REVIEWER NOTES:

1. ATTEMPTS TO MINIMIZE PROJECT LIMITS HAVE BEEN MADE IN ORDER TO REDUCE IMPACTS TO EXISTING RESOURCES AND PROPERTY OWNERS.

2. THE BRIDGE WILL BE CLOSED DURING CONSTRUCTION AND TRAFFIC WILL BE MAINTAINED ON A ONE-WAY TEMPORARY BRIDGE UPSTREAM. TEMPORARY TRAFFIC SIGNALS WILL BE UTILIZED ON THE ONE-WAY TEMPORARY BRIDGE.

3. A TRAFFIC CONTROL PLAN HAS BEEN SHOWN IN THE PLANS FOR CONCEPTUAL PURPOSES ONLY. THE CONTRACTOR SHALL DEVELOP AND SUBMIT THEIR OWN TRAFFIC CONTROL PLAN FOR VTRANS APPROVAL.

4. FINAL HYDRAULICS HAS BEEN REQUESTED.

5. THIS PROJECT WILL UTILIZE THE VT DEC LOW RISK SITE HANDBOOK FOR EPSC. NO SITE-SPECIFIC EPSC PLAN IS INCLUDED. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC EPSC PLAT TO VTRANS UPON CONTRAT AWARD IN ACCORDANCE WITH THEIR MEANS AND METHODS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF STOWE

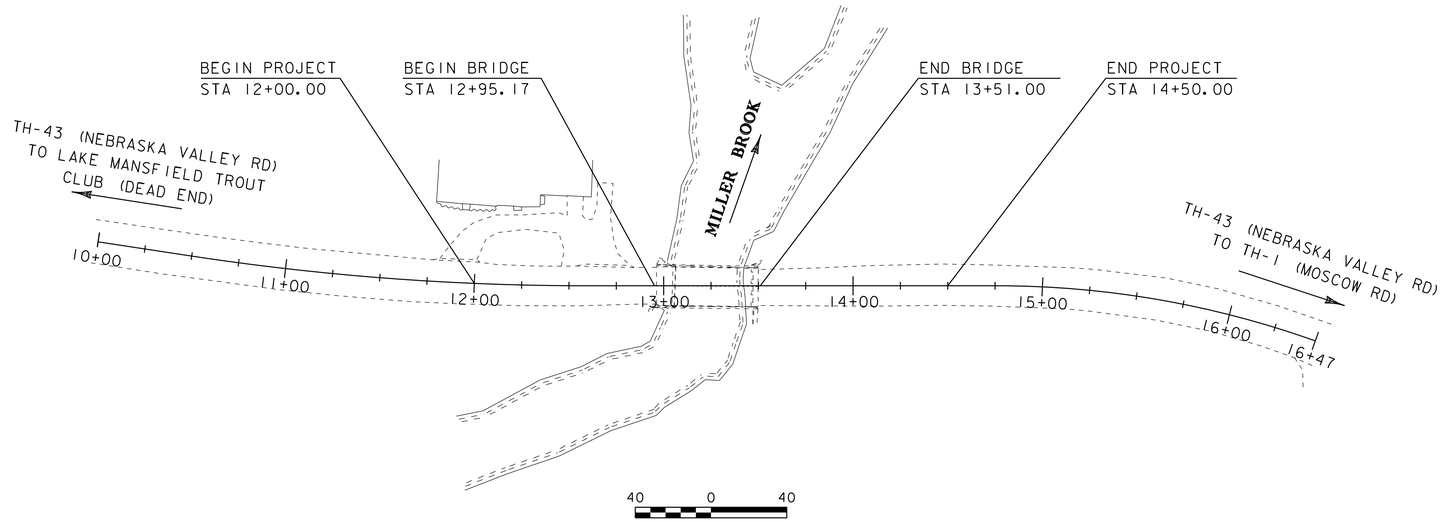
COUNTY OF LAMOILLE

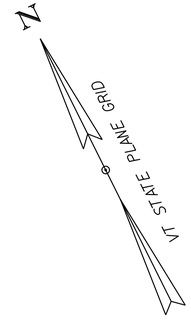
ROUTE NO : TOWN HIGHWAY 43 (CLASS 3 TOWN HIGHWAY) BRIDGE NO : 5 1

PROJECT LOCATION : ON TH 43 (NEBRASKA VALLEY ROAD) APPROXIMATELY .5 MILES NORTHWEST FROM ITS INTERSECTION WITH TH 1(MOSCOW ROAD) AND EXTENDING EASTERLY .047 MILES.

PROJECT DESCRIPTION : REPLACEMENT OF THE EXISTING BRIDGE ON ALIGNMENT INCLUDING APPROACH ROADWAY AND CHANNEL WORK RELATIVE TO PROJECT CONSTRUCTION.

LENGTH OF STRUCTURE :	55.83	FEET.
LENGTH OF ROADWAY :	194.17	FEET.
LENGTH OF PROJECT :	250.00	FEET.





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

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : R. GILMAN
SURVEYED DATE : 9/21/2009

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (96)

PRELIMINARY PLANS

25-MAR-2020

HIGHWAY DIVISION, CHIEF ENGINEER

APPROVED _____ DATE _____

PROJECT MANAGER : CAROLYN COTA, P.E.

PROJECT NAME : STOWE
PROJECT NUMBER : BO 1446 (37)

SHEET 1 OF 26 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

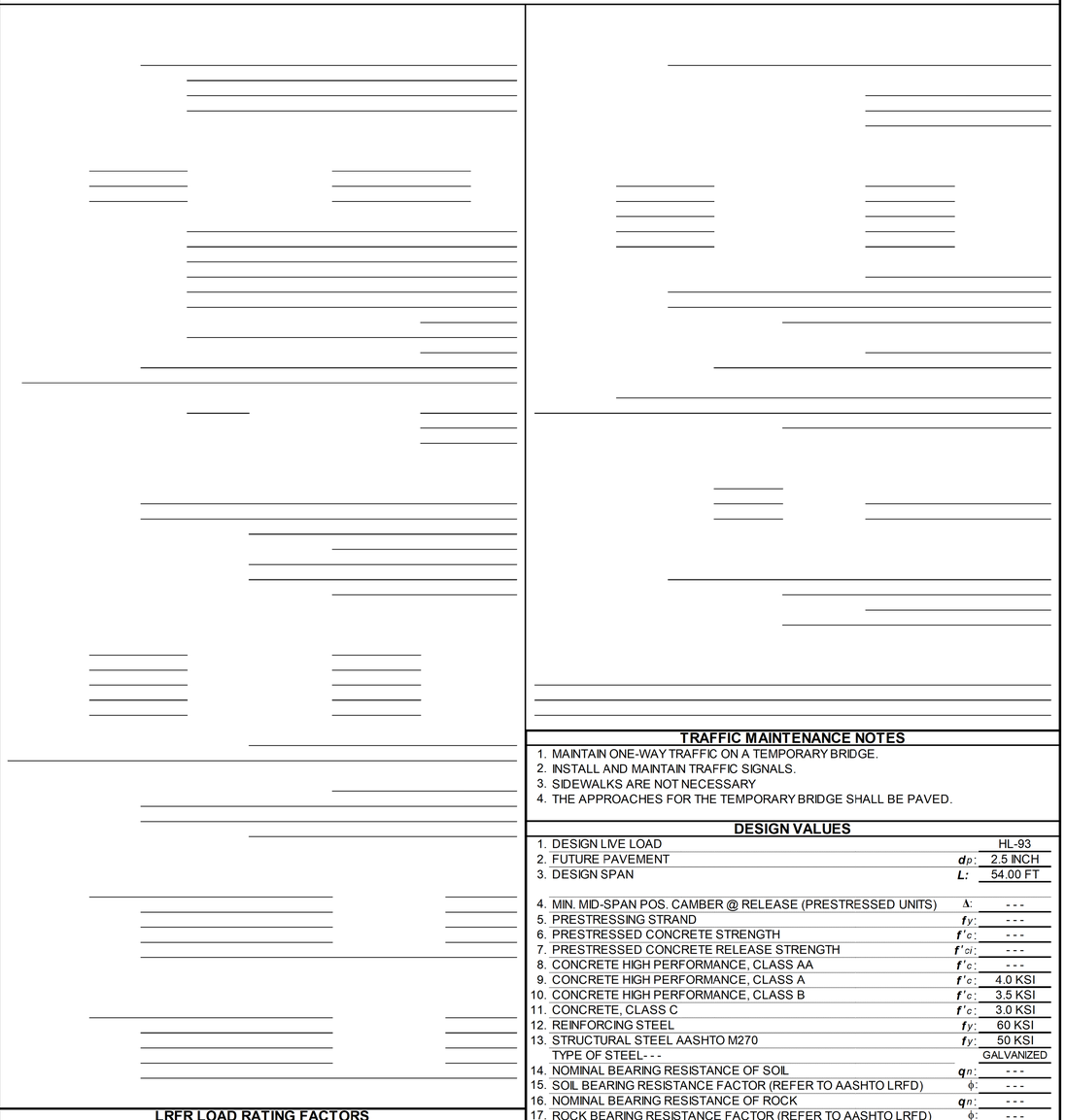
HIGHWAY SAFETY AND STRUCTURES DETAIL SHEETS

HSD-400.01	SAFETY EDGE DETAILS	01-05-2018
SD-501.00	CONCRETE DETAILS AND NOTES	02-09-2012
SD-502.00	CONCRETE DETAILS AND NOTES	10-10-2012
SD-516.10	BRIDGE JOINT, APSHALTIC PLUG	08-29-2011
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	06-04-2010
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	05-02-2011

STANDARDS LIST

A-60	STANDARD TYPICAL FOR SLOPES IN SOLID ROCK EXCAVATION DRILLING AND BLA	06-01-1994
B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07-08-2005
E-1	TREE PLANTING	07-11-2017
E-2	SHRUB PLANTING	07-11-2017
E-193	PAVEMENT MARKING DETAILS	08-18-1995
G-1BM	BOX BEAM GUARD RAIL	06-13-1997
S-364A	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
S-364B	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
S-364C	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
S-364D	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-25-2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

FINAL HYDRAULIC REPORT



TRAFFIC MAINTENANCE NOTES

1. MAINTAIN ONE-WAY TRAFFIC ON A TEMPORARY BRIDGE.
2. INSTALL AND MAINTAIN TRAFFIC SIGNALS.
3. SIDEWALKS ARE NOT NECESSARY
4. THE APPROACHES FOR THE TEMPORARY BRIDGE SHALL BE PAVED.

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_p:	2.5 INCH
3. DESIGN SPAN	L:	54.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5. PRESTRESSING STRAND	f_y:	---
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	---
8. CONCRETE HIGH PERFORMANCE, CLASS AA	f'_c:	---
9. CONCRETE HIGH PERFORMANCE, CLASS A	f'_c:	4.0 KSI
10. CONCRETE HIGH PERFORMANCE, CLASS B	f'_c:	3.5 KSI
11. CONCRETE, CLASS C	f'_c:	3.0 KSI
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270	f_y:	50 KSI
TYPE OF STEEL---		GALVANIZED
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18. PILE RESISTANCE FACTOR	ϕ:	---
19. LATERAL PILE DEFLECTION	Δ:	---
20. BASIC WIND SPEED	V_{3s}:	---
21. MINIMUM GROUND SNOW LOAD	p_g:	---
22. SEISMIC DATA PGA: ---	S_s:	---
	S_1:	---
23.		
24.		---
25.		---
26.		---

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEM
TONNAGE	**20**	**36**	**36**	**66**	**30**	**34.5**	**38**
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

TRAFFIC DATA

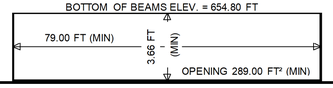
YEAR	ADT	DHV	% D	% T	ADTT
2018	390	55	54	2.5	30
2038	430	60	54	3.4	45

20 year ESAL for flexible pavement from 2018 to 2038 : 74000

40 year ESAL for flexible pavement from 2018 to 2058 : 156000

Design Speed : 35 mph

TEMPORARY BRIDGE PROFILE ALONG TEMP CL

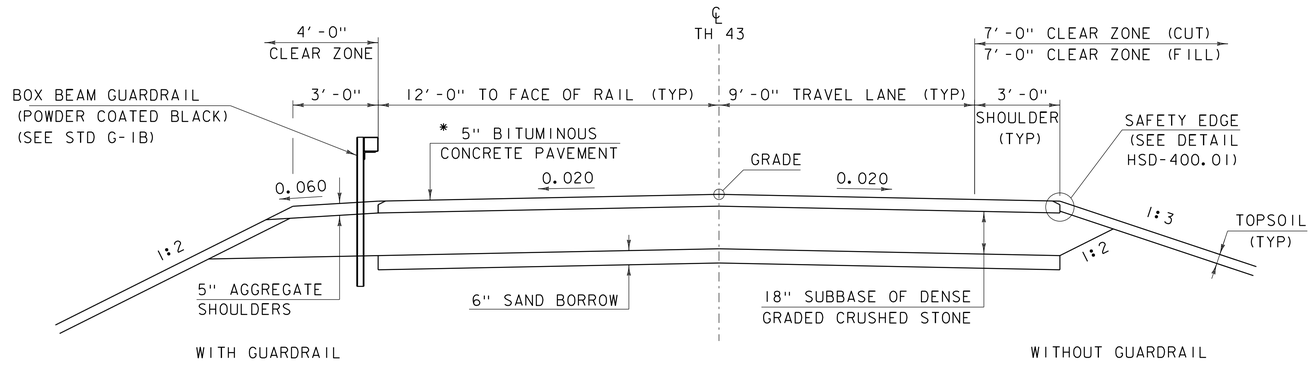


PROJECT NAME: **STOWE**

PROJECT NUMBER: **BO 1446(37)**

FILE NAME: **s12j660pi.xls**
PROJECT LEADER: **C. COTA**
DESIGNED BY: **C. BURRALL**
PRELIMINARY INFORMATION SHEET

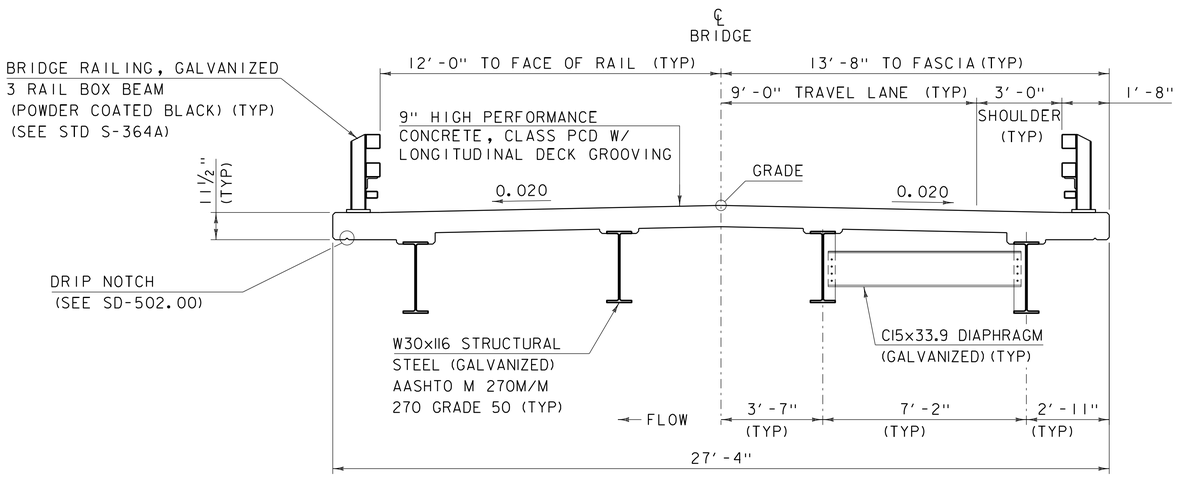
PLOT DATE: 3/4/2020
DRAWN BY: **C. BURRALL**
CHECKED BY: **M. LONGSTREET**
SHEET 2 OF 26



* 1 ½" BCP, TYPE IVS OVER
1 ½" BCP, TYPE IVS OVER
2" TYPE IIIS

TH 43 ROADWAY TYPICAL SECTION

SCALE ⅜" = 1'-0"



BRIDGE TYPICAL SECTION

SCALE ⅜" = 1'-0"

MATERIAL TOLERANCES

(IF USED ON PROJECT)

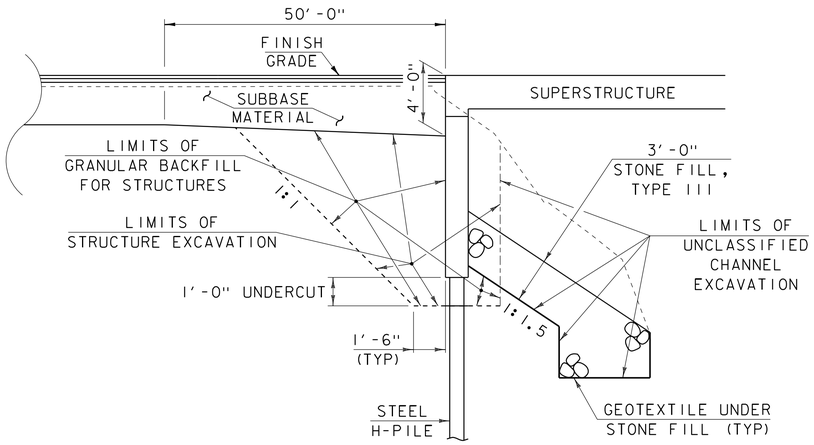
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

EMULSION SHALL BE APPLIED PER THE APPLICATION RATES IN TABLE 406.12A OF THE STANDARD SPECIFICATIONS.

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

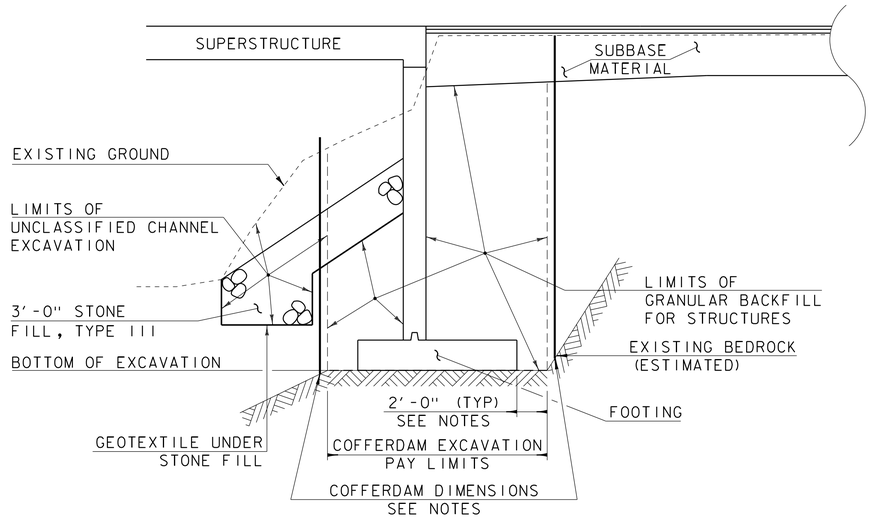
FILE NAME: s12j660typ2.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TYPICAL SECTIONS 1

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 3 OF 26



ABUTMENT #1 EARTHWORK TYPICAL SECTION

(NOT TO SCALE)



ABUTMENT #2 EARTHWORK TYPICAL SECTION

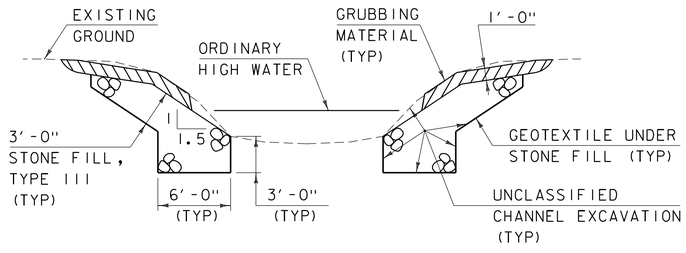
(NOT TO SCALE)

COFFERDAM NOTES:

1. COFFERDAM DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.

2. THE PAY LIMITS OF EITHER "COFFERDAM EXCAVATION, EARTH" AND "COFFERDAM EXCAVATION, ROCK" SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING AND FROM BOTTOM OF EXCAVATION UP TO THE EXISTING GROUND OR BOTTOM OF SUBBASE, WHICHEVER IS LOWER.

3. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION. NO MEASUREMENT AND PAYMENT WILL BE MADE FOR COFFERDAM EXCAVATION AND GRANULAR BACKFILL FOR STRUCTURES OUTSIDE THE PAY LIMITS DEFINED IN NOTE 2.



TYPICAL CHANNEL SECTION

(NOT TO SCALE)

1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

2. GRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED IN AREAS THAT WILL SEE CONCENTRATED FLOWS RESULTING FROM SURFACE WATER RUNOFF. GRUBBING MATERIAL MAY BE OMITTED IF LESS THAN 3 FEET IN WIDTH BENEATH A STRUCTURE. SEE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

3. STONE FILL SHALL BE OMITTED IN AREAS WHERE EXPOSED BEDROCK IS ENCOUNTERED IN THE FINAL CONSTRUCTION CONDITION

PROJECT NAME: STOWE	
PROJECT NUMBER: BO 1446(37)	
FILE NAME: sl2j660typ.dgn	PLOT DATE: 25-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: C. BURRALL
DESIGNED BY: C. BURRALL	CHECKED BY: M. LONGSTREET
TYPICAL SECTION 2	SHEET 4 OF 26

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660frm.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CONVENTIONAL SYMBOLOGY LEGEND

PLOT DATE: 25-MAR-2020
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET 5 OF 26

NETWORK CONTROL

HVCTRL #1
STOWE AZ MK
NORTH = 706904.3965
EAST = 1585797.3958
ELEV. = 672.550

GENERAL LOCATION, STOWE, VT

TO REACH FROM THE INTERSECTION OF VT. ROUTES 100 AND 108 IN STOWE GO SOUTH ALONG ROUTE 100 FOR 2.2 MI (3.5 KM) TO THE MARK ON THE LEFT IN THE NORTH END OF A LEDGE CUT. THE MARK IS 7.7 M (25.3 FT) SOUTHEAST OF AND ABOUT 2 M (6.6 FT) HIGHER THAN THE CENTERLINE OF ROUTE 100, 27.9 M (91.5 FT) NORTHEAST OF POLE NO. 58, 0.5 M (1.6 FT) SOUTHEAST OF THE FACE OF THE LEDGE CUT, 1.7 M (5.6 FT) SOUTH OF THE NORTH END OF THE LEDGE, 2.1 M (6.9 FT) NORTHEAST OF A METAL WITNESS POST.

HVCTRL #2
STOWE RIVER
NORTH = 708261.7724
EAST = 1585037.8666
ELEV. = 692.866

GENERAL LOCATION, STOWE, VT

TO REACH FROM THE INTERSECTION OF VT ROUTE 100 AND VT ROUTE 108, GO SOUTH ALONG VT ROUTE 100 FOR 2.5 MI (4.0 KM) TO THE INTERSECTION OF MOSCOW ROAD RIGHT. TURN RIGHT AND GO NORTHWEST ALONG MOSCOW ROAD FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF RIVER ROAD RIGHT. TURN RIGHT AND GO NORTHEAST ALONG RIVER ROAD FOR 0.2 MI (0.3 KM) TO THE SITE OF THE MARK ON THE RIGHT IN A SMALL FIELD. IT IS ABOUT 0.05 MI (0.1 KM) WEST-SOUTHWEST OF A POWER SUB STATION.

THE MARK IS SET 12 CM (5 INCHES) BELOW GROUND SURFACE IN THE TOP OF A 30 CM (12 INCH) DIAMETER CONCRETE MONUMENT.

IT IS 6.1 M (20.0 FT) SOUTH-SOUTHEAST OF AND ABOUT 1.5 M (4.9 FT) LOWER THAN THE CENTERLINE OF RIVER ROAD, 20.6 M (67.6 FT) EAST-NORTHEAST OF POLE NO 151/315/43 (WITH METER BOX), 27.2 M (89.2 FT) WEST-SOUTHWEST OF POLE NO 42, 29.5 M (96.8 FT) EAST OF THE EAST-NORTHEAST END OF A WOOD RAIL FENCE AND 0.6 M (2.0 FT) NORTH-NORTHWEST OF A FIBERGLASS WITNESS POST.

HVCTRL #17/90
NEBRASKA
NORTH = 709893.2357
EAST = 1575984.0593
ELEV. = 648.683

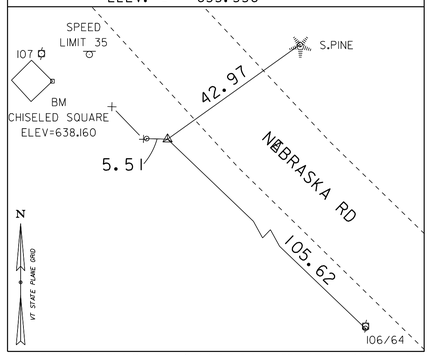
GENERAL LOCATION, STOWE, VT

TO REACH FROM THE INTERSECTION OF VT ROUTE 100 AND VT ROUTE 108 IN STOWE VILLAGE, GO SOUTH ALONG VT ROUTE 100 FOR 2.5 MI (4.0 KM) TO THE INTERSECTION OF MOSCOW ROAD RIGHT. TURN RIGHT AND GO NORTHWEST ALONG MOSCOW ROAD FOR 1.5 M (4.9 FT) TO THE INTERSECTION OF BARROWS ROAD RIGHT. CONTINUE NORTHWEST ALONG MOSCOW ROAD FOR 0.6 M (2.0 FT) TO THE INTERSECTION OF COTTON BROOK ROAD LEFT AND NEBRASKA VALLEY ROAD RIGHT. TURN RIGHT AND GO WEST ALONG NEBRASKA VALLEY ROAD FOR 0.5 M (1.6 FT) TO THE SITE OF THE MARK ON THE RIGHT SET IN THE WEST EDGE OF A FIELD.
THE MARK IS SET 10 CM (4 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT.
IT IS 6.6 M (21.7 FT) EAST OF AND ABOUT 0.1 M (0.3 FT) LOWER THAN THE CENTERLINE OF NEBRASKA VALLEY ROAD, 29.8 M (97.8 FT) NORTH-NORTHEAST OF AND ACROSS THE ROAD FROM POLE NO 14/70, 37.6 M (123.4 FT) SOUTHEAST OF AND ACROSS THE ROAD FROM POLE NO 71 WITH TRANSFORMER AND METER AND 0.25 M (0.8 FT) WEST OF A FIBERGLASS WITNESS POST.

LOCAL CONTROL

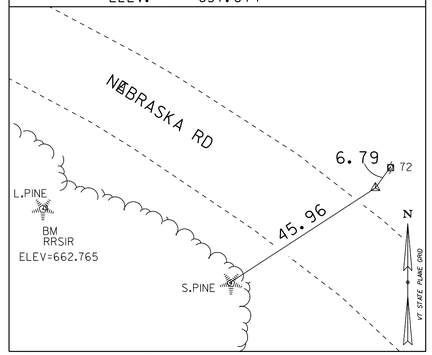
HVCTRL #16

NORTH = 709061.6878
EAST = 1576439.0442
ELEV. = 635.556



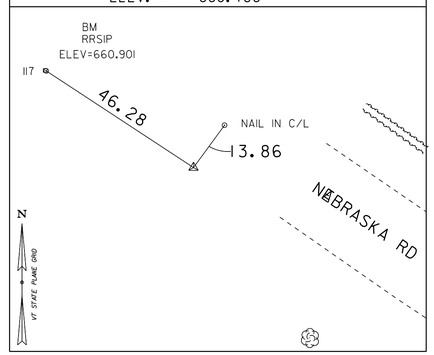
HVCTRL #18

NORTH = 710122.8461
EAST = 1575794.0833
ELEV. = 657.814



HVCTRL #19

NORTH = 710400.7388
EAST = 1575244.2270
ELEV. = 660.186



NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

* MAIN TRAVERSE COMPLETED ON 2/15/2017 BY C. CYR P.C. ...T. CATTANEO & K. KELLEY

ALIGNMENT TIES

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD83 (2011)
ADJUSTMENT COMPASS

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660tie.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TIE SHEET

PLOT DATE: 25-MAR-2020
DRAWN BY: C. CYR
CHECKED BY: G. HITCHCOCK
SHEET 6 OF 26

N

VT STATE PLANE GRID

BOOTHBAY SILT LOAM
0%-3% SLOPES
MODERATELY ERODIBLE
K= 0.24

PODUNK FINE SANDY LOAM
0%-3% SLOPES
MODERATELY ERODIBLE
K= 0.24

ONDAWA FINE SANDY LOAM
0%-3% SLOPES
MODERATELY ERODIBLE
K= 0.24

CROGHAN LOAMY FINE SAND
2%-8% SLOPES
MODERATELY ERODIBLE
K= 0.17

STEIR, PAT

CHMURA, ANDREW

ROBERTS, PETER A. & ELLEN C. LIVING TRUST

EXISTING R.O.W

TH-43
(NEBRASKA VALLEY ROAD)
DEAD END

TH-43
(NEBRASKA VALLEY ROAD)
TO TH-1 (MOSCOW ROAD)

STEIR, PAT

**STATE OF VERMONT
DEPT. OF FOREST PARK
AND RECREATION**

MILLER BROOK
FLOW

BOYER, MARK

**STATE OF VERMONT
DEPT. OF FOREST PARK
AND RECREATION**

BENCHMARK
RAILROAD SPIKE
IN ROOT
ELEV. = 662.77

SALMON VERY FINE SANDY LOAM
25%-50% SLOPES
HIGHLY ERODIBLE
K= 0.49

SALMON VERY FINE SANDY LOAM
8%-15% SLOPES
HIGHLY ERODIBLE
K= 0.49

BERKSHIRE FINE
SANDY LOAM
15%-25% SLOPES
MODERATELY ERODIBLE
K= 0.24

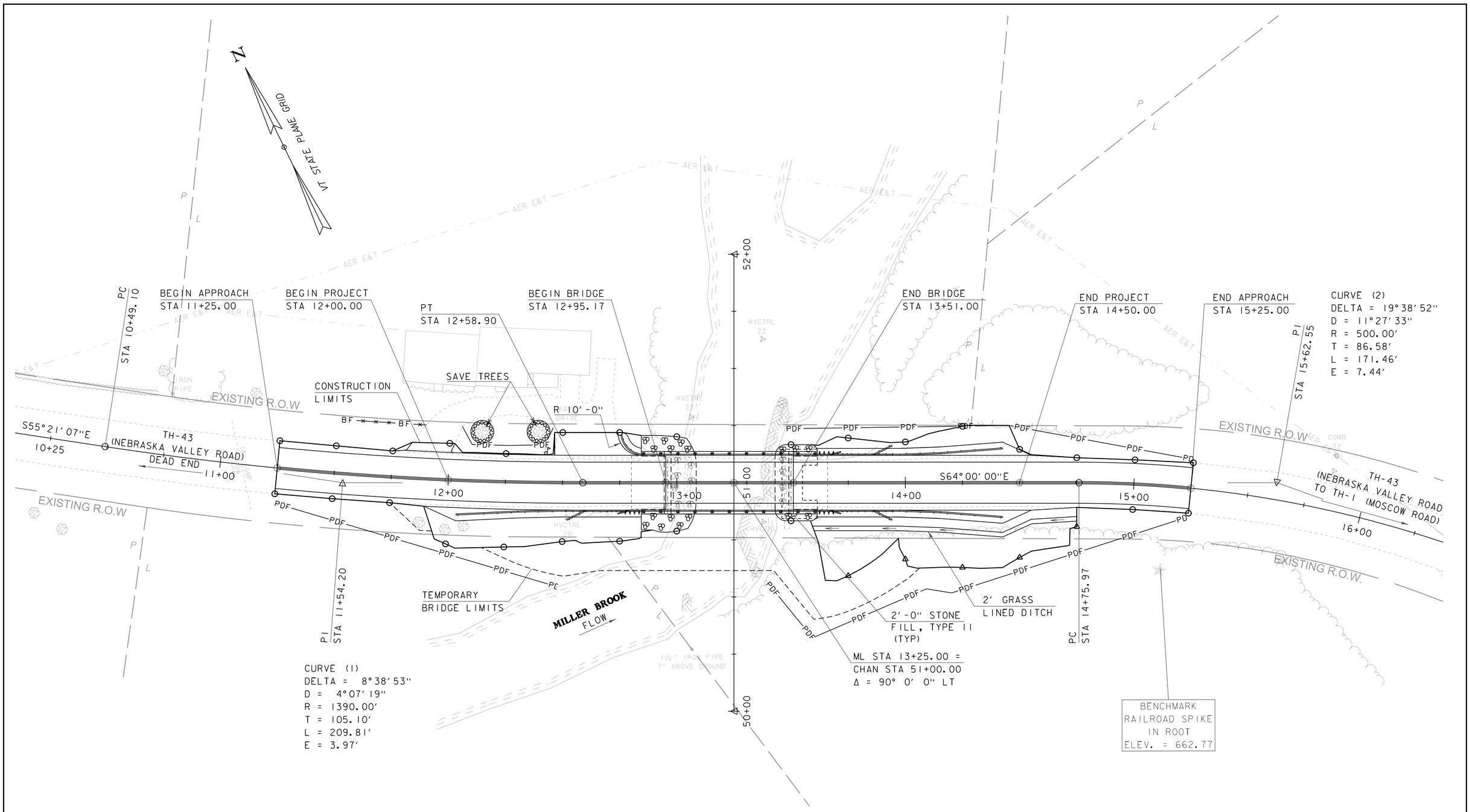
EXISTING BRIDGE INFORMATION
BUILT 1948
54' SINGLE SPAN ROLLED BEAM
CONCRETE CAST-IN-PLACE DECK

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660erobdr.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
EXISTING SITE CONDITIONS

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 7 OF 26



BRIDGE RAILING, GALVANIZED 3 RAIL

BOX BEAM (POWDER COATED BLACK)

STA 12+83.50 RT - STA 13+62.50 RT
STA 12+85.50 LT - STA 13+62.50 LT

BOX BEAM GUARDRAIL (POWDER COATED BLACK)

STA 12+03.93 RT - STA 12+51.56 RT
STA 12+75.56 LT - STA 12+85.50 LT
STA 13+94.50 LT - STA 14+42.58 LT
STA 13+94.50 RT - STA 14+42.58 RT

GUARDRAIL APPROACH SECTION, GALV 3

RAIL BOX BEAM (POWDER COATED BLACK)

STA 12+51.56 RT - STA 12+83.50 RT
STA 13+62.50 LT - STA 13+94.50 LT
STA 13+62.50 RT - STA 13+94.50 RT

CONSTRUCT GRAVEL APRON

STA 11+77.86 LT - STA 12+01.55 LT
STA 12+46.46 LT - STA 12+84.26 LT

REMOVAL AND DISPOSAL OF GUARDRAIL

STA 12+58.59 RT - STA 12+96.11 RT
STA 12+84.47 LT - STA 12+97.02 LT
STA 13+49.22 LT - STA 13+87.71 LT
STA 13+49.23 RT - STA 13+63.04 RT

REMOVE & RESET MAILBOX, SINGLE SUPPORT

STA 12+42.56 LT

4 INCH YELLOW LINE

STA 11+25.00 CL - STA 15+25.00 CL (DOUBLE)

DELINEATOR WITH STEEL POST

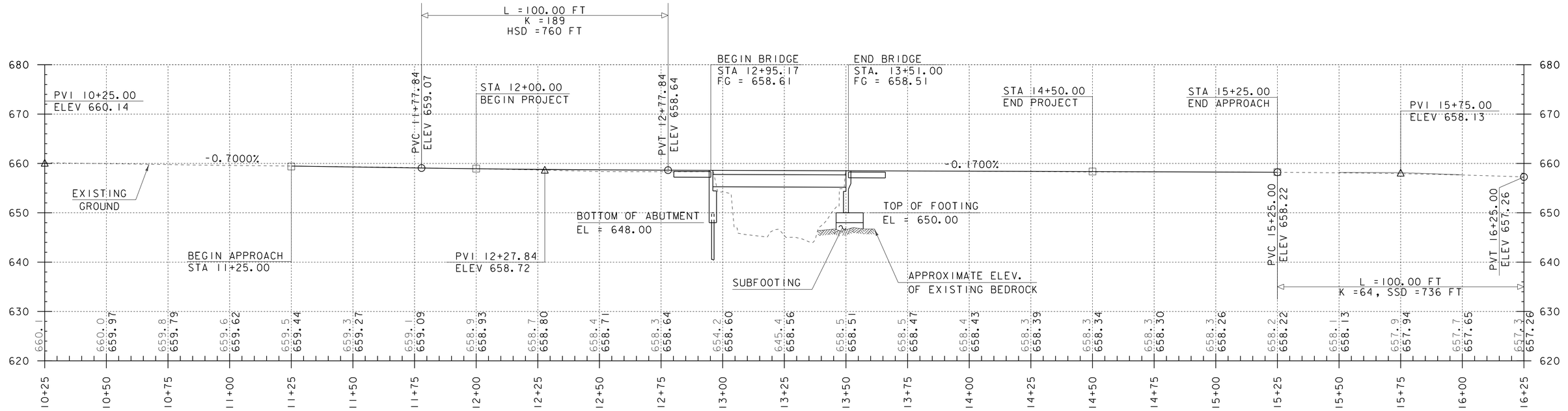
STA 12+58.50 RT (BLUE)
STA 12+85.50 LT (GREEN)
STA 13+87.50 LT (BLUE)
STA 13+87.50 RT (GREEN)

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

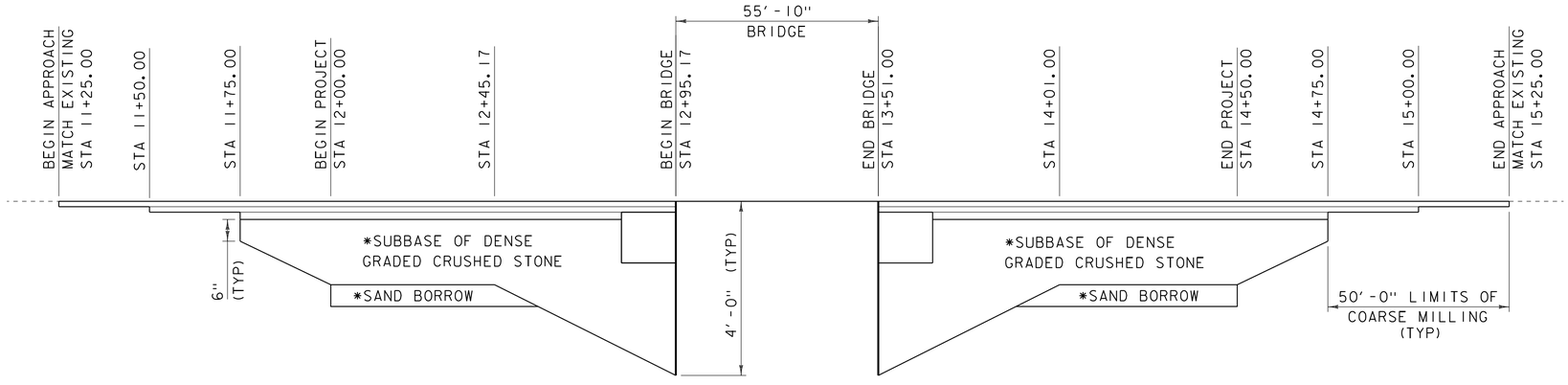
FILE NAME: sl2j660bdr.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
LAYOUT

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL



TH 43 PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



*SEE TH 43 ROADWAY TYPICAL SECTION FOR PAVEMENT AND SUBBASE MATERIAL DESIGN INFORMATION.

