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.

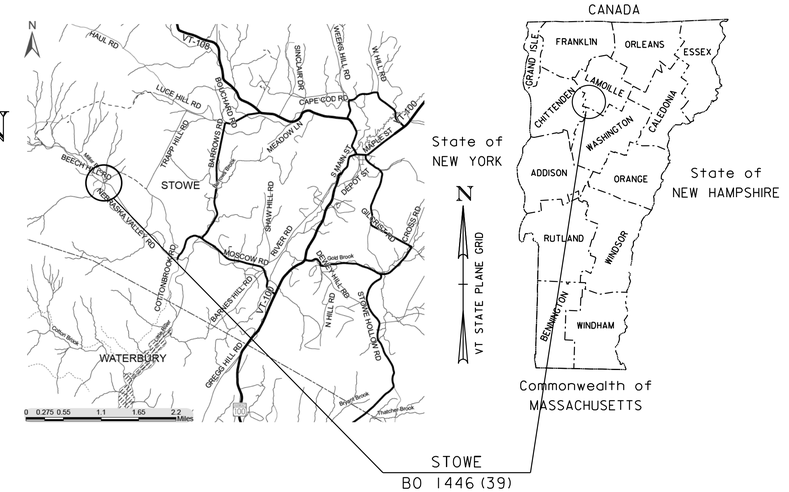
3. FINAL HYDRAULICS HAS BEEN REQUESTED.

4. 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.

5. UTILITIES WILL NEED TO BE RELOCATED DURING CONSTRUCTION. A REQUEST HAS BEEN SUBMITTED.

6. THIS PROJECT WILL BE COMBINED FOR ADVERTISEMENT IN A SINGLE CONTRACT WITH THE STOWE BO 1446(37) BRIDGE 51 PROJECT.

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF STOWE

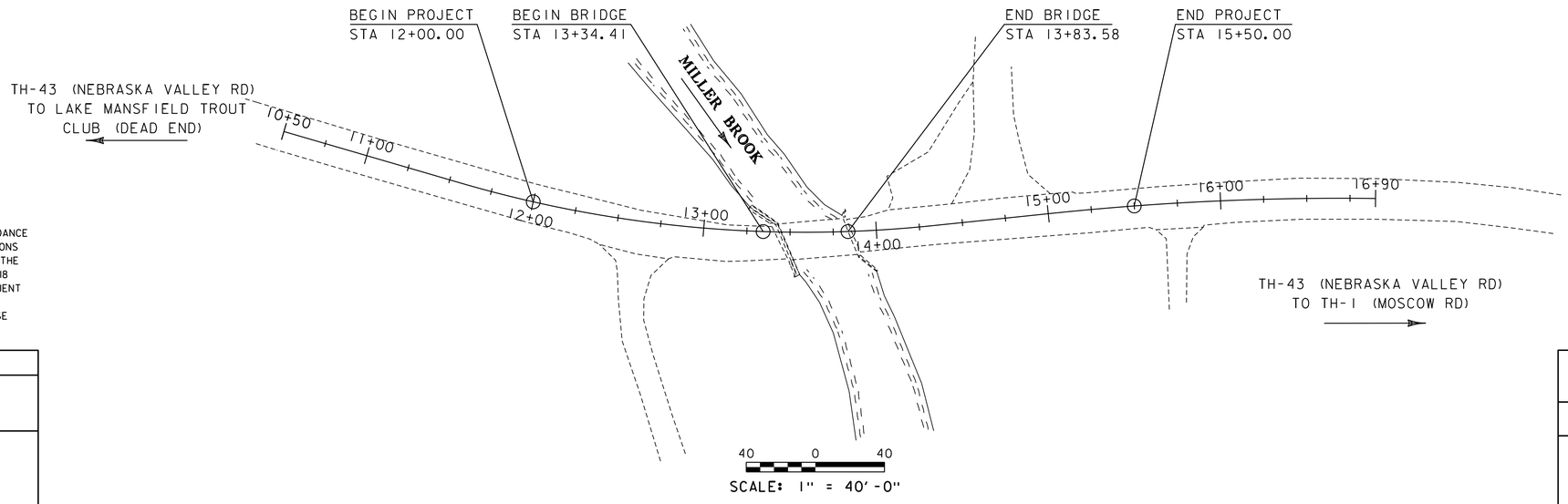
COUNTY OF LAMOILLE

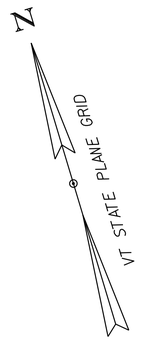
ROUTE NO : TOWN HIGHWAY 43 (CLASS 3 TOWN HIGHWAY) BRIDGE NO : 48

PROJECT LOCATION : BRIDGE 48 IS LOCATED IN THE TOWN OF STOWE ON TH 43 (NEBRASKA VALLEY ROAD) APPROXIMATELY 1.5 MILES NORTHWEST FROM ITS INTERSECTION WITH TH 1 (MOSCOW ROAD) AND EXTENDING EASTERLY .066 MILES.

PROJECT DESCRIPTION : REPLACEMENT OF THE EXISTING BRIDGE WITH A NEW BRIDGE OFF ALIGNMENT INCLUDING RELATED APPROACH AND CHANNEL WORK.

LENGTH OF STRUCTURE : 49.17 FEET.
LENGTH OF ROADWAY : 300.83 FEET.
LENGTH OF PROJECT : 350.00 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
20-SEP-2022

HIGHWAY DIVISION, CHIEF ENGINEER

APPROVED _____ DATE _____

PROJECT MANAGER : CAROLYN COTA, P.E.

PROJECT NAME : STOWE
PROJECT NUMBER : BO 1446(39)

SHEET 1 OF 25 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

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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:	48.00 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. SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD)	f'_c:	4.0 KSI
9. SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCS)	f'_c:	3.5 KSI
10. SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS SCC)	f'_c:	4.0 KSI
11. CONCRETE, CLASS C	f'_c:	3.0 KSI
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270 (GALVANIZED)	f_y:	50 KSI
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 SEMI
TONNAGE	**20**	**36**	**36**	**66**	**30**	**34.5**	**38**
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2024	400	60	54	1.5	35
2044	70	54	2	50	0

20 year ESAL for flexible pavement from 2024 to 2044 : 76000

40 year ESAL for flexible pavement from 2024 to 2064 : 160000

Design Speed : 35 mph

AS BUILT "REBAR" DETAIL

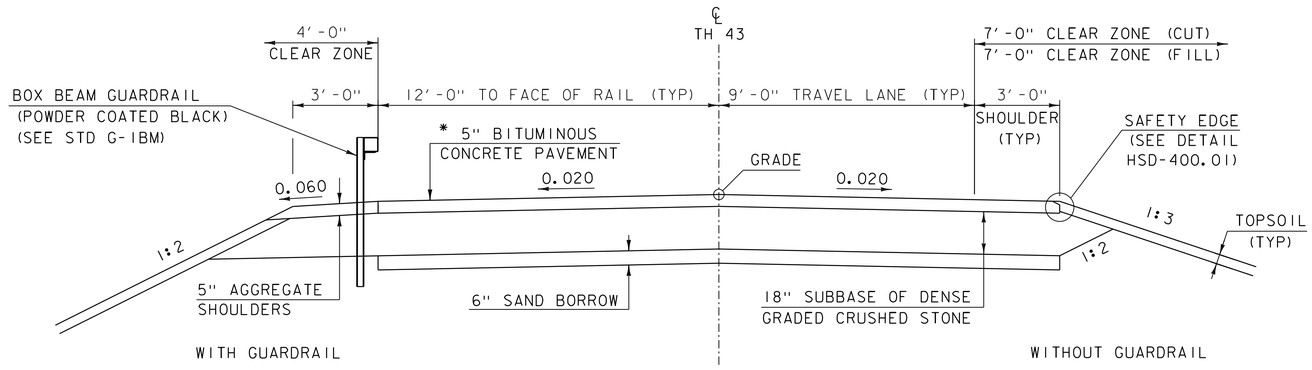
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

PROJECT NAME: STOWE

PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658forms.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
PRELIMINARY INFORMATION SHEET

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



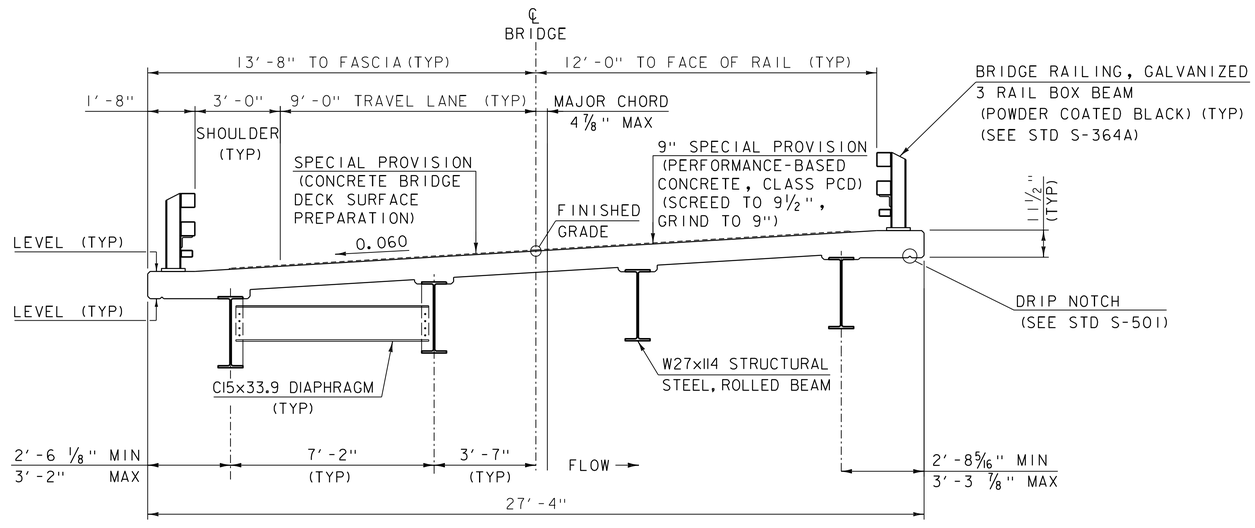
* 1 ½" BCP, TYPE IVS OVER
1 ½" BCP, TYPE IVS OVER
2" BCP, TYPE IIIS

TH 43 (NEBRASKA VALLEY RD) ROADWAY TYPICAL SECTION

SCALE ⅜" = 1'-0"

BITUMINOUS CONCRETE PAVEMENT MATERIAL REQUIREMENTS

DESIGN LANE/DESIGN LIFE ESALS	41,040
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	50



BRIDGE TYPICAL SECTION

SCALE ⅜" = 1'-0"

MATERIAL TOLERANCES

(IF USED ON PROJECT)

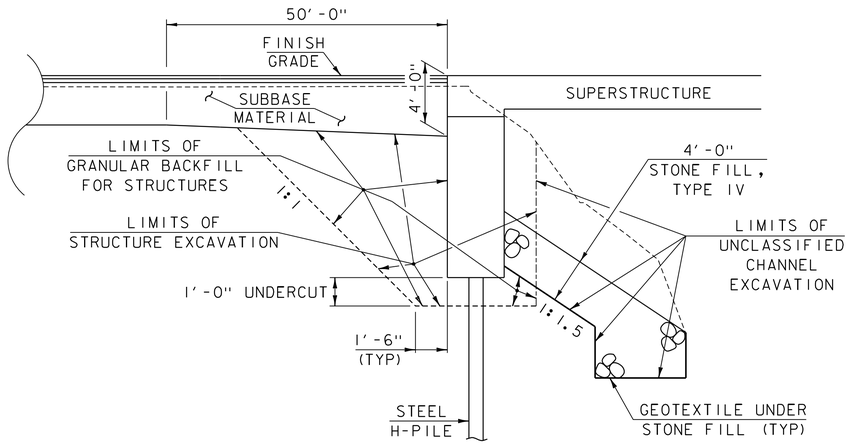
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

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

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

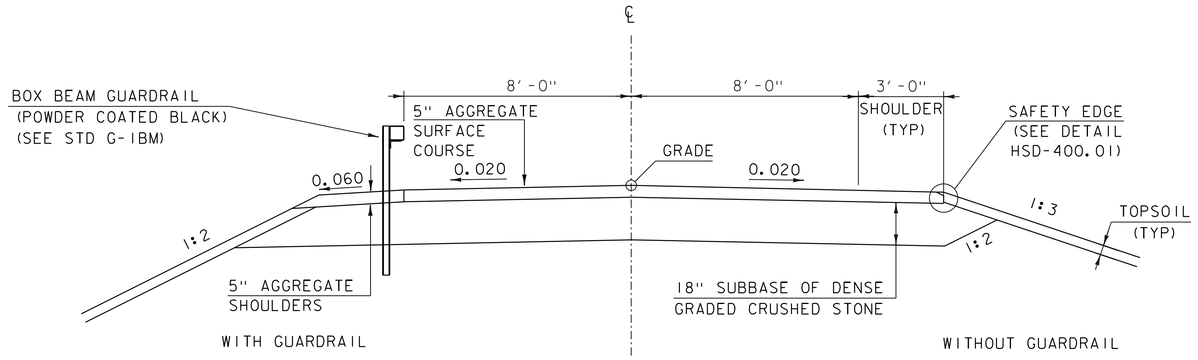
FILE NAME: sl2j658typ.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TYPICAL SECTIONS 1

PLOT DATE: 20-SEP-2022
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET $S#$ OF $T#$



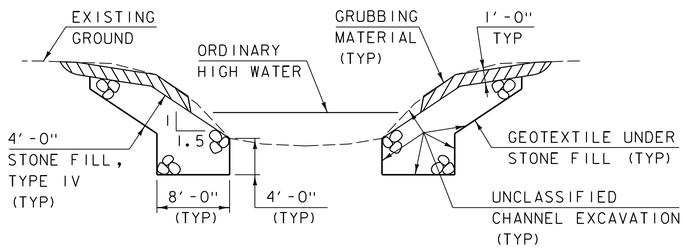
ABUTMENT EARTHWORK TYPICAL SECTION

(NOT TO SCALE)



SIDE ROAD TYPICAL SECTION

NTS



CHANNEL TYPICAL 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.

PROJECT NAME: STOWE	
PROJECT NUMBER: BO 1446(39)	
FILE NAME: sl2j658typ.dgn	PLOT DATE: 20-SEP-2022
PROJECT LEADER: C. COTA	DRAWN BY: C. BURRALL
DESIGNED BY: C. BURRALL	CHECKED BY: M. LONGSTREET
TYPICAL SECTIONS 2	SHEET $S#$ OF $T#$

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
- PROJECT DEMARCATION FENCE
- 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 PROPERTY BOUNDARY
- 4f — 4F PROPERTY BOUNDARY
- 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 — 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(39)

FILE NAME: s12j658legend.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CONVENTIONAL SYMBOLOGY LEGEND

PLOT DATE: 20-SEP-2022
DRAWN BY: C. BURRALL
CHECKED BY: A. MANN
SHEET $S#$ OF $T#$

PRIMARY 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

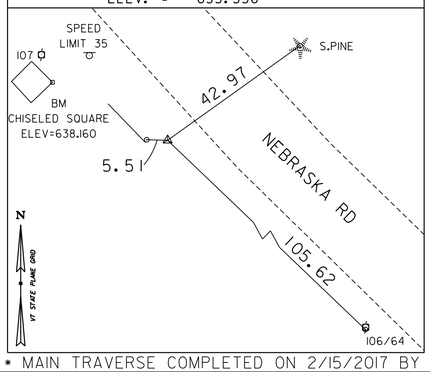
GENERAL LOCATION, STOWE, VT

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.

