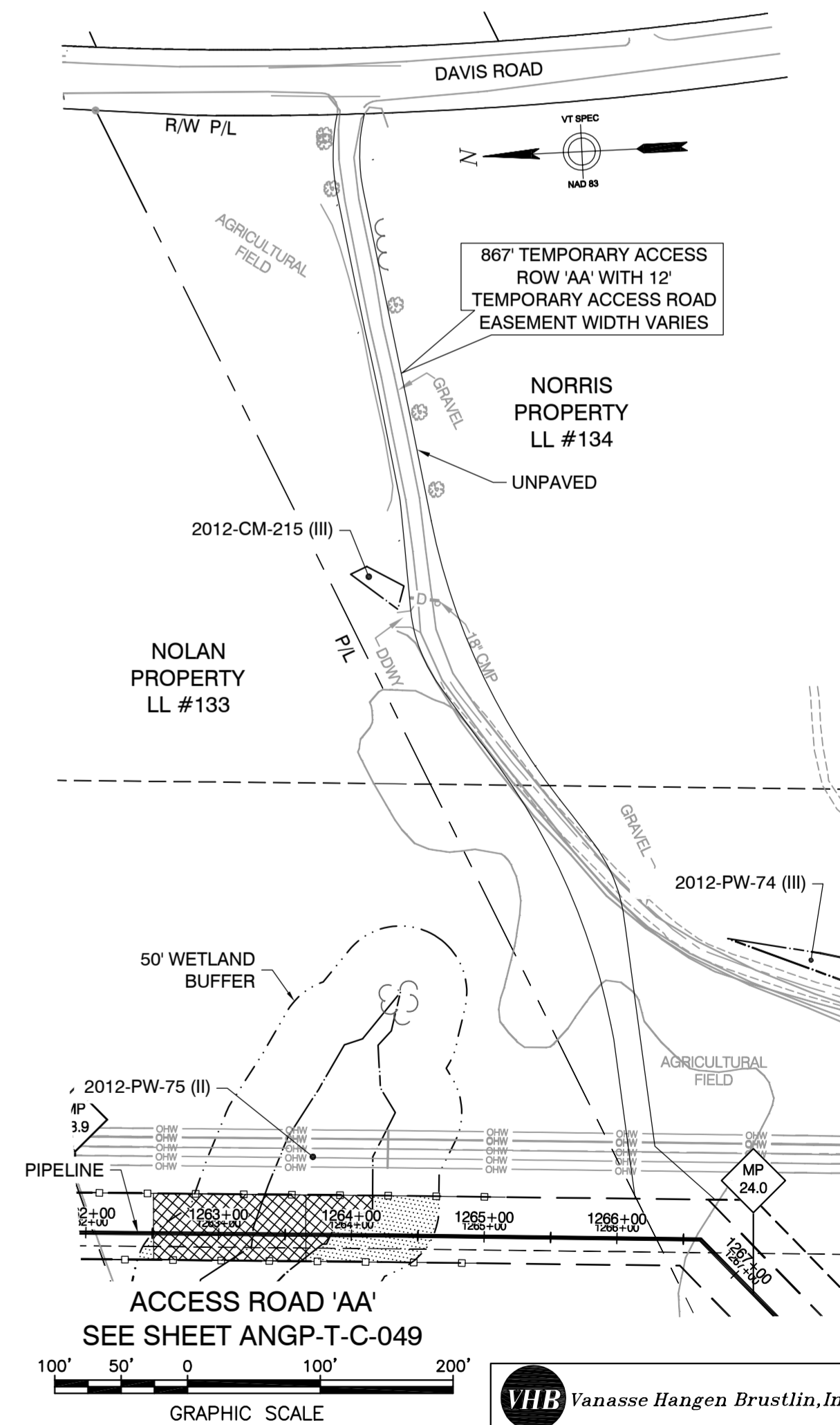
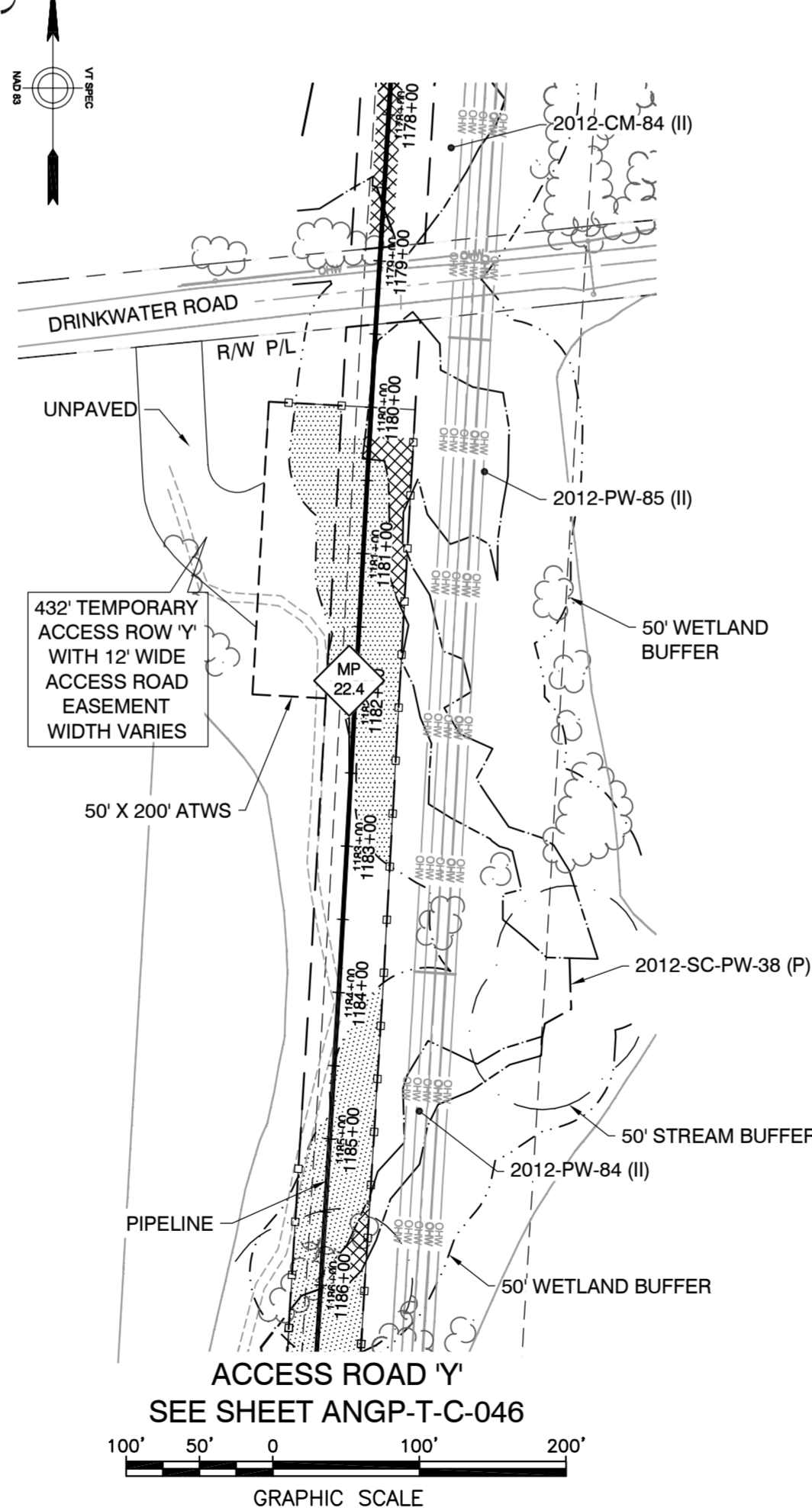
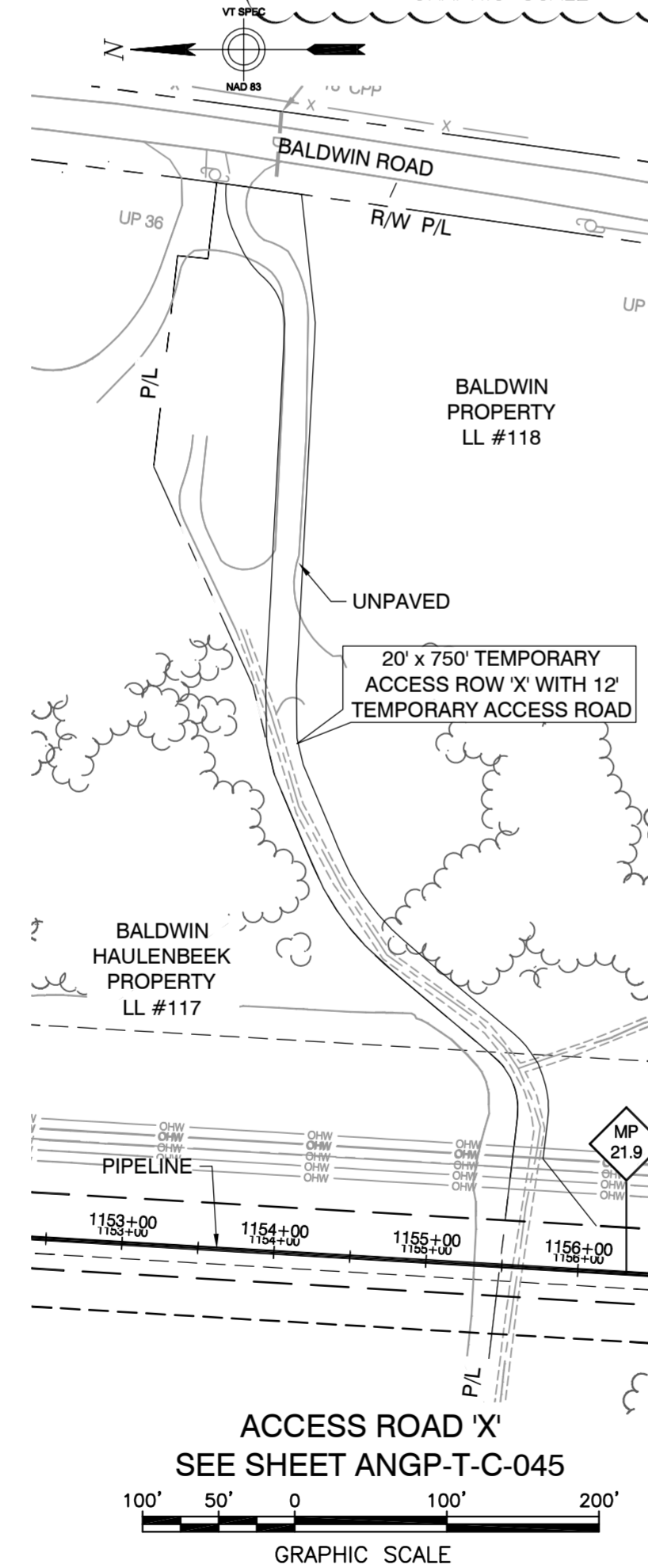
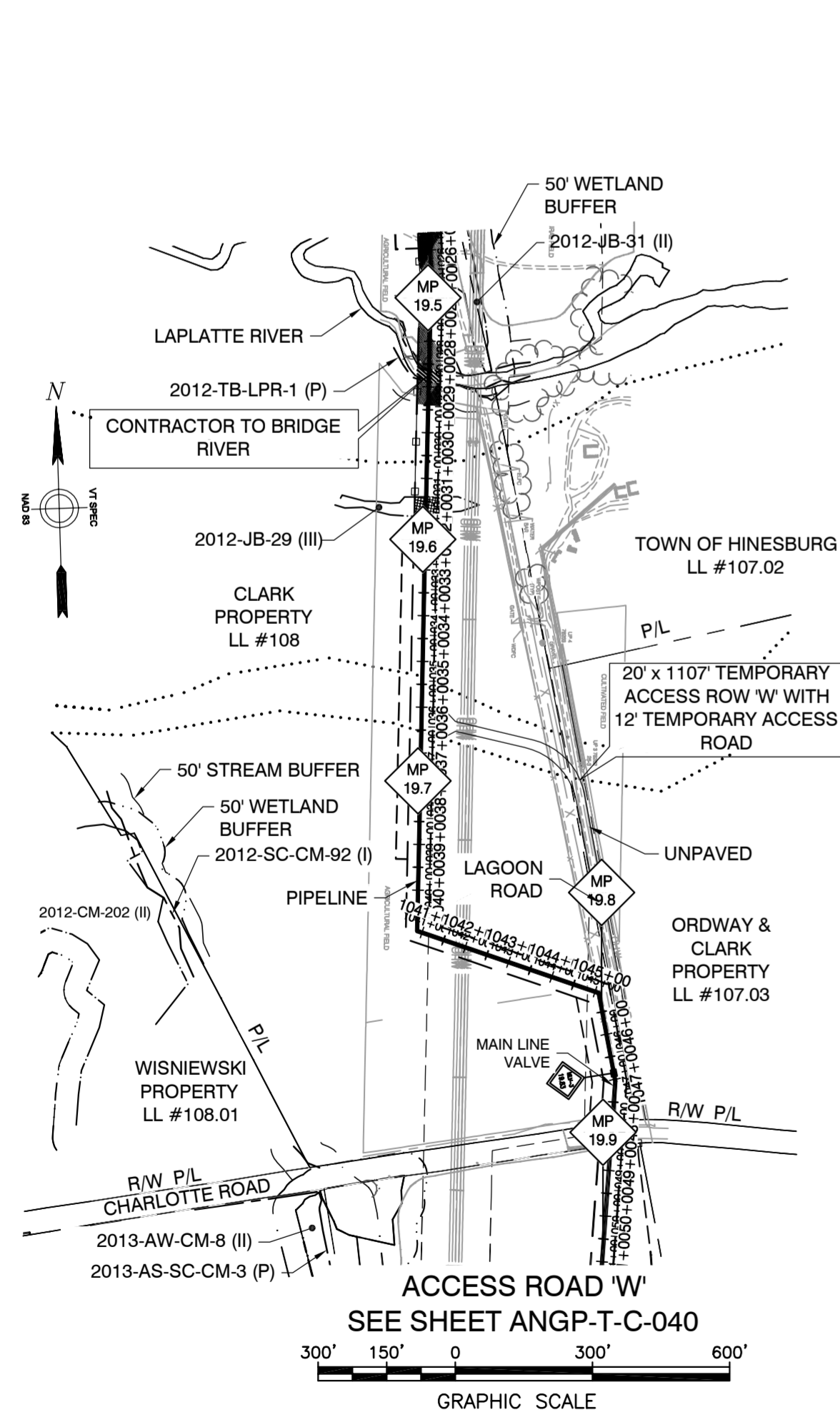
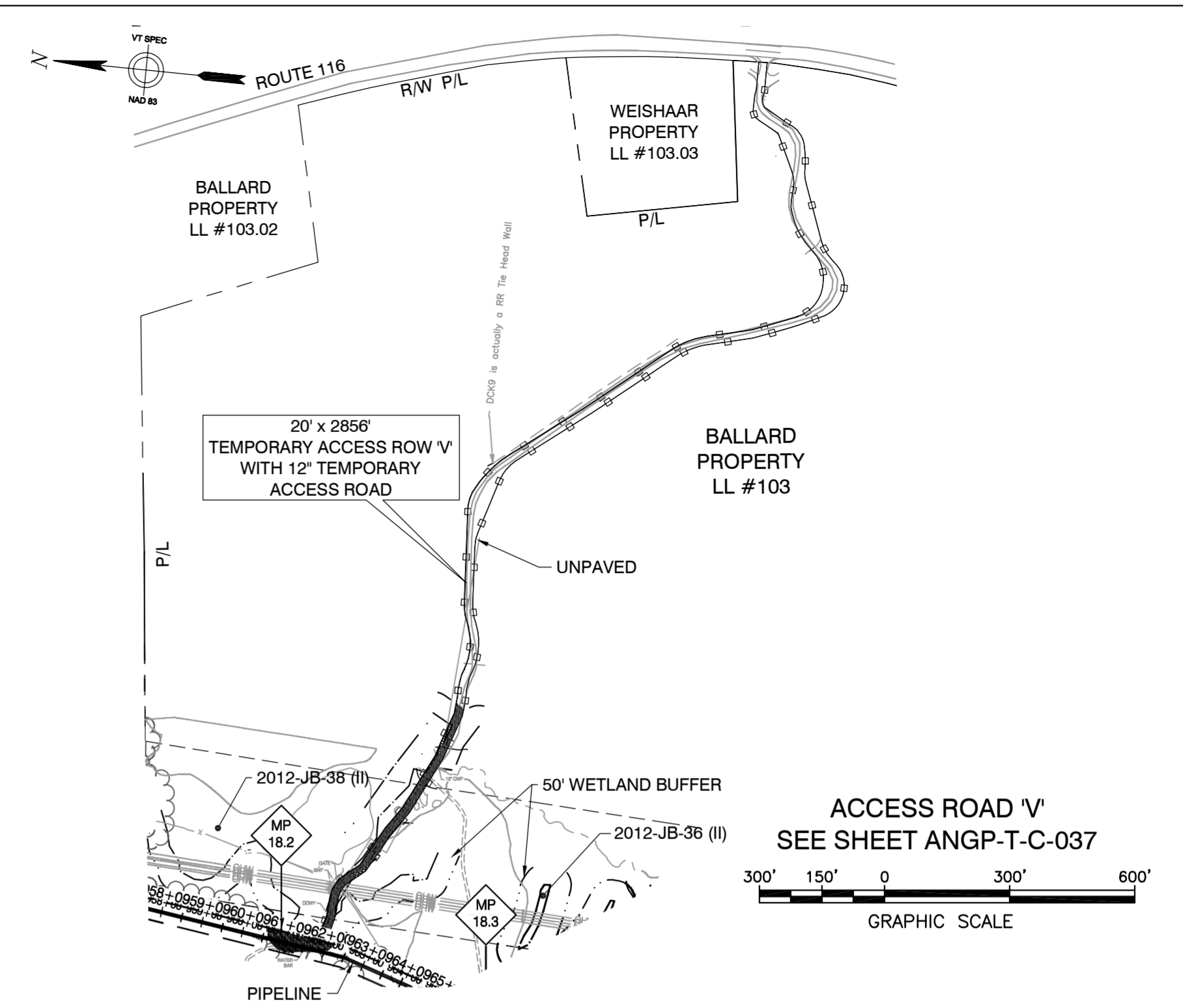
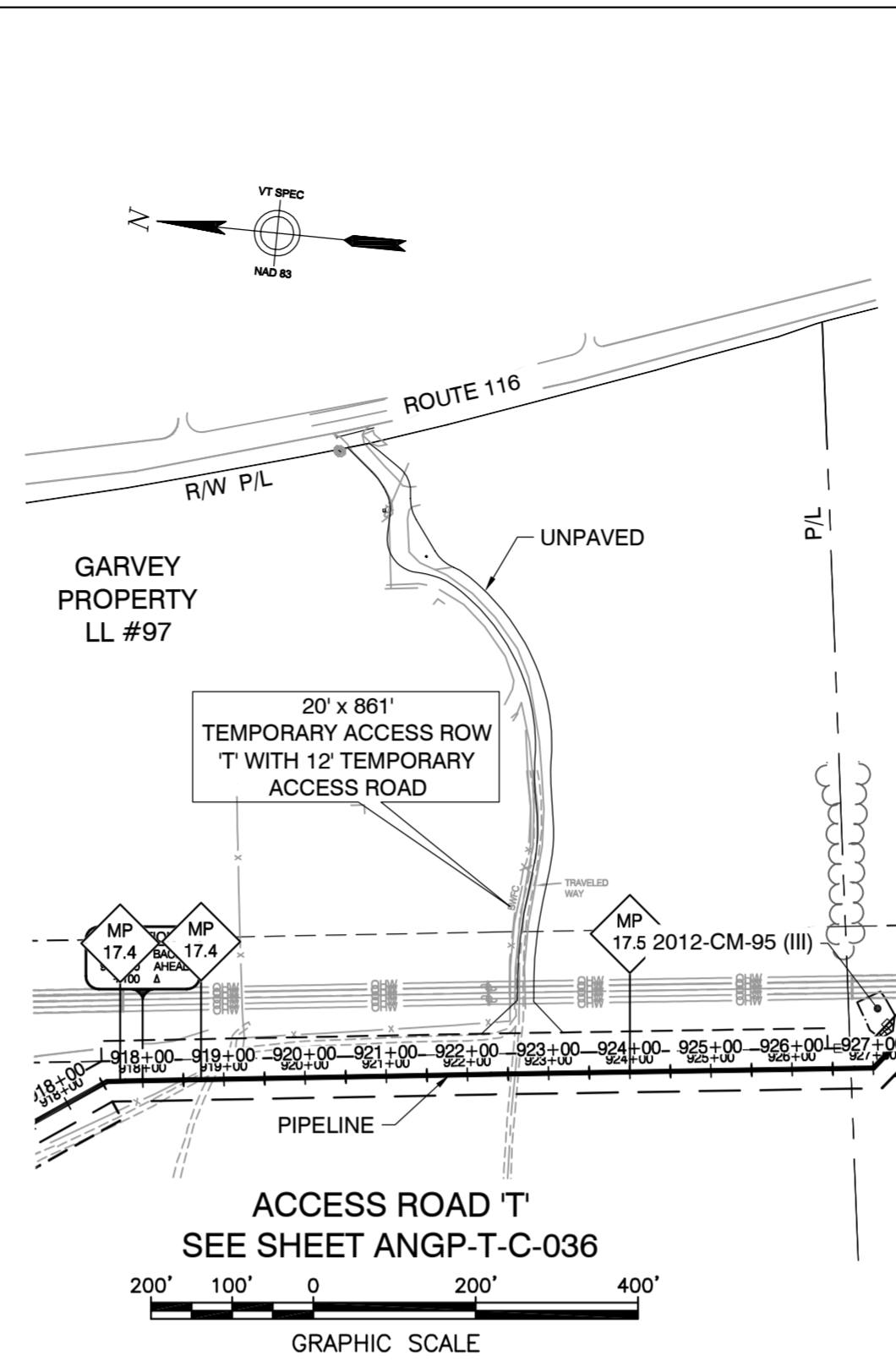
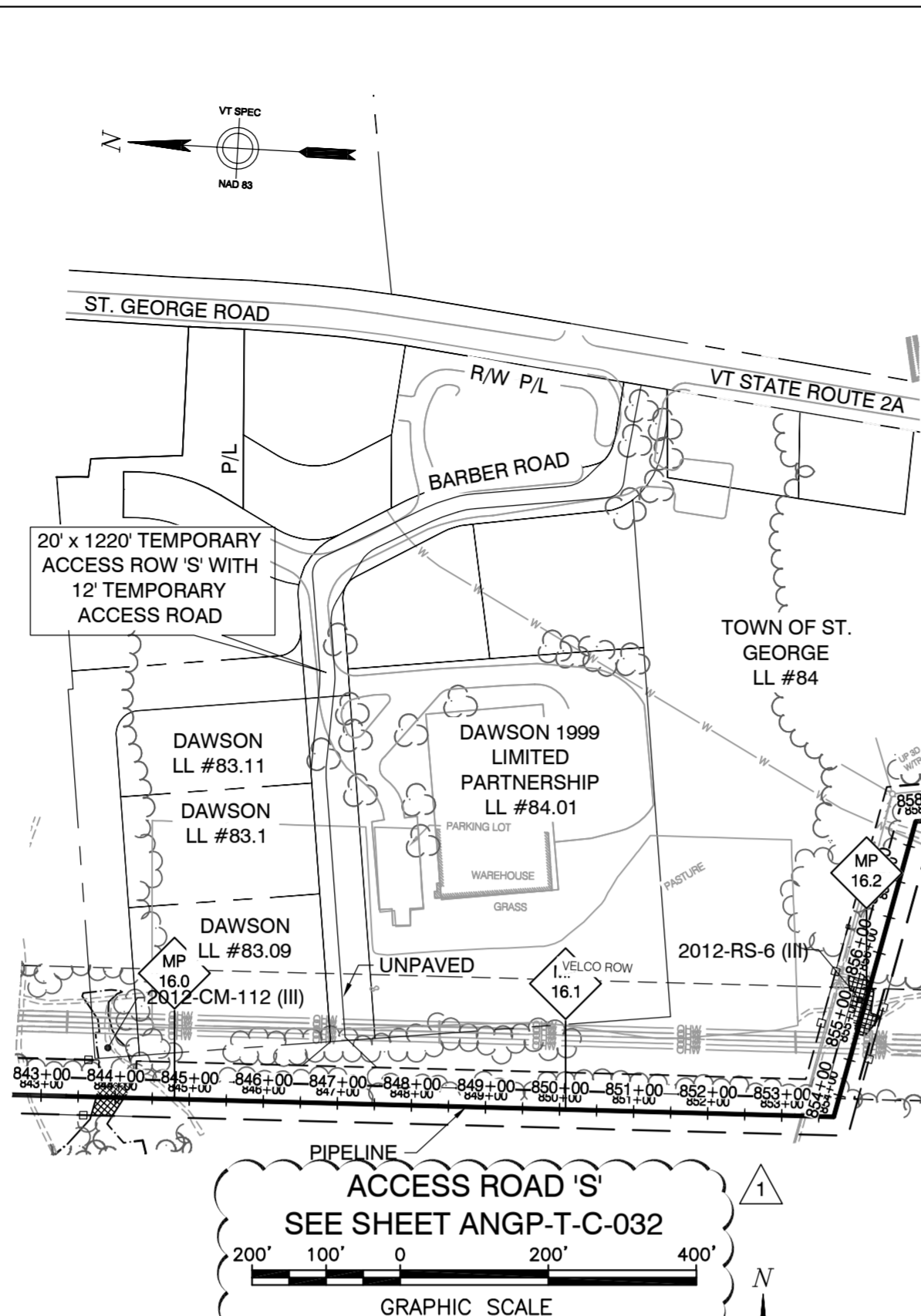
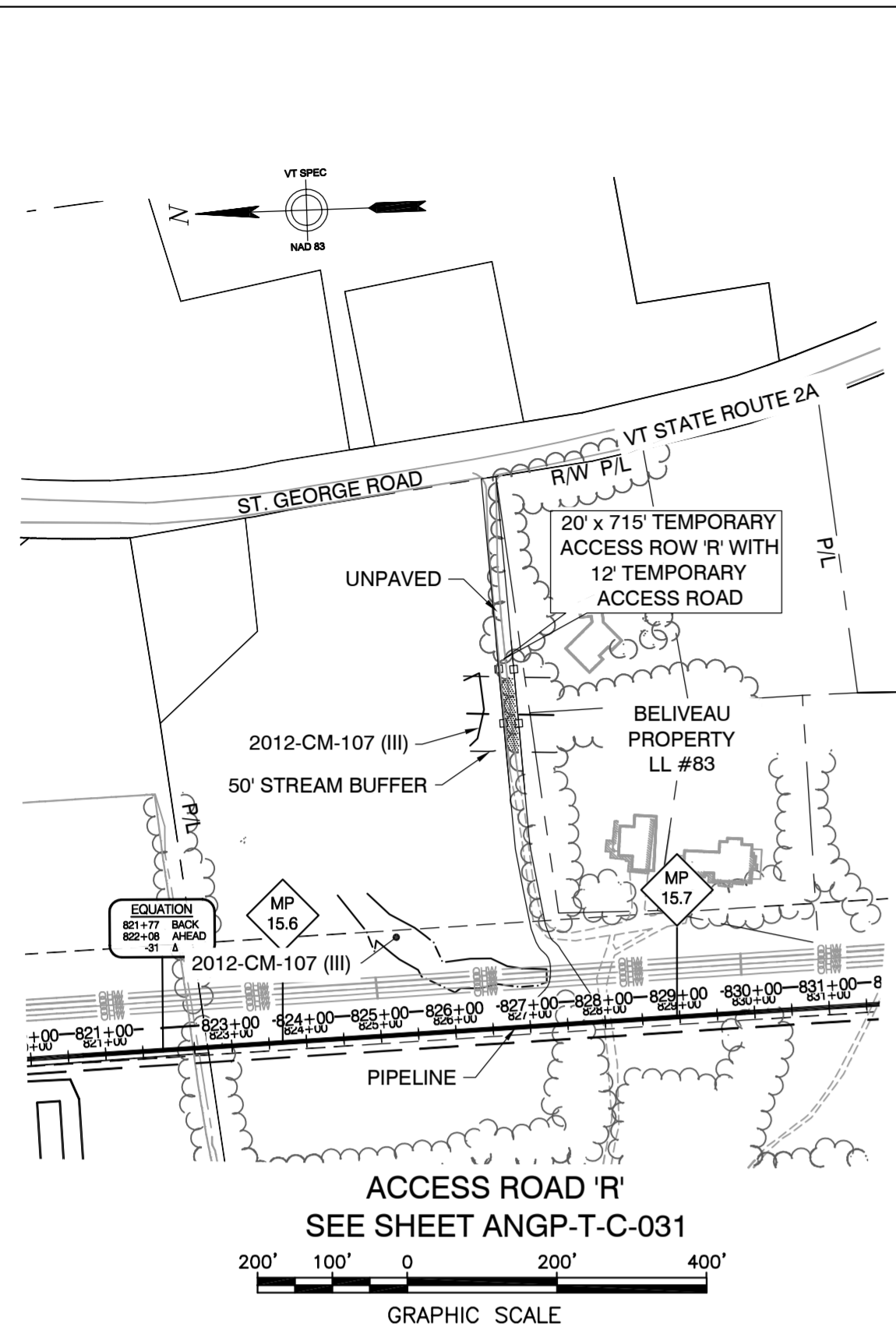
LOC. CHITTENDEN & ADDISON COUNTIES

YEAR: 2016 W.O.

SCALE: AS NOTED

DWG. ANGP-T-G-008

REV. 2



DWG. NO.	REFERENCE DWG.	REV	DSN	TDB	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-009	REV.
		1	BCK	TDB		VHB EDITS (6/09/15)					2016		AS NOTED			1

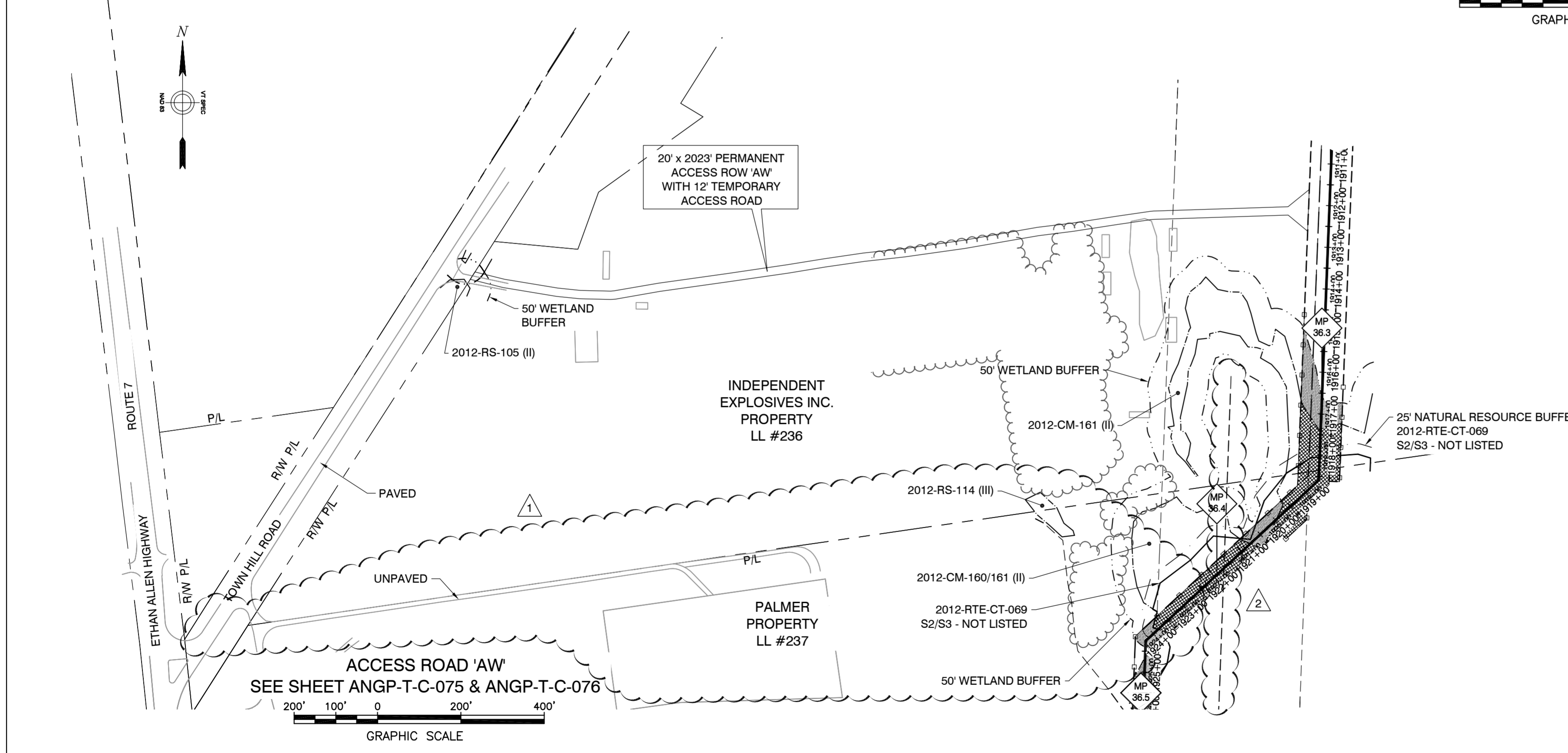
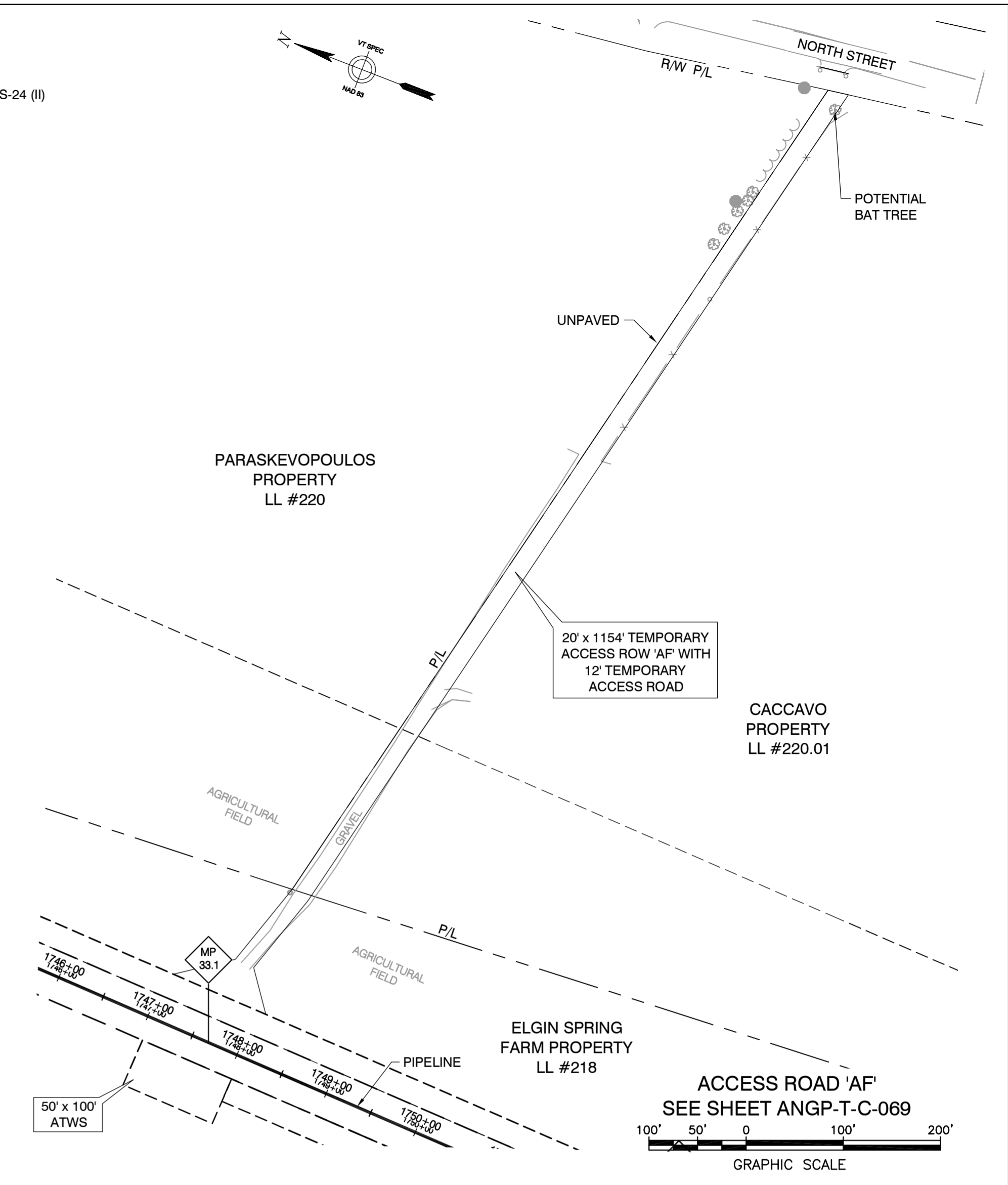
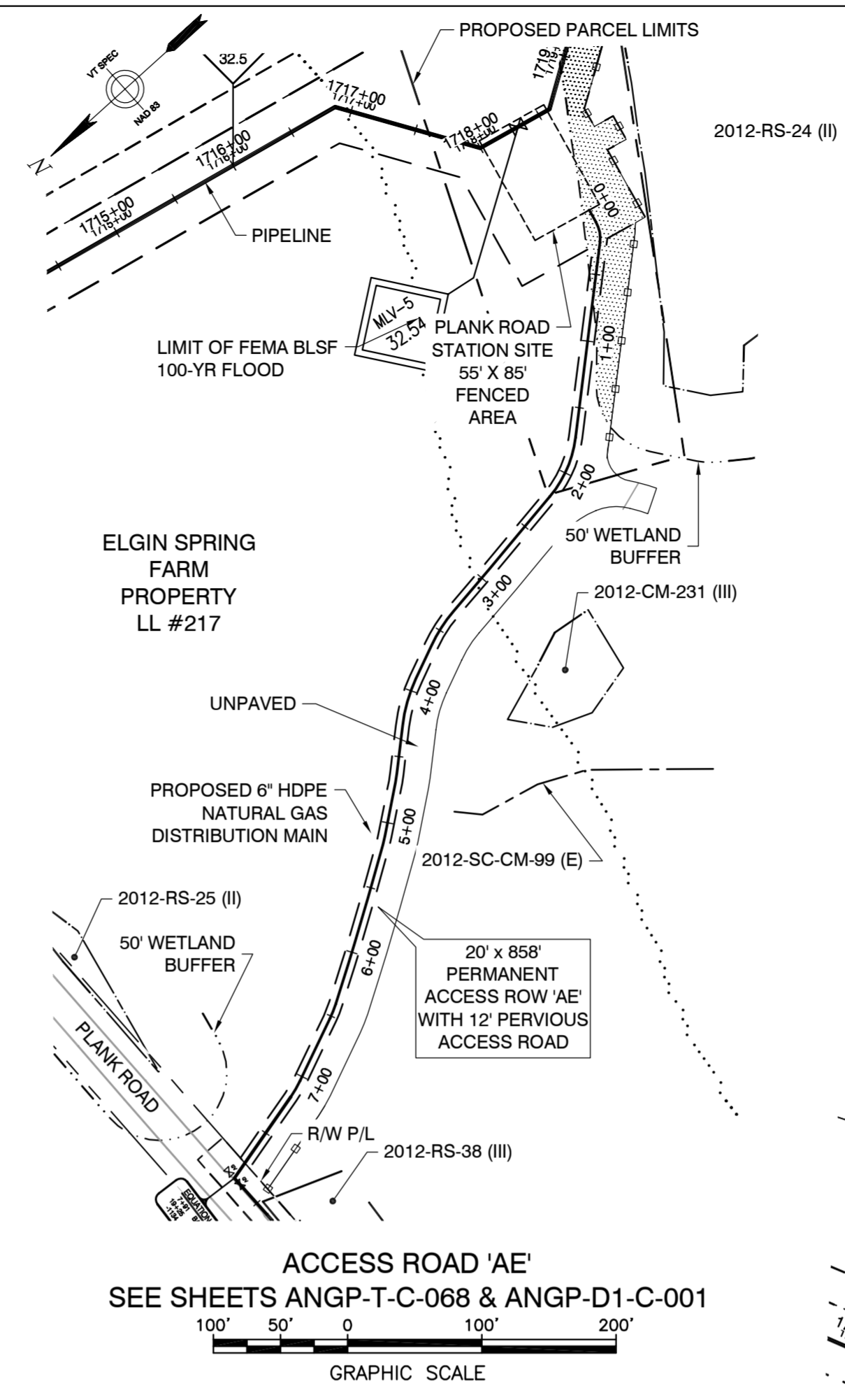
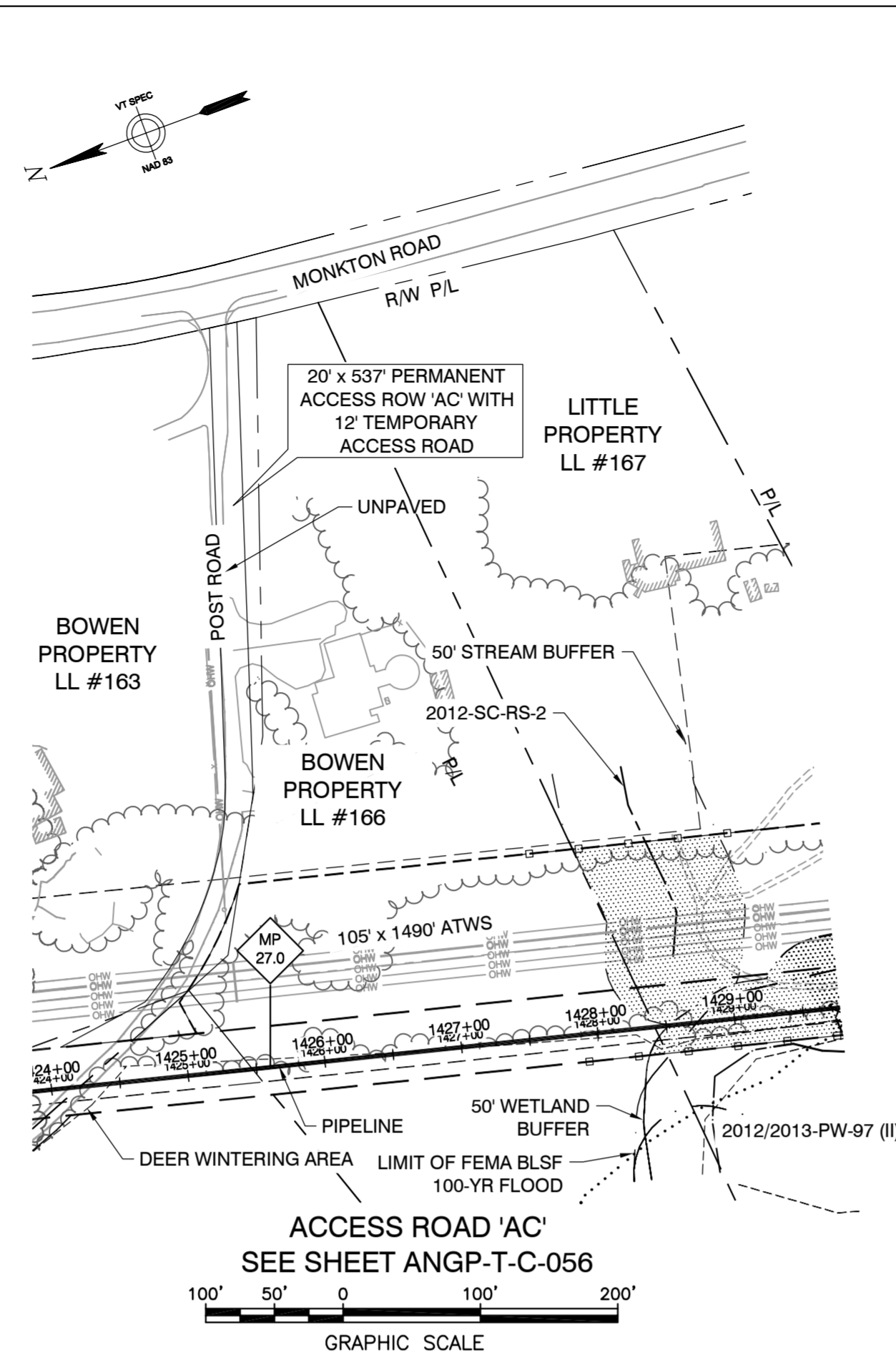
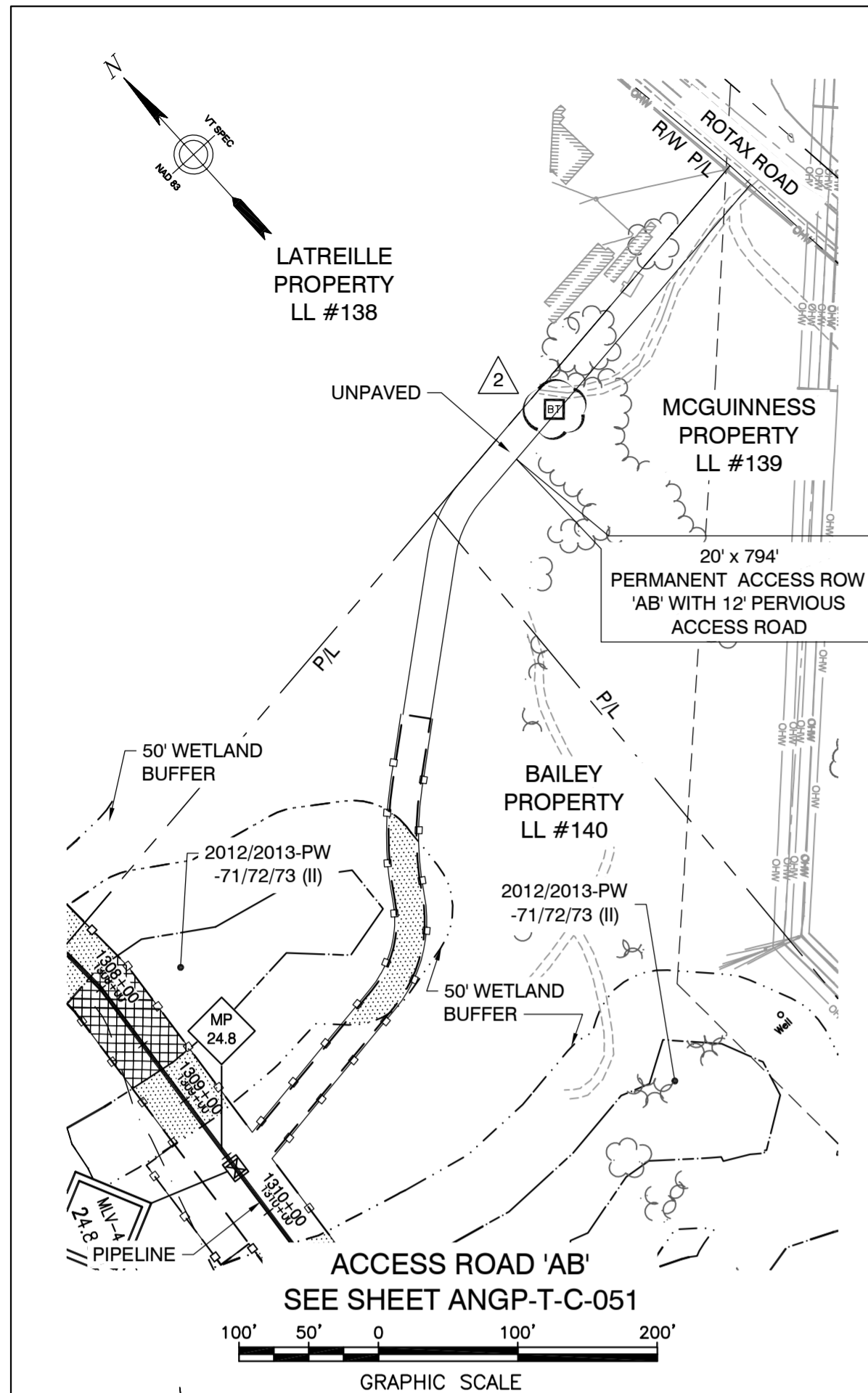
	BID	CONSTRUCTION
ENVIRONMENTAL	JLS 06/28/13	JLS 05/2016
DRAFTING DESIGNER	GIL 06/28/13	GJM 05/2016
DRAFTING SUPERVISOR	BZD 06/28/13	BCK 05/2016
DESIGN ENGINEER	MDF 06/28/13	GEW 05/2016
DESIGN MANAGER	SAB 06/28/13	JEO 05/2016

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
ACCESS ROAD DETAILS

LOC. CHITTENDEN & ADDISON COUNTIES

YEAR: 2016 W.O. SCALE: AS NOTED DWG. ANGP-T-G-009 REV. 1

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chacompanies.com



VHB Vanasse Hangen Brustlin, Inc.

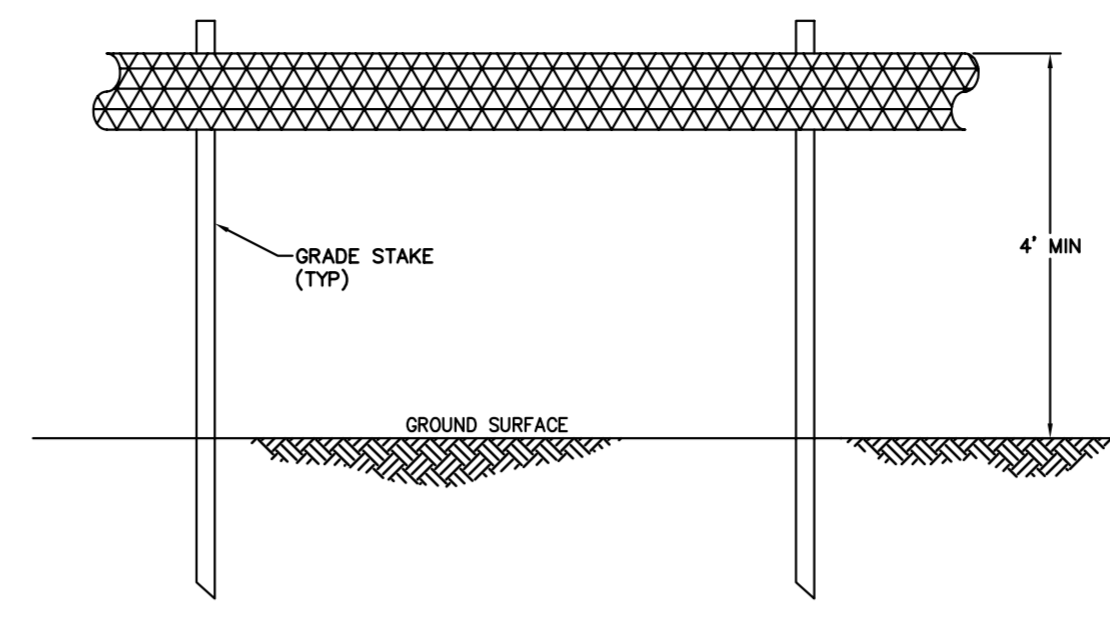
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	BID		CONSTRUCTION		VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT ACCESS ROAD DETAILS		LOC. CHITTENDEN & ADDISON COUNTIES	YEAR: 2016	W.O.	SCALE: AS NOTED	DWG. ANGP-T-G-010	REV. 2
						INITIALS	DATE	INITIALS	DATE								
						JLS	06/28/13	JLS	05/2016								
						GIL	06/28/13	GJM	05/2016								
						BZD	06/28/13	BCK	05/2016								
						MDF	06/28/13	GEW	05/2016								
						SAB	06/28/13	JEO	05/2016								
		2	GJM	BCK	IFC 2016 EDITS (05/2016)												
		1	BCK	TDB	ACCESS ROAD "AG" REMOVED (5/14/15)												

VERMONT GAS
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.vermontgas.com

CIA
Civil Infrastructure Associates
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.ciacompanies.com

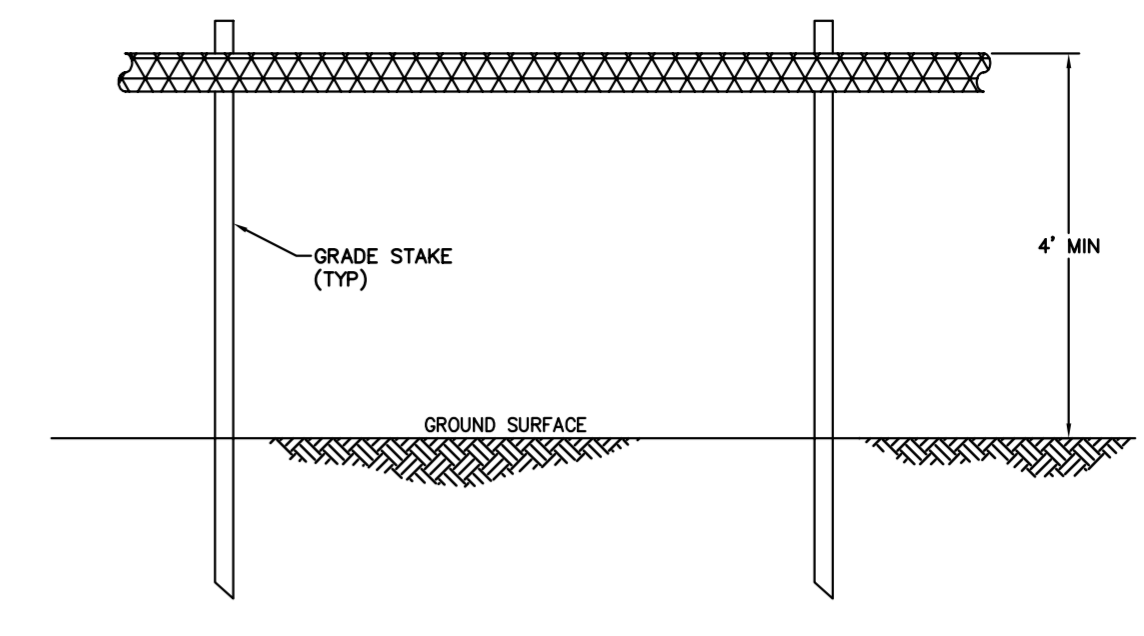
- CONSTRUCTION DEMARCATION:**
- CONSTRUCTION DEMARCATION TO BE INSTALLED ALONG PERIMETER OF LIMITS OF DISTURBANCE PER THE EPSC PLAN.
 - DEMARCATION IS NOT TO CROSS ACTIVE ACCESS ROUTES.
 - WITHIN AT LEAST 50 FEET OF A WATER RESOURCE AREA, DEMARCATION MUST INCLUDE:
 - 2 TO 3 ROWS OF STAKED (OR STAPLED) 3 INCH ORANGE BARRIER MESH TAPE OR ROPE,
 - ORANGE CONSTRUCTION FENCE, OR
 - ORANGE SNOW FENCE.
 - OTHER INTERCHANGEABLE AND/OR DEC APPROVED MEASURE.
 - GREATER THAN AT LEAST 50 FEET FROM WATER RESOURCE AREAS, DEMARCATION MAY INCLUDE:
 - ONE ROW OF STAKED (OR STAPLED) 3 INCH ORANGE BARRIER MESH TAPE OR ROPE, OR
 - ORANGE FLAGGING OR PAINT.
 - OTHER INTERCHANGEABLE AND/OR DEC APPROVED MEASURE.

- PERIMETER CONTROLS:**
- PERIMETER CONTROLS ARE TO BE INSTALLED ON DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SEDIMENT RUNOFF AND/OR SOIL EROSION.
 - PERIMETER CONTROLS ARE NOT TO CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., A STREAM).
 - PARTICULAR CARE IS TO BE TAKEN WHEN INSTALLING PERIMETER CONTROLS IN A WETLAND.
 - WITHIN AT LEAST 50 FEET OF WATER RESOURCE AREAS, PERIMETER CONTROLS MUST INCLUDE:
 - REINFORCED SILT FENCE - TO BE REINFORCED WITH WIRE MESH, STAKED HAYBALES, STAKED FIBER ROLLS, EROSION CONTROL MIX BERMS, OR WOOD CHIP BERMS.
 - STONE BERMS
 - OTHER INTERCHANGEABLE AND/OR DEC-APPROVED MEASURE.
 - GREATER THAN AT LEAST 50 FEET FROM WATER RESOURCE AREAS, PERIMETER CONTROLS MAY INCLUDE:
 - SILT FENCE (NON-REINFORCED)
 - STAKED FIBER ROLLS
 - EROSION CONTROL MIX BERMS
 - OTHER INTERCHANGEABLE AND/OR DEC-APPROVED MEASURE.



Notes:

- BARRIER MESH TAPE OR ROPE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT AREA TO DEMARCAT THE LIMIT OF DISTURBANCE. NO EARTHWORK OR STORAGE OF MATERIALS SHALL BE CONDUCTED BEYOND THIS LIMIT WITHOUT PRIOR APPROVAL FROM THE OSPC.
- USE 3" ORANGE BARRIER MESH TAPE OR 1/2" YELLOW POLYPROPYLENE ROPE.
- WITHIN 50' OF WATER RESOURCE AREAS, USE 2-3 ROWS OF TAPE OR ROPE. BEYOND 50' OF WATER RESOURCE AREAS USE 1 ROW OF TAPE OR ROPE.
- TAPE OR ROPE MAY BE FASTENED TO STAKES, TREES, OR OTHER APPROPRIATE FIXED OBJECTS.
- PROJECT DEMARCATION SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). PROJECT DEMARCATION MAY CROSS RESOURCE AREAS WITH EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
- PROJECT DEMARCATION SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.



