

REVIEWER NOTES:  
 HYDRAULICS NOT BACK YET  
 ROW WILL BE REQUIRED  
 UTILITY RELOCATION REQUIRED  
 DETOUR WILL BE TOWN RESPONSIBILITY

# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

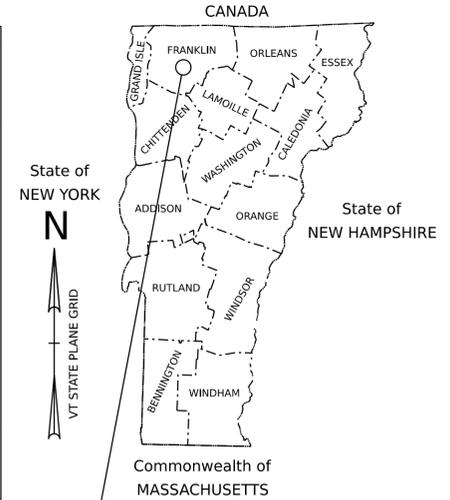
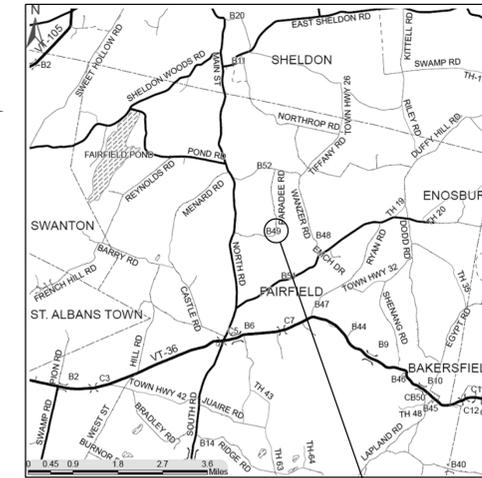
TOWN OF FAIRFIELD  
 COUNTY OF FRANKLIN

ROUTE NO : TOWN HIGHWAY 29      BRIDGE NO : 49

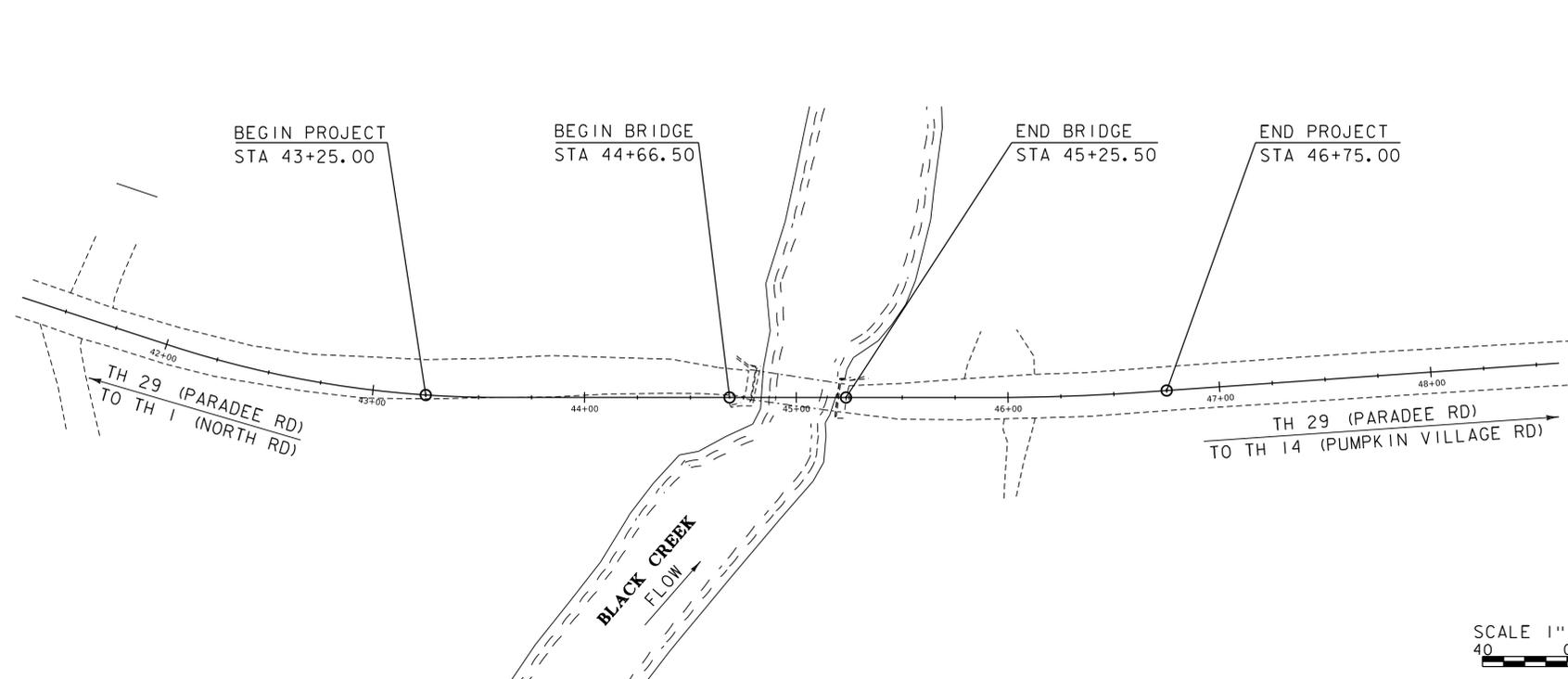
PROJECT LOCATION : IN THE TOWN OF FAIRFIELD ON TOWN HIGHWAY 29 (PARADEE RD) OVER BLACK CREEK APPROXIMATELY 0.7 MILES EAST OF INTERSECTION WITH TOWN HIGHWAY 1 (NORTH ROAD)