SECONDARY CONTROL

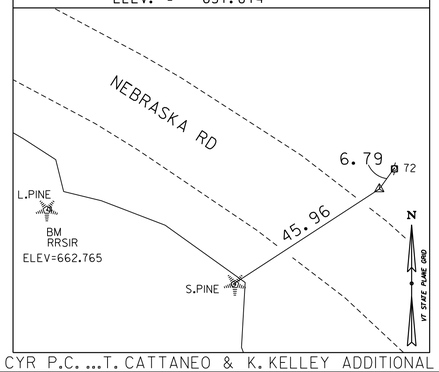
HVCTRL #16

NORTH = 709061.6878
EAST = 1576439.0442
ELEV. = 635.556



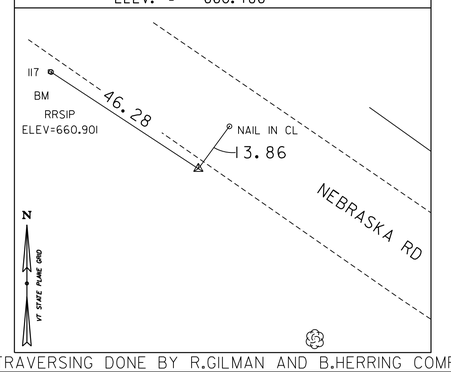
HVCTRL #18

NORTH = 710122.8461
EAST = 1575794.0833
ELEV. = 657.814



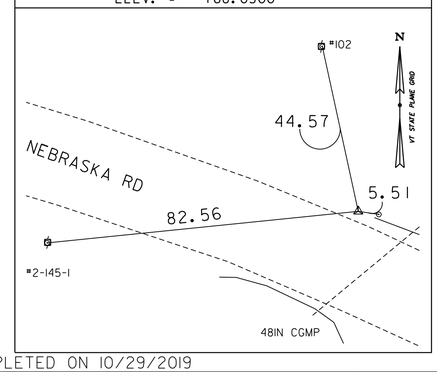
HVCTRL #19

NORTH = 710400.7388
EAST = 1575244.2270
ELEV. = 660.186



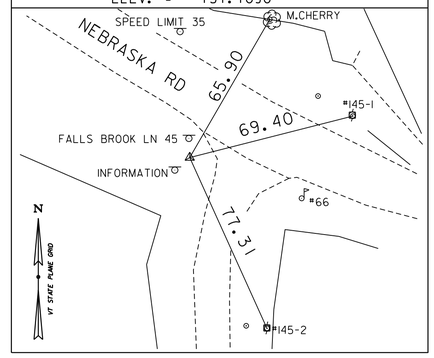
HVCTRL #24

NORTH = 714137.6713
EAST = 1572286.3459
ELEV. = 768.0300



HVCTRL #25

NORTH = 714243.5059
EAST = 1571767.8721
ELEV. = 751.1090

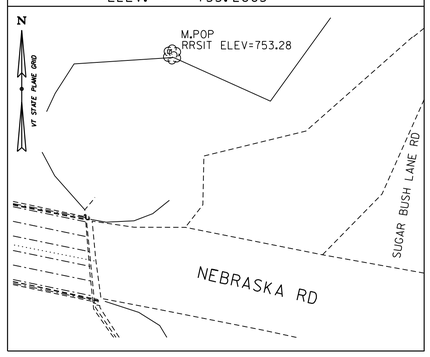


* MAIN TRAVERSE COMPLETED ON 2/15/2017 BY C. CYR P.C. ...T. CATTANEO & K. KELLEY ADDITIONAL TRAVERSING DONE BY R.GILMAN AND B.HERRING COMPLETED ON 10/29/2019

SECONDARY CONTROL

BM #1466

NORTH = 714271.9392
EAST = 1571934.5815
ELEV. = 753.2805



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(39)

FILE NAME: sl2j658tie.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TIES

PLOT DATE: 20-SEP-2022
DRAWN BY: H. MCGOWAN
CHECKED BY: G. HITCHCOCK
SHEET $S#$ OF $T#$

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: s12j658bdrero.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
EXISTING SITE CONDITIONS

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET 7 OF 25

BRIDGE RAILING, GALVANIZED 3 RAIL

BOX BEAM (POWDER COATED BLACK)

STA 13+25.1 LT - STA 13+78.7 LT
STA 13+40.2 RT - STA 13+91.4 RT

BOX BEAM GUARDRAIL (POWDER COATED BLACK)

STA 12+46.9 LT - STA 12+92.6 LT
TH45 STA 1+33.7 RT - STA 13+08.7 RT
STA 14+11.2 LT - STA 14+53.1 LT
STA 14+22.9 RT- STA 15+30.8 RT

GUARDRAIL APPROACH SECTION, GALV 3 RAIL BOX BEAM (POWDER COATED BLACK)

STA 12+92.6 LT - STA 13+25.1 LT
STA 13+08.7 RT - STA 13+40.2 RT
STA 13+78.7 LT - STA 14+11.2 LT
STA 13+91.4 RT - STA 14+22.9 RT

CONSTRUCT GRAVEL APRON

STA 14+45.9 LT - STA 15+02.0 LT
STA 15+62.0 RT - STA 15+89.0 RT

REMOVAL AND DISPOSAL OF GUARDRAIL

STA 13+04.2 LT - STA 13+38.7 LT
STA 13+27.4 RT - STA 13+48.8 RT
STA 13+82.5 LT - STA 14+01.8 LT
STA 13+91.5 RT - STA 14+11.4 RT

REMOVE & RESET MAILBOX, SINGLE SUPPORT

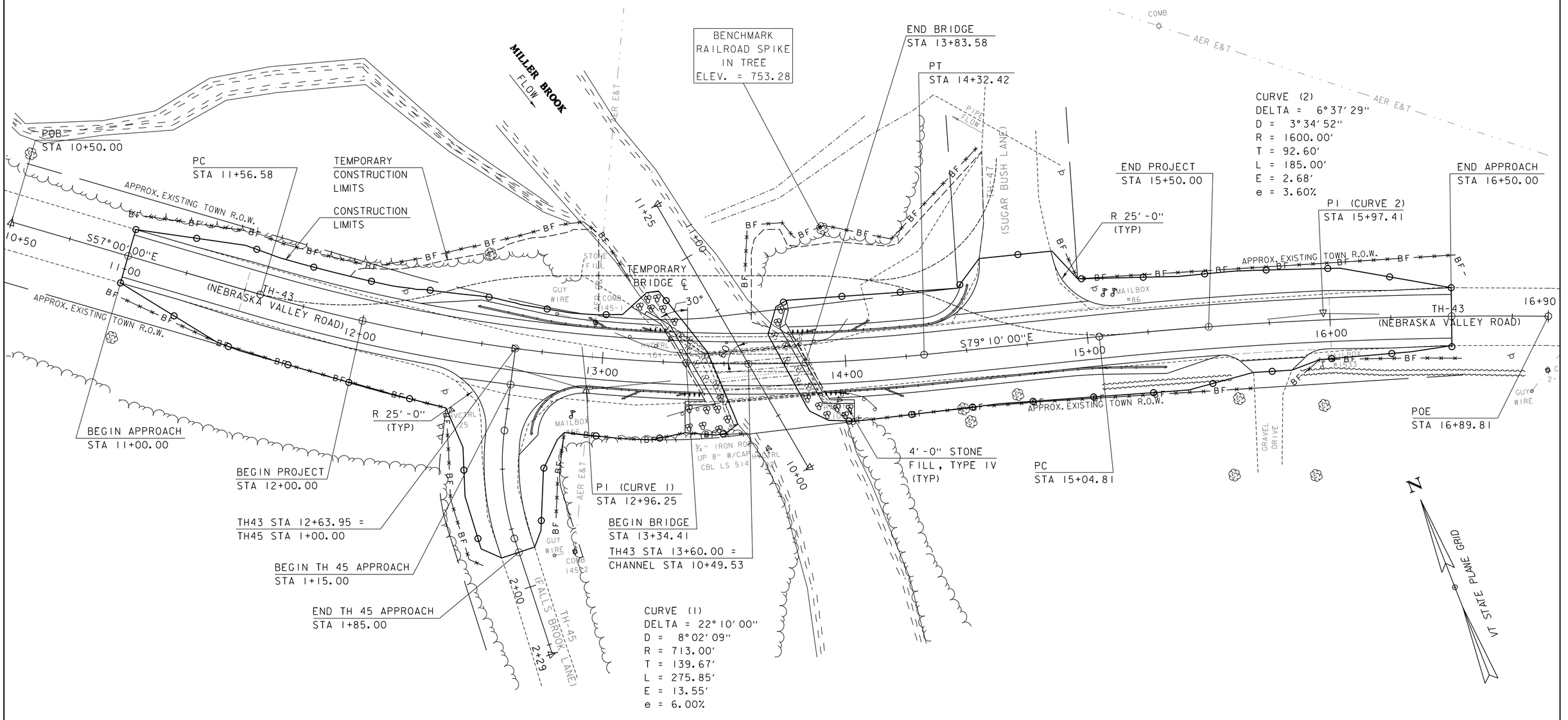
STA 12+89.4 RT
STA 15+08.0 LT
STA 15+11.9 LT

4 INCH YELLOW LINE

STA 11+00.0 CL - STA 12+44.0 CL (DOUBLE)
STA 12+84.0 CL - STA 14+55.0 CL (DOUBLE)
STA 14+94.0 CL - STA 16+50.0 CL (DOUBLE)

DELINEATOR WITH STEEL POST

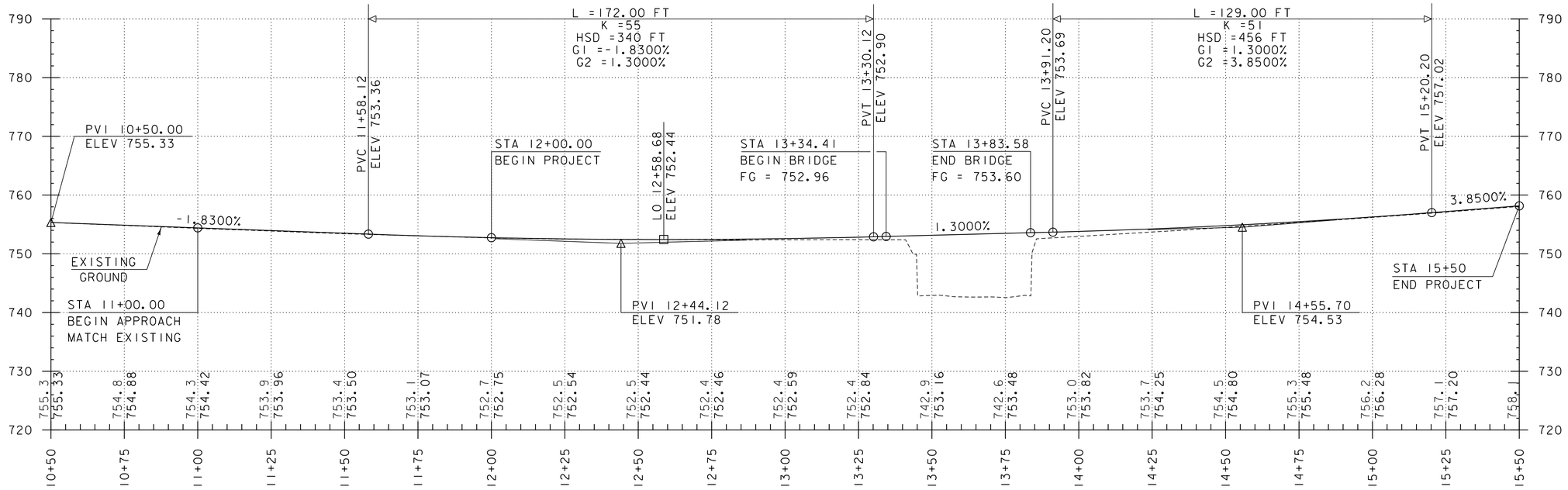
STA 12+46.9 LT (GREEN)
STA 13+08.7 LT (BLUE)
STA TH45 1+33.7 RT (BLUE)
STA 15+30.8 RT (GREEN)

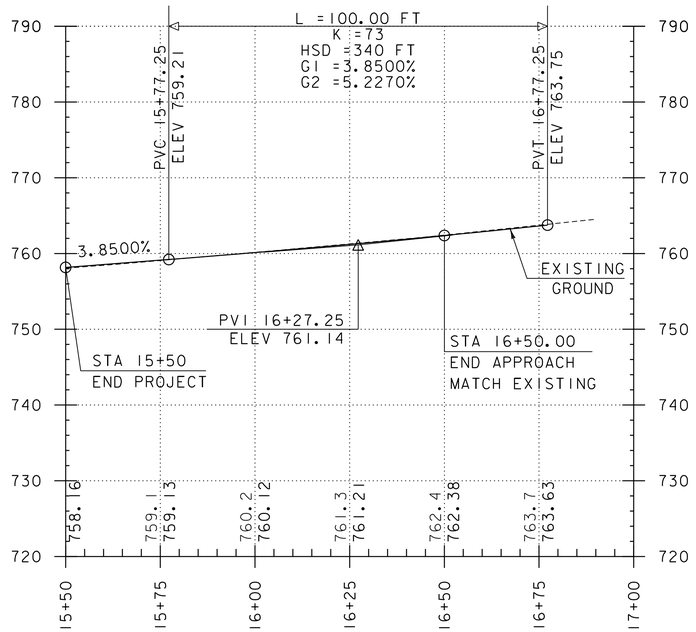


EXISTING BRIDGE INFORMATION
BUILT 1925 ROLLED I BEAM,
CONCRETE CIP DECK
SPAN LENGTH: 45'

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

PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(39)
FILE NAME: sl2j658bdr.dgn	PLOT DATE: 20-SEP-2022
PROJECT LEADER: C. COTA	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: C. BURRALL
LAYOUT	SHEET 8 OF 25





TH 43 (NEBRASKA VALLEY RD) PROFILE

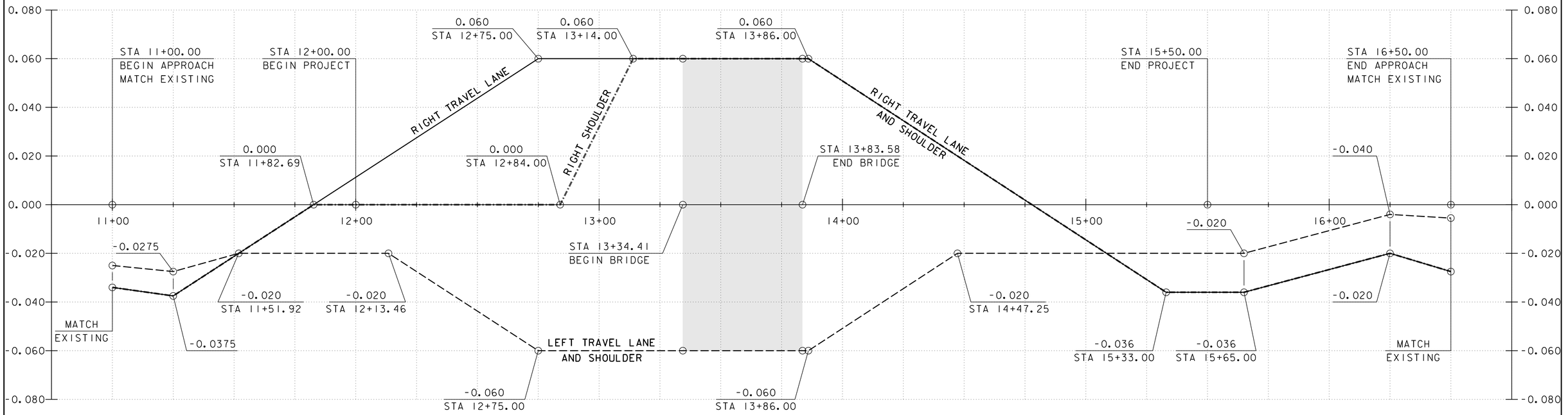
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

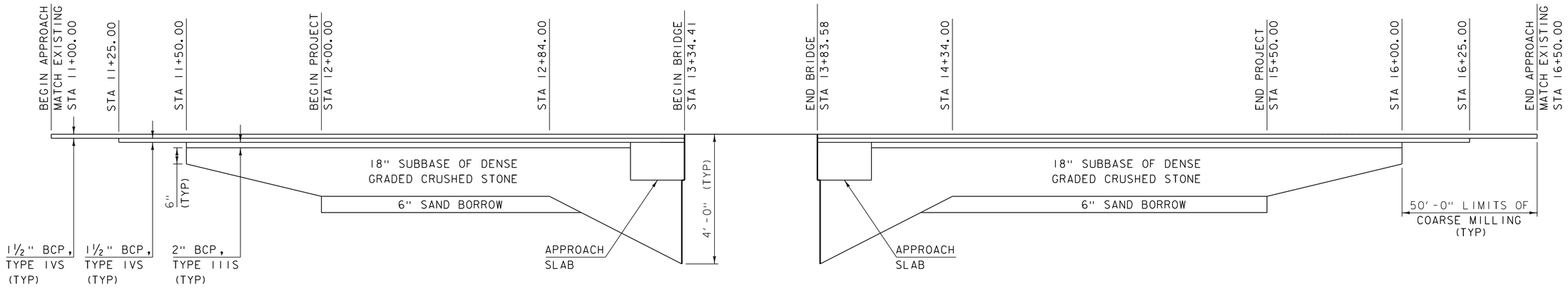
ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(39)
FILE NAME: sl2j658pro.dgn	PLOT DATE: 20-SEP-2022
PROJECT LEADER: C. COTA	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: C. BURRALL
TH 43 PROFILE	SHEET $S#$ OF $T#$



TH 43 (NEBRASKA VALLEY RD) BANKING DIAGRAM

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 0.020'/'



TH 43 (NEBRASKA VALLEY RD) MATERIAL TRANSITION DETAIL

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

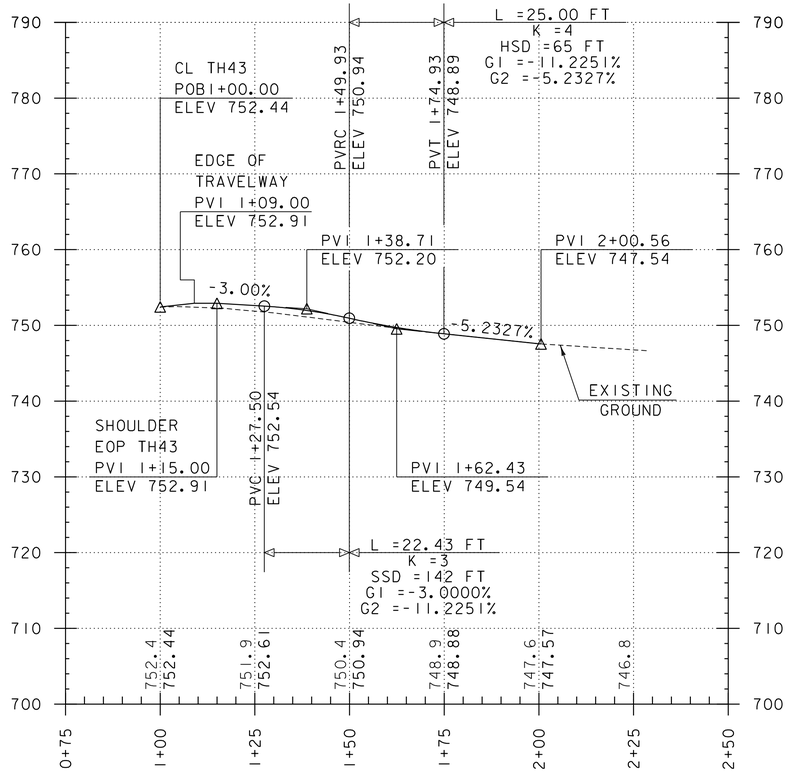
BCP = BITUMINOUS CONCRETE PAVEMENT

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(39)

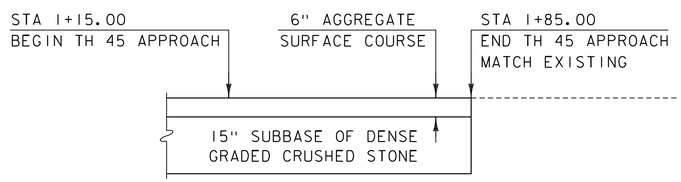
FILE NAME: sl2j658pro.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 BANKING & MATERIAL TRANSITION

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



TH 45 (FALLS BROOK LANE) PROFILE

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



TH 45 (FALLS BROOK LANE) MATERIAL TRANSITION

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"

NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(39)

FILE NAME: s12j658pro.dgn	PLOT DATE: 20-SEP-2022
PROJECT LEADER: C. COTA	DRAWN BY: M. LONGSTREET
DESIGNED BY: C. BURRALL	CHECKED BY: C. BURRALL
TH 45 PROFILE & MATERIAL TRANSITION	SHEET $S#$ OF $T#$

RETAIN EXISTING POLE
ADD 25' DEAD END ANCHOR

EXISTING AERIAL LINE
TO BE RELOCATED

AER E&T

MILLER BROOK
FLOW

EXISTING POLE AND
ANCHOR TO BE REMOVED

APPROX. EXISTING TOWN R.O.W.