Notes:

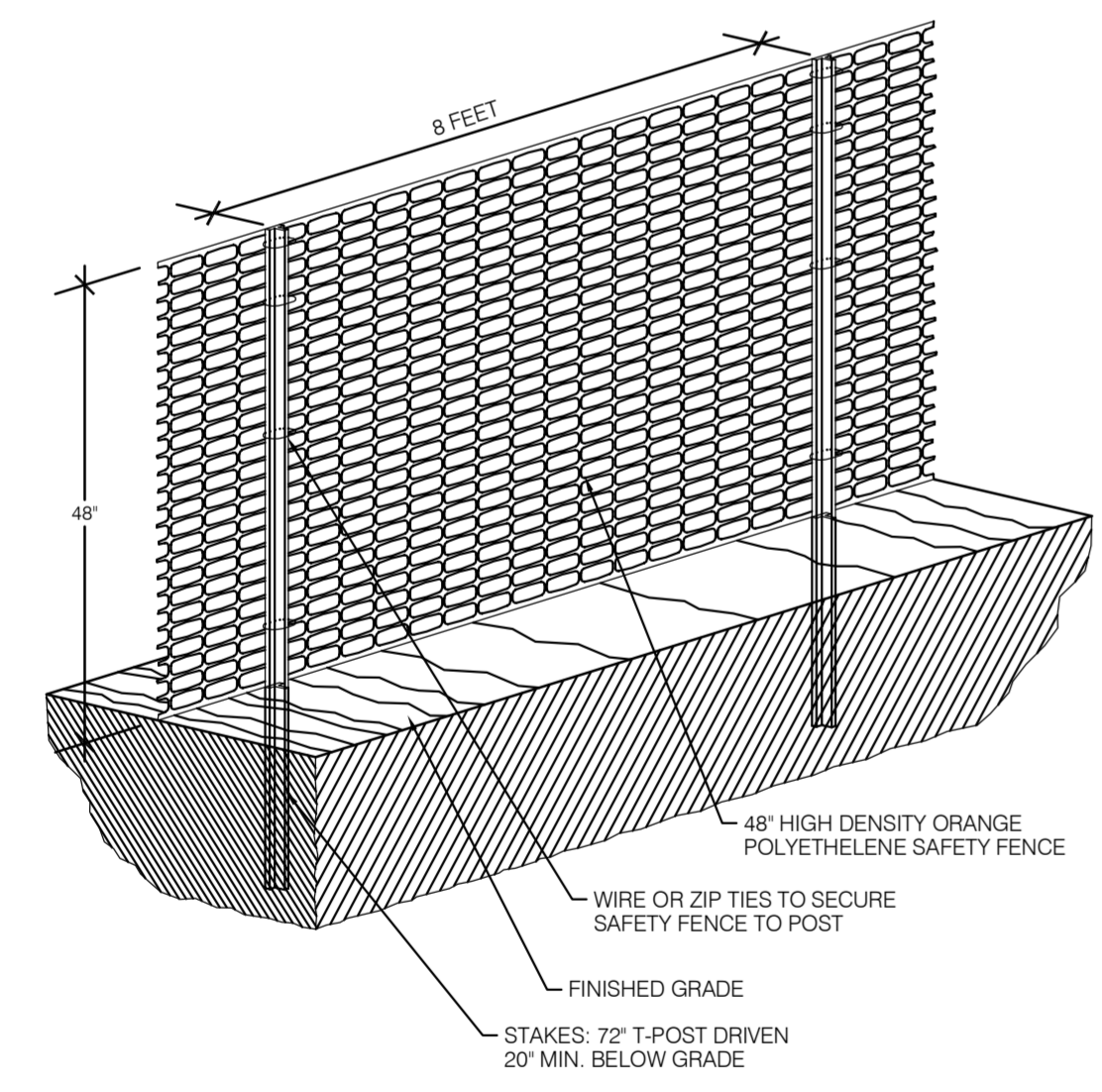
- BARRIER FLAGGING OR PAINT SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT AREA TO DEMARCAT THE LIMIT OF DISTURBANCE. NO EARTHWORK OR STORAGE OF MATERIALS SHALL BE CONDUCTED BEYOND THIS LIMIT WITHOUT PRIOR APPROVAL FROM THE OSPC.
- FLAGGING OR PAINT MAY BE FASTENED TO STAKES, TREES, OR OTHER APPROPRIATE FIXED OBJECTS.
- PROJECT DEMARCATION SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). PROJECT DEMARCATION MAY CROSS RESOURCE AREAS WITH THE EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
- PROJECT DEMARCATION SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

1 Construction Demarcation Table 12/12
N.T.S. Source: VHB LD_

2 Perimeter Control Table 12/12
N.T.S. Source: VHB LD_

3 Barrier Mesh Tape or Rope 12/12
N.T.S. Source: VHB LD_

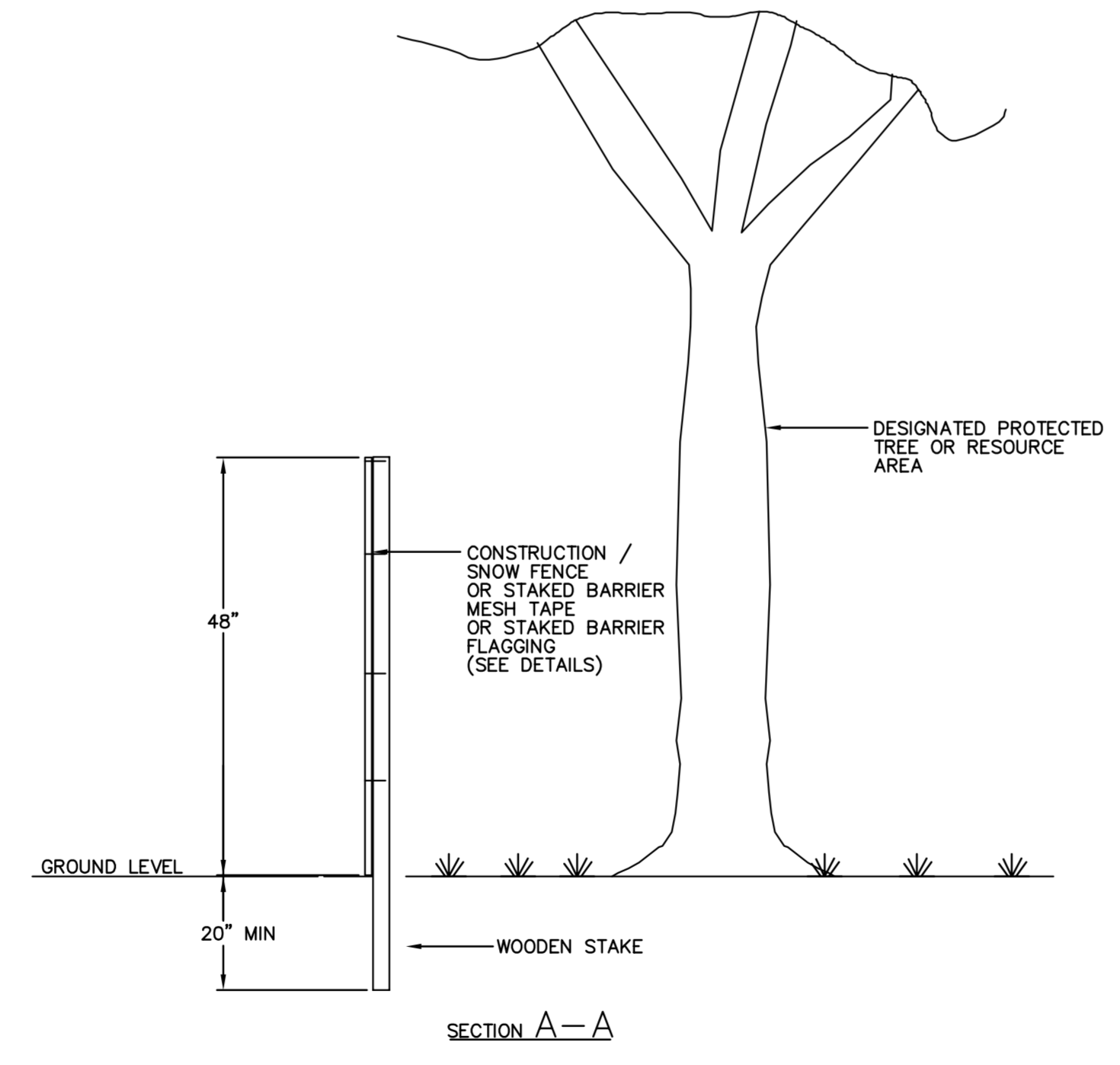
4 Barrier Flagging or Paint 12/12
N.T.S. Source: VHB LD_



Notes:

- CONSTRUCTION/SNOW FENCE SHALL BE INSTALLED WITHIN 50' OF A WATER RESOURCE, (STREAM, BROOK, LAKE, POND, ETC.) UNLESS THE AREA IS DENSELY WOODED, IN WHICH CASE 2 TO 3 ROWS OF ORANGE BARRIER MESH TAPE OR ROPE MAY BE USED.
- CONSTRUCTION/SNOW FENCE SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). CONSTRUCTION/SNOW FENCE MAY CROSS RESOURCE AREAS WITH THE EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
- CONSTRUCTION/SNOW FENCE SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

5 Construction/Snow Fence 12/12
N.T.S. Source: VHB LD_651

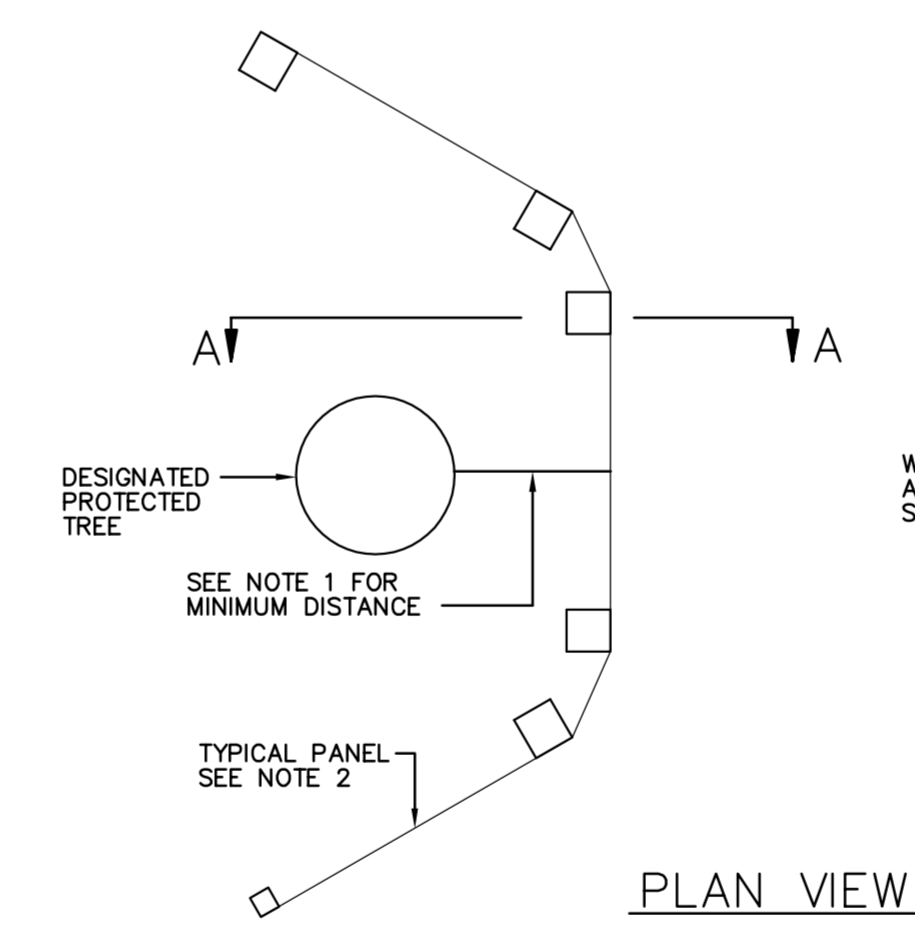


SECTION A-A

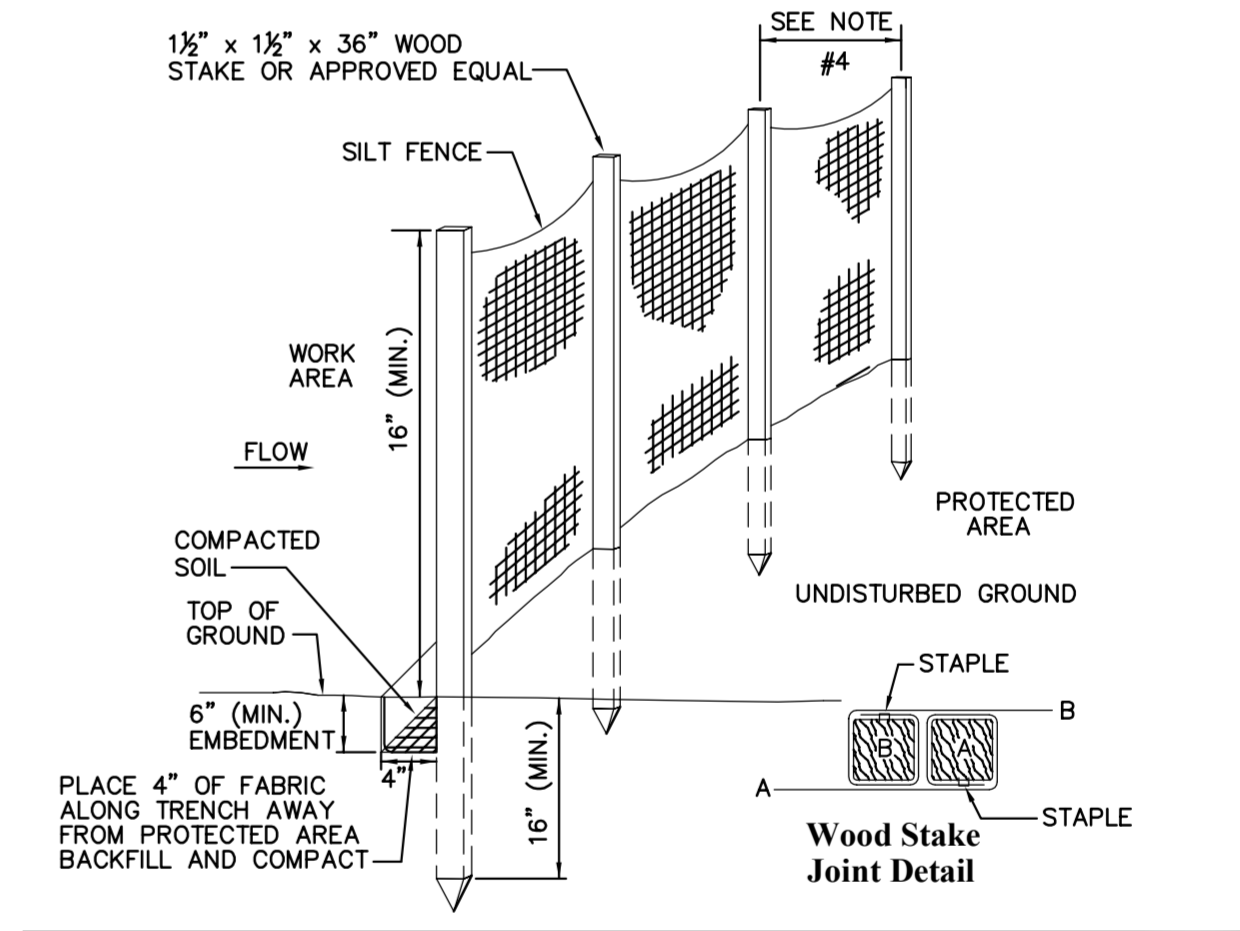
NOTES:

- MINIMUM DISTANCE BETWEEN RESOURCE AND BARRIER SHALL BE 25' UNLESS OTHERWISE DIRECTED BY OSPC.
- RESOURCES REQUIRING PROTECTION FOR ALL SIDES WILL BE BOXED WITH A MINIMUM OF 4 PANELS.
- BARRIER MAY BE CONSTRUCTION/SNOW FENCE, STAKED BARRIER MESH TAPE, OR STAKED BARRIER FLAGGING. (SEE DETAILS.)
- BARRIER TO REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES IN AREA ARE COMPLETE OR AS AS OTHERWISE DIRECTED BY OSPC.

6 Wetland, RTE, and Vegetation Protection Barrier 12/12
N.T.S. Source: CHA LD_



PLAN VIEW



Notes:

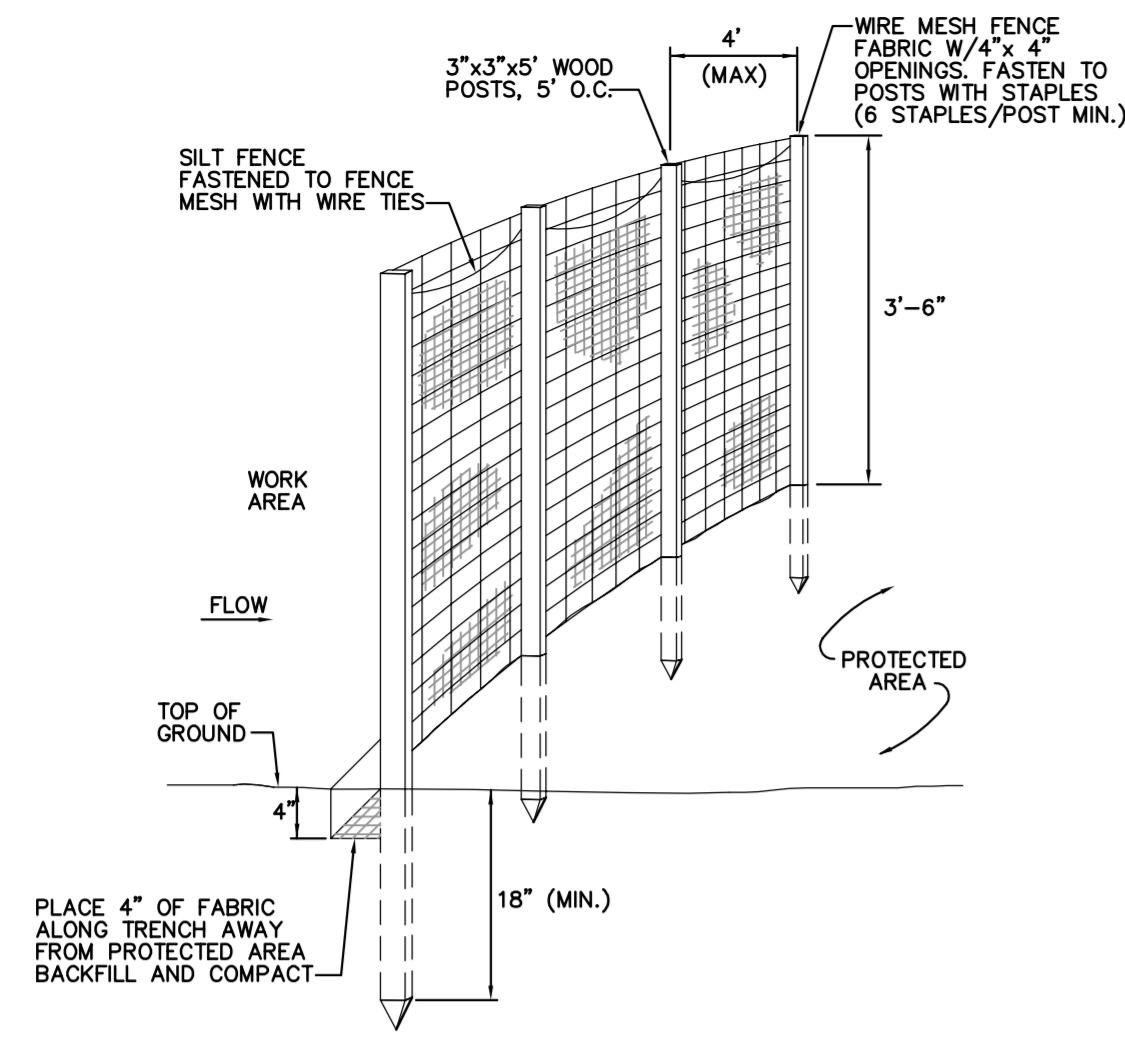
- SEE DETAIL # 2 ON SHEET ANGP-T-G-012 FOR LIST OF APPROPRIATE PERIMETER CONTROLS TO USE.
- FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT.
- FOR FILTER CLOTH FENCE WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4 FT. FOR FILTER CLOTH FENCE WHEN ELONGATION IS <50% POST SPACING SHALL NOT EXCEED 6 FT.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6 INCHES AND FOLDED.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT AND DISPOSED OF IN AN UPLAND AREA.
- PERIMETER CONTROLS SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., LARGER STREAMS/RIVERS).
- PERIMETER CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

7 Silt Fence 12/12
N.T.S. Source: VHB LD_650VT



VHB Vanasse Hangen Brustlin, Inc.

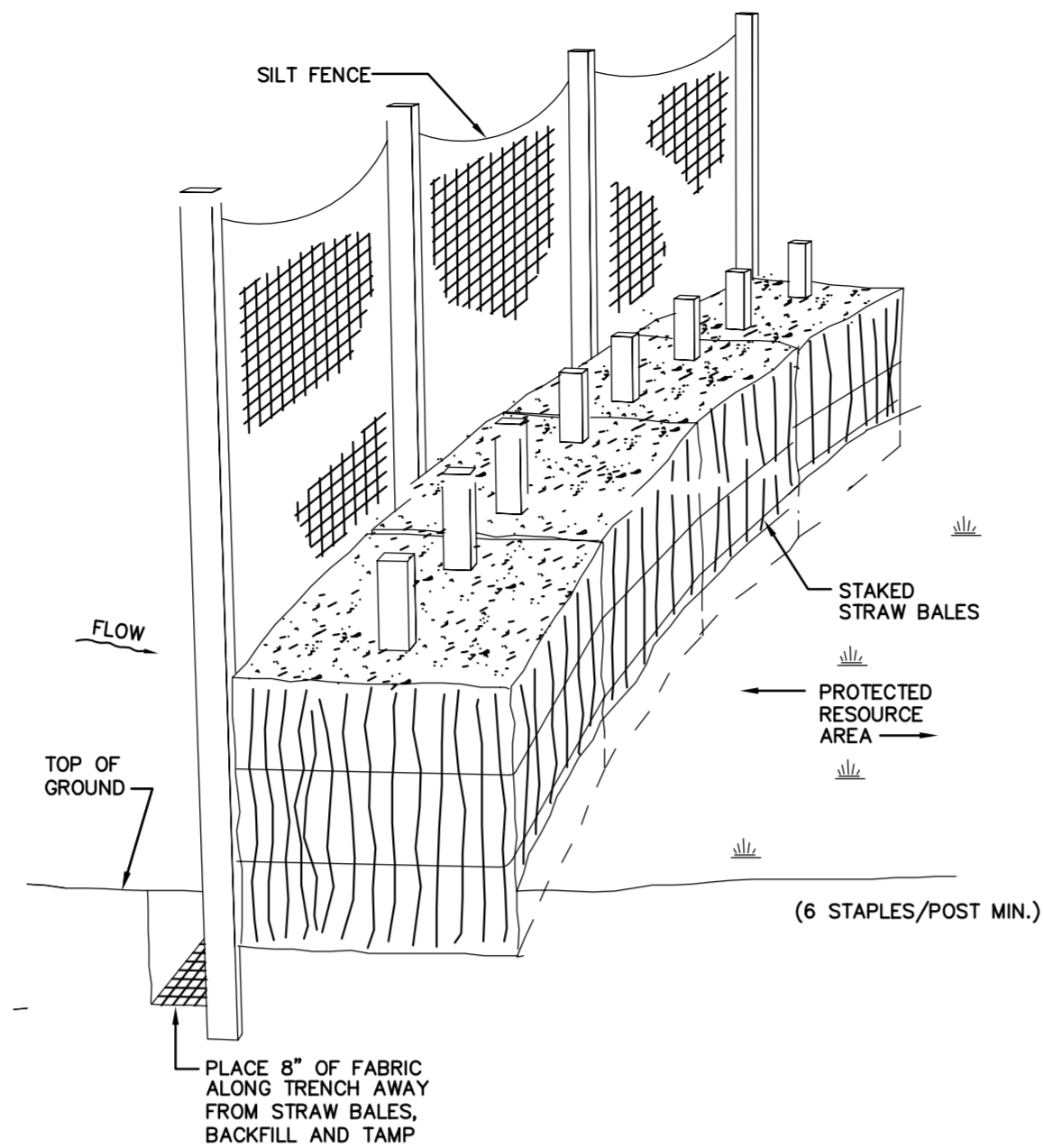
ENVIRONMENTAL		JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT CONSTRUCTION DETAILS				38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 795-0372 - www.chacompanies.com				
DRAFTING DESIGNER		GIL	06/28/13	GJM	05/2016									
DRAFTING SUPERVISOR		BZD	06/28/13	BCK	05/2016									
DESIGN ENGINEER		MDF	06/28/13	GEW	05/2016									
DESIGN MANAGER		SAB	06/28/13	JEO	05/2016									
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: NOTED	DWG. ANGP-T-G-012	REV. 0



Notes:

- SEE DETAIL #2 ON SHEET ANGP-T-G-012 FOR LIST OF APPROPRIATE PERIMETER CONTROLS TO USE
- FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT.
- FOR FILTER CLOTH FENCE WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4 FT. FOR FILTER CLOTH FENCE WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6 FT.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6 INCHES AND FOLDED.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT AND DISPOSED OF IN AN UPLAND AREA.
- PERIMETER CONTROLS SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., LARGER STREAMS/RIVERS).
- PERIMETER CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

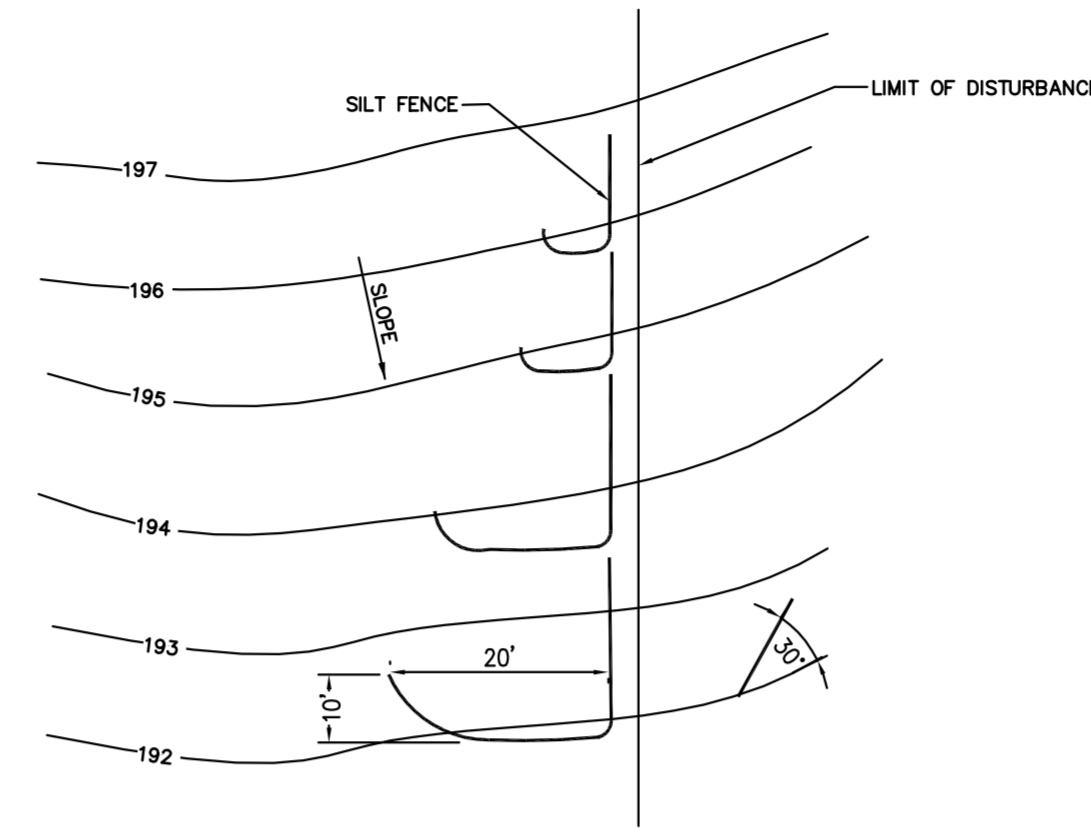
1 Reinforced Silt Fence with Wire Mesh 12/12
N.T.S. Source: VHB LD_651



Notes:

- SEE DETAIL # 2 ON SHEET ANGP-T-G-012 FOR LIST OF APPROPRIATE PERIMETER CONTROLS TO USE
- SEE SILT FENCE DETAIL AND NOTES FOR INSTALLATION SPECIFICATIONS FOR SILT FENCE.
- SEE STAKED HAY BALE DETAIL AND NOTES FOR INSTALLATION SPECIFICATIONS FOR STAKED STRAW BALES. SEEDLESS STRAW BALES ARE TO BE USED IN RESOURCE AREAS AND THEIR BUFFERS; DO NOT USE HAY BALES.
- STAKED STRAW BALES MAY BE INTERCHANGED WITH STAKED FIBER ROLLS.
- PERIMETER CONTROLS SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., LARGER STREAMS/RIVERS).
- PERIMETER CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN AREA HAS BEEN ACHIEVED.

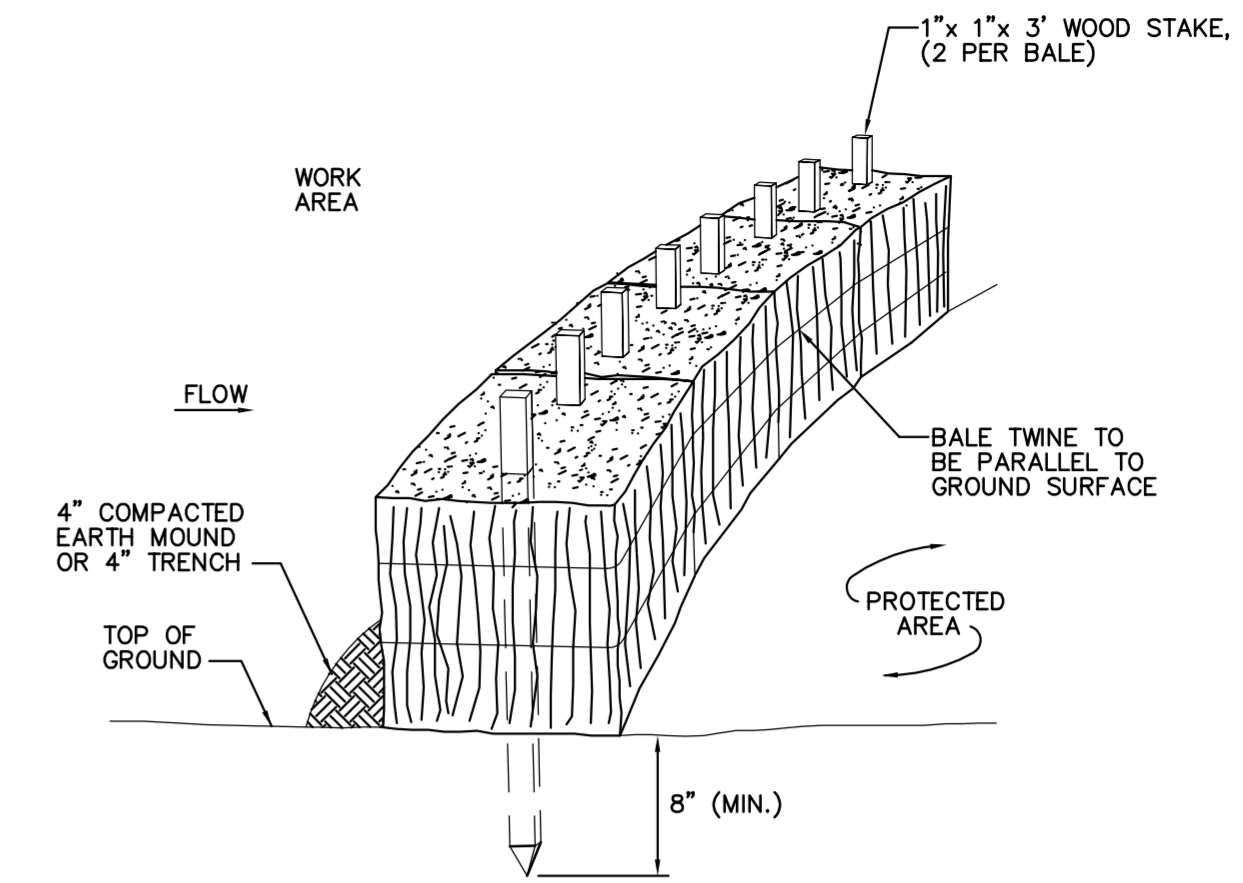
2 Reinforced Silt Fence with Staked Straw Bales 12/12
N.T.S. Source: VHB LD_



Notes:

- SILT FENCE SHALL BE INSTALLED IN SHORTER RUNS WITH "J-HOOKS" TO AVOID CONCENTRATION OF FLOWS AT ONE LOCATION BY TRAPPING RUNOFF AT MULTIPLE POINTS ALONG A SLOPE.
- MINIMUM WIDTH OF J-HOOK RECOMMENDED AT 20 FT WITH A DEPTH OF 10 FT. WHERE SPACE IS LIMITED (E.G., ALONG NARROW RIGHTS OF WAY), NARROWER HOOKS CAN BE USED WITH A HIGHER SPACING FREQUENCY.
- START DOWN-GRADE SILT FENCE LINE AS CLOSE AS POSSIBLE TO UP-GRADE J-HOOK.
- SEE SILT FENCE NOTES FOR INSTALLATION SPECIFICATIONS.

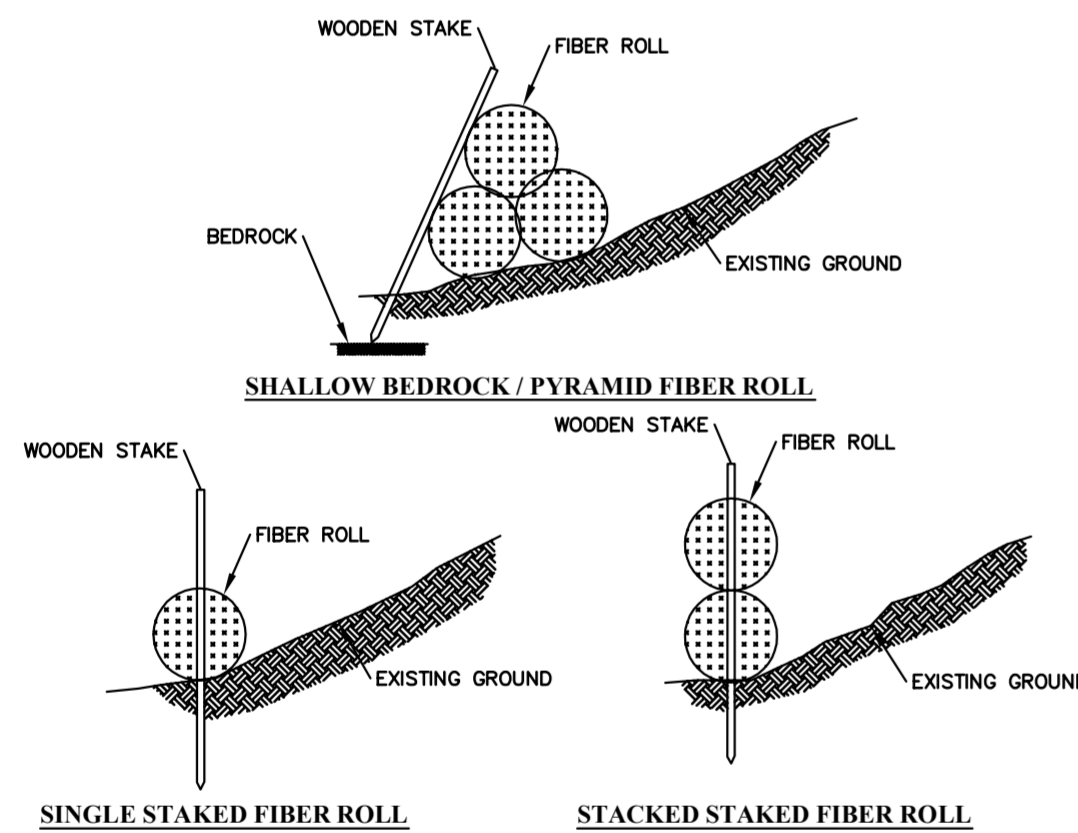
3 Silt Fence "J-Hooks" 12/12
N.T.S. Source: VHB LD_



Notes:

- ENSURE BALES ARE TRENCHED INTO THE GROUND (4" MIN) OR A 4" COMPACTED EARTH MOUND IS PRESENT ON UP GRADIENT SIDE OF BARRIER.
- ENSURE BALES ARE INSTALLED SO ROPE RUNS PARALLEL TO GROUND.
- ENSURE STAKES ARE PROPERLY HAMMERED IN, LEAVING ~ 4" OF EXPOSURE ABOVE THE BALE.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 OF THE OVERALL HEIGHT. DISPOSE OF IN AN UPLAND AREA AWAY FROM WATER FLOW.
- MAINTAIN AND REPLACE HAY BALES AS NEEDED.

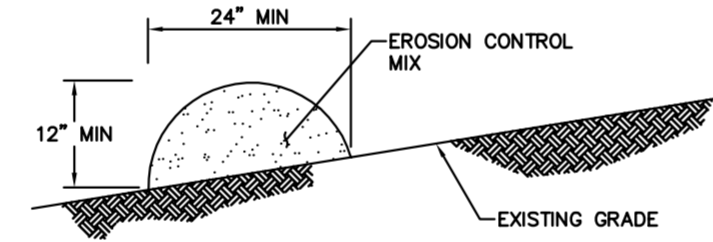
4 Staked Hay Bales 12/12
N.T.S. Source: VHB LD_653



Notes:

- SEE DETAIL # 2 ON SHEET ANGP-T-G-012 FOR LIST OF APPROPRIATE PERIMETER CONTROLS TO USE.
- FIBER ROLL SHALL BE PLACED IN SHALLOW TRENCH UP TO 4", WHERE FEASIBLE, PLACING SOIL REMOVED FROM TRENCH BEHIND THE ROLL.
- FIBER ROLLS SHALL BE ANCHORED WITH 2" BY 2" WOODEN STAKES (36" LONG), OR SIMILAR, WHERE FEASIBLE, EITHER INSTALLED THROUGH CENTER OF ROLL (AS SHOWN) OR PLACED ON BOTH SIDES OF ROLL.
- STAKES TO BE PLACED 4 FT APART, MINIMUM.
- SINGLE OR DOUBLE STAKED STAKED FIBER ROLLS TO BE INSTALLED WHERE SOIL DEPTH ALLOWS. WHERE SHALLOW TO BEDROCK, PYRAMID FIBER ROLLS TO BE UTILIZED WITH STAKES, AS FEASIBLE.
- FIBER ROLLS TO BE REPLACED OR REPLENISHED AS NEEDED DURING ACTIVE EARTH WORK.
- PERIMETER CONTROLS SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., STREAMS/RIVERS).
- PERIMETER CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN AREA HAS BEEN ACHIEVED.

5 Staked Fiber Roll 12/12
N.T.S. Source: VHB LD_



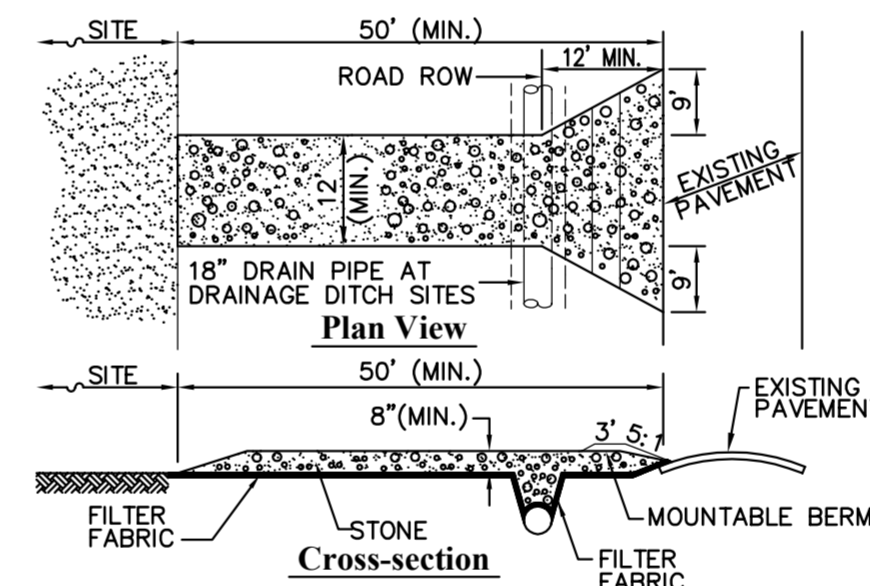
Notes:

COMPOSITION
EROSION CONTROL MIX BERM SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK AND/OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

INSTALLATION

- SEE DETAILS # 2 ON SHEET ANGP-T-G-012 FOR LIST OF APPROPRIATE PERIMETER CONTROLS TO USE.
- THE BERM SHALL BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
- EXISTING GROUND SHALL BE PREPARED AS NEEDED SUCH THAT THE BERM LIES NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BERM.
- ON SLOPES < 5% OR AT THE BOTTOM OF STEEPER SLOPES (<2:1) UP TO 20' LONG, THE BERM MUST BE A MINIMUM OF 12" HIGH, AS MEASURED ON THE UPHILL SIDE OF THE BERM, AND A MINIMUM OF 2 FT. WIDE ON LONGER OR STEEPER SLOPES, THE BERM SHALL BE WIDER TO ACCOMMODATE ADDITIONAL FLOW.
- BERM MAY BE INSTALLED IN PLACE OF SILT FENCE EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW STORMWATER OUTFALLS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM. BERM MAY BE USED IN WETLAND BUFFER AREAS BUT MAY NOT BE USED IN WETLANDS AREA.
- PERIMETER CONTROLS SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., LARGER STREAMS/RIVERS).
- PERIMETER CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN AREA HAS BEEN ACHIEVED.

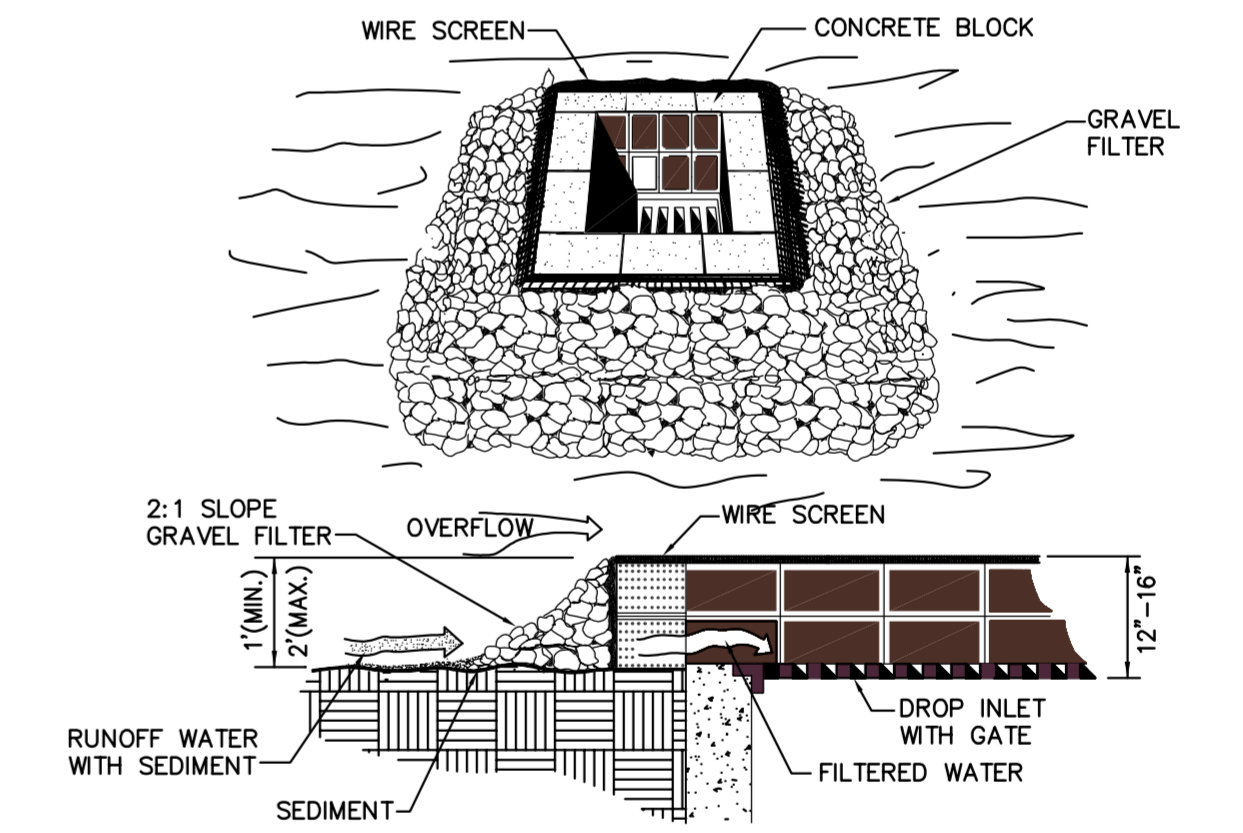
6 Erosion Control Mix Berm 12/12
N.T.S. Source: VHB LD_



Notes:

- STONE SIZE: USE 1 TO 4 INCH DIAMETER STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH: NOT LESS THAN 50 FEET.
- THICKNESS: NOT LESS THAN 8 INCHES.
- WIDTH: EXIT WIDTH SHALL BE A TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE: MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
- SURFACE WATER: ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EXITS SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE: THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. MAINTENANCE MAY REQUIRE TOP DRESSING W/ADDITIONAL AGGREGATE.
- WHEN WHEEL/EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.
- STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

7 Stabilized Construction Exit 12/12
N.T.S. Source: VHB LD_



Notes:

- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW THE REST OF THE INLET AND BLOCKS SHALL BE PLACED AGAINST THE INLET FOR SUPPORT.
- CONCRETE BLOCKS SHOULD BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF EACH BLOCK SHOULD BE ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED DEPENDING ON THE DESIGN BY STACKING VARIOUS COMBINATIONS OF DIFFERENT SIZED BLOCKS. THE BARRIER SHOULD BE A MINIMUM OF 12 INCHES HIGH AND A MAXIMUM OF 16 INCHES HIGH.
- HARDWARE CLOTH OR 1/2" WIRE MESH SHOULD BE PLACED OVER THE OPENINGS OF THE CONCRETE BLOCKS AND EXTENDED AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCK.
- USE CLEAN STONE OR GRAVEL 1/2" TO 3/4" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2H:1V SLOPE OR FLATTER.
- A 1 FOOT THICK LAYER OF FILTER STONE WILL BE PLACED AGAINST THE 3" STONE.
- MAXIMUM DRAINAGE AREA PER SEDIMENT TRAP IS 1 ACRE.
- BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER SHALL BE CONSTRUCTED IN PAVED AREAS.

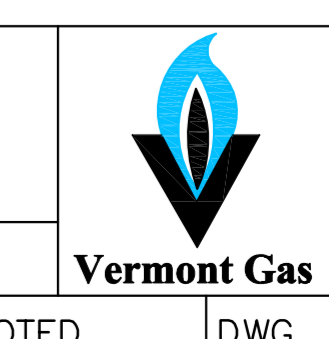
8 Block and Gravel Drop Inlet Sediment Filter (Paved Areas) 10/13
N.T.S. Source: VHB LD_

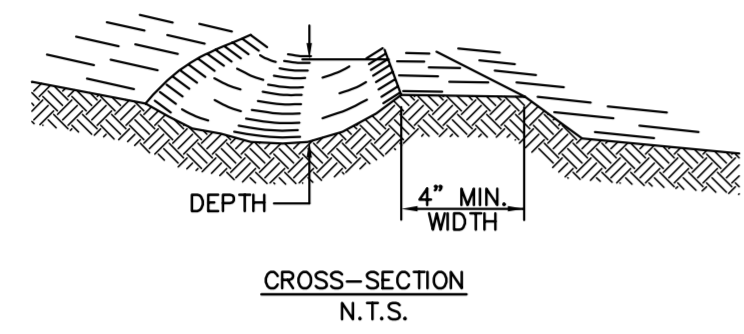
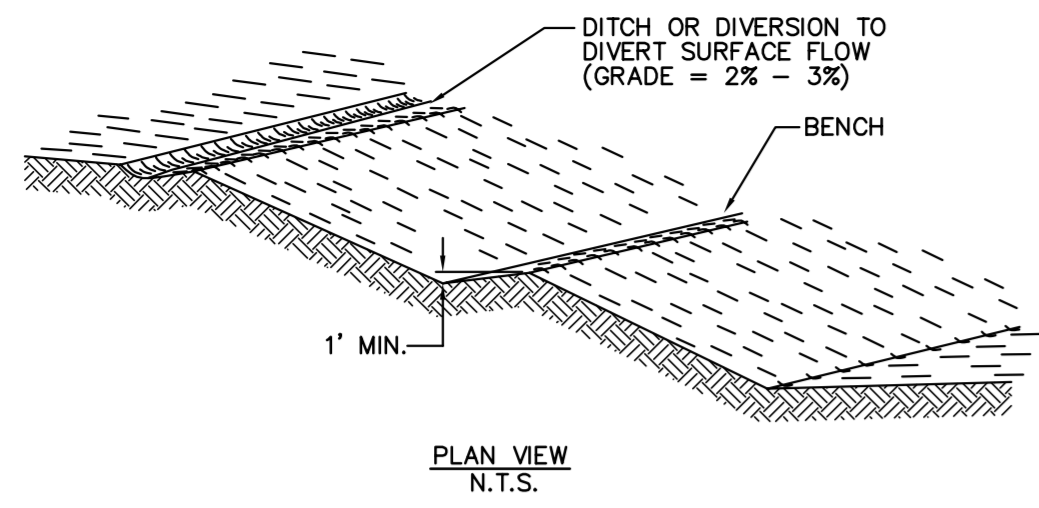
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-013	REV.
										2016		NOTED			0



VHB Vanasse Hangen Brustlin, Inc.

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION DETAILS

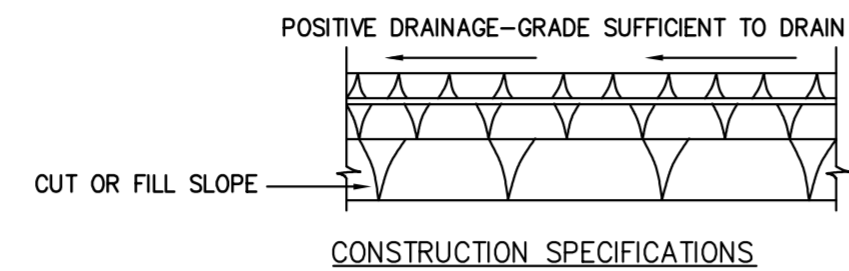
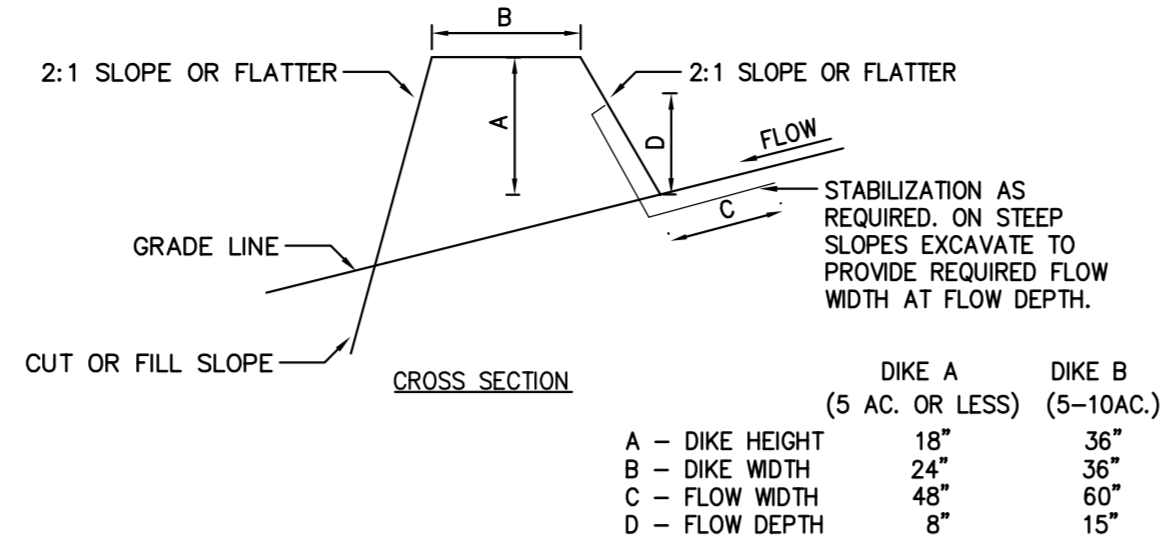




Notes:

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
- THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED FOLLOWING FINISHED GRADING.
- SILT FENCE OR HAY BALES SHALL BE PLACED AT THE OUTLET OF EACH STRUCTURE.

1 Diversion Swale and Bench 12/12
N.T.S. Source: VHB LD_

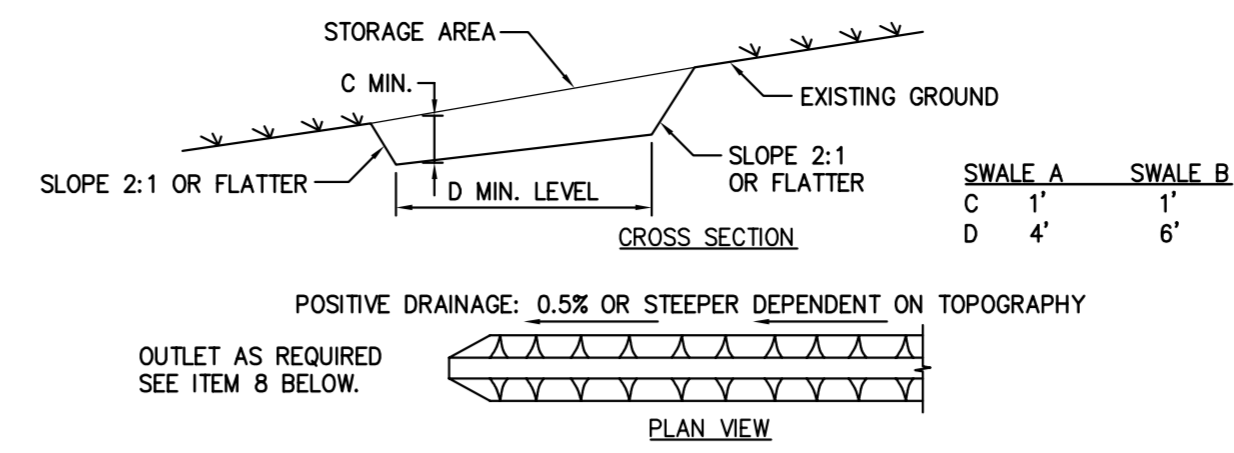


CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR MULCH IF NOT IN SEEDING SEASON, (B) PER THE FOLLOWING CHART

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5%-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1%-5.0%	SEED AND STRAW MULCH	SEED AND COVER USING RECP
3	5.1%-8.0%	SEED AND COVER WITH RECP	LINED WITH 4-8" RIP-RAP OR GEOTEXTILE
4	8.1%-20.0%	LINED WITH 4-8" RIP-RAP	ENGINEERED DESIGN

2 Earth Dike 12/12
N.T.S. Source: VHB / VT S+S EPSC LD_

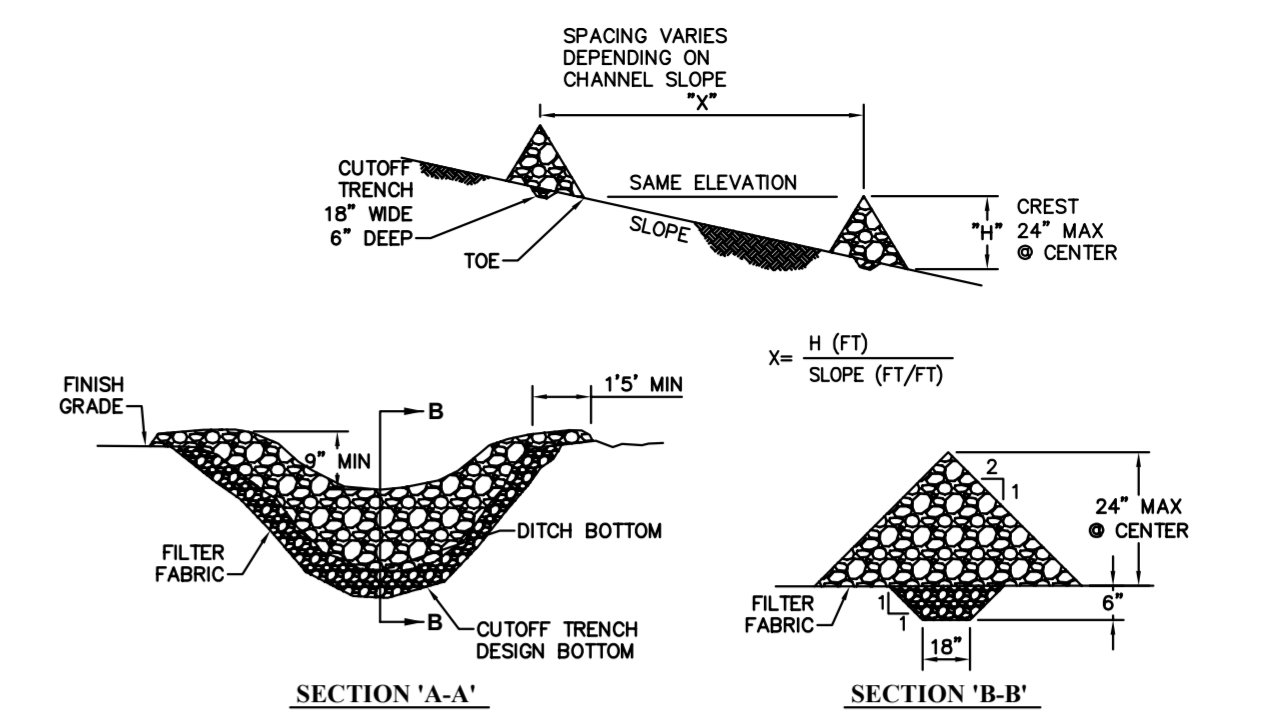


CONSTRUCTION SPECIFICATIONS

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5%-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1%-5.0%	SEED AND STRAW MULCH	SEED AND COVER USING RECP
3	5.1%-8.0%	SEED AND COVER WITH RECP	LINED WITH 4-8" RIP-RAP OR GEOTEXTILE
4	8.1%-20.0%	LINED WITH 4-8" RIP-RAP	ENGINEERED DESIGN

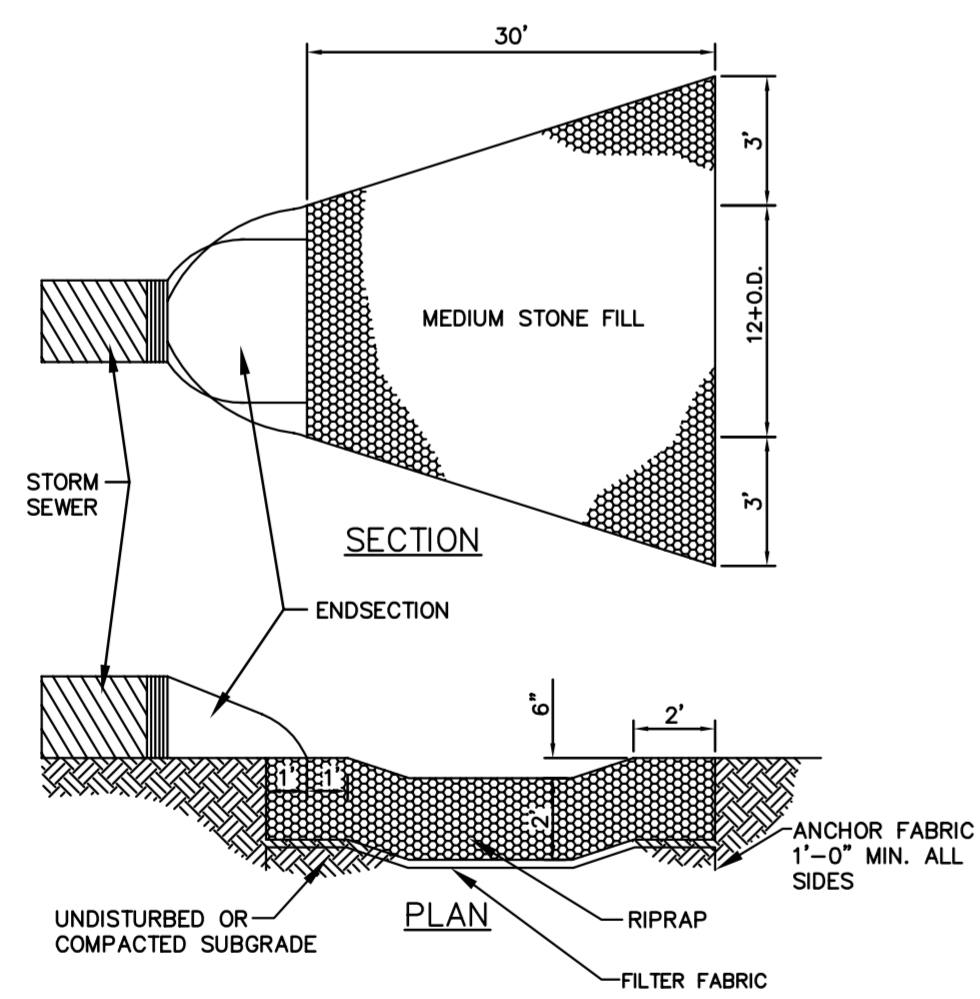
3 Temporary Swale 12/12
N.T.S. Source: VHB / VT S+S EPSC LD_



Notes:

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN USING A WELL GRADED STONE MATRIX 2 TO 9 INCHES IN SIZE.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- MAXIMUM DRAINAGE AREA ABOVE CHECK DAM SHALL NOT EXCEED 2 AC.

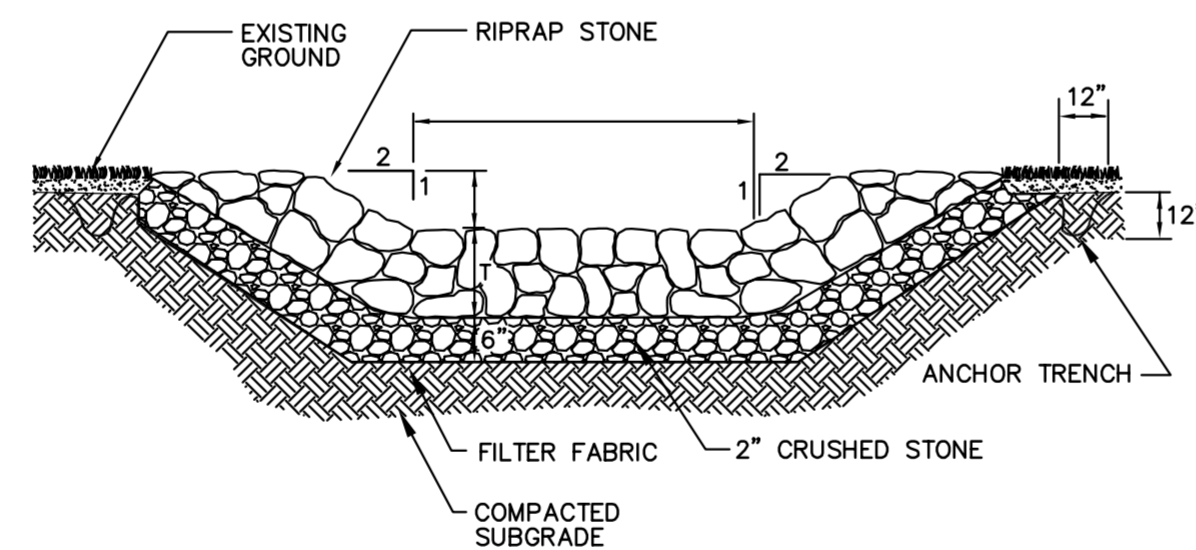
4 Stone Check Dam 12/12
N.T.S. Source: VHB / VT S+S EPSC LD_



Notes:

- OUTLET PROTECTION MAY BE DONE BY USING ROCK RIP-RAP, GROUTED RIP-RAP, OR GABIONS.
- STONE SIZE SHALL BE A WELL GRADED MIXTURE SO THAT 50% OF THE STONE SIZE, BY WEIGHT, SHALL BE LARGER THAN THE #50 SIZE DETERMINED USING THE CHARTS.

