

SLOPE STABILIZATION PILE LAYOUT PLAN

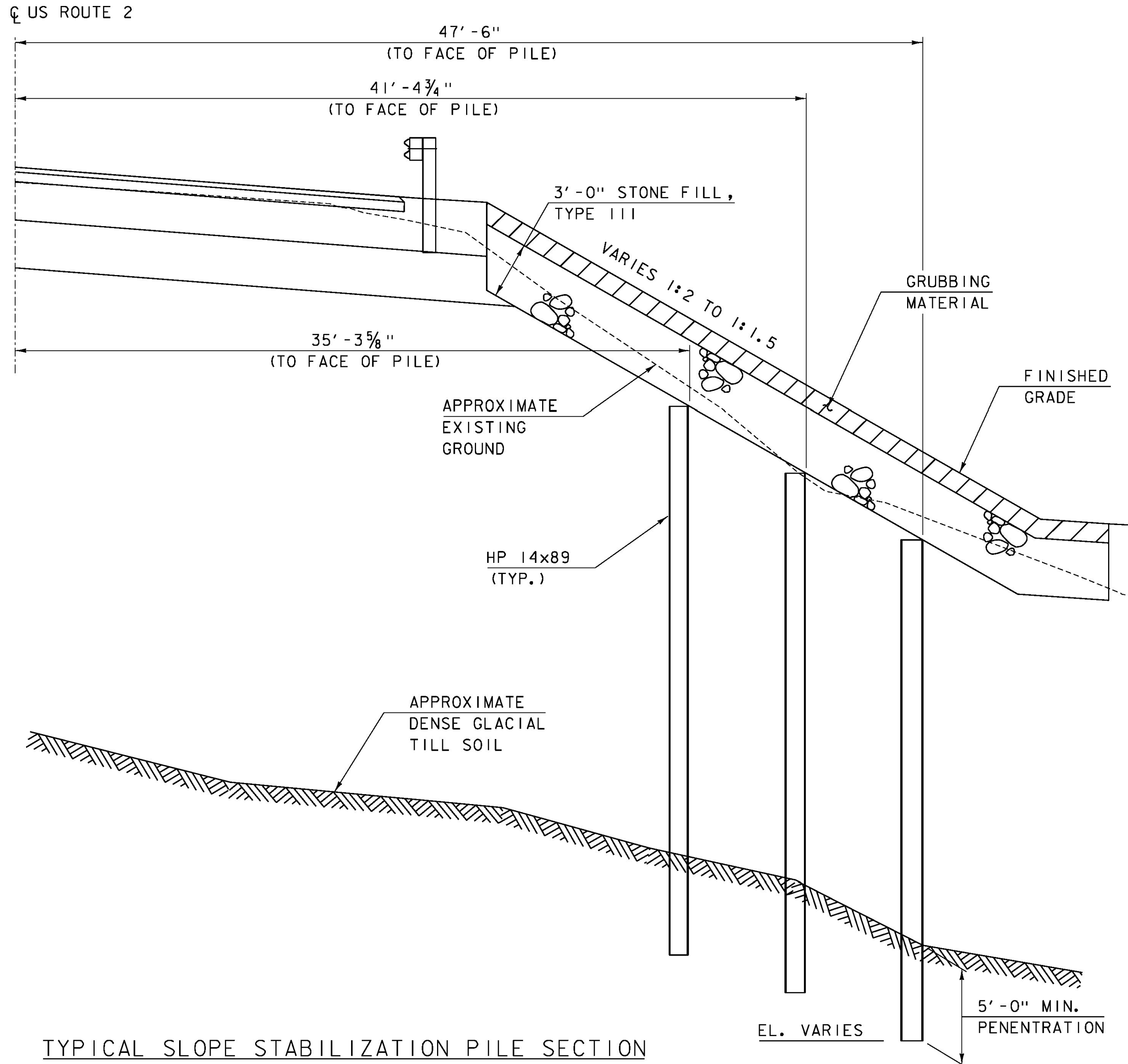
SLOPE STABILIZATION PILE NOTES:

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

- A TOTAL OF 13 PILES A MINIMUM OF 50 FEET IN LENGTH THAT WILL BE USED FOR SLOPE STABILIZATION ARE AVAILABLE AT THE VTRANS DISTRICT 5 FORT GARAGE IN COLCHESTER. THE REMAINING PILES ARE AVAILABLE AT THE VTRANS DISTRICT 5 FERRISBURGH YARD AND SHALL BE A MINIMUM OF 60 FEET IN LENGTH. AN ON-SITE MEETING AT FERRISBURGH YARD SHALL BE REQUIRED PRIOR TO REMOVING THE PILES. ALL PILES SHALL BE DELIVERED TO THE SITE AT THE CONTRACTOR'S EXPENSE. THE CONTACT INFORMATION FOR THE DISTRICT 5 OFFICE IS:  
  