11+00

TH-43
(NEBRASKA VALLEY ROAD)

12+00

13+00

14+00

GUY WIRE

COMB 145-1

TH-47
(SUGAR BUSH LANE)

CZ

PROPOSED NEW POLE
STA 11+50.00
27'-0" RIGHT

TH43 STA 12+63.95 =
TH45 STA 1+00.00

GUY WIRE

COMB 145-2

2+00

2+29

TH-45
(FALLS BROOK LANE)

RETAIN EXISTING POLE
REMOVE EXISTING ANCHOR
ADD 2, 25' DEAD END ANCHORS

N

VT STATE PLANE GRID

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

PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(39)
FILE NAME: s12j658util.dgn	PLOT DATE: 20-SEP-2022
PROJECT LEADER: C. COTA	DRAWN BY: C. BURRALL
DESIGNED BY: C. BURRALL	CHECKED BY: M. LONGSTREET
UTILITY LAYOUT	SHEET 12 OF 25

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

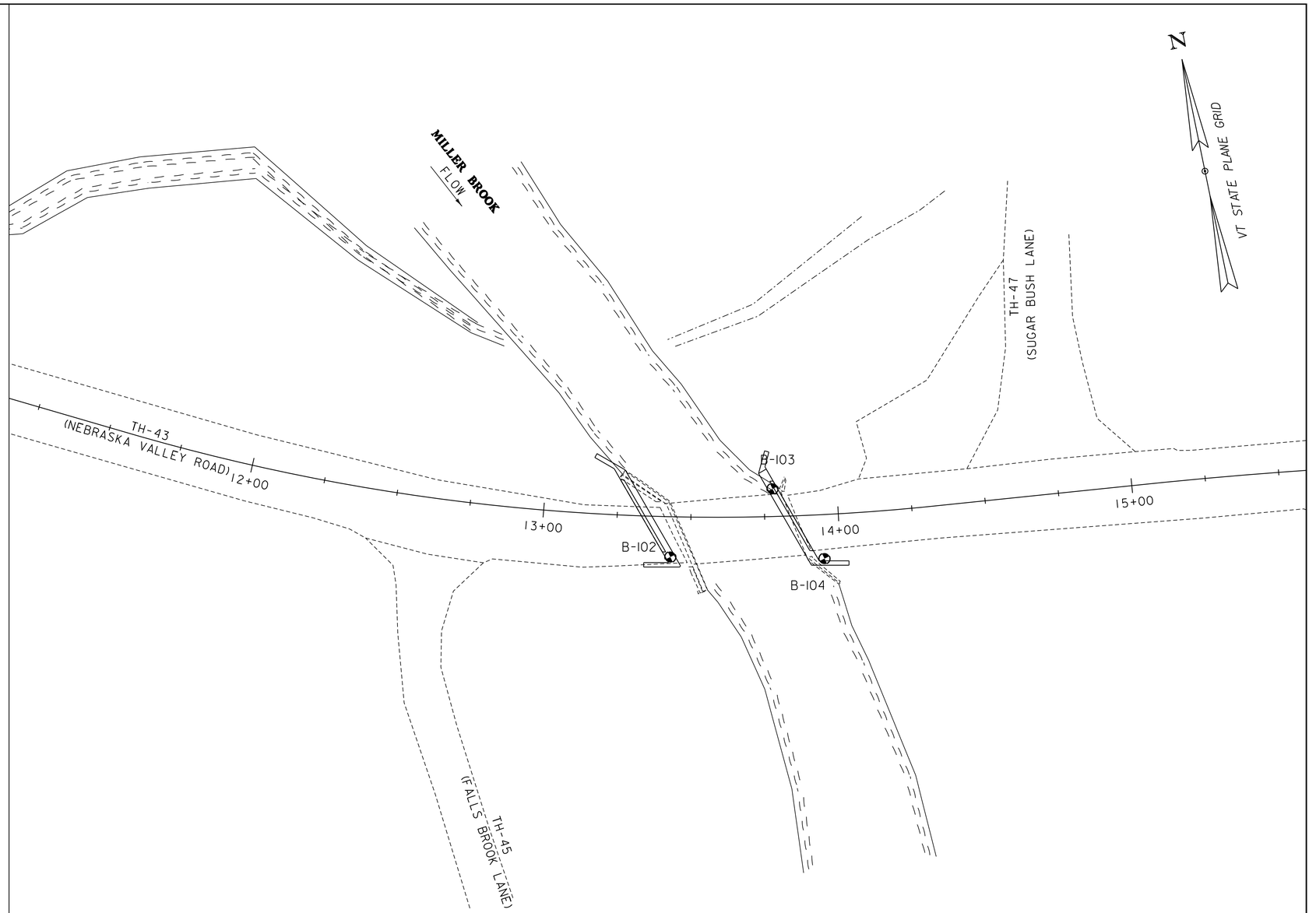
CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

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
ROD	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.

GENERAL NOTES

1. The subsurface explorations shown herein were made between 5/17/2021 and 5/19/2021 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.

BORING CHART

HOLE NO.	STATION	OFFSET	GROUND ELEVATION	ELEVATION TLOB
B-102	13+43.33	13.67 RT	752.40	698.40
B-103	13+77.93	9.39 LT	753.70	710.20
B-104	13+94.57	14.94 RT	753.70	709.70

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: s12j658bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING INFORMATION

PLOT DATE: 20-SEP-2022
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET $S#$ OF $T#$

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-102**
Page No.: 1 of 3
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/17/21 Date Finished: 5/18/21
VTSPG NAD83: N 714218.59 ft E 1571870.08 ft
Station: 13+43.33 Offset: 13.67 RT
Ground Elevation: 752.44 ft

Casing Sampler

	WASH BORE	SS
Type:		
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.

Hammer/Rod Type: Auto/NW
Rig: Stratas Star 15 $_{CE}$ = 1.44

Groundwater Observations

Date	Depth (ft)	Notes
05/17/21	8.0 after 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 %
		Visual Description:, ASPHALT (6 inches)								
		Visual Description:, medium dense, fine to coarse SAND, little Gravel, trace Silt, brn, Moist, FILL. Rec.=0.8 ft				15-12-10/6" (22)				
2.5		Visual Description:, very stiff, Clayey SILT, some Sand, trace Gravel, brn, Moist, FILL. Rec.=1.1 ft				6-11-14-19 (25)				
		Visual Description:, medium dense, fine to coarse SAND, some Silt, trace Gravel, tan, Moist, FILL. Rec.=1.1 ft				18-16-26-19 (42)				
5.0		Visual Description:, dense, fine to coarse SAND, some Gravel, trace Silt, brn, Moist, Rec.=0.9 ft								
		Dense, fine to coarse GRAVEL, and Sand, trace Silt, brn, Moist, 6.0 ft - 8.0 ft, Rec.=1.6 ft, (A-1-a)				21-20-28-73 (48)	2.6	53.6	37.6	8.8
7.5		Very dense, fine to coarse GRAVEL, some Silt, little Sand, brn, Moist, 8.0 ft - 10.0 ft, Rec.=1.1 ft, (A-2-4)				30-40-41-81 (81)	9.4	53.1	18.9	28.0
10.0		Visual Description:, dense, fine to coarse GRAVEL, some Silt, little Sand, brn, Wet, Rec.=1.1 ft				30-29-10-9 (39)				
12.5										
		Visual Description:, dense, fine to coarse GRAVEL, some Silt, little Sand, brn, Wet, Rec.=0.3 ft				70-27-18-14 (45)				
15.0										
17.5										
20.0		Medium dense, fine to coarse SAND, some Gravel, little Silt, brn, Moist, 19.0 ft - 21.0 ft, Rec.=0.8 ft, (A-2-4)				10-16-14-8 (30)	13.9	23.7	60.0	16.3
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. C_B 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.
4. Soil descriptions are based on modified burmister system when no soil laboratory testing was performed. AASHTO classifications are included where soil laboratory testing was performed.

BORING LOG 4981.00 LOGS.GPJ VERMONT AOT.GDT 8/20/21

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-102**
Page No.: 2 of 3
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/17/21 Date Finished: 5/18/21
VTSPG NAD83: N 714218.59 ft E 1571870.08 ft
Station: 13+43.33 Offset: 13.67 RT
Ground Elevation: 752.44 ft

Casing Sampler

	WASH BORE	SS
Type:		
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.

Hammer/Rod Type: Auto/NW
Rig: Stratas Star 15 $_{CE}$ = 1.44

Groundwater Observations

Date	Depth (ft)	Notes
05/17/21	8.0 after 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 %
25.0		Visual Description:, medium dense, fine to coarse SAND, some Gravel, little Silt, brn, Moist, Field Note: Some iron staining at approximately 25 feet. Rec.=0.8 ft				24-14-14-18 (28)				
27.5										
30.0		Visual Description:, Field Note: No Recovery. Rec.= 0.0 ft				100/3" (>100)				
32.5										
35.0		Very dense, fine to coarse SAND, some Gravel, some Silt, brn, Moist, 34.0 ft - 36.0 ft, Rec.=1.2 ft, (A-2-4)				25-24-42-44 (66)	13.2	22.8	55.6	21.6
37.5										
40.0		Visual Description:, very dense, fine to coarse SAND, trace Gravel, trace Silt, gray/brown, Moist, GLACIAL TILL. Rec.=0.4 ft				100/5" (>100)				
42.5										
45.0		Visual Description:, Field Note: Hard drilling started at 41 feet, refusal at approximately 44 feet.44.0 ft - 49.0 ft, WEATHERED ROCK. Possible top of bedrock surface (may have been a boulder)	C-1	20 (0)	1.6 1.7 1.5 1.5					
47.5										

EST PILE TIP ELEV 698.00

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C_B 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.
4. Soil descriptions are based on modified burmister system when no soil laboratory testing was performed. AASHTO classifications are included where soil laboratory testing was performed.

BORING LOG 4981.00 LOGS.GPJ VERMONT AOT.GDT 8/20/21

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-102**
Page No.: 3 of 3
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/17/21 Date Finished: 5/18/21
VTSPG NAD83: N 714218.59 ft E 1571870.08 ft
Station: 13+43.33 Offset: 13.67 RT
Ground Elevation: 752.44 ft

Casing Sampler

	WASH BORE	SS
Type:		
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.

Hammer/Rod Type: Auto/NW
Rig: Stratas Star 15 $_{CE}$ = 1.44

Groundwater Observations

Date	Depth (ft)	Notes
05/17/21	8.0 after 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 %
					1.7					
50.0		Visual Description:, very dense, fine to coarse SAND, trace Gravel, trace Silt, gray/brown, Moist, GLACIAL TILL. Rec.=0.2 ft				100/2" (>100)				
52.5										
55.0		54.0 ft - 59.0 ft, Light gray, Fine-grained SCHIST, little quartzite bedding, with joints spaced 4 to 6 inches apart, moderately dipping. Moderately hard to hard, Very slightly weathered, slightly fractured	C-2	96.7 (90.8)	2.6 2.3 2.2 2.7 3.5					
57.5										
60.0		59.0 ft - 64.0 ft, Light gray, Fine-grained SCHIST, little quartzite bedding, with joints spaced 2 to 6 inches apart, moderately dipping. Moderately hard to hard, Very slightly weathered	C-3	100 (71.7)	2.8 4.3 4.1 3.1 2					
62.5										
		Hole stopped @ 64.0 ft								
65.0										
67.5										
70.0										

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C_B 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.
4. Soil descriptions are based on modified burmister system when no soil laboratory testing was performed. AASHTO classifications are included where soil laboratory testing was performed.

BORING LOG 4981.00 LOGS.GPJ VERMONT AOT.GDT 8/20/21

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING LOGS 1

PLOT DATE: 20-SEP-2022
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET $S#$ OF $T#$

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-103**
Page No.: 1 of 2
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/18/21 Date Finished: 5/18/21
VTSPG NAD83: N 714230.76 ft E 1571909.92 ft
Station: 13+77.93 Offset: 9.39 LT
Ground Elevation: 753.69 ft

Casing Sampler		
Type:	WASH BORE	SS
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/NW	
Rig: Stratas Star 15	$_{CE}$ = 1.44	

Groundwater Observations		
Date	Depth (ft)	Notes
05/18/21	4.0 after drilling	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Description:, medium dense, fine to coarse SAND, little Gravel, trace Silt, very few Organic particles, brn, Moist, FILL. Rec.=0.3 ft	2-7-12-10 (21)				
2.5		Visual Description:, medium dense, fine to coarse SAND, little Gravel, trace Silt, very few Organic particles, brn, Moist, FILL. Rec.=1.1 ft	5-6-6-6 (12)				
5.0		Loose, fine to coarse GRAVEL, and Sand, trace Silt, brn, Wet, 4.0 ft - 6.0 ft, FILL. Rec.=0.3 ft (A-1-a)	10-3-3-2 (6)	11.5	54.2	36.3	9.5
7.5		Visual Description:, loose, fine to coarse GRAVEL, and Sand, trace Silt, brn, Wet, FILL. Rec.=0.5 ft	5-1-1-1 (2)				
		Loose, fine to coarse SAND, and Gravel, little Silt, brn, Wet, 8.0 ft - 10.0 ft, FILL. Rec.=0.4 ft, (A-1-b)	8-3-5-8 (8)	13.4	38.2	48.2	13.6
10.0		Visual Description:, loose, fine to coarse SAND, and Gravel, little Silt, brn, Wet, FILL. Rec.=0.4 ft	5-4-2-1 (6)				
		Visual Description:, loose, fine to coarse SAND, some Gravel, trace Silt, Dark gray, Wet, FILL. Rec.=0.8 ft. Field Note: Smells oily.					
12.5		Visual Description:, dense, fine to coarse SAND, some Gravel, trace Silt, gray/brown, Wet, Rec.=0.8 ft. Field Note: Coarse gravel from approximately 12-12.5 feet. Slight oil smell to approximately 13 feet.	8-28-14-13 (42)				
15.0		Dense, fine to coarse SAND, and Gravel, little Silt, brn, Wet, 14.0 ft - 16.0 ft, Rec.=1.1 ft, (A-1-b)	18-19-19-17 (38)	11.9	37.9	48.2	13.9
17.5							
20.0		Visual Description:, loose, fine to coarse GRAVEL, some Sand, trace Silt, brn, Wet, Rec.=0.1 ft	9-4-3-5 (7)				
22.5							

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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4. Soil descriptions are based on modified burmister system when no soil laboratory testing was performed. AASHTO classifications are included where soil laboratory testing was performed.