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGE NO. 49 ON TH29 IN FAIRFIELD, OVER BLACK CREEK ON NEW ALIGNMENT, WITH RELATED CHANNEL AND ROADWAY WORK.

LENGTH OF STRUCTURE : 59.00 FEET.  
 LENGTH OF ROADWAY : 291.00 FEET.  
 LENGTH OF PROJECT : 350.00 FEET.



FAIRFIELD  
 BO 1448 (46)

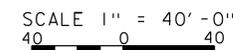


CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

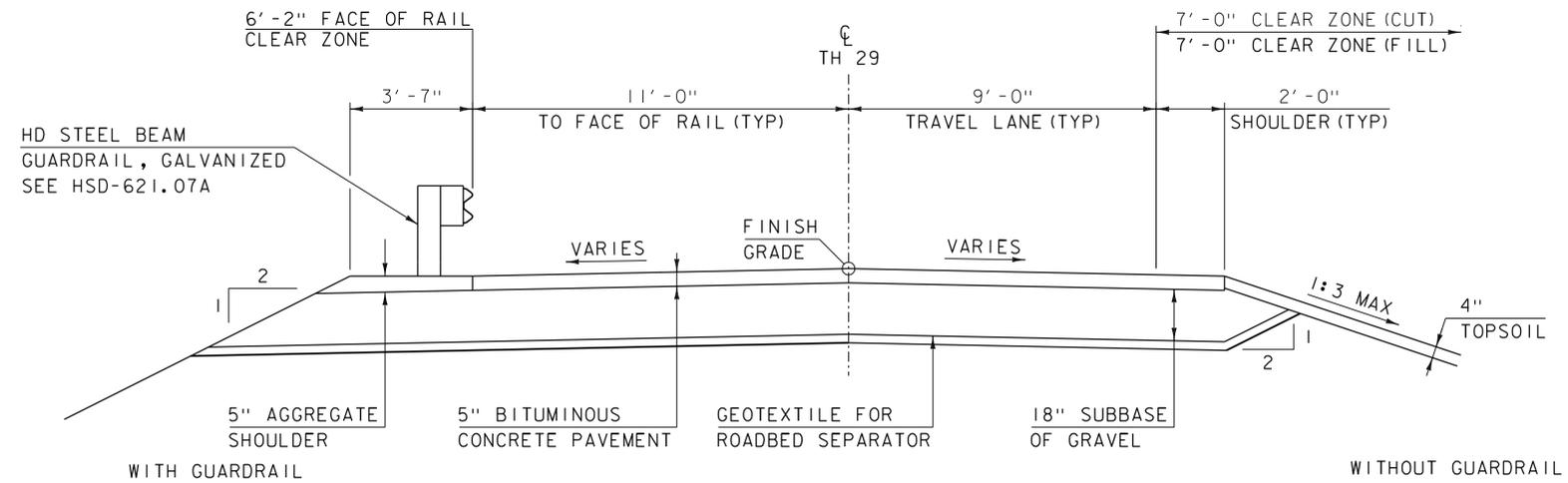
QUALITY ASSURANCE PROGRAM : LEVEL	2
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	06/2021
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (11)