TH 43 MATERIAL TRANSITION DETAIL

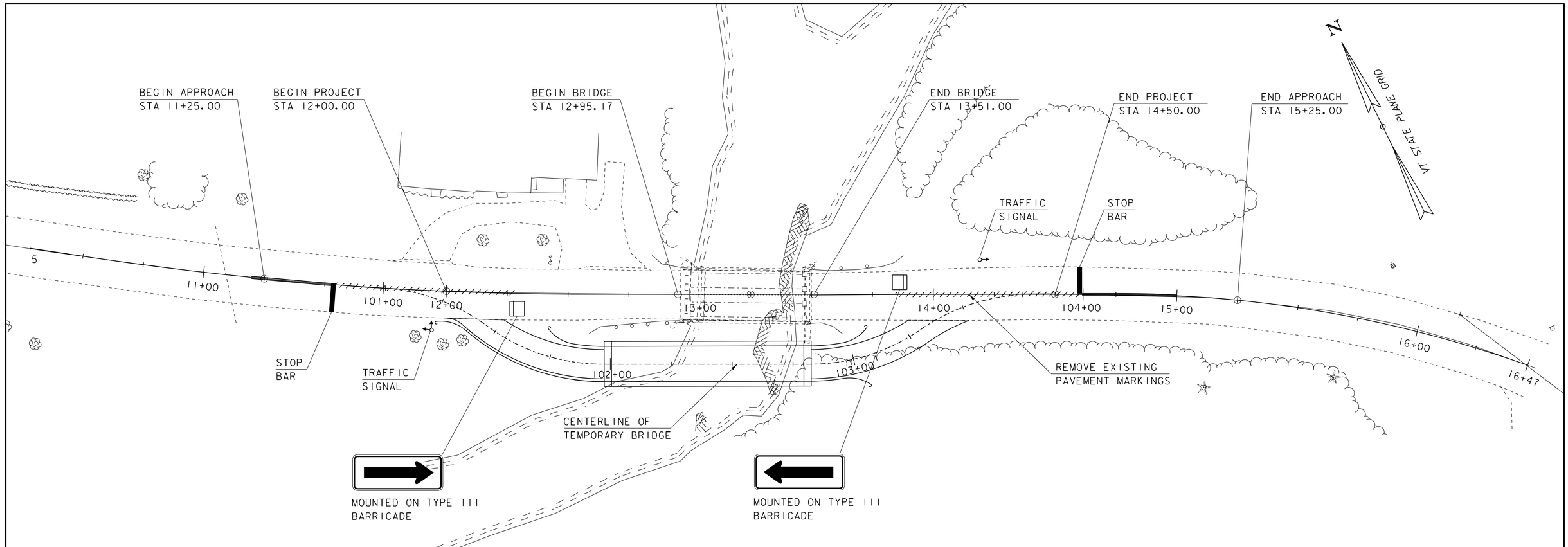
HORIZONTAL SCALE: 1" = 20'-0"
NO VERTICAL SCALE

NOTE:
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG ℄
GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG ℄

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

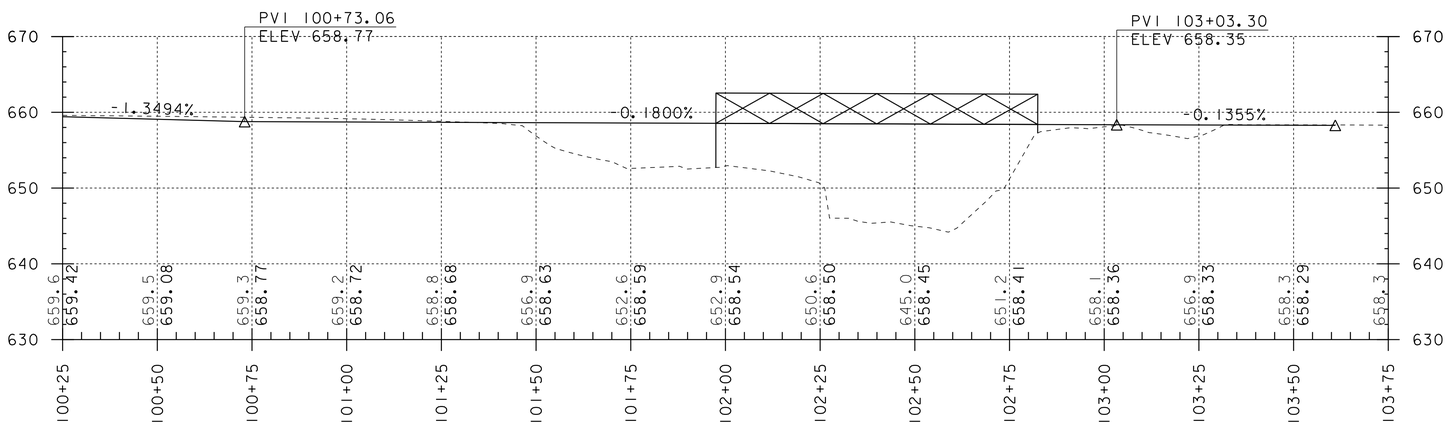
FILE NAME: sl2j660pro.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 PROFILE & MATERIAL TRANSITION

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 9 OF 26



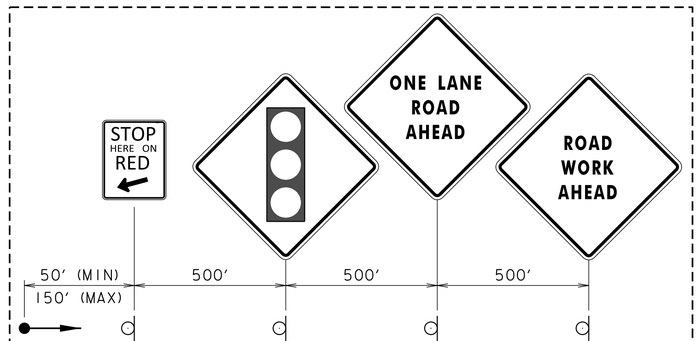
TEMPORARY BRIDGE PLAN

SCALE: 1" = 20'-0"



TEMPORARY BRIDGE PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



APPROACH SIGNS (TYP)

(NOT TO SCALE)

PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(37)
FILE NAME: sl2j660temp.dgn	PLOT DATE: 27-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: C. BURRALL
TEMPORARY BRIDGE PLAN & PROFILE	SHEET 10 OF 26

SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊗	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR			
blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

MUCK - Soft organic soil (containing > 10% organic material.

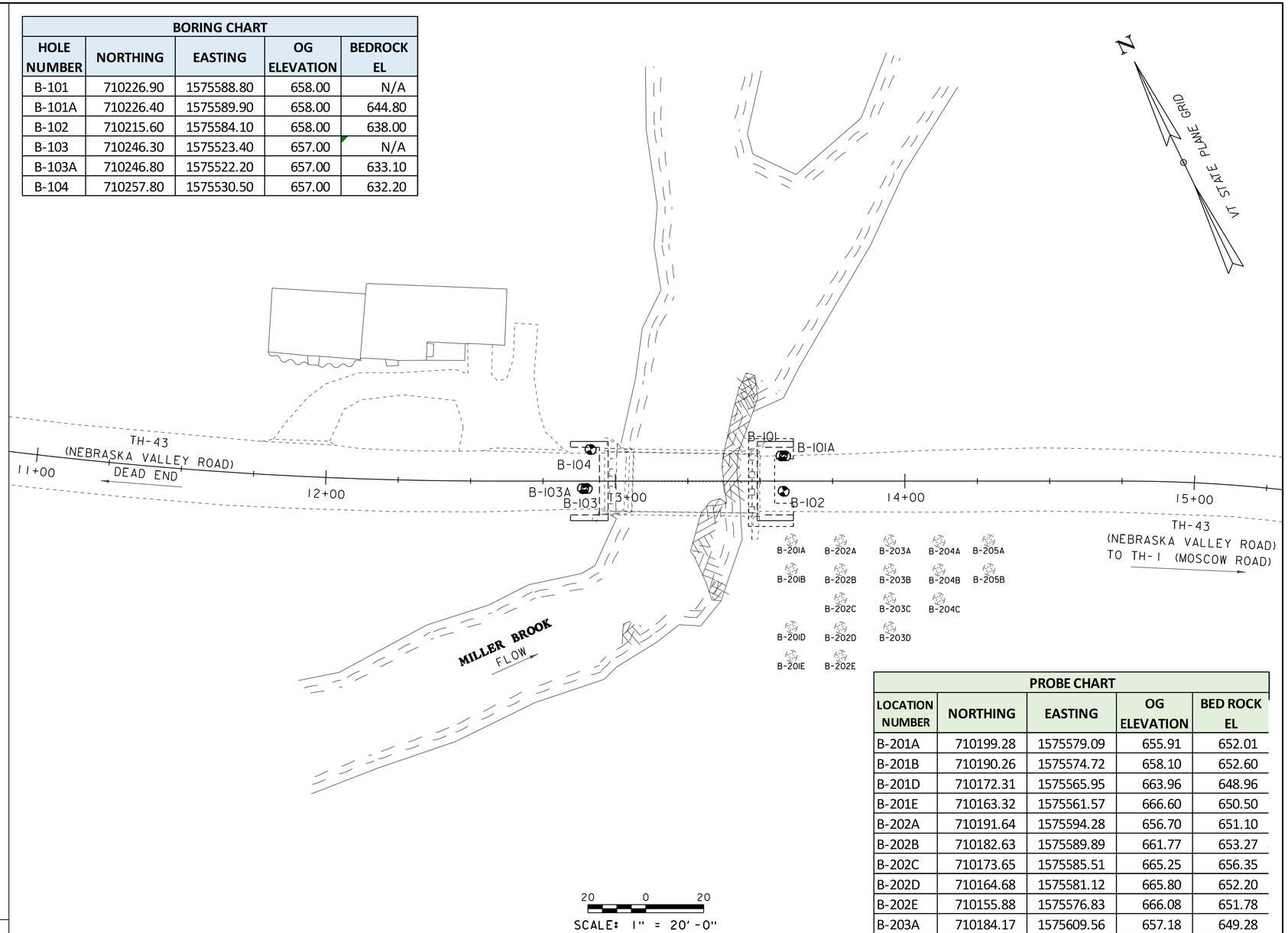
MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.

BORING CHART				
HOLE NUMBER	NORTHING	EASTING	OG ELEVATION	BEDROCK EL
B-101	710226.90	1575588.80	658.00	N/A
B-101A	710226.40	1575589.90	658.00	644.80
B-102	710215.60	1575584.10	658.00	638.00
B-103	710246.30	1575523.40	657.00	N/A
B-103A	710246.80	1575522.20	657.00	633.10
B-104	710257.80	1575530.50	657.00	632.20



PROBE CHART				
LOCATION NUMBER	NORTHING	EASTING	OG ELEVATION	BED ROCK EL
B-201A	710199.28	1575579.09	655.91	652.01
B-201B	710190.26	1575574.72	658.10	652.60
B-201D	710172.31	1575565.95	663.96	648.96
B-201E	710163.32	1575561.57	666.60	650.50
B-202A	710191.64	1575594.28	656.70	651.10
B-202B	710182.63	1575589.89	661.77	653.27
B-202C	710173.65	1575585.51	665.25	656.35
B-202D	710164.68	1575581.12	665.80	652.20
B-202E	710155.88	1575576.83	666.08	651.78
B-203A	710184.17	1575609.56	657.18	649.28
B-203B	710175.18	1575605.17	663.91	651.71
B-203C	710166.21	1575600.78	665.05	654.55
B-203D	710157.23	1575596.39	665.20	656.50
B-204A	710176.59	1575624.78	658.79	648.89
B-204B	710167.68	1575620.41	664.39	649.79
B-204C	710158.69	1575616.02	664.51	652.91
B-205A	710169.29	1575640.30	659.18	653.98
B-205B	710160.25	1575636.00	664.09	656.49

GENERAL NOTES

1. The subsurface explorations shown herein were made between 12/03/2014 and 02/11/2015 by the Agency.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446 (37)

FILE NAME: si2j660bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING INFORMATION SHEET

PLOT DATE: 25-MAR-2020
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET II OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Stowe
BO 1446(37)
Nebraska Valley Road Bridge 51

Boring No.: B-101
Page No.: 1 of 1
Pin No.: 12J660
Checked By: SPM

Boring Crew: Brochu, Gonyaw, Emerson, Judkins
Date Started: 8/27/18 Date Finished: 8/27/18
VTSPG NAD83: N 710226.90 ft E 1575588.80 ft
Station: 13+60 Offset: 12 LT
Ground Elevation: 658.0 ft

	Casing	Sampler
Type:	WASH BORE	SS
I.D.:	4 in	1.5 in
Hammer Wt:	140 lb.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
		Not recorded.

ABUTMENT 2
TOP OF FOOTING EL. 650.00

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Asphalt, 0.0 ft – 0.75 ft					
		Field Class:, SlSaGr, brn, Moist, Rec. = 0.9 ft	5-13->50 (>63)				
2.5		Hole stopped @ 3.5 ft					
5.0		Remarks: Refusal in concrete encountered 3.5 ft bgs. Offset hole to B-101A.					
7.5							
10.0							
12.5							
15.0							
17.5							
20.0							
22.5							

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG STOWE BO 1446(37).GPJ VERMONT AOT.GDT 12/18/18

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Stowe
BO 1446(37)
Nebraska Valley Road Bridge 51

Boring No.: B-101A
Page No.: 1 of 1
Pin No.: 12J660
Checked By: SPM

Boring Crew: Brochu, Judkins, Gonyaw
Date Started: 8/27/18 Date Finished: 8/27/18
VTSPG NAD83: N 710226.40 ft E 1575589.90 ft
Station: 13+61 Offset: 12 LT
Ground Elevation: 658.0 ft

	Casing	Sampler
Type:	WASH BORE	SS
I.D.:	4 in	1.5 in
Hammer Wt:	140 lb.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
08/27/18	4.0	WT During drilling.

ABUTMENT 2
TOP OF FOOTING EL. 650.00

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Asphalt, 0.0 ft – 0.6 ft					
		Field Class:, GrSa, brn, Moist, Rec. = 0.6 ft	8-4-5-17 (9)				
2.5							
5.0		Rec. = 0.0 ft, 5.0 ft – 7.0 ft	3-3-3-3 (6)				
7.5							
10.0		Field Class:, SlSa with broken rock, gray-brn, Moist, Rec. = 0.7 ft	1-2->100 (>100)				
12.5		Rollerbit 2 ft to confirm bedrock, 11.3 ft – 13.2 ft					
		Hole stopped @ 13.2 ft					
15.0							
17.5							
20.0							
22.5							

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG STOWE BO 1446(37).GPJ VERMONT AOT.GDT 12/18/18

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Stowe
BO 1446(37)
Nebraska Valley Road Bridge 51

Boring No.: B-102
Page No.: 1 of 1
Pin No.: 12J660
Checked By: SPM

Boring Crew: Gonyaw, Judkins, Brochu
Date Started: 8/29/18 Date Finished: 8/30/18
VTSPG NAD83: N 710215.60 ft E 1575584.10 ft
Station: 13+60 Offset: 2 RT
Ground Elevation: 658.0 ft

	Casing	Sampler
Type:	WASH BORE	SS
I.D.:	4 in	1.5 in
Hammer Wt:	140 lb.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
08/30/18	3.5	WT During drilling.

ABUTMENT 2
TOP OF FOOTING EL. 650.00

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Top Seg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Asphalt, 0.0 ft – 0.8 ft								
		Field Class:, SaGr w/ broken rock fragments, brn, Moist, Rec. = 1.4 ft				11-11-40->50 (51)				
2.5										
5.0		Field Class:, SlGrSa, brn, Moist, Rec. = 1.1 ft				5-3-3-4 (6)				
7.5										
10.0		Field Note:, Refusal, Rec. = 0.0 ft 10.01 ft – 15.0 ft, Gray and white, Sulfidic and carbonaceous biotite-muscovite-plagioclase-quartz SCHIST, rust staining along open foliation and joint planes. Moderately hard, Slightly weathered, Fair rock, NX, RMR=46	R-1 (30)	92 (57)	4 5 5 5 5	>50 (>100)				
12.5										
15.0		15.0 ft – 20.0 ft, Gray and white, Sulfidic and carbonaceous biotite-muscovite-plagioclase-quartz SCHIST, foliation planes and joints are tight and unweathered. Moderately hard, Unweathered, Good rock, NX, RMR=66	R-2 (30-40)	98 (98)	5 6 8 7 7					
17.5										
20.0		Hole stopped @ 20.0 ft								
22.5										

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG STOWE BO 1446(37).GPJ VERMONT AOT.GDT 12/18/18

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: s12j660bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING LOGS 1

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 12 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Stowe
BO 1446(37)
Nebraska Valley Road Bridge 51

Boring No.: B-103
Page No.: 1 of 1
Pin No.: 12j660
Checked By: SPM

Boring Crew: Brochu, Emerson, Judkins
Date Started: 8/28/18 Date Finished: 8/28/18
VTSPG NAD83: N 710246.30 ft E 1575523.40 ft
Station: 12+92 Offset: 2 RT
Ground Elevation: 657.0 ft

	Casing	Sampler
Type:	WASH BORE	SS
I.D.:	4 in	1.5 in
Hammer Wt:	140 lb.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
		Not Recorded.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft – 0.75 ft					
2.5		Field Class:, SaGr, brn, Moist, Rec. = 1.4 ft	11-14-16-16 (30)				
5.0		Field Class:, SaGr w/ broken rock, brn, Moist, Rec. = 0.5 ft	3-2-2-1 (4)				
10.0		Field Class:, SaGr w/ broken rock, brn, Moist, Rec. = 0.9 ft	6-8-15-20 (23)				
15.0		Field Class:, SaGr, brn, Moist, Rec. = 1.0 ft	9-12-12-10 (24)				
20.0		Hole stopped @ 20.0 ft					

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

ABUTMENT I
BOTTOM OF PILE CAP EL. 649.00
ESTIMATED PILE TIP EL. 635.00
STOWE BO 1446(37) VERMONT AOT.GDT 12/19/18
BORING LOG

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Stowe
BO 1446(37)
Nebraska Valley Road Bridge 51

Boring No.: B-103A
Page No.: 1 of 1
Pin No.: 12j660
Checked By: SPM

Boring Crew: Brochu, Gonyaw, Emerson
Date Started: 11/26/18 Date Finished: 11/26/18
VTSPG NAD83: N 710246.80 ft E 1575522.20 ft
Station: 12+91 Offset: 2 RT
Ground Elevation: 657.0 ft

	Casing	Sampler
Type:	WASH BORE	SS
I.D.:	4 in	1.5 in
Hammer Wt:	140 lb.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
11/26/18	10.4	WT During drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Apshalt, 0.0 ft – 0.7 ft								
		Field Note:, Blind bore to bedrock.								
2.5										
5.0										
7.5										
10.0										
12.5										
15.0										
17.5										
20.0		18.9 ft – 23.9 ft, Silvery-gray to white, Sulfidic, muscovite-plagioclase-quartz SCHIST, Open foliation planes and joints are slightly rusty. Core is pitted/vuggy from 21.9 ft bgs to 22.4 ft bgs. Moderately hard, Very slightly weathered, Fair rock, NX	R-1 (30-40)	88 (68)	3 3 2 2 3					
22.5		Hole stopped @ 23.9 ft								

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

ABUTMENT I
BOTTOM OF PILE CAP EL. 649.00
ESTIMATED PILE TIP EL. 635.00
STOWE BO 1446(37) VERMONT AOT.GDT 12/19/18
BORING LOG

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Stowe
BO 1446(37)
Nebraska Valley Road Bridge 51

Boring No.: B-104
Page No.: 1 of 2
Pin No.: 12j660
Checked By: SPM

Boring Crew: Judkins, Emerson, Whitlock
Date Started: 9/24/18 Date Finished: 9/25/18
VTSPG NAD83: N 710257.80 ft E 1575530.50 ft
Station: 12+94 Offset: 13 LT
Ground Elevation: 657.0 ft