PRIMARY:	SECONDARY:
REJEAN LAFLECHE	DICK HOSKING
802-654-1721 (W)	802-654-1722 (W)
802-343-1699 (C)	802-488-0222 (C)
- ALL SLOPE STABILIZATION PILING SHALL BE IN ACCORDANCE WITH VTRANS STANDARD SPECIFICATION SECTION 505 UNLESS OTHERWISE NOTED IN THE PLANS. TRANSPORTATION AND INSTALLATION OF THE PILING WILL BE PAID UNDER CONTRACT ITEM 900.640, "SPECIAL PROVISION (INSTALLATION OF STEEL PILING, HP 14X89)".
- THE PILES SHALL BE INSTALLED PRIOR TO PLACEMENT OF ADDITIONAL EMBANKMENT FILL OR EXCAVATION AT THE TOE OF SLOPE WEST OF THE CULVERT TO MAINTAIN SATISFACTORY GLOBAL SLOPE STABILITY DURING CONSTRUCTION.

- EQUIPMENT USED TO INSTALL THE PILES SHALL BE LOCATED AT THE BASE OF THE EXISTING EMBANKMENT AREA AND NOT AT THE CREST OF THE EMBANKMENT UNLESS THE CONTRACTOR SUBMITS DESIGN CALCULATIONS, SEALED BY A LICENSED ENGINEER IN THE STATE OF VERMONT, THAT DEMONSTRATE A SATISFACTORY SLOPE STABILITY FACTOR OF SAFETY OF THE EMBANKMENT UNDER THE EQUIPMENT LOAD.
- ACCEPTANCE OF THE PILES SHALL BE BASED ON INSTALLATION OF THE PILES TO A MINIMUM DEPTH OF 5 FEET BELOW THE SURFACE OF DENSE GLACIAL TILL SOILS AS DETERMINED BY THE ENGINEER BASED ON THE PENETRATION RATE. A MAXIMUM ULTIMATE AXIAL PILE CAPACITY OR NOMINAL AXIAL PILE RESISTANCE IS NOT A PROJECT REQUIREMENT. PILE LOAD TESTS ARE NOT REQUIRED.
- VIBRATORY OR SONIC METHODS TO INSTALL THE PILES SHALL BE ACCEPTABLE PROVIDED THAT THE PILES ARE INSTALLED TO THE MINIMUM DEPTH OF 5 FEET BELOW THE SURFACE OF DENSE GLACIAL TILL SOILS.
- PILE LENGTH ESTIMATES ARE BASED ON THE ESTIMATED ELEVATION OF THE SURFACE OF DENSE GLACIAL TILL SOILS IN THE PILE STABILIZATION AREA. FOR ESTIMATING PURPOSES ONLY, THE FINISHED PILE LENGTHS BELOW THE CUTOFF ELEVATION VARY FROM 23 TO 31 FEET WITH AN AVERAGE OF 27 FEET. ACTUAL PILE LENGTHS MAY VARY.



TYPICAL SLOPE STABILIZATION PILE SECTION

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

- THE NOMINAL AXIAL PILE RESISTANCE IS ESTIMATED TO BE 150 KIPS BASED ON STATIC CAPACITY ANALYSES.
- THE TOPS OF THE PILES AFTER DRIVING SHALL NOT VARY FROM THE POSITION SHOWN ON THE PLANS BY MORE THAN 4 INCHES.
- PREDRILLING OF THE PILES SHALL NOT BE PERMITTED.
- PILE SPLICES SHALL NOT BE PERMITTED.
- A HARDENED DRIVING POINT IS NOT REQUIRED, HOWEVER ANY PILES SUPPLIED BY THE AGENCY THAT ALREADY HAVE A DRIVING POINT SHALL BE PREFERABLY USED OVER PILES THAT HAVE NO TIP.
- PILES SHALL BE CUT OFF AT THE BOTTOM OF THE STONE FILL LAYER, APPROXIMATELY 4 FEET BELOW FINISHED GRADE.

PROJECT NAME:	LUNENBURG
PROJECT NUMBER:	NH CULV(27)
FILE NAME:	1lb294/cos/2lb294slopepiles.dgn
PROJECT LEADER:	J. BYATT
DESIGNED BY:	S. BEAUMONT
SLOPE STABILIZATION PILES SHEET	
PLOT DATE:	8/6/2015
DRAWN BY:	M. SMITH
CHECKED BY:	J. BYATT
SHEET	42 OF 74

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