ABUT 2 BOT ELEV 742.00

BORING LOG 4981.00 LOGS.GPJ VERMONT AOT.GDT 8/20/21

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-103**
Page No.: 2 of 2
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/18/21 Date Finished: 5/18/21
VTSPG NAD83: N 714230.76 ft E 1571909.92 ft
Station: 13+77.93 Offset: 9.39 LT
Ground Elevation: 753.69 ft

Casing Sampler		
Type:	WASH BORE	SS
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/NW	
Rig: Stratas Star 15	$_{CE}$ = 1.44	

Groundwater Observations		
Date	Depth (ft)	Notes
05/18/21	4.0 after drilling	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
25.0		Loose, fine to coarse SILT, and Sand, trace Gravel, gray/brown, Moist, 24.0 ft - 26.0 ft, Rec.=1.0 ft, (A-4). Field Note: Some iron staining at approximately 24 and 25 feet.	5-5-5-6 (10)	24.7	0.8	35.8	63.4
27.5							
30.0		Visual Description:, dense, fine to coarse SAND, some Gravel, trace Silt, brn, Moist, Rec.=1.0 ft	13-16-28-24 (44)				
32.5							
35.0		Very dense, fine to coarse GRAVEL, and Sand, little Silt, brn, Moist, 34.0 ft - 36.0 ft, Rec.=1.0 ft, (A-1-b)	35-24-28-28 (52)	11.3	45.5	41.0	13.5
37.5							
40.0		Visual Description:, very dense, fine to coarse SAND, trace Gravel, trace Silt, gray, Moist, GLACIAL TILL. Rec.=0.3 ft	100/4" (>100)				
42.5							
		Hole stopped @ 43.5 ft Split spoon refusal. Refusal is assumed bedrock.					
45.0							
47.5							

Notes:
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EST PILE TIP ELEV 709.00

BORING LOG 4981.00 LOGS.GPJ VERMONT AOT.GDT 8/20/21

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING LOGS 2

PLOT DATE: 20-SEP-2022
DRAWN BY: C. BURRALL
CHECKED BY: M. LONGSTREET
SHEET $S#$ OF $T#$

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-104**
Page No.: 1 of 3
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/19/21 Date Finished: 5/19/21
VTSPG NAD83: N 714203.02 ft E 1571919.99 ft
Station: 13+94.57 Offset: 14.94 RT
Ground Elevation: 753.69 ft

Casing Sampler	WASH BORE	SS
Type:		
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/NW	
Rig: Stratas Star 15	$_{CE}$ = 1.44	

Groundwater Observations

Date	Depth (ft)	Notes
05/19/21	8.0 after drilling	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Description:, ASPHALT (6 inches)							
		Visual Description:, fine to coarse SAND, little Silt, trace Gravel, brn, Moist, FILL. Rec.=0.9 ft			10-10-10/6" (20)				
2.5		Medium dense, fine to coarse SAND, little Silt, little Gravel, brn, Moist, 2.0 ft - 4.0 ft, FILL. Rec.=1.1 ft, (A-2-4)			10-7-10-9 (17)	9.6	18.3	53.3	18.4
5.0		Visual Description:, loose, fine to coarse SAND, little Silt, little Gravel, brn, Moist, FILL. Rec.=0.9 ft			5-5-5-3 (10)				
7.5		Loose, fine to coarse SILT, some Sand, some Gravel, brn, Moist, 6.0 ft - 8.0 ft FILL. Rec.=1.2 ft, (A-4)			3-4-3-4 (7)	14.4	25.0	25.4	49.6
		Visual Description:, loose, fine to coarse SILT, some Sand, some Gravel, brn, Wet, FILL. Rec.=0.6 ft			5-7-8-12 (15)				
10.0		Medium dense, fine to coarse GRAVEL, some Silt, some Sand, brn, Wet, 10.0 ft - 12.0 ft, Rec.=1.3 ft, (A-2-4)			20-11-11-16 (22)	19.4	52.3	20.2	27.5
12.5									
15.0		Visual Description:, medium dense, fine to coarse GRAVEL, some Silt, some Sand, brn, Wet, Rec.=0.6 ft			15-12-8-9 (30)				
17.5									
20.0		Medium dense, fine to coarse SAND, some Silt, trace Gravel, brn, Moist, 19.0 ft - 21.0 ft, Rec.=0.8 ft, (A-2-4)			6-5-6-5 (11)	25.0	0.1	68.3	31.6
22.5									

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EST PILE TIP ELEV 709.00

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

BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-104**
Page No.: 2 of 3
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/19/21 Date Finished: 5/19/21
VTSPG NAD83: N 714203.02 ft E 1571919.99 ft
Station: 13+94.57 Offset: 14.94 RT
Ground Elevation: 753.69 ft

Casing Sampler	WASH BORE	SS
Type:		
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/NW	
Rig: Stratas Star 15	$_{CE}$ = 1.44	

Groundwater Observations

Date	Depth (ft)	Notes
05/19/21	8.0 after drilling	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
25.0									
27.5									
30.0		Hard, SILT, little Gravel, trace Sand, gray/brown, Wet, 29.0 ft - 30.5 ft, Rec.=1.1 ft, (A-4)			12-15-16-12 (31)	32.3	0.1		99.9
		Visual Description:, medium dense, fine to coarse GRAVEL, some Sand, trace Silt, gray/brown, Wet, Rec.=1.1 ft							
32.5									
35.0									
37.5		Visual Description:, very dense, fine to coarse SAND, some Gravel, little Silt, brn, Moist, Rec.=1.2 ft			33-28-50-100/3" (78)				
40.0		Visual Description:, very dense, fine to coarse SAND, little Gravel, trace Silt, gray, Moist, GLACIAL TILL. Rec.=1.2 ft							
42.5									
45.0		44.0 ft - 45.0 ft, Medium-grained QUARTZITE, horizontal joints. Hard to very hard, Fresh, slightly fractured	C-1	8					
		Visual Description:, Field note: Core barrel was pulled at approximately 45 ft and found to be completely worn down. The driller roller bitted from 45 ft to 50 ft and confirmed material was consistently dense.							
47.5									

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BORING LOG

STOWE
BO 1446(39)
Nebraska Valley Road Bridge No. 48

Boring No.: **B-104**
Page No.: 3 of 3
Pin No.: 12j658
Checked By: L. Tracy

Boring Crew: P. LaBossiere, New England Boring Contractors
Date Started: 5/19/21 Date Finished: 5/19/21
VTSPG NAD83: N 714203.02 ft E 1571919.99 ft
Station: 13+94.57 Offset: 14.94 RT
Ground Elevation: 753.69 ft

Casing Sampler	WASH BORE	SS
Type:		
I.D.:	4 in	2 in
Hammer Wt:	300	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/NW	
Rig: Stratas Star 15	$_{CE}$ = 1.44	

Groundwater Observations

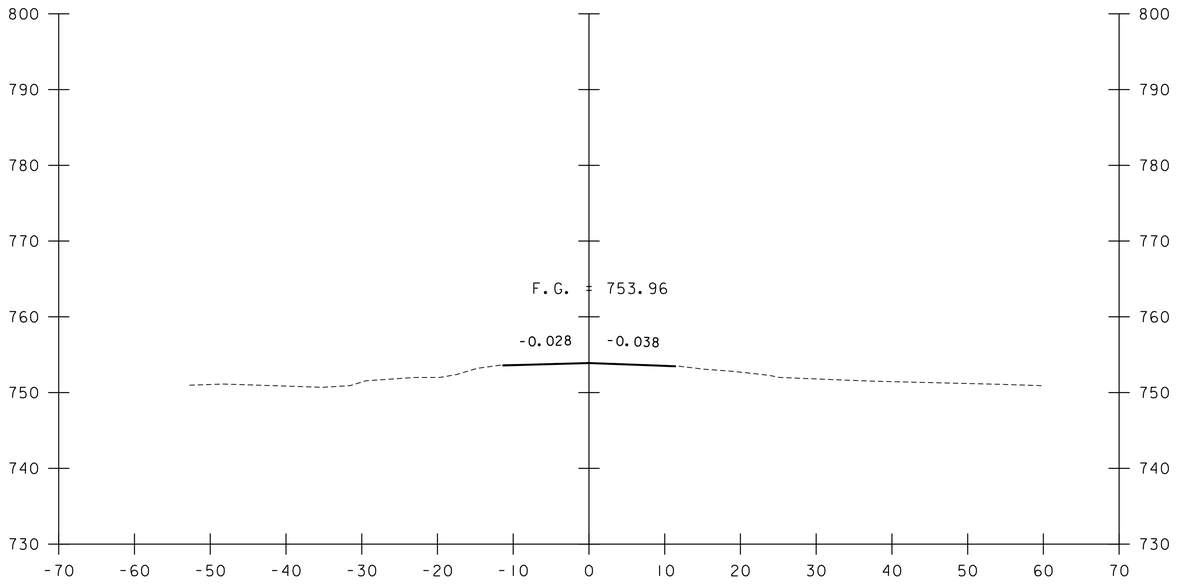
Date	Depth (ft)	Notes
05/19/21	8.0 after drilling	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50.0		Hole stopped @ 50.0 ft							
52.5									
55.0									
57.5									
60.0									
62.5									
65.0									
67.5									
70.0									

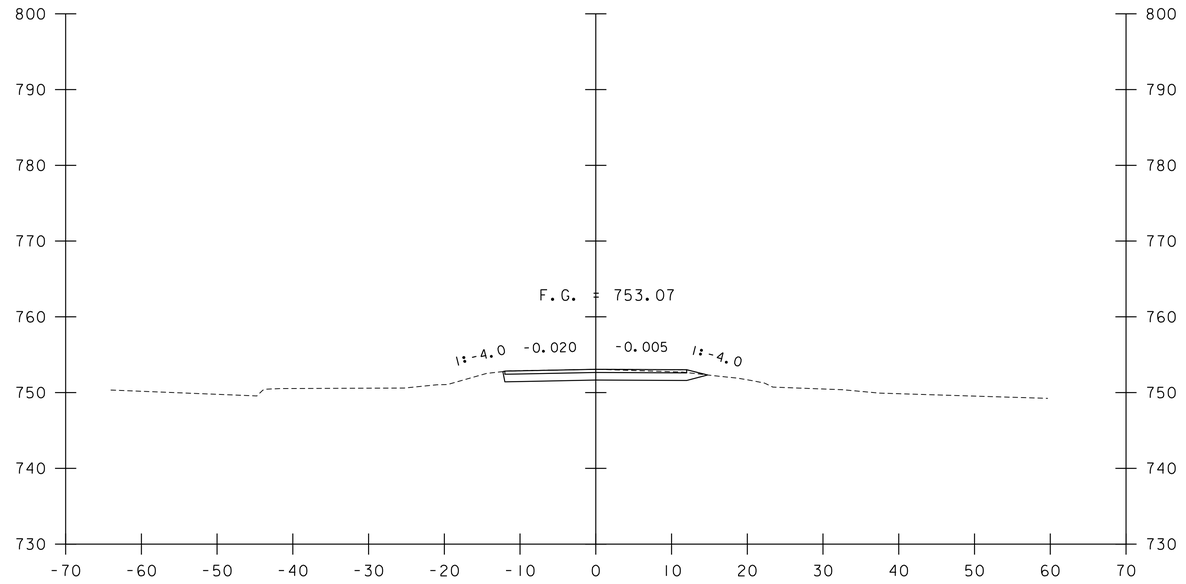
Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CB the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.
4. Soil descriptions are based on modified burmister system when no soil laboratory testing was performed. AASHTO classifications are included where soil laboratory testing was performed.

BORING LOG 4981.00 LOGS.GPJ \ VERMONT AOT.GDT 8/20/21

PROJECT NAME:	STOWE
PROJECT NUMBER:	BO 1446(39)
FILE NAME: sl2j658bor.dgn	PLOT DATE: 20-SEP-2022
PROJECT LEADER: C. COTA	DRAWN BY: C. BURRALL
DESIGNED BY: C. BURRALL	CHECKED BY: M. LONGSTREET
BORING LOGS 3	SHEET $S#$ OF $T#$



11+25



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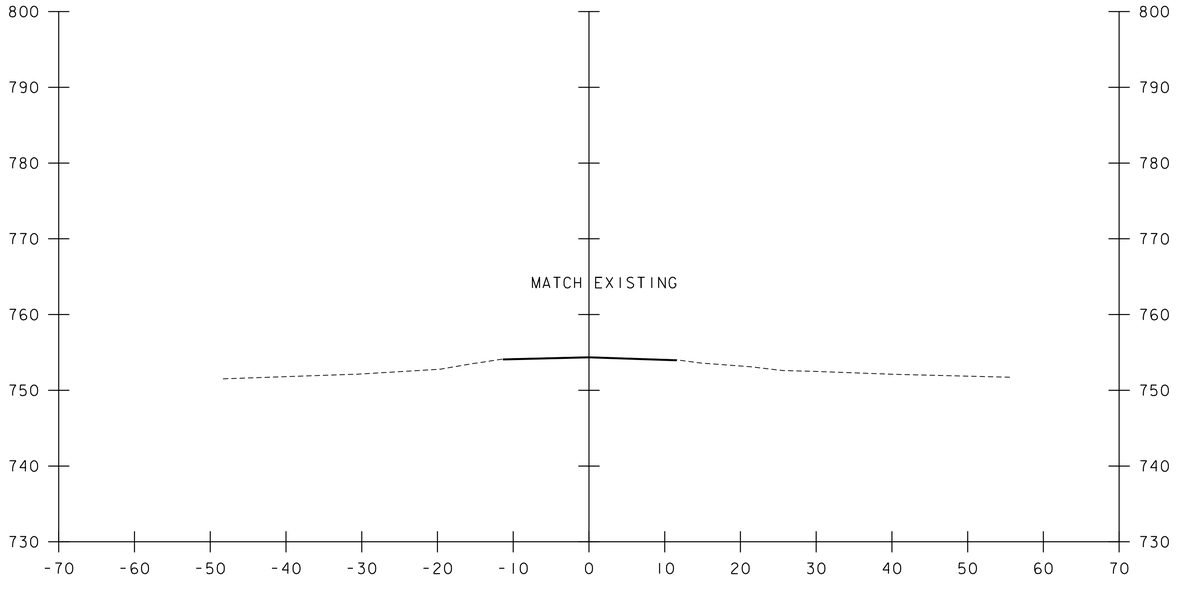

11+00

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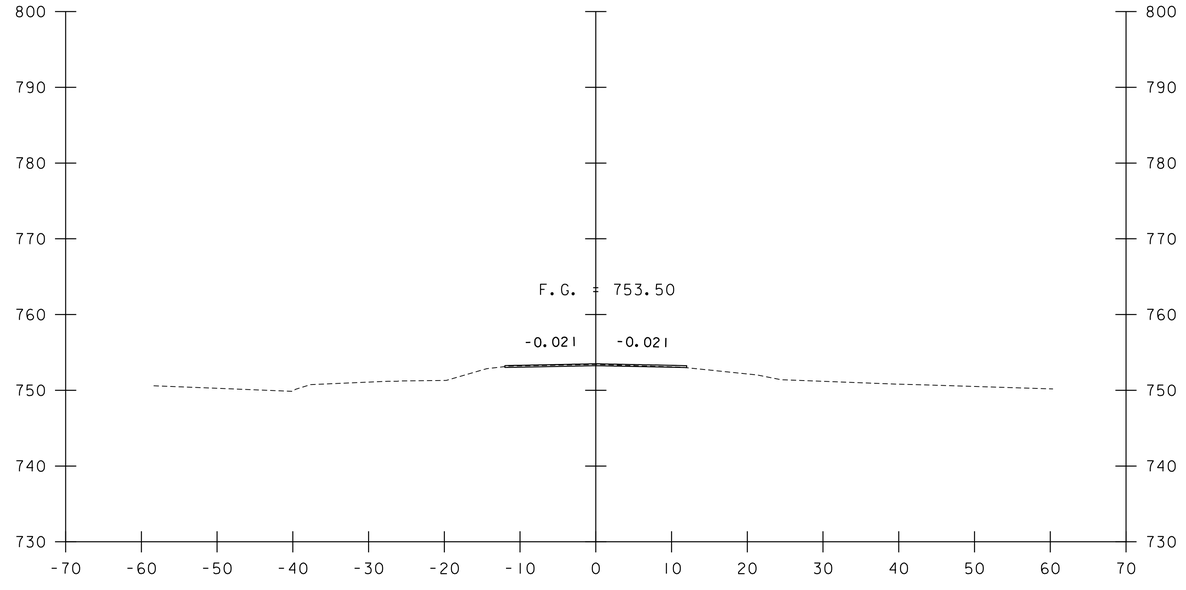


