



3. 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.

4. THE OWNER SHALL PROVIDE TESTING SERVICES TO INSURE THAT THE IN-PLACE DENSITY OF THE BACKFILL MEETS REQUIREMENTS DETERMINED IN THE SPECIFICATIONS.

5. ALL TRENCH CONSTRUCTION SHALL CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

6. CONTRACTOR SHALL ENSURE BACKFILL IS PLACED/COMPACTED IN 12" (MAX) LIFTS ABOVE THE PIPE. 7. PROVIDE SUPPORTS IN ALL LOCATIONS (PIPE PILLO, STACKED SAND BAGS, OR OWNER APPROVED EQUAL). SUPPORTS SHALL BE SECURE AND STABLE AND ADEQUATE TO SUPPORT PIPE DURING LOWERING AND BACKFILL OPERATIONS.

Spacing Guideline	12/12	<b>Typical Trench D</b>	etail-Roadways and Driveways
Source: CHA	LD_	N.T.S.	Source: CHA

- IMPORTED PADDING MATERIAL WHICH IS

TOPSOIL AND SEED OR NATIVE SOIL (WETLANDS) SEVERAL REFER TO EPSC SPECIFICATIONS ----BACKFILL CAUTION TAPE-\*\*\*\* INSTALL 12" BELOW GRADE -SHEETING (IF REQ'D) TO BE CUT OFF 24" MIN. BELOW GROUND, OR REMOVED — MIN. COVER-REFER TO CONTRACT SELECT BACKFILL / S DOCUMENTS AND TABLE PADDING (DETAIL 7 ON SHEET ANGP-T-G-015) GAS MAIN -----ROCKSHIELD, APPLY PER CONSTRUCTION MANAGER/ INSPECTION TEAM DIRECTION -- USE PIPE SUPPORTS IN ALL LOCATIONS (SEE NOTE 8) NOTES:

1. UNLESS OTHERWISE NOTED OR DIRECTED, SELECT BACKFILL MATERIAL SHALL CONSIST OF NATIVE MATERIAL CONTAINING STONES NO LARGER THAN 1.5" IN THE LONGEST DIMENSION. A SHAKER BUCKET OR SCREEN MAY BE USED IF NATIVE MATERIAL IS TOO LARGE. SAND MAY BE REQUIRED FOR SELECT BACKFILL IF DIRECTED BY CONSTRUCTION MANAGER/ INSPECTION TEAM. 2. UNLESS OTHERWISE NOTED OR DIRECTED, GENERAL BACKFILL MATERIAL SHALL CONSIST OF NATIVE MATERIAL CONTAINING

NO STONES OR CLODS LARGER THAN 3" IN THE LONGEST DIMENSION. 3. IN AREAS OF ROCK OR UNSUITABLE SOILS OR AS DETERMINED BY CONSTRUCTION MANAGER, PIPE SHALL BE BEDDED WITH COMPACTED SELECT BACKFILL. WHEN NATIVE MATERIALS ARE UNSUITABLE FOR BACKFILLING, AS DIRECTED BY CONSTRUCTION MANAGER, CONTRACTOR SHALL BACKFILL WITH COMPACTED SAND TO 12" ABOVE TOP OF PIPE. THE REMAINING TRENCH SHALL DE DACKFULED WITH AN ADDROVED MATERIAL BE BACKFILLED WITH AN APPROVED MATERIAL.

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12/12 <b>6</b> Typi	cal Trench Detail-Cross Cou	Intry		11/14	Typ	ical Minimum	Cover of Pipeline	11/14	
LD_ UD_ N.T.S.	Source: CHA	λ		LD_	N.T.S.		Source: CHA	LD_	VHB Vanasse Hangen Brustlin, Inc.
		В	ID		RUCTION		VERMONT GAS		
	ENVIRONMENTAL	JLS	06/28/13	JLS	04/02/15		POSED 12" PIPELINE		
	DRAFTING DESIGNER	GIL	06/28/13	GIL	04/02/15	ADDISON	NATURAL GAS PROJECT		
	DRAFTING SUPERVISOR	BZD	06/28/13	BCK	04/02/15	CON	STRUCTION DETAILS		
	DESIGN ENGINEER	MDF	06/28/13	TDB	04/02/15		NDEN & ADDISON COUNTIES		38 Eastwood Drive, Suite 105 South Burlington, VT 05403 Main: (802) 735-0372 · www.chacompanies.com
TH OF COVER UPDATE (6/11/15)	DESIGN MANAGER	SAB	06/28/13	JEO	04/02/15			Vermont Gas	Wain. (002) 700-0072 Www.onacompanies.com
DESCRIPTION		INITIALS	DATE	INITIALS	DATE	YEAR: 2015	W.O. SCALE: NO	DWG.	ANGP-T-G-015 REV. 1

## **Attachment 3**

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	992+80 TO 993+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:

1. 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. 4. AT A MINIMUM, MATTING IS NOT TO BE LEFT IN PLACE FOR MORE THAN 28 DAYS WHERE FEASIBLE. 5. REFER TO ADDITIONAL ENVIRONMENTAL NOTE 12 ON SHEET ANGP-T-G-011

**RTE Matting Table** 

11/14

LD\_

Source: VHB

09/13

REQUIR	IIMUM COVER EMENTS
AREA	COVER
VELCO ROW OR ROW ACCESS POINT	4'
VTRANS ROW*	4'
AG AREAS*	4'
PAVED AREAS	5'
BOTTOM OF DITCHLINE	4'
STREAMS	5' MIN. UNLESS OTHERW NOTED ON SHEET ANGP-T-G-017
ALL OTHER AREAS*	3'
UNLESS OTHERWISE NOTI PLANS OR CONSTRUCTION	ED ON APPROVED PERMIT I LINE LIST