	Casing	Sampler
Type:	WASH BORE	SS
I.D.:	4 in	1.5 in
Hammer Wt:	140 lb.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
09/25/18	11.8	WT During Drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft – 0.38 ft								
2.5		Field Class:, GrSa, brn, Moist, Rec. = 0.9 ft				10-9-9-10 (18)				
5.0		Field Class:, SiSa w/ wood, brn, Moist, Rec. = 0.9 ft				4-2-5-5 (7)				
10.0		Field Class:, GrSa, gry, Moist, Rec. = 1.2 ft				18-16-26-21 (42)				
15.0		Field Class:, SiSa w/ broken rock, brn, Moist, Rec. = 0.7 ft				4-6-11-19 (17)				
17.5										
20.0		19.8 ft – 24.8 ft, Silver-gray to white, Sulfidic and carbonaceuos biotite-muscovite-plagioclase-quartz SCHIST, rust along open foliation planes. From 23.6 ft to 24.2 ft rust staining is more pronounced. Moderately hard, Slightly to moderately weathered, Fair rock, NX, RMR=58	R-1 (40-50)	100 (76)	2 3 3 3 2					
22.5										

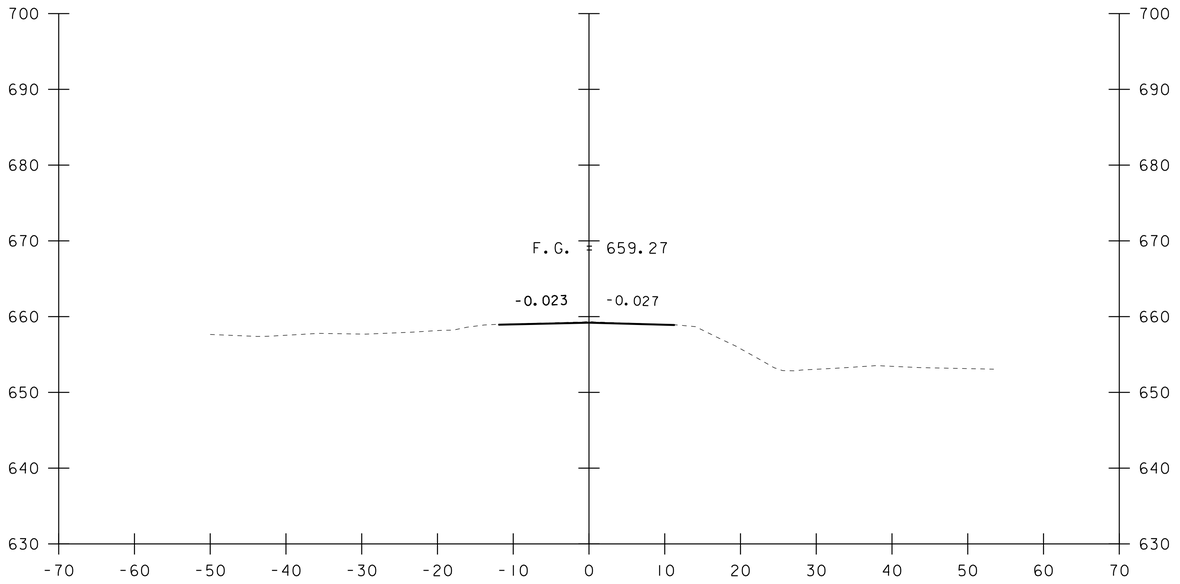
Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

ABUTMENT I
BOTTOM OF PILE CAP EL. 649.00
ESTIMATED PILE TIP EL. 635.00
STOWE BO 1446(37) VERMONT AOT.GDT 12/19/18
BORING LOG

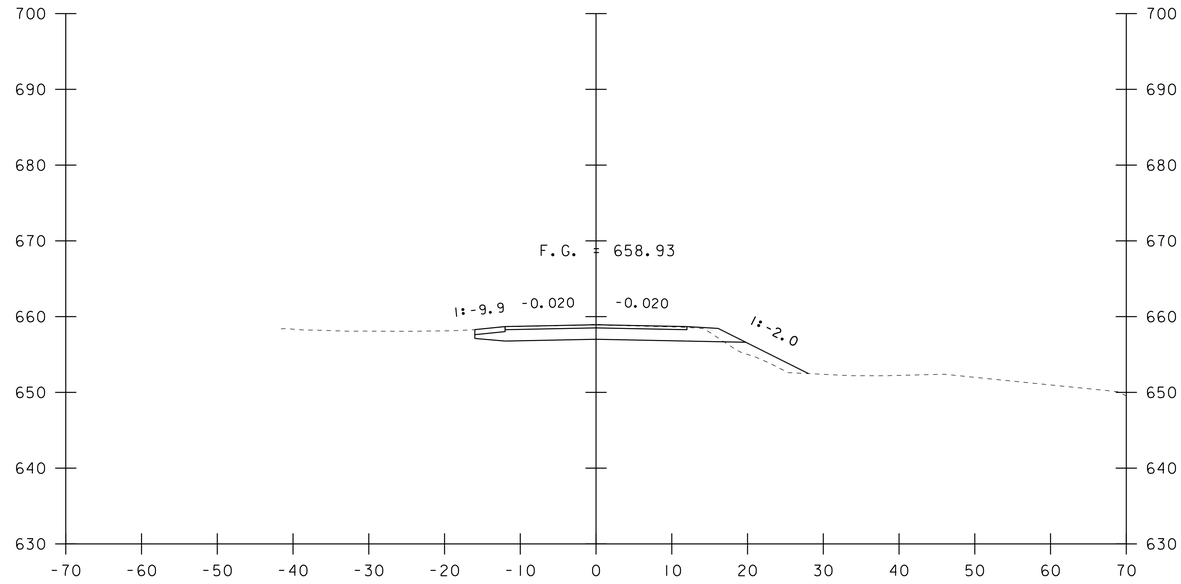
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: s12j660bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING LOGS 2

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 13 OF 26

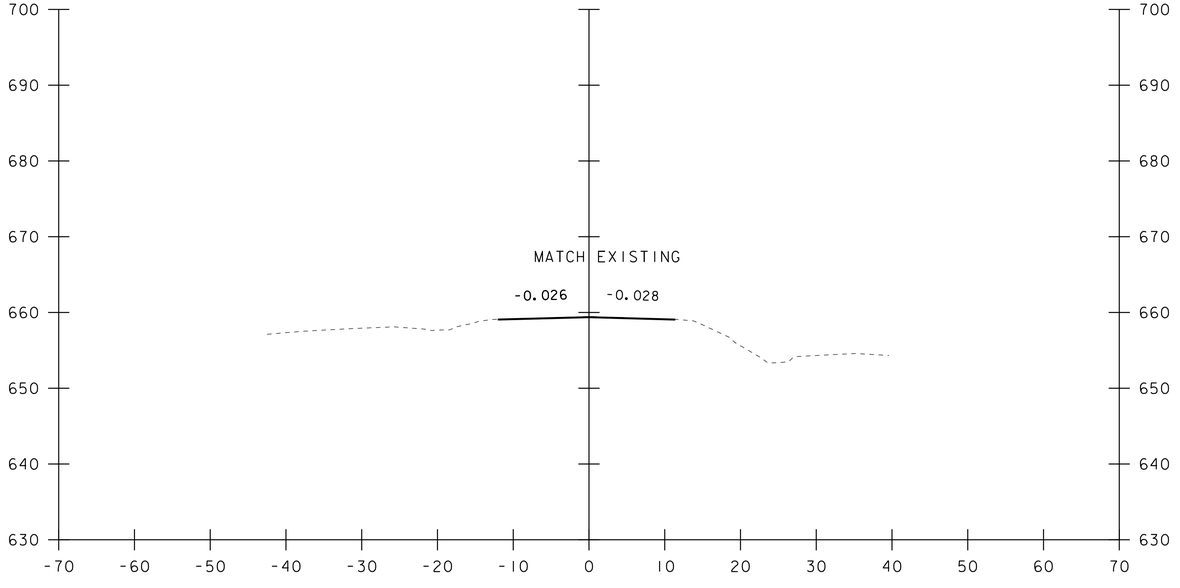


11+50



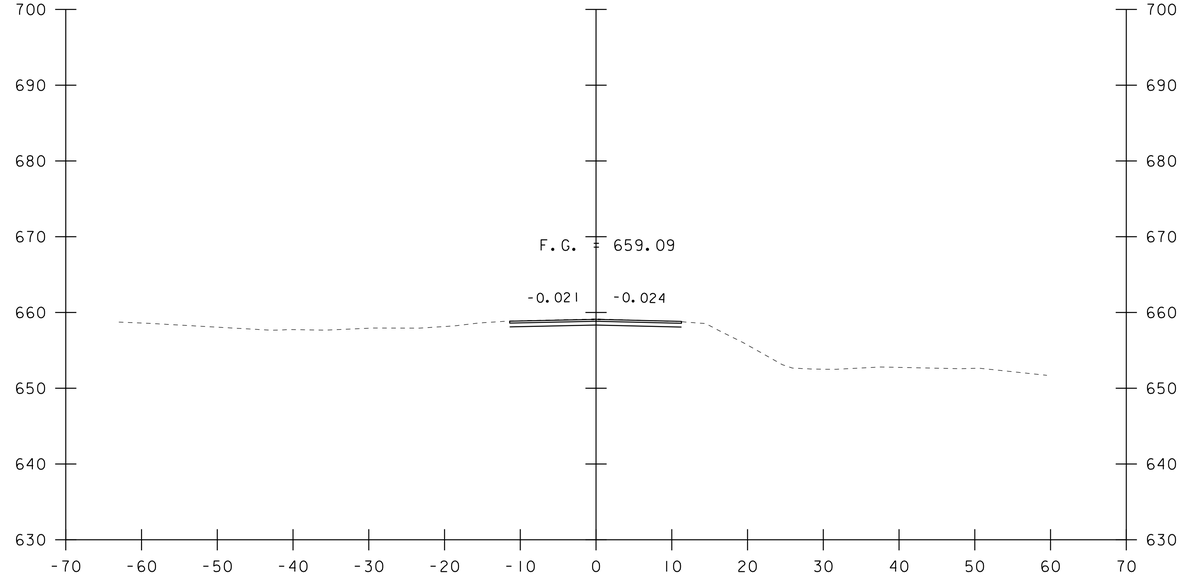
STA 12+00.00
BEGIN PROJECT

12+00



11+25

STA 11+25.00
BEGIN APPROACH
MATCH EXISTING



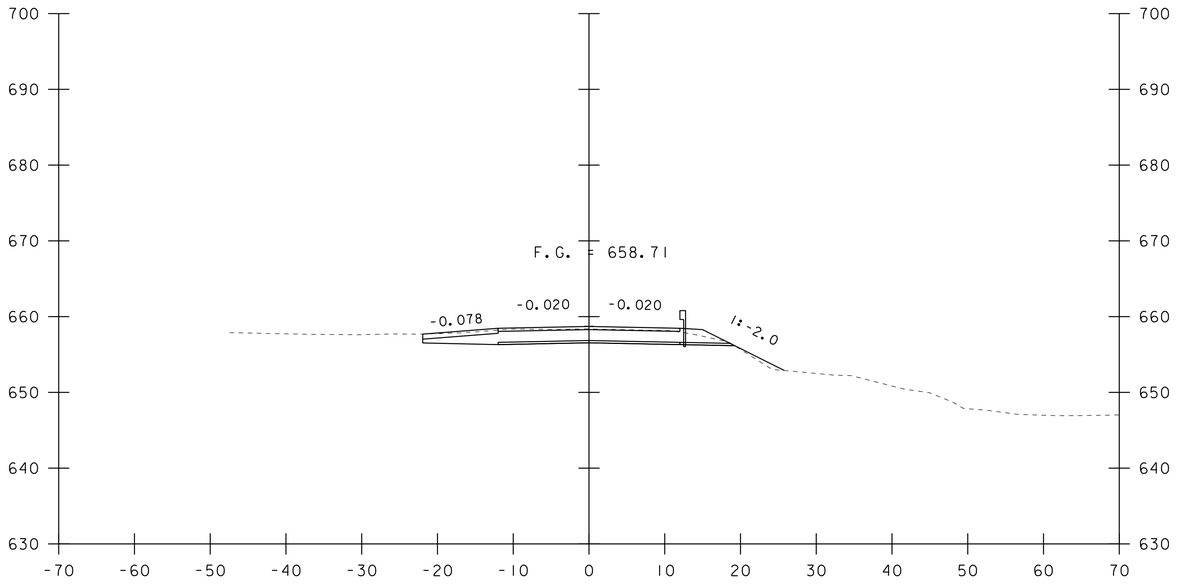
11+75

STA. 11+25 TO STA. 12+00

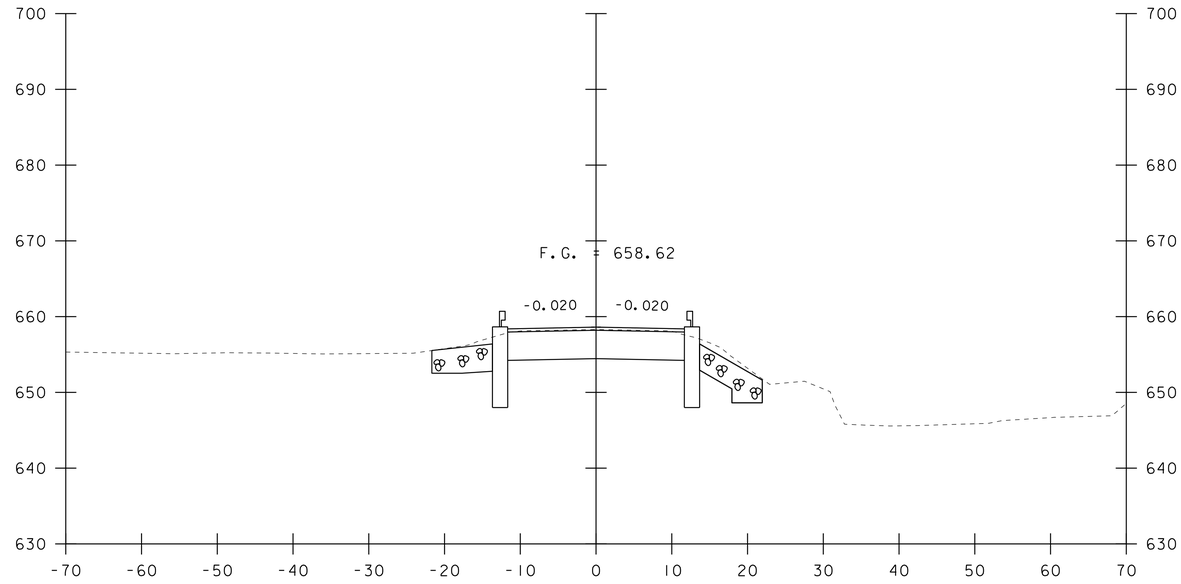
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 1