**PRELIMINARY PLANS**  
**15-FEB-2024**

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER :	ROB YOUNG, P. E.
PROJECT NAME :	FAIRFIELD
PROJECT NUMBER :	BO 1448 (46)
SHEET 1 OF 24 SHEETS	

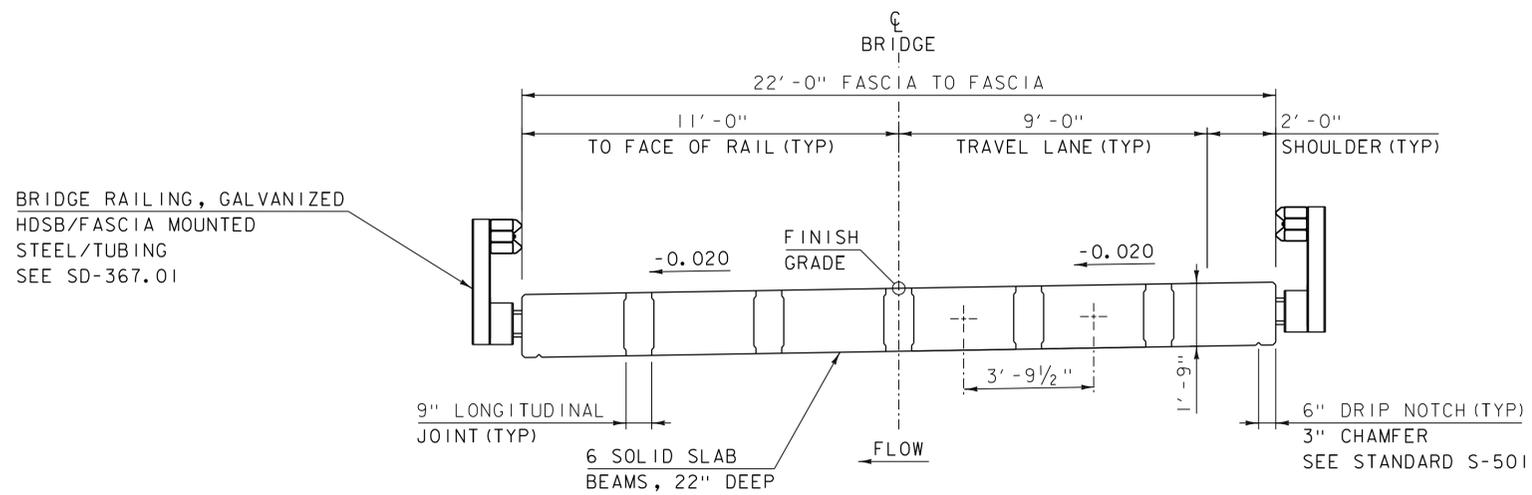






**ROADWAY TYPICAL SECTION**

SCALE 3/8" = 1'-0"