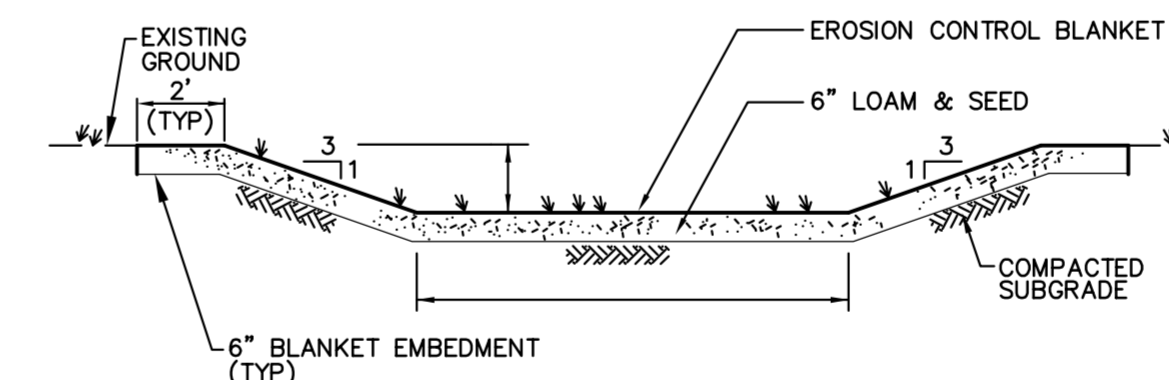
5 Outlet Protection 12/12
N.T.S. Source: CHA LD_



Notes:

- MIN. CAPACITY SHALL CARRY PEAK FLOW RATE DURING 10-YR, 24-HR STORM EVENT.
- MAX SIZE OF RIPRAP STONE SHALL BE:
VEL. (FPS) DMAX (IN.)
5.0 6
8.5 12
10 18
12 24
15 36
- FOUNDATION AREA SHALL BE CLEARED OF TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER OBJECTIONABLE MATERIAL.
- OUTLET STABILIZATION MAY BE NEEDED TO PREVENT EROSION.

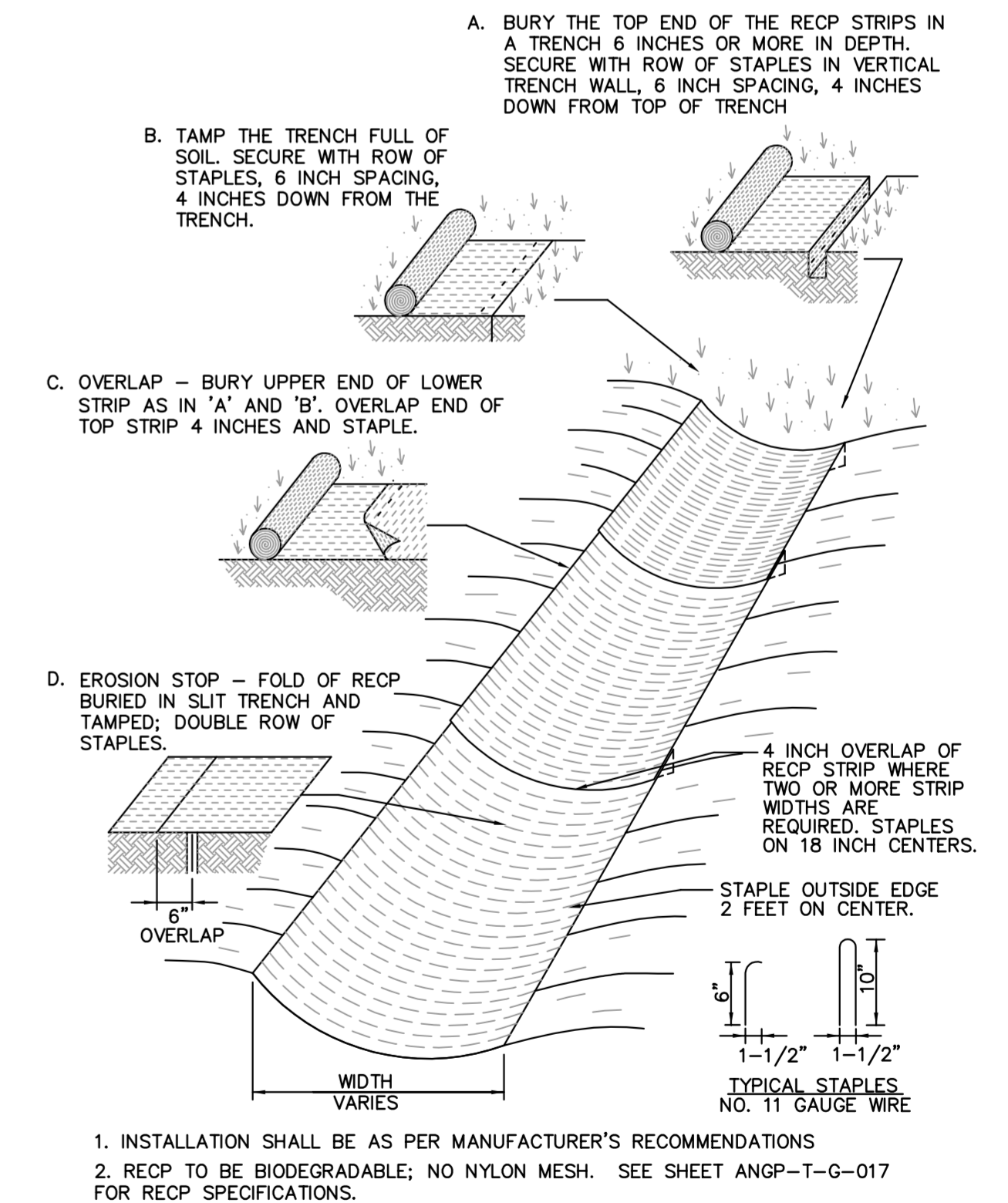
6 Stone-lined Swale 12/12
N.T.S. Source: VHB LD_358



Notes:

- NOT TO BE USED IN AREAS WHERE FLOW VOLUME AND RATES MAY CAUSE EROSION AND SHOULD OTHERWISE BE CONVEYED VIA STONE-LINED SWALE.
- FOUNDATION AREA SHALL BE CLEARED OF TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER OBJECTIONABLE MATERIAL.
- INSTALL TEMPORARY COVER (E.G., MULCH) TO PROTECT AREA WHILE SEED IS GERMINATING.
- SEE SEEDING SPECIFICATIONS FOR SEED TYPES AND SEED APPLICATION RATES.

7 Grassed Swale 12/12
N.T.S. Source: VHB LD_171



8 Rolled Erosion Control Blanket (RECP) - Swale Installation 12/12
N.T.S. Source: VHB



DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	REV.
										2016		NOTED	ANGP-T-G-014	0

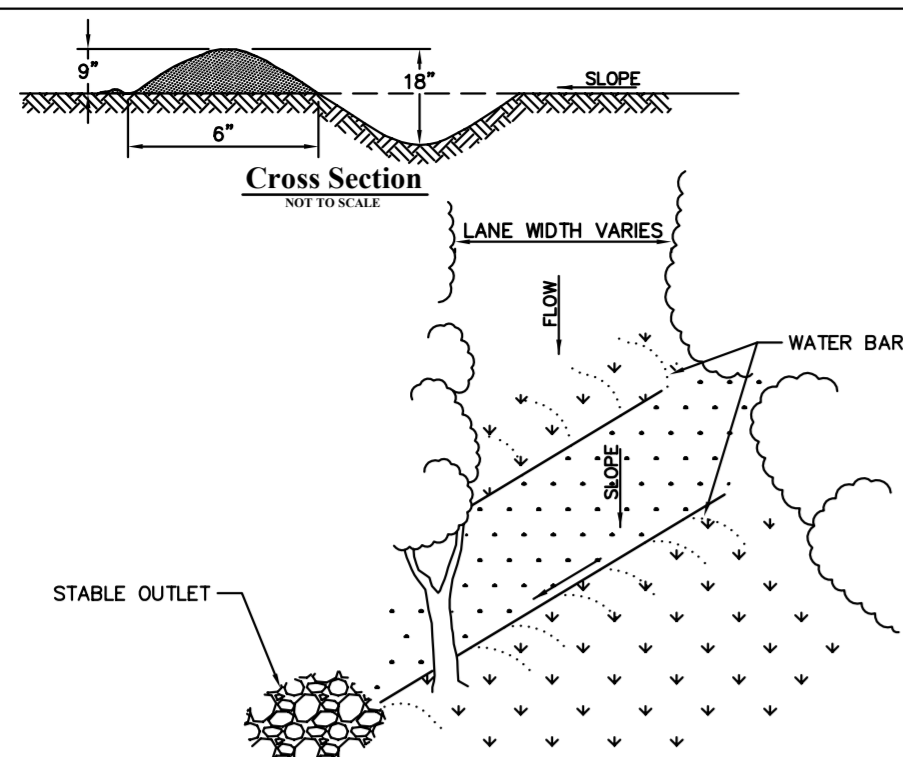
VHB Vanasse Hangen Brustlin, Inc.

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION DETAILS

LOC. CHITTENDEN & ADDISON COUNTIES

YEAR: 2016 W.O. SCALE: NOTED DWG. ANGP-T-G-014 REV. 0

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 795-0372 • www.chacompanies.com



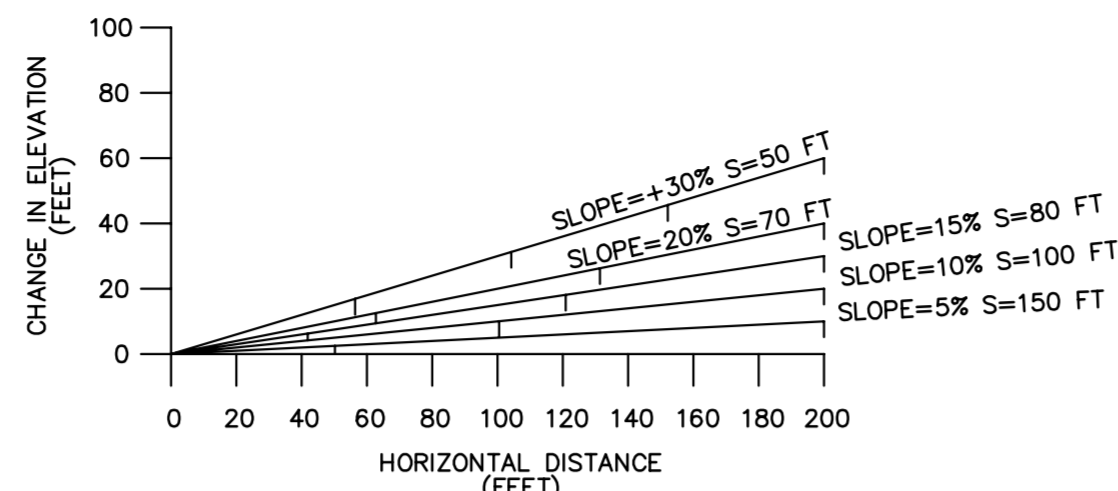
Construction Specifications

- INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
- DISK OR STRIP THE SOIL FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
- TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
- THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
- FOR PERMANENT WATER BARS, VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE SEED AND MULCHED. FOR TEMPORARY WATER BARS, VEHICLE CROSSING SHALL BE COMPACTED AND MAINTAINED PER THESE SPECIFICATIONS. FOLLOWING THEIR USE, WATER BARS SHALL BE REGRADED TO MATCH PRE-CONSTRUCTION CONDITIONS. TOPSOIL SHALL BE RE-APPLIED THEN ALL AREAS OF EXPOSED SOIL SHALL BE FULLY STABILIZED PER THE EPSC PLAN.
- INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

7. SPACING:	SLOPE (%)	SPACING (FT)
	<5	125
	5-10	100
	10-20	75
	20-35	50
	>35	25

1 Water Bars

N.T.S. Source: Vermont Standards and Specs for EPSC 2006 LD_



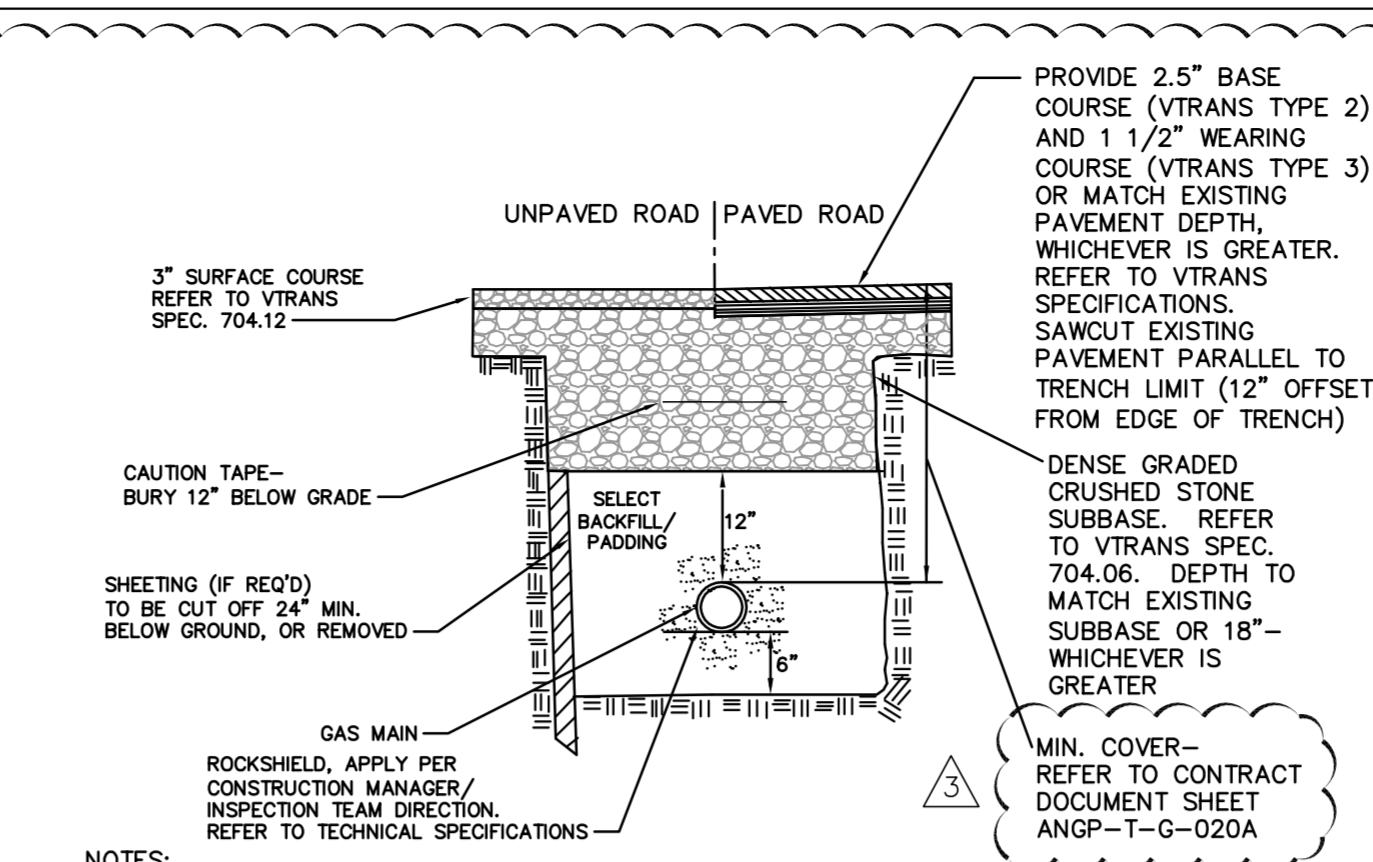
NOTE: S = TRENCH BREAKER SPACING

NOTES:

- PERMANENT TRENCH BREAKER SANDBAGS SHALL NOT BE FILLED WITH TOPSOIL.
- SPACINGS SHOWN ARE RECOMMENDED MINIMUM GUIDELINES. OSPC REPRESENTATIVE MAY ADJUST SPACING IN THE FIELD WITH PRIOR WRITTEN APPROVAL OF OWNER.
- ONE TRENCH BREAKER IS REQUIRED AT ALL STREAM BANKS AND AT WETLAND BOUNDARIES.
- REFER TO SHEETS ANGP-T-G-020B AND 020C FOR APPROXIMATE TRENCH BREAKER LOCATIONS.

2 Permanent Trench Break Spacing Guideline

N.T.S. Source: CHA LD_



NOTES:

- REFER TO TECHNICAL SPECIFICATIONS FOR BOTH GENERAL AND SELECT/PADDING BACKFILL REQUIREMENTS.
- IN RESOURCE AREAS (E.G. WETLANDS AND PAS AREAS) GENERAL BACKFILL SHALL BE NATIVE MATERIAL TO MATCH PROFILE DEPTH OF ADJACENT NATIVE, UNDISTURBED SUBSOIL/SURFACE SOIL INTERFACE. EXCESS SUBSOIL TO BE PROPERLY DISPOSED OF AND STABILIZED.
- THE OWNER SHALL PROVIDE TESTING SERVICES TO INSURE THAT THE IN-PLACE DENSITY OF THE BACKFILL MEETS REQUIREMENTS DETERMINED IN THE SPECIFICATIONS.
- ALL TRENCH CONSTRUCTION SHALL CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- FOR PIPE SUPPORT METHODS AND OTHER PIPE-IN-TRENCH REQUIREMENTS, REFER TO TECHNICAL SPECIFICATIONS.

3 Typical Trench Detail-Roadways and Driveways

N.T.S. Source: CHA LD_

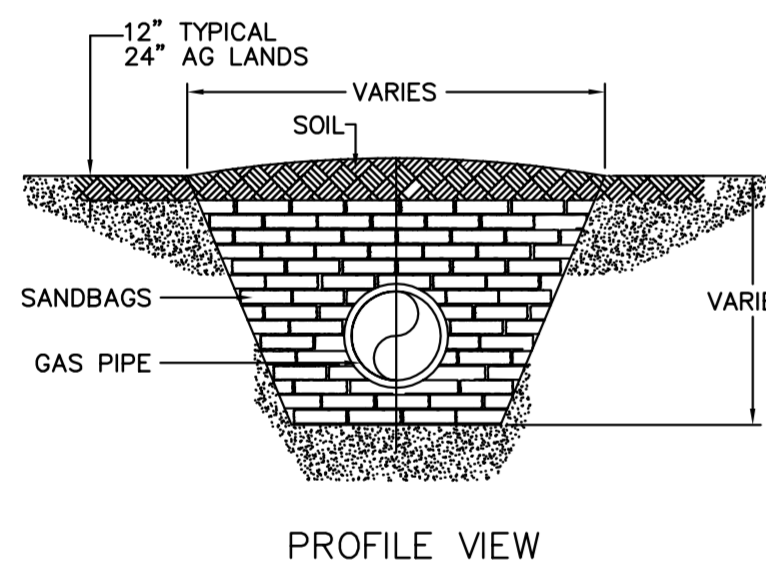
CHA PLAN SHEET #	TOWN	PROJECT COMPONENT	PLANT ID CODE	STATE RANK	MATTING LOCATIONS (STATION)
ANGP-EPSC-014	WILLISTON	TRANSMISSION (ACCESS ROAD)	2012-RTE-CT-03 1	S2/S3	366+50 TO 368+75 AND ON ACCESS ROAD
ANGP-EPSC-022	WILLISTON	TRANSMISSION	2012-RTE-CT-08 4	S2/S3	562+50 TO 563+75
ANGP-EPSC-039	HINESBURG	TRANSMISSION	2012-RTE-CT-08 0	S2/S3	892+80 TO 893+50
ANGP-EPSC-039	HINESBURG	TRANSMISSION	2012-RTE-CT-08 1	S2/S3	1001+20 TO 1002+20
ANGP-EPSC-039	HINESBURG	TRANSMISSION	2012-RTE-CT-08 2	S2/S3	1003+50 TO 1005+80
ANGP-EPSC-040	HINESBURG	TRANSMISSION	2012-RTE-CT-04 1	S2/S3	1021+20 TO 1023+00
ANGP-EPSC-051	MONKTON	TRANSMISSION	2012-RTE-ACT-0 83	S2/S3	1302+10 TO 1307+90
ANGP-EPSC-066	NEW HAVEN	TRANSMISSION	2012-RTE-CT-05 1	S2/S3	1649+50 TO 1652+00
ANGP-EPSC-066	NEW HAVEN	TRANSMISSION	2012-RTE-CT-06 1	S2/S3	1665+50
ANGP-EPSC-066	NEW HAVEN	TRANSMISSION	2012-RTE-AT-05 3	S1	1659+60
ANGP-EPSC-066	NEW HAVEN	TRANSMISSION	2012-RTE-LV-05 4	S2	1659+60
ANGP-EPSC-066	NEW HAVEN	TRANSMISSION	2012-RTE-AT-06 3	S1	1669+70 TO 1670+50
ANGP-EPSC-075, 079, 077	NEW HAVEN	TRANSMISSION	2012-RTE-CT-06 9	S2/S3	1918+00 TO 1966+50
ANGP-EPSC-V011	FERRISBURGH	DISTRIBUTION MAIN	2012-RTE-CT-06 8	S2/S3	118+80 TO 119+10

Notes:

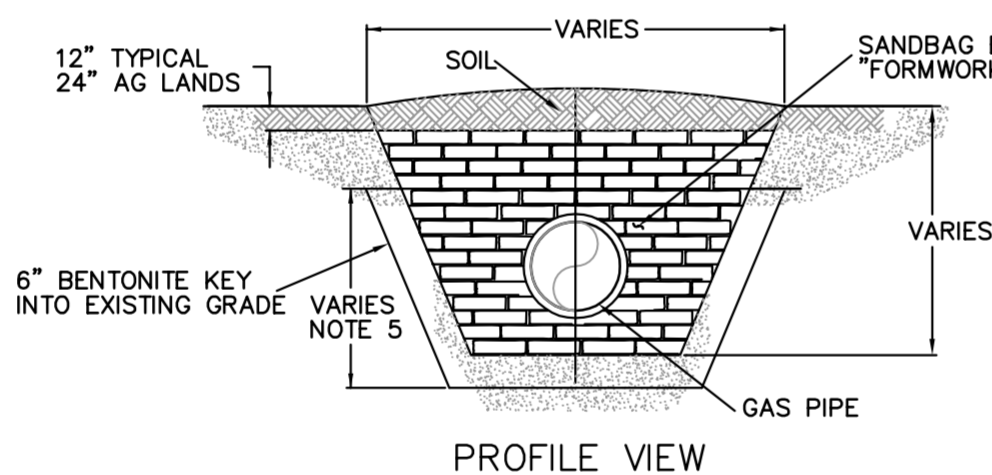
- INSTALL CONSTRUCTION MATS ON STATION LOCATIONS LISTED IN TABLE TO PROTECT RARE PLANT SPECIES.
- LIMIT DURATION OF MATTING DURING GROWING SEASON TO EXTENT PRACTICABLE.
- REMOVE MATTING IMMEDIATELY FOLLOWING THEIR USE. FOR EXAMPLE, WHERE MATTING IS USED FOR TEMPORARY STOCKPILING OF SOIL FROM TRENCHING OPERATIONS, REMOVE MATTING IMMEDIATELY FOLLOWING BACKFILL OPERATIONS.
- AT A MINIMUM, MATTING IS NOT TO BE LEFT IN PLACE FOR MORE THAN 28 DAYS WHERE FEASIBLE.
- REFER TO ADDITIONAL ENVIRONMENTAL NOTE 12 ON SHEET ANGP-T-G-011

4 RTE Matting Table

N.T.S. Source: VHB 09/13



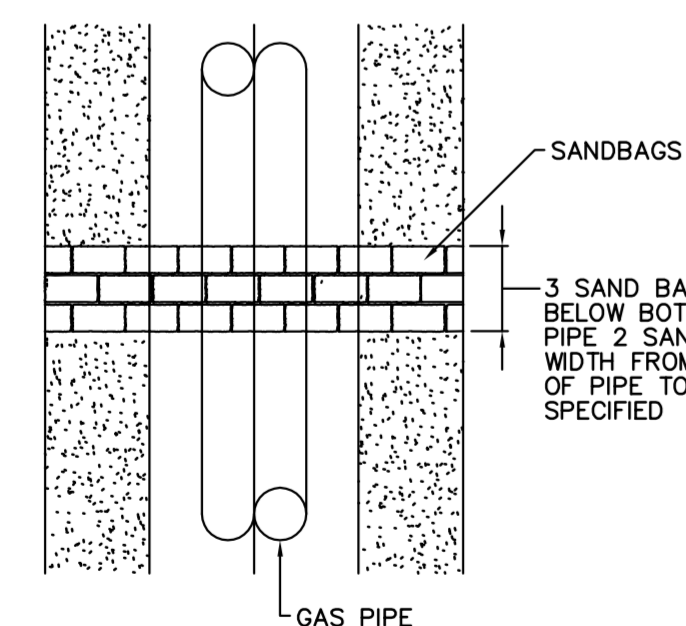
PROFILE VIEW



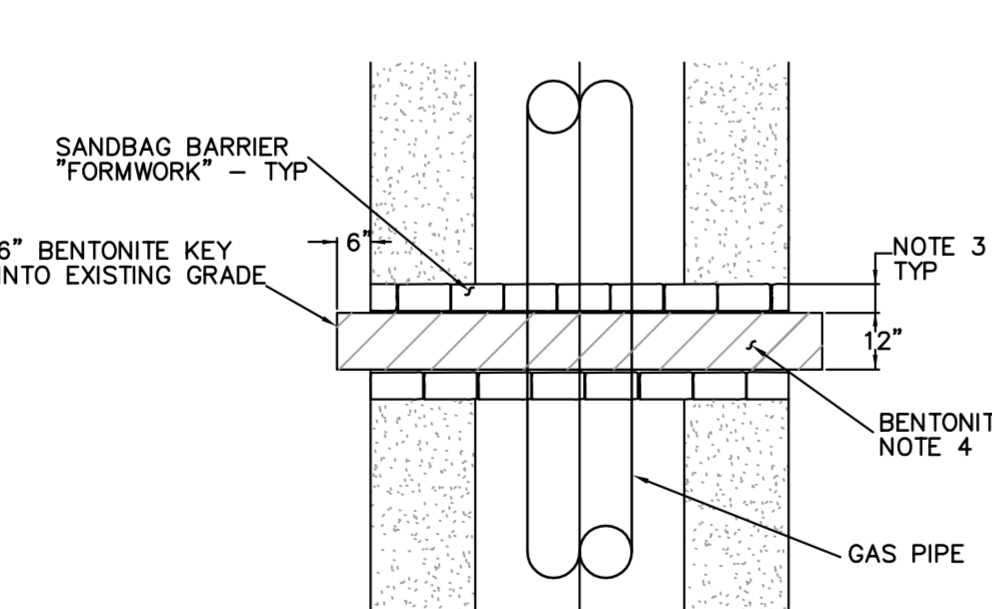
PROFILE VIEW

NOTES:

- PERMANENT TRENCH BREAKER WITH BENTONITE SEAL IS INTENDED TO PROHIBIT WATER FLOW THROUGH THE BREAKER.
- PERMANENT TRENCH BREAKER WITH BENTONITE SEAL TO BE INSTALLED AT EDGE OF WETLANDS AND STREAMS.
- SAND BAG BARRIER WIDTH SHALL BE MINIMUM 1 BAG WIDE AND/OR AS FIELD DETERMINED TO PROVIDE STABILITY.
- BENTONITE IS TO BE INSTALLED IN THE VOID SPACE BETWEEN THE SANDBAG BARRIER "FORMWORK" IN SUCH A MANNER TO COMPLETELY SURROUND THE PIPE AND FILL THE VOID FROM THE BOTTOM OF THE TRENCH TO A HEIGHT 6" ABOVE THE LEVEL OF IMPORTED PADDING MATERIAL WHICH IS INSTALLED ON THE EXTERIOR SIDE OF THE SANDBAG BARRIER IN THE WETLAND ZONE.
- AFTER BENTONITE PLACEMENT, INSTALL SAND BAGS ON TOP OF THE PERMANENT TRENCH BREAKER AND BENTONITE SEAL TO THE REQUIRED HEIGHT PER DETAIL 2 AND BACKFILL EXTERIOR SIDES OF SAND BAG BARRIERS.



PLAN VIEW SAND BAG TRENCH BREAKER



PLAN VIEW TRENCH BREAKER WITH BENTONITE

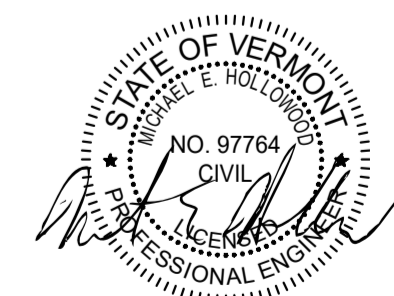
5 Permanent Trench Break or Sandbags

N.T.S. Source: CHA LD_

6 Typical Trench Detail-Cross Country

N.T.S. Source: CHA LD_

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: NOTED	DWG. ANGP-T-G-015	REV. 3
		3	GJM	BCK	IFC 2016 EDITS (05/2016)									
		2	BCK	TDB	TRENCH DETAIL UPDATE (1/6/16)									
		1	BCK	TDB	DEPTH OF COVER UPDATE (6/11/15)									



VHB Vanasse Hangen Brustlin, Inc.

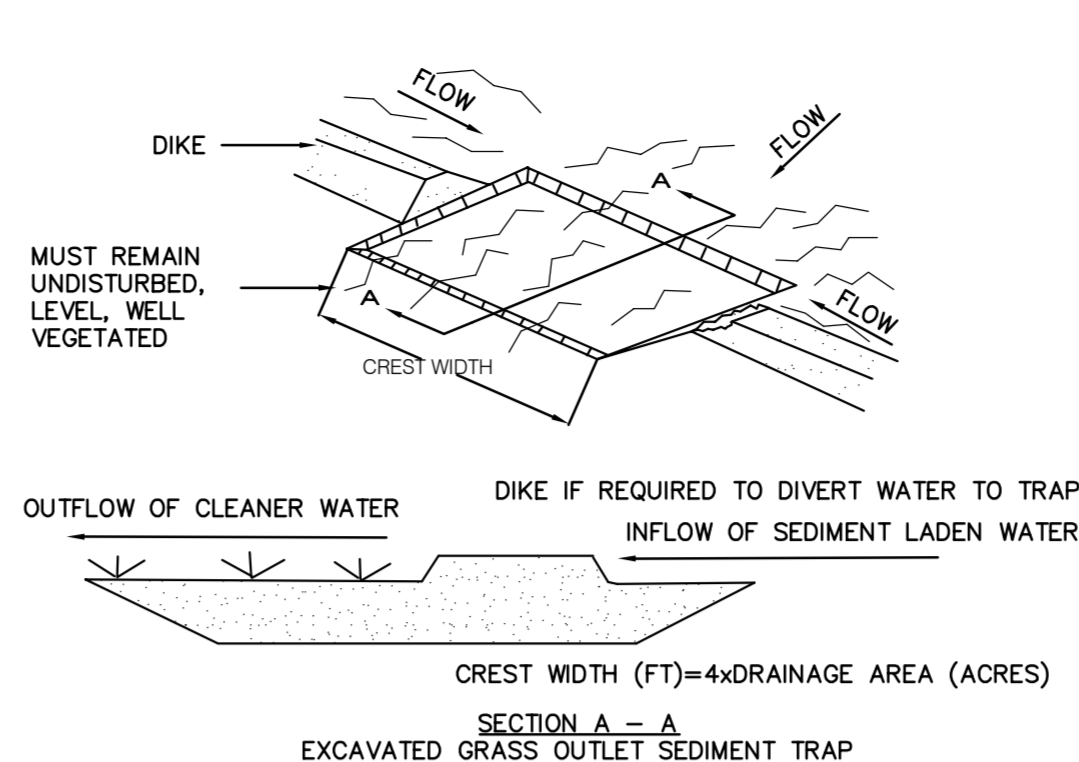
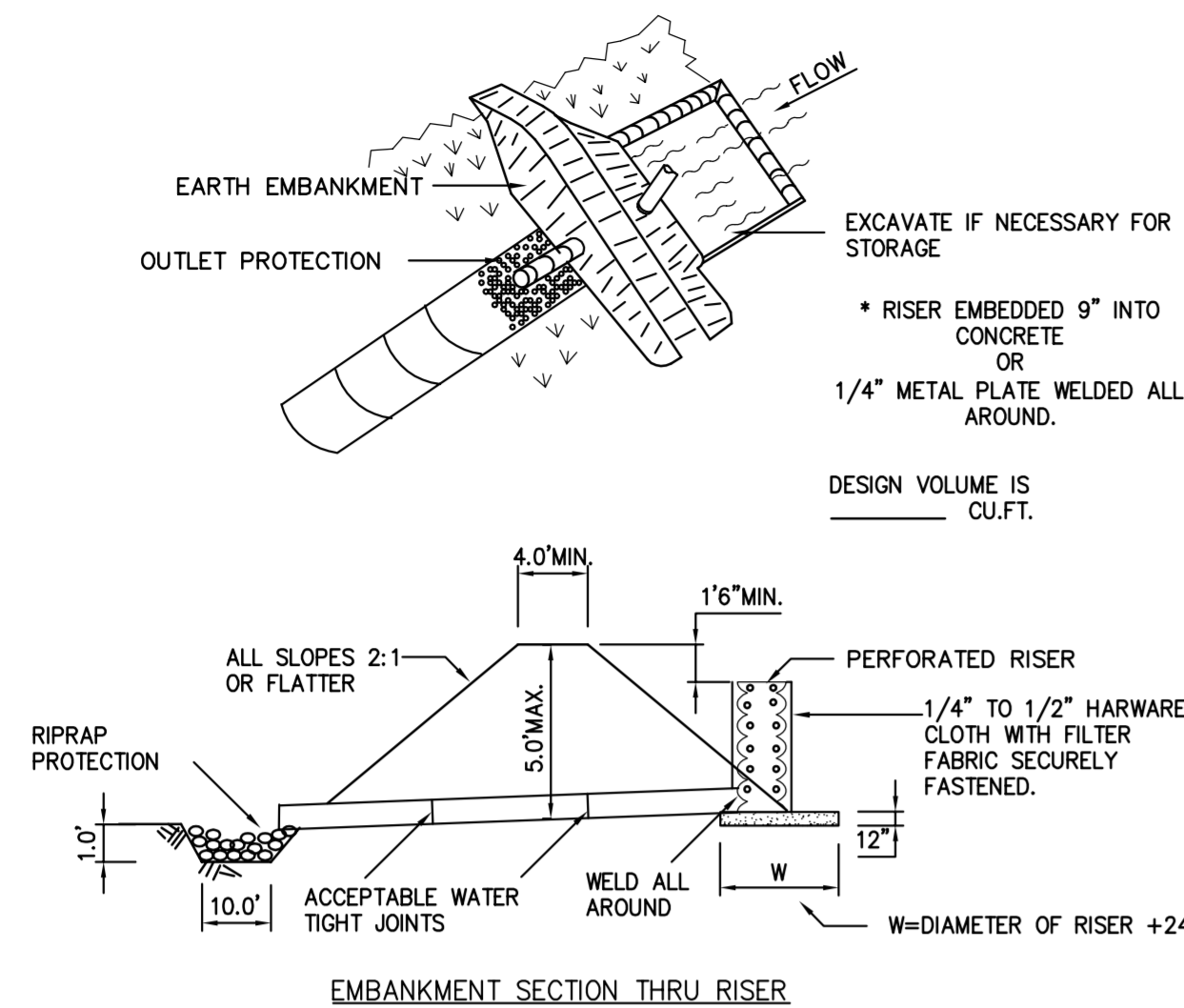


ENVIRONMENTAL		DRAFTING DESIGNER		DRAFTING SUPERVISOR		DESIGN ENGINEER		DESIGN MANAGER	
JLS	06/28/13	GIL	06/28/13	BZD	06/28/13	MDF	06/28/13	SAB	06/28/13
JLS	05/2016	GJM	05/2016	BCK	05/2016	GEW	05/2016	JEO	05/2016

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION DETAILS

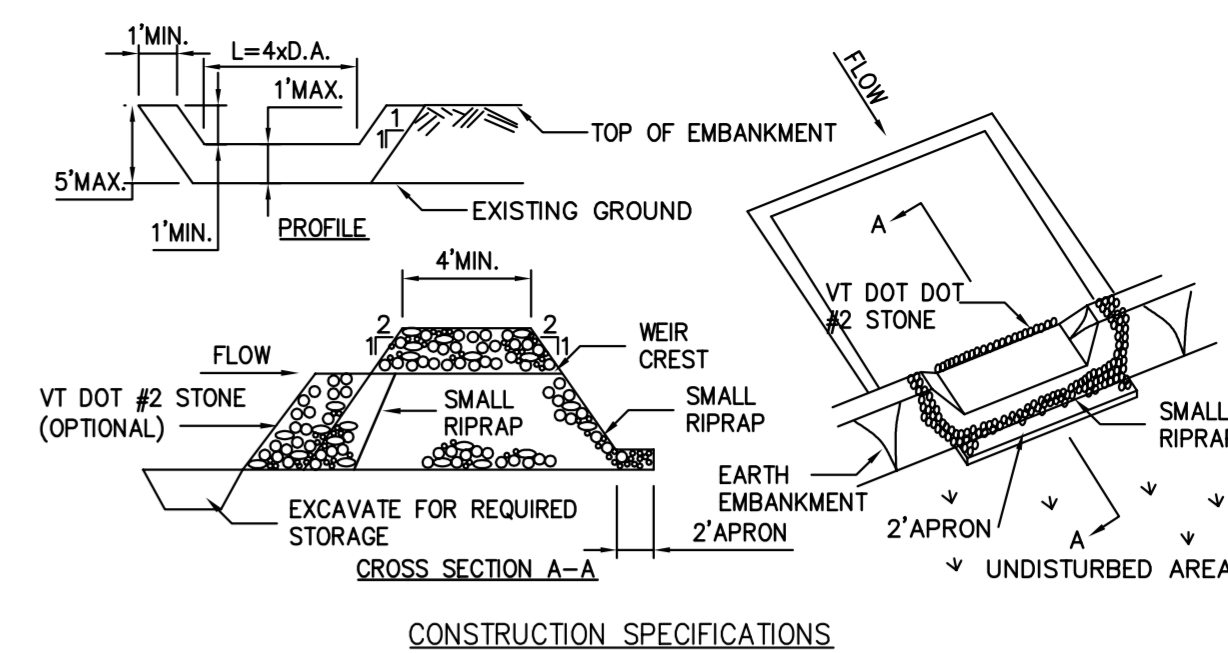
CONSTRUCTION SPECIFICATIONS

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
- THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CUT SLOPES SHALL BE 2:1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER.
- ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
- THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
- THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40-80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER-LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
- STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
- FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN FOUR (4) INCH LAYERS. A MINIMUM OF TWO (2) FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. FOR CONCRETE BASE THE DEPTH SHALL BE TWELVE (12) INCHES WITH THE RISER EMBEDDED NINE (9) INCHES. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION AND THEN PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.



CONSTRUCTION SPECIFICATIONS

- VOLUME OF SEDIMENT STORAGE SHALL BE 1800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE AREA.
- MINIMUM CREST WIDTH SHALL BE 4 x DRAINAGE AREA
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
- THE SEDIMENT TRAP SHALL BE REMOVED AND AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.
MAXIMUM DRAINAGE AREA: 5 ACRES



CONSTRUCTION SPECIFICATIONS

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4\"/>

1 Pipe Outlet Sediment Trap

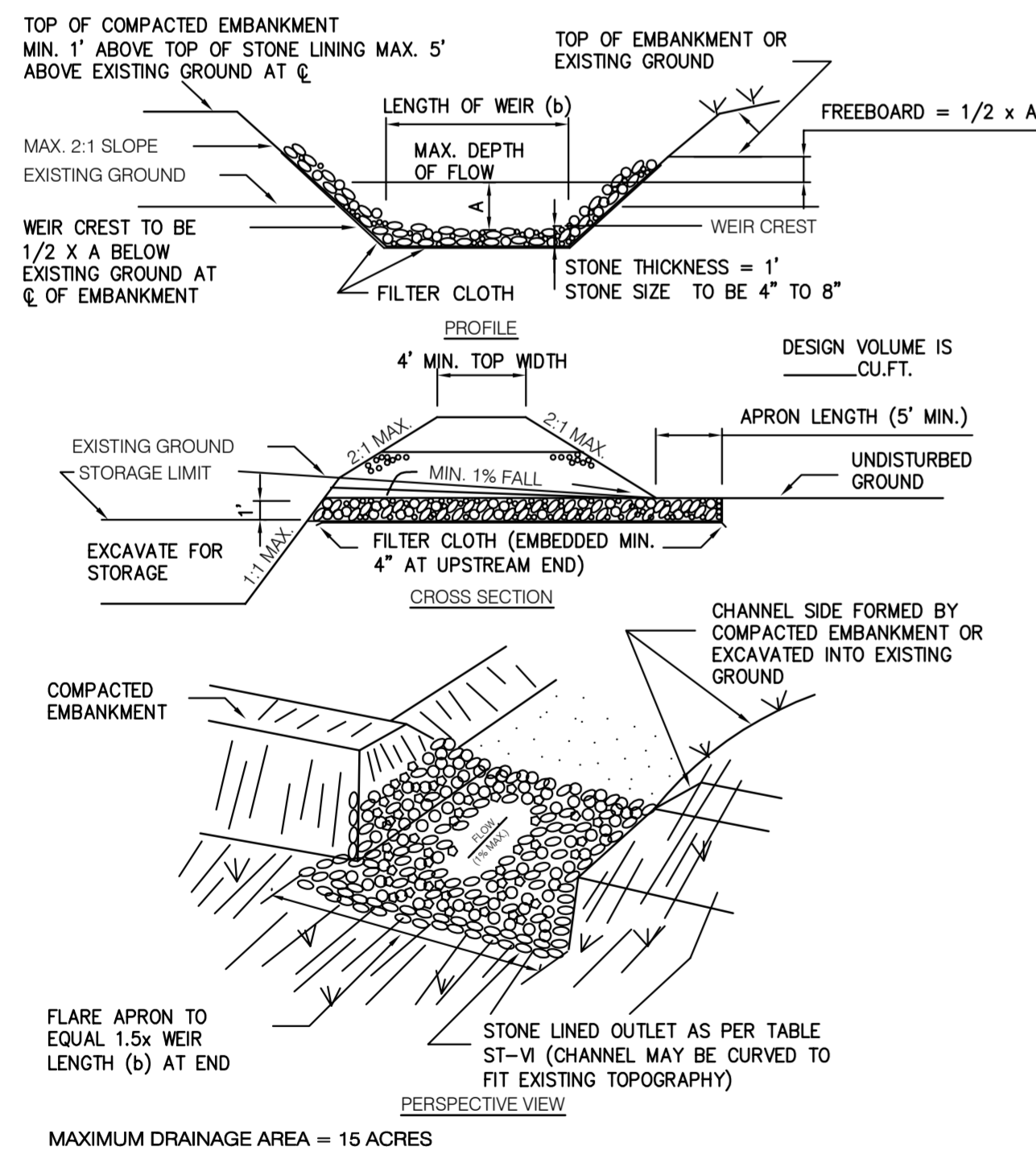
N.T.S. Source: VHB / VT S+S EPSC 12/12 LD...

2 Grass Outlet Sediment Trap

N.T.S. Source: VHB / VT S+S EPSC 12/12 LD...

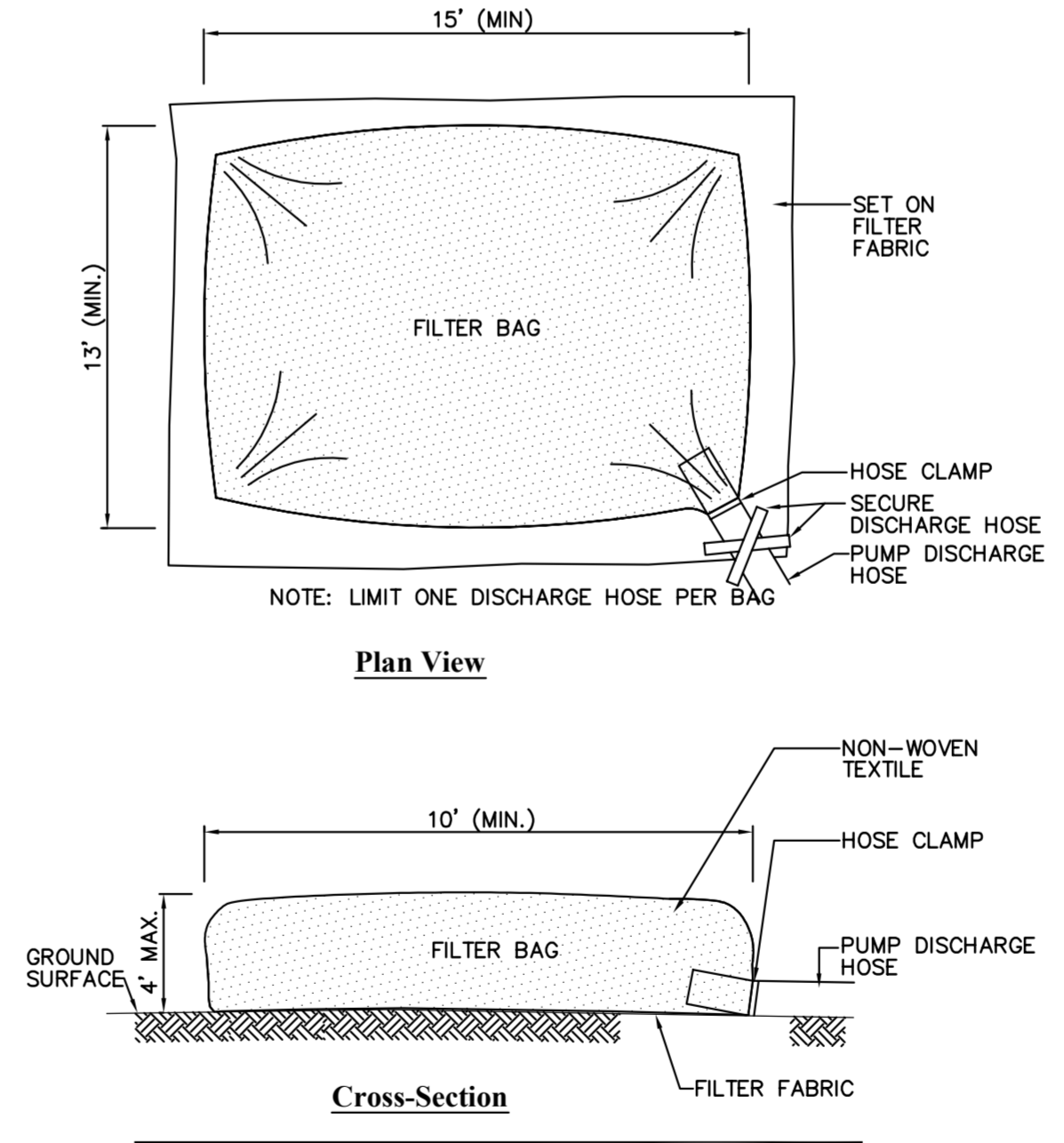
3 Stone Outlet Sediment Trap

N.T.S. Source: VHB / VT S+S EPSC 12/12 LD...

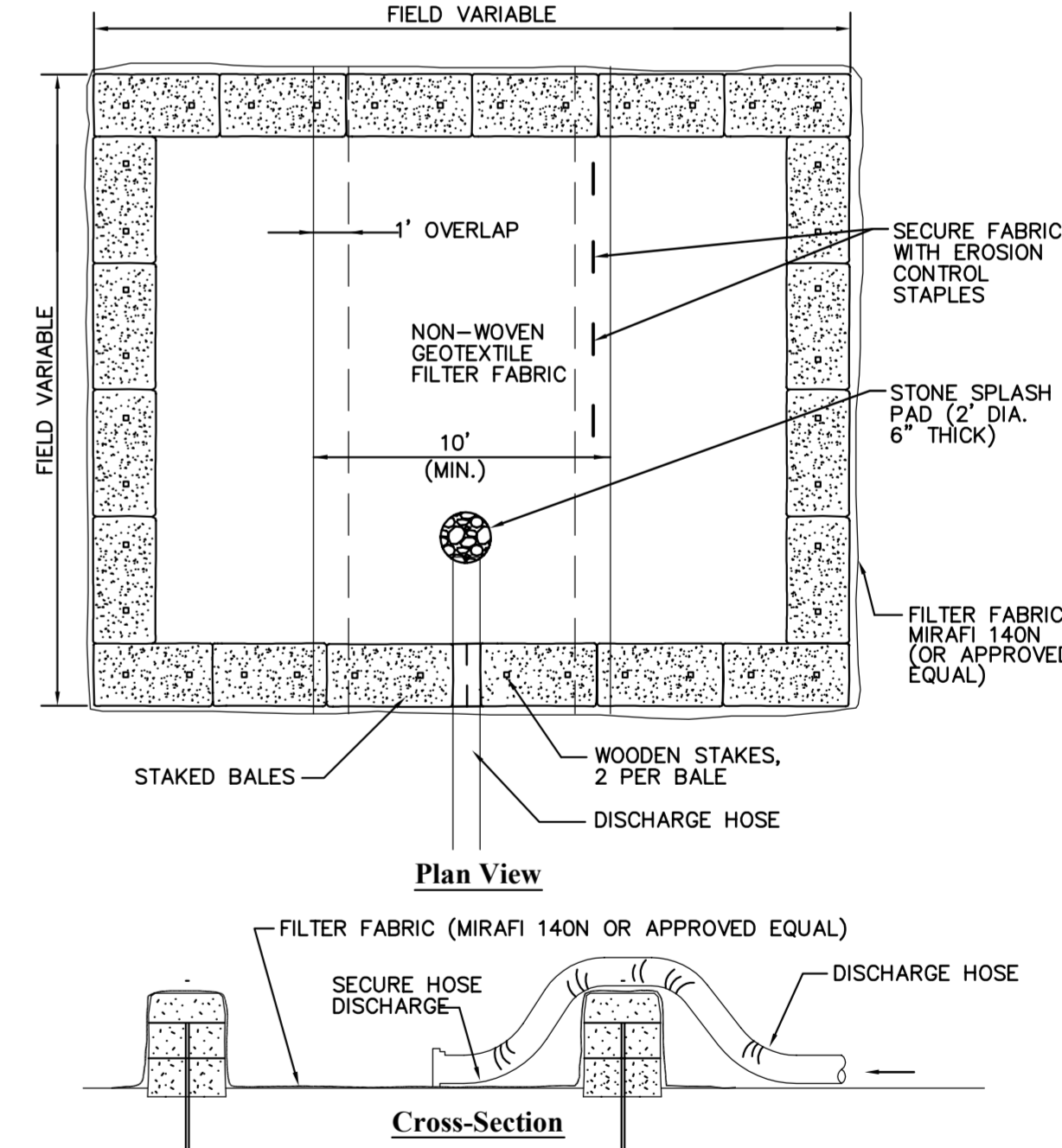


CONSTRUCTION SPECIFICATIONS

- THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET, MEASURED AT CENTERLINE OF EMBANKMENT.
- ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER.
- ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF EMBANKMENT.
- STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL WEIR CREST.
- FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNEL.
- STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCH RIPRAP. TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES OR LESS.



- Notes:
- BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - MUST BE PLACED MIN. OF 50' FROM WETLAND OR STREAM ON STONE PAD. INSTALL DOWNGRADIENT OF BMPs INCLUDING SILT FENCE OR COMPOST LOGS AS NECESSARY.
 - INSPECT AND MAINTAIN BAG AS NECESSARY. EXPOSE OF ACCUMULATED SEDIMENT IN AN UPLAND AREA > 50' FROM WETLAND OR STREAM. STABILIZE, SEED, AND MULCH IMMEDIATELY.



- Notes:
- NUMBERS OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
 - BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
 - MUST BE PLACED MIN OF 50' FROM WETLAND OR STREAM, PREFERABLY IN A VEGETATED AREA.

4 Riprap Outlet Sediment Trap

N.T.S. Source: VHB / VT S+S EPSC 12/12 LD...

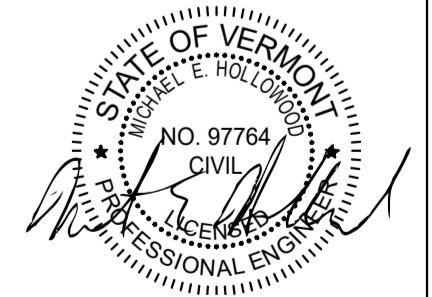
5 Dewatering Filter Bag

N.T.S. Source: VHB 12/12 LD...

6 Dewatering Straw Bale Basin

N.T.S. Source: VHB 12/12 LD...

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT CONSTRUCTION DETAILS			
YEAR: 2016	W.O.	SCALE: NOTED	DWG. ANGP-T-G-016	REV. 0	INITIALS	DATE	INITIALS	DATE			
					ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016		
					DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016		
					DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016		
					DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016		
					DESIGN MANAGER	SAB	06/28/13	JEO	05/2016		

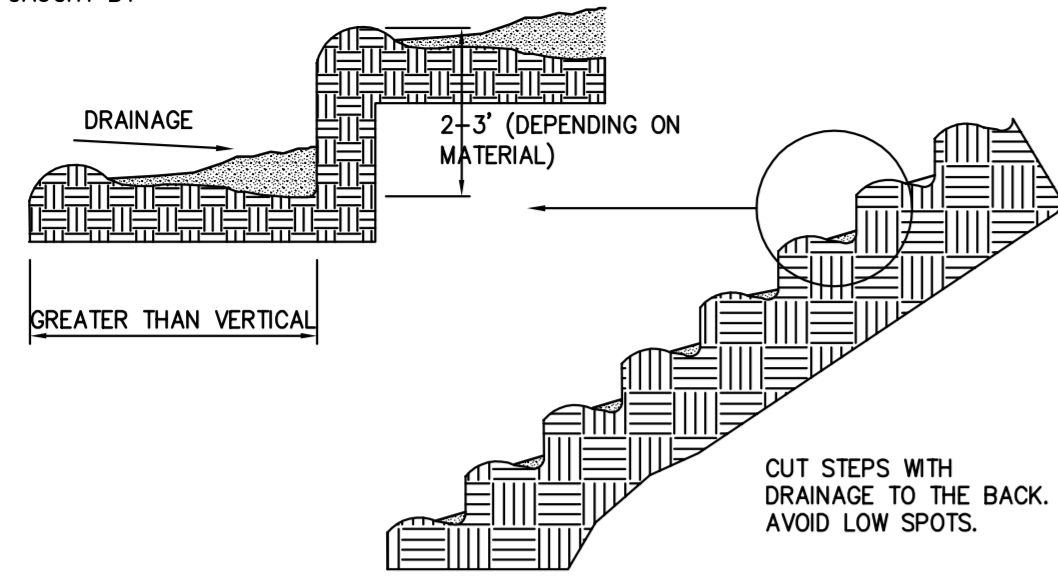


VHB Vanasse Hangen Brustlin, Inc.

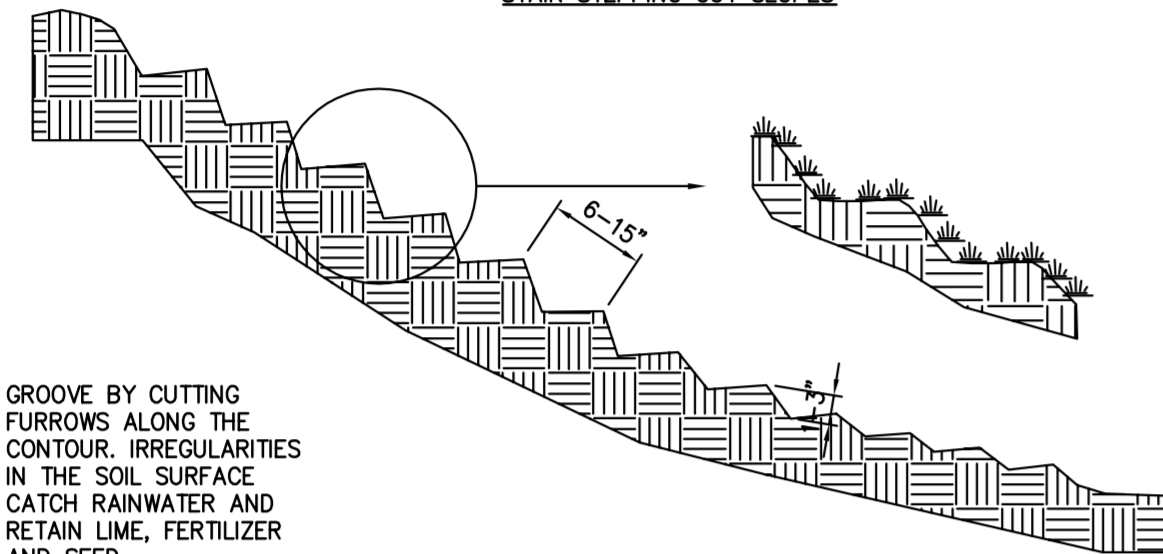
VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION DETAILS

LOC. CHITTENDEN & ADDISON COUNTIES
YEAR: 2016 W.O. SCALE: NOTED DWG. ANGP-T-G-016 REV. 0

DEBRIS FROM SLOPE ABOVE IS CAUGHT BY STEPS



STAIR STEPPING CUT SLOPES



GROOVING SLOPES

MULCH MATERIAL AND APPLICATION				
MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ.-FT.	PER ACRE	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 - 900 LBS	10 - 20 TONS	2" - 7"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS	N/A
GRAVEL CRUSHED STONE OR SLAG	WASHED; SIZE 2B OR 3A - 1 1/2"	9 CY	405 CY	3"
HAY OR STRAW	AIR-DRIED; FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 - 100 LBS, 2-3 BALES	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3 - 9 CY	3 - 9 CY	1-3"
Erosion Control Mix	WELL-GRADED MIXTURE OF PARTICLE SIZES, ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT. PARTICLE SIZE SHALL PASS 6" SCREEN (100%)	*Slopes 3(Hz.):1(Vert.) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. **Slopes between 3(Hz.):1(Vert.) and 2(Hz.):1(Vert.) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slopes steeper than 2(Hz.):1(Vert.) applicability to specific site and mulch depth to be reviewed and approved prior to use by OPSC or EPSC Specialist		

Notes:

1. APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
2. MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES. (SEEDS OR SEEDLINGS)
3. TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.
4. OTHER THAN EROSION CONTROL MIX, MULCH IS NOT TO BE INSTALLED ON SLOPES > 3:1.

TEMPORARY SEEDING

1. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE.
2. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
3. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
4. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
5. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.

PERMANENT SEEDING

1. SEE SEEDING SPECIFICATIONS FOR RECOMMENDED SEED MIXES. USE RIPARIAN AND WETLAND SEEDING MIX WITHIN 50 FEET OF STREAM CROSSINGS AND IN DISTURBED WETLAND AREAS. USE UPLAND NATURAL COMMUNITY MIX WITHIN AREAS IDENTIFIED AS SIGNIFICANT NATURAL COMMUNITIES. USE PERMANENT SEEDING MIX FOR ALL OTHER DISTURBED/UPLAND AREAS. SEE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR ADDITIONAL SEED MIXTURES.
2. AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE; CHISELING OR DISKING MAY BE NEEDED IF SOIL IS COMPACTED.
3. SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
4. PERMANENT SEEDING TO OCCUR PRIOR TO SEPTEMBER 15TH UNLESS WEATHER PERMITS SEEDING BEYOND SEPTEMBER 15TH.
5. AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
6. MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
7. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.
8. IRRIGATION MAY BE NEEDED TO FACILITATE GRASS GROWTH AND ESTABLISH ADEQUATE GRASS COVER.