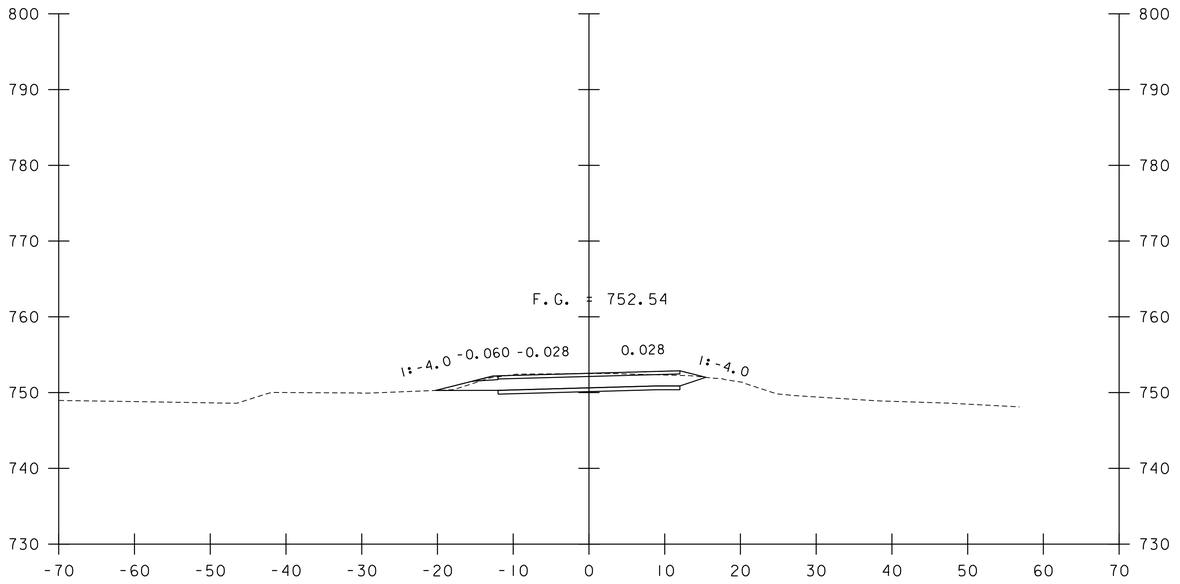
11+50

STA. 11+00 TO STA. 11+75

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 1

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



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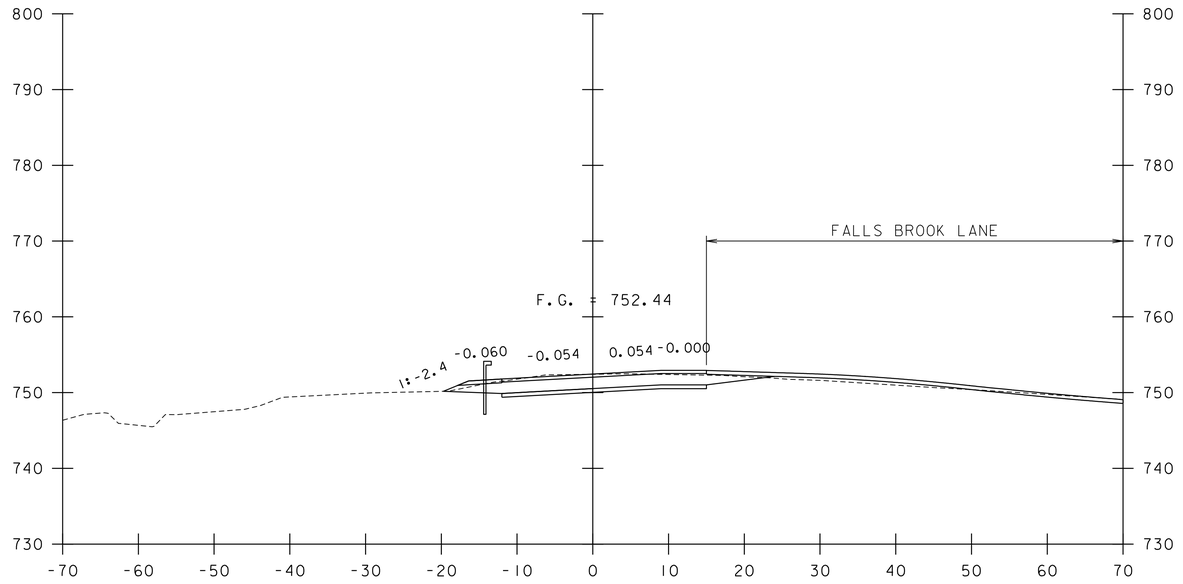

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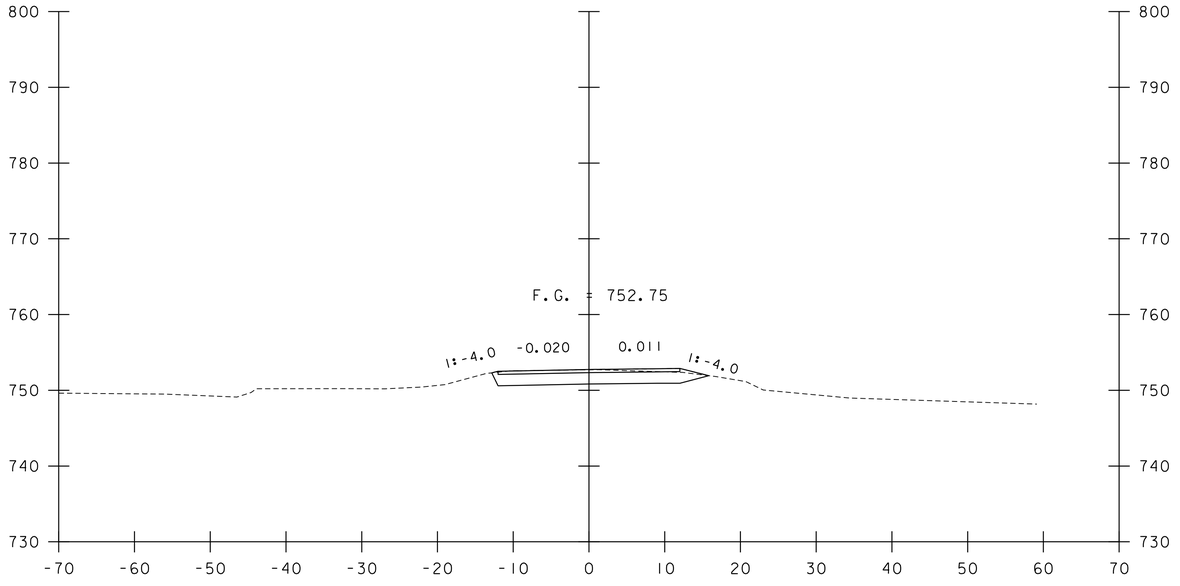

12+00
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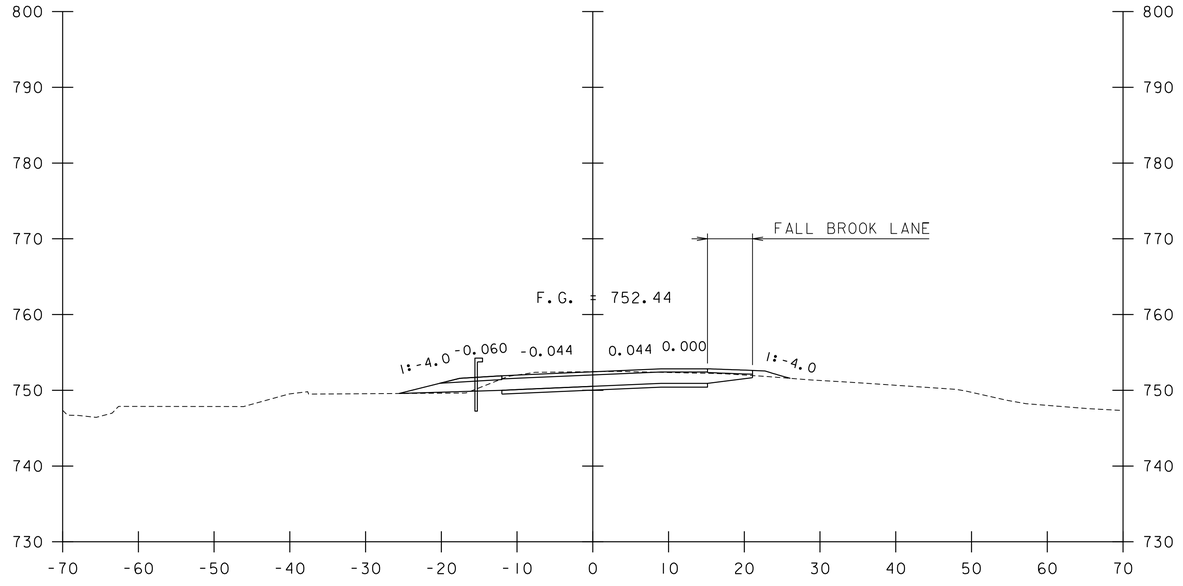


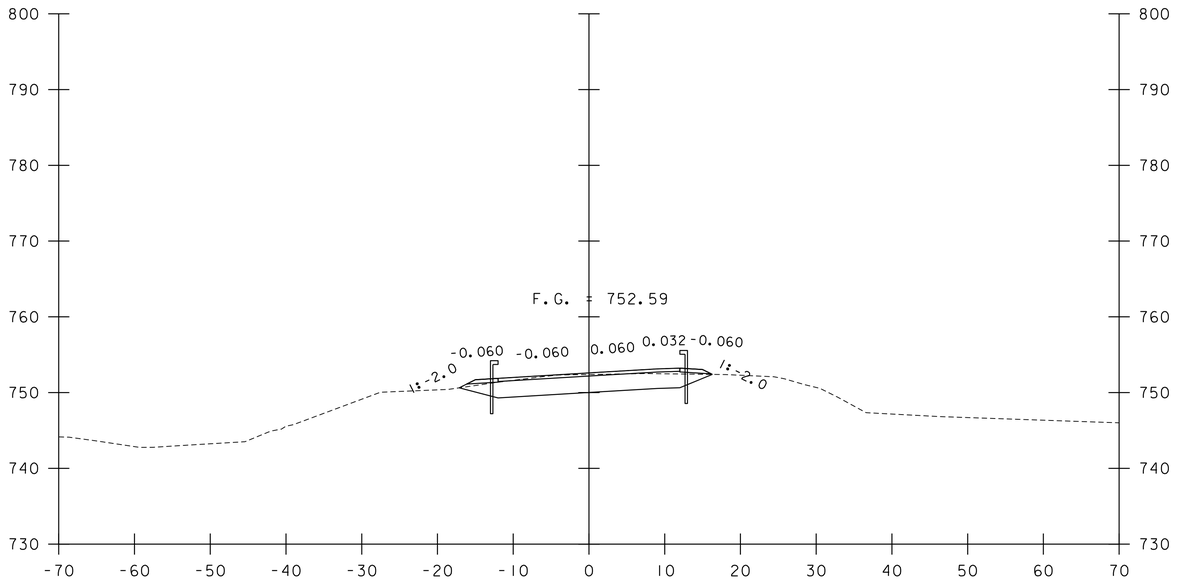
12+50

STA. 12+00 TO STA. 12+66

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 2

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



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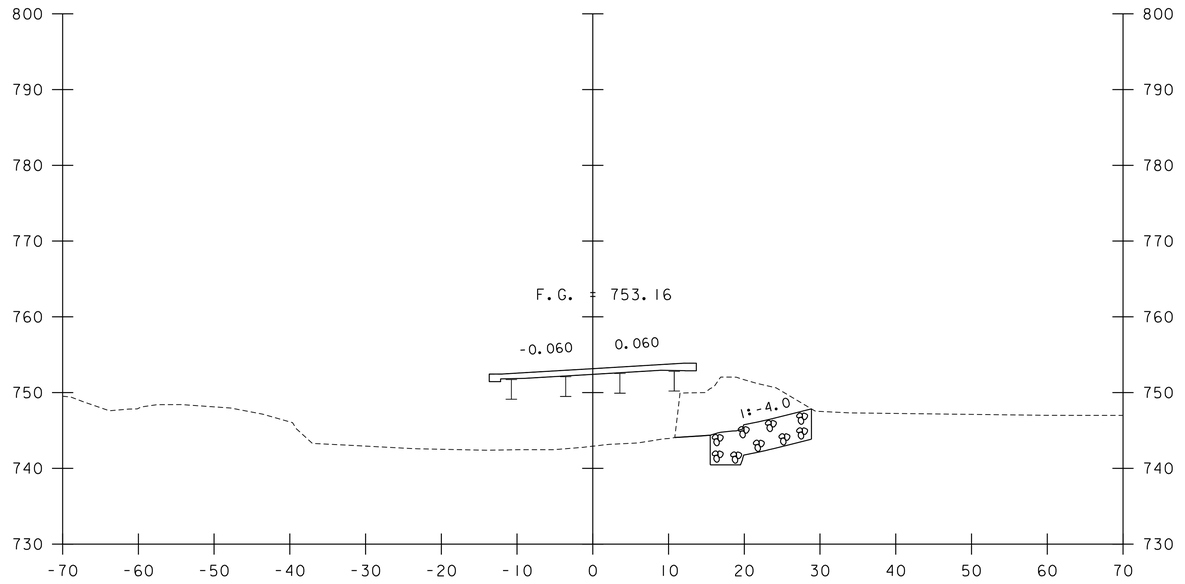

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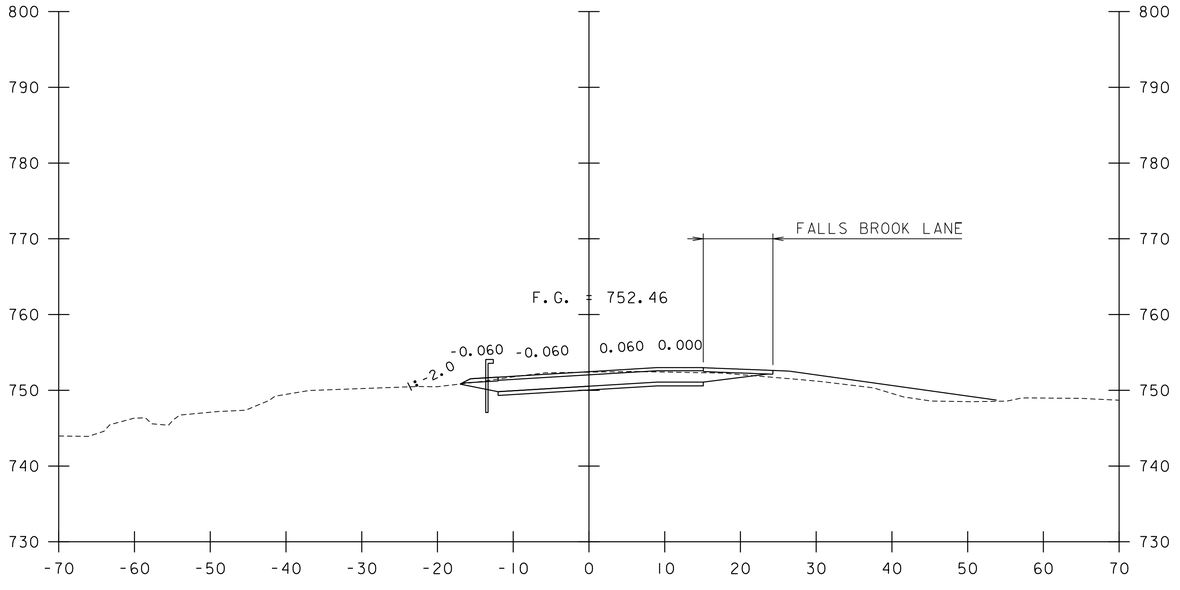
BEGIN BRIDGE 13+34.41



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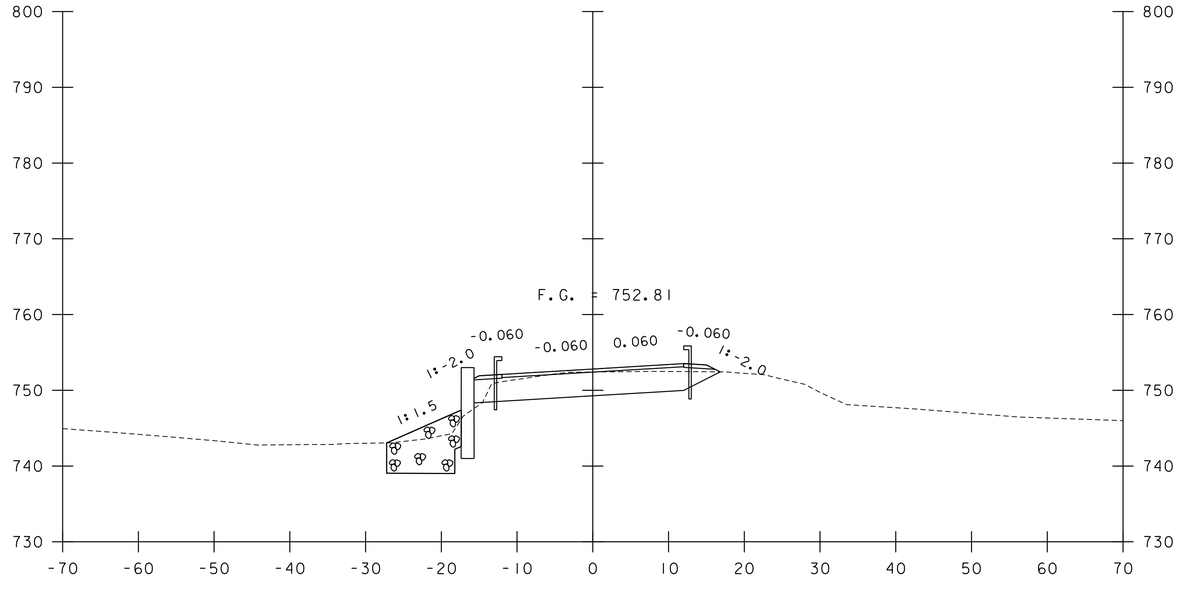