**BRIDGE TYPICAL SECTION**

SCALE 3/8" = 1'-0"

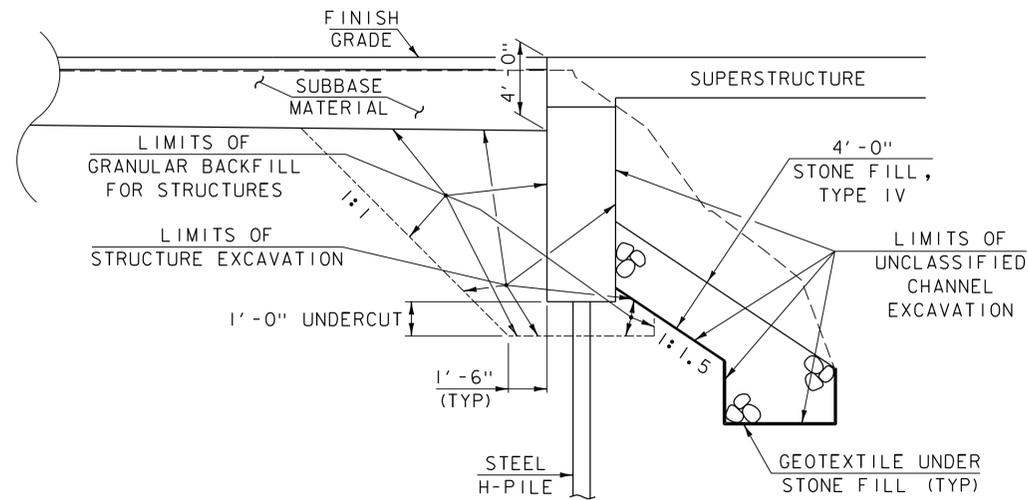
**MATERIAL TOLERANCES**  
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

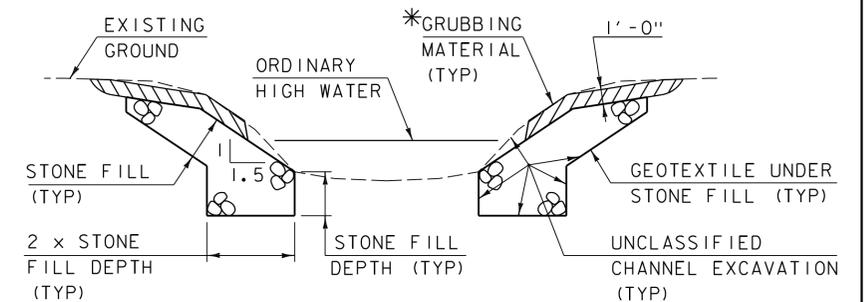
PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)

FILE NAME: sl2j624typ.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
TYPICAL SECTIONS I

PLOT DATE: 15-FEB-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: C. FRENCH  
SHEET 3 OF 24