TEMPORARY SEEDING MIX		
TYPE	SEASON	RATE (LBS./ACRE)
RYEGRASS (ANNUAL OR PERENNIAL)	APRIL 15 - SEPTEMBER 15	20
"AROSTOOK" WINTER RYE	SEPTEMBER 15 - APRIL 15	90

PERMANENT SEEDING MIX*		
TYPE	SEASON	RATE (LBS./ACRE)
BIRDSFOOT TREFLOID(1)**	APRIL 15 - SEPTEMBER 15	5
COMMON WHITE CLOVER (1)**	APRIL 15 - SEPTEMBER 15	8
TALL FESCUE (2)	APRIL 15 - SEPTEMBER 15	10
REDTOP (3)	APRIL 15 - SEPTEMBER 15	2
RYEGRASS (PERENNIAL) (3)	APRIL 15 - SEPTEMBER 15	5

*PERMANENT SEEDING MIX IS A COMBINATION OF BIRDSFOOT TREFLOID OR COMMON WHITE CLOVER PLUS TALL FESCUE PLUS REDTOP OR RYEGRASS (PERENNIAL). I.E. PERMANENT SEEDING MIX = (1) + (2) + (3). (SEE PAGE 4.27 OF THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.)
** ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING

RIPARIAN AND WETLAND SEEDING MIX		
TYPE	SEASON	RATE (LBS./ACRE)
"WET MEADOW AND DETENTION BASIN" OR APPROVED EQUAL	APRIL 15 - SEPTEMBER 15	35

*SEED SPECIFIED IS FROM VERMONT WETLAND PLANT SUPPLY AND COMPOSED OF THE FOLLOWING SPECIES: PANICUM VIRGATUM, ELYMUS VIRGINICUS, FESTUCA RUBRA, SCHIZACHYRIUM SCOPARIUM, ANDROPOGON GERARDII, PANICUM CLANDESTINUM, SORGHASTRUM NUTANS, ASCLEPIA SYRIACA, VERBENA HASTATA, EUPATORIUM FISTULOSUM, EUTHAMIA GRAMINIFOLIA, SOLIDAGO JUNCEA, SYMPHYOTRICHUM NOVAE-ANGLIAE
NOTE: SEE MIX SHOULD EXCLUDE BOTH CHAMAECRISTA FASCICULATA AND HELIOPSIS HELIANTHOIDES, WHICH ARE BOTH COMMONLY INCLUDED IN THIS COMMERCIAL MIX.

UPLAND NATURAL COMMUNITY MIX		
TYPE	SEASON	RATE (LBS./ACRE)
"VERMONT CONSERVATION AND WILDLIFE" OR APPROVED EQUIVALENT	APRIL 15 - SEPTEMBER 15	25

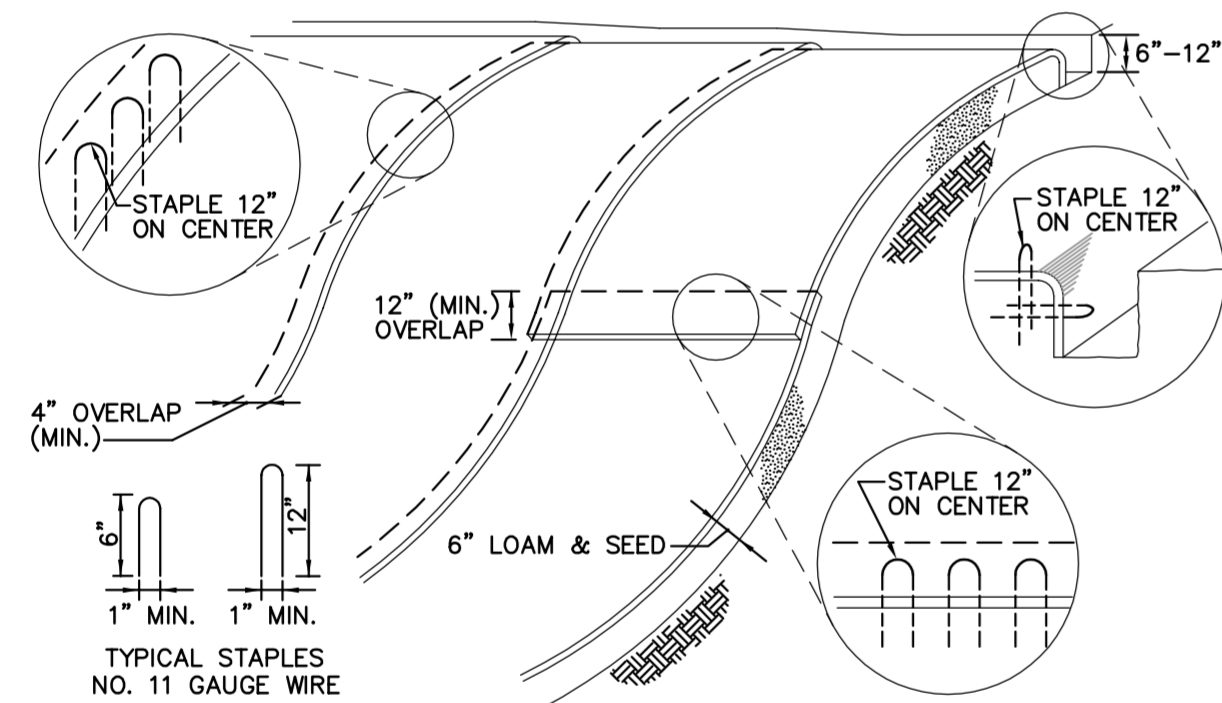
*SEED SPECIFIED IS, IN PART, FROM VERMONT WETLAND PLANT SUPPLY AND COMPOSED OF THE FOLLOWING SPECIES: ELYMUS VIRGINICUS, FESTUCA RUBRA, SCHIZACHYRIUM SCOPARIUM, ANDROPOGON GERARDII, PANICUM CLANDESTINUM, SORGHASTRUM NUTANS, ASCLEPIA SYRIACA, VERBENA HASTATA, EUPATORIUM FISTULOSUM, EUTHAMIA GRAMINIFOLIA, SOLIDAGO JUNCEA, SYMPHYOTRICHUM NOVAE-ANGLIAE
NOTE: SEE MIX SHOULD EXCLUDE BOTH CHAMAECRISTA FASCICULATA AND HELIOPSIS HELIANTHOIDES, WHICH ARE BOTH COMMONLY INCLUDED IN THIS COMMERCIAL MIX.

1 Surface Roughening 12/12
N.T.S. Source: VHB LD_

2 Mulch Table 12/12
N.T.S. Source: VHB LD_

3 Seeding Notes 12/12
N.T.S. Source: VHB LD_

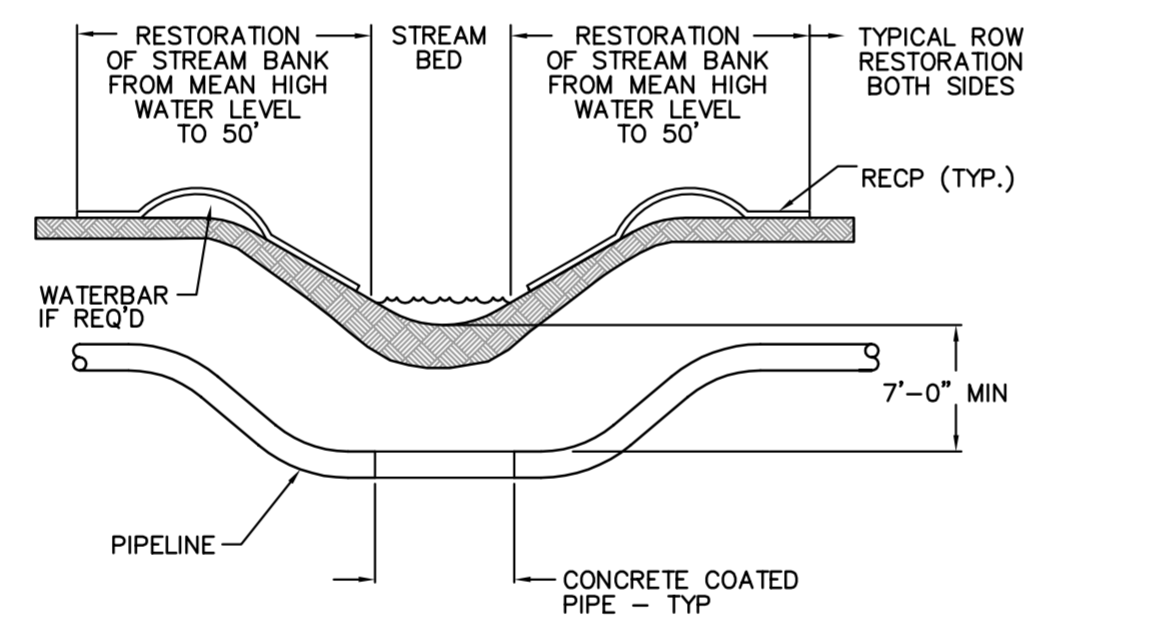
4 Seeding Specifications 06/13
N.T.S. Source: VHB LD_



Notes:

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY TOP SOIL, FERTILIZER, LIME AND SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'x225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'x150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION PREVENTION AND SEDIMENT CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE, DO NOT STRETCH AND ENSURE CLOSE CONTACT WITH THE GROUND SURFACE..
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.
6. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" TO 12" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
7. ROLL THE BLANKET DOWN IN THE DIRECTION OF THE WATER FLOW.
8. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4" OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
9. WHEN BLANKETS MUST BE SPLICED, PLACE UPPER BLANKET END OVER LOWER END WITH 12" (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
10. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET ANGP-T-G-017 FPR RECP SPECIFICATIONS

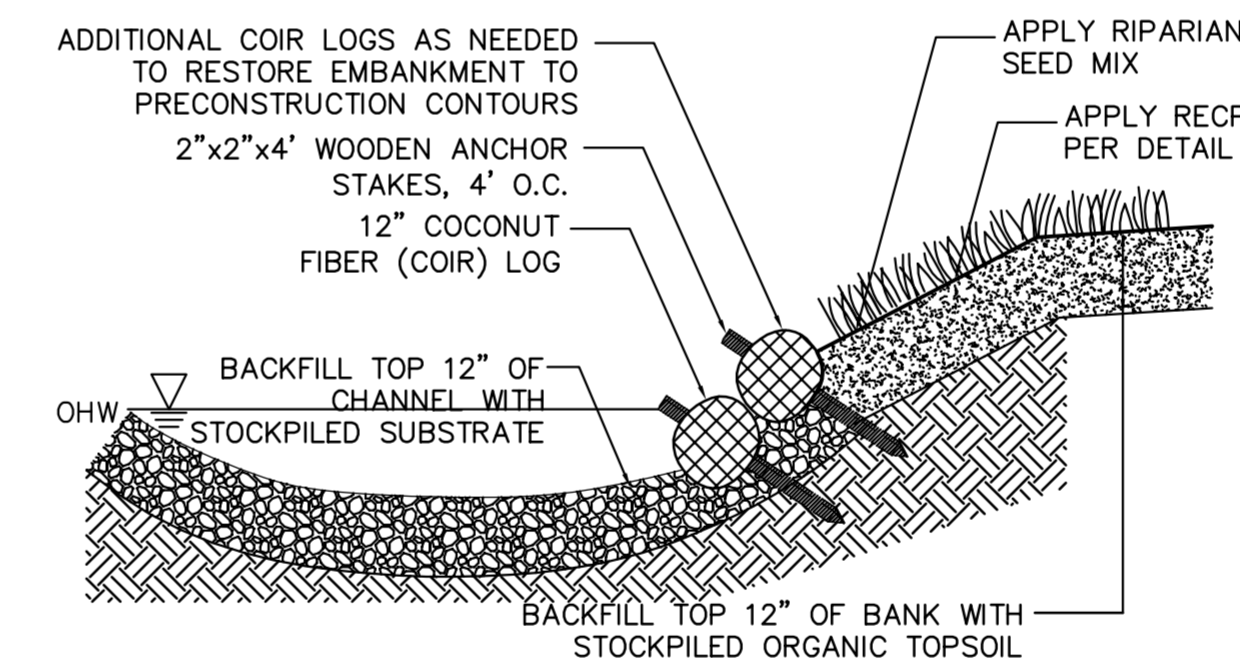
5 Rolled Erosion Control Blanket (RECP) - Slope Installation 12/12
N.T.S. Source: VHB LD_680-vt



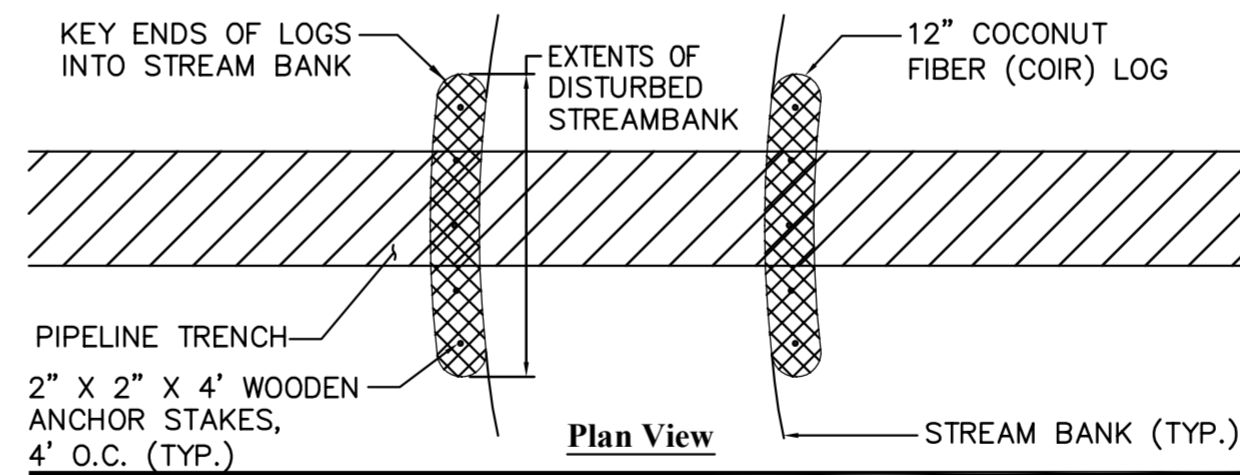
Notes:

1. SEE SHEET ANGP-T-G-017 FOR RECP SPECIFICATIONS

6 Streambank Restoration with RECP 12/12
N.T.S. Source: CHA LD_



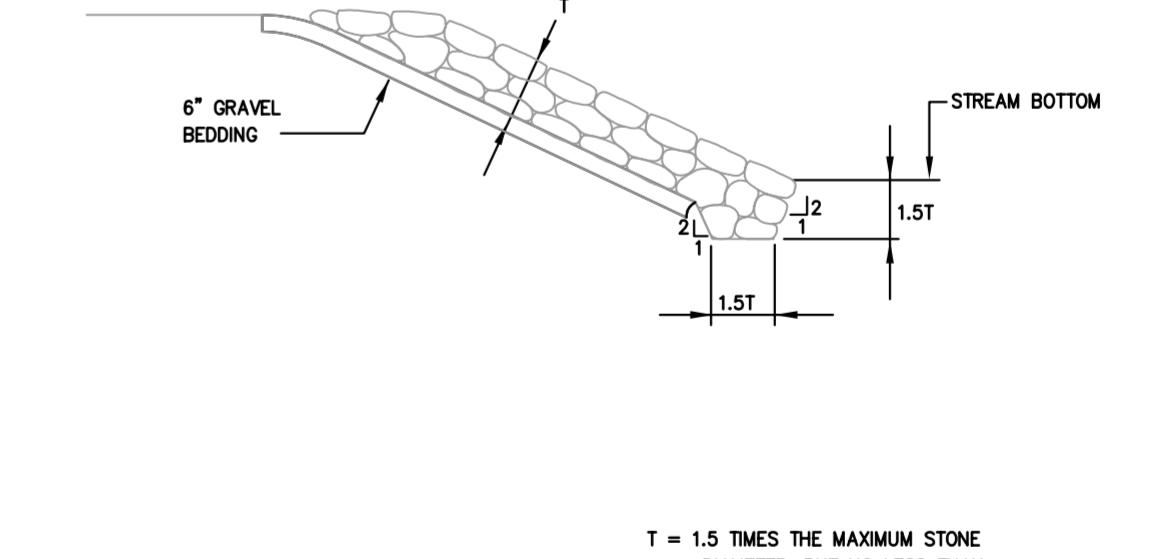
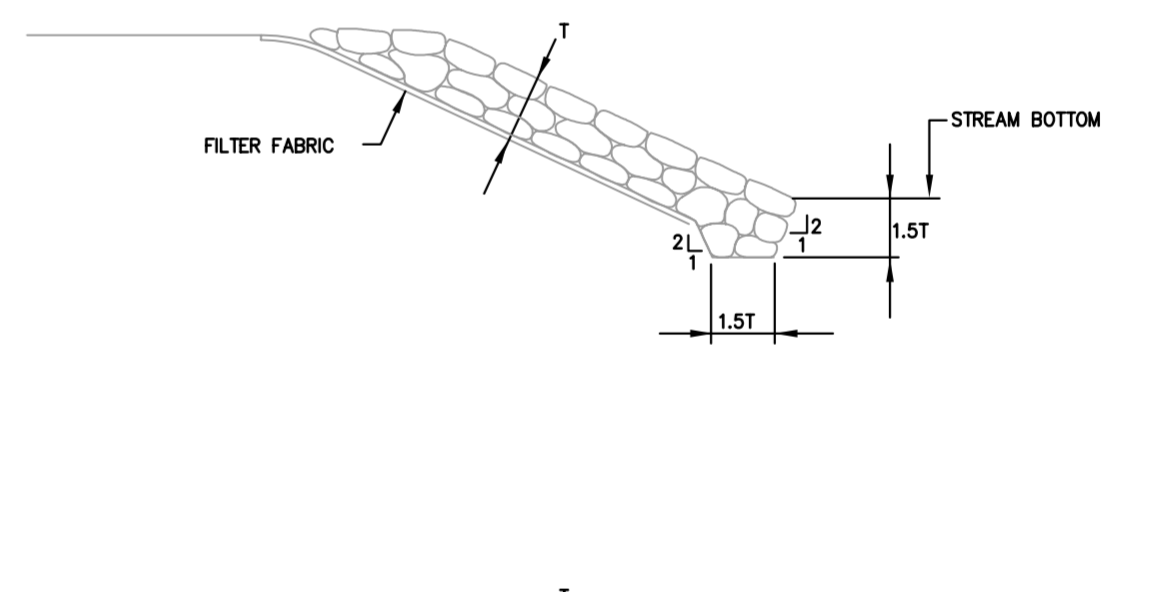
Channel Section



Notes:

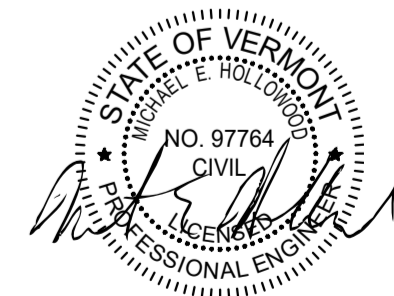
1. APPLY COIR LOG DETAIL TO SITES WHERE STREAMBANK IS DISTURBED OR TRENCHED THROUGH DURING PIPELINE INSTALLATION AND BANK COMPOSITION PERMITS STAKES TO BE DRIVEN
2. INSTALL ROLLED EROSION CONTROL PRODUCT (RECP) PRIOR TO INSTALLATION OF COIR LOGS
3. PLACE COIR LOG IN 2" DEEP TRENCH ALONG SLOPE OF EMBANKMENT AND STAKE INTO PLACE THROUGH RECP
4. KEY-IN COIR LOG BOTH UPSTREAM AND DOWNSTREAM FROM PIPELINE TRENCH TO MAKE COIR LOG FLUSH WITH STREAMBANK IN ORDER TO PREVENT UNRAVELING OF BANK DURING HIGH FLOW EVENTS.
5. COIR LOG MESH TO CONSIST OF BIODEGRADABLE MATERIAL.

7 Streambank Restoration with Coir Logs 6/13
N.T.S. Source: VHB LD_



T = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NO LESS THAN 6 INCHES.

8 Streambank Stabilization with Rip Rap 12/12
N.T.S. Source: VHB LD_

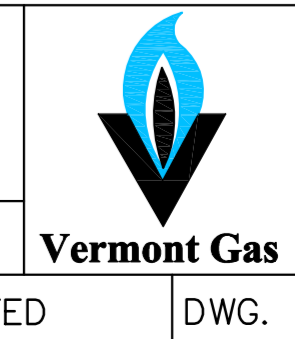


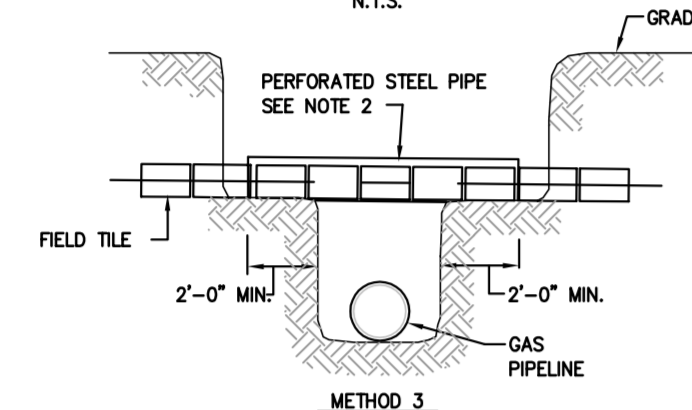
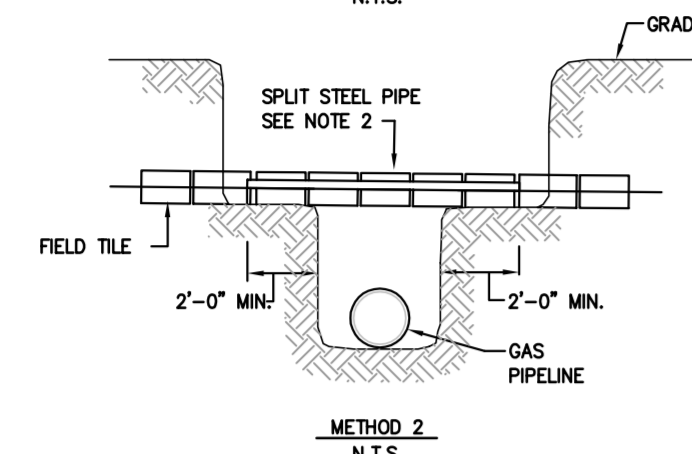
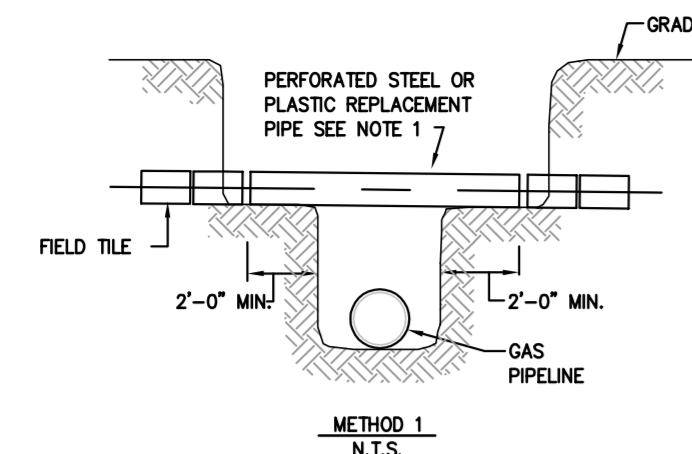
VHB Vanasse Hangen Brustlin, Inc.

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-018	REV.
										2016		NOTED			0

	BID	CONSTRUCTION
ENVIRONMENTAL	JLS 06/28/13	JLS 05/2016
DRAFTING DESIGNER	GIL 06/28/13	GJM 05/2016
DRAFTING SUPERVISOR	BZD 06/28/13	BCK 05/2016
DESIGN ENGINEER	MDF 06/28/13	GEW 05/2016
DESIGN MANAGER	SAB 06/28/13	JEO 05/2016

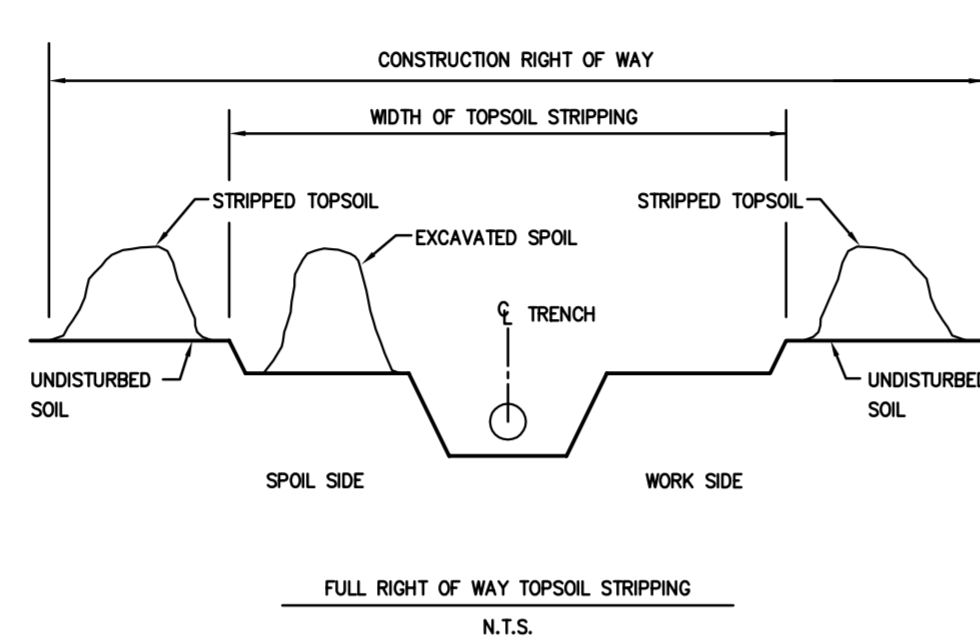
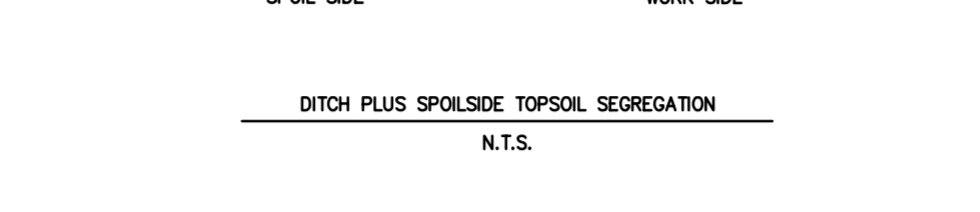
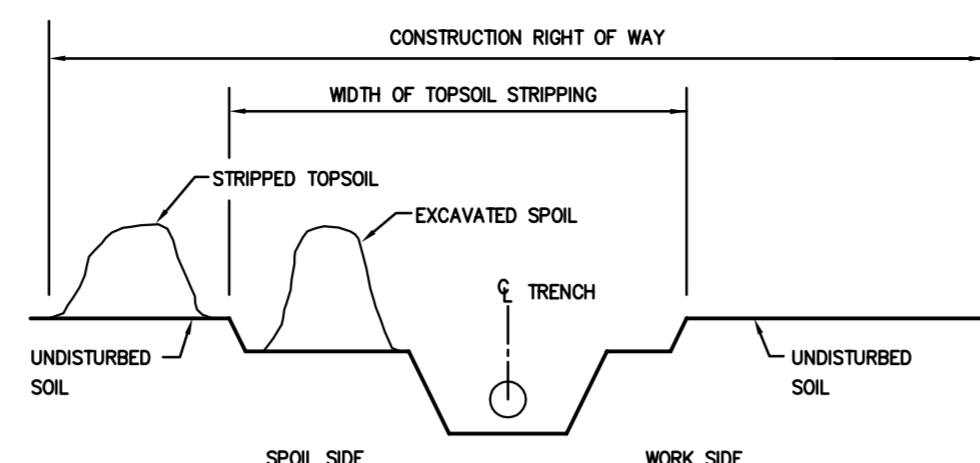
VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION DETAILS
LOC. CHITTENDEN & ADDISON COUNTIES
YEAR: 2016 W.O. SCALE: NOTED





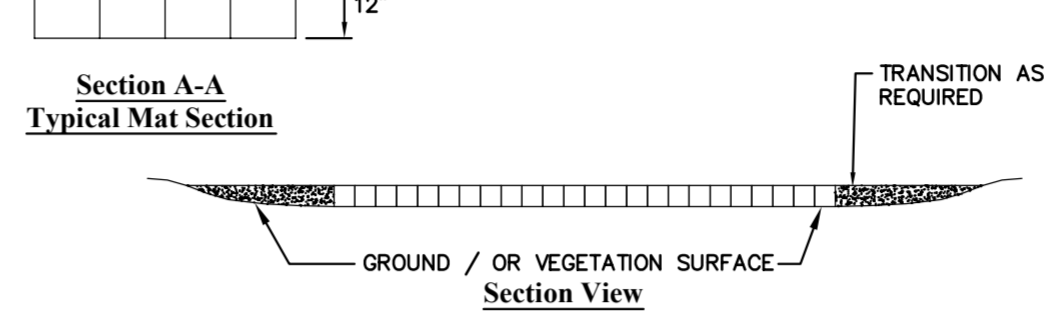
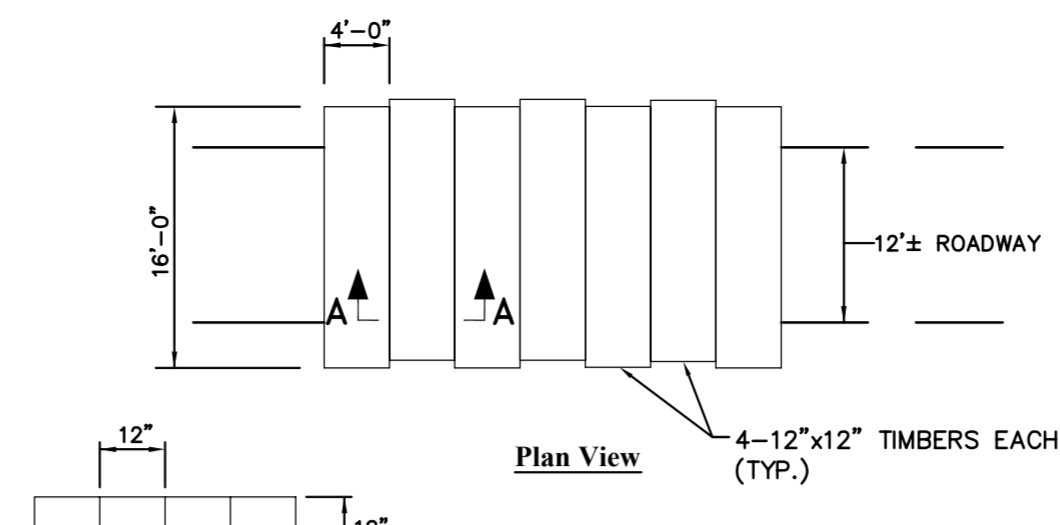
- NOTES:
1. REPLACEMENT PIPE TO BE AS NEAR AS POSSIBLE TO THE DIAMETER OF THE FIELD TILE.
 2. STEEL CARRIER PIPE TO HAVE INSIDE DIAMETER AS NEAR AS POSSIBLE TO THE OUTSIDE DIAMETER OF THE FIELD TILE.
 3. MAINTAIN ORIGINAL FLOW LINE OF FIELD TILE IN ALL METHODS.

1 Typical Drain Tile Protection 12/12
N.T.S. Source: VHB LD_



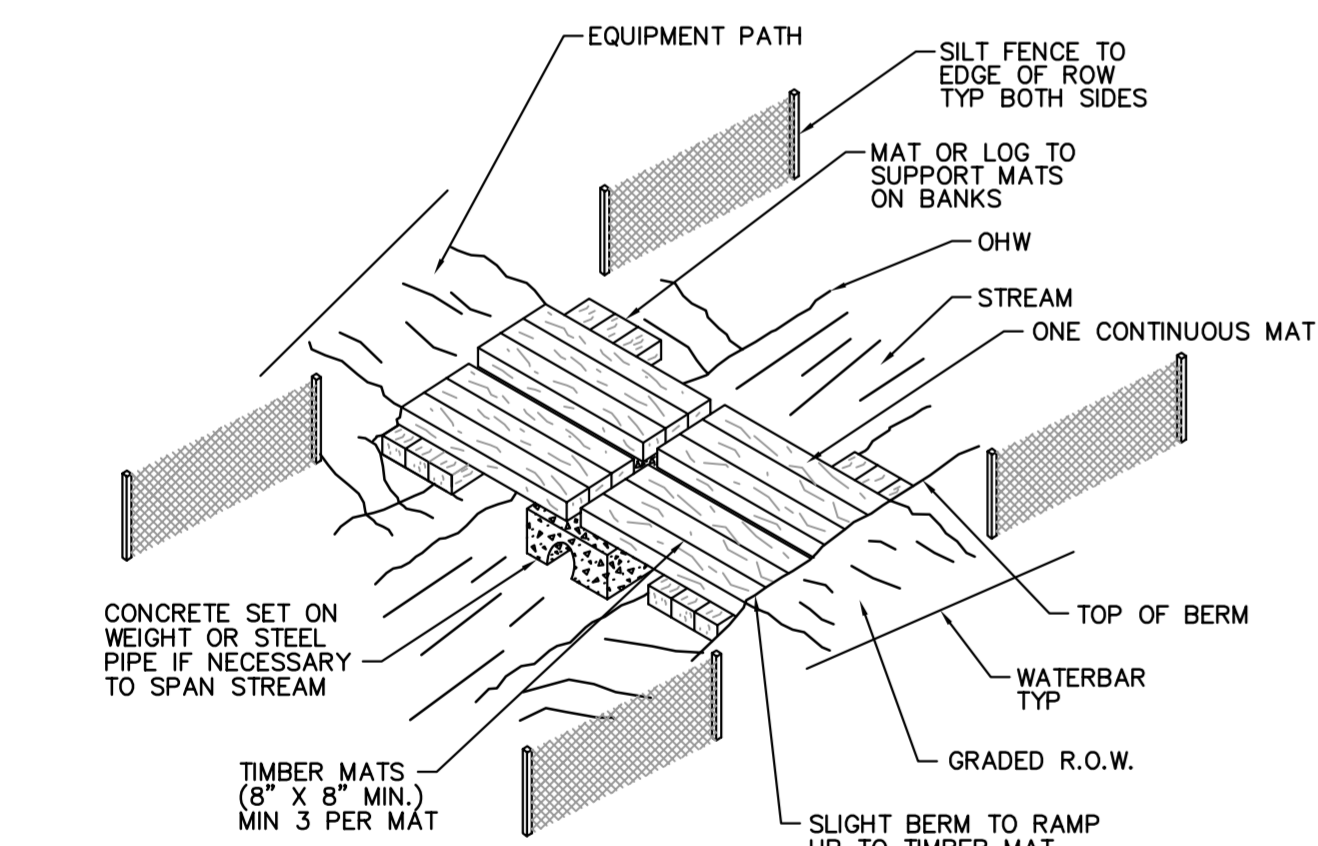
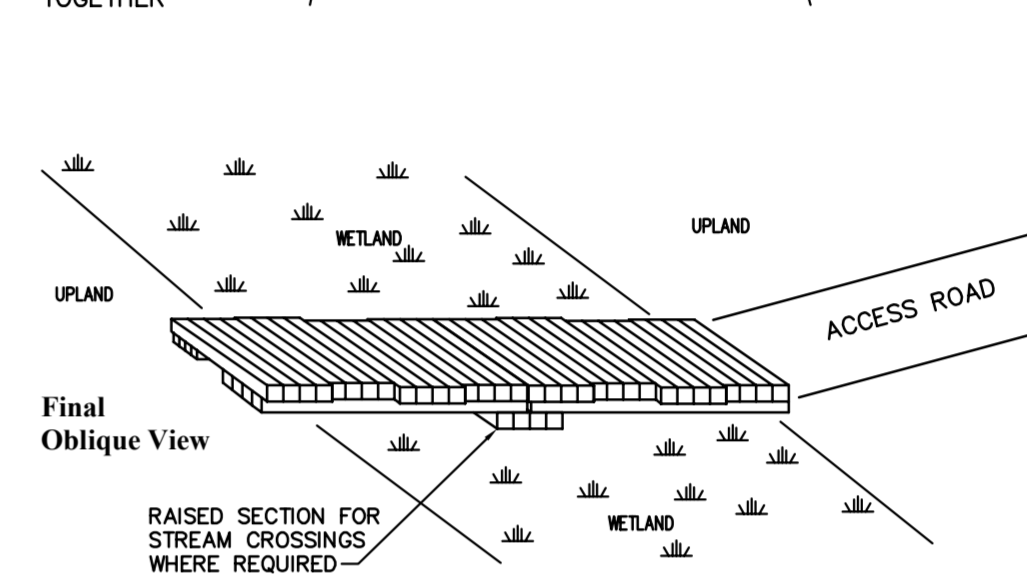
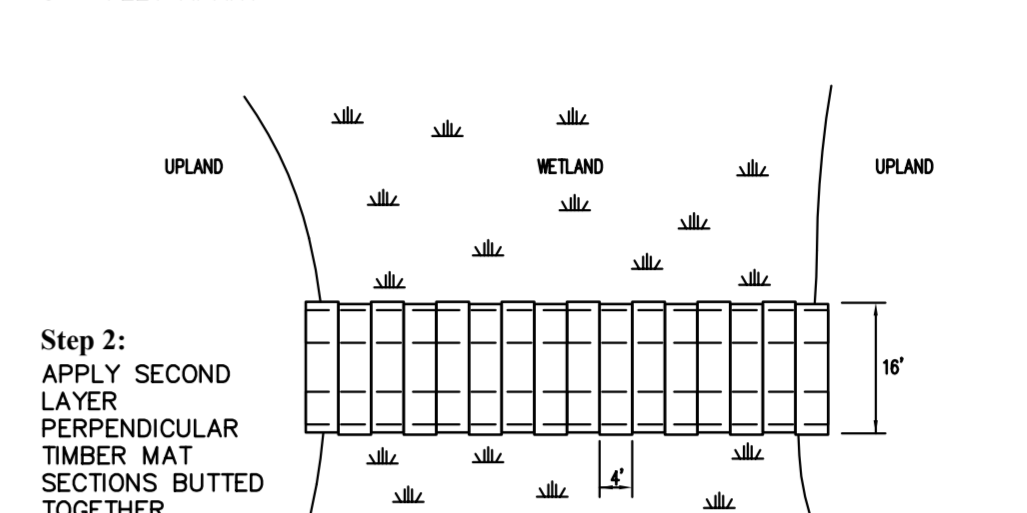
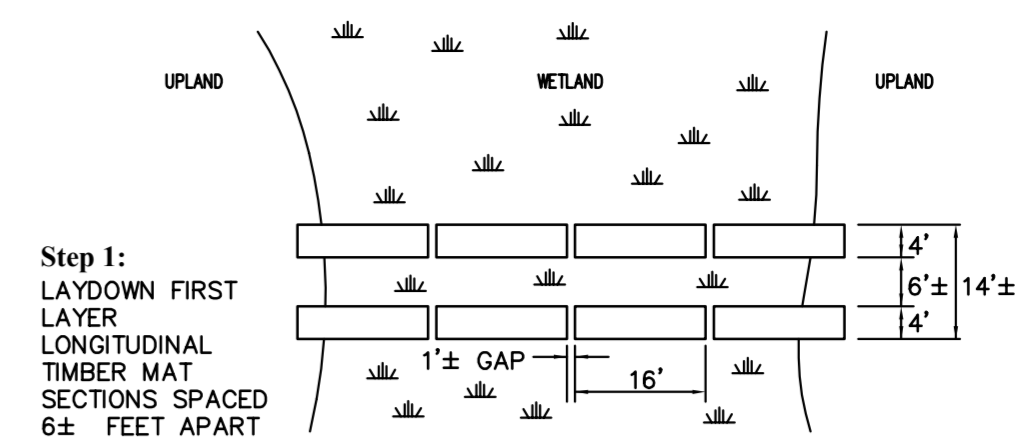
- NOTES:
1. TOPSOIL MAY BE STORED IN LOCATIONS AS SHOWN ABOVE OR AT OTHER LOCATIONS WITHIN THE CONSTRUCTION ROW.
 2. SEE SHEET ANGP-T-G-015 FOR TRENCH BACK-FILLING DETAIL AND SPECIFICATIONS.

2 Topsoil Segregation 12/12
N.T.S. Source: VHB LD_



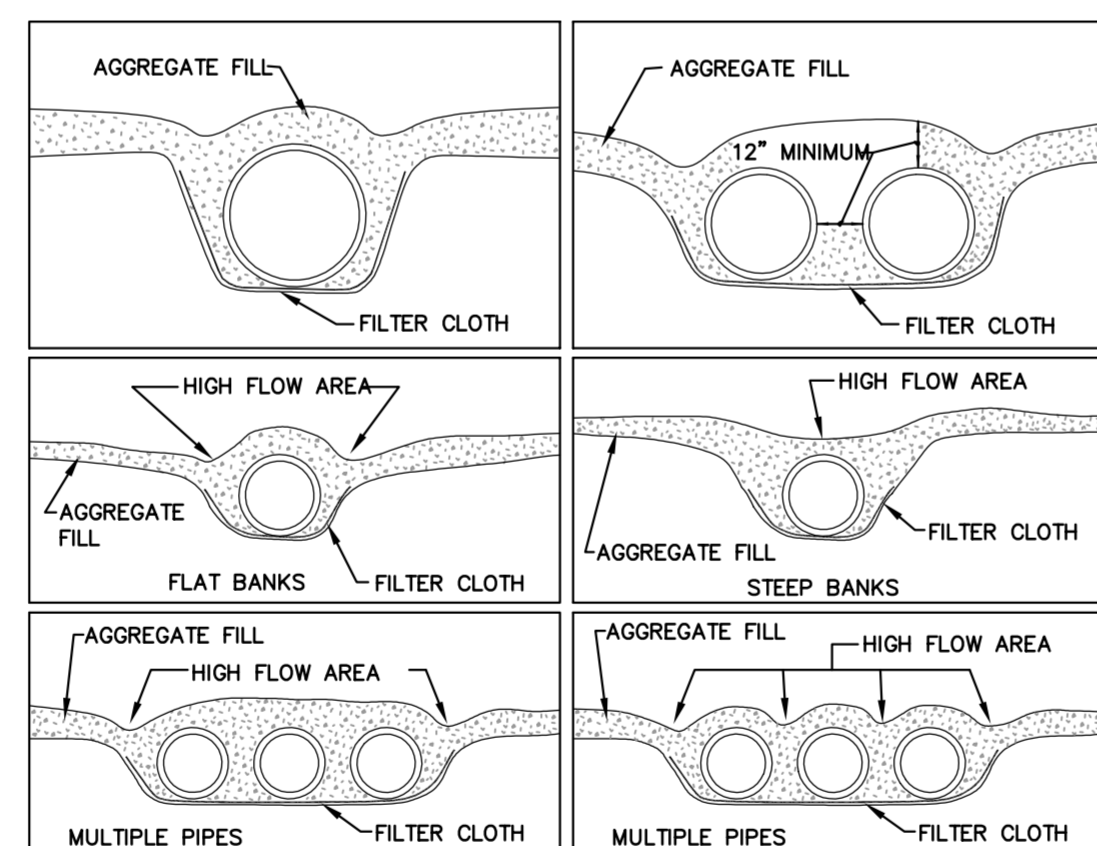
- Notes:
1. TO BE INSTALLED WHERE NECESSARY IN WETLAND FOR ACCESS FOR CONSTRUCTION. ALTERNATIVE CONSTRUCTION MATTING (E.G., RUBBER MATS) MAY BE SUBSTITUTED FOR TIMBER MATTING.
 2. PREPARATION FOR INSTALLATION OF TIMBER MATS WILL CONSIST OF CUTTING TALL WOODY SPECIES AND TRIMMING SHRUBS IF CONDITIONS REQUIRE. VEGETATION ROOT MASS IS TO REMAIN UNDISTURBED. MATS TO BE PLACED TO MAINTAIN NATURAL SOIL CONTOURS/CONDITIONS.
 3. TIMBER SECTIONS TO BE SECURED TOGETHER WITH NO SPACES BY BOLTS, NAILS, STRAPS OR OTHER APPROPRIATE METHODS.
 4. TIMBER MATS TO BE REMOVED UPON COMPLETION OF PROJECT AND AREA RESTORED TO NEAR ORIGINAL CONDITIONS PER EPSC PLANS.
 5. SNOW/ICE REMOVAL BY MECHANICAL METHODS; NO DEICING SALT OR CHEMICALS TO BE USED. LIGHT APPLICATION OF SAND FOR TRACTION ACCEPTABLE SO AS RESIDUE DOES NOT ACCUMULATE IN WETLAND.
 6. MATS ARE TO BE IN PLACE FOR MINIMUM DURATION FEASIBLE.

3 Construction Matting - Timber Mat Typ. 12/12
N.T.S. Source: VHB LD_

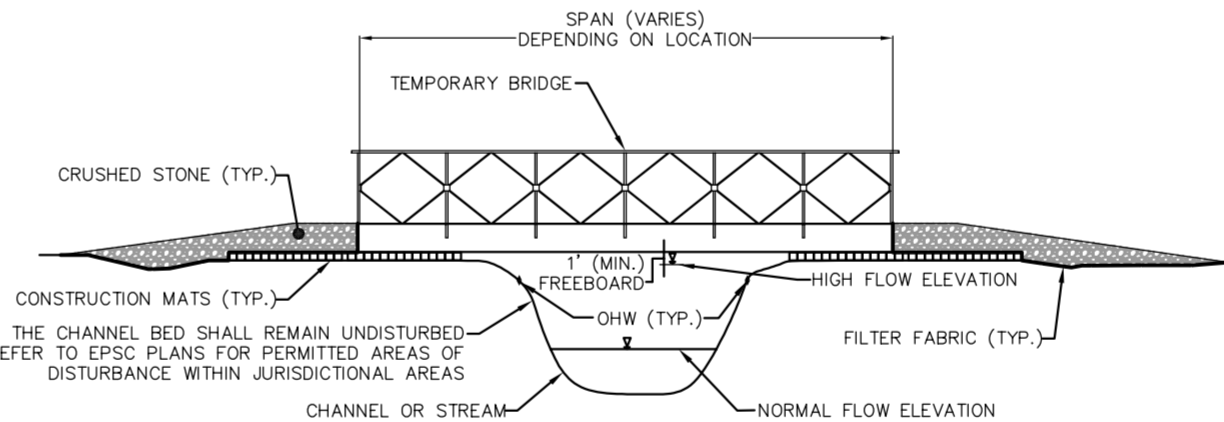


- NOTES:
1. THERE IS TO BE NO UNNECESSARY MOVEMENT OF EQUIPMENT THROUGH WATER.
 2. TIMBER MATS TO BE POSITIONED TO RUN FROM TOP OF BANK TO TOP OF BANK WHERE POSSIBLE. AT MINIMUM, THE TIMBER MAT BRIDGE SHALL SPAN THE ORDINARY HIGH WATER (OHW) WIDTH OF THE CHANNEL.
 3. TIMBER MATS SHALL BE CLEANED OF SEDIMENT PRIOR TO EACH INSTALLATION.
 4. TIMBER MATS SHOULD BE INSTALLED SO THERE ARE NO GAPS BETWEEN MATS.

4 Construction Mat Bridge 12/12
N.T.S. Source: CHA LD_

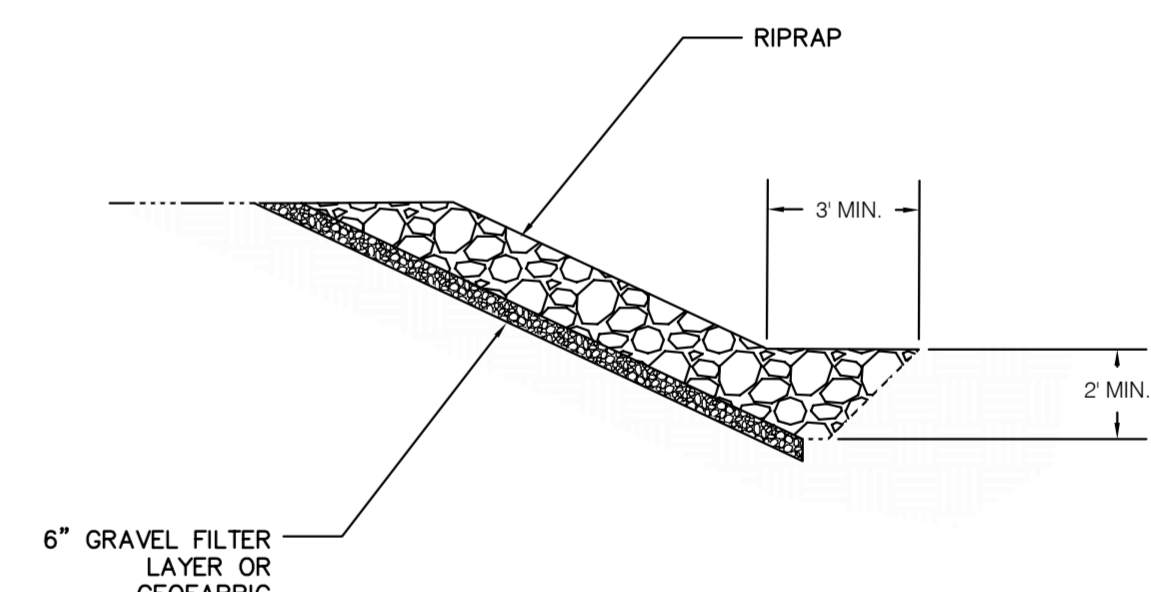


5 Temporary Access Culverts 12/12
N.T.S. Source: VHB LD_



- NOTES:
1. BRIDGE SHALL BE DESIGNED TO PROVIDE A CLEAR SPAN THAT IS EQUAL TO OR GREATER THAN OHW AT THE CROSSING SITE.
 2. NO MATERIALS SHALL BE PLACED IN THE CHANNEL BELOW OHW WITHOUT PRIOR AUTHORIZATION.
 3. BRIDGE SHALL BE DESIGNED TO CARRY THE MAXIMUM ANTICIPATED CONSTRUCTION LOADS. HOWEVER SHALL NOT BE LESS THAN AASHTO HS-20 LOADING CRITERIA.
 4. BRIDGE SHALL BE DESIGNED SUCH THAT A MINIMUM ONE FOOT (1 FT) OF FREE BOARD EXISTS BETWEEN THE LOWEST MEMBER AND THE ANTICIPATED HIGH FLOW (Q25) WATER ELEVATION.
 5. ADDITIONAL LOAD BEARING DEVICES BEYOND CONSTRUCTION MATTING MAY BE REQUIRED. THE CONTRACTOR SHALL CONDUCT A GEOTECHNICAL ANALYSIS OF EACH BRIDGE SITE TO DETERMINE THE NECESSARY BEARING CAPACITY OF SOILS AND TO DETERMINE THE MINIMUM DISTANCE BETWEEN BEARING SURFACES AND THE TOP OF STREAM/CHANNEL BANK.
 6. APPROACH GRADES SHALL BE AS DEEMED NECESSARY BY THE CONTRACTOR.

6 Temporary Bridge Detail 12/12
N.T.S. Source: VHB LD_



- Notes:
1. MINIMUM THICKNESS SHALL BE 1.5X MAX STONE DIAMETER, BUT IN NO CASE < 6".
 2. THE TOE OF RIP RAP SHALL BE KEYED IN STABLE FOUNDATION @ IT'S BASE.
 3. STONE SIZE SHOULD BE BASED ON ANGLE OF REPOSE FOR SPECIFIC SIZE. (FIG 4.3 P 4.38)

7 Riprap Slope Protection 12/12
N.T.S. Source: VHB LD_



VHB Vanasse Hangen Brustlin, Inc.

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: NOTED	DWG. ANGP-T-G-019	REV. 0

	BID	CONSTRUCTION
ENVIRONMENTAL	JLS 06/28/13	JLS 05/2016
DRAFTING DESIGNER	GIL 06/28/13	GJM 05/2016
DRAFTING SUPERVISOR	BZD 06/28/13	BCK 05/2016
DESIGN ENGINEER	MDF 06/28/13	GEW 05/2016
DESIGN MANAGER	SAB 06/28/13	JEO 05/2016

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
CONSTRUCTION DETAILS

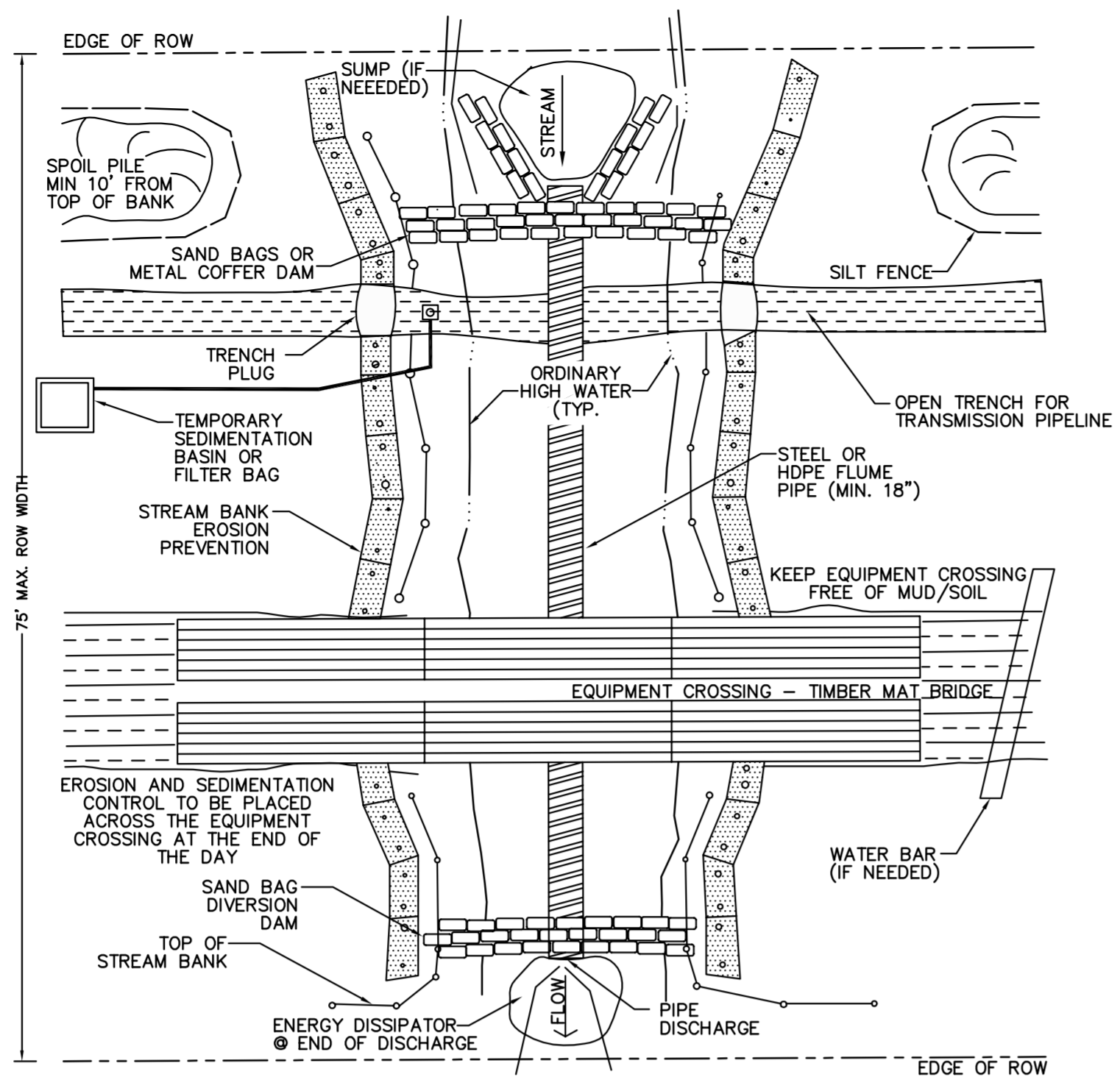
LOC. CHITTENDEN & ADDISON COUNTIES

YEAR: 2016 W.O. SCALE: NOTED DWG. ANGP-T-G-019 REV. 0

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chacompanies.com

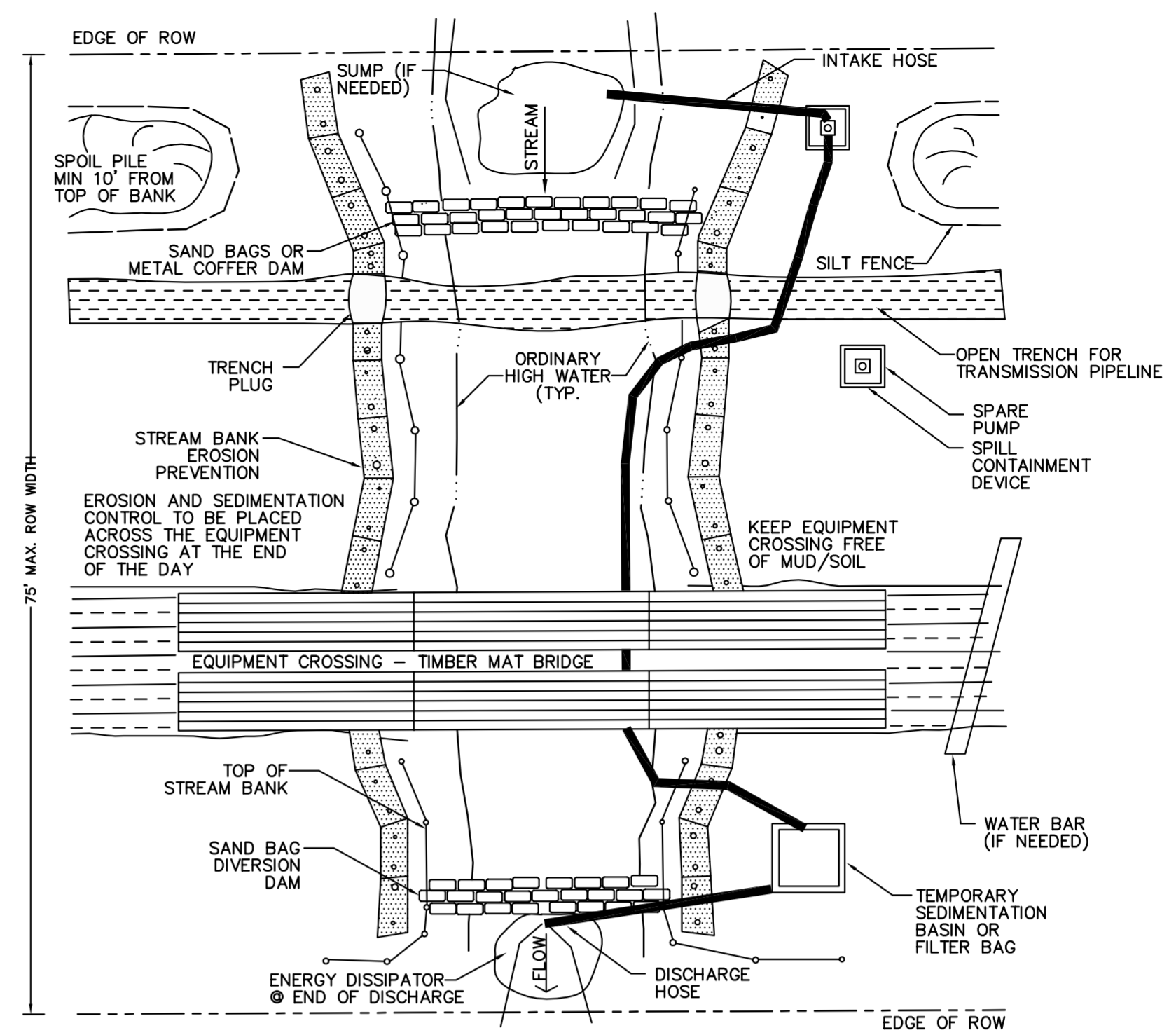
NOTES:

- USE DIVERSION FLUME STREAM CROSSING ON WATER COURSES WITH LIMITED STREAM FLOW TO PREVENT SEDIMENTATION AND INTERRUPTION OF STREAM FLOW DURING CONSTRUCTION. THIS METHOD IS APPROPRIATE IN LOCATIONS WHERE FISH PASSAGE IS A CONCERN.
- SCHEDULE CONSTRUCTION DURING LOW FLOW PERIOD, IF POSSIBLE.
- THIS DETAIL REPRESENTS ONE POSSIBLE CONFIGURATION OF CONSTRUCTION ELEMENTS WITHIN THE TEMPORARY AND PERMANENT ROW. ALTERNATE CONFIGURATIONS OF CONSTRUCTION ELEMENTS BETWEEN THE UPSTREAM AND DOWNSTREAM DIVERSION STRUCTURES ARE ALLOWABLE SO LONG AS APPROPRIATE MEASURES ARE MAINTAINED TO PROTECT WATER QUALITY.
- SET UP STEEL OR HDPE PIPE AS SHOWN, OR USE PRACTICAL ALTERNATIVES. PIPE (OR PIPES) MUST BE SIZED TO HAVE TWICE THE CAPACITY OF ANTICIPATED FLOW. DEPENDING ON STREAM FLOW, DIG SUMP HOLE TO CONCENTRATE WATER AT INTAKE.
- INSTALL UPSTREAM DAM COMPOSED OF SANDBAGS, METAL PLATING OR A COMBINATION OF BOTH. INSTALL DOWNSTREAM DAM, IF REQUIRED, TO KEEP STREAM BED DRY.
- AFTER DAMS ARE IN PLACE, IT MAY BE NECESSARY TO USE A SUMP PUMP AND DEWATERING FILTER BAG TO KEEP WORK AREA DRY.
- ALL MECHANIZED EQUIPMENT TO PERFORM WORK FROM ADJACENT TOP OF BANK AREAS. MAT STREAM IF WORK TO OCCUR IN STREAM CHANNEL.
- EXCAVATE TRENCH AND LOWER IN PIPE UNDER DIVERSION FLUME. MOVE FLUME AS REQUIRED OR DISCONNECT IF TEMPORARY FLOW BLOCKAGE IS ACCEPTABLE. BACKFILL TRENCH.
- DISMANTLE DOWNSTREAM DAM, THEN UPSTREAM DAM.
- RESTORE DISTURBED CHANNEL, STREAM BANKS AND APPROACHES FOR A MINIMUM DISTANCE OF AT LEAST 50 FT. FROM THE STREAM EDGES AND PERMANENTLY STABILIZE WITHIN 1 DAY OF INITIAL RESTORATION. REFER TO THE STREAMBANK RESTORATION DETAIL FOR RESTORATION REQUIREMENTS.