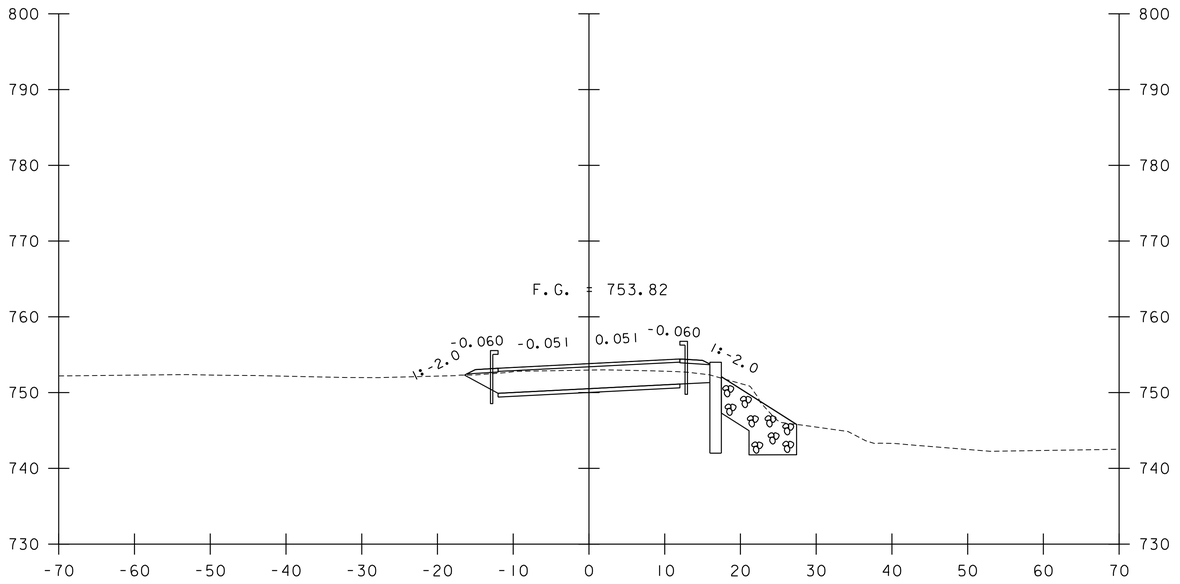
13+23

STA. 12+75 TO STA. 13+50

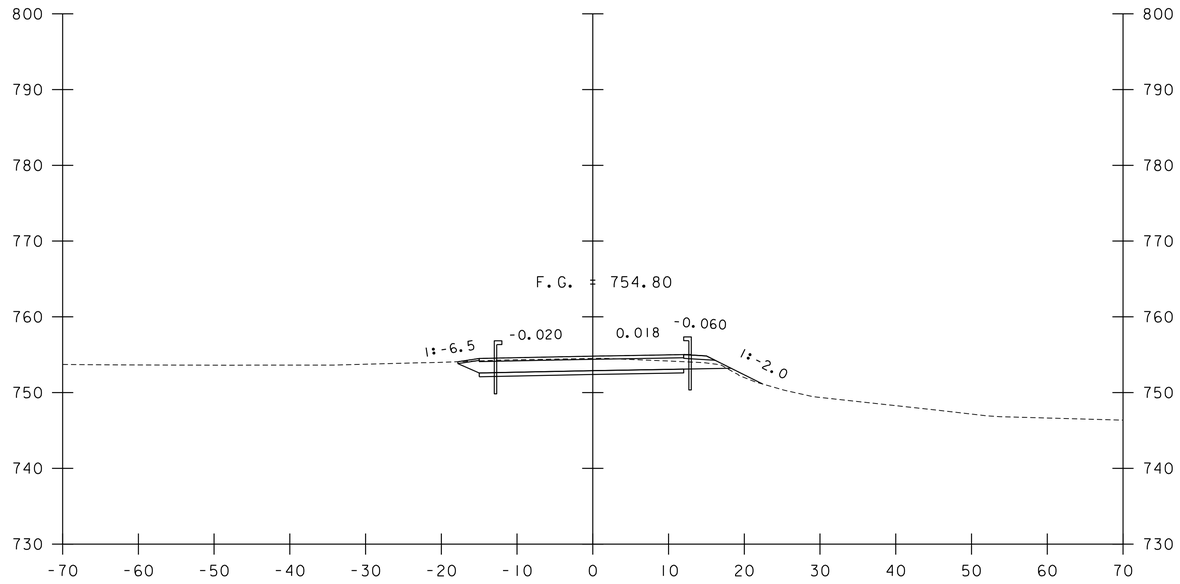
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 3

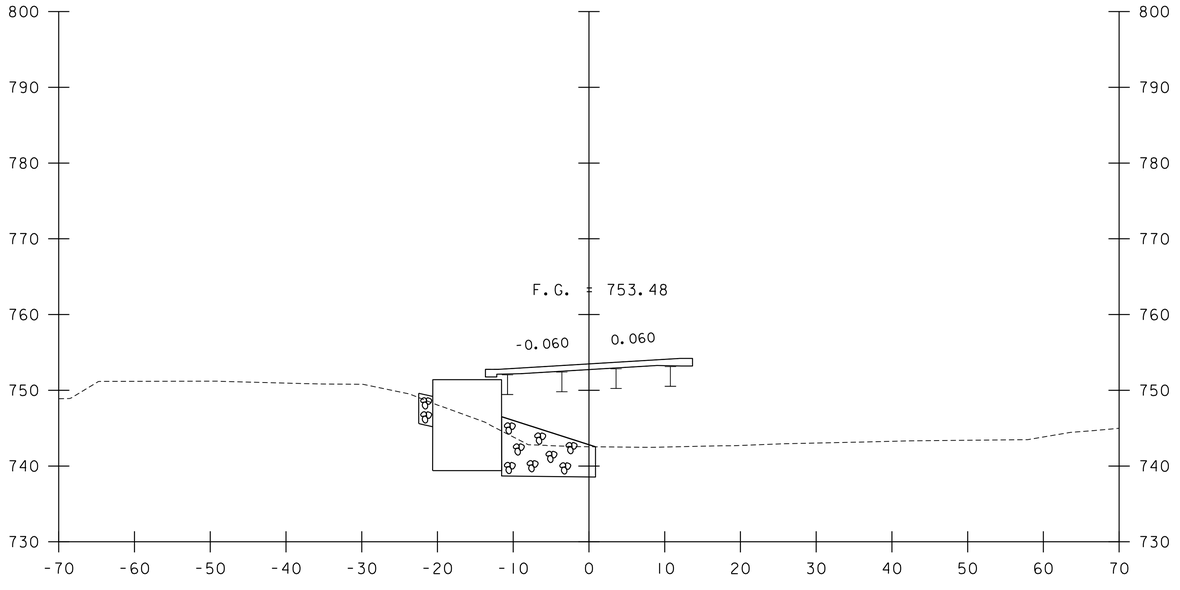
PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



14+00

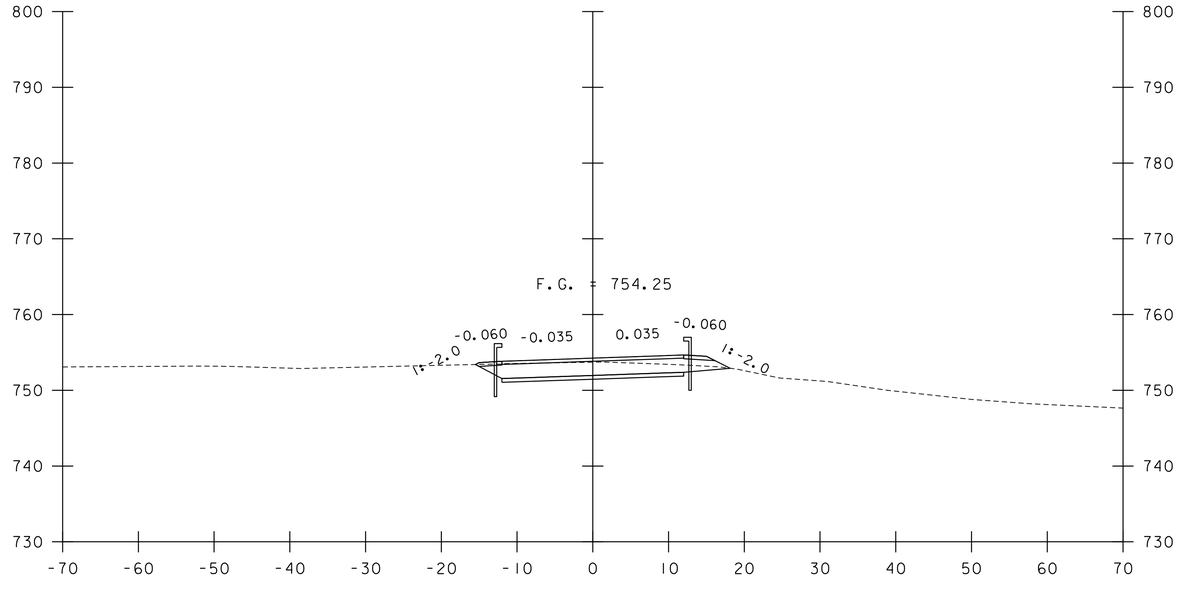


14+50



13+75

END BRIDGE 13+83.58



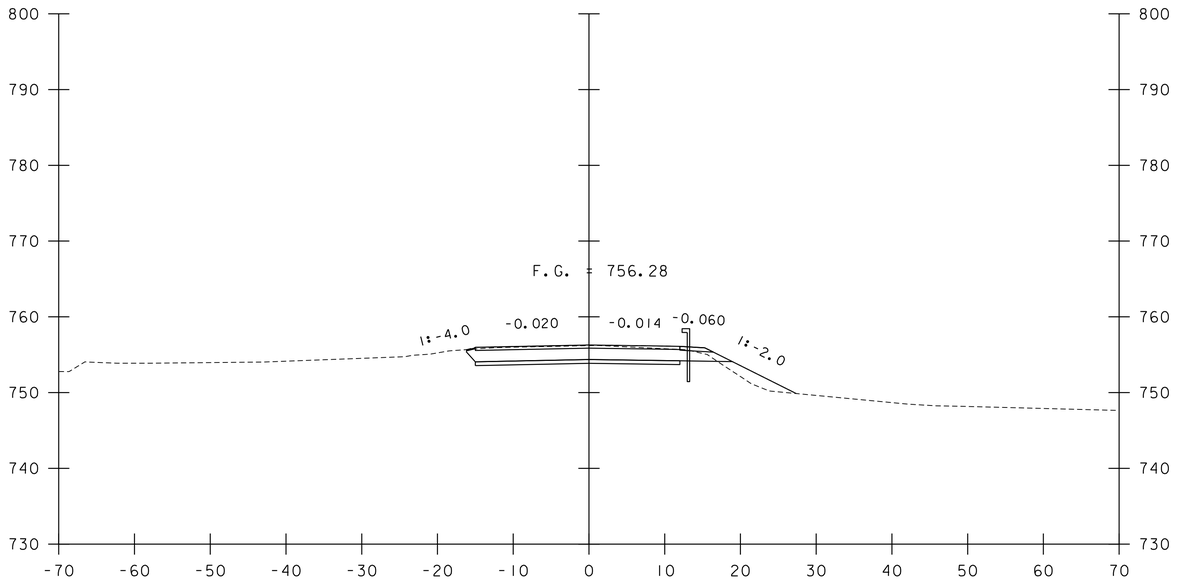
14+25

STA. 13+75 TO STA. 14+50

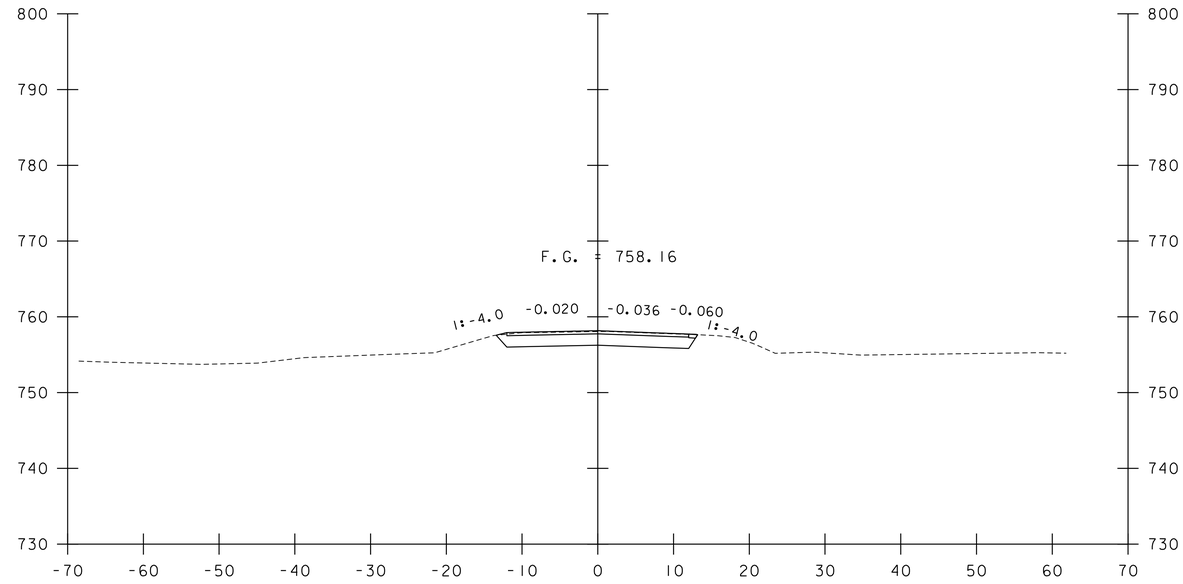
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 4

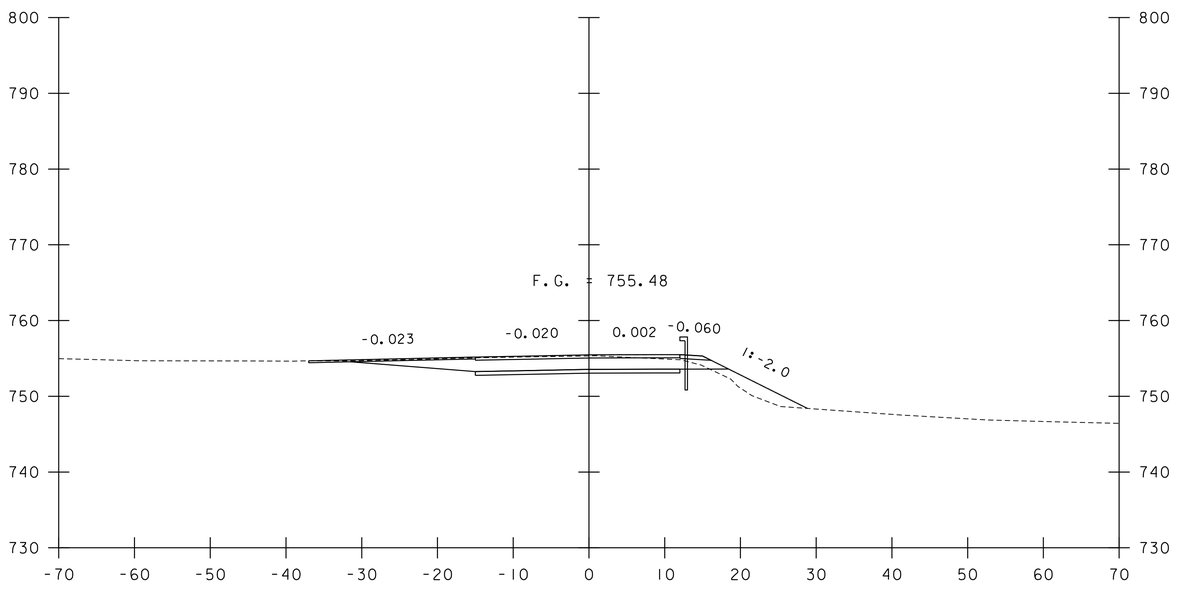
PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