ABUTMENT EARTHWORK TYPICAL SECTION  
NOT TO SCALE

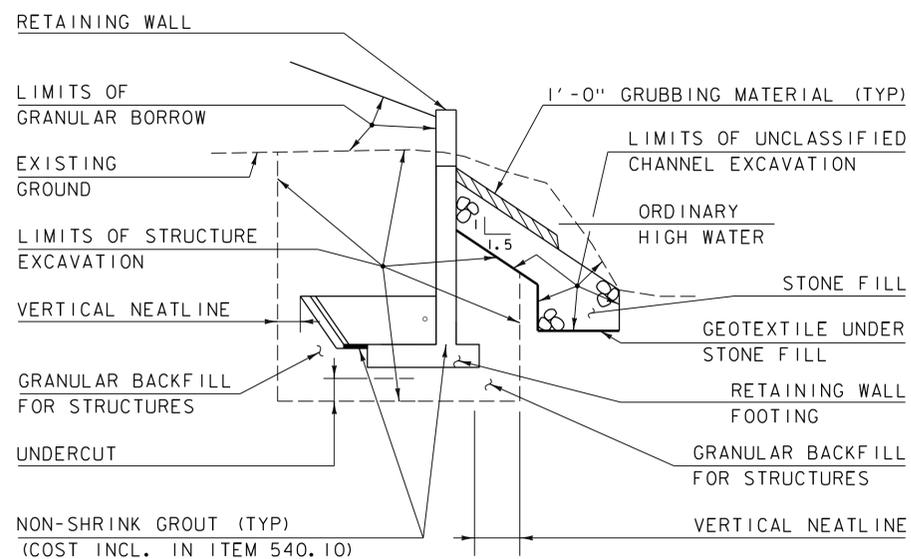


TYPICAL CHANNEL SECTION  
(NOT TO SCALE)

- 1) WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
- 2) THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.
- 3) 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 UNDERNEATH DOWNSPOUTS. SEE THE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

MATERIAL INFORMATION

	THICKNESS	TYPE
STONE FILL	X'-0"	TYPE X
STONE FILL, CULVERT LINING	X'-0"	E-STONE TYPE X
STONE FILL, STREAM BED MATERIAL	X'-0"	E-STONE TYPE X



RETAINING WALL EARTHWORK TYPICAL SECTION  
NOT TO SCALE

NOTE:  
TOP OF RETAINING WALL FOOTING SHALL BE AT OR BELOW BOTTOM OF BOX CULVERT.

LEVELING PAD	
WIDTH	DIMENSION
WIDTH	2' - 6"
TOE	0' - 9"
HEEL	0' - 9"
THICKNESS	1' - 0"
UNDERCUT	1' - 0"
WALL	
THICKNESS	1' - 0"
HEIGHT	VARIES
EXCAVATION LIMITS	
VERTICAL NEATLINE	1' - 6"
UNDERCUT	1' - 0"

RETAINING WALL - ASSUMED DIMENSIONS

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)

FILE NAME: sl2j624+yp.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
TYPICAL SECTIONS 2

PLOT DATE: 15-FEB-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: C. FRENCH  
SHEET 4 OF 24

**GENERAL INFORMATION**

**SYMBOLGY LEGEND NOTE**

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY 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. SYMBOLGY 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 SYMBOLGY**

**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 SYMBOLGY**

**PROJECT DESIGN & LAYOUT SYMBOLGY**

— — — 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
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//// //// //// ////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY 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 — P —	PROPERTY LINE (P/L)
— L — 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 SYMBOLGY**

**EPSC MEASURES**

ONNOONNOONNO	SEDIMENT ISOLATION
— — — — —	SILT FENCE
— X — X — X — X —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
⊞	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**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
Ⓜ	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
x — x — x — x —	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: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)

FILE NAME: sl2j624legend.dgn PLOT DATE: 15-FEB-2024  
PROJECT LEADER: R. YOUNG DRAWN BY: R. PELLETT  
DESIGNED BY: C. FRENCH CHECKED BY: C. FRENCH  
CONVENTIONAL SYMBOLGY LEGEND SHEET 5 OF 24

PRIMARY CONTROL

HVCTRL #1  
 NORTH = 852066.7830  
 EAST = 1530399.3780  
 ELEV. = 387.9200

TO REACH FROM THE 4-WAY INTERSECTION OF ROUTE 36, N ROAD AND S ROAD IN FAIRFIELD, GO NORTH ALONG N ROAD FOR 2.2 MI (3.5 KM) TO THE INTERSECTION OF PARADEE ROAD RIGHT. TURN RIGHT AND GO EAST ALONG PARADEE ROAD FOR 1.2 MI (1.9 KM) TO THE SITE OF THE MARK ON THE LEFT.