NOTES:

- USE DAM AND PUMP METHOD ON WATER COURSES WITH LIMITED STREAM FLOW TO PREVENT SEDIMENTATION AND INTERRUPTION OF STREAM FLOW DURING CONSTRUCTION.
- SCHEDULE CONSTRUCTION DURING LOW FLOW PERIOD, IF POSSIBLE.
- THIS DETAIL REPRESENTS ONE POSSIBLE CONFIGURATION OF CONSTRUCTION ELEMENTS WITHIN THE TEMPORARY AND PERMANENT ROW. ALTERNATE CONFIGURATIONS OF CONSTRUCTION ELEMENTS BETWEEN THE UPSTREAM AND DOWNSTREAM DIVERSION STRUCTURES ARE ALLOWABLE SO LONG AS APPROPRIATE MEASURES ARE MAINTAINED TO PROTECT WATER QUALITY.
- SET UP PUMP AND HOSE AS SHOWN, OR USE PRACTICAL ALTERNATIVES. PUMP SHOULD HAVE TWICE THE PUMPING CAPACITY OF ANTICIPATED FLOW. HAVE STANDBY PUMP ON SITE. DEPENDING ON STREAM FLOW, DIG SUMP HOLE TO CONCENTRATE WATER AT INTAKE.
- USE TEMPORARY SEDIMENTATION BASIN OR FILTER BAG PRIOR TO DISCHARGING WATER BACK TO STREAM.
- INSTALL UPSTREAM DAM COMPOSED OF SANDBAGS, METAL PLATING OR A COMBINATION OF BOTH. INSTALL DOWNSTREAM DAM, IF REQUIRED, TO KEEP STREAM BED DRY.
- AFTER DAMS ARE IN PLACE, IT MAY BE NECESSARY TO USE ADDITIONAL PUMPS TO HANDLE STREAM FLOW.
- EXCAVATE TRENCH AND LOWER IN PIPE UNDER HOSE. BACKFILL TRENCH.
- ALL MECHANIZED EQUIPMENT TO PERFORM WORK FROM TEMPORARY BRIDGE OR ADJACENT TOP OF BANK AREAS. USE TIMBER MATS IS TO OCCUR IN STREAM CHANNEL.
- DISMANTLE DOWNSTREAM DAM, THEN UPSTREAM DAM.
- RESTORE DISTURBED CHANNEL, STREAM BANKS AND APPROACHES FOR A MINIMUM DISTANCE OF AT LEAST 50 FT. FROM THE STREAM EDGES AND PERMANENTLY STABILIZE WITHIN 1 DAY OF INITIAL RESTORATION. REFER TO THE STREAMBANK RESTORATION DETAIL FOR RESTORATION REQUIREMENTS.



1 Diversion Flume Stream Crossing

12/12

N.T.S. Source: VHB LD_

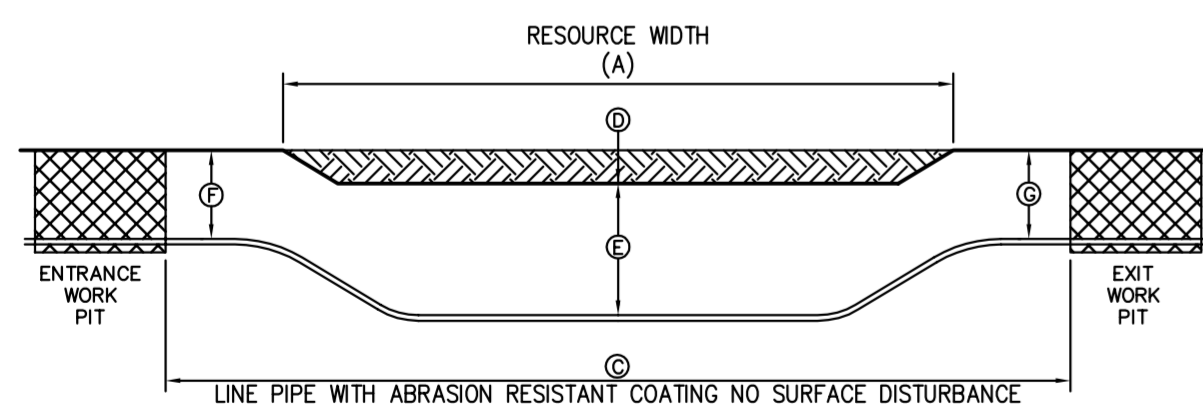
2 Open Trench Stream Crossing - Dam and Pump Around

12/12

N.T.S. Source: VHB LD_

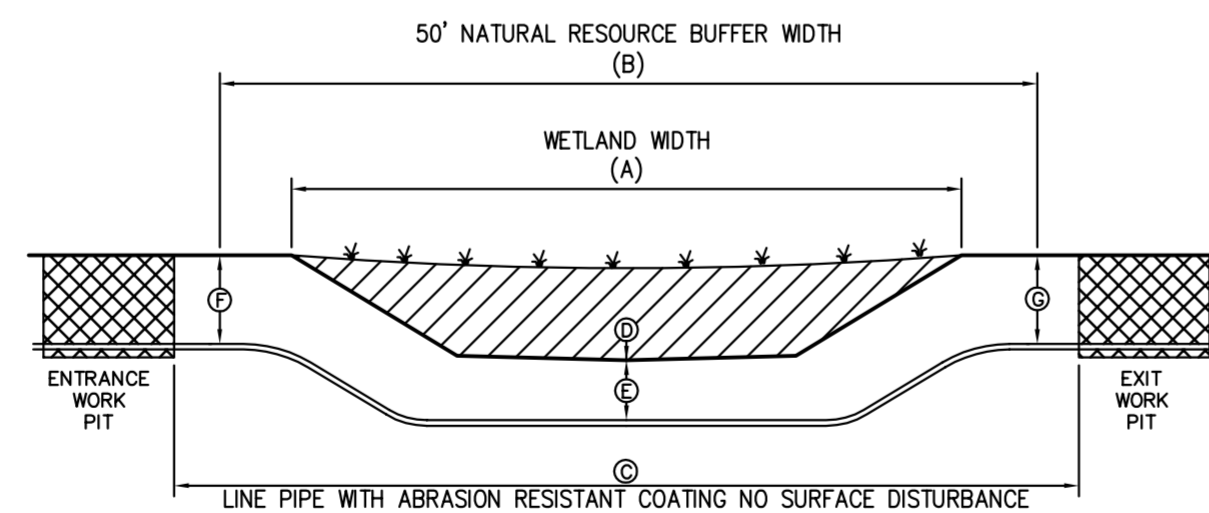
MILEPOST	RESOURCE NAME	RESOURCE AREA WIDTH (A)	HDD LENGTH (C)	DEPTH OF RESOURCE AREA (D)	ELEV. BELOW RESOURCE (E)	ENTRY ELEV. (F)	EXIT ELEV. (G)
28.2	VT-AD-1560 VT-AD-1561	300	775	400	< 393	396	396
28.57	VT-AD-1562	200	375	406	<399	412	412
35.77	VT-AD-806	160	950	310	< 303	323	323

MILEPOST	WETLAND ID	WETLAND WIDTH (A)	BUFFER WIDTH (B)	HDD LENGTH (C)	UNCON. MATERIAL ELEV. (D)	CONSOL. MATERIAL ELEV. (E)	ENTRY ELEV. (F)	EXIT ELEV. (G)
22.1	2012-CM-84 2012-PW-85	1,110	1,520	1,600	398	< 391	424	404
27.3	2012-PW-67 RTE-PS-045	2,300	2,450	2,270	358	< 356	< 376	< 400



Notes:

- THIS CONFIGURATION IS FOR HORIZONTAL DIRECTIONAL DRILL OF UPLAND NATURAL AND CULTURAL (ARCHAEOLOGICAL) RESOURCE SITES AS SHOWN ON PROJECT PLANS. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
- MINIMUM SEPARATION BETWEEN THE TOP OF PIPELINE AND THE CHANNEL RESOURCE BOTTOM (DIMENSION E) MUST BE AT LEAST 2 FEET.
- ELEVATIONS PROVIDED ARE BASED ON APPROXIMATE NAVD 88 DATUM AND MUST BE FIELD VERIFIED PRIOR TO INSTALLATION OF PIPELINE.



Notes:

- THIS CONFIGURATION IS FOR HORIZONTAL DIRECTIONAL DRILL OF WETLAND CROSSINGS AS SHOWN ON PROJECT PLANS. SEE ALIGNMENT SHEETS FOR LOCATIONS OF THIS CONFIGURATION.
- TOP OF PIPELINE MUST BE BELOW THE DEPTH OF PEAT OR OTHER UNCONSOLIDATED ORGANIC MATERIALS (DIMENSION D) THROUGHOUT THE LENGTH OF THE DRILL.
- MINIMUM SEPARATION BETWEEN THE UNCONSOLIDATED MATERIAL AND THE TOP OF PIPELINE (DIMENSION E) MUST BE AT LEAST 2 FEET.
- ELEVATIONS PROVIDED ARE BASED ON APPROXIMATE NAVD 88 DATUM AND MUST BE FIELD VERIFIED PRIOR TO INSTALLATION OF PIPELINE.

3 Horizontal Directional Drill (HDD) Upland Natural / Cultural Resource - Typical Section

04/13

N.T.S. Source: VHB

4 Horizontal Directional Drill (HDD) Wetland Crossing - Typical Section

04/13

N.T.S. Source: VHB

SPACE INTENTIONALLY LEFT BLANK

SPACE INTENTIONALLY LEFT BLANK

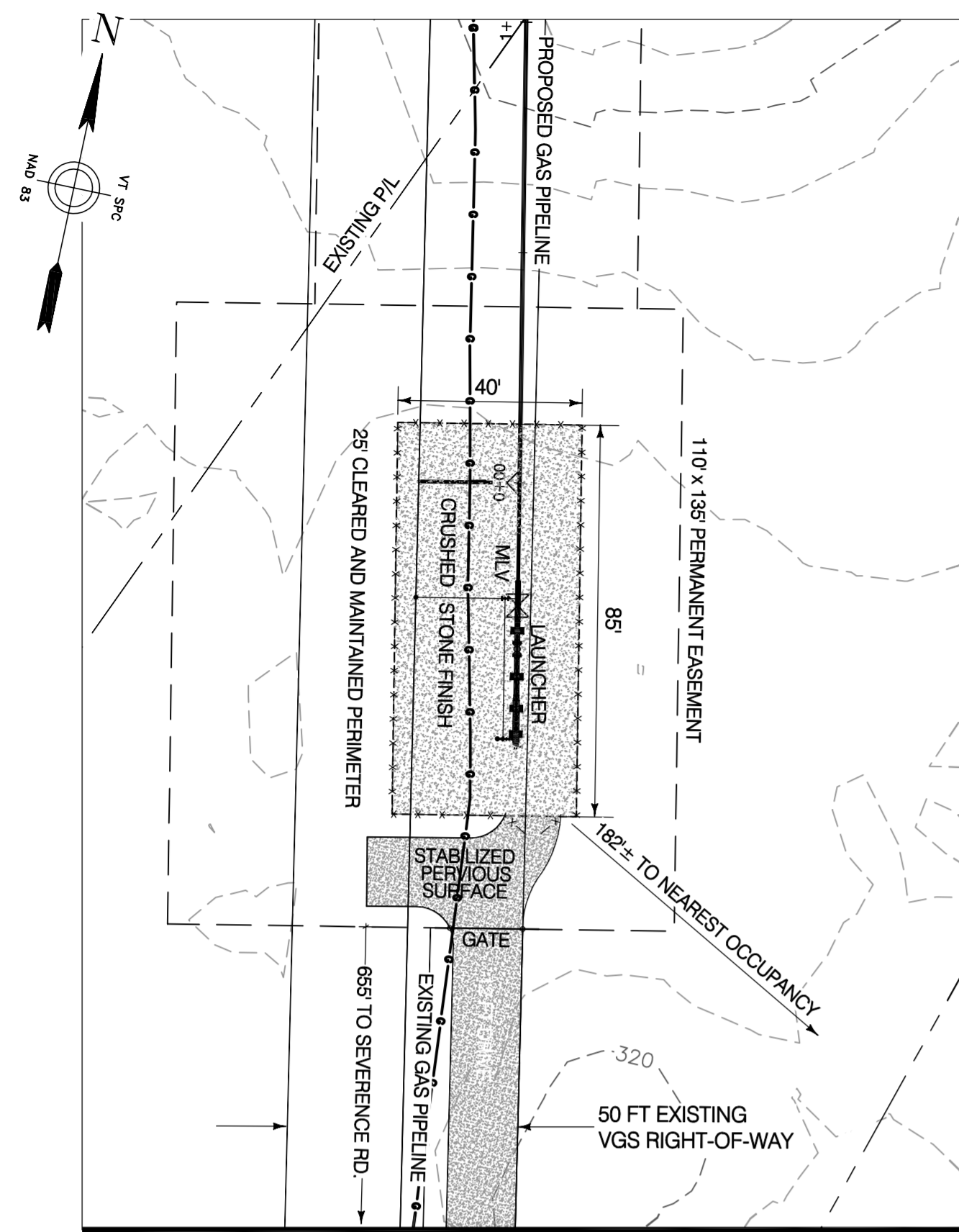


DWG. NO.	REFERENCE DWG.	REV	DSN	TDB	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-020	REV.
		1	BCK	TDB		ADDED ARCH. SITE (6/08/15)					2016		NOTED			1

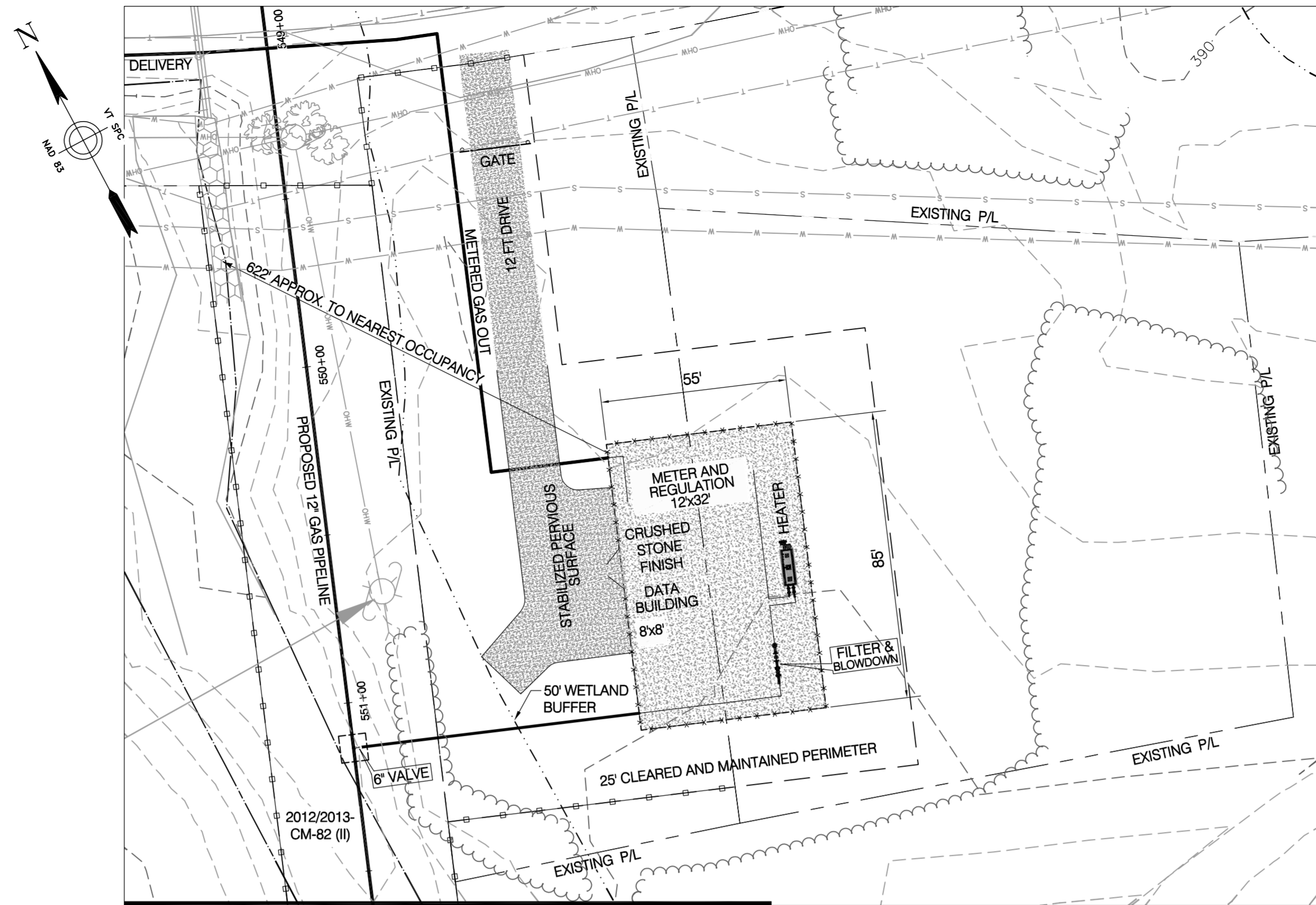
ENVIRONMENTAL		DRAFTING DESIGNER		DRAFTING SUPERVISOR		DESIGN ENGINEER		DESIGN MANAGER		CONSTRUCTION		VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT CONSTRUCTION DETAILS		LOC. CHITTENDEN & ADDISON COUNTIES		YEAR: 2016 W.O.		SCALE: NOTED		DWG. ANGP-T-G-020		REV. 1			
JLS	06/28/13	GIL	06/28/13	BZD	06/28/13	MDF	06/28/13	SAB	06/28/13	JLS	05/2016	GJM	05/2016	BCK	05/2016	GEW	05/2016	JEO	05/2016						

VHB Vanasse Hangen Brustlin, Inc.

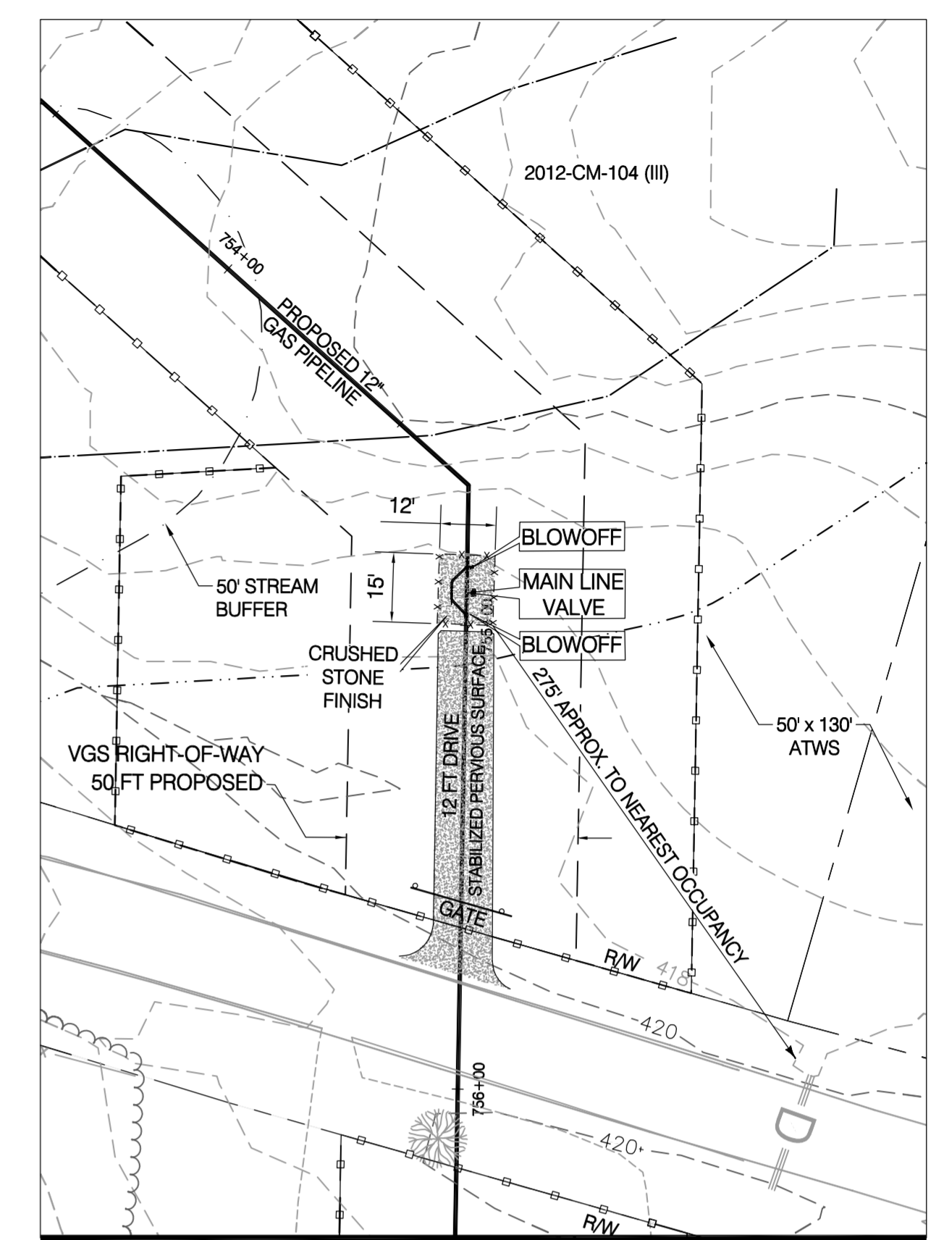




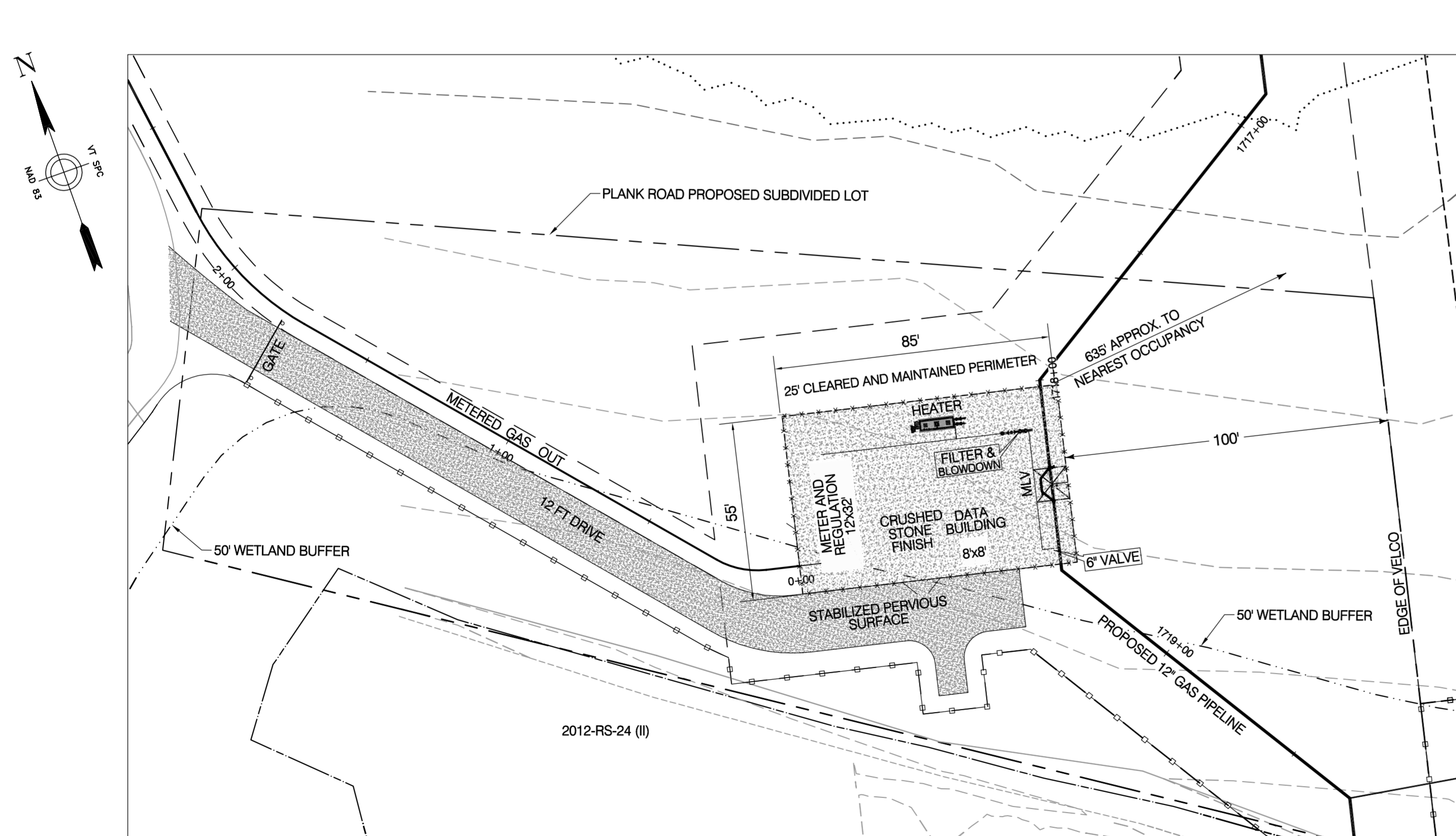
1 Colchester Tie-In 4/30
Scale: 1"=30'



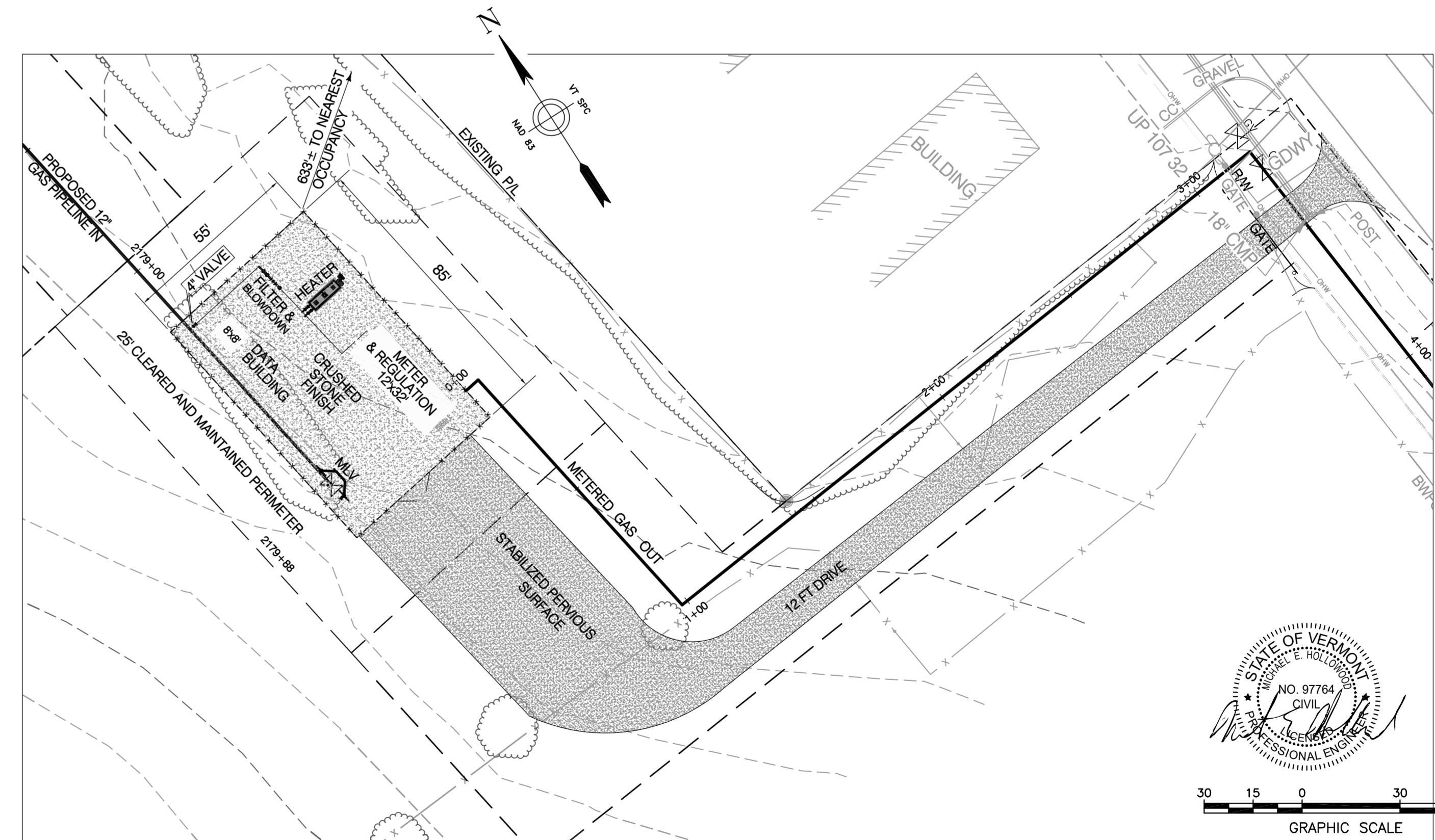
2 Williston Road Station 4/30
1"=30'



3 Typical Main Line Valve 4/30
1"=30'



4 Plank Road Station 4/30
Scale: 1"=30'



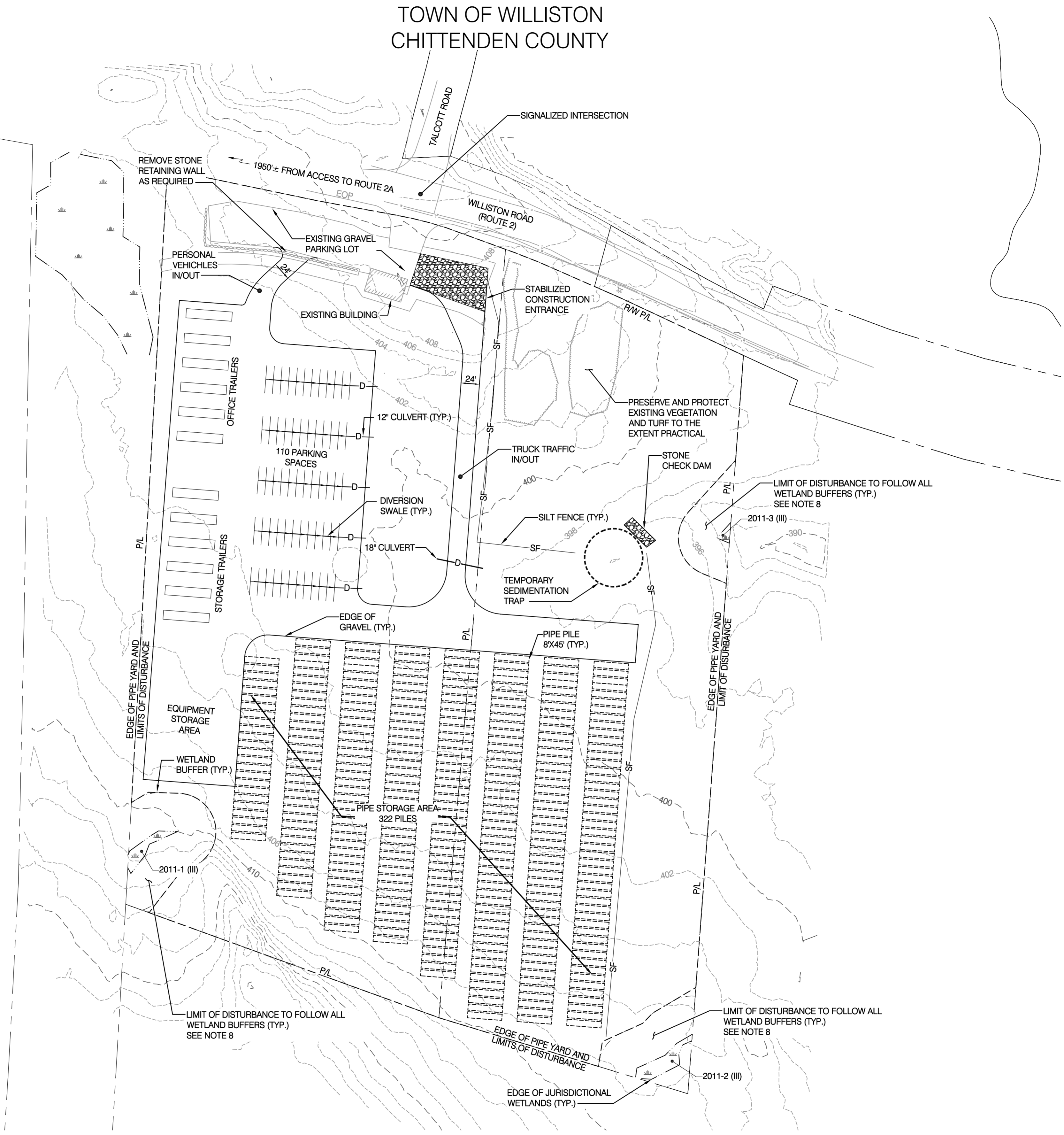
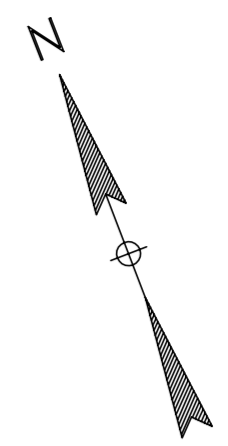
5 Middlebury Station RT 7 4/30
Scale: 1"=30'



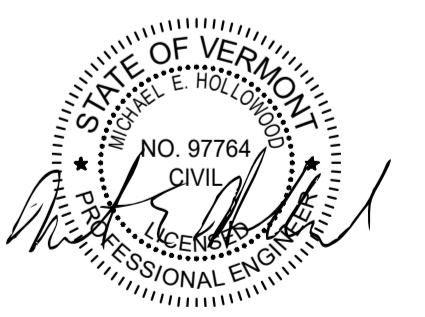
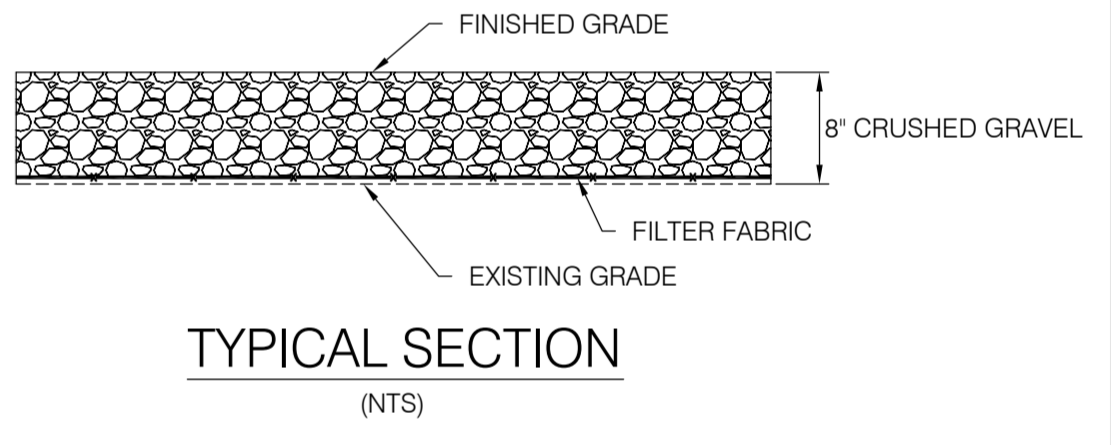
15-713-G-500	TYPICAL MAIN LINE VALVE					ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT STATION AND VALVE DETAILS LOC. CHITTENDEN & ADDISON COUNTIES YEAR: 2016 W.O. SCALE: AS NOTED DWG. ANGP-T-G-021 REV. 0		
15-713-G-400	COLCHESTER TIE IN				DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016				
15-713-G-300	MIDDLEBURY STATION RT 7				DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016				
15-713-G-200	PLANK ROAD STATION				DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016				
15-713-G-100	WILLISTON ROAD STATION				DESIGN MANAGER	SAB	06/28/13	JEO	05/2016				
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE				

VHB Vanasse Hangen Brustlin, Inc.

TOWN OF WILLISTON
CHITTENDEN COUNTY



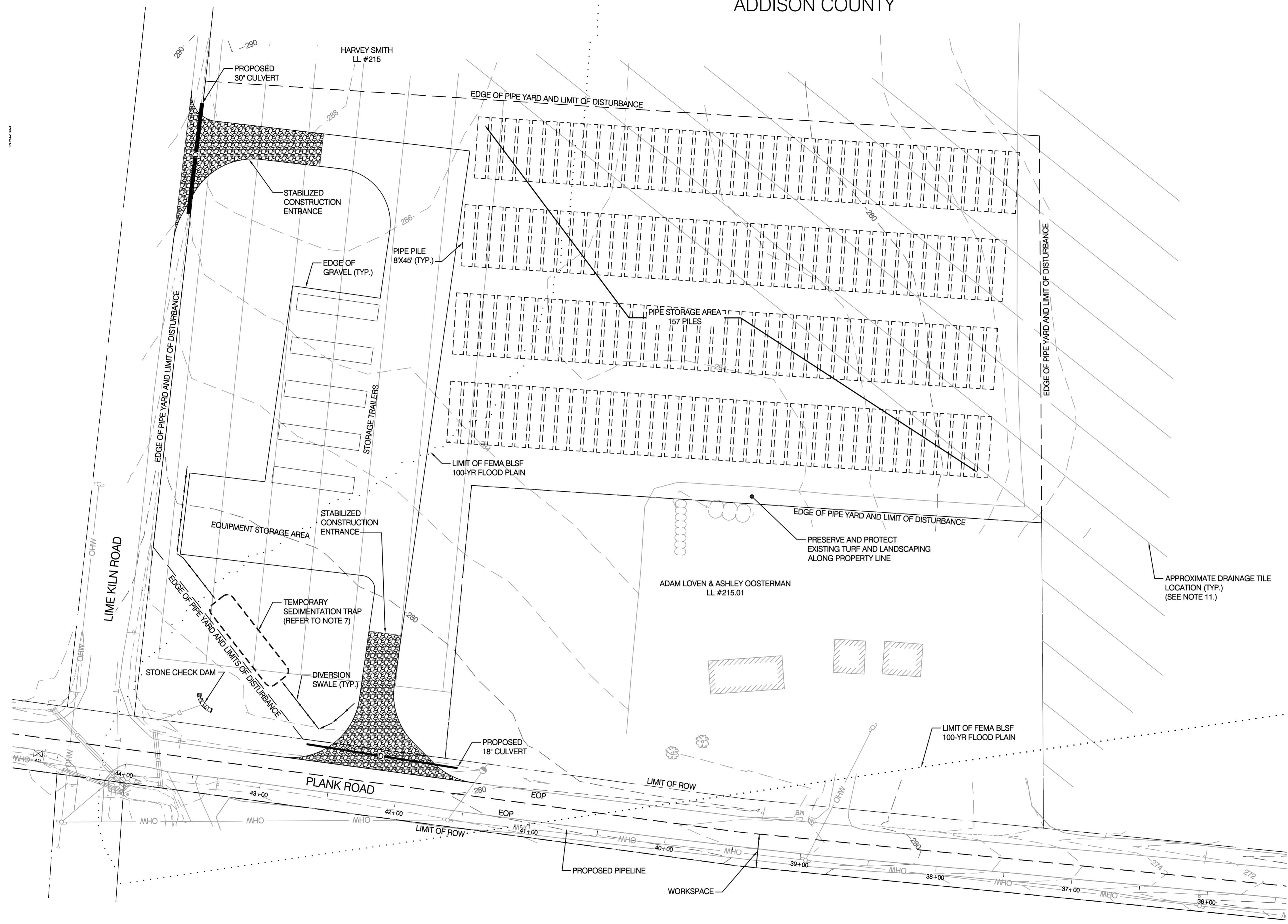
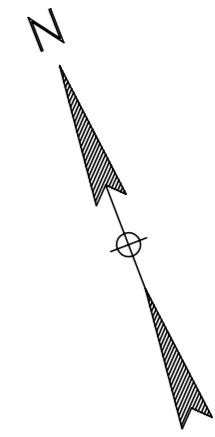
- NOTES:**
- PURPOSE OF PLAN: TO SHOW A GENERAL LAYOUT CONFIGURATION OF A CONSTRUCTION LAYDOWN AREA (PIPE YARD) ON THE SHOWN PARCELS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA AND LOCAL REQUIREMENTS.
 - THIS PROJECT FALLS WITHIN THE INDIVIDUAL NPDES CONSTRUCTION STORMWATER PERMIT PROGRAM. THE CONTRACTOR SHALL FOLLOW THE CONDITIONS OF THE INDIVIDUAL PERMIT AND EROSION AND SEDIMENT CONTROL PLAN (EPSC).
 - THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS BEFORE ANY EXCAVATION.
 - STORMWATER SHALL BE DIRECTED TO THE TEMPORARY SEDIMENT TRAP THROUGH THE USE OF DIVERSION SWALES, PIPES, WATERS, OR BY OTHER APPROVED METHODS AND MEANS.
 - LIMIT OF DISTURBANCE (LOD) TAPE AND/OR FENCE AND/OR FLAGGING SHALL BE INSTALLED PER DETAILS 1 AND 3-5, AS INDICATED ON EPSC PLAN SHEET ANGP-T-G-012.
 - LOD TAPE, FENCE, OR FLAGGING SHALL NOT CROSS ACTIVE ENTRANCE/EXITS OR IMPEDE DRAINAGE FLOW PATHS (E.G. SEDIMENT TRAP OUTFALL).
 - LOD SHALL BE EXTERNAL TO ANY JURISDICTIONAL WETLAND, WETLAND BUFFER, AND/OR OTHER NATURAL RESOURCE AREAS. THE CONTRACTOR SHALL PRESERVE AND PROTECT SAID AREAS TO THE EXTENT NECESSARY.



VHB Vanasse Hangen Brustlin, Inc.

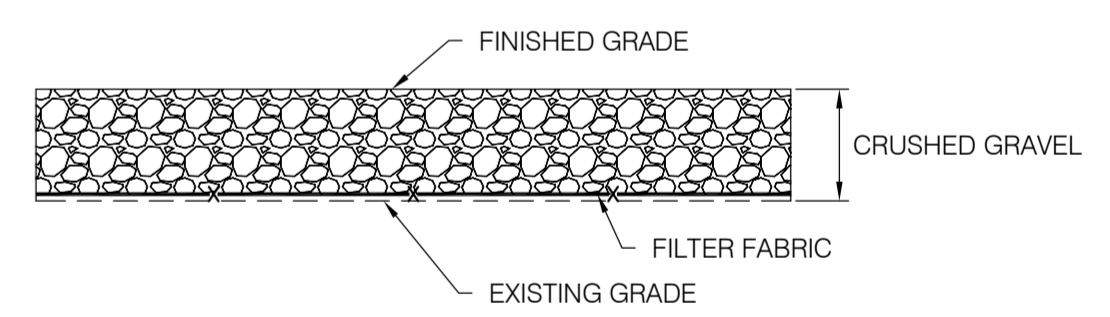
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR:	W.O.	SCALE:	DWG.	ANGP-T-G-022	REV.
										2016		1"=80'			0
										VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT WILLISTON PIPEYARD					
										LOC. CHITTENDEN COUNTY				38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.chiacompanies.com	

TOWN OF NEW HAVEN
ADDISON COUNTY



NOTES:

1. PURPOSE OF PLAN: TO SHOW A GENERAL LAYOUT CONFIGURATION OF A CONSTRUCTION LAYDOWN AREA (PIPE YARD) ON THE SHOWN PARCELS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA AND LOCAL REQUIREMENTS.
3. THIS PROJECT FALLS WITHIN THE INDIVIDUAL NPDES CONSTRUCTION STORMWATER PERMIT PROGRAM. THE CONTRACTOR SHALL FOLLOW THE CONDITIONS OF THE INDIVIDUAL PERMIT AND EROSION PREVENTION AND SEDIMENT CONTROL PLAN (EPSC).
4. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS BEFORE ANY EXCAVATION.
5. TOPSOIL IN ALL DISTURBED AREAS SHALL BE RESTORED TO ITS ORIGINAL CONDITION UPON DECOMMISSIONING OF SITE, PER STABILIZATION NOTES ON EPSC PLAN SHEET ANGP-T-G-011.
6. THE EXISTING FIELD, CONTAINS UNDERDRAINAGE/DRAINAGE TILE WHICH SHALL BE PROTECTED DURING CONSTRUCTION, IF UNDERDRAINAGE SYSTEM IS DAMAGED, IT SHALL BE REPLACED UPON DECOMMISSIONING OF SITE.
7. THE TEMPORARY SEDIMENT TRAP SHALL BE A 'STONE OUTLET SEDIMENT TRAP' AS INDICATED ON EPSC PLAN SHEET ANGP-T-G-016. THE TRAP SHALL BE INSTALLED SUCH THAT THE BOTTOM ELEVATION OF THE TRAP IS NO LOWER, THAN THE BOTTOM ELEVATION OF THE EXISTING TOP SOIL, TO PREVENT DAMAGE TO THE EXISTING UNDERDRAINAGE SYSTEM.
8. STORMWATER SHALL BE DIRECTED TO THE TEMPORARY SEDIMENT TRAP THROUGH THE USE OF DIVERSION SWALES, PIPES, WATER BARS OR BY OTHER APPROVED METHODS AND MEANS.
9. LIMIT OF DISTURBANCE (LOD) TAPE, AND/OR FENCE, AND/OR FLAGGING SHALL BE INSTALLED PER DETAILS 1 AND 3-5 AS INDICATED ON EPSC PLAN SHEET ANGP-T-G-012.
10. LOD TAPE, FENCE, OR FLAGGING SHALL NOT CROSS ACTIVE ENTRANCES/EXITS OR IMPEDE DRAINAGE FLOWPATHS (E.G. SEDIMENT TRAP OUTFALL).
11. DRAINAGE TILE LOCATIONS SHOWN HEREON ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE LAND OWNER AND CONTRACTOR THAT INSTALLED THE DRAINAGE INFRASTRUCTURE.
12. DEPTH OF CRUSHED GRAVEL SHALL BE DETERMINED BY CONTRACTOR BASED ON EXISTING SOIL CONDITIONS AND PIPE YARD MEANS AND METHODS.



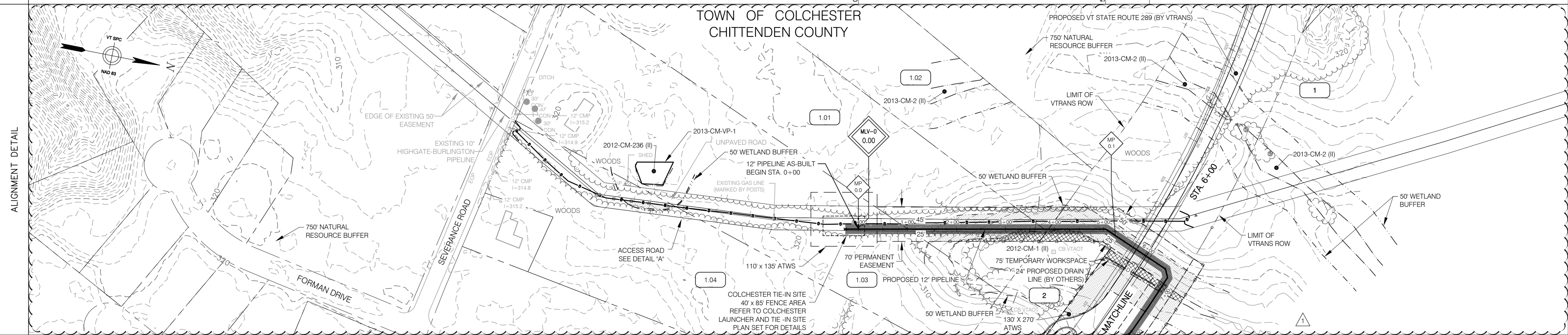
TYPICAL SECTION
(NTS)



VHB Vanasse Hangen Brustlin, Inc.

ENVIRONMENTAL		JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT PLANK ROAD PIPEYARD				
DRAFTING DESIGNER		GIL	06/28/13	GJM	05/2016					
DRAFTING SUPERVISOR		BZD	06/28/13	BCK	05/2016					
DESIGN ENGINEER		MDF	06/28/13	GEW	05/2016					
DESIGN MANAGER		SAB	06/28/13	JEO	05/2016					
INITIALS		DATE		INITIALS DATE						
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	YEAR: 2016	W.O.	SCALE: 1"=40'	DWG. ANGP-T-G-023	REV. 0

RIGHT-OF-WAY				0+00	1.03 N/F CADE, LAURETTE	1.01 N/F KILMOYER, RALPH; OTTEN, AMY	1.02 N/F PAGE, GARY L. & SUSAN D.	2 N/F STATE OF VERMONT	MATCHLINE
SURVEY DATA				0+00	N = 739409.5797 E = 1468514.8751	N 11° 10' W	33°42' RT 51.04	N 22° 30' E	



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND				
	<p>PERMANENT EASEMENT: [Symbol]</p> <p>TEMPORARY WORKSPACE: [Symbol]</p> <p>CENTERLINE OF STREAM: [Symbol]</p> <p>TEMPORARY STREAM CROSSING: [Symbol]</p> <p>WETLAND: [Symbol]</p> <p>50' WETLAND BUFFER: [Symbol]</p> <p>TEMPORARY WETLAND MATTING: [Symbol]</p> <p>WETLAND BUFFER WITHIN PROJECT AREA: [Symbol]</p> <p>REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL: [Symbol]</p>	<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>	<p>INSTALL CONSTRUCTION DEMARCATION:</p> <p>STA. 0+00 TO 0+38 RT - 35' FROM NEW 12" PIPE</p> <p>STA. 0+38 TO 5+19 RT - 25' FROM NEW 12" PIPE</p> <p>STA. 0+00 TO 0+38 LT - 75' FROM NEW 12" PIPE</p>	<p>INSTALL REINFORCED PERIMETER CONTROL:</p> <p>STA. 1+45 TO 5+19 RT - 25' FROM NEW 12" PIPE</p>	
	<p>INSTALL CONSTRUCTION DEMARCATION:</p> <p>STA. 5+19 TO 6+00 RT - WIDTH VARIES FROM NEW 12" PIPE</p> <p>STA. 0+38 TO 5+04 LT - 45' FROM NEW 12" PIPE</p> <p>STA. 5+04 TO 6+00 LT - 50' FROM NEW 12" PIPE</p>	<p>INSTALL REINFORCED PERIMETER CONTROL:</p> <p>STA. 5+19 TO 6+00 RT - WIDTH VARIES FROM NEW 12" PIPE</p>	<p>INSTALL STABILIZED CONSTRUCTION ENTRANCE:</p> <p>STA. 0+00</p>	<p>INSTALL MATTING:</p> <p>STA. 2+07 TO 4+86</p>	<p>INSTALL MATTING:</p> <p>STA. 5+19 TO 6+00</p>
				<p>HORIZONTAL SCALE</p> <p>100 50 0 100 200 300 feet</p> <p>VERTICAL SCALE</p> <p>100 50 0 100 200 300 feet</p>	

CONST. TYPE					1A	W	1G	W
SOIL TYPE				MyC (PAS)	ScB		ScA	MyC
LC/LU					GRASS RESIDENTIAL			
STREAMS								
WETLANDS					WETLAND 2012-CM-1 - STATION 1+45 TO 6+00 CLASS II			
VERNAL POOLS				0+00	2012-CM-VP-1			
SIGNIFICANT NATURAL COMMUNITIES								
RTE SPECIES								
NRC WILDLIFE HABITAT								
ARCHAEOLOGY SITES								

							BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN							
ANGP-T-G-007-010	ACCESS ROAD DETAILS						JLS	06/28/13	JLS	05/2016	LOC. CHITTENDEN COUNTY, VERMONT			YEAR: 2016	W.O.	SCALE: 1" = 100'
ANGP-T-G-021	STATION AND VALVE DETAILS						GIL	06/28/13	GJM	05/2016						
ANGP-T-C-001A	ALIGNMENT SHEET	1	GJM	BCK		IFC 2016 EDITS (05/2016)	BZD	06/28/13	BCK	05/2016						
DWG. NO.	REFERENCE DWG.	REV	DSN	CK		DESCRIPTION	INITIALS	DATE	INITIALS	DATE						

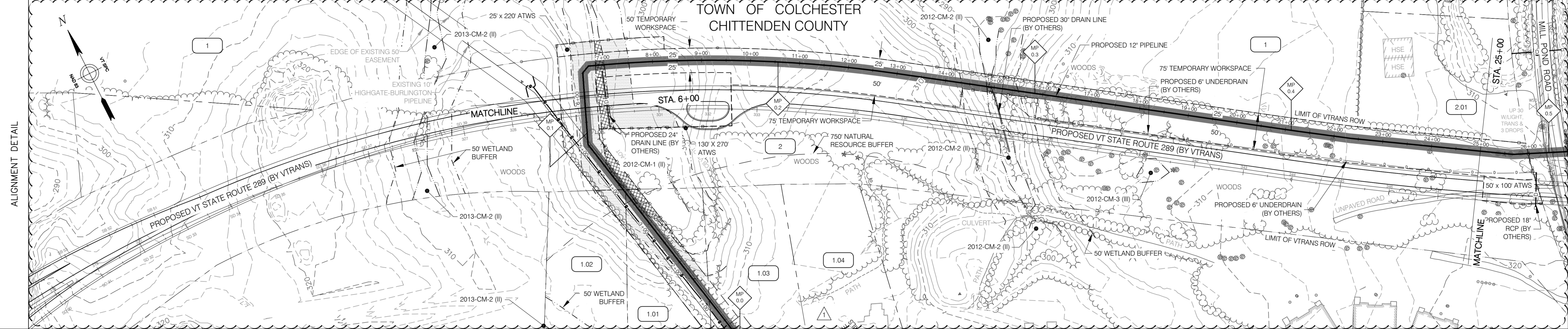
VHB Vanasse Hangen Brustlin, Inc.

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
EPSC PLAN

LOC. CHITTENDEN COUNTY, VERMONT

YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-001A REV. 1

RIGHT-OF-WAY																			
SURVEY DATA																			



EROSION PREVENTION & SEDIMENT CONTROL

PERMANENT EASEMENT	
TEMPORARY WORKSPACE	
CENTERLINE OF STREAM	
TEMPORARY STREAM CROSSING	
WETLAND	
50' WETLAND BUFFER	
TEMPORARY WETLAND MATTING	
WETLAND BUFFER WITHIN PROJECT AREA	
REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	

INSTALL CONSTRUCTION DEMARCATION:
 STA. 6+00 TO 9+61 RT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 6+00 TO 6+93 LT - WIDTH VARIES FROM NEW 12" PIPE ☒

INSTALL CONSTRUCTION DEMARCATION:
 STA. 9+61 TO 14+37 RT - 50' FROM NEW 12" PIPE ☒
 STA. 6+93 TO 8+26 LT - 50' FROM NEW 12" PIPE ☒

INSTALL CONSTRUCTION DEMARCATION:
 STA. 14+37 TO 15+91 RT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 15+91 TO 25+00 RT - 50' FROM NEW 12" PIPE ☒
 STA. 8+26 TO 25+00 RT - 25' FROM NEW 12" PIPE ☒

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 6+00 TO 9+20 RT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 6+51 TO 6+93 LT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 6+93 TO 7+95 LT - 50' FROM NEW 12" PIPE ☒

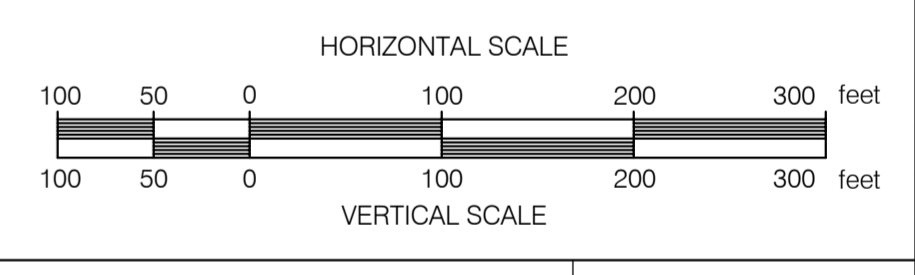
INSTALL REINFORCED PERIMETER CONTROL:
 STA. 13+94 TO 14+37 RT - 50' FROM NEW 12" PIPE ☒
 STA. 14+37 TO 15+91 RT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 15+91 TO 16+42 RT - 50' FROM NEW 12" PIPE ☒
 STA. 13+70 TO 15+93 LT - 25' FROM NEW 12" PIPE ☒

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 12+38 TO 13+68 RT - 25' FROM NEW 12" PIPE ☒
 STA. 13+68 TO 14+34 RT - 50' FROM NEW 12" PIPE ☒

INSTALL MATTING:
 STA. 6+00 TO 7+02

INSTALL MATTING:
 STA. 14+77 TO 15+00

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.



CONST. TYPE			1B				1B															
SOIL TYPE			Myc	ScB		Myc		HrA (PAS)			HrC				AaA (PAS)							AdB (PAS)
LC/LU			RESIDENTIAL								TRAVEL					RESIDENTIAL						
STREAMS																						
WETLANDS			WETLAND 2012-CM-1 - STATION 6+00 TO 7+53 CLASS II								WETLAND 2012-CM-02 - STATION 14+23 TO 15+55 CLASS II											
VERNAL POOLS																						
SIGNIFICANT NATURAL COMMUNITIES																						
RTE SPECIES																						
NRC WILDLIFE HABITAT																						
ARCHAEOLOGY SITES																						

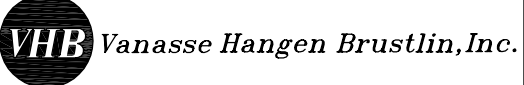
ANGP-T-C-001B			ALIGNMENT SHEET			1 GJM BCK			IFC 2016 EDITS (05/2016)																				
DWG. NO.			REFERENCE DWG.			REV DSN CK			DESCRIPTION			INITIALS		DATE		INITIALS		DATE		YEAR: 2016		W.O.		SCALE: 1" = 100'		DWG. ANGP-EPSC-001B		REV. 1	

BID		CONSTRUCTION	
ENVIRONMENTAL	JLS	06/28/13	JLS
DRAFTING DESIGNER	GIL	06/28/13	GJM
DRAFTING SUPERVISOR	BZD	06/28/13	BCK
DESIGN ENGINEER	MDF	06/28/13	GEW
DESIGN MANAGER	SAB	06/28/13	JEO

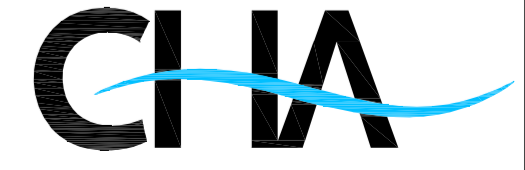
VERMONT GAS
 PROPOSED 12" PIPELINE
 ADDISON NATURAL GAS PROJECT
 EPSC PLAN

LOC. CHITTENDEN COUNTY, VERMONT

Vermont Gas

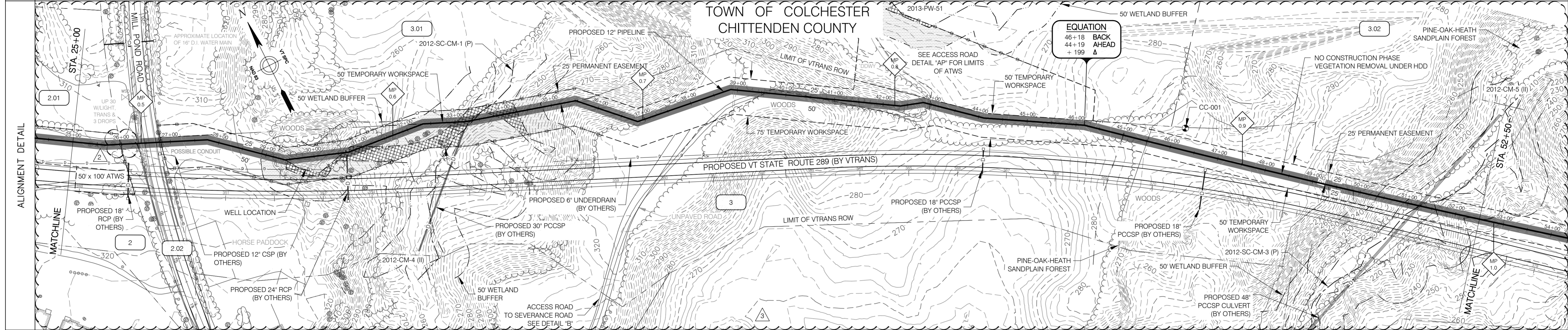


VHB Vanasse Hangen Brustlin, Inc.