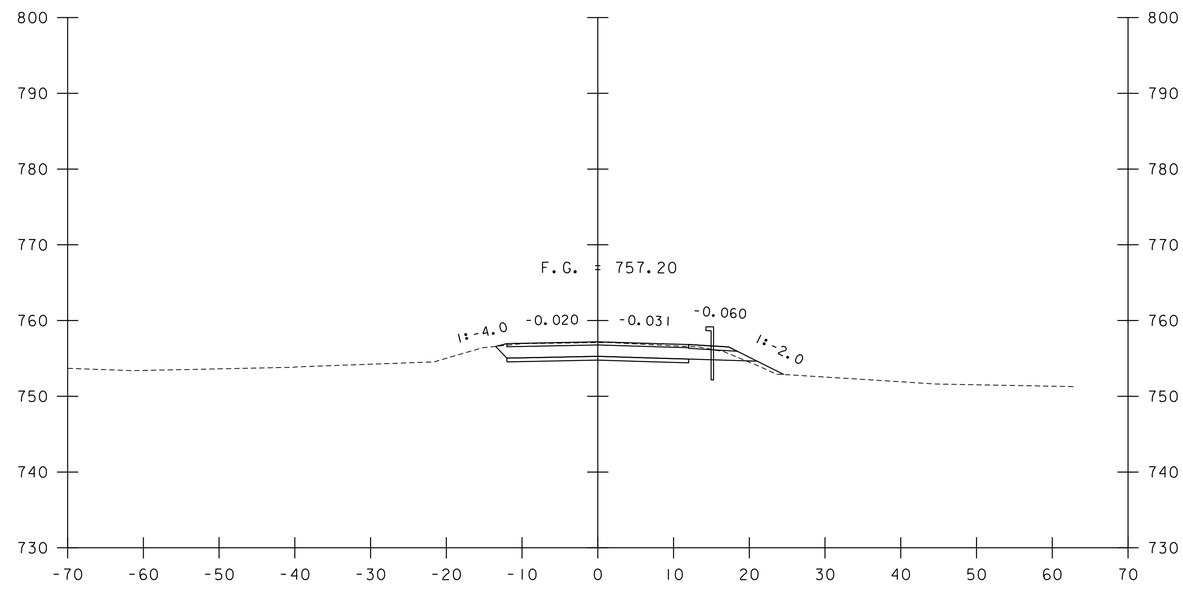
15+00



15+50
END PROJECT



14+75



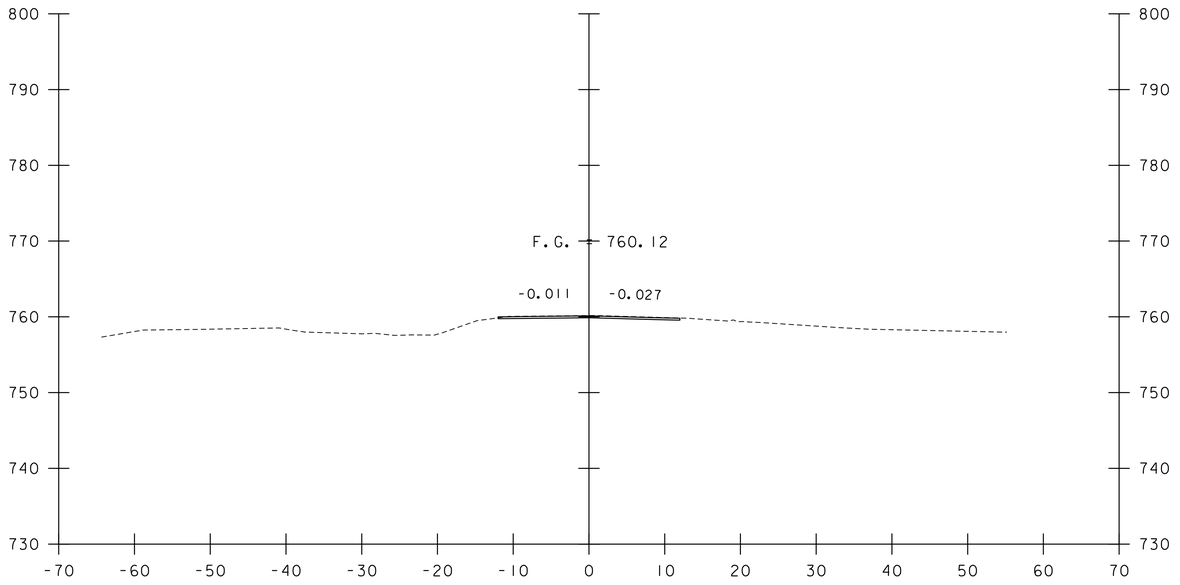
15+25

STA. 14+75 TO STA. 15+50

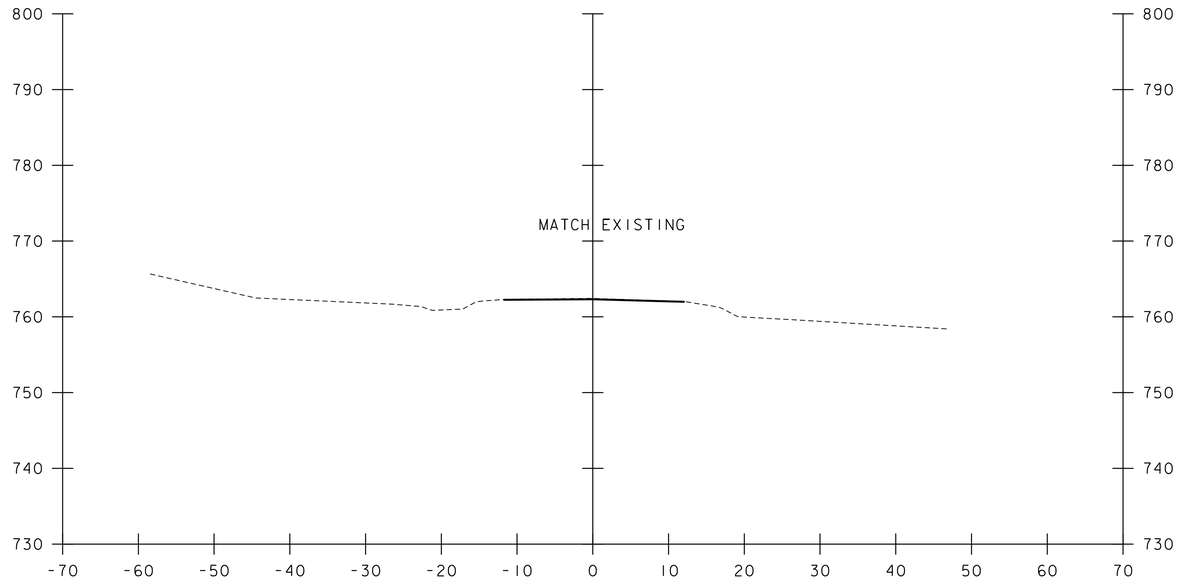
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 5

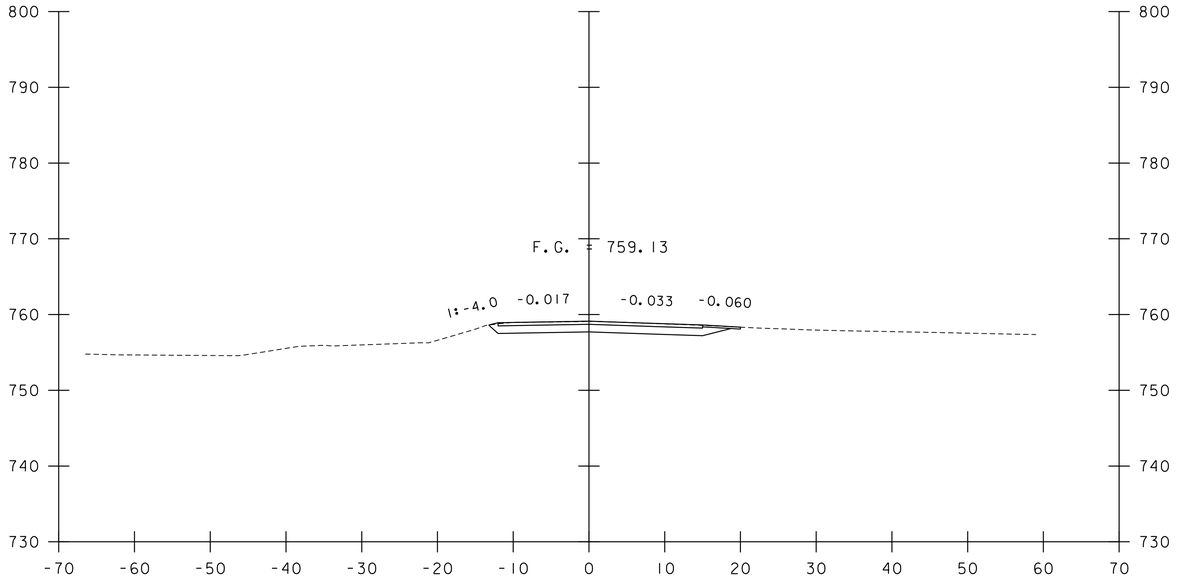
PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



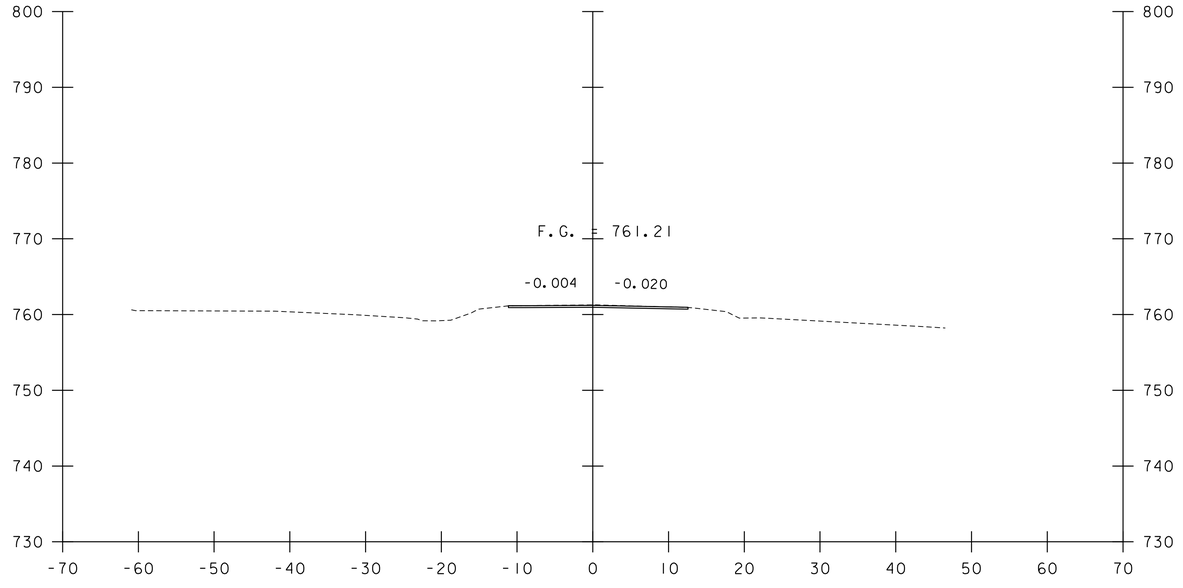
16+00



16+50
END APPROACH



15+75



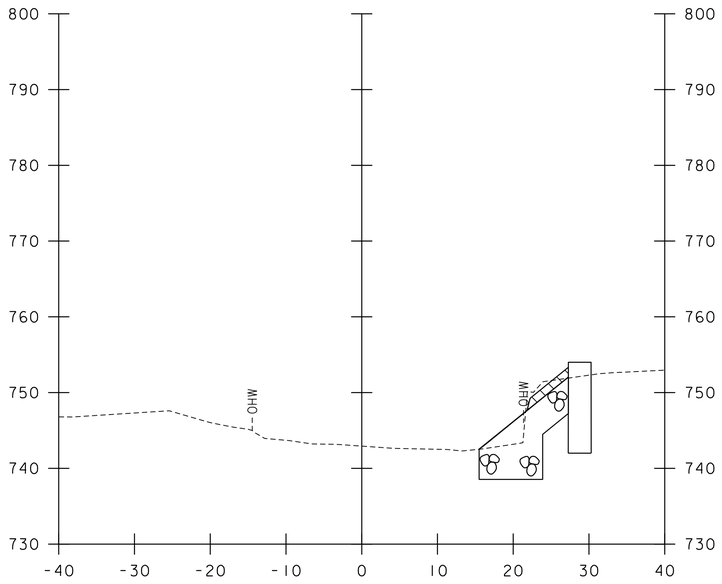
16+25

STA. 15+75 TO STA. 16+50

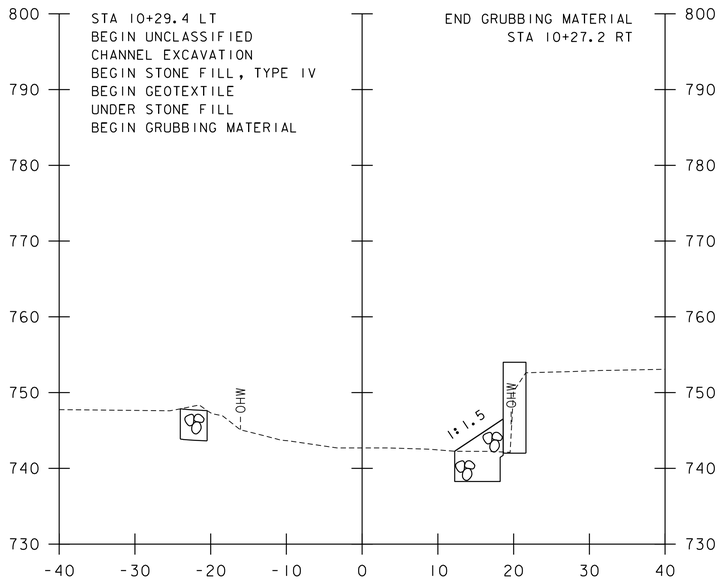
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 43 CROSS SECTIONS 6

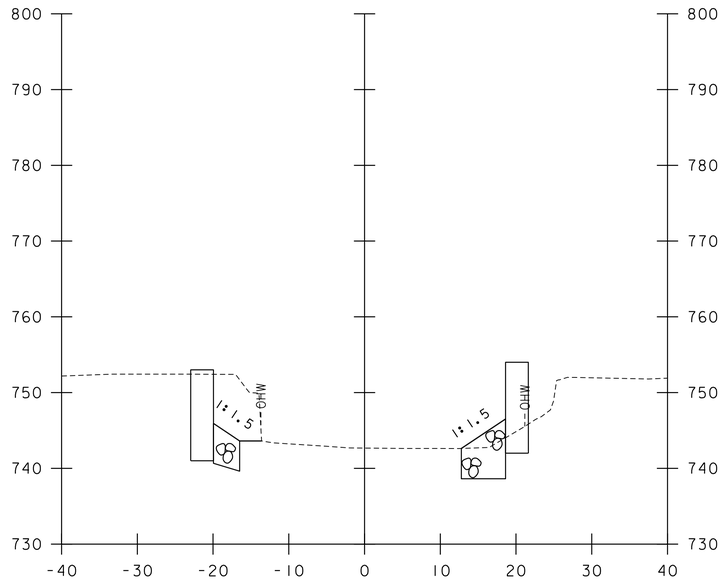
PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



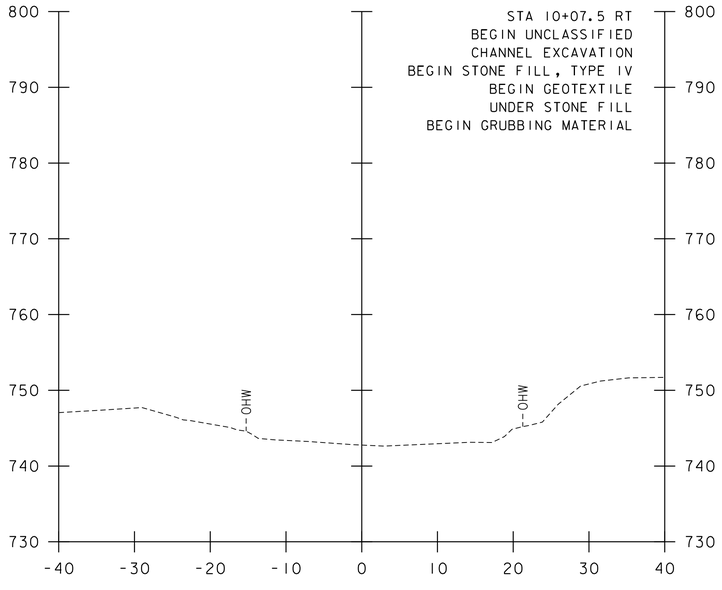
10+15



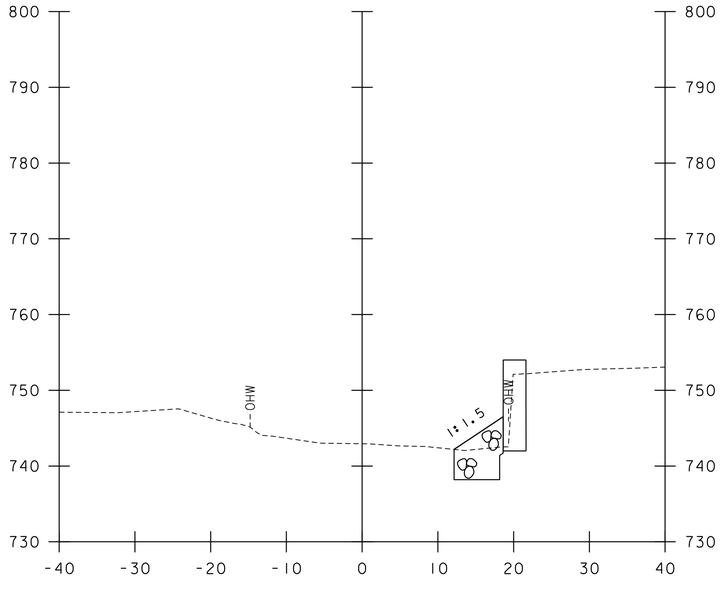
10+30



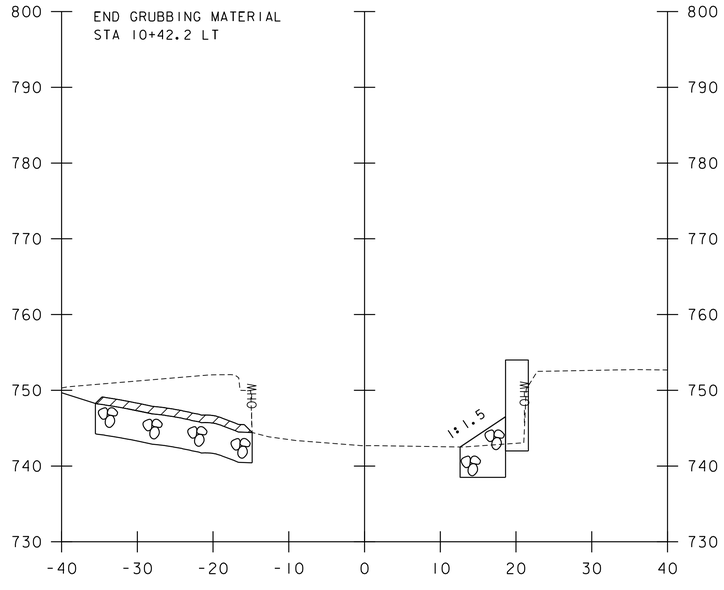
10+50



10+00



10+20



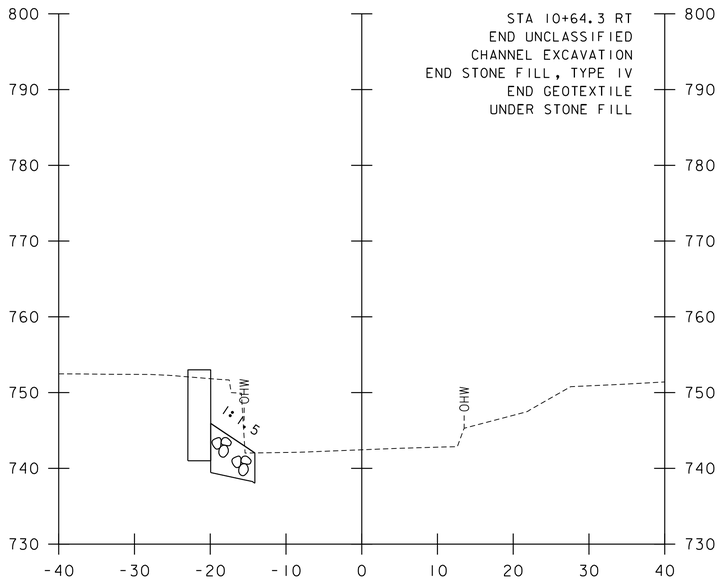
10+40

STA. 10+00 TO STA. 10+50

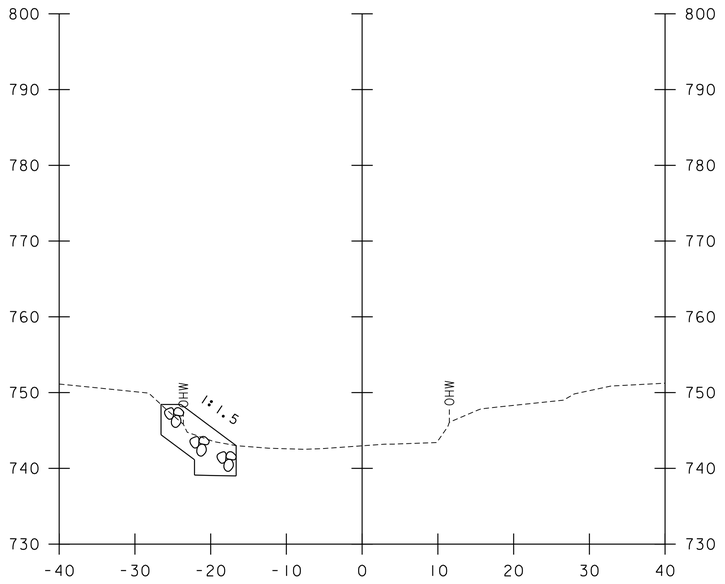
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 1