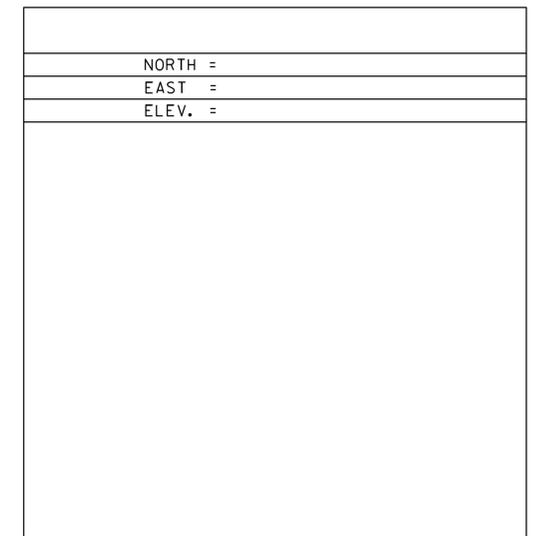
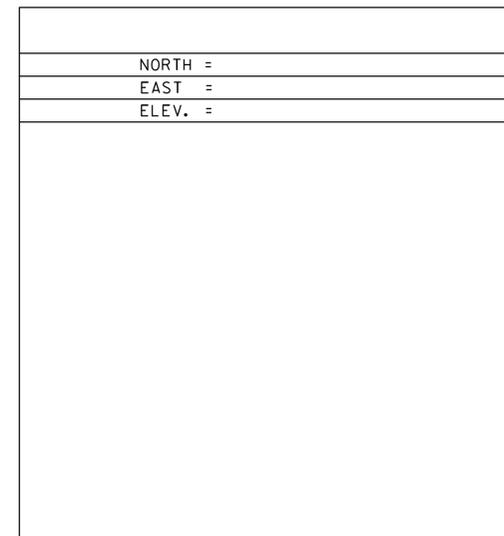
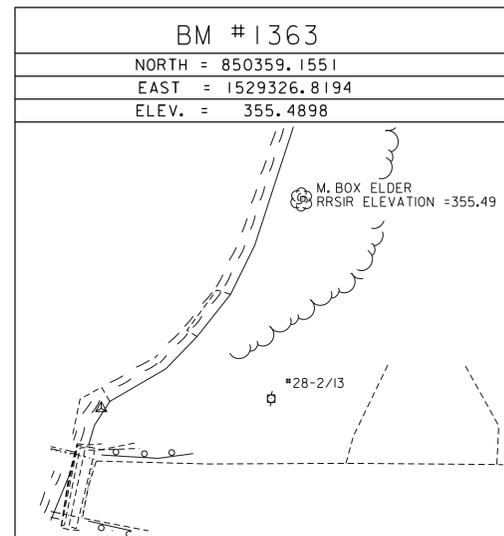
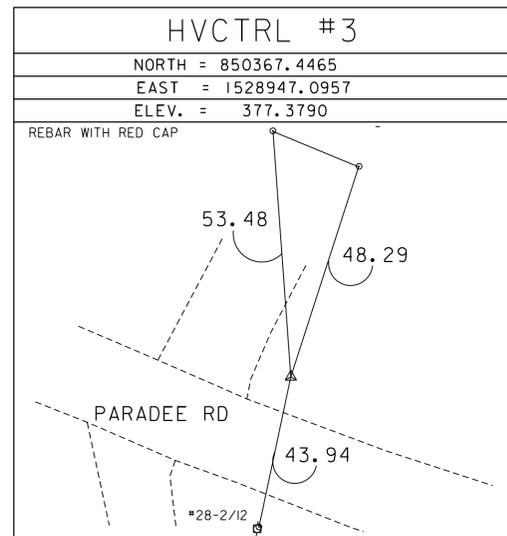
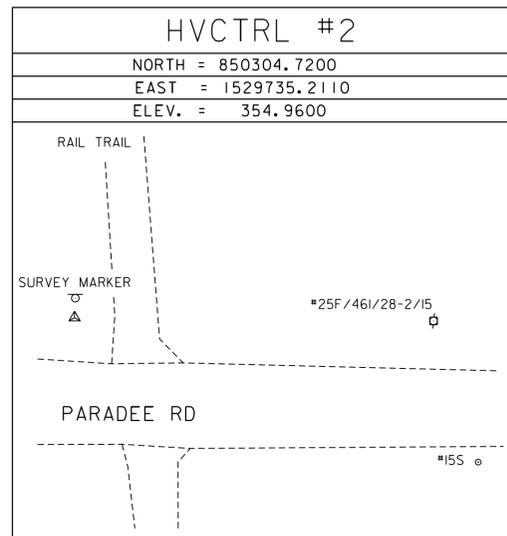
THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 0.2 FT (6 CM) BELOW GROUND SURFACE.  
 THE MARK IS 14.5' WEST OF CENTER LINE OF PARADEE ROAD. IT IS 1.0' WEST OF A FENCE.