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 14 OF 26

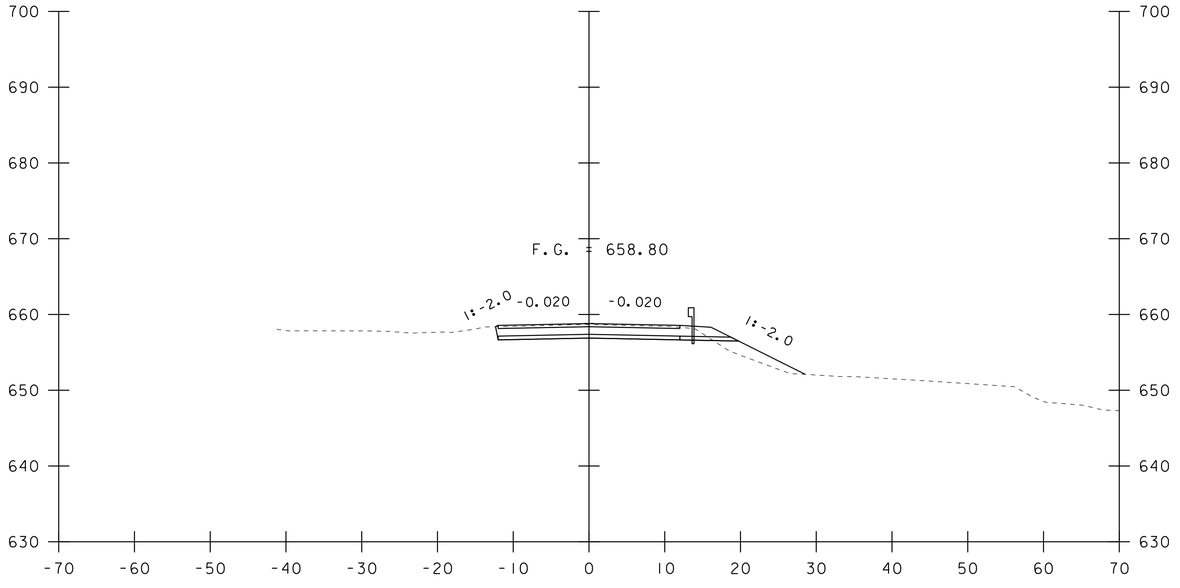


12+50

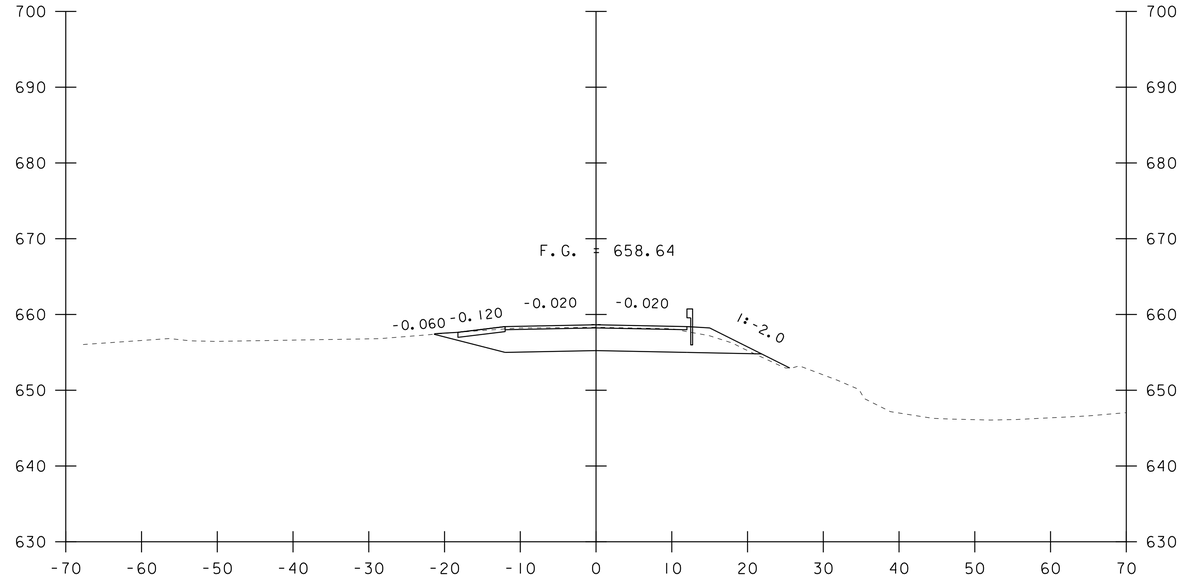


STA 12+95.17
BEGIN BRIDGE

12+90



12+25



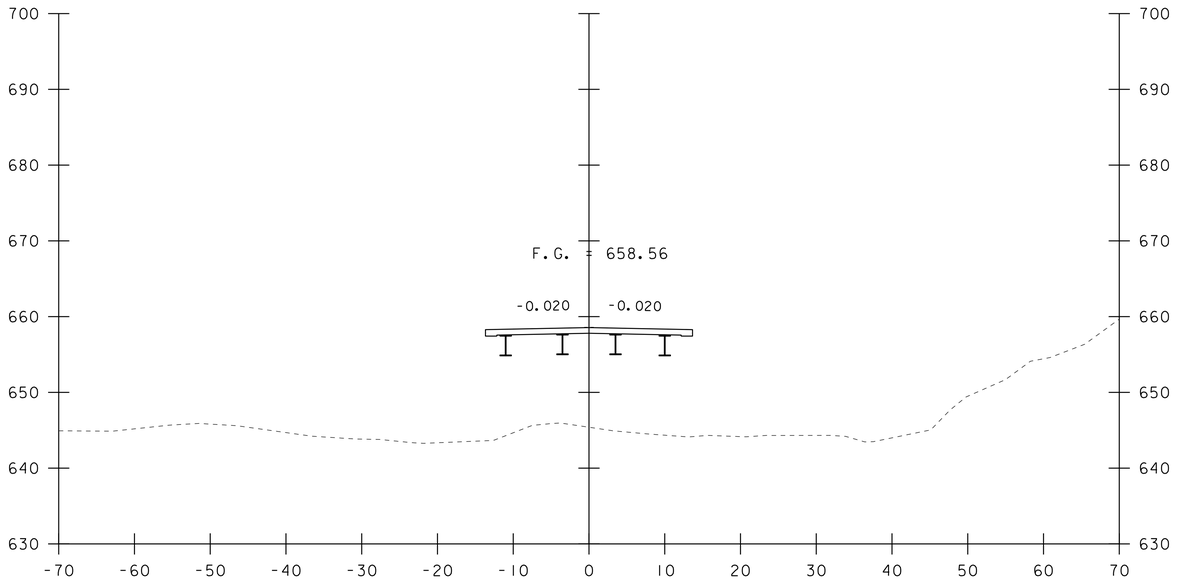
12+75

STA. 12+25 TO STA. 12+90

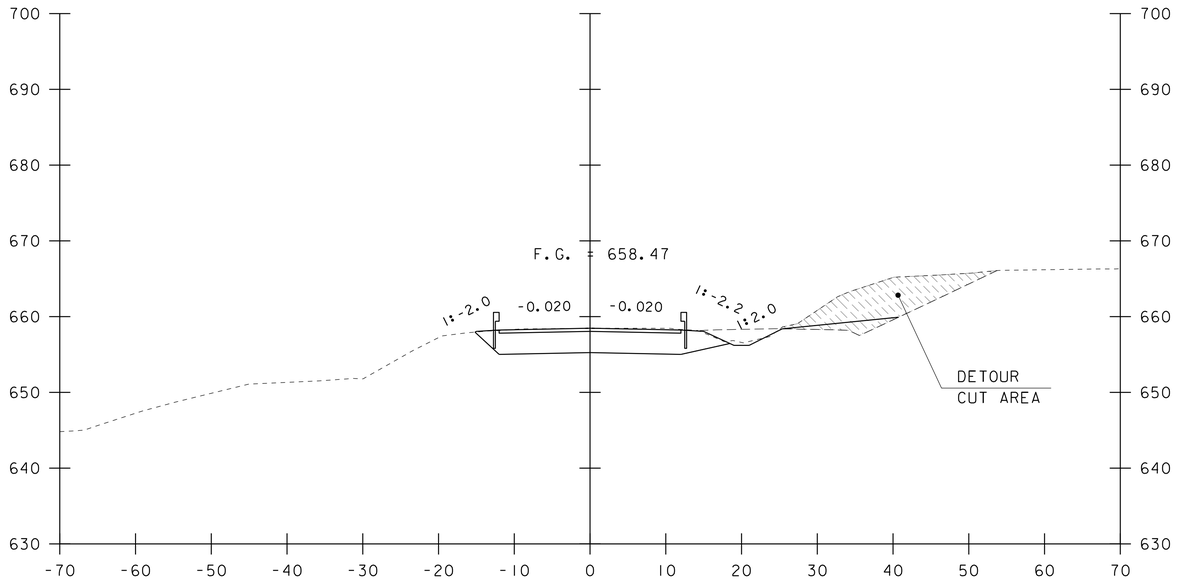
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 2

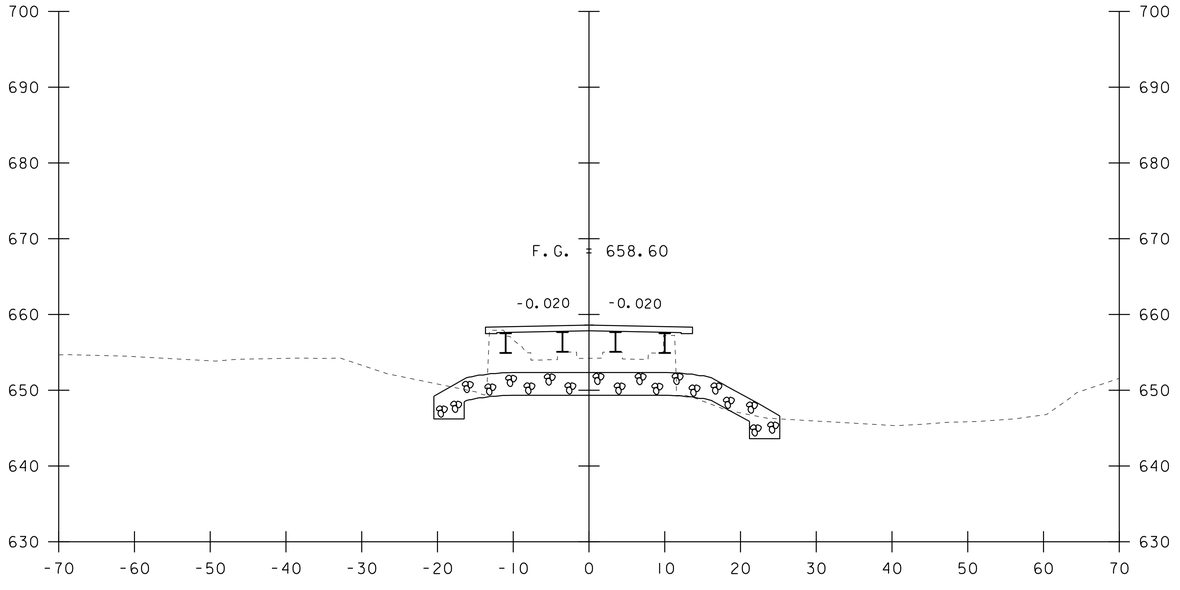
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 15 OF 26



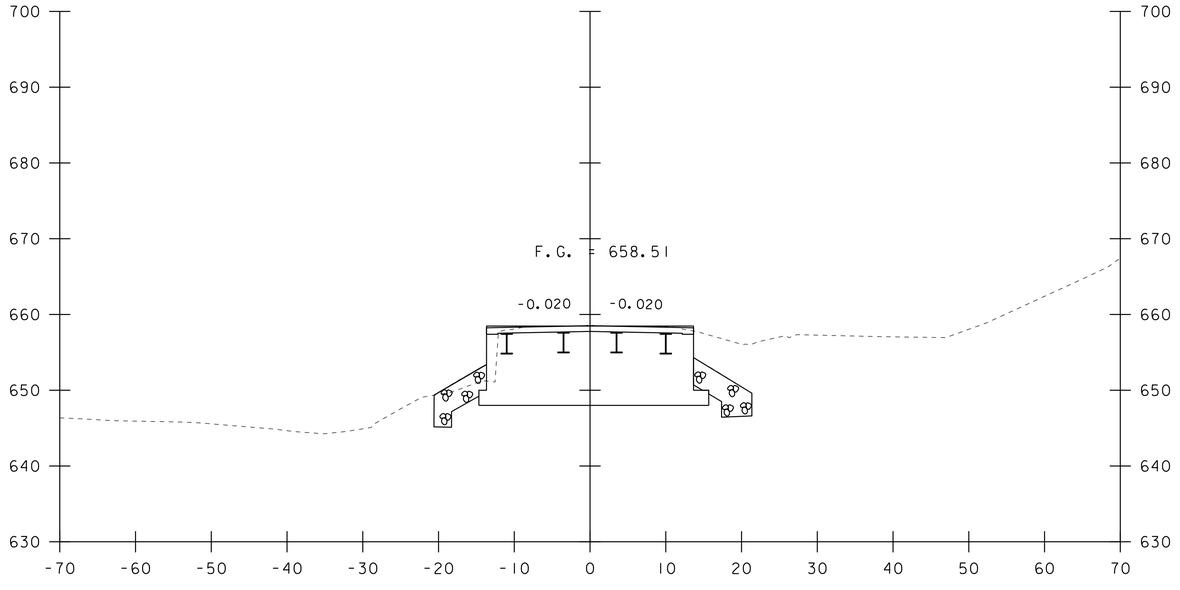
13+25



13+75



13+00



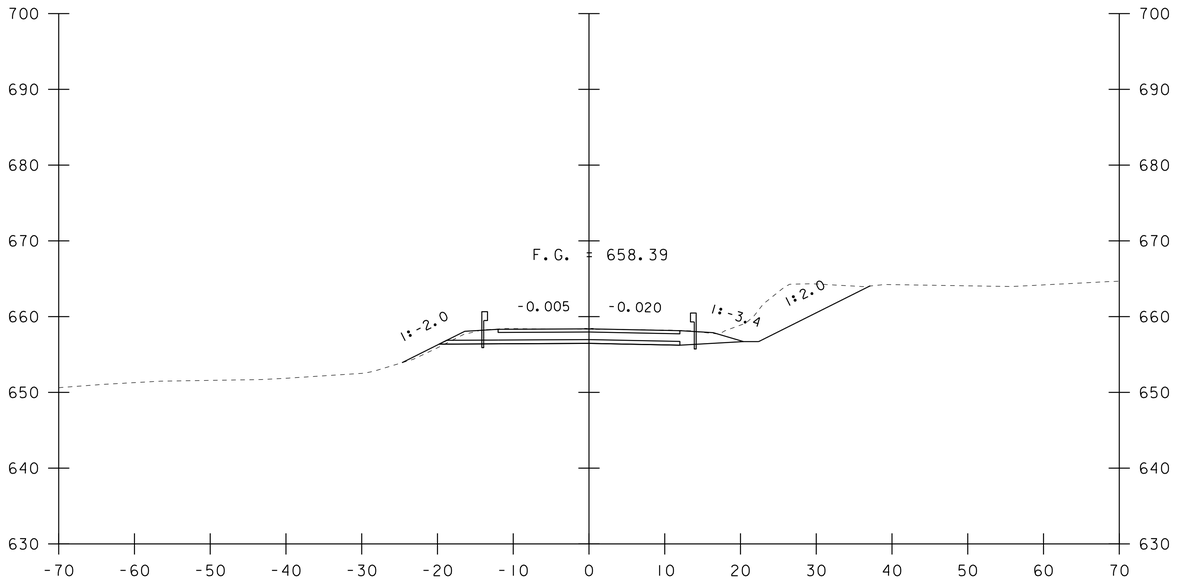
13+50

STA 13+51.00
END BRIDGE

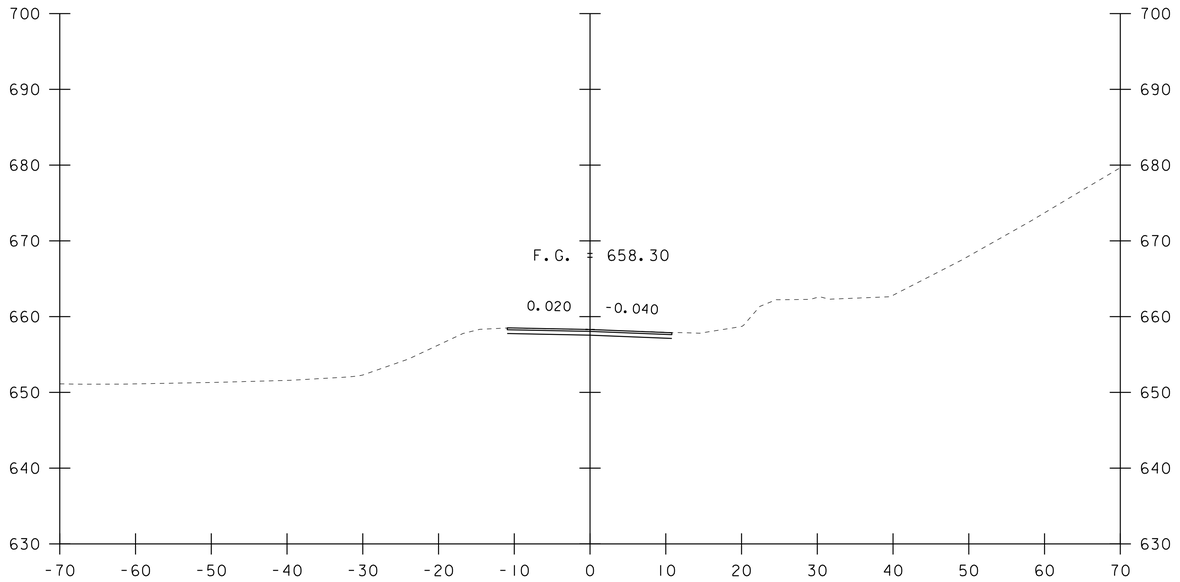
PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(37)

FILE NAME: sl2j660xs.dgn	PLOT DATE: 25-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: M. LONGSTREET
DESIGNED BY: C. BURRALL	CHECKED BY: C. BURRALL
TH 43 CROSS SECTIONS 3	SHEET 16 OF 26

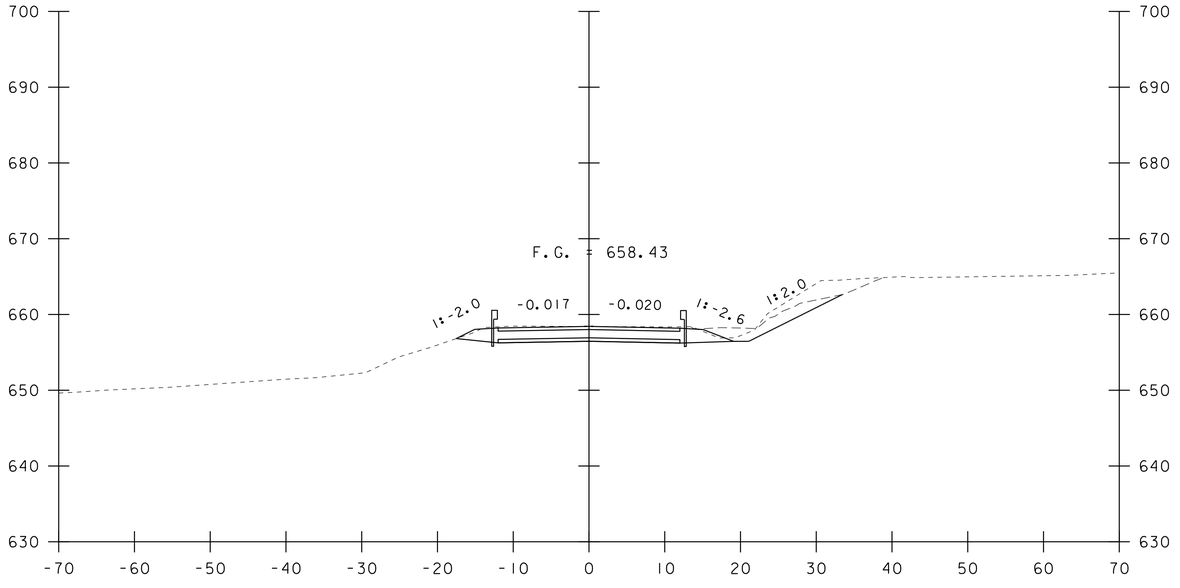
STA. 13+00 TO STA. 13+75



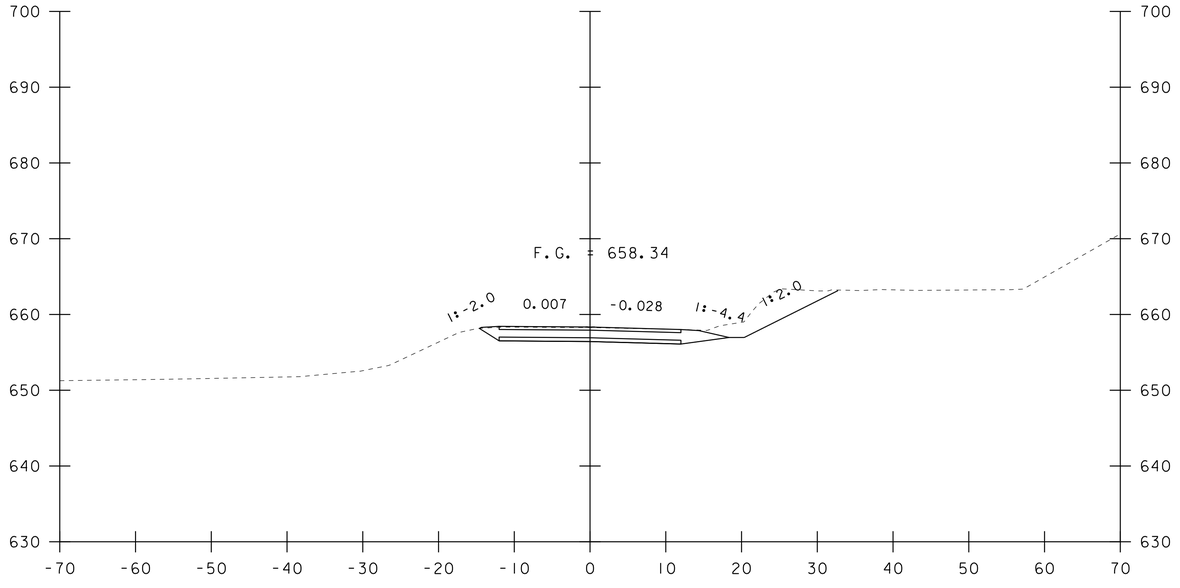
14+25



14+75



14+00



14+50

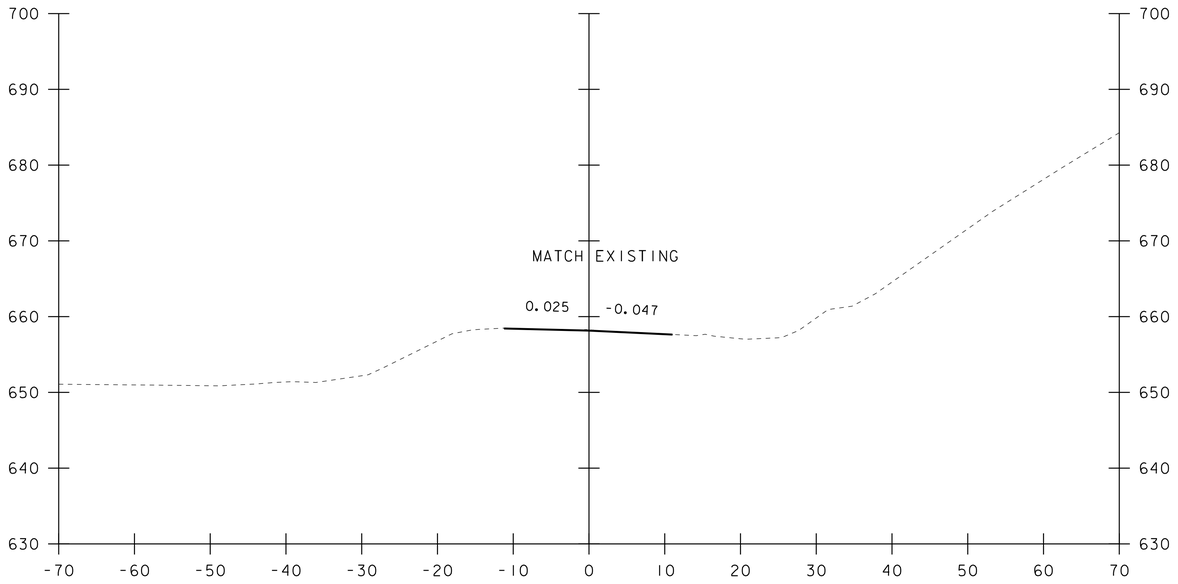
STA 14+50.00
END PROJECT

STA. 14+00 TO STA. 14+75

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

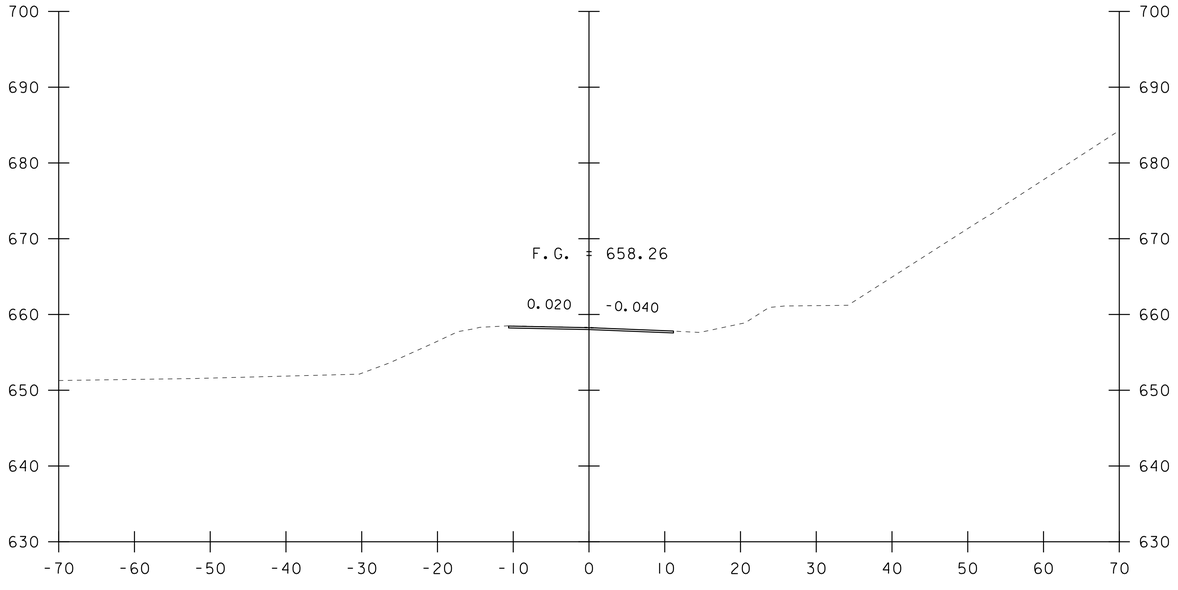
FILE NAME: sl2j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 4