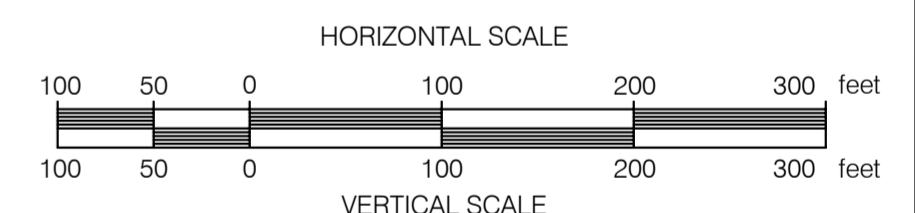


CIA
 38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 • www.chiacompanies.com

RIGHT-OF-WAY	MATCHLINE	2.01 N/F LINCKS, MICHAEL & ELIZABETH	2.02 MILL POND ROAD	3.01 N/F ROBERT H. SHANGRAW; MARION SHANGRAW LIFE ESTATE	3.01 N/F ROBERT H. SHANGRAW; MARION SHANGRAW LIFE ESTATE	3 N/F STATE OF VERMONT	3.01 N/F ROBERT H. SHANGRAW; MARION SHANGRAW LIFE ESTATE	3.02 N/F GAUTHIER, THERESA LEO & KEVIN	3.02 N/F GAUTHIER, THERESA LEO & KEVIN	MATCHLINE							
SURVEY DATA		S 57° 37' E 0837' LT 25+57	S 66° 13' E 1775' RT 27+75	S 48° 49' E 2176' LT 29+40	S 70° 14' E 1374' LT 30+21	S 84° 02' E 1749' RT 32+34	S 66° 13' E 0752' LT 33+23	S 74° 05' E 2970' RT 35+51	S 44° 45' E 3733' LT 36+85	S 82° 18' E 2436' RT 38+87	S 57° 42' E 1419' LT 42+35	S 72° 01' E 2378' RT 44+83	S 48° 53' E 10718' LT 44+11	S 59° 12' E 10718' RT 46+18 44+19 49+18	S 59° 21' E 0870' RT 45+98	S 51° 01' E 0419' RT 49+08	S 46° 42' E



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 25+00 TO 25+14 RT - 50' FROM NEW 12" PIPE € STA. 25+00 TO 25+67 LT - 25' FROM NEW 12" PIPE € STA. 25+14 TO 26+22 RT - WIDTH VARIES FROM NEW 12" PIPE € STA. 25+67 TO 25+94 LT - WIDTH VARIES FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 26+91 TO 42+26 RT - 50' FROM NEW 12" PIPE € STA. 26+76 TO 27+76 LT - WIDTH VARIES FROM NEW 12" PIPE € STA. 26+76 TO 41+37 LT - 25' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 41+37 TO 45+00 LT - WIDTH VARIES FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 42+26 TO 45+03 RT - WIDTH VARIES FROM NEW 12" PIPE € STA. 45+00 TO 52+50 LT - 25' FROM NEW 12" PIPE € STA. 45+03 TO 52+50 RT - 50' FROM NEW 12" PIPE €						
	PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL REINFORCED PERIMETER CONTROL: STA. 25+82 TO 26+22 RT - WIDTH VARIES FROM NEW 12" PIPE € STA. 25+41 TO 25+67 LT - 25' FROM NEW 12" PIPE € STA. 25+67 TO 25+94 LT - WIDTH VARIES FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 26+91 TO 27+41 RT - 50' FROM NEW 12" PIPE € STA. 26+76 TO 27+26 LT - 35' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 28+53 TO 36+26 RT - 50' FROM NEW 12" PIPE € STA. 28+44 TO 35+60 LT - 25' FROM NEW 12" PIPE €	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 26+00 & 26+83	INSTALL MATTING: STA. 29+40 TO 34+43	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 37+65				
<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>											
CONST. TYPE	1B	9	1C	1B	W	W	1C	1B	1C	8	
SOIL TYPE	AdA	AdB	Bo	HID	AdE	AdA	AdE	HnD	HnE	HIE	AdD
LC/LU	GRASS	PAVE	GRASS	TRAVEL	AGRICULTURE	TRAVEL	FOREST	AGRICULTURE	TRAVEL		
STREAMS	STREAM 2012-SC-CM-1 (P) - STATION 32+84 TO 33+83										STREAM 2012-SC-CM-3 (P) - STATION 51+70 TO 52+15
WETLANDS	WETLAND 2012-CM-4 - STATION 28+91 TO 35+25 CLASS II										WETLAND 2012-CM-5 - STATION 50+58 TO 52+50 CLASS II
VERNAL POOLS											
SIGNIFICANT NATURAL COMMUNITIES	PINE-OAK-HEATH SANDPLAIN FOREST										
RTE SPECIES											
NRC WILDLIFE HABITAT											
ARCHAEOLOGY SITES											



CONST. TYPE	1B	9	1C	1B	W	W	1C	1B	1C	8	
SOIL TYPE	AdA	AdB	Bo	HID	AdE	AdA	AdE	HnD	HnE	HIE	AdD
LC/LU	GRASS	PAVE	GRASS	TRAVEL	AGRICULTURE	TRAVEL	FOREST	AGRICULTURE	TRAVEL		
STREAMS	STREAM 2012-SC-CM-1 (P) - STATION 32+84 TO 33+83										STREAM 2012-SC-CM-3 (P) - STATION 51+70 TO 52+15
WETLANDS	WETLAND 2012-CM-4 - STATION 28+91 TO 35+25 CLASS II										WETLAND 2012-CM-5 - STATION 50+58 TO 52+50 CLASS II
VERNAL POOLS											
SIGNIFICANT NATURAL COMMUNITIES	PINE-OAK-HEATH SANDPLAIN FOREST										
RTE SPECIES											
NRC WILDLIFE HABITAT											
ARCHAEOLOGY SITES											

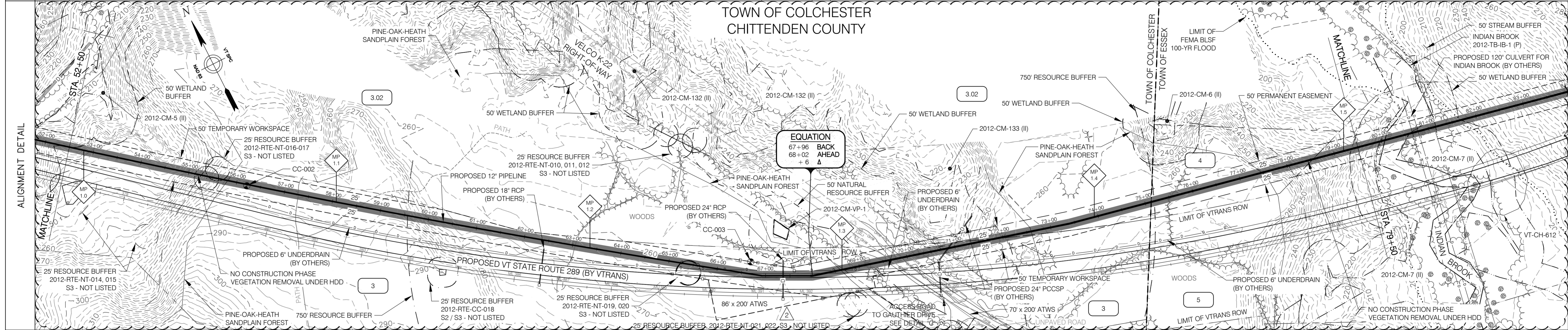
ANGP-T-G-007-010	ACCESS ROAD DETAILS	3	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN	Vermont Gas	LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-002	REV. 3
ANGP-T-C-002	ALIGNMENT SHEET	2	BCK	TDB	CP TEST LEAD EDIT (9/14/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016								
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN SUPERVISOR	BZD	06/28/13	BCK	05/2016								
						DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016								
						DESIGN MANAGER	SAB	06/28/13	JEO	05/2016								

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chacompanies.com

RIGHT-OF-WAY	MATCHLINE		3 N/F STATE OF VERMONT		3.02 N/F GAUTHIER, THERESA, LEO & KEVIN	4 N/F GAUTHIER, THERESA, LEO & KEVIN	5 N/F STATE OF VERMONT	MATCHLINE			
SURVEY DATA											
			S 46° 42' E	S 50° 14' E	S 57° 16' E	S 52° 24' E	S 56° 39' E	S 47° 11' E	S 65° 11' E	S 74° 46' E	S 78° 06' E
			03°32' LT	07°01' LT	04°52' RT	04°15' LT	02°31' LT	11°56' RT	15°59' LT	11°54' LT	03°21' LT
			56+51	58+27	60+04	62+72	64+34	65+00	67+01	68+04 Bk: 68+04 Atr: 68+02	73+39
										2.4 ft.	



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 52+50 TO 67+00 RT - 25' FROM NEW 12" PIPE
 STA. 52+50 TO 60+00 LT - 25' FROM NEW 12" PIPE

INSTALL CONSTRUCTION DEMARCATION:
 STA. 60+00 TO 64+00 LT - WIDTH VARIES FROM NEW 12" PIPE

INSTALL CONSTRUCTION DEMARCATION:
 STA. 67+00 TO 69+25 RT - 25' FROM NEW 12" PIPE
 STA. 64+00 TO 67+00 LT - 25' FROM NEW 12" PIPE

INSTALL CONSTRUCTION DEMARCATION:
 STA. 67+00 TO 68+00 LT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 69+25 TO 79+50 RT - 25' FROM NEW 12" PIPE
 STA. 68+00 TO 79+50 LT - 25' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 64+67 TO 65+17 RT - 25' FROM NEW 12" PIPE
 STA. 65+17 TO 65+67 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 65+67 TO 65+86 RT - 25' FROM NEW 12" PIPE
 STA. 66+25 TO 68+47 LT - WIDTH VARIES FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 65+86 TO 66+00 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 68+02 TO 69+52 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 69+90 TO 71+11 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 69+72 TO 71+79 LT - 25' FROM NEW 12" PIPE

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 70+00

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE 'CONSTRUCTION EPSC NOTES' - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE 'CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS' (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE
 100 50 0 100 200 300 feet

VERTICAL SCALE
 100 50 0 100 200 300 feet

CONST. TYPE		8		2C		8	
SOIL TYPE		AdD	AgA	AdD	AdA	AgE	AdA
LC/LU		FOREST					
STREAMS		TRAVEL					
WETLANDS	WETLAND 2012-CM-5 - STATION 52+50 TO 53+72 CLASS II	WETLAND 2012-CM-133 - STATION 70+22 TO 71+29 CLASS II				WETLAND 2012-CM-7 - STATION 79+37 TO 79+50 CLASS II	
VERNAL POOLS		VERNAL POOL 2012-CM-VP-1					
SIGNIFICANT NATURAL COMMUNITIES		PINE-OAK-HEATH SANDPLAIN FOREST					
RTE SPECIES		2012-RTE-NT-017		2012-RTE-NT-019, 020			
NRC WILDLIFE HABITAT							
ARCHAEOLOGY SITES							

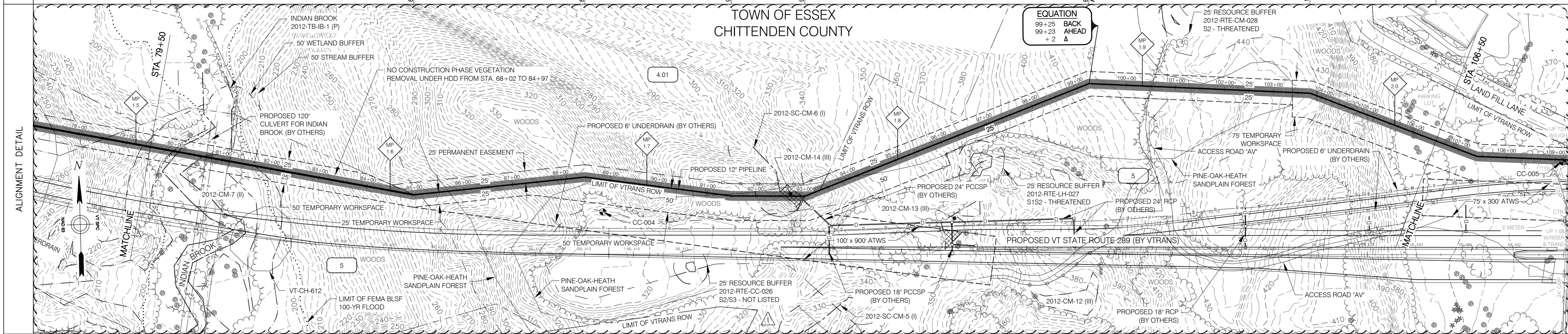
ANGP-T-G-007-010	ACCESS ROAD DETAILS	2	GJM	BCK	IFC 2016 EDITS (05/2016)	BID	JLS	06/28/13	CONSTRUCTION	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN				
ANGP-T-C-003	ALIGNMENT SHEET	1	BCK	TDB	VHB EDITS (6/09/15)	DRAFTING DESIGNER	GIL	06/28/13	DRAFTING SUPERVISOR	GJM	05/2016				LOC. CHITTENDEN COUNTY, VERMONT	
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN ENGINEER	MDF	06/28/13	DESIGN MANAGER	SAB	06/28/13	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-003	REV. 2

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 - www.chacompanies.com

RIGHT-OF-WAY	MATCHLINE	4.01 N/F TOWN OF ESSEX	5 N/F STATE OF VERMONT	MATCHLINE				
SURVEY DATA		S 78° 06' E	N 85° 40' E	S 81° 03' E	S 88° 12' E	N 69° 59' E	S 85° 55' E	S 67° 40' E
		16'14" LT	13'16" RT	07'08" LT	21'49" LT	24'05" RT 2' ft	18'15" RT	



LEGEND

PERMANENT EASEMENT: Dashed line with long dashes

TEMPORARY WORKSPACE: Dashed line with short dashes

CENTERLINE OF STREAM: Dotted line

TEMPORARY STREAM CROSSING: Hatched area

WETLAND: Stippled area

50' WETLAND BUFFER: Dashed line

TEMPORARY WETLAND MATTING: Cross-hatched area

WETLAND BUFFER WITHIN PROJECT AREA: Stippled area with dashed border

REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL: Dotted line with squares

INSTALL CONSTRUCTION DEMARCATION:
 STA. 79+50 TO 84+97 RT - 25' FROM NEW 12" PIPE
 STA. 79+50 TO 83+96 LT - 25' FROM NEW 12" PIPE

INSTALL CONSTRUCTION DEMARCATION:
 STA. 84+97 TO 93+29 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 83+96 TO 84+97 LT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 84+97 TO 106+50 LT - 25' FROM NEW 12" PIPE

INSTALL CONSTRUCTION DEMARCATION:
 STA. 93+29 TO 96+00 RT - 50' FROM NEW 12" PIPE
 STA. 96+00 TO 103+40 RT - 25' FROM NEW 12" PIPE
 STA. 103+40 TO 106+50 RT - 50' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 91+21 TO 93+58 LT - 25' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 95+66 TO 96+00 RT - 50' FROM NEW 12" PIPE
 STA. 96+00 TO 97+50 RT - 25' FROM NEW 12" PIPE
 ON ACCESS ROAD 'AV' AS SHOWN ON PLAN

INSTALL MATTING:
 STA. 92+47 TO 92+95

INSTALL MATTING:
 STA. 95+25 TO 95+71

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 100+25

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE 'CONSTRUCTION EPSC NOTES' - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE 'CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS' (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE: 1" = 100' feet
 VERTICAL SCALE: 1" = 10' feet

CONST. TYPE	8	2E	1C	W	1B
SOIL TYPE	AgE, Wo	AgE	AdA, AgE	AdD	Br, MyC, AdE, AdB, AdA
LC/LU	FOREST	OPEN WATER	FOREST	TRAVEL	
STREAMS	STREAM 2012-TB-IB-01 (P) - STATION 79+94 TO 81+14		STREAM 2012-SC-CM-6 (I) - STATION 92+46 TO 92+47		
WETLANDS	WETLAND 2012-CM-7 - STATION 79+50 TO 82+06 CLASS II		WETLAND 2012-CM-14 - STATION 91+92 TO 93+05 CLASS III	WETLAND 2012-CM-13 - STATION 95+25 TO 95+71 CLASS III	
VERNAL POOLS					
SIGNIFICANT NATURAL COMMUNITIES			PINE-OAK-HEATH SANDPLAIN FOREST		
RTE SPECIES				2012-RTE-LH-027	
NRC WILDLIFE HABITAT					
ARCHAEOLOGY SITES					

ANGP-T-C-004	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)															
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-004	REV. 1						

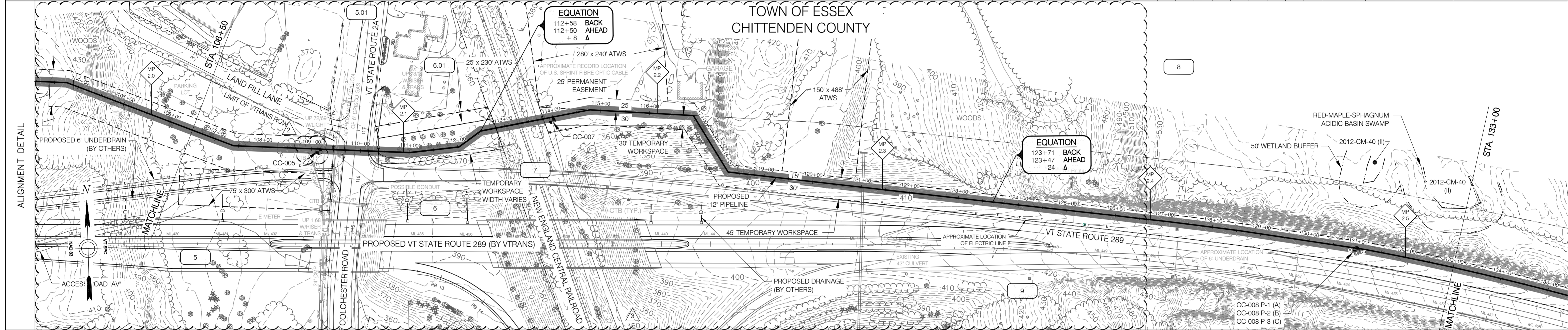
VHB Vanasse Hangen Brustlin, Inc.

CIA

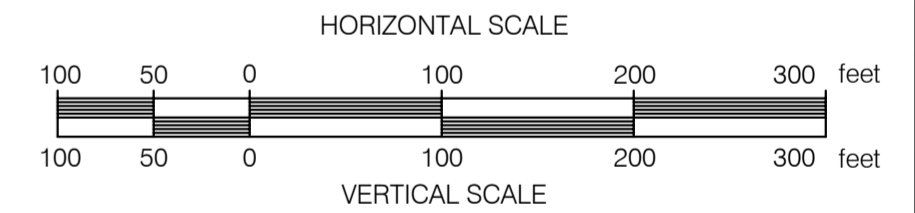
38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 - www.ciacompanies.com

Vermont Gas

RIGHT-OF-WAY			5 N/F STATE OF VERMONT	5.01 COLCHESTER ROAD VT STATE ROUTE 2A	6.01 N/F SISTERS AND BROTHERS INVEST GROUP LLC	6 N/F STATE OF VERMONT	7 N/F NEW ENGLAND CENTRAL RAILROAD	8 N/F LECLERC, LINDA & ARMAND A.	9 N/F STATE OF VERMONT																								
SURVEY DATA		18731' LT S 67° 40' E 107+40		S 86° 11' E	08'53" LT 111+02	29'31" LT 112+02	7.6' LT Bk: 112+58 M: 112+50 M: 251'4" RT	14'06" RT 114+78	55'21" RT 116+92	52'00" LT 118+28		123+47 S 82° 41' E	123+69 S 81° 20' E	123+88 S 82° 16' E	124+40 S 81° 56' E	124+72 S 82° 39' E	124+99 S 81° 43' E	125+18 S 82° 09' E	125+47 S 81° 56' E	125+73 S 82° 16' E	125+98 S 81° 23' E	126+23 S 81° 43' E	126+48 S 82° 03' E	126+77 S 82° 14' E	127+06 S 81° 23' E	127+34 S 81° 20' E	127+70 S 81° 03' E	128+04 S 81° 07' E	128+34 S 81° 06' E	128+57 S 79° 54' E	131+17 03'04" RT		S 76° 49' E



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 106+50 TO 107+40 RT - 50' FROM NEW 12" PIPE STA. 106+50 TO 109+29 LT - 25' FROM NEW 12" PIPE STA. 106+53 TO 109+31 RT - WIDTH VARIES FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 110+36 TO 112+85 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 110+31 TO 112+71 LT - WIDTH VARIES FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 113+85 TO 133+00 RT - 30' FROM NEW 12" PIPE STA. 113+77 TO 116+90 LT - 25' FROM NEW 12" PIPE STA. 116+90 TO 119+36 LT - 15' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 119+36 TO 120+86 LT - WIDTH VARIES FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 120+86 TO 133+00 LT - 15' FROM NEW 12" PIPE
	PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL REINFORCED PERIMETER CONTROL: STA. 108+81 TO 109+31 RT - 125' FROM NEW 12" PIPE STA. 108+79 TO 109+29 LT - 25' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 110+36 TO 110+80 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 110+31 TO 110+91 LT - WIDTH VARIES FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 112+35 TO 112+85 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 112+21 TO 112+71 LT - WIDTH VARIES FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 113+85 TO 114+35 RT - 30' FROM NEW 12" PIPE STA. 113+77 TO 113+80 LT - WIDTH VARIES FROM NEW 12" PIPE	
	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 109+31	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 116+17	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 120+11			
	1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6. 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.					



CONST. TYPE	1B		8		2E 3		3				
SOIL TYPE	AdA	EwB	AdA	MyB (PAS)	LyE	LyD	PeC	PsE	LyE	LyD	ScB
LC/LU	GRASS		PAVED	GRASS	RAILROAD		RESIDENTIAL		GRASS		OUTCROP
STREAMS											
WETLANDS	MATCH LINE										
VERNAL POOLS											
SIGNIFICANT NATURAL COMMUNITIES											
RTE SPECIES											
NRC WILDLIFE HABITAT											
ARCHAEOLOGY SITES											

ANGP-T-C-005A	RAILROAD CROSSING DETAIL	3	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN			
ANGP-T-G-007-010	ACCESS ROAD DETAILS	2	BCK	TDB	CP TEST LEAD EDIT (9/14/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016	LOC. CHITTENDEN COUNTY, VERMONT			
ANGP-T-C-005	ALIGNMENT SHEET	1	BCK	TDB	VHB EDITS (6/09/15)	DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016	YEAR: 2016	W.O.		
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016				REV. 3
						DESIGN MANAGER	SAB	06/28/13	JEO	05/2016				

VHB Vanasse Hangen Brustlin, Inc.

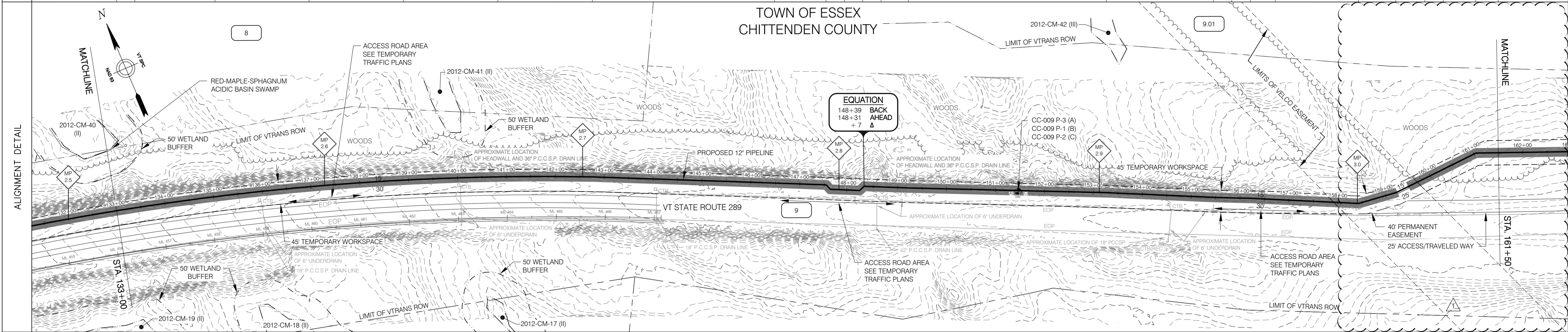
CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chacompanies.com

9
N/F
STATE OF VERMONT

STATE OF VERMONT

RIGHT-OF-WAY	SURVEY DATA	MATCHLINE
	S 76° 49' E	02701° RT
	S 74° 48' E	02701° RT
	S 72° 46' E	02701° RT
	S 70° 45' E	02701° RT
	S 68° 44' E	02701° RT
	S 66° 42' E	02701° RT
	S 64° 50' E	02701° RT
	S 64° 39' E	0011° RT
	S 19° 39' E	4500° LT
	S 64° 39' E	4500° LT
	N 70° 21' E	4500° LT
	Bk: 148+39 Ahd: 148+31 4500° RT	7.3 FL
		00743° LT
	S 65° 22' E	0108° RT
	S 64° 14' E	00757° LT
	S 65° 11' E	00715° LT
	S 65° 26' E	01724° RT
	S 64° 02' E	00700° RT
	S 64° 02' E	1851° LT
	S 62° 33' E	10709° LT
	N 86° 37' E	00700° RT
	N 86° 57' E	00700° LT
	N 86° 57' E	2525° RT
	S 67° 38' E	



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND
 PERMANENT EASEMENT
 TEMPORARY WORKSPACE
 CENTERLINE OF STREAM
 TEMPORARY STREAM CROSSING
 WETLAND
 50' WETLAND BUFFER
 TEMPORARY WETLAND MATTING
 WETLAND BUFFER WITHIN PROJECT AREA
 REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 133+00 TO 147+54 RT - 30' FROM NEW 12" PIPE ☒
 STA. 133+00 TO 147+54 LT - 15' FROM NEW 12" PIPE ☒

INSTALL CONSTRUCTION DEMARCATION:
 STA. 147+54 TO 148+31 RT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 148+31 TO 156+46 RT - 30' FROM NEW 12" PIPE ☒
 STA. 147+54 TO 148+31 LT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 148+31 TO 161+04 LT - 15' FROM NEW 12" PIPE ☒

INSTALL CONSTRUCTION DEMARCATION:
 STA. 155+46 TO 158+53 RT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 155+46 TO 158+53 RT - 25' FROM NEW 12" PIPE ☒

INSTALL CONSTRUCTION DEMARCATION:
 STA. 161+04 TO 161+50 RT - 25' FROM NEW 12" PIPE ☒
 STA. 161+04 TO 161+22 LT - WIDTH VARIES FROM NEW 12" PIPE ☒
 STA. 161+22 TO 161+50 LT - 25' FROM NEW 12" PIPE ☒

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 137+25
 STA. 147+50
 STA. 156+25

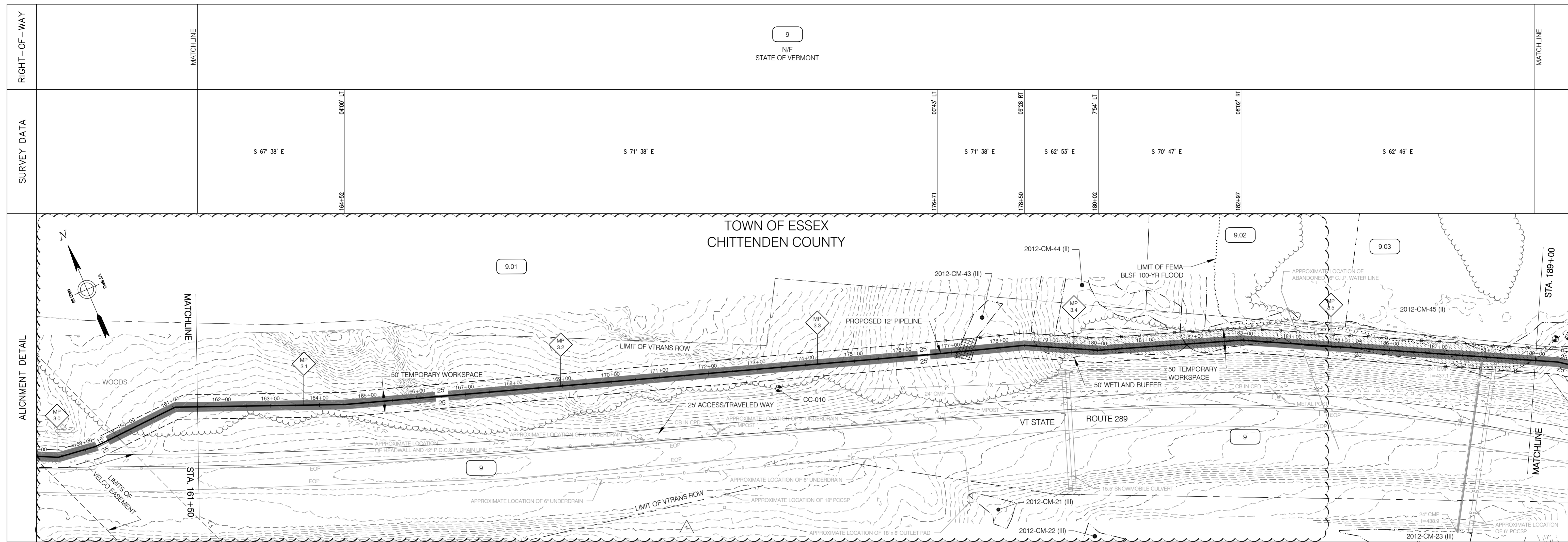
1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE: 1" = 100' (0 to 300 feet)
 VERTICAL SCALE: 1" = 20' (0 to 300 feet)

CONST. TYPE	3		2A	2C
SOIL TYPE	LyD	ScB	LyD	MyC
LC/LU	OUTCROP TRAVEL			
STREAMS				
WETLANDS	MATCH LINE			
VERNAL POOLS	MATCH LINE			
SIGNIFICANT NATURAL COMMUNITIES				
RTE SPECIES				
NRC WILDLIFE HABITAT				
ARCHAEOLOGY SITES				

ANGP-T-C-006	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)	BID ENVIRONMENTAL JLS 06/28/13 DRAFTING DESIGNER GIL 06/28/13 DRAFTING SUPERVISOR BZD 06/28/13 ENGINEER MDF 06/28/13 DESIGN MANAGER SAB 06/28/13	CONSTRUCTION JLS 05/2016 GJM 05/2016 BCK 05/2016 GEW 05/2016 JEO 05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN		 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 www.ciacompanies.com				
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-006	REV. 1

9
N/F
STATE OF VERMONT



LEGEND

PERMANENT EASEMENT	---
TEMPORARY WORKSPACE	----
CENTERLINE OF STREAM	—+—
TEMPORARY STREAM CROSSING	
WETLAND	~~~~~
50' WETLAND BUFFER	~~~~~
TEMPORARY WETLAND MATTING	
WETLAND BUFFER WITHIN PROJECT AREA	~~~~~
REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	===== —+—

INSTALL CONSTRUCTION DEMARCATION:
 STA. 161+50 TO 189+00 RT - 25' FROM NEW 12" PIPE
 STA. 161+50 TO 189+00 LT - 25' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 176+76 TO 189+00 LT - 25' FROM NEW 12" PIPE
 STA. 187+00 TO 189+00 RT - 25' FROM FROM NEW 12" PIPE

INSTALL MATTING:
 STA. 177+06 TO 177+55
 STA. 187+59 TO 188+44

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 10'

CONST. TYPE																						
SOIL TYPE	MyC		LyD			PsC		ScB		MyB		ScA		Lt		ScA	MyB					
LC/LU	FOREST																					
STREAMS																						
WETLANDS																		WETLAND 2012-CM-43 - STATION 177+06 TO 177+55 CLASS III		WETLAND 2012-CM-45 - STATION 187+59 TO 188+44 CLASS II		
VERNAL POOLS																						
SIGNIFICANT NATURAL COMMUNITIES																						
RTE SPECIES																						
NRC WILDLIFE HABITAT																						
ARCHAEOLOGY SITES																						

ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN LOC. CHITTENDEN COUNTY, VERMONT YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-007 REV. 1	 CIA 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 www.chacompanies.com
DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016		
DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016		
DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016		
DESIGN MANAGER	SAB	06/28/13	JEO	05/2016		
	INITIALS	DATE	INITIALS	DATE		

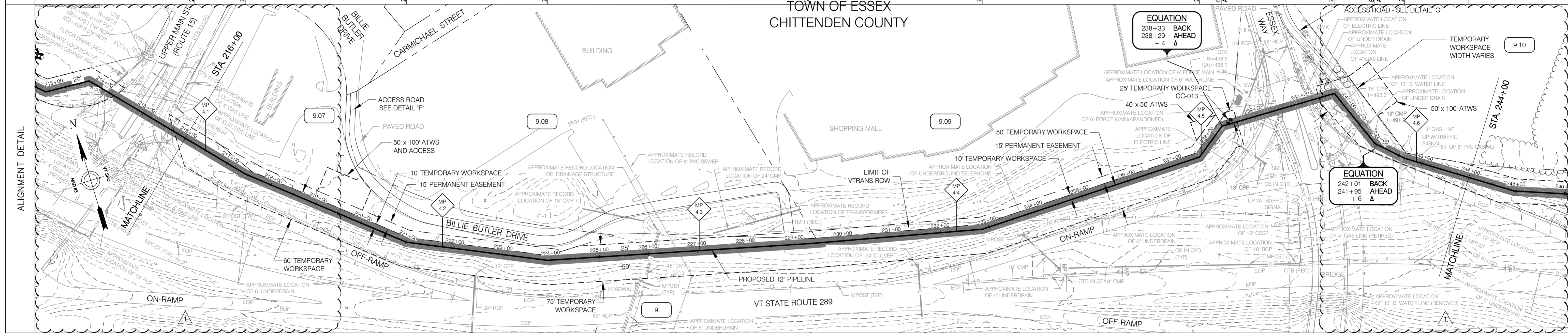
ANGP-T-C-007	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)				
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION				

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 · www.chacompanies.com

RIGHT-OF-WAY		9.07 N/F NAPOLI GROUP	9.08 N/F HANNAFORD BROS. CO.	9.09 N/F EUROWEST RETAIL PARTNERS LTD.	9.10 N/F SAYBROOK HOMEOWNERS ASSOCIATION
SURVEY DATA		S 42° 15' E 0004' RT S 42° 12' E 0757' LT	S 50° 09' E 1536' LT S 65° 47' E 1076' LT	S 76° 44' E 0197' LT S 77° 51' E 1336' LT	N 88° 31' E 3533' LT N 52° 58' E 3745' RT S 89° 18' E 6711' RT S 22° 06' E 57' LT S 46° 43' E 0943' LT S 56° 26' E



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:

- STA. 216+00 TO 216+28 RT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 216+00 TO 218+93 LT - 25' FROM NEW 12" PIPE
- STA. 216+28 TO 238+61 RT - 50' FROM NEW 12" PIPE
- STA. 218+93 TO 219+93 LT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 219+93 TO 223+78 LT - 25' FROM NEW 12" PIPE
- STA. 223+78 TO 224+58 LT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 224+58 TO 237+78 LT - 25' FROM NEW 12" PIPE
- STA. 237+78 TO 238+61 LT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 238+29 TO 238+61 LT - 25' FROM NEW 12" PIPE
- STA. 240+36 TO 244+00 RT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 240+35 TO 244+00 LT - WIDTH VARIES FROM NEW 12" PIPE

INSTALL STABILIZED CONSTRUCTION ENTRANCE:

- STA. 219+76
- STA. 228+91
- STA. 240+69

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.

2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE: 1" = 100'

VERTICAL SCALE: 1" = 10'

CONST. TYPE		1F	1B	1F	9	2C													
SOIL TYPE	LmB	CaA	MyB	ScB	ScB	MyB	ScB	ScB	MyB	ScB	ScB	MyB	ScB	ScB	MyB	ScB	ScA	ScB	
LC/LU																			
STREAMS																			
WETLANDS																			
VERNAL POOLS																			
SIGNIFICANT NATURAL COMMUNITIES																			
RTE SPECIES																			
NRC WILDLIFE HABITAT																			
ARCHAEOLOGY SITES																			

ANGP-T-G-007-010	ACCESS ROAD DETAILS																			
ANGP-T-C-009	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)															
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-009	REV. 1						

VHB Vanasse Hangen Brustlin, Inc.

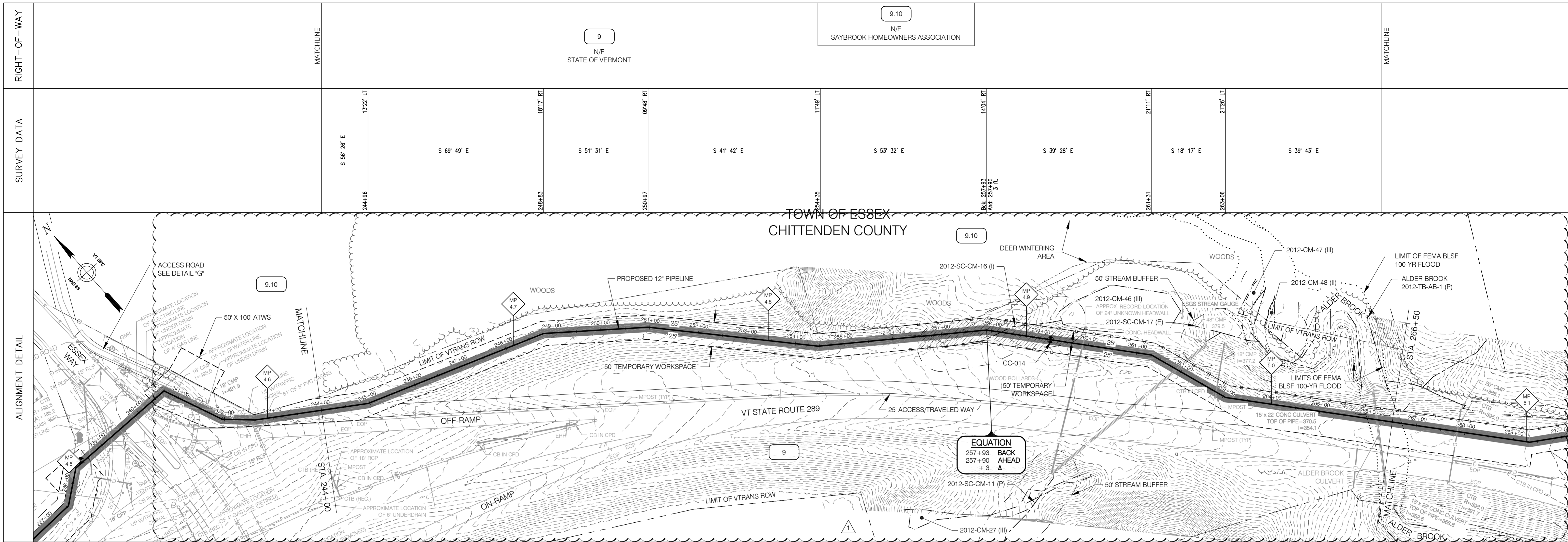
CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chiacompanies.com

Vermont Gas

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
EPSC PLAN

LOC. CHITTENDEN COUNTY, VERMONT



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 244+00 TO 245+97 RT - WIDTH VARIES FROM NEW 12" PIPE ±
 STA. 244+00 TO 266+50 LT - 25' FROM NEW 12" PIPE ±

INSTALL CONSTRUCTION DEMARCATION:
 STA. 245+97 TO 263+06 RT - 25' FROM NEW 12" PIPE ±

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 255+99 TO 260+12 RT - 25' FROM NEW 12" PIPE ±
 STA. 256+13 TO 266+50 LT - 25' FROM NEW 12" PIPE ±

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE: 1" = 100'
 VERTICAL SCALE: 1" = 100'

CONST. TYPE					(2C)					(1B)
SOIL TYPE	ScB	DdA	HIE	DdA		AgE			Au	
LC/LU	GRASS TRAVEL									
STREAMS						STREAM 2012-SC-CM-16 (I) - STATION 256+49 TO 259+85	STREAM 2012-TB-AB-1 (P) - STATION 265+40 TO 266+50			
WETLANDS	MATCH LINE									
VERNAL POOLS										
SIGNIFICANT NATURAL COMMUNITIES										
RTE SPECIES										
NRC WILDLIFE HABITAT	DEER WINTERING AREA									
ARCHAEOLOGY SITES										

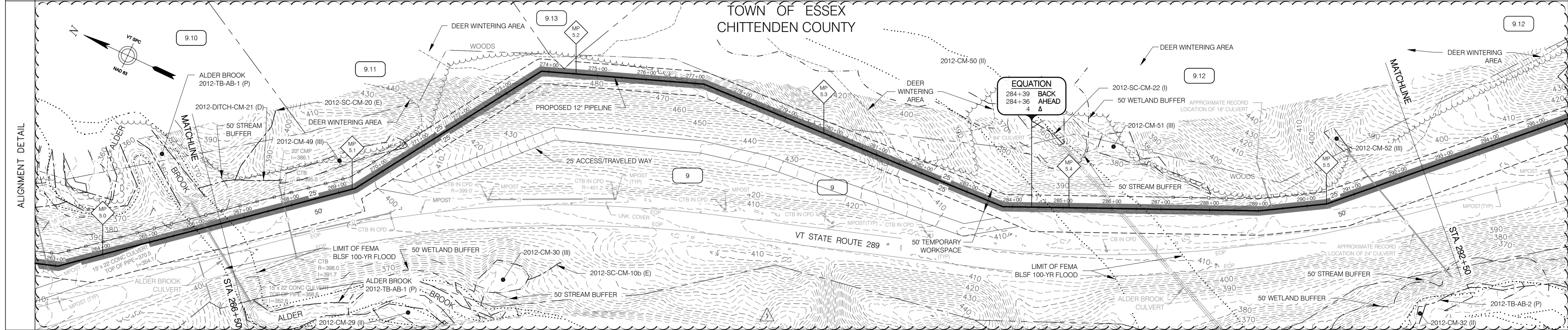
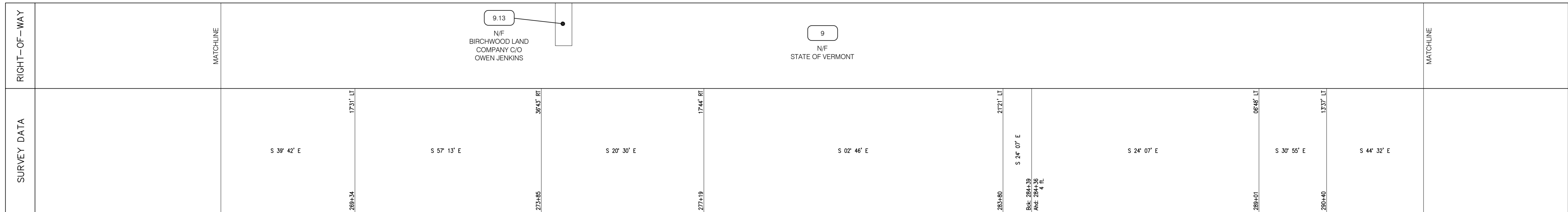
ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN	LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-010	REV. 1
DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016							
DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016							
DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016							
DESIGN MANAGER	SAB	06/28/13	JEO	05/2016							
ANGP-T-C-010	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)						
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE		

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 • www.chacompanies.com

Vermont Gas



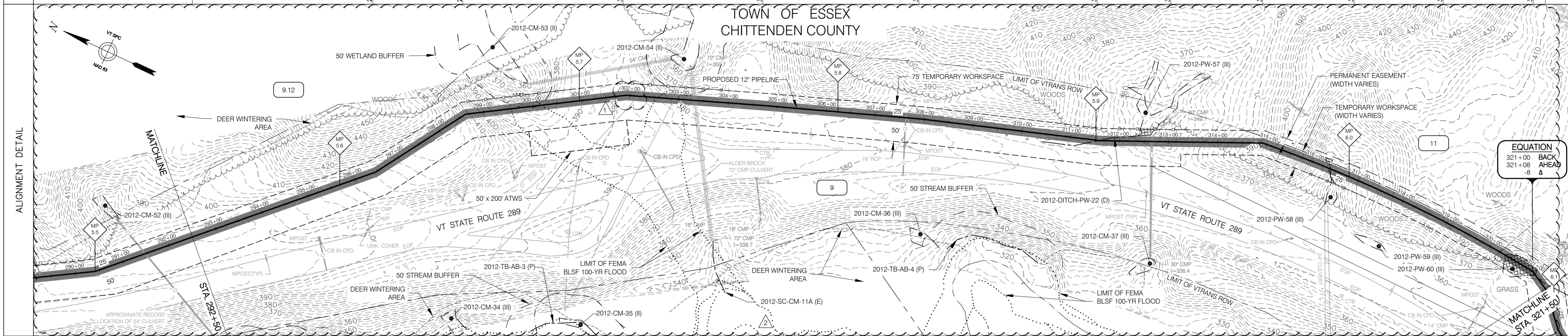
EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	<p>INSTALL CONSTRUCTION DEMARCATION: STA. 266+50 TO 269+85 RT - 50' FROM NEW 12" PIPE € STA. 266+50 TO 274+11 LT - 25' FROM NEW 12" PIPE €</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 266+50 TO 271+21 LT - 25' FROM NEW 12" PIPE €</p>	<p>INSTALL CONSTRUCTION DEMARCATION: STA. 269+85 TO 284+36 RT - 25' FROM NEW 12" PIPE € STA. 274+11 TO 274+46 LT - WIDTH VARIES FROM NEW 12" PIPE € STA. 274+46 TO 292+50 LT - 25' FROM NEW 12" PIPE €</p> <p>INSTALL MATTING: STA. 270+40 TO 270+73</p>	<p>INSTALL CONSTRUCTION DEMARCATION: STA. 284+36 TO 292+50 RT - 50' FROM NEW 12" PIPE €</p> <p>INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 284+75</p>	<p>INSTALL REINFORCED PERIMETER CONTROL: STA. 286+83 TO 288+51 LT - 25' FROM NEW 12" PIPE €</p>
	<p>PERMANENT EASEMENT</p> <p>TEMPORARY WORKSPACE</p> <p>CENTERLINE OF STREAM</p> <p>TEMPORARY STREAM CROSSING</p> <p>WETLAND</p> <p>50' WETLAND BUFFER</p> <p>TEMPORARY WETLAND MATTING</p> <p>WETLAND BUFFER WITHIN PROJECT AREA</p> <p>REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL</p>	<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>	<p>HORIZONTAL SCALE</p> <p>VERTICAL SCALE</p>		

CONST. TYPE	1B		2C		1B	
SOIL TYPE	Au	AgE	AdA	AgE	AdA	AgE
LC/LU	GRASS TRAVEL					
STREAMS	STREAM 2012-TB-AB-1 (P) - STATION 266+50 TO 266+67					
WETLANDS	WETLAND 2012-CM-49 - STATION 270+40 TO 270+73 CLASS III					
VERNAL POOLS						
SIGNIFICANT NATURAL COMMUNITIES						
RTE SPECIES						
NRC WILDLIFE HABITAT	DEER WINTERING AREA					
ARCHAEOLOGY SITES						

ANGP-T-C-011	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL		CONSTRUCTION		VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN		Vermont Gas	<p>38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.ciacompanies.com</p>
						JLS	06/28/13	JLS	05/2016	LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016		
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE				

VHB Vanasse Hangen Brustlin, Inc.

RIGHT-OF-WAY	MATCHLINE	9 N/F STATE OF VERMONT										11 N/F FORESTDALE GROUP, LLC		MATCHLINE
SURVEY DATA		S 44° 32' E	S 57° 48' E	S 31° 45' E	S 20° 48' E	S 20° 10' E	S 18° 10' E	S 24° 05' E	S 24° 20' E	S 02° 53' E	S 00° 15' W	S 05° 01' W	S 25° 18' W	



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 292+50 TO 299+87 RT - 50' FROM NEW 12" PIPE €
 STA. 292+50 TO 314+55 LT - 25' FROM NEW 12" PIPE €

INSTALL CONSTRUCTION DEMARCATION:
 STA. 299+87 TO 301+88 RT - 100' FROM NEW 12" PIPE €

INSTALL CONSTRUCTION DEMARCATION:
 STA. 301+88 TO 313+25 RT - 50' FROM NEW 12" PIPE €

INSTALL CONSTRUCTION DEMARCATION:
 STA. 313+25 TO 314+95 RT - 25' FROM NEW 12" PIPE €

INSTALL CONSTRUCTION DEMARCATION:
 STA. 314+95 TO 321+50 RT - WIDTH VARIES FROM NEW 12" PIPE €
 STA. 314+55 TO 321+50 LT - WIDTH VARIES FROM NEW 12" PIPE €

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 298+77 TO 300+89 LT - 25' FROM NEW 12" PIPE €

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 301+95 TO 304+17 LT - 25' FROM NEW 12" PIPE €

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 311+92 TO 313+42 LT - 25' FROM NEW 12" PIPE €

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 315+90 TO 317+18 RT - 25' FROM NEW 12" PIPE €

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 293+50

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 311+50

INSTALL MATTING:
 STA. 316+25 TO 316+49
 STA. 320+40 TO 321+16

HORIZONTAL SCALE
 100 50 0 100 200 300 feet

VERTICAL SCALE
 100 50 0 100 200 300 feet

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

CONST. TYPE	1B										7	1B	W	2C	W	1D	W																																	
SOIL TYPE	AgE										DdB																																							
LC/LU	GRASS										TRAVEL																																							
STREAMS											STREAM 2012-DITCH-PW-22 - (D) STATION 310+44 TO 312+38																																							
WETLANDS	WETLAND 2012-CM-53 - STATION 299+27 TO 300+39 CLASS II										WETLAND 2012-CM-54 - STATION 302+71 TO 303+56 CLASS II										WETLAND 2012-PW-57 - STATION 312+38 TO 312+72 CLASS III										WETLAND 2012-PW-58 - STATION 316+25 TO 316+60 CLASS III										WETLAND 2012-PW-60 - STATION 320+34 TO 321+15 CLASS III									
VERNAL POOLS																																																		
SIGNIFICANT NATURAL COMMUNITIES																																																		
RTE SPECIES																																																		
NRC WILDLIFE HABITAT																					DEER WINTERING AREA																													
ARCHAEOLOGY SITES																																																		

ANGP-T-C-012	ALIGNMENT SHEET	2	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN		LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-012	REV. 2							
DWG. NO.	REFERENCE DWG.	1	BCK	TDB	CP TEST LEAD EDIT (9/14/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016	DESIGNING SUPERVISOR	BZD							06/28/13	BCK	05/2016	DESIGN ENGINEER	MDF	06/28/13	GEW

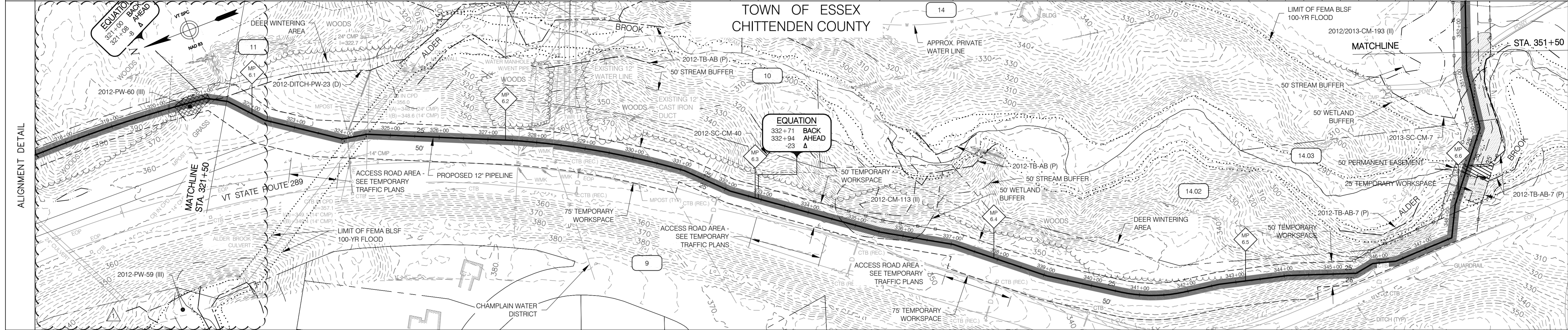
VHB Vanasse Hangen Brustlin, Inc.