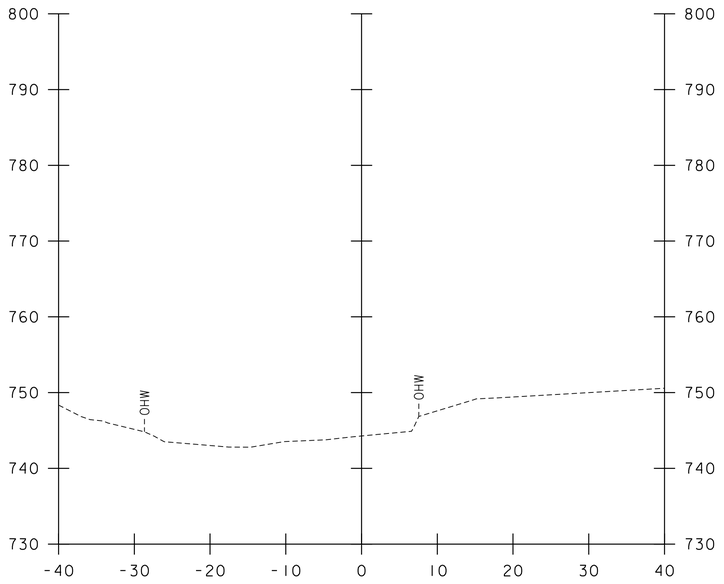
PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$



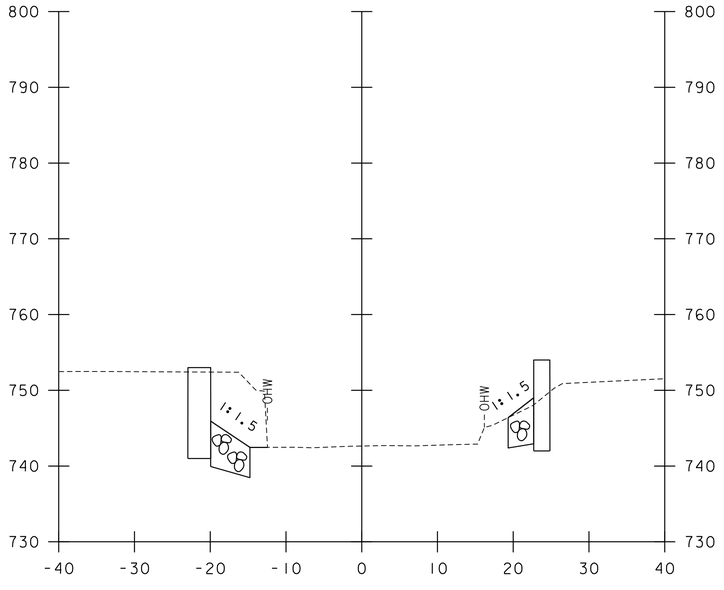
10+70



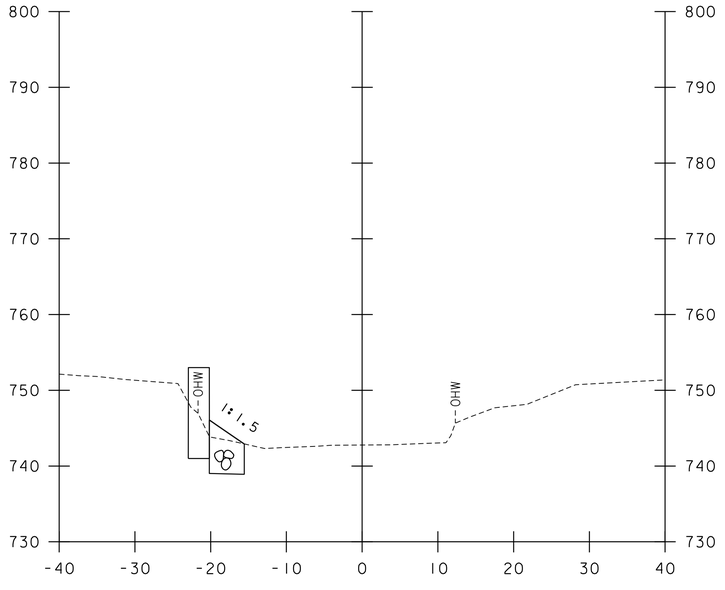
10+90



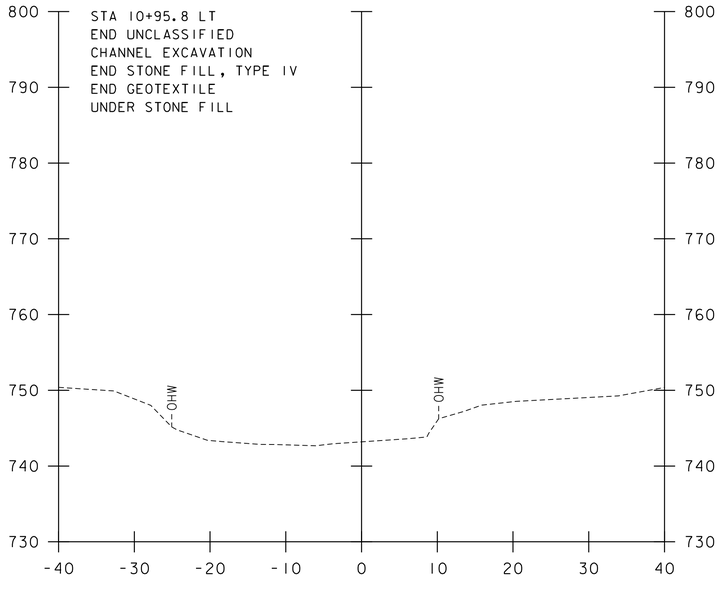
11+25



10+60



10+80



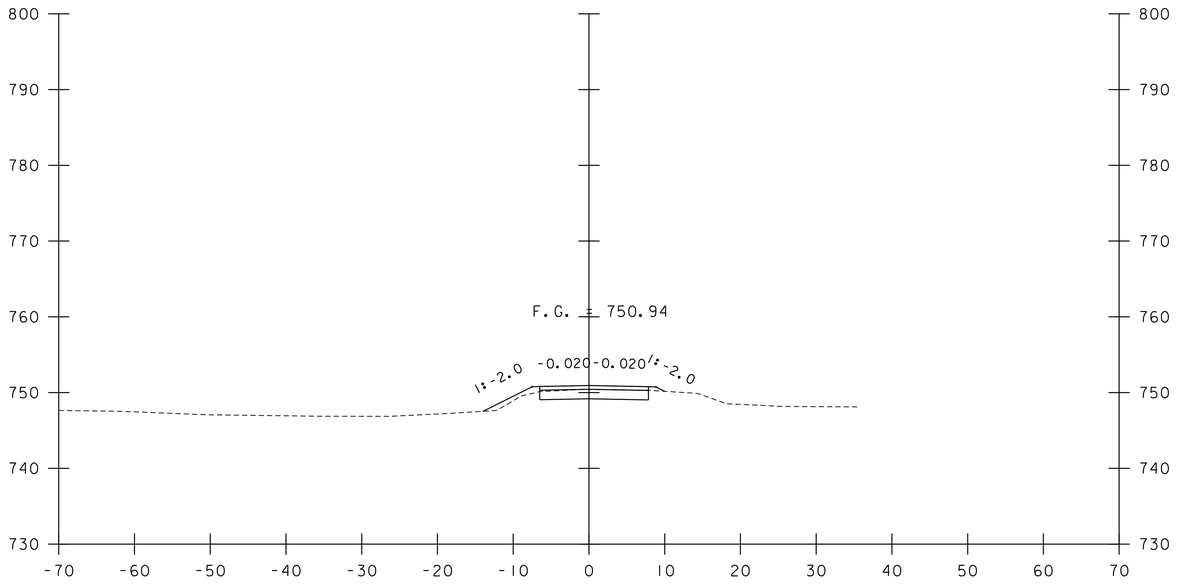
11+00

STA. 10+60 TO STA. 11+25

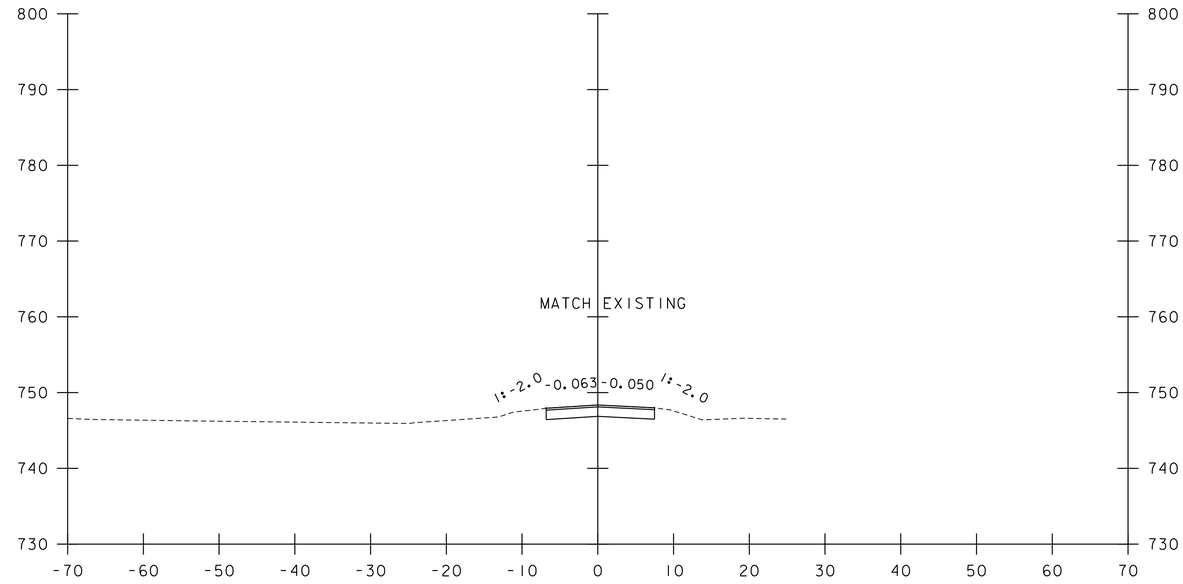
PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 2

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$

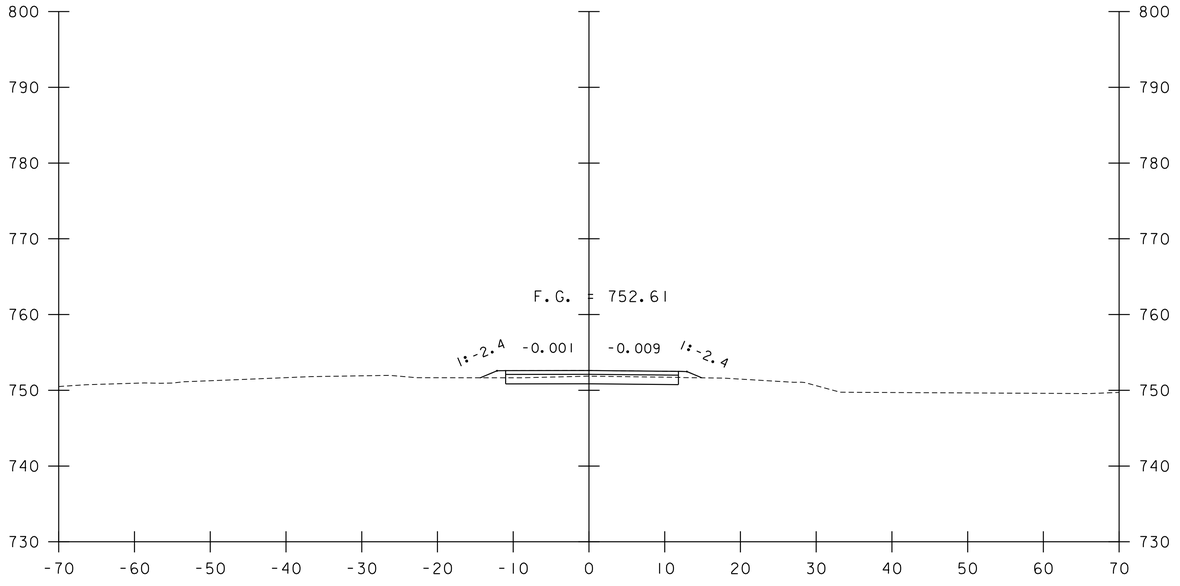


1+50



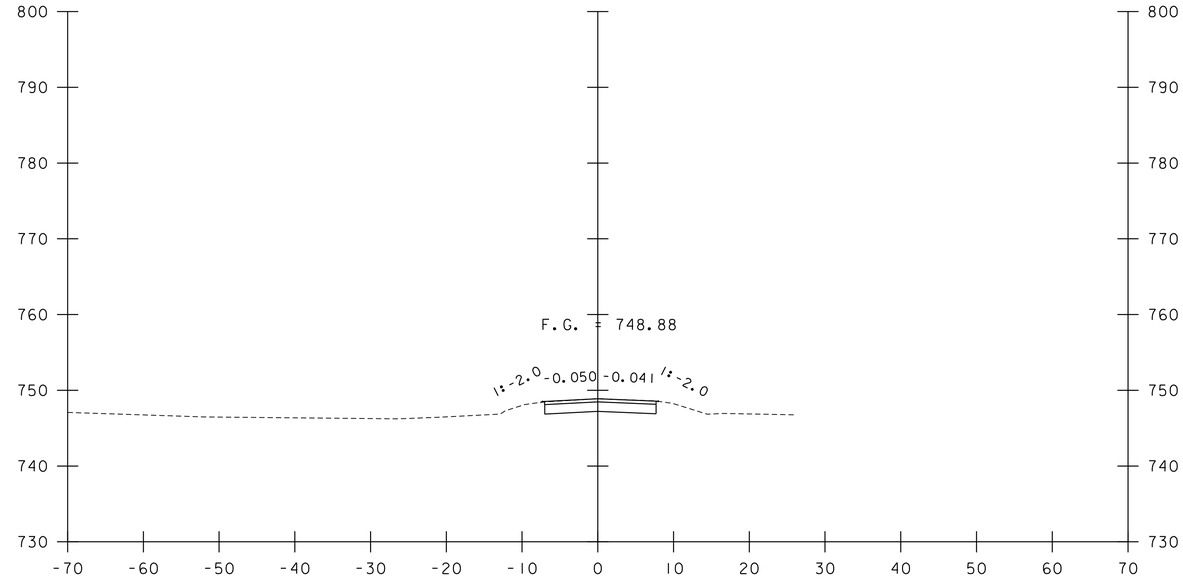
1+85

END TH 45 APPROACH



1+25

BEGIN TH 45 APPROACH
STA 1+15.00



1+75

STA. 1+25 TO STA. 1+85

PROJECT NAME: STOWE
PROJECT NUMBER: BO 1446(39)

FILE NAME: sl2j658xs.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 45 CROSS SECTIONS

PLOT DATE: 20-SEP-2022
DRAWN BY: M. LONGSTREET
CHECKED BY: C. BURRALL
SHEET $S#$ OF $T#$