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 17 OF 26



15+25

STA 15+25.00
END APPROACH
MATCH EXISTING



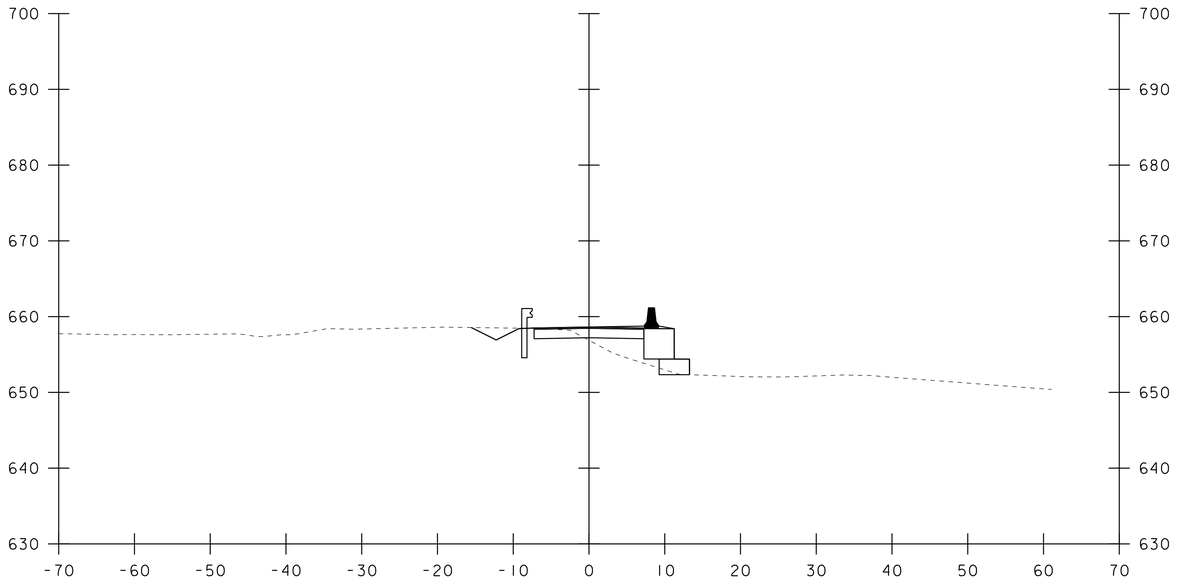
15+00

STA. 15+00 TO STA. 15+25

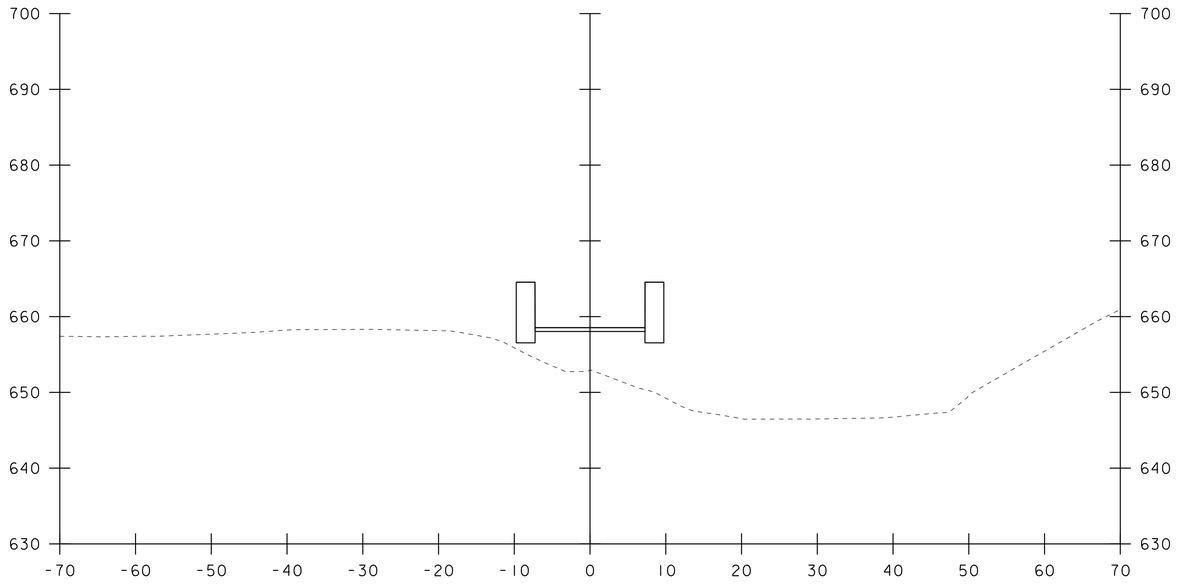
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 5

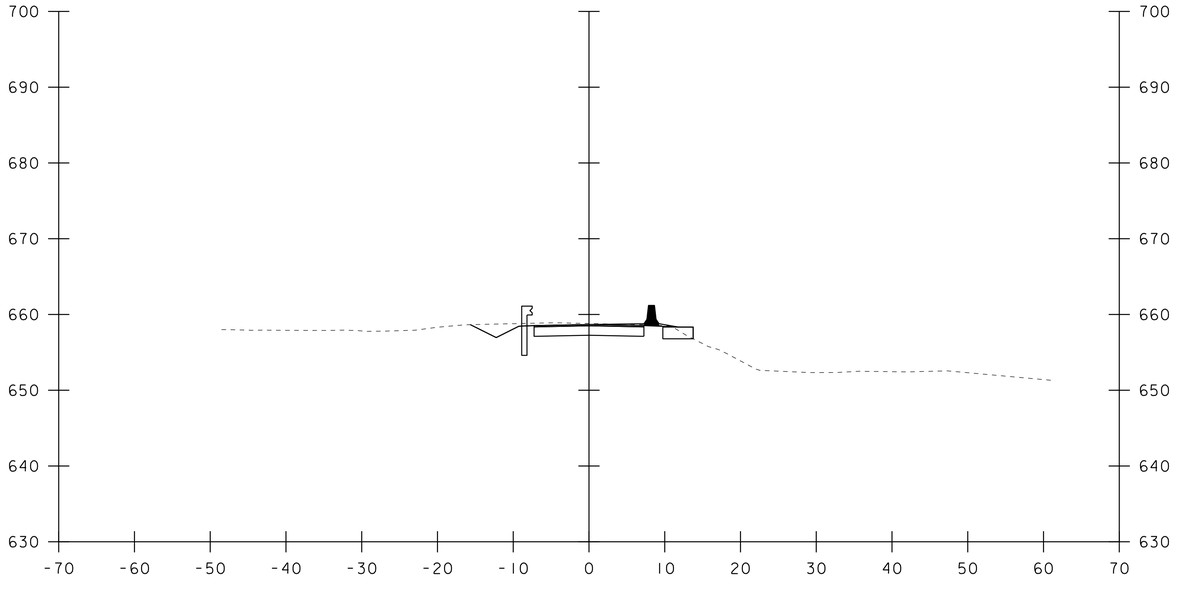
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 18 OF 26



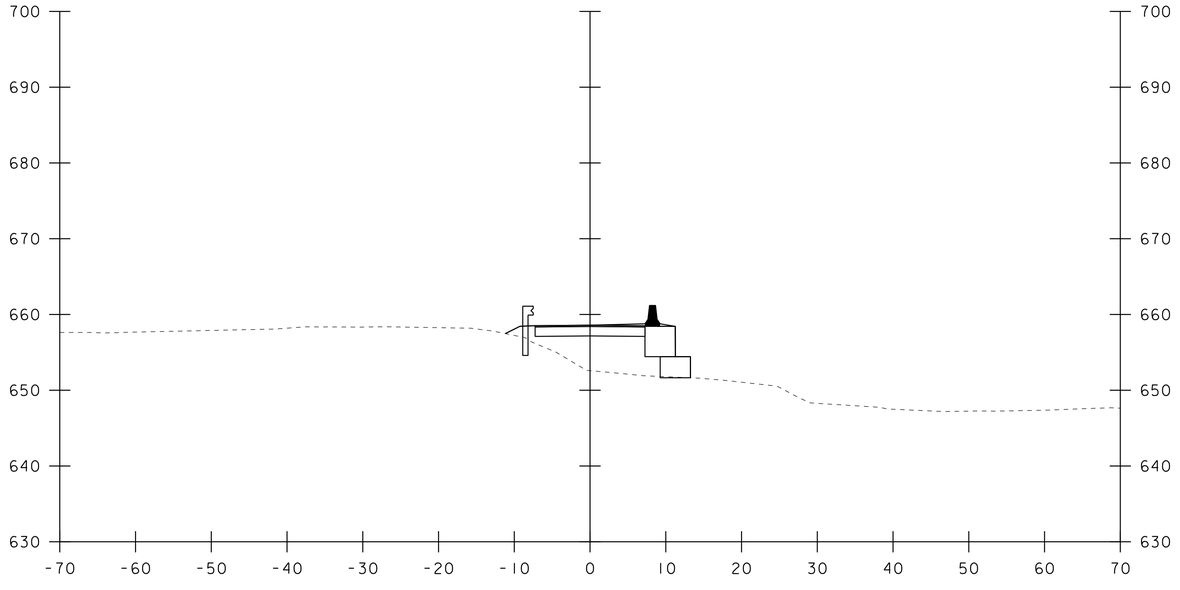
101+50



102+00



101+25



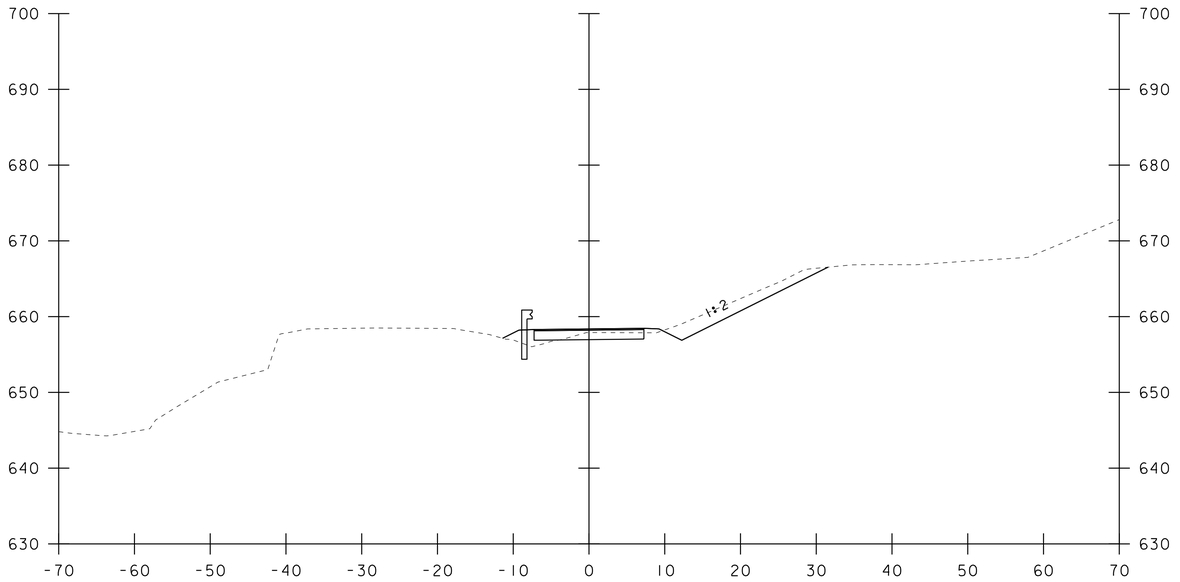
101+75

STA. 101+25 TO STA. 102+00

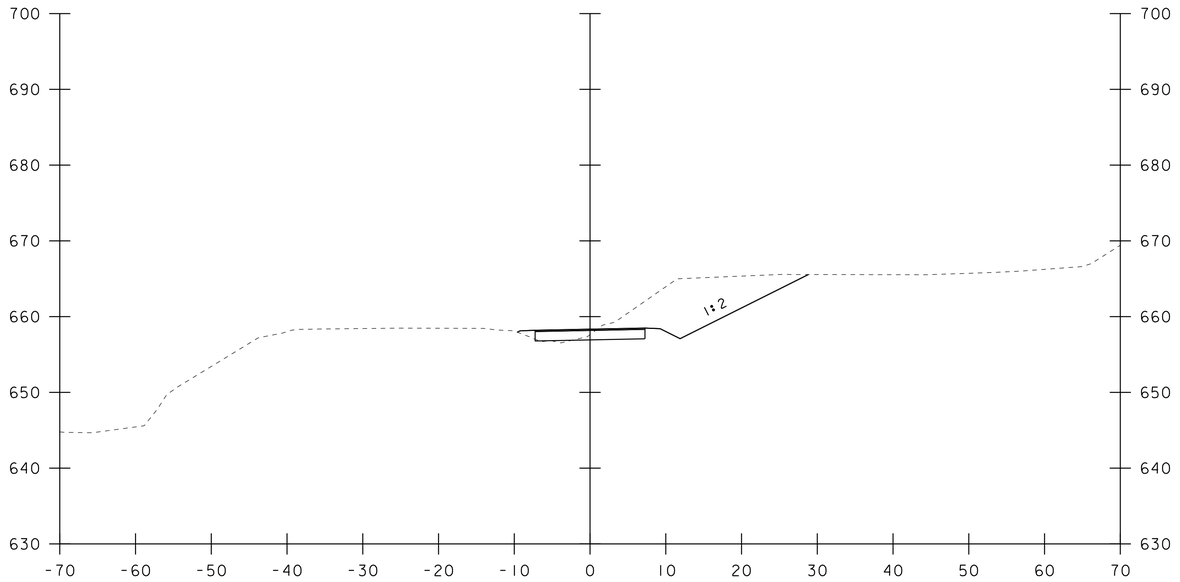
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660temp.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: M. LONGSTREET
TEMPORARY BRIDGE CROSS SECTIONS 1

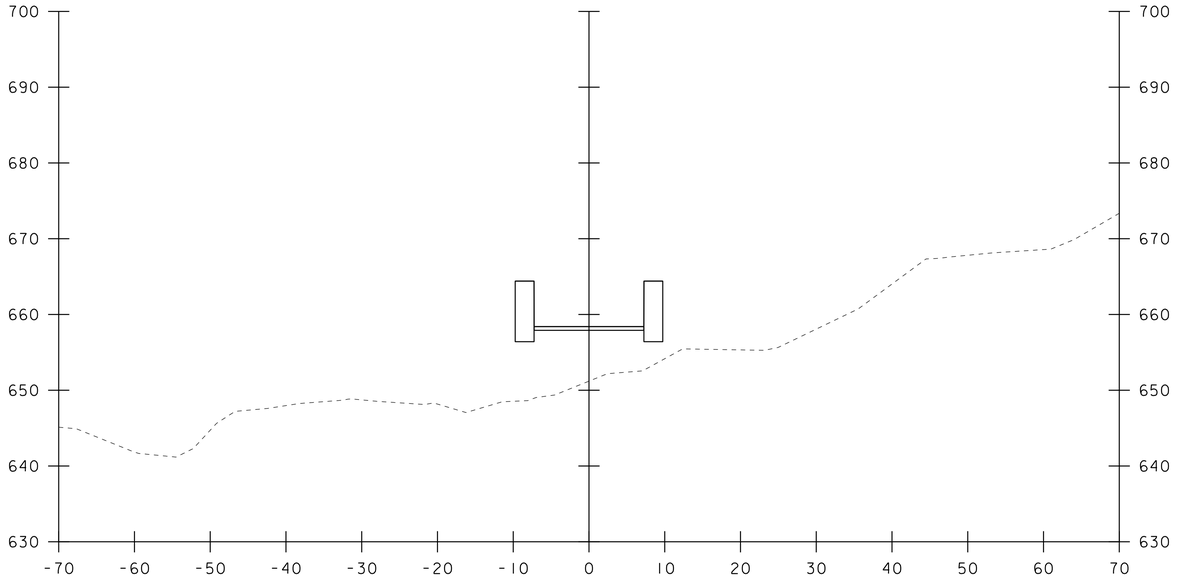
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 19 OF 26