CIA

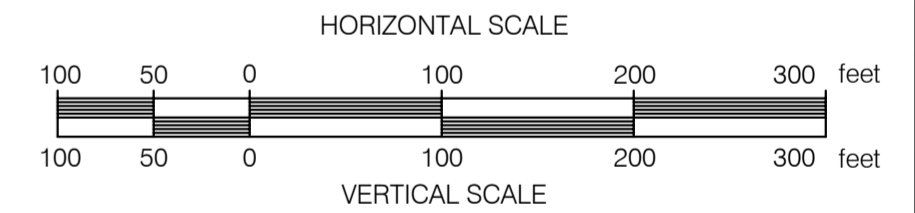
38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 - www.ciacompanies.com

Vermont Gas

RIGHT-OF-WAY		11 N/F FORESTDALE GROUP, LLC	9 N/F STATE OF VERMONT	14.02 N/F RAYMOND, FRANCIS E. & ELAINE B.	14.03 N/F RAYMOND, FRANCIS E., ELAINE B. & PETER W.	14 N/F STEINER, PAUL M.
SURVEY DATA		S 29° 18' W 16'40" RT S 47° 59' W 13'20" LT S 34° 38' W S 10° 27' W 24'10" LT S 23° 29' W S 26° 08' W 02'38" RT S 26° 06' W 01'58" RT S 30° 05' W 01'58" RT S 32° 03' W 01'58" RT S 34° 02' W 01'58" RT S 36° 00' W 01'58" RT S 45° 01' W 09'00" RT S 36° 23' W 08'38" LT -23.1' LT S 36° 23' W S 30° 39' W S 39° 40' W S 33° 24' W 06'15" LT S 32° 27' W 00'57" LT S 30° 32' W 01'54" LT S 28° 38' W 01'54" LT S 26° 43' W 01'54" LT S 24° 49' W 01'54" LT S 22° 55' W 01'54" LT S 21° 00' W 01'54" LT S 19° 06' W 01'54" LT S 17° 11' W 01'54" LT S 15° 17' W 01'54" LT S 13° 23' W 01'54" LT S 11° 28' W 01'54" LT S 09° 34' W 00'57" LT S 08° 37' W 05'15" RT S 13° 52' W 05'19" RT S 19° 12' W 28'44" LT S 09° 33' E 24'40" RT S 15° 08' W 16'44" LT S 01° 36' E 61'21" LT S 62° 58' E 12'03" RT S 50° 55' E 31'10" LT S 82° 05' E 12'02" RT S 70° 03' E				



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 321+50 TO 324+52 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 321+50 TO 324+52 LT - WIDTH VARIES FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 324+52 TO 331+04 RT - 50' FROM NEW 12" PIPE STA. 324+52 TO 345+86 LT - 25' FROM NEW 12" PIPE STA. 331+04 TO 337+04 RT - 25' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 337+04 TO 344+68 RT - 50' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 344+68 TO 345+34 RT - 25' FROM NEW 12" PIPE STA. 345+34 TO 347+74 RT - WIDTH VARIES FROM FROM NEW 12" PIPE STA. 345+86 TO 347+95 LT - WIDTH VARIES FROM FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 347+83 TO 348+90 RT - 50' FROM NEW 12" PIPE STA. 345+07 TO 347+95 LT - WIDTH VARIES FROM NEW 12" PIPE STA. 347+95 TO 348+95 LT - 25' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 347+74 TO 349+83 RT - 50' FROM NEW 12" PIPE STA. 347+95 TO 351+50 LT - 25' FROM NEW 12" PIPE STA. 349+83 TO 351+50 RT - WIDTH VARIES FROM NEW 12" PIPE
	<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>	<p>INSTALL REINFORCED PERIMETER CONTROL: STA. 334+00 TO 336+94 LT - 25' FROM NEW 12" PIPE</p>		<p>INSTALL REINFORCED PERIMETER CONTROL: STA. 347+83 TO 348+90 RT - 50' FROM NEW 12" PIPE STA. 345+07 TO 347+95 LT - WIDTH VARIES FROM NEW 12" PIPE STA. 347+95 TO 348+95 LT - 25' FROM NEW 12" PIPE</p>		<p>INSTALL REINFORCED PERIMETER CONTROL: STA. 349+40 TO 351+41 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 351+41 TO 351+50 RT - 50' FROM NEW 12" PIPE STA. 349+10 TO 351+50 LT - 25' FROM NEW 12" PIPE</p>	



CONST. TYPE	1D	1B	2C	1B	2C	1E	7	1E		
SOIL TYPE	HIE	DdB (PAS)	AgE	AdB (PAS)	AgE	HIE	AgA	HIE		
LC/LU	GRASS							BROOK	GRASS	GRASS/STREAM
STREAMS	2012-DITCH-PW-23 (D) - STATION 321+50 TO 321+72							NOT CLASSIFIED	UNKNOWN	RESIDENTIAL
WETLANDS	MATCH LINE			WETLAND 2012-CM-113 - STATION 334+50 TO 336+44 CLASS II	STREAM 2013-SC-CM-7 - STATION 350+55 TO 351+10					
VERNAL POOLS	MATCH LINE									
SIGNIFICANT NATURAL COMMUNITIES	MATCH LINE									
RTE SPECIES	MATCH LINE									
NRC WILDLIFE HABITAT	DEER WINTERING AREA			DEER WINTERING AREA						
ARCHAEOLOGY SITES	MATCH LINE									

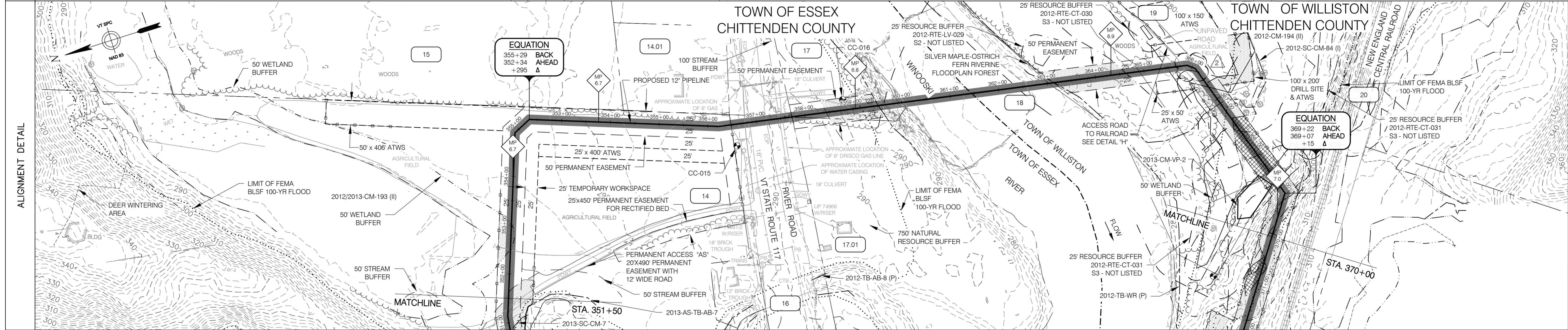
ANGP-T-C-013	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)	BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN			
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE		
						ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	LOC. CHITTENDEN COUNTY, VERMONT YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-013 REV. 1
						DRAFTING DESIGNER	GLJ	06/28/13	GJM	05/2016	
						DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016	
						DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016	
						DESIGN MANAGER	SAB	06/28/13	JEO	05/2016	

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chiacompanies.com

RIGHT-OF-WAY																						
SURVEY DATA																						

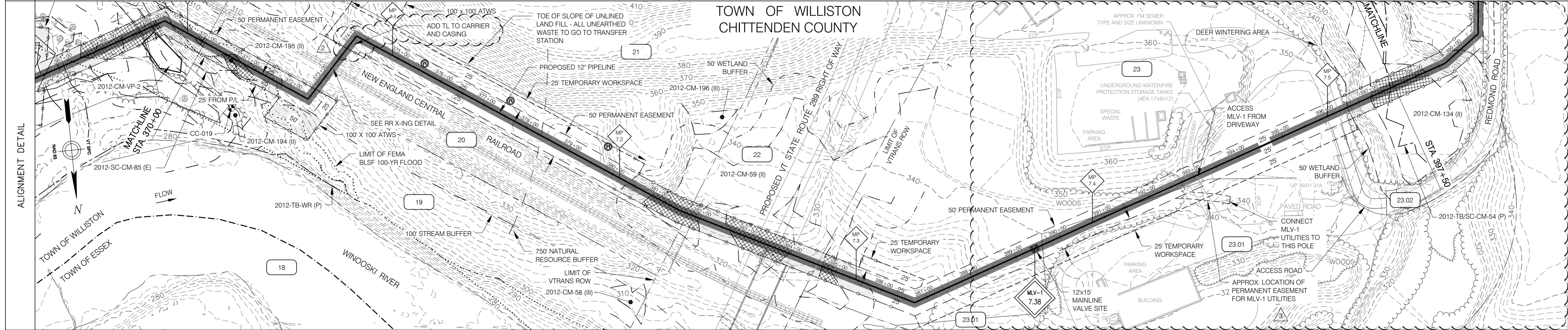


EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION:			INSTALL CONSTRUCTION DEMARCATION:			INSTALL CONSTRUCTION DEMARCATION:			INSTALL CONSTRUCTION DEMARCATION:			INSTALL CONSTRUCTION DEMARCATION:								
		STA. 351+50 TO 354+43 RT - 50' FROM NEW 12" PIPE €	STA. 351+50 TO 354+89 LT - 25' FROM NEW 12" PIPE €	STA. 354+89 TO 355+29 LT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 354+43 TO 352+56 RT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 352+56 TO 356+20 RT - 75' FROM NEW 12" PIPE €	STA. 356+20 TO 356+50 RT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 355+29 TO 356+47 LT - 25' FROM NEW 12" PIPE €	STA. 357+74 TO 359+64 RT - 25' FROM NEW 12" PIPE €	STA. 363+38 TO 365+22 RT - 25' FROM NEW 12" PIPE €	STA. 362+89 TO 365+22 LT - 25' FROM NEW 12" PIPE €	STA. 365+22 TO 365+89 RT - 50' FROM NEW 12" PIPE €	STA. 365+22 TO 366+68 LT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 365+89 TO 366+41 RT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 366+41 TO 370+00 RT - 25' FROM NEW 12" PIPE €	STA. 366+68 TO 370+00 LT - 25' FROM NEW 12" PIPE €						
		INSTALL REINFORCED PERIMETER CONTROL:			INSTALL REINFORCED PERIMETER CONTROL:			INSTALL REINFORCED PERIMETER CONTROL:			INSTALL REINFORCED PERIMETER CONTROL:			INSTALL REINFORCED PERIMETER CONTROL:								
		STA. 351+50 TO 352+45 RT - 50' FROM NEW 12" PIPE €	STA. 351+50 TO 353+75 LT - 25' FROM NEW 12" PIPE €	STA. 354+89 TO 355+29 LT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 356+22 TO 356+50 RT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 355+93 TO 356+27 LT - 50' FROM NEW 12" PIPE €	STA. 356+27 TO 356+47 LT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 357+74 TO 359+64 RT - 25' FROM NEW 12" PIPE €	STA. 363+38 TO 365+22 RT - 25' FROM NEW 12" PIPE €	STA. 362+89 TO 365+22 LT - 25' FROM NEW 12" PIPE €	STA. 365+22 TO 365+89 RT - 50' FROM NEW 12" PIPE €	STA. 365+22 TO 366+68 LT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 365+89 TO 366+41 RT - WIDTH VARIES FROM NEW 12" PIPE €	STA. 366+41 TO 370+00 RT - 25' FROM NEW 12" PIPE €	STA. 366+68 TO 370+00 LT - 25' FROM NEW 12" PIPE €							
		INSTALL STABILIZED CONSTRUCTION ENTRANCE:						INSTALL STABILIZED CONSTRUCTION ENTRANCE:			INSTALL MATTING:			HORIZONTAL SCALE								
		STA. 356+48 & STA. 357+74						STA. 365+70			STA. 367+20 TO 369+23			100 50 0 100 200 300 feet								
		1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.																				
		2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.																				
CONST. TYPE																						
SOIL TYPE																						
LC/LU																						
STREAMS																						
WETLANDS																						
VERNAL POOLS																						
SIGNIFICANT NATURAL COMMUNITIES																						
RTE SPECIES																						
NRC WILDLIFE HABITAT																						
ARCHAEOLOGY SITES																						



VERMONT GAS
 PROPOSED 12" PIPELINE
 ADDISON NATURAL GAS PROJECT
 EPSC PLAN
 LOC. CHITTENDEN COUNTY, VERMONT
 YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-014 REV. 2

RIGHT-OF-WAY		19 N/F BABCOCK, JAMES	20 N/F NEW ENGLAND CENTRAL RAILROAD	21 N/F CHITTENDEN SOLID WASTE DISTRICT	22 N/F STATE OF VERMONT; AGENCY OF TRANSPORTATION	23 N/F CHITTENDEN SOLID WASTE DISTRICT	23.01 N/F BURLINGTON TRANSFER STATION	23.01 N/F BURLINGTON TRANSFER STATION	23 N/F CHITTENDEN SOLID WASTE DISTRICT	
SURVEY DATA		N 55° 32' W	S 43° 23' W	N 55° 50' W	N 62° 46' W			S 71° 31' W		



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 370+00 TO 371+88 RT - 25' FROM NEW 12" PIPE STA. 370+00 TO 372+20 LT - 25' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 371+88 TO 372+74 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 373+64 TO 380+47 LT - 50' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 373+76 TO 386+73 RT - 25' FROM NEW 12" PIPE STA. 380+47 TO 385+40 LT - 25' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 386+73 TO 396+50 RT - 50' FROM NEW 12" PIPE STA. 396+50 TO 397+50 RT - 25' FROM NEW 12" PIPE STA. 385+40 TO 386+98 LT - 50' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 386+98 TO 397+50 LT - 25' FROM NEW 12" PIPE
	PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL REINFORCED PERIMETER CONTROL: STA. 370+00 TO 371+88 RT - 25' FROM NEW 12" PIPE STA. 370+00 TO 372+20 LT - 25' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 371+88 TO 372+41 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 373+76 TO 374+70 RT - 25' FROM NEW 12" PIPE STA. 373+64 TO 374+04 LT - 50' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 379+80 TO 386+43 RT - 25' FROM NEW 12" PIPE STA. 380+22 TO 380+47 LT - 50' FROM NEW 12" PIPE STA. 380+47 TO 385+40 LT - 25' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 385+40 TO 385+90 LT - 50' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 396+14 TO 396+16 RT - WIDTH VARIES FROM NEW 12" PIPE STA. 396+16 TO 396+50 RT - 50' FROM NEW 12" PIPE STA. 396+50 TO 397+50 RT - 25' FROM NEW 12" PIPE STA. 396+04 TO 397+50 LT - 25' FROM NEW 12" PIPE
		INSTALL MATTING: STA. 380+80 TO 382+09	INSTALL MATTING: STA. 382+48 TO 384+04	INSTALL MATTING: STA. 384+67 TO 385+20	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 396+07	INSTALL MATTING: STA. 396+94 TO 397+50

CONST. TYPE	(W) (2A) (10) (1A) (W) (2A) (W) (W) (1A) (1E) (7) (W)
SOIL TYPE	Au AgD ADA (PAS) AgD
LC/LU	AGRICULTURAL FIELD RAILROAD FORESTED ROAD FORESTED ROAD FORESTED
STREAMS	STREAM 2012-SC-CM-85 (E) - STATION 370+73 TO 370+85
WETLANDS	WETLAND 2012-CM-195 - STATION 370+00 TO 371+82 CLASS II
VERNAL POOLS	VERNAL POOL BUFFER 2012-CM-PWP2 STATION 370+00 TO 378+37
SIGNIFICANT NATURAL COMMUNITIES	WETLAND 2012-CM-59 - STATION 380+30 TO 385+93 CLASS II
RTE SPECIES	WETLAND 2012-CM-134 - STATION 396+44 TO 397+50 CLASS II
NRC WILDLIFE HABITAT	
ARCHAEOLOGY SITES	

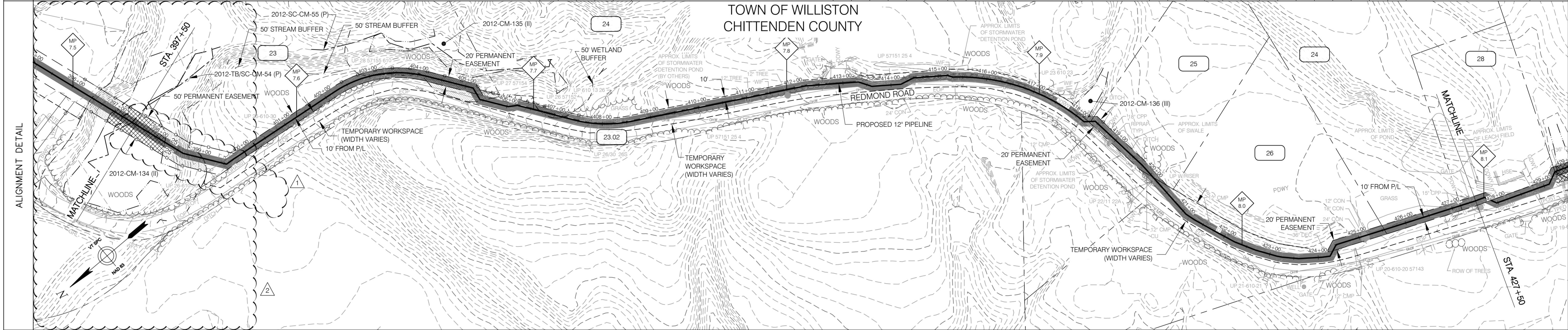
ANGP-T-C-015A	RAILROAD CROSSING DETAIL	3	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN	Vermont Gas	38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.chacompanies.com			
ANGP-T-C-015	ALIGNMENT SHEET	2	BCK	TDB	CP TEST LEAD EDIT (9/14/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016						
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016	LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-015	REV. 3

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chacompanies.com

RIGHT-OF-WAY		23 N/F CHITTENDEN SOLID WASTE DISTRICT	24 N/F CHITTENDEN SOLID WASTE DISTRICT	25 N/F CHITTENDEN SOLID WASTE DISTRICT	26 N/F CHITTENDEN SOLID WASTE DISTRICT	24 N/F CHITTENDEN SOLID WASTE DISTRICT	28 N/F CHITTENDEN SOLID WASTE DISTRICT	MATCHLINE	
SURVEY DATA		17038' LT 398+64 N 44° 43' E 4740' LT 399+55 S 54° 04' W	03755' RT 404+09 S 54° 23' W 45094' RT 405+16 N 80° 32' W 4500' LT 405+43 S 54° 28' W 2229' LT 406+03 S 31° 58' W 2235' RT 406+22 S 54° 34' W 0252' LT 407+50	0236' LT 408+51 S 28° 41' W 0716' RT 412+24 S 35° 58' W 2229' RT 413+32 S 58° 28' W 2229' LT 413+60 S 35° 58' W 2230' LT 414+20 S 13° 28' W 2230' RT 414+49 S 35° 58' W 2230' RT 415+19 S 58° 28' W 1820' LT 415+30	0228' RT 418+06 S 78° 46' W 4026' LT 418+20 S 38° 20' W 4530' RT 418+43 S 83° 20' W 0504' RT 419+75 S 88° 24' W 1411' LT 421+09 S 74° 13' W 0509' LT 421+29 S 68° 03' W 0719' LT 422+24 S 61° 44' W 0540' LT 422+69 S 56° 03' W 0523' LT 423+15 S 50° 40' W 0519' LT 423+26 S 45° 20' W 0830' LT 423+60 S 36° 50' W 0474' LT 424+08 S 32° 26' W 5433' LT 424+24 S 22° 08' E 4459' RT 424+51 S 22° 32' W 00713' LT 425+57			S 22° 38' W	



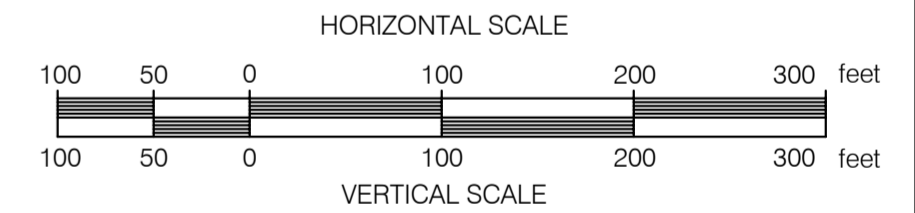
EROSION PREVENTION & SEDIMENT CONTROL

LEGEND	<p>INSTALL CONSTRUCTION DEMARCATION: STA. 397+50 TO 399+24 RT - 25' FROM NEW 12" PIPE € STA. 397+50 TO 399+80 LT - 25' FROM NEW 12" PIPE €</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 397+50 TO 399+24 RT - 25' FROM NEW 12" PIPE € STA. 397+50 TO 399+21 LT - 25' FROM NEW 12" PIPE €</p> <p>INSTALL MATTING: STA. 397+50 TO 398+70</p>	<p>INSTALL CONSTRUCTION DEMARCATION: STA. 399+80 TO 405+26 LT - 10' FROM NEW 12" PIPE € STA. 405+26 TO 418+33 LT - WIDTH VARIES FROM NEW 12" PIPE € STA. 418+33 TO 420+39 LT - 10' FROM NEW 12" PIPE € STA. 420+39 TO 424+30 LT - WIDTH VARIES FROM NEW 12" PIPE € STA. 424+30 TO 427+50 LT - 10' FROM NEW 12" PIPE €</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 402+34 TO 405+26 LT - 10' FROM NEW 12" PIPE € STA. 405+26 TO 407+85 LT - WIDTH VARIES FROM NEW 12" PIPE €</p>	<p>INSTALL REINFORCED PERIMETER CONTROL: STA. 417+43 TO 418+33 LT - WIDTH VARIES FROM NEW 12" PIPE € STA. 418+33 TO 418+72 LT - 10' FROM NEW 12" PIPE €</p> <p>INSTALL MATTING: STA. 417+84 TO 418+14</p>
---------------	---	--	--

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.

2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

CONST. TYPE	W	7	4A	4C	W	4A	4C	4A	
SOIL TYPE	AgD	Lf	AcA	AgE	AdA	HIE	AcA	AdD	
LC/LU	WETLAND	FORESTED	INDUSTRIAL	WETLAND	FORESTED	WETLAND/ACCESS	GRASS	AGRICULTURAL	RESIDENTIAL
STREAMS									
WETLANDS	WETLAND 2012-CM-134- STATION 397+50 TO 399+15 CLASS II		WETLAND 2012-CM-135- STATION 402+82 TO 407+32 CLASS II			WETLAND 2012-CM-136- STATION 417+78 TO 418+14 CLASS III			
VERNAL POOLS									
SIGNIFICANT NATURAL COMMUNITIES									
RTE SPECIES									
NRC WILDLIFE HABITAT									
ARCHAEOLOGY SITES									



ANGP-T-G-021	STATION AND VALVE DETAILS	2	GJM	BCK	IFC 2016 EDITS (05/2016)														
ANGP-T-C-016	ALIGNMENT SHEET	1	BCK	TDB	CONSTRUCTION TYPE CHANGE (6/09/15)														
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-016	REV. 2					

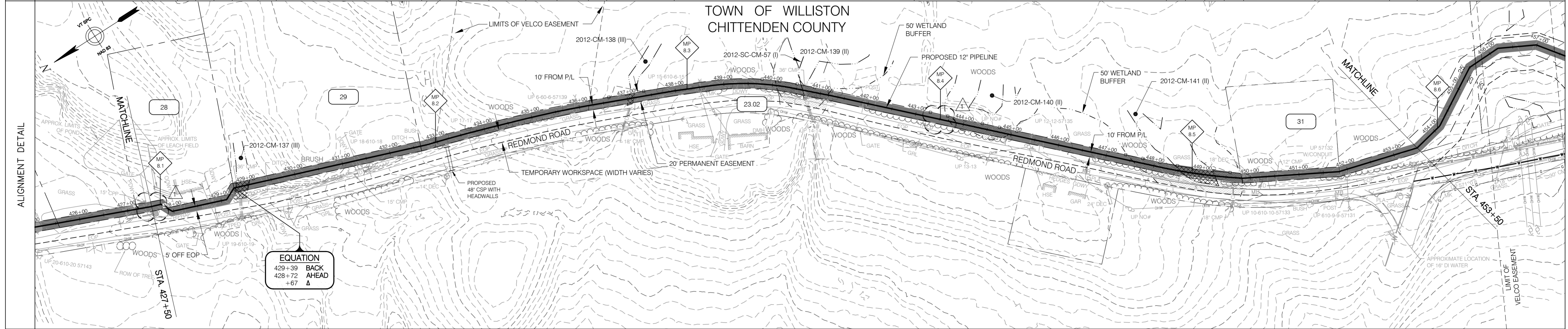
VHB Vanasse Hangen Brustlin, Inc.

VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
EPSC PLAN

LOC. CHITTENDEN COUNTY, VERMONT

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 · www.chacompanies.com

RIGHT-OF-WAY	MATCHLINE	28	29	30	33	30	31	30	MATCHLINE																		
		N/F CHITTENDEN SOLID WASTE DISTRICT	N/F CHITTENDEN SOLID WASTE DISTRICT	N/F CSWD	N/F VERMONT TRANS CO., LLC	N/F CHITTENDEN SOLID WASTE DISTRICT	N/F CHITTENDEN SOLID WASTE DISTRICT	N/F CHITTENDEN SOLID WASTE DISTRICT		N/F CHITTENDEN SOLID WASTE DISTRICT																	
SURVEY DATA		S 22° 38' W 00'00" LT 427+18	S 22° 38' W 02'35" LT 427+46	S 20° 03' W 45'00" RT 427+70	S 65° 03' W 44'38" LT 427+97	S 20° 24' W 45'21" LT 429+11	S 24° 57' E 67.2' LT 428+39 428+72 45'00" RT	S 26° 03' W	00'00" RT 432+64	03'12" LT 432+78	01'16" RT 433+43	00'38" RT 434+07	00'36" RT 434+65	01'57" RT 435+51	01'17" RT 436+17	00'03" LT 436+38	01'40" RT 437+95	01'13" RT 441+23	S 44° 58' W	01'55" LT 448+24	01'59" LT 448+64	01'59" LT 449+04	01'59" LT 449+44	06'16" LT 449+64	13'00" LT 451+82	27'18" LT 453+50	S 11° 33' E



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 427+00 TO 453+13 LT - 10' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 453+13 TO 453+50 LT - WIDTH VARIES FROM NEW 12" PIPE €			
	<ul style="list-style-type: none"> PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL 	INSTALL REINFORCED PERIMETER CONTROL: STA. 428+93 TO 429+57 LT - 10' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 436+56 TO 437+68 LT - 10' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 439+56 TO 441+69 LT - 10' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 443+12 TO 445+52 LT - 10' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 446+93 TO 450+29 LT - 10' FROM NEW 12" PIPE €
	EQUATION 429+39 BACK 428+72 AHEAD +67 Δ	INSTALL MATTING: STA. 428+68 TO 429+07	INSTALL MATTING: STA. 436+97 TO 437+18	INSTALL MATTING: STA. 448+41 TO 449+37		
		1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.				
					HORIZONTAL SCALE 0 100 200 300 feet	VERTICAL SCALE 0 100 200 300 feet

CONST. TYPE		W	4A	W	7	4A	W																
SOIL TYPE	AdD	DdC	AdD	ScB	AdA	AdB	ScB	DdB															
LC/LU	GRASS	WETLAND	FORESTED	ACCESS	FORESTED	GRASS	FORESTED	GRASS	FORESTED	WETLAND	FORESTED	ACCESS/FORESTED	WETLAND	GRASS	FORESTED	WETLAND	GRASS	FORESTED	WETLAND	ACCESS	GRASS	FORESTED	
STREAMS																							
WETLANDS																							
VERNAL POOLS																							
SIGNIFICANT NATURAL COMMUNITIES																							
RTE SPECIES																							
NRC WILDLIFE HABITAT																							
ARCHAEOLOGY SITES																							

ANGP-T-C-017	ALIGNMENT SHEET	1	BCK	TDB	CP TEST LEAD EDIT (9/14/15)																																
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	INITIALS	DATE	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-017	REV. 1																	

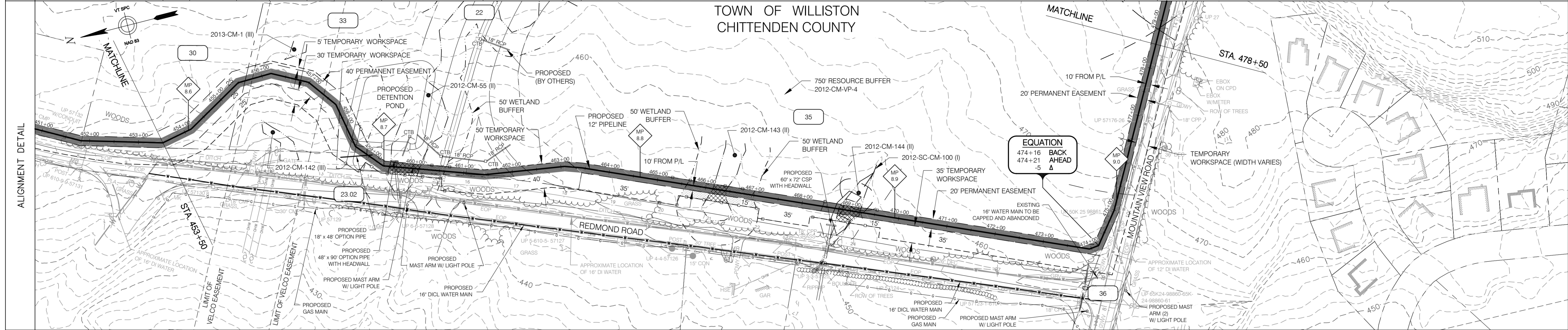
VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
EPSC PLAN

LOC. CHITTENDEN COUNTY, VERMONT

YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-017 REV. 1

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chiacompanies.com

RIGHT-OF-WAY	30 N/F CHITTENDEN SOLID WASTE DISTRICT	33 N/F VERMONT TRANSCO, LLC	22 N/F STATE OF VERMONT	35 N/F STATE OF VERMONT	36
	23.02 REDMOND ROAD	23.02 REDMOND ROAD	23.02 REDMOND ROAD	23.02 REDMOND ROAD	36 MOUNTAIN VIEW ROAD
SURVEY DATA	18'44" LT S 11° 33' E 454+14	28'56" RT S 01° 21' E 455+49	28'56" RT S 27° 35' W 456+19	29'51" RT S 53° 27' W 456+99	29'51" RT S 79° 18' W 457+71
		29'59" LT S 49° 19' W 458+65	29'59" LT S 49° 19' W 459+35	10'95" LT S 19° 19' W 461+43	
			10'95" LT S 08° 24' W 463+07	04'75" RT S 19° 00' W 463+44	
				S 23° 25' W 473+96	
				30'13" LT S 06° 48' E 474+16	
				-5.1 ft S 51° 48' E 474+21	
				09'46" LT S 61° 35' E 475+50	



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 453+50 TO 458+60 RT - 50' FROM NEW 12" PIPE € STA. 453+50 TO 458+62 LT - 25' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 458+60 TO 459+00 RT - 40' FROM NEW 12" PIPE € STA. 459+00 TO 460+57 RT - 15' FROM NEW 12" PIPE € STA. 458+62 TO 458+98 LT - WIDTH VARIES FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 460+57 TO 462+73 RT - 40' FROM NEW 12" PIPE € STA. 458+98 TO 473+96 LT - 10' FROM NEW 12" PIPE € STA. 462+73 TO 463+06 RT - WIDTH VARIES FROM NEW 12" PIPE € STA. 463+06 TO 465+47 RT - 45' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 465+47 TO 467+15 RT - 25' FROM NEW 12" PIPE € STA. 467+15 TO 468+20 RT - 45' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 468+20 TO 469+66 RT - 25' FROM NEW 12" PIPE € STA. 469+66 TO 473+96 RT - 45' FROM NEW 12" PIPE € STA. 473+96 TO 475+50 LT - WIDTH VARIES FROM NEW 12" PIPE € STA. 474+21 TO 478+50 LT - 10' FROM NEW 12" PIPE €
	PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL REINFORCED PERIMETER CONTROL: STA. 458+65 TO 459+00 RT - 40' FROM NEW 12" PIPE € STA. 459+00 TO 460+57 RT - 15' FROM NEW 12" PIPE € STA. 460+57 TO 461+02 RT - 40' FROM NEW 12" PIPE € STA. 458+20 TO 458+65 LT - 25' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 464+97 TO 465+47 RT - 45' FROM NEW 12" PIPE € STA. 458+65 TO 458+98 LT - WIDTH VARIES FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 465+47 TO 467+15 RT - 25' FROM NEW 12" PIPE € STA. 458+98 TO 461+13 LT - 10' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 467+15 TO 467+65 RT - 45' FROM NEW 12" PIPE € STA. 465+15 TO 467+51 LT - 10' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 468+20 TO 469+66 RT - 25' FROM NEW 12" PIPE € STA. 468+30 TO 469+94 LT - 10' FROM NEW 12" PIPE €
	INSTALL MATTING: STA. 459+43 TO 460+11	INSTALL MATTING: STA. 466+05 TO 466+50	INSTALL MATTING: STA. 468+76 TO 469+21	HORIZONTAL SCALE 100 50 0 100 200 300 feet VERTICAL SCALE 100 50 0 100 200 300 feet		
1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6. 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.						

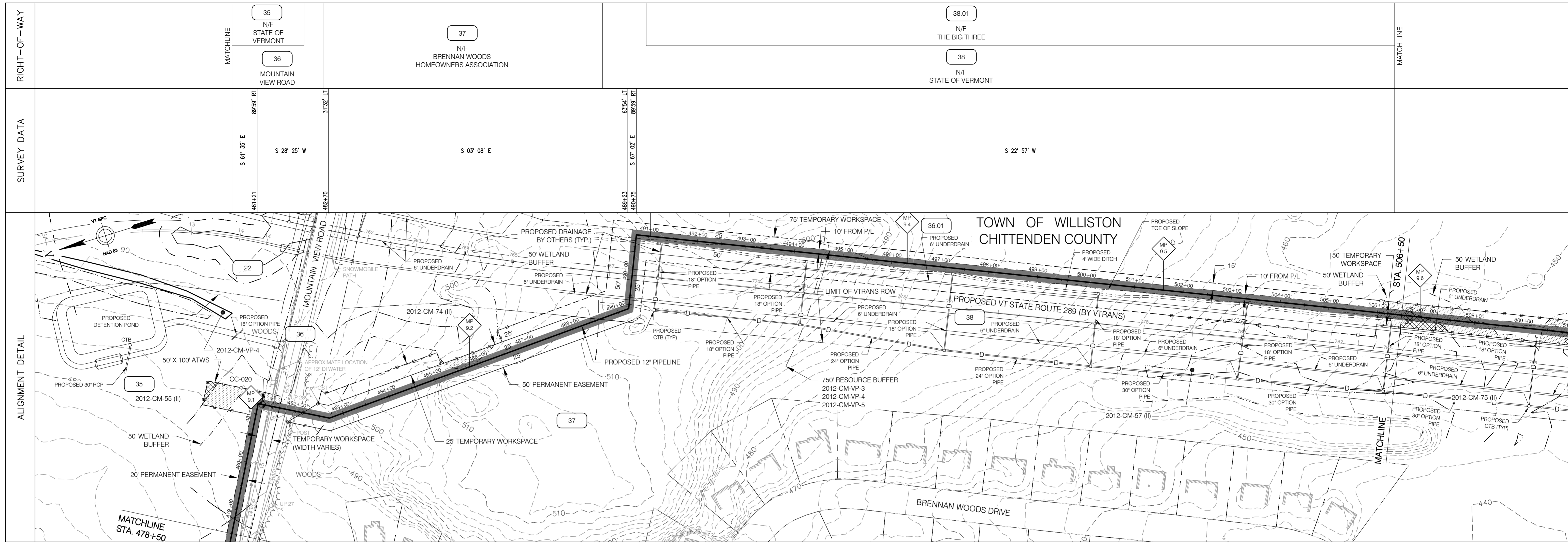
CONST. TYPE	(1E)	(1J)	(1E)	(W)	(4C)	(4A)	(W)	(W 7)	(W)	(4A)		
SOIL TYPE	DdB (PAS)	BIB (PAS)	Au (PAS)	BIB	BIB (PAS)	ScB (PAS)	ScB	ScB (PAS)	ScB	ScB (PAS)	PdB (PAS)	PaA (PAS)
LC/LU	FORESTED	FORESTED	WETLAND	WETLAND	FORESTED	FORESTED	WETLAND	FORESTED	WETLAND	FORESTED	GRASS	
STREAMS	NOT CLASSIFIED											
WETLANDS	MATCH LINE		WETLAND 2012-CM-55- STATION 458+82 TO 460+63 CLASS II			WETLAND 2012-CM-143- STATION 456+51 TO 467+09 CLASS II			WETLAND 2012-CM-144- STATION 468+76 TO 469+21 CLASS II			MATCH LINE
VERNAL POOLS	VERNAL POOL BUFFER 2012-CM-VP-4- STATION 475+35 TO 478+50											
SIGNIFICANT NATURAL COMMUNITIES												
RTE SPECIES												
NRC WILDLIFE HABITAT												
ARCHAEOLOGY SITES												

ANGP-T-C-018	ALIGNMENT SHEET	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-018	REV. 0
							ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN			
							DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016	LOC. CHITTENDEN COUNTY, VERMONT			
							DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016	Vermont Gas			
							DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016	38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.chacompanies.com			
							DESIGN MANAGER	SAB	06/28/13	JEO	05/2016				

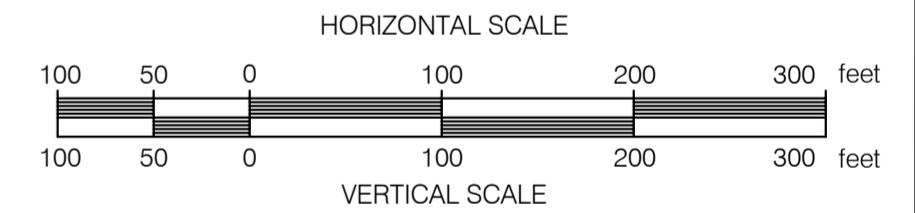
VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chacompanies.com



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	
		<p>INSTALL CONSTRUCTION DEMARCATION: STA. 478+50 TO 480+96 LT - 10' FROM NEW 12" PIPE ¶ STA. 480+96 TO 481+21 LT - WIDTH VARIES FROM NEW 12" PIPE ¶ STA. 481+21 TO 481+31 LT - 25' FROM NEW 12" PIPE ¶</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 480+96 TO 481+32 LT - WIDTH VARIES FROM NEW 12" PIPE ¶</p> <p>INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 482+03</p> <p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6. 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>



CONST. TYPE	4A	9	1A	2A	1A	1G	1B	2C	
SOIL TYPE	ScA (PAS)	PeA (PAS)	LyD	PeB (PAS)	Br	LyD	PeB (PAS)	MyB (PAS)	ScA (PAS)
LC/LU	GRASS	PAVEMENT	NOT CLASSIFIED	FORESTED	NOT CLASSIFIED	WETLAND			
STREAMS									
WETLANDS			WETLAND 2012-CM-74 - STATION 485+23 TO 486+55 CLASS II			WETLAND 2012-CM-75 - STATION 502+85 TO 503+52 CLASS II	WETLAND 2012-CM-75 - STATION 506+01 TO 506+50 CLASS II		
VERNAL POOLS			VERNAL POOL BUFFER 2012-CM-VP-3, 2012-CM-VP-4, & 2012-CM-VP-5 - STATION 478+50 TO 492+83						
SIGNIFICANT NATURAL COMMUNITIES									
RTE SPECIES									
NRC WILDLIFE HABITAT									
ARCHAEOLOGY SITES									

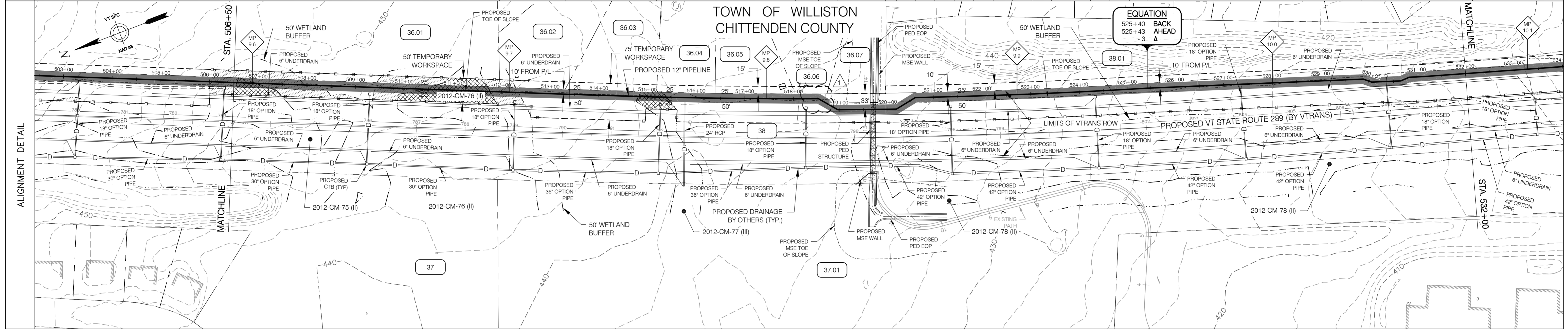
ANGP-T-C-019	ALIGNMENT SHEET	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN							
DWG. NO.							INITIALS	DATE	INITIALS	DATE			LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'

VHB Vanasse Hangen Brustlin, Inc.

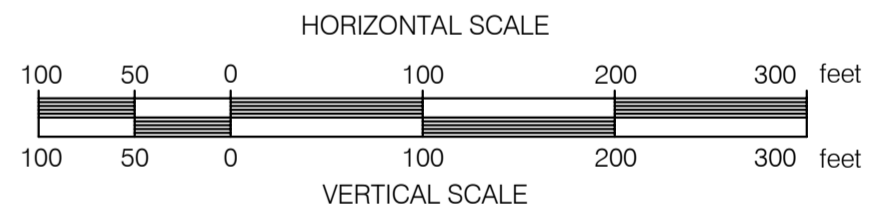
CIA

38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 • www.chacompanies.com

RIGHT-OF-WAY			36.01 N/F THE BIG THREE	36.02 N/F JEFFREY S. & AMANDA E. BOLIBA	36.03 N/F NGUYEN V. NGUYEN & LE T. HONG	36.04 N/F TONG & WINNY NGUYEN	36.05 N/F JAMIE K. & ALYSSA K. CHASE	36.06 N/F DAVID & MANDY BOISJOLI	36.07 N/F COMMON LAND		
			38 N/F STATE OF VERMONT, AGENCY OF TRANSPORTATION								
	SURVEY DATA		S 22° 57' W	S 22° 57' W	S 22° 44' W	S 22° 02' W	S 21° 21' W	S 20° 20' W	S 20° 48' W S 30° 36' W	S 20° 20' W S 00° 00' W S 10° 20' E S 19° 40' W S 19° 28' W S 19° 17' W S 19° 05' W S 18° 54' W S 18° 42' W S 18° 31' W S 18° 19' W S 18° 08' W S 17° 56' W S 17° 45' W S 17° 34' W S 17° 34' W S 17° 34' W S 18° 33' W	S 40° 31' W S 30° 05' W



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 506+50 TO 512+62 RT - 25' FROM NEW 12" PIPE ☿ STA. 506+50 TO 518+51 LT - 25' FROM NEW 12" PIPE ☿	INSTALL CONSTRUCTION DEMARCATION: STA. 512+62 TO 514+97 RT - 50' FROM NEW 12" PIPE ☿ STA. 514+97 TO 515+62 RT - 25' FROM NEW 12" PIPE ☿ STA. 515+62 TO 518+51 RT - 50' FROM NEW 12" PIPE ☿	INSTALL CONSTRUCTION DEMARCATION: STA. 518+51 TO 520+63 RT - WIDTH VARIES FROM NEW 12" PIPE ☿ STA. 520+63 TO 529+87 RT - 50' FROM NEW 12" PIPE ☿ STA. 518+51 TO 520+63 LT - WIDTH VARIES FROM NEW 12" PIPE ☿ STA. 520+63 TO 529+87 LT - 25' FROM NEW 12" PIPE ☿	INSTALL CONSTRUCTION DEMARCATION: STA. 529+87 TO 530+84 RT - WIDTH VARIES FROM NEW 12" PIPE ☿ STA. 530+84 TO 532+00 RT - 50' FROM NEW 12" PIPE ☿ STA. 529+87 TO 530+84 LT - WIDTH VARIES FROM NEW 12" PIPE ☿ STA. 530+84 TO 532+00 LT - 25' FROM NEW 12" PIPE ☿
		INSTALL REINFORCED PERIMETER CONTROL: STA. 506+50 TO 512+62 RT - 25' FROM NEW 12" PIPE ☿ STA. 512+62 TO 513+14 RT - 50' FROM NEW 12" PIPE ☿ STA. 506+50 TO 512+78 LT - 25' FROM NEW 12" PIPE ☿	INSTALL REINFORCED PERIMETER CONTROL: STA. 514+47 TO 514+98 RT - 50' FROM NEW 12" PIPE ☿ STA. 514+98 TO 515+62 RT - 25' FROM NEW 12" PIPE ☿ STA. 515+62 TO 516+11 RT - 50' FROM NEW 12" PIPE ☿	INSTALL REINFORCED PERIMETER CONTROL: STA. 518+97 TO 520+63 RT - WIDTH VARIES FROM NEW 12" PIPE ☿ STA. 520+63 TO 529+87 RT - 50' FROM NEW 12" PIPE ☿	INSTALL REINFORCED PERIMETER CONTROL: STA. 529+87 TO 530+84 RT - WIDTH VARIES FROM NEW 12" PIPE ☿ STA. 530+84 TO 532+00 RT - 50' FROM NEW 12" PIPE ☿



CONST. TYPE		(W)	(2C)	(W)	(1B)	(2C)	(W)	(1B)
SOIL TYPE			SoA (PAS)			SoB (PAS)		MyB (PAS)
LC/LU		WETLAND			GRASS	WETLAND		GRASS
STREAMS		NOT CLASSIFIED						
WETLANDS	MATCH LINE	WETLAND 2012-CM-75- STATION 506+50 TO 509+09 CLASS II	WETLAND 2012-CM-76- STATION 509+38 TO 512+50 CLASS II	WETLAND 2012-CM-77- STATION 514+77 TO 515+61 CLASS III				
VERNAL POOLS								
SIGNIFICANT NATURAL COMMUNITIES								
RTE SPECIES								
NRC WILDLIFE HABITAT								
ARCHAEOLOGY SITES								

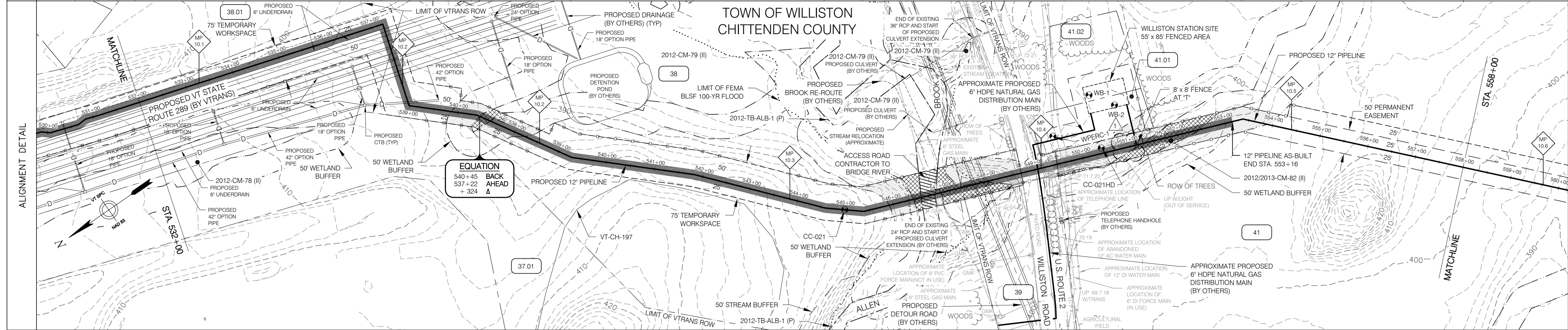
ANGP-T-C-020 DWG. NO.	ALIGNMENT SHEET	REFERENCE DWG.	1	BCK	TDB	CP TEST LEAD EDIT (9/14/15)	DESCRIPTION	BID		CONSTRUCTION		VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN	LOC. CHITTENDEN COUNTY, VERMONT	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-020	REV. 1
								INITIALS	DATE	INITIALS	DATE							
								JLS	06/28/13	JLS	05/2016							
								GIL	06/28/13	GJM	05/2016							
								BZD	06/28/13	BCK	05/2016							
								MDF	06/28/13	GEW	05/2016							
								SAB	06/28/13	JEO	05/2016							

VHB Vanasse Hangen Brustlin, Inc.

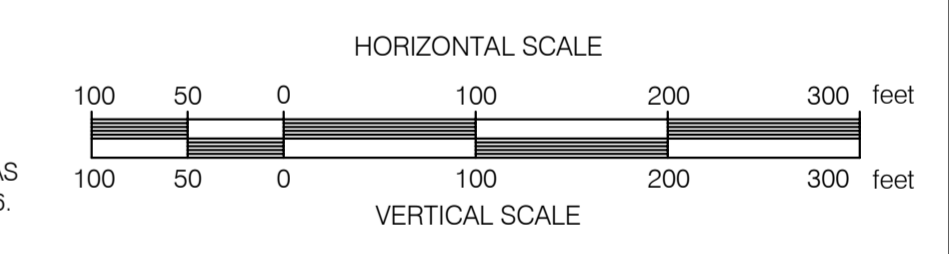
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chiacompanies.com

Vermont Gas

RIGHT-OF-WAY	MATCHLINE	38.01 N/F COMMON LAND	37.01 N/F TOWN OF WILLISTON	38 N/F STATE OF VERMONT	39 WILLISTON ROAD ROUTE 2	41.01 N/F ARMS, STEVEN & LISA	41 N/F TOWN OF WILLISTON	MATCHLINE
SURVEY DATA	S 16° 31' W S 03° 29' E S 16° 31' W	22'00" LT 22'00" RT 01'40" LT	89'51" RT 64'04" LT 64'01" LT	537+24 538+99 538+99 537+22 324 TL	16'05" LT 6'72" RT 09'17" LT 18'42" LT	544+60 545+38 545+38	00'00" RT 26'00" RT	



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 532+00 TO 538+99 RT - 50' FROM NEW 12" PIPE STA. 532+00 TO 538+55 LT - 25' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 538+99 TO 548+69 RT - 25' FROM NEW 12" PIPE STA. 538+55 TO 540+01 LT - 50' FROM NEW 12" PIPE STA. 540+01 TO 538+65 LT - 25' FROM NEW 12" PIPE STA. 538+65 TO 548+72 LT - 50' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 536+06 TO 538+39 RT - 25' FROM NEW 12" PIPE STA. 539+59 TO 540+01 LT - 50' FROM NEW 12" PIPE STA. 540+01 TO 538+65 LT - 25' FROM NEW 12" PIPE STA. 538+65 TO 539+17 LT - 50' FROM NEW 12" PIPE	INSTALL MATTING: STA. 540+30 TO 537+61	INSTALL REINFORCED PERIMETER CONTROL: STA. 545+45 TO 546+57 RT - 25' FROM NEW 12" PIPE STA. 543+79 TO 546+66 LT - 50' FROM NEW 12" PIPE	INSTALL MATTING: STA. 546+24 TO 546+66 STA. 546+92 TO 548+46	INSTALL STABILIZED CONSTRUCTION ENTRANCE STA. 548+70 & STA. 549+46	INSTALL REINFORCED PERIMETER CONTROL: STA. 549+43 TO 558+00 RT - 25' FROM NEW 12" PIPE STA. 549+17 TO 549+49 LT - 25' FROM NEW 12" PIPE STA. 549+17 TO 550+09 LT - 75' FROM NEW 12" PIPE STA. 550+09 TO 551+39 LT - 165' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 549+43 TO 554+36 RT - 25' FROM NEW 12" PIPE STA. 549+17 TO 549+49 LT - WIDTH VARIES FROM NEW 12" PIPE STA. 551+39 TO 551+39 LT - WIDTH VARIES FROM NEW 12" PIPE STA. 551+39 TO 554+20 LT - 25' FROM NEW 12" PIPE	INSTALL CONSTRUCTION DEMARCATION: STA. 551+39 TO 554+20 LT - 25' FROM NEW 12" PIPE STA. 554+20 TO 558+00 LT - 50' FROM NEW 12" PIPE	INSTALL REINFORCED PERIMETER CONTROL: STA. 554+20 TO 554+86 LT - 50' FROM NEW 12" PIPE
		PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL										



CONST. TYPE	1B	1G	W	2C	1G	W	7	W	9	W	2A	W	1A
SOIL TYPE	MyB (PAS)	SaA (PAS)	MuD	MyB (PAS)	MyC (PAS)	MyB (PAS)							MyB (PAS)
LC/LU	GRASS												
	NOT CLASSIFIED												
STREAMS	NOT CLASSIFIED												
	WATER												
	TRAVEL												
	PASTURE												
	NOT CLASSIFIED												
WETLANDS	WETLAND 2012-CM-79 - STATION 539+80 TO 538+49 CLASS II												
	WETLAND 2012-CM-79 - STATION 545+89 TO 548+91 CLASS II												
	WETLAND 2012/2013-CM-82 - STATION 548+63 TO 554+46 CLASS II												
VERNAL POOLS													
SIGNIFICANT NATURAL COMMUNITIES													
RTE SPECIES													
NRC WILDLIFE HABITAT													
ARCHAEOLOGY SITES													

ANGP-T-G-021	STATION AND VALVE DETAILS																				
ANGP-T-C-021	ALIGNMENT SHEET	1	BCK	TDB	CP TEST LEAD EDIT (9/14/15)																
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION																

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chacompanies.com

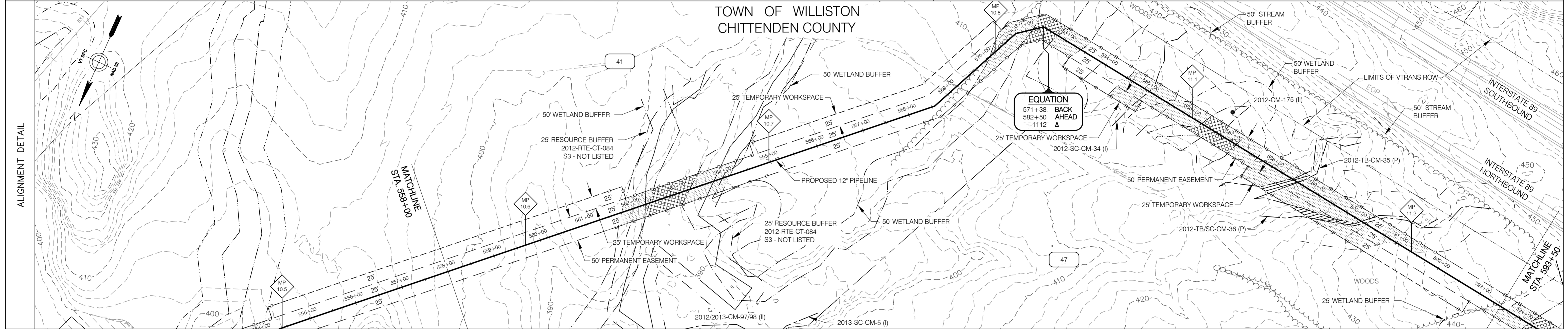
VERMONT GAS
PROPOSED 12" PIPELINE
ADDISON NATURAL GAS PROJECT
EPSC PLAN

LOC. CHITTENDEN COUNTY, VERMONT

YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-021 REV. 1

	BID	CONSTRUCTION
ENVIRONMENTAL	JLS 06/28/13	JLS 05/2016
DRAFTING DESIGNER	GIL 06/28/13	GJM 05/2016
DRAFTING SUPERVISOR	BZD 06/28/13	BCK 05/2016
DESIGN ENGINEER	MDF 06/28/13	GEW 05/2016
DESIGN MANAGER	SAB 06/28/13	JEO 05/2016

RIGHT-OF-WAY	MATCHLINE		41 N/F TOWN OF WILLISTON			47 N/F ALLEN BROOK DEVELOPMENT INC.			MATCHLINE
	SURVEY DATA								
<p style="text-align: center;">S 46° 58' W S 23° 56' W S 92° 12' W N 82° 48' W</p> <p style="text-align: center;">2370' LT 2816' RT -1112.20 ft.</p> <p style="text-align: center;">584+56 570+79 Bk: 571+38 Aid: 582+50 Aid: 4500' RT</p>									



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL		INSTALL CONSTRUCTION DEMARCATION: STA. 558+00 TO 583+27 RT - 25' FROM NEW 12" PIPE € STA. 558+00 TO 561+94 LT - 50' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 561+94 TO 564+71 LT - 25' FROM NEW 12" PIPE € STA. 564+71 TO 570+62 LT - 50' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 583+27 TO 585+02 RT - 50' FROM NEW 12" PIPE € STA. 570+62 TO 593+50 LT - 25' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 585+02 TO 587+57 RT - 25' FROM NEW 12" PIPE € STA. 587+57 TO 593+50 RT - 50' FROM NEW 12" PIPE €		INSTALL REINFORCED PERIMETER CONTROL: STA. 585+02 TO 587+57 RT - 25' FROM NEW 12" PIPE € STA. 587+57 TO 588+96 RT - 50' FROM NEW 12" PIPE € STA. 588+23 TO 588+64 RT - 50' FROM NEW 12" PIPE € STA. 589+20 TO 590+93 RT - 50' FROM NEW 12" PIPE € STA. 592+39 TO 592+89 RT - 50' FROM NEW 12" PIPE € STA. 592+89 TO 593+50 RT - 25' FROM NEW 12" PIPE € STA. 593+24 TO 593+50 LT - 25' FROM NEW 12" PIPE €
	INSTALL REINFORCED PERIMETER CONTROL: STA. 561+11 TO 565+03 RT - 25' FROM NEW 12" PIPE € STA. 561+50 TO 561+94 LT - 50' FROM NEW 12" PIPE € STA. 561+94 TO 564+71 LT - 25' FROM NEW 12" PIPE €		INSTALL REINFORCED PERIMETER CONTROL: STA. 564+71 TO 565+21 LT - 50' FROM NEW 12" PIPE €		INSTALL REINFORCED PERIMETER CONTROL: STA. 568+11 TO 583+27 RT - 25' FROM NEW 12" PIPE € STA. 570+19 TO 570+62 LT - 50' FROM NEW 12" PIPE €		INSTALL REINFORCED PERIMETER CONTROL: STA. 583+27 TO 585+02 RT - 50' FROM NEW 12" PIPE € STA. 570+62 TO 588+66 LT - 25' FROM NEW 12" PIPE € STA. 588+80 TO 590+36 LT - 25' FROM NEW 12" PIPE € STA. 590+46 TO 592+25 LT - 25' FROM NEW 12" PIPE €				
		INSTALL MATTING: STA. 562+20 TO 563+49		INSTALL MATTING: STA. 570+67 TO 582+96 STA. 585+97 TO 587+16						HORIZONTAL SCALE 	VERTICAL SCALE
1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6. 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.											

CONST. TYPE	1A		W		2A		1A		2A W		1E		2A W		1E		2A	
SOIL TYPE	MyB (PAS)		MyC (PAS)		MyB (PAS)		ScA (PAS)		EWA (PAS)		CbD		ScB					
LC/LU	PASTURE								NOT CLASSIFIED								FORESTED	
STREAMS	STREAM 2012-SC-CM-34 (I) STATION 584+87 TO 585+08 STREAM 2012-TB-CM-35 (P) STATION 587+96 TO 588+80 STREAM 2012-TB-CM-36 (P) STATION 588+64 TO 590+46																	
WETLANDS	WETLAND 2012/2013-CM-97/98 - STATION 561+61 TO 564+49 CLASS II WETLAND 2012/2013-CM-97/98 - STATION 569+33 TO 583+49 CLASS II WETLAND 2012-CM-175 - STATION 585+22 TO 587+67 CLASS II WETLAND 2012-CM-99 - STATION 592+89 TO 593+50 CLASS II																	
VERNAL POOLS																		
SIGNIFICANT NATURAL COMMUNITIES																		
RTE SPECIES	2012-RTE-CT-084																	
NRC WILDLIFE HABITAT																		
ARCHAEOLOGY SITES																		

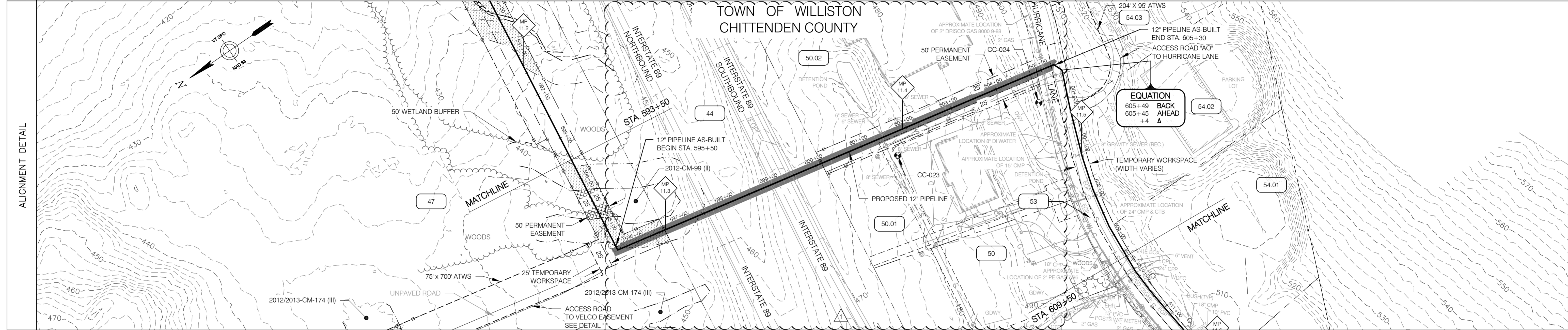
ANGP-T-G-021 STATION AND VALVE DETAILS		ANGP-T-C-022 ALIGNMENT SHEET		DWG. NO.		REFERENCE DWG.		REV		DSN		CK		DESCRIPTION		INITIALS		DATE		ENVIRONMENTAL		CONSTRUCTION		VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN		LOC. CHITTENDEN COUNTY, VERMONT		YEAR: 2016		W.O.		SCALE: 1" = 100'		DWG. ANGP-EPSC-022		REV. 0	
																				JLS		JLS		VERMONT GAS		CHITTENDEN COUNTY, VERMONT		2016				1" = 100'		ANGP-EPSC-022		0	
																				GIL		GJM		ADDISON NATURAL GAS PROJECT		CHITTENDEN COUNTY, VERMONT		2016									
																				BZD		BCK		EPSC PLAN		CHITTENDEN COUNTY, VERMONT		2016									
																				MDF		GEW		PROJECT		CHITTENDEN COUNTY, VERMONT		2016									
																				SAB		JEO		PLAN		CHITTENDEN COUNTY, VERMONT		2016									

VHB Vanasse Hangen Brustlin, Inc.

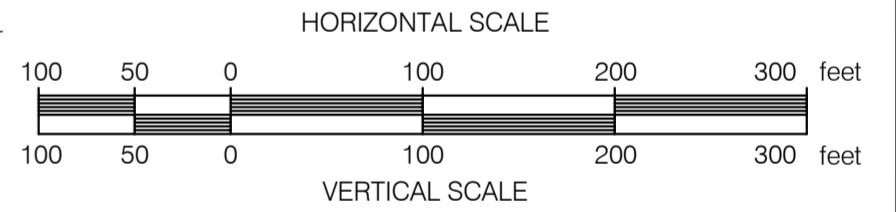
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chiacompanies.com

Vermont Gas

RIGHT-OF-WAY			47 N/F ALLEN BROOK DEVELOPMENT INC.	44 N/F STATE OF VERMONT	50.02 N/F 291 HURRICANE LANE, LLC	54.03 N/F DUNN, WILLIAM	54.02 N/F HILLSIDE EAST CO.	54.01 N/F DUNN, WILLIAM	MATCH LINE				
SURVEY DATA		85'48" LT	N 82° 46' W		S 11° 24' W	59'01" RT	4' 11" RT N 67° 35' W	41' 11" RT N 67° 35' W	02'19" LT	03'52" LT	05'40" LT	06'79" LT	MATCH LINE



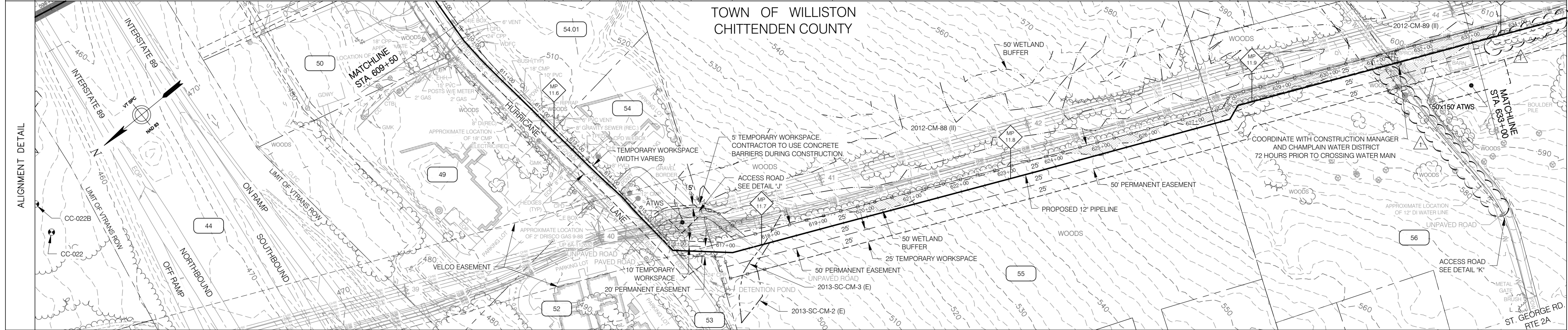
EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 593+50 TO 595+19 RT - 25' FROM NEW 12" PIPE κ STA. 593+50 TO 596+61 LT - 25' FROM NEW 12" PIPE κ	INSTALL CONSTRUCTION DEMARCATION: STA. 595+19 TO 595+58 RT - WIDTH VARIES FROM NEW 12" PIPE κ STA. 595+58 TO 596+64 RT - 25' FROM NEW 12" PIPE κ	INSTALL CONSTRUCTION DEMARCATION: STA. 600+13 TO 604+91 RT - 25' FROM NEW 12" PIPE κ STA. 600+08 TO 604+96 LT - 25' FROM NEW 12" PIPE κ	INSTALL CONSTRUCTION DEMARCATION: STA. 605+42 TO 609+50 LT - WIDTH VARIES FROM NEW 12" PIPE κ	
	PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL REINFORCED PERIMETER CONTROL: STA. 593+50 TO 595+19 RT - 25' FROM NEW 12" PIPE κ STA. 593+50 TO 596+61 LT - 25' FROM NEW 12" PIPE κ	INSTALL REINFORCED PERIMETER CONTROL: STA. 596+14 TO 596+64 RT - 25' FROM NEW 12" PIPE κ	INSTALL REINFORCED PERIMETER CONTROL: STA. 600+13 TO 600+63 RT - 25' FROM NEW 12" PIPE κ STA. 600+10 TO 600+60 LT - 25' FROM NEW 12" PIPE κ	INSTALL REINFORCED PERIMETER CONTROL: STA. 606+13 TO 606+30 RT - 25' FROM NEW 12" PIPE κ STA. 606+10 TO 606+30 LT - 25' FROM NEW 12" PIPE κ	INSTALL REINFORCED PERIMETER CONTROL: STA. 606+26 TO 606+42 RT - 25' FROM NEW 12" PIPE κ STA. 606+26 TO 606+42 LT - 25' FROM NEW 12" PIPE κ
INSTALL MATTING: STA. 593+78 TO 594+94		INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 595+58 & 596+63		INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 600+12	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 604+91	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 606+26
<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE 'CONSTRUCTION EPSC NOTES' - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE 'CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS' (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>						



CONST. TYPE		(2A)	(1E)	(W)	(2A)	(8)	(4C)
SOIL TYPE		ScB (PAS)		CaC (PAS)		CbD	
LC/LU		FORESTED		PAVED		GRASS/FORESTED	PAVED
		NOT CLASSIFIED		TRAVEL		INDUSTRIAL	TRAVEL
STREAMS							
WETLANDS		WETLAND 2012-CM-99 - STATION 593+50 TO 596+64 CLASS II					
VERNAL POOLS							
SIGNIFICANT NATURAL COMMUNITIES							
RTE SPECIES							
NRC WILDLIFE HABITAT							
ARCHAEOLOGY SITES							

								BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN						
								ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	LOC. CHITTENDON COUNTY, VERMONT	Vermont Gas	 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 · www.chiacompanies.com	
								DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016				
								DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016				
								DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016				
								DESIGN MANAGER	SAB	06/28/13	JEO	05/2016				
ANGP-T-G-07-010	ACCESS ROAD DETAILS							INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-ESPC-023B	REV. 1
ANGP-T-C-023B	ALIGNMENT SHEET	1	GJM	BCK			IFC 2016 EDITS (05/2016)									
DWG. NO.	REFERENCE DWG.	REV	DSN	CK			DESCRIPTION	INITIALS	DATE	INITIALS	DATE					

RIGHT-OF-WAY	MATCHLINE	54.01 DUNN, WILLIAM	54 N/F HURRICANE HOLDINGS, LLC	55 N/F SIDELINE PROPERTIES LLC; WILLIAM DUNN	56 N/F BOSS, BRADLEY	MATCHLINE														
	MATCHLINE	53 HURRICANE LANE																		
SURVEY DATA	609+86	610+37	610+85	611+36	611+93	612+34	612+84	613+33	613+81	614+41	614+79	615+36	615+92	617+15	619+27	623+66	627+70	628+02	644+01	644+41
	N 85° 56' W	S 87° 09' W	S 84° 16' W	S 83° 20' W	S 83° 40' W	S 84° 30' W	S 83° 43' W	S 83° 52' W	S 83° 11' W	S 81° 44' W	S 87° 33' W	S 85° 06' W	S 85° 02' W	S 41° 21' W	S 24° 18' W	S 24° 24' W	S 24° 08' W	S 24° 17' W	S 20° 31' E	S 20° 31' E



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:

- STA. 616+00 TO 616+52 RT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 609+50 TO 615+69 LT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 615+69 TO 617+15 LT - 20' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:

- STA. 616+40 TO 617+49 LT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 616+45 TO 617+25 LT - WIDTH VARIES FROM NEW 12" PIPE

INSTALL STABILIZED CONSTRUCTION ENTRANCE:

- STA. 615+27 & 617+35

INSTALL MATTING:

- STA. 616+53 TO 616+79

INSTALL CONSTRUCTION DEMARCATION:

- STA. 616+52 TO 616+98 RT - 10' FROM NEW 12" PIPE
- STA. 616+98 TO 633+00 RT - 50' FROM NEW 12" PIPE
- STA. 617+15 TO 633+00 LT - 25' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:

- STA. 616+98 TO 617+11 RT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 617+11 TO 618+04 RT - 50' FROM NEW 12" PIPE
- STA. 617+49 TO 633+00 LT - 25' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:

- STA. 631+05 TO 631+59 RT - WIDTH VARIES FROM NEW 12" PIPE
- STA. 631+78 TO 632+04 RT - WIDTH VARIES FROM NEW 12" PIPE

INSTALL MATTING:

- STA. 631+22 TO 631+53

HORIZONTAL SCALE

100 50 0 100 200 300 feet

VERTICAL SCALE

100 50 0 100 200 300 feet

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE 'CONSTRUCTION EPSC NOTES' - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.