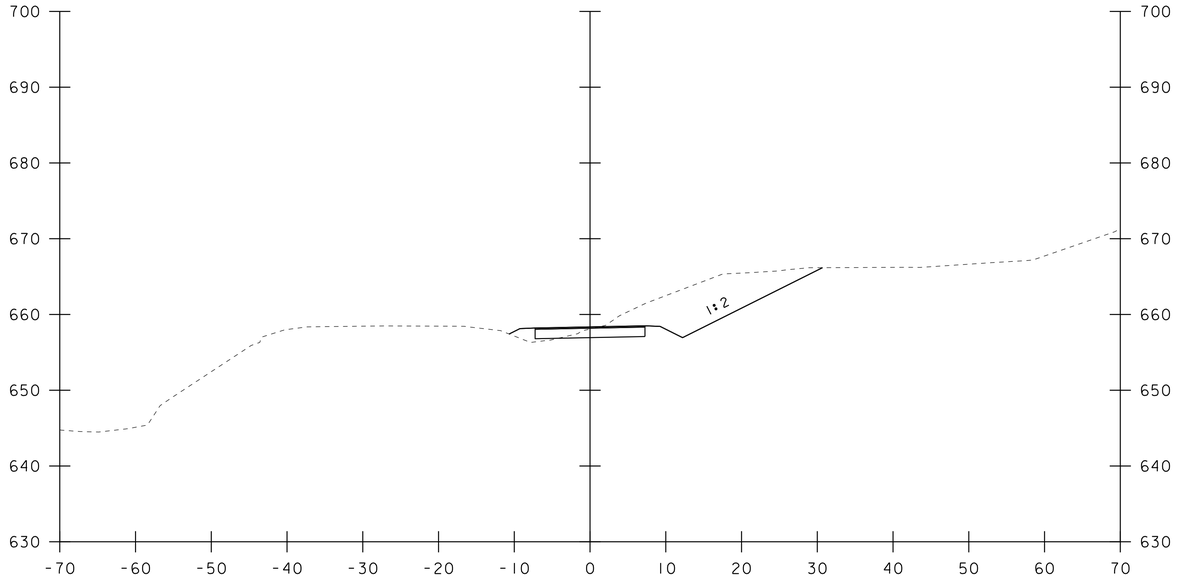
102+90



103+10



102+75



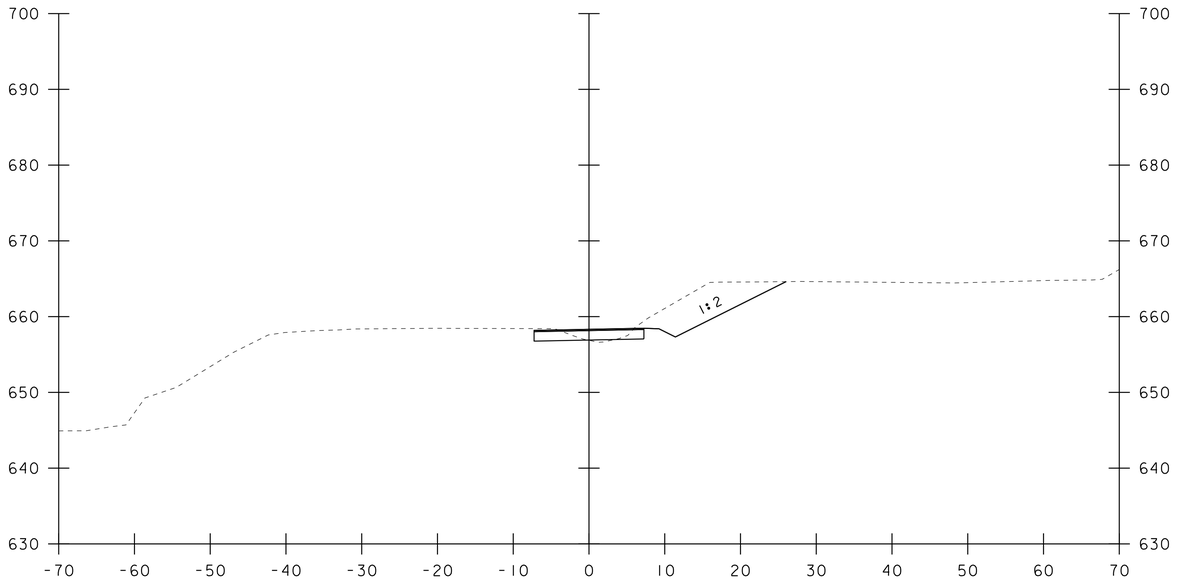
103+00

STA. 102+75 TO STA. 103+10

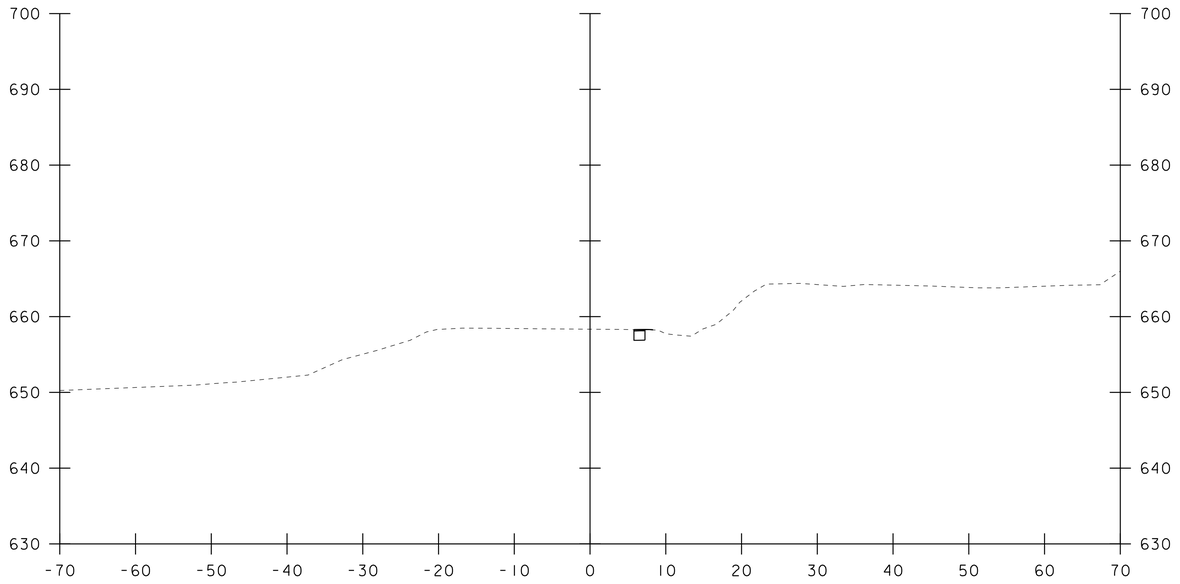
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660temp.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: M. LONGSTREET
TEMPORARY BRIDGE CROSS SECTIONS 2

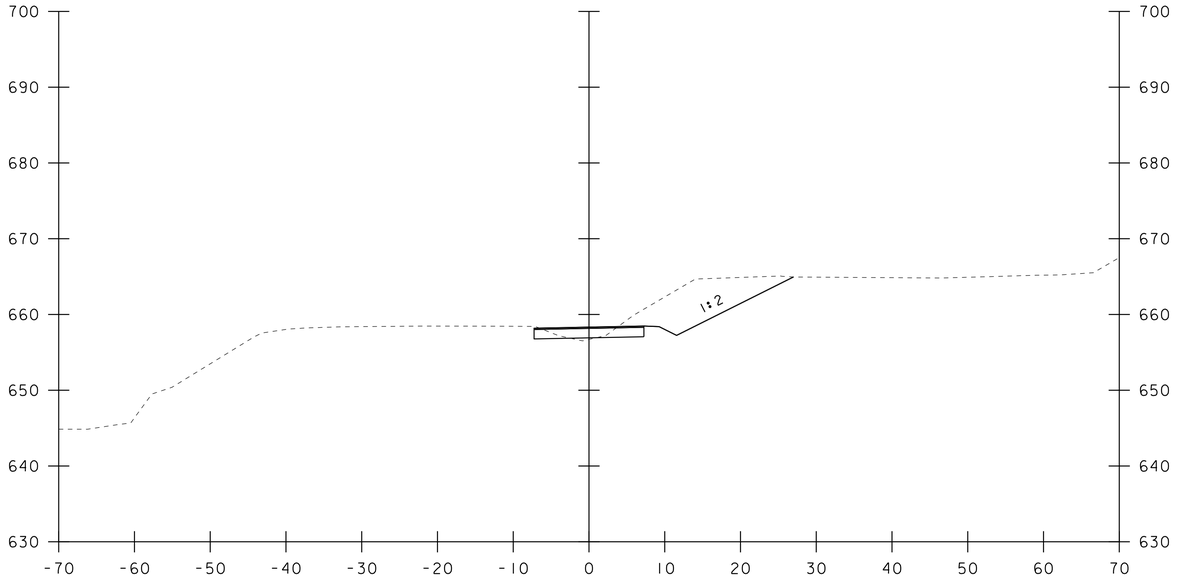
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 20 OF 26



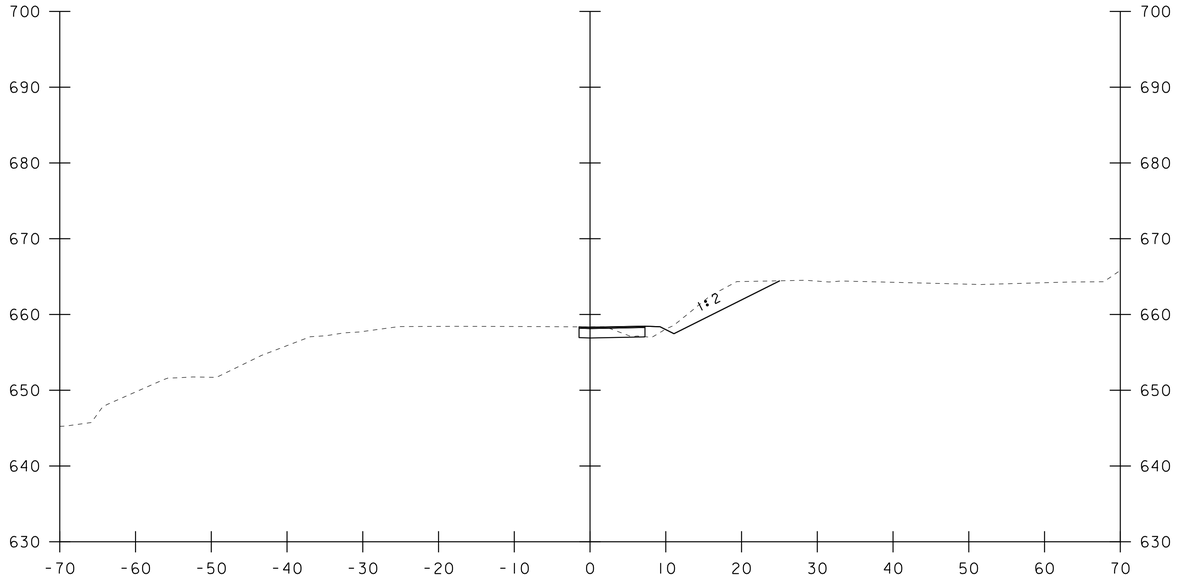
103+25



103+50



103+20



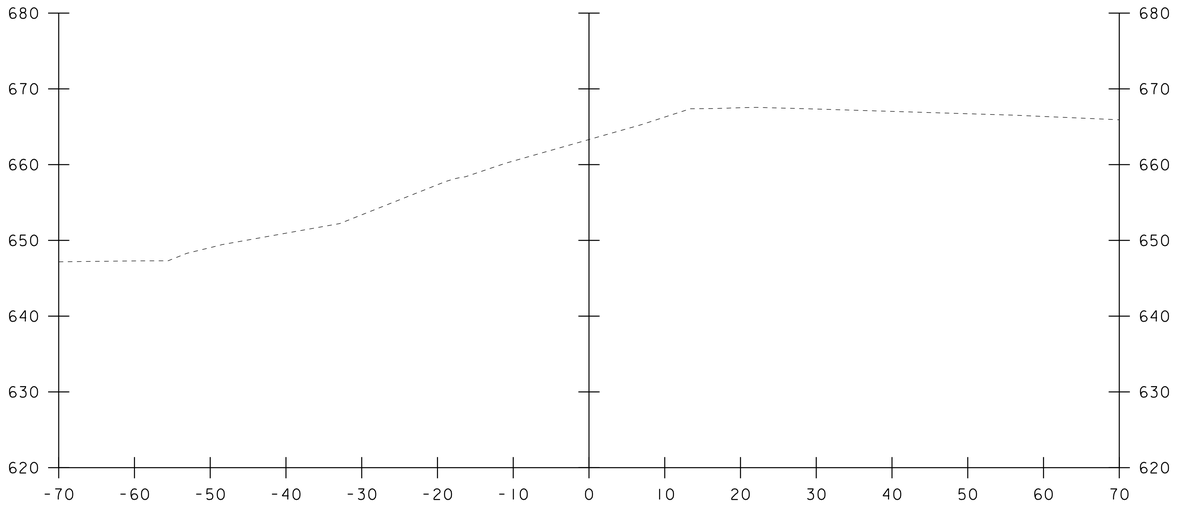
103+35

STA. 103+20 TO STA. 103+50

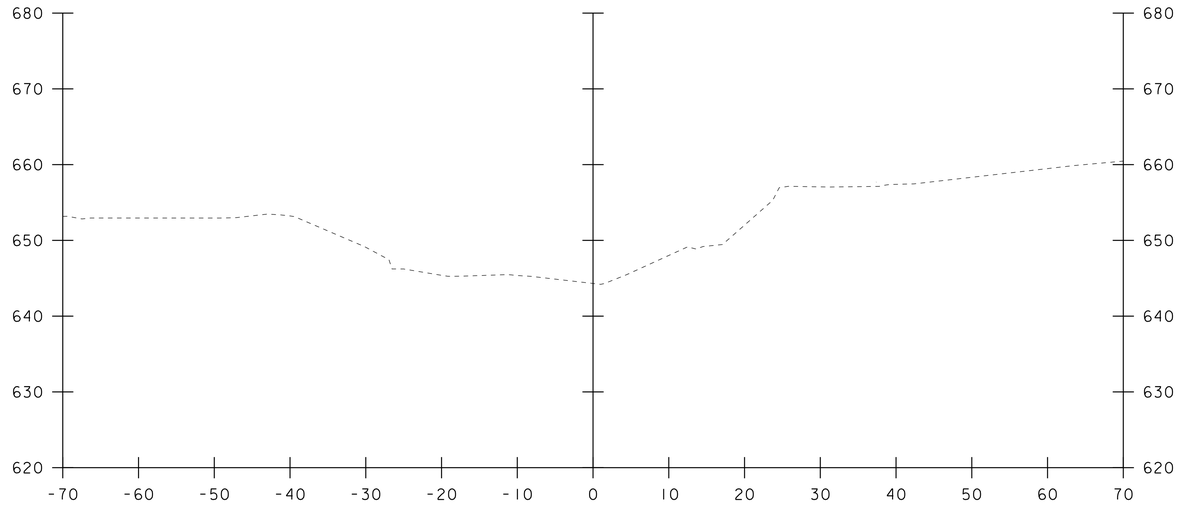
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660temp.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: M. LONGSTREET
TEMPORARY BRIDGE CROSS SECTIONS 3

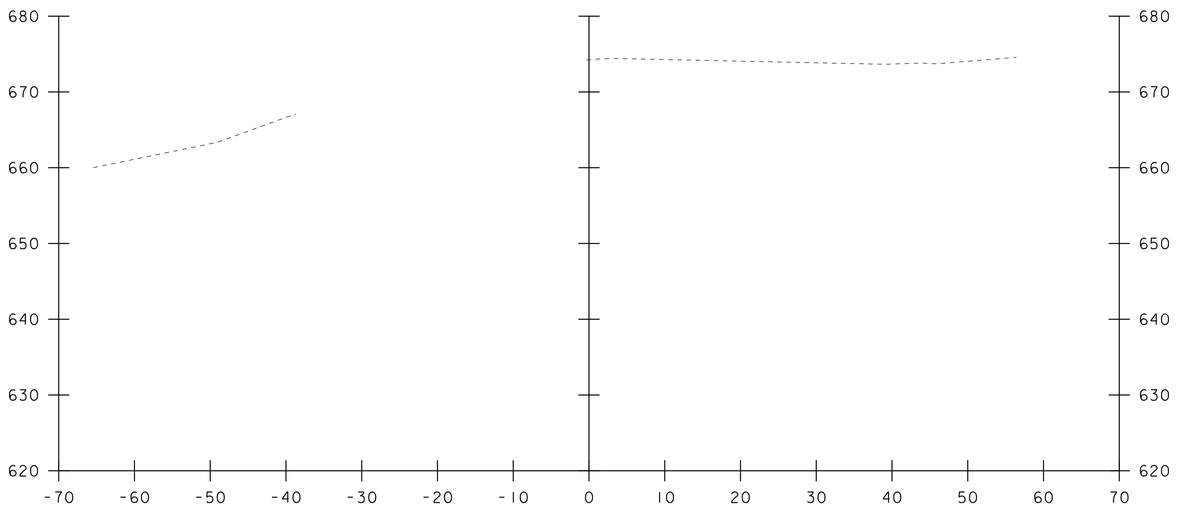
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 21 OF 26



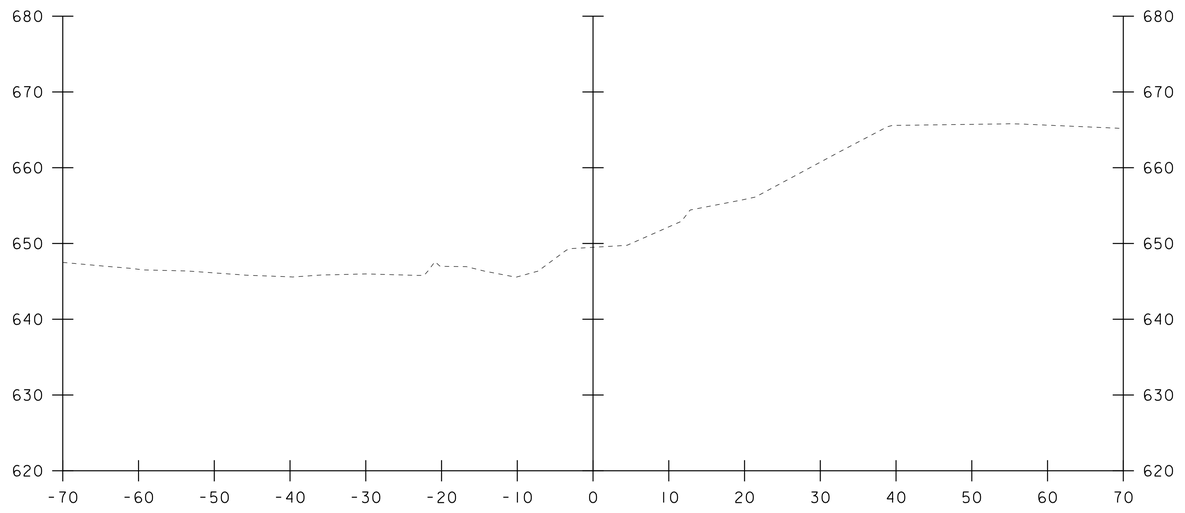
50+25



50+75



50+00



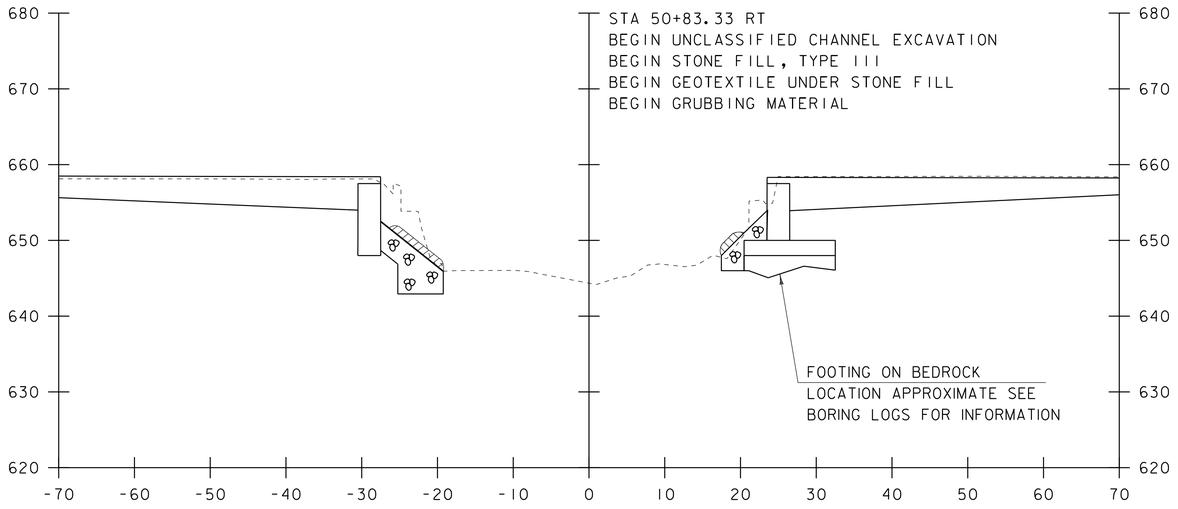
50+50

STA. 50+00 TO STA. 50+75

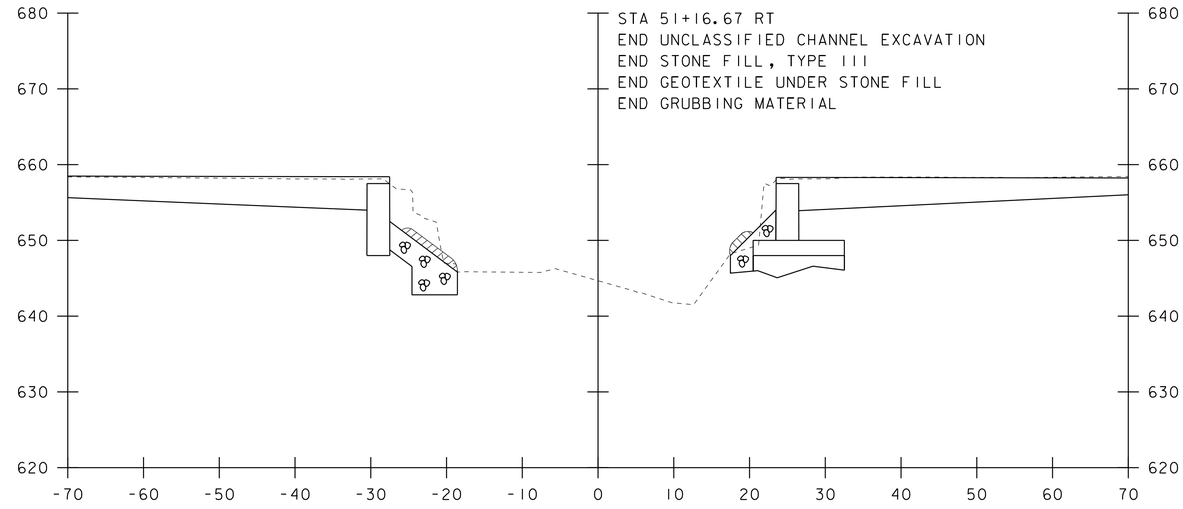
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: s12j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 1

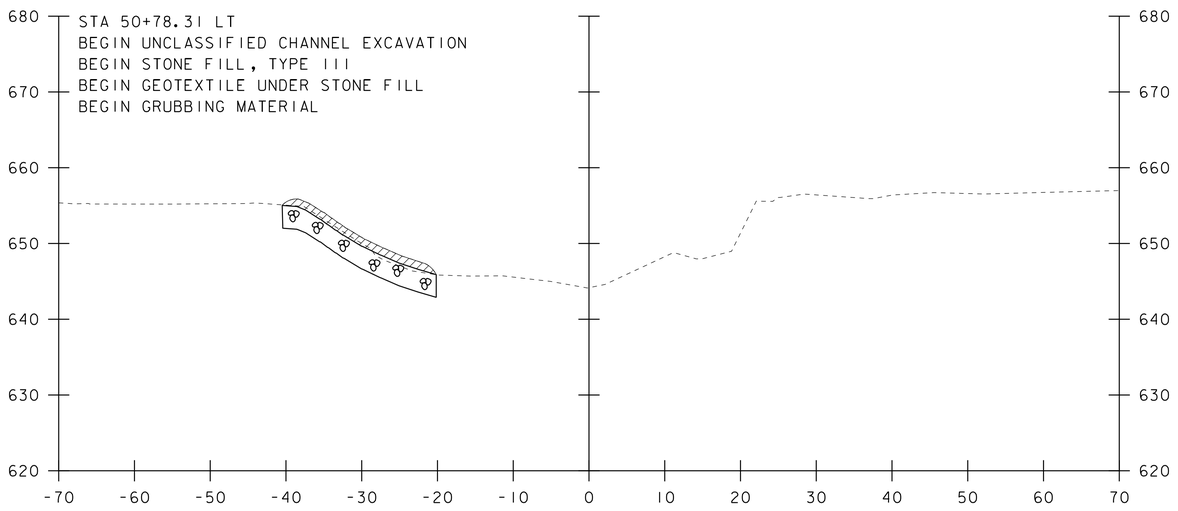
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 22 OF 26



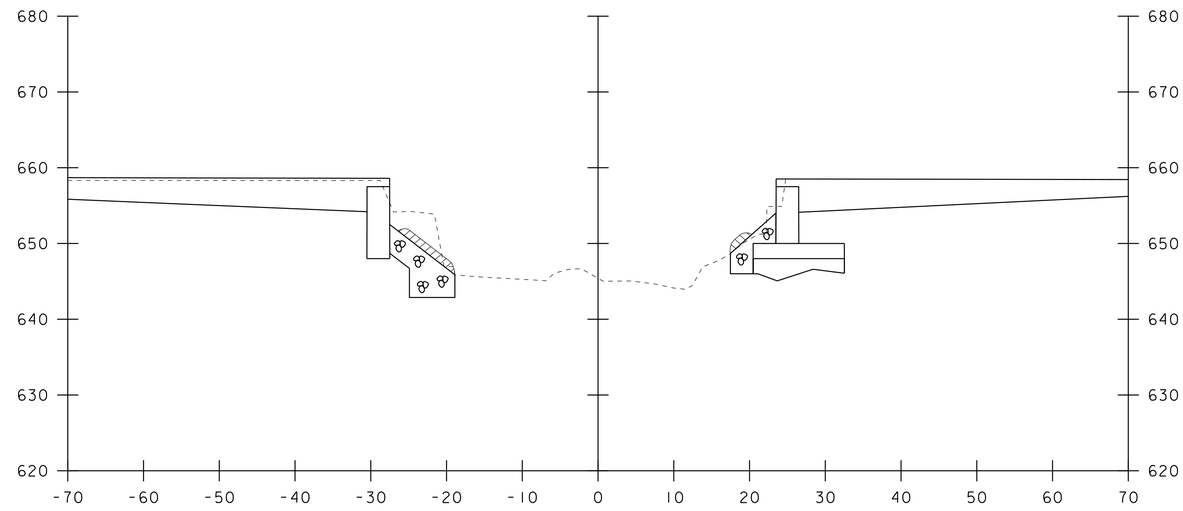
50+90



51+10



50+80



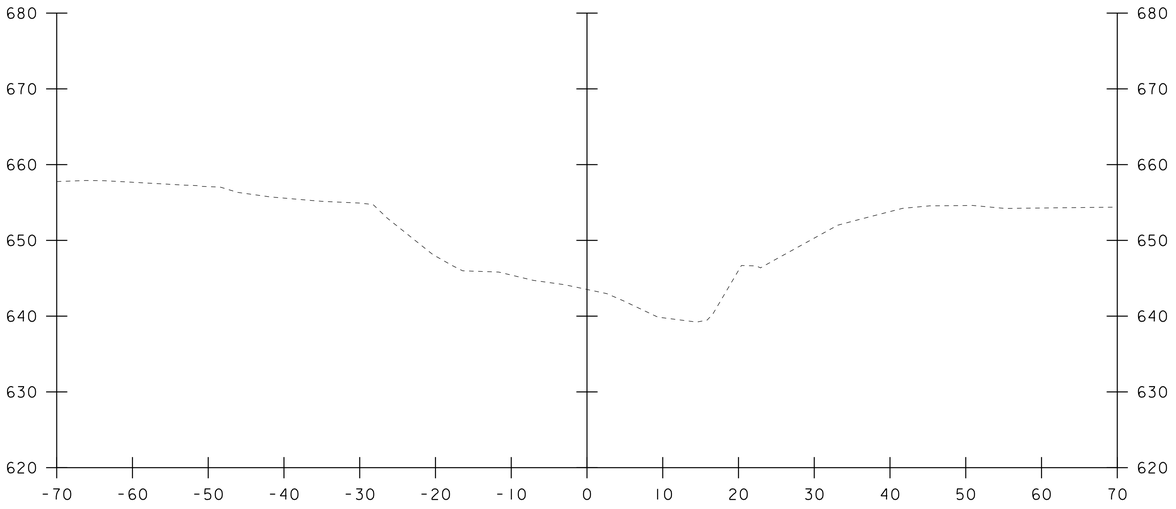
51+00

STA. 50+80 TO STA. 51+10

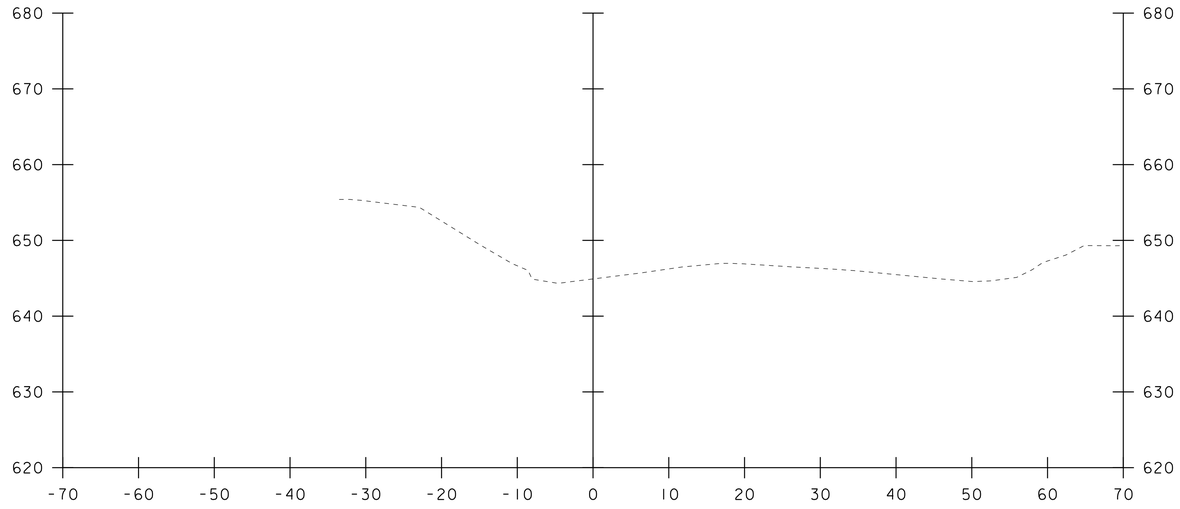
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: s12j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 2

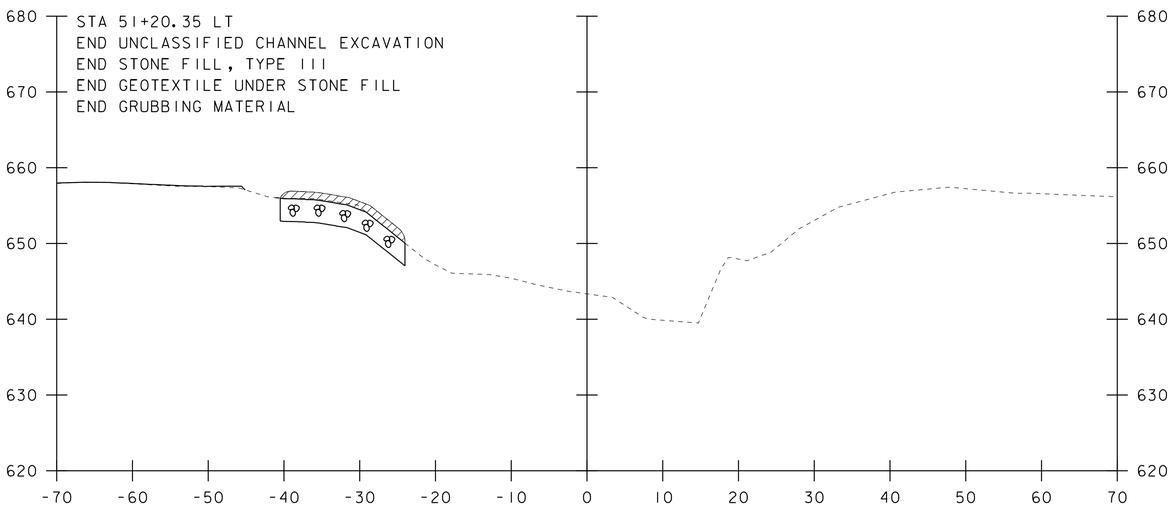
PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 23 OF 26



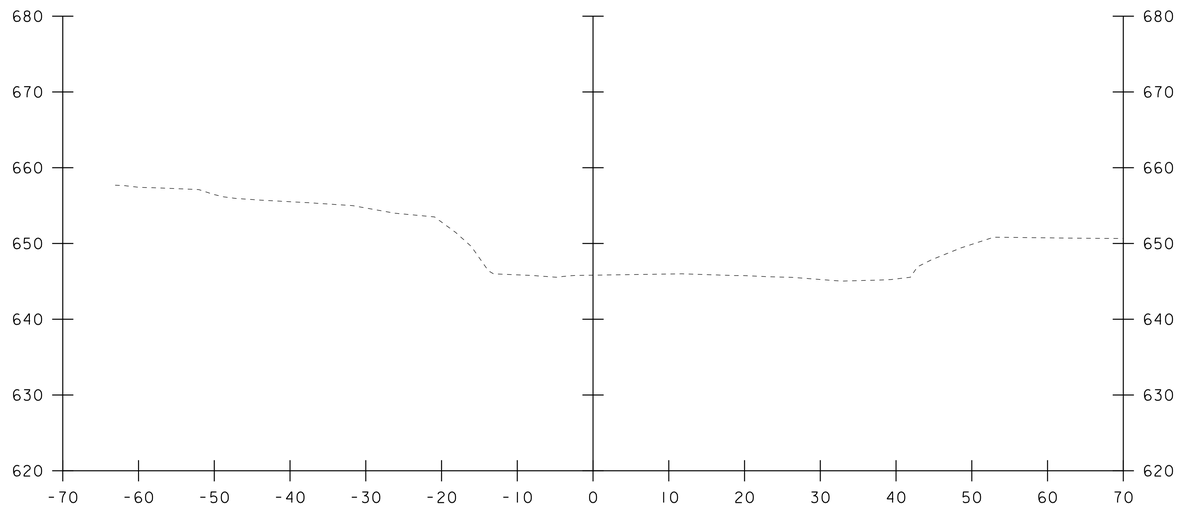
51+25



51+75



51+20



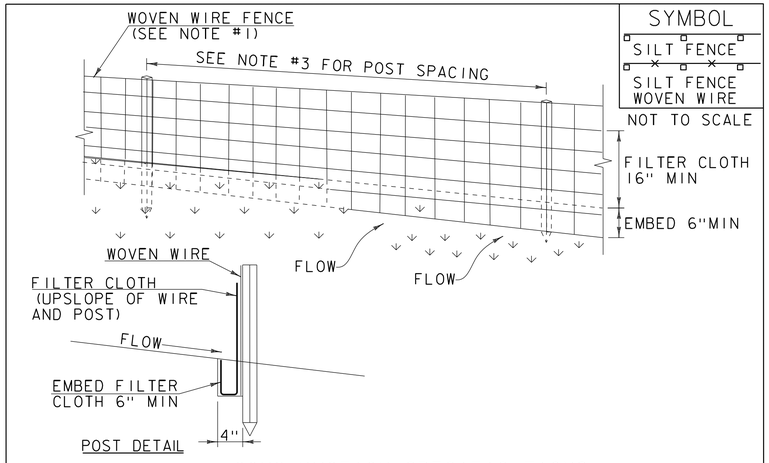
51+50

STA. 51+20 TO STA. 51+75

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: s12j660xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 3

PLOT DATE: 25-MAR-2020
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 24 OF 26



SYMBOL

SILT FENCE

SILT FENCE WOVEN WIRE

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

VAOT LOW GROW/FINE FESCUE MIX

LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
38%	57	95	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX

LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
37.5%	22.5	45	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

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

CONSTRUCTION GUIDANCE

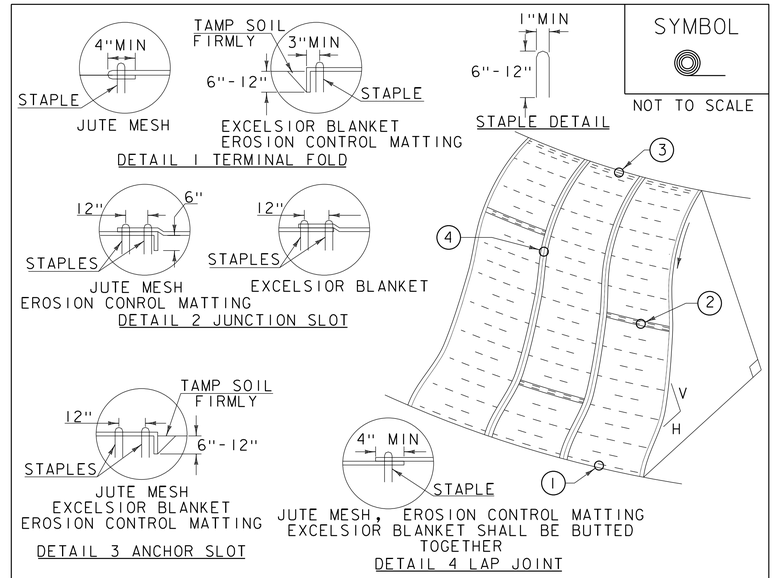
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 12, 2015	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME 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 CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) ~~OR PERMANENT EROSION MATTING (PAY ITEM 653.21).~~

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

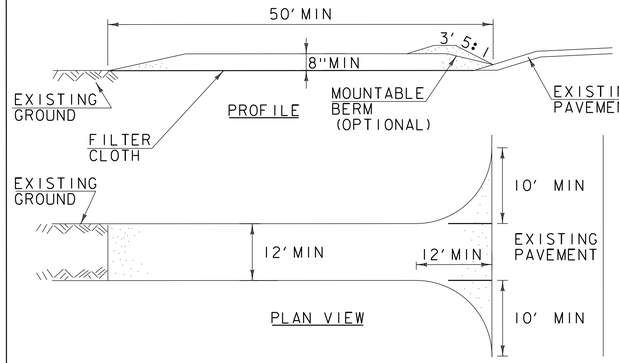
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: si2j660erodetails.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
EPSC DETAILS 1

PLOT DATE: 25-MAR-2020
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET 25 OF 26

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE 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.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

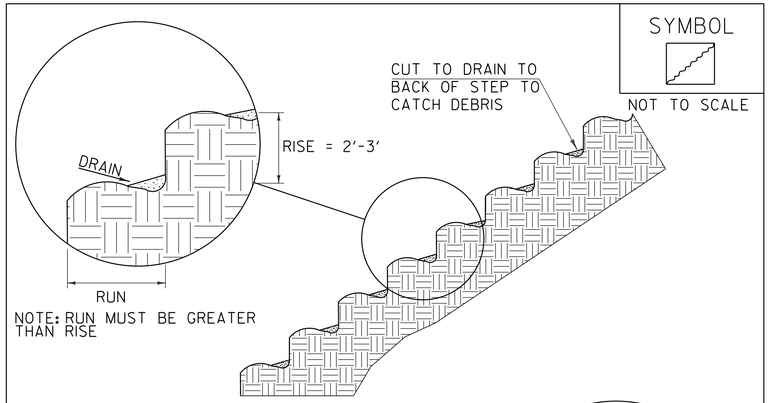
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

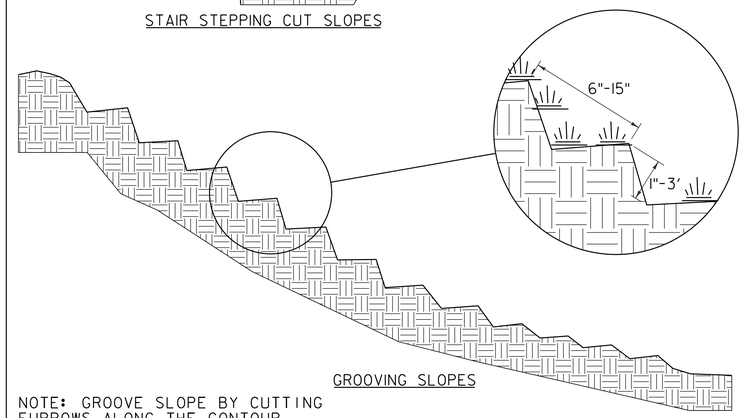
REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

SYMBOL

NOT TO SCALE



STAIR STEPPING CUT SLOPES



GROOVING SLOPES

NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SURFACE ROUGHENING

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(37)

FILE NAME: s12j660erodetails.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
EPSC DETAILS 2

PLOT DATE: 25-MAR-2020
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET 26 OF 26