2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE 'CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS' (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

CONST. TYPE	3C	3A	1E							
SOIL TYPE	CbD									
LC/LU	ROAD EDGE	TRAVEL	RESIDENTIAL	TRAVEL	INDUSTRIAL	FORESTED/POWERLINES	UNCLASSIFIED	GRASS	UNPAVED	GRASS
STREAMS	STREAM 2013-SC-CM-3 (E) STATION 617+22 TO 618+06 STREAM 2013-SC-CM-2 (E) STATION 617+53 TO 617+92									
WETLANDS	WETLAND 2012-CM-88 - STATION 619+00 TO 622+99 CLASS II WETLAND 2012-CM-88 - STATION 623+67 TO 626+49 CLASS II WETLAND 2012-CM-88 - STATION 626+59 TO 630+34 CLASS II WETLAND 2012-CM-89 - STATION 630+67 TO 633+00 CLASS II									
VERNAL POOLS										
SIGNIFICANT NATURAL COMMUNITIES										
RTE SPECIES										
NRC WILDLIFE HABITAT										
ARCHAEOLOGY SITES										

ANGP-T-G-07-010		ACCESS ROAD DETAILS		1		GJM		BCK		IFC 2016 EDITS (05/2016)		ENVIRONMENTAL		JLS		06/28/13		CONSTRUCTION		JLS		05/2016		VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN		LOC. CHITTENDEN COUNTY, VERMONT		YEAR: 2016		W.O.		SCALE: 1" = 100'		DWG. ANGP-EPSC-024		REV. 1	
ANGP-T-C-024		ALIGNMENT SHEET		1		GJM		BCK		IFC 2016 EDITS (05/2016)		DRAFTING DESIGNER		GIL		06/28/13		CONSTRUCTION		GJM		05/2016															
DWG. NO.		REFERENCE DWG.		REV		DSN		CK		DESCRIPTION		INITIALS		DATE		INITIALS		DATE																			

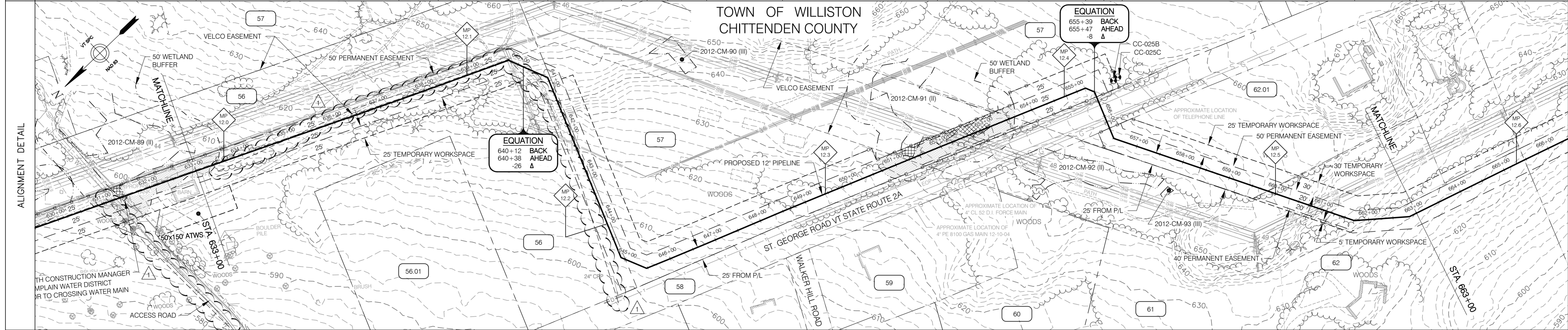
VHB Vanasse Hangen Brustlin, Inc.

CIA

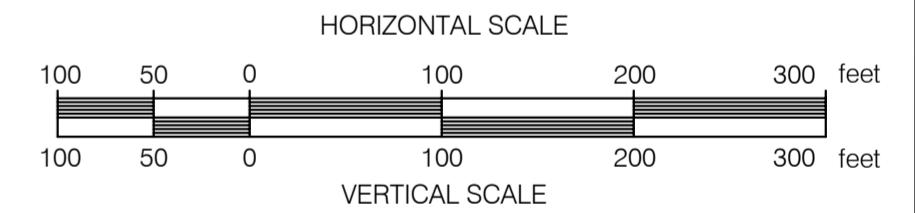
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chacompanies.com

Vermont Gas

RIGHT-OF-WAY				56 N/F BOSS, BRADLEY		57 N/F OAK HILL ESTATES ASSOCIATION		58 ST. GEORGE ROAD VT STATE ROUTE 2A		60.01 N/F PALMER, DAVID		61 N/F BLACKBERRY RIDGE HOMEOWNERS ASSOCIATION		62 N/F LUNNA, STEPHEN R. & JENNIFER J.	
SURVEY DATA				S 24' 29" W	00'29" RT 00'11" RT	43'39" RT S 67' 28" E -26' FL Ahd: 640+38 S 67' 28" E 44'09" RT	N 68' 23" W	S 20' 49" W S 21' 31" W	S 21' 46" W	44'59" RT S 66' 46" W -8.1' FL Ahd: 655+39 N 68' 45" W 48'36" LT		S 62' 38" W	22'59" LT S 39' 38" W	22'07" LT S 17' 31" W	



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 633+00 TO 640+48 RT - 50' FROM NEW 12" PIPE & STA. 640+48 TO 641+04 RT - WIDTH VARIES FROM NEW 12" PIPE & STA. 633+00 TO 641+06 LT - 25' FROM NEW 12" PIPE &	INSTALL CONSTRUCTION DEMARCATION: STA. 641+04 TO 644+91 RT - 25' FROM NEW 12" PIPE & STA. 644+91 TO 645+45 RT - WIDTH VARIES FROM NEW 12" PIPE & STA. 645+45 TO 655+19 RT - 25' FROM NEW 12" PIPE & STA. 641+06 TO 650+70 LT - 50' FROM NEW 12" PIPE & STA. 650+70 TO 653+70 LT - 25' FROM NEW 12" PIPE & STA. 653+70 TO 655+19 LT - 50' FROM NEW 12" PIPE &	INSTALL CONSTRUCTION DEMARCATION: STA. 655+19 TO 655+58 RT - WIDTH VARIES FROM NEW 12" PIPE & STA. 655+19 TO 655+47 LT - WIDTH VARIES FROM NEW 12" PIPE & STA. 655+47 TO 655+58 LT - 50' FROM NEW 12" PIPE &	INSTALL CONSTRUCTION DEMARCATION: STA. 656+24 TO 663+00 RT - 25' FROM NEW 12" PIPE & STA. 656+24 TO 663+00 LT - 50' FROM NEW 12" PIPE &		
	<p>PERMANENT EASEMENT</p> <p>TEMPORARY WORKSPACE</p> <p>CENTERLINE OF STREAM</p> <p>TEMPORARY STREAM CROSSING</p> <p>WETLAND</p> <p>50' WETLAND BUFFER</p> <p>TEMPORARY WETLAND MATTING</p> <p>WETLAND BUFFER WITHIN PROJECT AREA</p> <p>REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL</p>	INSTALL REINFORCED PERIMETER CONTROL: STA. 633+00 TO 633+45 LT - 25' FROM NEW 12" PIPE &	INSTALL REINFORCED PERIMETER CONTROL: STA. 650+38 TO 655+33 RT - 25' FROM NEW 12" PIPE & STA. 650+28 TO 650+70 LT - 50' FROM NEW 12" PIPE & STA. 650+70 TO 653+70 LT - 25' FROM NEW 12" PIPE & STA. 653+70 TO 654+15 LT - 50' FROM NEW 12" PIPE &	INSTALL REINFORCED PERIMETER CONTROL: STA. 656+24 TO 656+55 RT - 25' FROM NEW 12" PIPE & STA. 655+33 TO 655+58 LT - 50' FROM NEW 12" PIPE & STA. 656+24 TO 657+20 LT - 50' FROM NEW 12" PIPE &	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 645+24	INSTALL MATTING: STA. 651+16 TO 653+20	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 655+58
<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>							



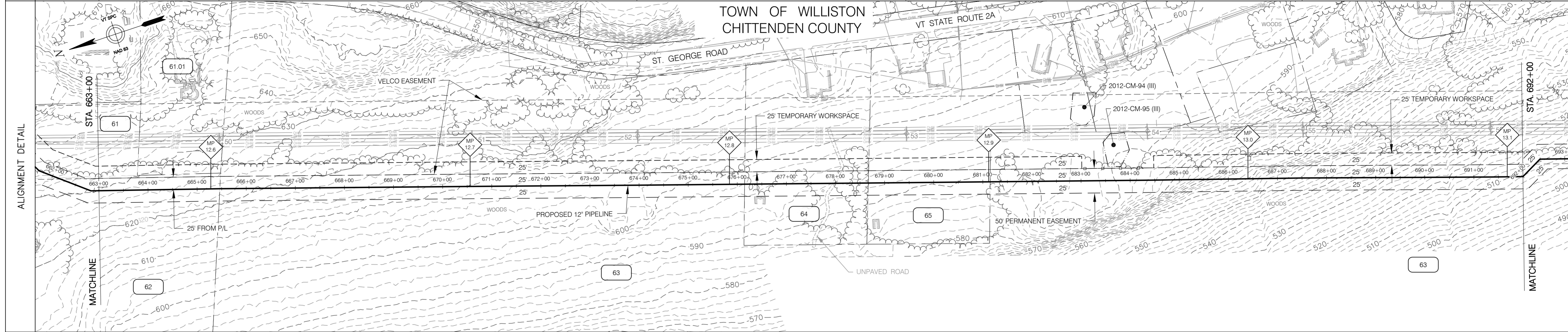
CONST. TYPE		1E	2A	1A	2A	W	1H	W	1A	9	1A	1H	1A	
SOIL TYPE		PcC	LyD	PcC	GrB (PAS)		PcB (PAS)		CaC (PAS)	LmB (PAS)		LyD		
LC/LU		GRASS	FORESTED/POWERLINE	UNCLASSIFIED			FORESTED	UNCLASSIFIED		PAVED		FORESTED/POWERLINE		
STREAMS										TRAVEL				
WETLANDS										WETLAND 2012-CM-91 - STATION 650+66 TO 653+70 CLASS II				
VERNAL POOLS														
SIGNIFICANT NATURAL COMMUNITIES														
RTE SPECIES														
NRC WILDLIFE HABITAT														
ARCHAEOLOGY SITES														

ANGP-T-C-025	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)										
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-025	REV. 1	

ENVIRONMENTAL		JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN	LOC. CHITTENDEN COUNTY, VERMONT	Vermont Gas	 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.ciacompanies.com
DRAFTING DESIGNER		GIL	06/28/13	GJM	05/2016				
DRAFTING SUPERVISOR		BZD	06/28/13	BCK	05/2016				
DESIGN ENGINEER		MDF	06/28/13	GEW	05/2016				
DESIGN MANAGER		SAB	06/28/13	JEO	05/2016				

VHB Vanasse Hangen Brustlin, Inc.

RIGHT-OF-WAY	61 N/F BLACKBERRY RIDGE HOMEOWNERS ASSOCIATION	61.01 N/F POODIACK, ROBERT & JUNE	63 N/F MARCOTTE, NORMAN & RITA A.	64 N/F BRODERICK, CLAUDE R.	65 N/F ROBEAR, LEONARD P. & MARY D.	63 N/F MARCOTTE, NORMAN & RITA A.	
	62 N/F LUNNA, STEPHEN R. & JENNIFER J.						
SURVEY DATA	S 17° 31' W	S 17° 56' W	S 18° 02' W	S 17° 54' W	S 17° 52' W	S 17° 39' W	S 18° 08' W
	00735' RT 685+47	00735' RT 670+61	00707' LT 673+98	00702' LT 679+46	00713' LT 684+37	00729' RT 687+53	00726' LT 691+35



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 663+00 TO 692+00 RT - 25' FROM NEW 12" PIPE €
 STA. 663+00 TO 683+02 LT - 50' FROM NEW 12" PIPE €

INSTALL CONSTRUCTION DEMARCATION:
 STA. 683+02 TO 684+48 LT - 25' FROM NEW 12" PIPE €
 STA. 684+48 TO 692+00 LT - 50' FROM NEW 12" PIPE €

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 683+02 TO 684+48 LT - 25' FROM NEW 12" PIPE €

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE: 1" = 100'
 VERTICAL SCALE: 1" = 10'

CONST. TYPE	1A		2A		1A	
SOIL TYPE	Lyd		CaC (PAS)	LmB (PAS)	LmC	PeC (PAS)
LC/LU	RESIDENTIAL	NOT CLASSIFIED	FORESTED/POWERLINES	RESIDENTIAL	RESIDENTIAL	NOT CLASSIFIED
STREAMS						
WETLANDS						
VERNAL POOLS						
SIGNIFICANT NATURAL COMMUNITIES						
RTE SPECIES						
NRC WILDLIFE HABITAT						
ARCHAEOLOGY SITES						

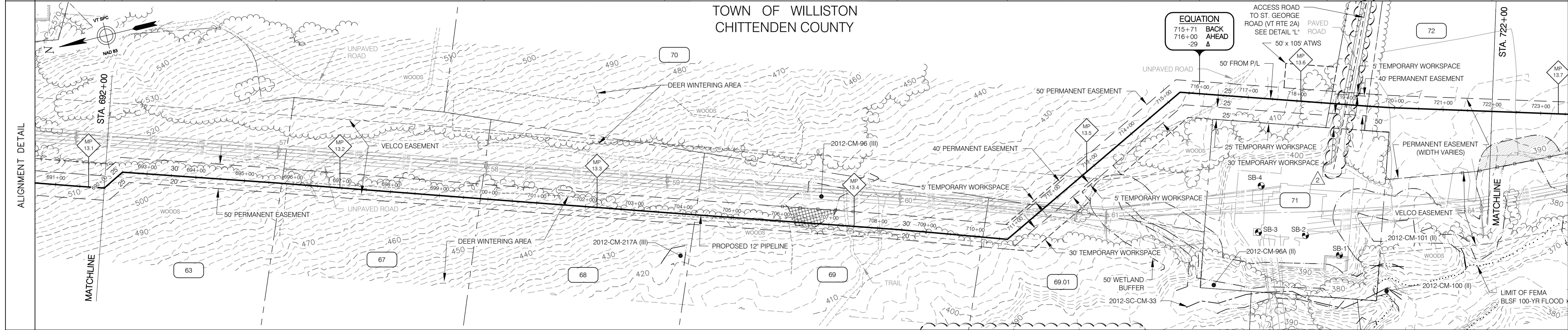
ANGP-T-C-026	ALIGNMENT SHEET	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-026	REV. 0
							ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN LOC. CHITTENDEN COUNTY, VERMONT 			
							DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016				
							DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016				
							DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016				
							DESIGN MANAGER	SAB	06/28/13	JEO	05/2016				

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 • www.chacompanies.com

RIGHT-OF-WAY			63 N/F MARCOTTE, NORMAN & RITA A.	67 N/F SPENCER, REBECCA	68 N/F TANDAN, RUP & PATRICIA	69 N/F MORIN, JOHN M.; PELKEY-MORIN, LAUREL	70 N/F SPERONI, ALDO E. & MARY L.	71 N/F VERMONT TRANSCO LLC	72 N/F LACLAIR, KERMIT E., DIANE D. & RANDALL	
SURVEY DATA		44°59' RT S 27° 17' E 692+50	00°26' RT S 17° 42' W 695+65	00°07' LT S 18° 08' W 699+93	00°07' LT S 18° 01' W 703+63	00°25' RT S 17° 53' W 708+41	45°31' LT S 18° 49' W 710+67	44°59' RT S 17° 57' W 715+31 Bck: 715+71 And: 716+00	00°00' LT S 17° 57' W 718+63 00°30' LT S 17° 27' W 719+41 01°35' LT S 15° 51' W 719+92	



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND		INSTALL CONSTRUCTION DEMARCATION: STA. 692+00 TO 692+55 RT - 25' FROM NEW 12" PIPE € STA. 692+00 TO 692+46 LT - 25' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 692+55 TO 710+67 RT - 20' FROM NEW 12" PIPE € STA. 692+46 TO 710+84 LT - 30' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 710+67 TO 710+88 RT - WIDTH VARIES FROM NEW 12" PIPE € STA. 710+88 TO 712+46 LT - 50' FROM NEW 12" PIPE € STA. 710+84 TO 717+72 LT - 25' FROM NEW 12" PIPE € STA. 712+46 TO 713+30 RT - 25' FROM NEW 12" PIPE € STA. 713+30 TO 719+92 RT - 50' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 717+72 TO 718+77 LT - 75' FROM NEW 12" PIPE €		INSTALL CONSTRUCTION DEMARCATION: STA. 719+92 TO 722+00 RT - WIDTH VARIES FROM NEW 12" PIPE € STA. 718+71 TO 722+00 LT - 25' FROM NEW 12" PIPE €	
	PERMANENT EASEMENT	--- ---	INSTALL REINFORCED PERIMETER CONTROL: STA. 705+63 TO 707+62 LT - 30' FROM NEW 12" PIPE €	INSTALL MATTING: STA. 706+13 TO 707+12	INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 719+06	HORIZONTAL SCALE 100 50 0 100 200 300 feet		VERTICAL SCALE 100 50 0 100 200 300 feet				

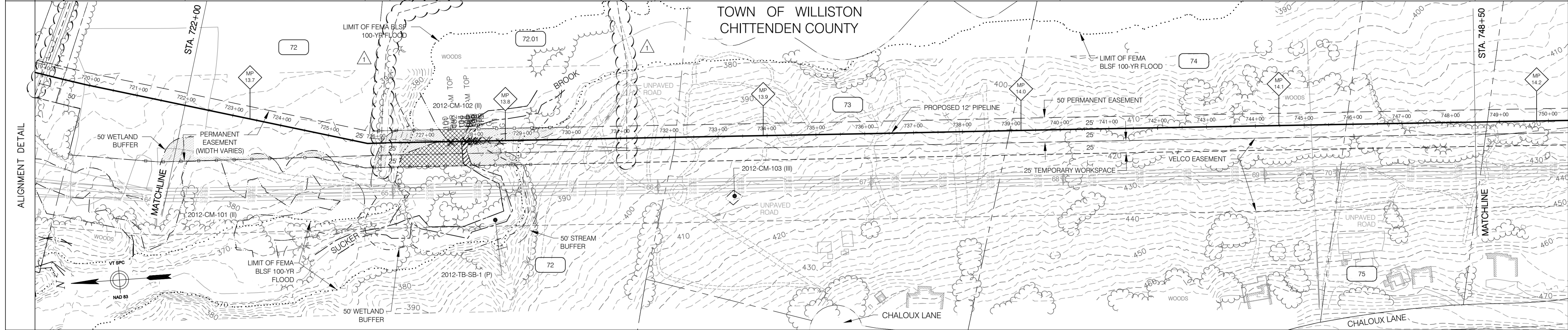
CONST. TYPE	1A	2A	2D	W	1J	2A	1E	1J	1E	
SOIL TYPE	P&C (PAS)	P&C (PAS)	GrB (PAS)		MyC (PAS)			MuD		
LC/LU	NOT CLASSIFIED			RESIDENTIAL	RESIDENTIAL	FORESTED/POWERLINES	RESIDENTIAL	RESIDENTIAL	PAVED TRAVEL	GRASS AGRICULTURE
STREAMS										
WETLANDS	MATCH LINE									
VERNAL POOLS	MATCH LINE									
SIGNIFICANT NATURAL COMMUNITIES										
RTE SPECIES										
NRC WILDLIFE HABITAT	DEER WINTERING AREA									
ARCHAEOLOGY SITES										

Vermont Gas PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN		Vermont Gas		Vermont Gas	
ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	LOC. CHITTENDEN COUNTY, VERMONT YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-027 REV. 2
DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016	
DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016	
DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016	
DESIGN MANAGER	SAB	06/28/13	JEO	05/2016	
ANGP-T-G-07-010	ACCESS ROAD DETAILS	2	GJM	BCK	IFC 2016 EDITS (05/2016)
ANGP-T-C-027	ALIGNMENT SHEET	1	BCK	TDB	VHB EDITS (6/09/15)
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION

VHB Vanasse Hangen Brustlin, Inc.

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chiacompanies.com

RIGHT-OF-WAY			72 N/F LACLAIR, KERMIT E., DIANE D. & RANDALL	72.01 N/F LACLAIR, STEPHEN D. & JUDY	73 N/F CUNEO, TERRENCE & KARI	74 N/F THERESE M. CARBINO REVOCABLE TRUST; C/O CARBINO, THERESE M.	75 N/F TOWERS, LEE R. & JUDITH A.	
SURVEY DATA			S 15° 51' W	S 02° 59' W	S 03° 00' W	S 02° 51' W	S 03° 00' W	S 03° 04' W



EROSION PREVENTION & SEDIMENT CONTROL

LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 722+00 TO 725+82 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 725+82 TO 748+50 RT - 50' FROM NEW 12" PIPE
 STA. 722+00 TO 748+50 LT - 25' FROM NEW 12" PIPE

INSTALL REINFORCED PERIMETER CONTROL:
 STA. 722+00 TO 725+82 RT - WIDTH VARIES FROM NEW 12" PIPE
 STA. 725+82 TO 727+84 RT - 50' FROM NEW 12" PIPE
 STA. 725+93 TO 727+87 LT - 25' FROM NEW 12" PIPE

INSTALL MATTING:
 STA. 726+42 TO 727+87

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 734+68

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 744+68

HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 10'

CONST. TYPE		(1E)	(W)	(W)	(7)	(1E)		
SOIL TYPE		Myc (PAS)	MuD	Myc (PAS)		PsC	PicC (PAS)	Myc (PAS)
LC/LU		GRASS	FORESTED			GRASS		RESIDENTIAL
STREAMS								STREAM 2012-TB-SB-01(P) - STATION 727+74 TO 728+04
WETLANDS								WETLAND 2012-CM-102 - STATION 725+92 TO +729+72 CLASS II
VERNAL POOLS								WETLAND 2012-CM-101 - STATION 723+99 TO 723+16 CLASS II WETLAND 2012-CM-101 - STATION 724+39 TO 725+12 CLASS II
SIGNIFICANT NATURAL COMMUNITIES								
RTE SPECIES								
NRC WILDLIFE HABITAT								
ARCHAEOLOGY SITES								

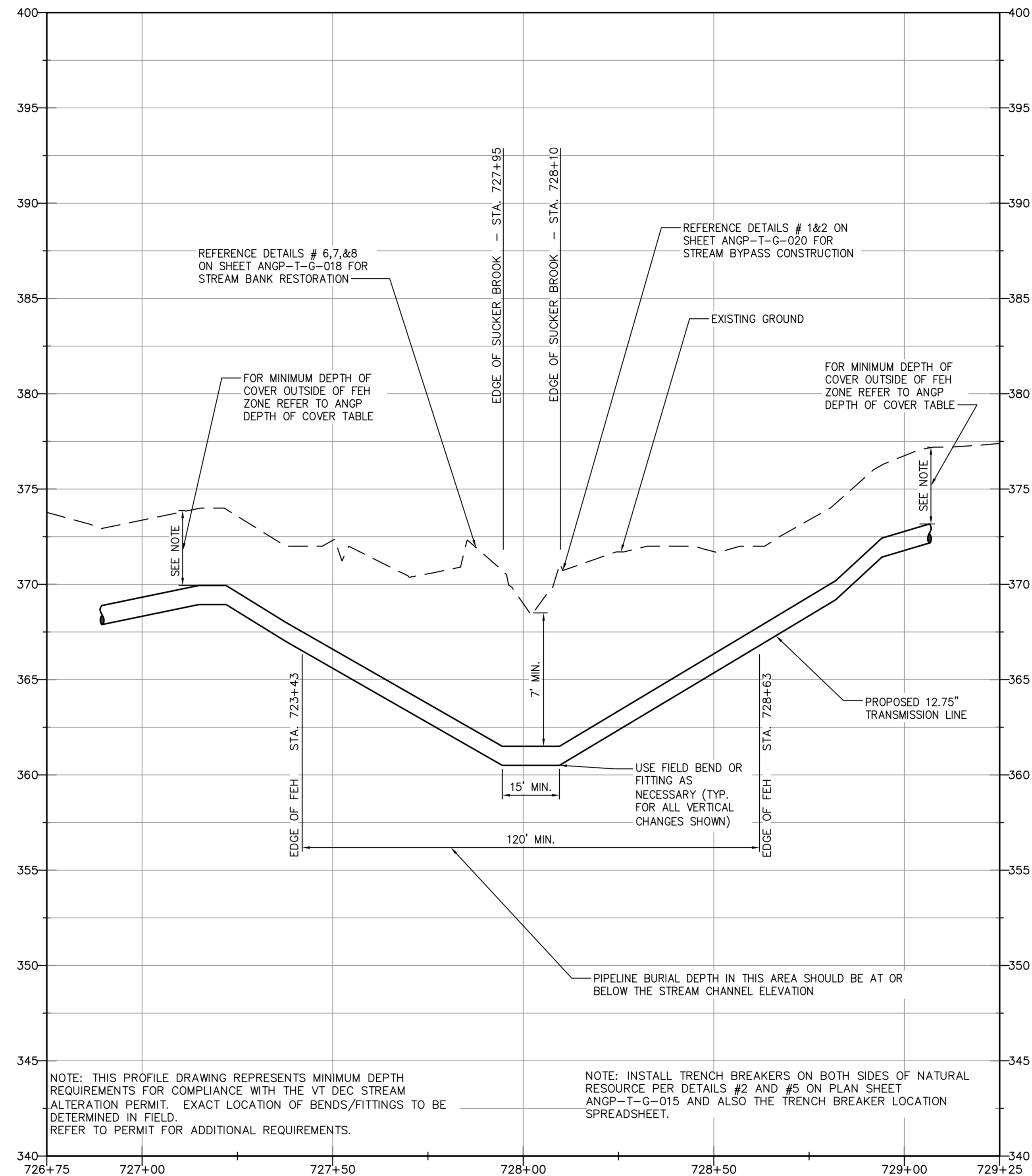
ANGP-T-C-028	ALIGNMENT SHEET	1	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN			
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016				W.O.

VHB Vanasse Hangen Brustlin, Inc.

CIA

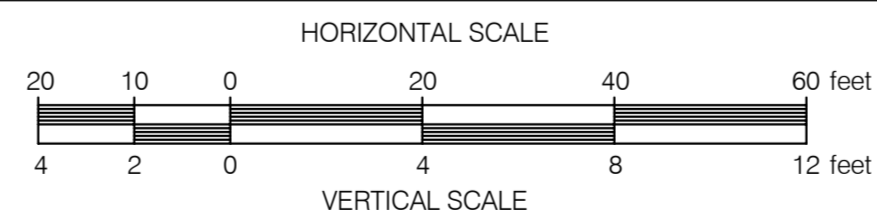
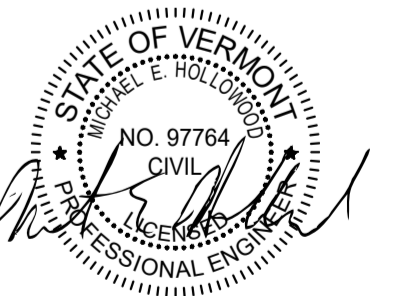
38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 - www.chacompanies.com

PROFILE

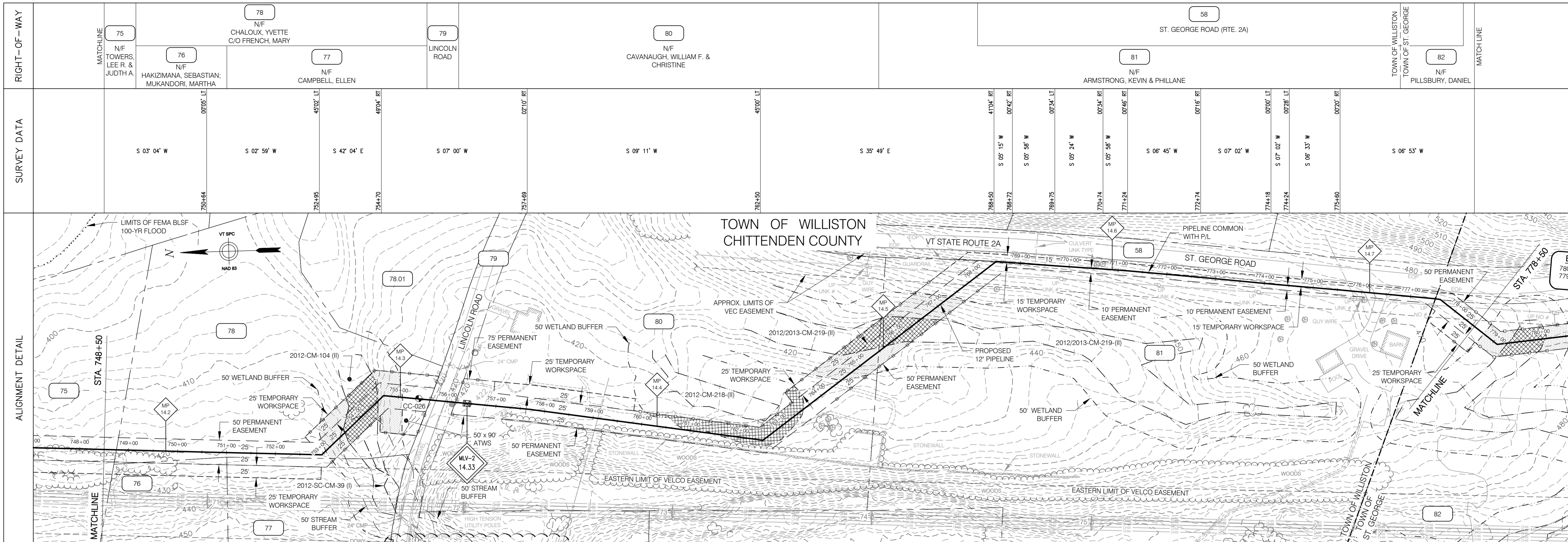


STREAM CROSSING PROFILE
SUCKER BROOK
STATION 728+02±
MILE POST 13.79
 SCALE: HORIZ. 1"=20'
 VERT. 1"=4'

NOTE: STREAM CROSSING MUST BE CONSTRUCTED BETWEEN JUNE 1 AND OCTOBER 1



								ENVIRONMENTAL JLS 06/28/13 DRAFTING DESIGNER GIL 06/28/13 DRAFTING SUPERVISOR BZD 06/28/13 DESIGN ENGINEER MDF 06/28/13 DESIGN MANAGER SAB 06/28/13				BID JLS 06/28/13 GIL 06/28/13 BZD 06/28/13 MDF 06/28/13 SAB 06/28/13				CONSTRUCTION JLS 05/2016 GJM 05/2016 BCK 05/2016 GEW 05/2016 JEO 05/2016				VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT OPEN TRENCH STREAM CROSSING PROFILE LOC. CHITTENDEN COUNTY, VERMONT								38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 795-0372 - www.chacompanies.com	
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: AS NOTED	DWG. ANGP-T-C-028A	REV. 0															

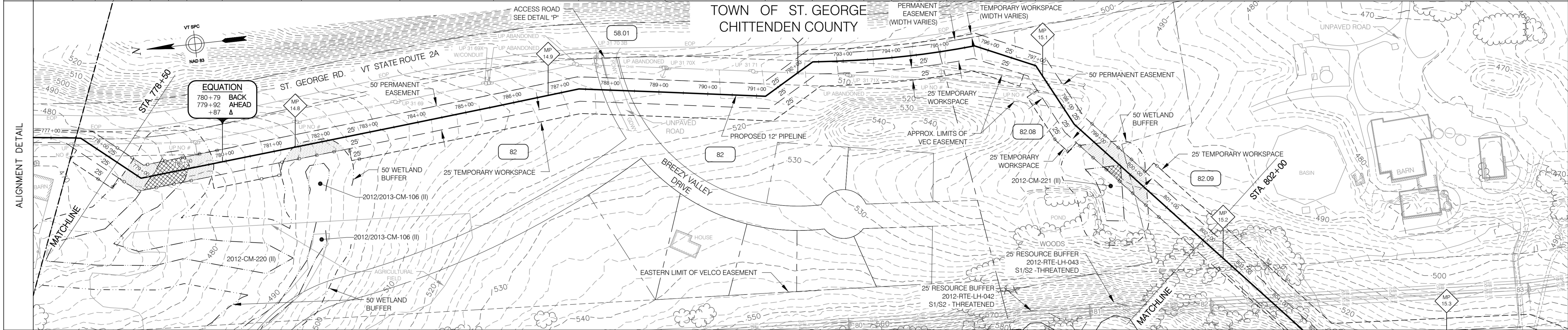


EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	<p>INSTALL CONSTRUCTION DEMARCATION: STA. 748+50 TO 752+94 RT - 50' FROM NEW 12" PIPE ☺ STA. 748+50 TO 752+60 LT - 25' FROM NEW 12" PIPE ☺</p> <p>INSTALL CONSTRUCTION DEMARCATION: STA. 752+94 TO 754+54 RT - 25' FROM NEW 12" PIPE ☺ STA. 752+60 TO 755+65 LT - 50' FROM NEW 12" PIPE ☺ STA. 754+54 TO 755+65 RT - 75' FROM NEW 12" PIPE ☺</p> <p>INSTALL CONSTRUCTION DEMARCATION: STA. 756+10 TO 768+78 RT - 25' FROM NEW 12" PIPE ☺ STA. 756+30 TO 759+81 LT - 50' FROM NEW 12" PIPE ☺</p> <p>INSTALL CONSTRUCTION DEMARCATION: STA. 759+81 TO 763+45 LT - 25' FROM NEW 12" PIPE ☺ STA. 763+45 TO 768+00 LT - 50' FROM NEW 12" PIPE ☺</p> <p>INSTALL CONSTRUCTION DEMARCATION: STA. 768+00 TO 772+30 RT - 10' FROM NEW 12" PIPE ☺ STA. 772+30 TO 777+70 RT - 10' FROM NEW 12" PIPE ☺ STA. 777+70 TO 778+50 RT - 50' FROM NEW 12" PIPE ☺ STA. 777+30 TO 777+70 RT - WIDTH VARIES FROM NEW 12" PIPE ☺</p> <p>INSTALL CONSTRUCTION DEMARCATION: STA. 778+00 TO 778+50 LT - 25' FROM NEW 12" PIPE ☺</p>											
	<p>INSTALL REINFORCED PERIMETER CONTROL: STA. 752+94 TO 754+37 RT - 25' FROM NEW 12" PIPE ☺ STA. 753+61 TO 755+78 LT - 50' FROM NEW 12" PIPE ☺ STA. 754+13 TO 755+44 RT - 75' FROM NEW 12" PIPE ☺</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 756+10 TO 756+60 RT - 25' FROM NEW 12" PIPE ☺ STA. 756+30 TO 756+80 LT - 50' FROM NEW 12" PIPE ☺</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 759+81 TO 763+45 LT - 25' FROM NEW 12" PIPE ☺</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 764+06 TO 768+24 RT - 25' FROM NEW 12" PIPE ☺ STA. 763+45 TO 767+53 LT - 50' FROM NEW 12" PIPE ☺</p> <p>INSTALL REINFORCED PERIMETER CONTROL: STA. 778+19 TO 778+50 RT - 50' FROM NEW 12" PIPE ☺ STA. 778+24 TO 778+50 LT - 25' FROM NEW 12" PIPE ☺</p>	<p>INSTALL MATTING: STA. 753+52 TO 754+77</p> <p>INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 755+72 & STA. 756+30</p> <p>INSTALL MATTING: STA. 760+06 TO 763+70</p> <p>INSTALL MATTING: STA. 765+68 TO 766+59</p>	<p>1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRIES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.</p> <p>2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.</p>	<p>HORIZONTAL SCALE</p> <p>VERTICAL SCALE</p>									
	CONST. TYPE	1E	1A	W	7	W	1A	11	1A	2A	W	1A	4H

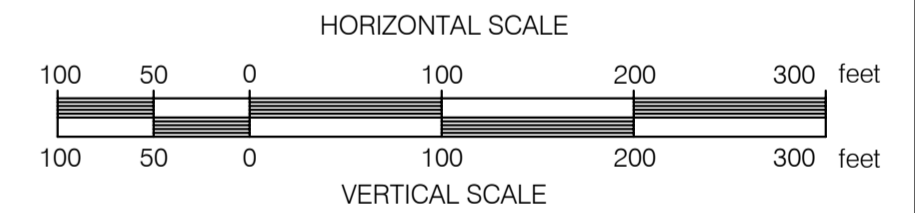
SOIL TYPE	PeC (PAS)	LyD	MuD	Myc (PAS)	LyD	LyD	CaC (PAS)						
LC/LU	GRASS		UNPAVED TRAVEL	RESIDENTIAL			GRASS	RESIDENTIAL	AGRICULTURE				
STREAMS													
WETLANDS	WETLAND 2012-CM-104 - STATION 753+52 TO 754+77 CLASS II			WETLAND 2012-CM-218 - STATION 764+06 TO 767+54 CLASS II			WETLAND 2012/2013-CM-219 - STATION 764+06 TO 767+54 CLASS II						
VERNAL POOLS													
SIGNIFICANT NATURAL COMMUNITIES													
RTE SPECIES													
NRC WILDLIFE HABITAT													
ARCHAEOLOGY SITES													
ANGP-T-G-07-10	ACCESS ROAD DETAILS												
ANGP-T-G-021	STATION AND VALVE DETAILS												
ANGP-T-C-029	ALIGNMENT SHEET	1	BCK	TDB	VHB EDITS (6/09/15)								
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION								
					INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-029	REV. 1

ENVIRONMENTAL DRAFTING DESIGNER DRAFTING SUPERVISOR DESIGN ENGINEER DESIGN MANAGER			BID JLS 06/28/13 GIL 06/28/13 BZD 06/28/13 MDF 06/28/13 SAB 06/28/13			CONSTRUCTION JLS 05/2016 GJM 05/2016 BCK 05/2016 GEW 05/2016 JEO 05/2016			VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN LOC. CHITTENDEN COUNTY, VERMONT YEAR: 2016 W.O. SCALE: 1" = 100'				 38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 · www.ciacompanies.com
VHB Vanasse Hangen Brustlin, Inc.													

RIGHT-OF-WAY	MATCHLINE	82 N/F PILLSBURY, DANIEL	82 N/F PILLSBURY, DANIEL	58.01 ST. GEORGE ROAD VT STATE ROUTE 2A	82.08 N/F PILLSBURY, LARRY & CAROLYN	82.09 N/F PILLSBURY, DANIEL	MATCHLINE
SURVEY DATA	777+51 S 06° 53' W 777+54 S 10° 11' W 777+56 S 10° 01' W 777+59 S 09° 51' W 777+61 S 09° 41' W 779+09 S 39° 53' W S 05° 07' E 86.6 ft Bk: 780+79 And: 779+92 781+57 783+63 785+58 787+36 789+13 791+18 792+37 792+66 793+43 794+00 794+57 795+14 795+71 797+02 798+46	0317' RT 0009' LT 0009' LT 0009' LT 3071' RT 4459' LT 0001' LT 0008' LT 0013' LT 1356' RT 0011' RT 3827' LT 3420' RT 0054' LT 0148' LT 0148' LT 0148' LT 0148' LT 0148' LT 0148' LT 0148' LT 2749' RT 3852' RT 1444' LT	S 05° 07' E S 05° 08' E S 05° 16' E S 05° 30' E S 08° 27' W S 08° 38' W S 29° 50' E S 04° 31' W S 03° 36' W S 01° 48' W S 00° 00' W S 01° 48' E S 03° 37' E S 24° 12' W S 63° 04' W S 48° 20' W				



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL CONSTRUCTION DEMARCATION: STA. 778+50 TO 778+70 RT - 50' FROM NEW 12" PIPE STA. 778+50 TO 780+51 RT - 25' FROM NEW 12" PIPE STA. 778+50 TO 800+20 LT - 25' FROM NEW 12" PIPE INSTALL REINFORCED PERIMETER CONTROL: STA. 778+50 TO 778+70 RT - 50' FROM NEW 12" PIPE STA. 778+70 TO 778+51 RT - 25' FROM NEW 12" PIPE STA. 778+50 TO 780+21 LT - 25' FROM NEW 12" PIPE INSTALL MATTING: STA. 779+09 TO 780+11 STA. 781+58 TO 781+98	INSTALL CONSTRUCTION DEMARCATION: STA. 780+51 TO 781+05 RT - 50' FROM NEW 12" PIPE STA. 781+05 TO 782+50 RT - 25' FROM NEW 12" PIPE STA. 782+50 TO 796+84 RT - 50' FROM NEW 12" PIPE INSTALL REINFORCED PERIMETER CONTROL: STA. 780+53 TO 781+05 RT - 50' FROM NEW 12" PIPE STA. 781+05 TO 781+50 RT - 25' FROM NEW 12" PIPE STA. 781+50 TO 783+02 RT - 50' FROM NEW 12" PIPE INSTALL STABILIZED CONSTRUCTION ENTRANCE: STA. 788+00	INSTALL CONSTRUCTION DEMARCATION: STA. 796+84 TO 797+49 RT - 25' FROM NEW 12" PIPE STA. 797+49 TO 798+70 RT - 50' FROM NEW 12" PIPE STA. 798+70 TO 802+00 RT - 25' FROM NEW 12" PIPE INSTALL REINFORCED PERIMETER CONTROL: STA. 798+37 TO 798+70 RT - 50' FROM NEW 12" PIPE STA. 798+76 TO 800+20 LT - 25' FROM NEW 12" PIPE INSTALL MATTING: STA. 799+50 TO 799+98	INSTALL CONSTRUCTION DEMARCATION: STA. 800+20 TO 802+00 LT - 50' FROM NEW 12" PIPE INSTALL REINFORCED PERIMETER CONTROL: STA. 798+70 TO 801+21 RT - 25' FROM NEW 12" PIPE STA. 800+20 TO 800+56 LT - 50' FROM NEW 12" PIPE
	1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6. 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.				



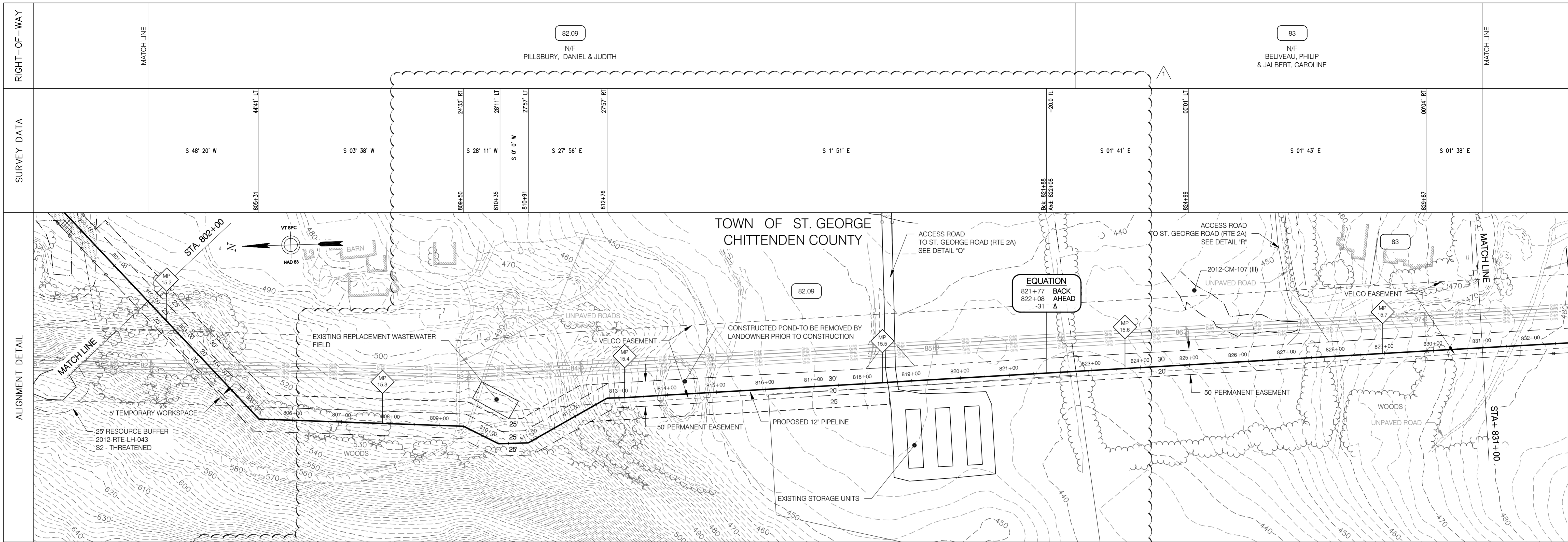
CONST. TYPE	1E	W	2A	1E	2A	W	1E	11	1E	2A	1E	2A	W	1A	
SOIL TYPE							CaC (PAS)			LyD		LmC	FsC	FsB (PAS)	FsE
LC/LU	GRASS						UNPAVED TRAVEL	AGRICULTURAL		GRASS	AGRICULTURAL				
STREAMS															
WETLANDS	WETLAND 2012-CM-220 - STATION 777+50 TO 779+84 CLASS II				WETLAND 2012/2013-CM-106 STATION 781+05 TO 782+52 CLASS II				WETLAND 2012-CM-221 - STATION 798+75 TO 800+71 CLASS II						
VERNAL POOLS															
SIGNIFICANT NATURAL COMMUNITIES															
RTE SPECIES															
NRC WILDLIFE HABITAT															
ARCHAEOLOGY SITES															

ANGP-T-C-07-10	ACCESS ROAD DETAILS																		
ANGP-T-C-030	ALIGNMENT SHEET																		
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION					INITIALS	DATE	INITIALS	DATE	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-030	REV. 0	
										BID	CONSTRUCTION	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN							
										ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	LOC. CHITTENDEN COUNTY, VERMONT Vermont Gas				
										DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016					
										DRAFTING SUPERVISOR	BZD	06/28/13	BCK	05/2016					
										DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016					
										DESIGN MANAGER	SAB	06/28/13	JEO	05/2016					

VHB Vanasse Hangen Brustlin, Inc.

CIA

38 Eastwood Drive, Suite 105
South Burlington, VT 05403
Main: (802) 735-0372 • www.chiacompanies.com



LEGEND

- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- CENTERLINE OF STREAM
- TEMPORARY STREAM CROSSING
- WETLAND
- 50' WETLAND BUFFER
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER WITHIN PROJECT AREA
- REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL

INSTALL CONSTRUCTION DEMARCATION:
 STA. 802+00 TO 812+21 RT - 25' FROM NEW 12" PIPE ε
 STA. 802+00 TO 812+45 LT - 50' FROM NEW 12" PIPE ε

INSTALL CONSTRUCTION DEMARCATION:
 STA. 812+21 TO 812+89 RT - WIDTH VARIES FROM NEW 12" PIPE ε
 STA. 812+89 TO 818+52 RT - 45' FROM NEW 12" PIPE ε
 STA. 812+45 TO 812+80 LT - WIDTH VARIES FROM NEW 12" PIPE ε
 STA. 812+80 TO 831+00 LT - 30' FROM NEW 12" PIPE ε

INSTALL CONSTRUCTION DEMARCATION:
 STA. 818+52 TO 831+00 RT - 20' FROM NEW 12" PIPE ε

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 818+60

INSTALL STABILIZED CONSTRUCTION ENTRANCE:
 STA. 827+38

1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6.
 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.

HORIZONTAL SCALE

 VERTICAL SCALE

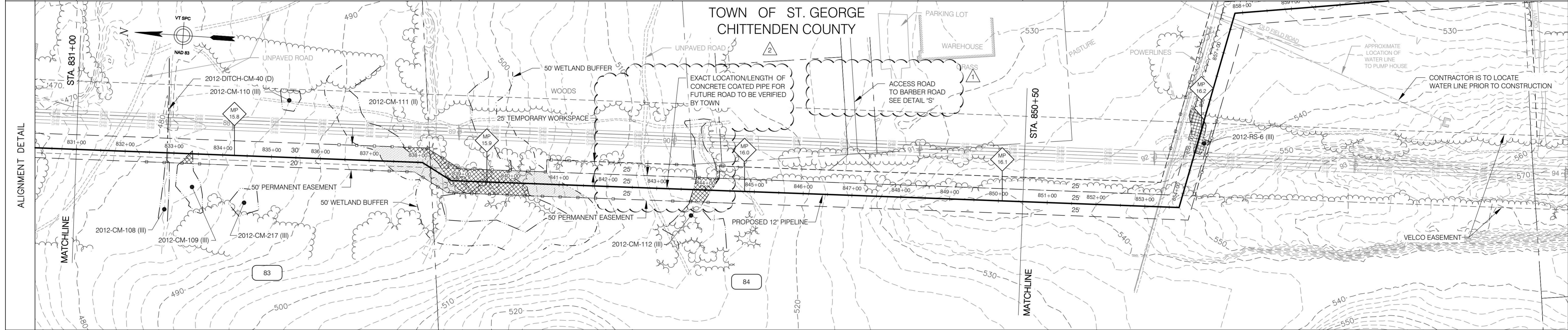
CONST. TYPE	(1A)	(1H)	(1A)	(2D)
SOIL TYPE	FaE	FaC	FaC	SoA (PAS)
LC/LU	FORESTED/POWERLINE			PASTURE
STREAMS	AGRICULTURE			
WETLANDS	NOT CLASSIFIED			
VERNAL POOLS				
SIGNIFICANT NATURAL COMMUNITIES				
RTE SPECIES				
NRC WILDLIFE HABITAT				
ARCHAEOLOGY SITES				

ANGP-T-G-07-010	ACCESS ROAD DETAILS	1	BCK	TDB	PILLSBURY REROUTE (6/05/15)	ENVIRONMENTAL	JLS	06/28/13	CONSTRUCTION	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN LOC. CHITTENDEN COUNTY, VERMONT YEAR: 2016 W.O. SCALE: 1" = 100' DWG. ANGP-EPSC-031 REV. 1
ANGP-T-C-031	ALIGNMENT SHEET	1	BCK	TDB	PILLSBURY REROUTE (6/05/15)	DRAFTING DESIGNER	GIL	06/28/13	DRAFTING SUPERVISOR	GJM	05/2016	
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN ENGINEER	MDF	06/28/13	DESIGN MANAGER	GEW	05/2016	

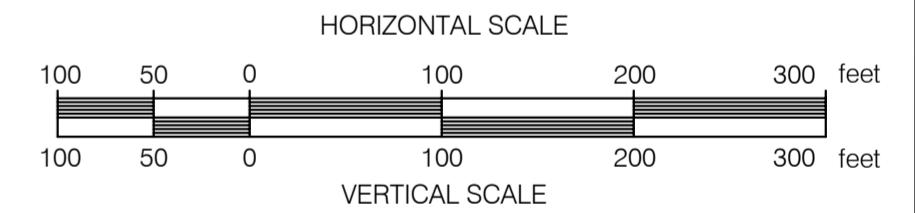
VERMONT GAS

38 Eastwood Drive, Suite 105
 South Burlington, VT 05403
 Main: (802) 735-0372 www.ciacompanies.com

RIGHT-OF-WAY	MATCHLINE	83 N/F BELIVEAU, PHILIP	84 N/F TOWN OF ST. GEORGE	MATCHLINE
SURVEY DATA		00003' LT S 01° 38' E	3070' RT S 28° 30' W 3070' LT S 01° 41' E 00702' LT	00003' RT S 01° 45' E



EROSION PREVENTION & SEDIMENT CONTROL	LEGEND	INSTALL CONSTRUCTION DEMARCATION: STA. 831+00 TO 837+90 RT - 20' FROM NEW 12" PIPE € STA. 831+00 TO 838+09 LT - 30' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 837+90 TO 850+50 RT - 25' FROM NEW 12" PIPE € STA. 838+09 TO 840+90 LT - 25' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 840+90 TO 843+70 LT - 50' FROM NEW 12" PIPE € STA. 843+70 TO 844+25 LT - 25' FROM NEW 12" PIPE € STA. 844+25 TO 850+50 LT - 50' FROM NEW 12" PIPE €	INSTALL CONSTRUCTION DEMARCATION: STA. 840+90 TO 843+70 LT - 50' FROM NEW 12" PIPE € STA. 843+70 TO 844+25 LT - 25' FROM NEW 12" PIPE € STA. 844+25 TO 850+50 LT - 50' FROM NEW 12" PIPE €
	PERMANENT EASEMENT TEMPORARY WORKSPACE CENTERLINE OF STREAM TEMPORARY STREAM CROSSING WETLAND 50' WETLAND BUFFER TEMPORARY WETLAND MATTING WETLAND BUFFER WITHIN PROJECT AREA REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROL	INSTALL REINFORCED PERIMETER CONTROL: STA. 832+33 TO 833+90 RT - 20' FROM NEW 12" PIPE € STA. 833+13 TO 833+40	INSTALL REINFORCED PERIMETER CONTROL: STA. 836+70 TO 837+90 RT - 20' FROM NEW 12" PIPE € STA. 837+90 TO 842+22 RT - 25' FROM NEW 12" PIPE € STA. 836+05 TO 838+09 LT - 30' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 838+09 TO 840+90 LT - 25' FROM NEW 12" PIPE € STA. 840+90 TO 841+30 LT - 50' FROM NEW 12" PIPE €	INSTALL REINFORCED PERIMETER CONTROL: STA. 843+18 TO 844+47 RT - 25' FROM NEW 12" PIPE € STA. 843+27 TO 843+70 LT - 50' FROM NEW 12" PIPE € STA. 843+70 TO 844+25 LT - 25' FROM NEW 12" PIPE € STA. 844+25 TO 844+75 LT - 50' FROM NEW 12" PIPE €
	INSTALL MATTING: STA. 832+83 TO 832+91 STA. 833+13 TO 833+40	INSTALL MATTING: STA. 837+69 TO 840+44	INSTALL MATTING: STA. 843+68 TO 844+27		
	1. REINFORCED CONSTRUCTION DEMARCATION AND REINFORCED PERIMETER CONTROLS ARE ONLY SHOWN WITHIN 50 FT. OF WATER RESOURCE AREAS AND AT CONSTRUCTION ENTRANCES - SEE "CONSTRUCTION EPSC NOTES" - NOTE #6. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS ARE NOT TO CROSS ACCESS WAYS OR ACTIVE FLOW PATHS. FOR AREAS THAT ARE > 50 FT. FROM WATER RESOURCE AREAS, CONSTRUCTION DEMARCATION IS TO BE INSTALLED ALONG PERIMETER OF PROJECT AREA / LIMITS OF DISTURBANCE AND PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF - SEE NOTE #6. 2. FOR AREAS DESIGNATED AS PRIME AGRICULTURAL SOILS (PAS), SEE "CONSTRUCTION WITHIN PRIME AGRICULTURAL SOILS (PAS) AREAS" (ANGP-T-G-011), FOR SOIL SEGREGATION AND ASSOCIATED CONSTRUCTION PROCEDURES.				



CONST. TYPE	W	2D	W	2A	W	1A
SOIL TYPE	HrB MyB (PAS)	GrB (PAS)	ScB (PAS)	MyB (PAS)	PoB (PAS)	FaC
LC/LU	PASTURE NOT CLASSIFIED			FORESTED NOT CLASSIFIED		
STREAMS	STREAM 2012-DITCH-CM-40 (D) - STATION 832+86					
WETLANDS	WETLAND 2012-CM-108 & WETLAND 2012-CM-109 - STATION 832+83 TO 833+40 CLASS III		WETLAND 2012-CM-111 - STATION 836+78 TO 841+60 CLASS II		WETLAND 2012-CM-112 - STATION 843+68 TO 844+27 CLASS III	
VERNAL POOLS	MATCH LINE					
SIGNIFICANT NATURAL COMMUNITIES						
RTE SPECIES						
NRC WILDLIFE HABITAT						
ARCHAEOLOGY SITES						

ANGP-T-G-07-010	ACCESS ROAD DETAILS	2	GJM	BCK	IFC 2016 EDITS (05/2016)	ENVIRONMENTAL	JLS	06/28/13	JLS	05/2016	VERMONT GAS PROPOSED 12" PIPELINE ADDISON NATURAL GAS PROJECT EPSC PLAN				
ANGP-T-C-032	ALIGNMENT SHEET	1	BCK	TDB	VHB EDITS (6/09/15)	DRAFTING DESIGNER	GIL	06/28/13	GJM	05/2016				LOC. CHITTENDEN COUNTY, VERMONT	38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 - www.chacompanies.com
DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	DESIGN SUPERVISOR	BZD	06/28/13	BCK	05/2016	YEAR: 2016	W.O.	SCALE: 1" = 100'	DWG. ANGP-EPSC-032	REV. 2
						DESIGN ENGINEER	MDF	06/28/13	GEW	05/2016					
						DESIGN MANAGER	SAB	06/28/13	JEO	05/2016					

VHB Vanasse Hangen Brustlin, Inc.