HVCTRL #2  
 NORTH = 850304.7200  
 EAST = 1529735.2110  
 ELEV. = 354.9600

TO REACH FROM THE 4-WAY INTERSECTION OF ROUTE 36, N ROAD AND S ROAD IN FAIRFIELD, GO NORTH ALONG N ROAD FOR 2.2 MI (3.5 KM) TO THE INTERSECTION OF PARADEE ROAD RIGHT. TURN RIGHT AND GO EAST ALONG PARADEE ROAD FOR 0.8 MI (1.3 KM) TO THE INTERSECTION OF THE LAMOILLE VALLEY RAIL TRAIL AND THE SITE OF THE MARK ON THE LEFT IN THE NORTHWEST QUADRANT OF THE INTERSECTION.

THE MARK IS A USGS BENCH MARK DISK SET IN A BOULDER THAT IS 2.5 FT (0.8 M) BELOW GROUND SURFACE. ACCESS IS THROUGH A PLASTIC ECV ACCESS COVER AND PVC RISER. THE MARK IS 14.0' WEST OF THE RAIL TRAIL, 17.5' NORTH AND LEVEL WITH THE CENTER LINE OF PARADEE RD. 81.0' WEST OF POLE 25F/461 WITH A CATTLE CROSSING SIGN ON IT. 1.0' SOUTH OF A FIBERGLASS WITNESS POST.

SECONDARY CONTROL



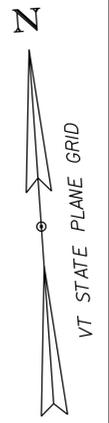
\*TRAVERSE COMPLETED ON 6/7/2021 BY R.GILMAN H.MCGOWAN

ALIGNMENT TIES

CONTROL LINE DATA - TH29											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	S68.000°E	73.126'	850370.613	1528894.94		4128.338					
PI	S86.000°E	313.024'	850313.554	1529036.167	4201.464	4280.656	4358.543	18	-500.000'	157.080'	79.192'
PI	N90.000°E	233.440'	850289.282	1529383.265	4592.376	4627.296	4662.189	4	-1000.000'	69.813'	34.921'
POE			850289.282	1529616.705		4860.708					
CONTROL LINE DATA - channel											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N19.267°E	200.000'	850203.763	1529223.282		5000					
POE			850392.562	1529289.275		5200					

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	R. PELLETT
FILE NAME:	sl2j624tie.dgn	DESIGNED BY:	VTRANS
PROJECT LEADER:	R. YOUNG	CHECKED BY:	R. GILMAN
TIE SHEET		SHEET	6 OF 24



RAYHAM SILT LOAM  
3%-8% SLOPES  
HIGH EROSION  
K=0.49

BELGRADE SILT LOAM  
2%-8% SLOPES  
HIGH EROSION  
K=0.49

LIMERICK SILT LOAM  
0%-2% SLOPES  
HIGH EROSION  
K=0.49

ENOSBURG LOAMY FINE SAND  
3%-8% SLOPES  
MODERATE EROSION  
K=0.24

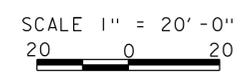
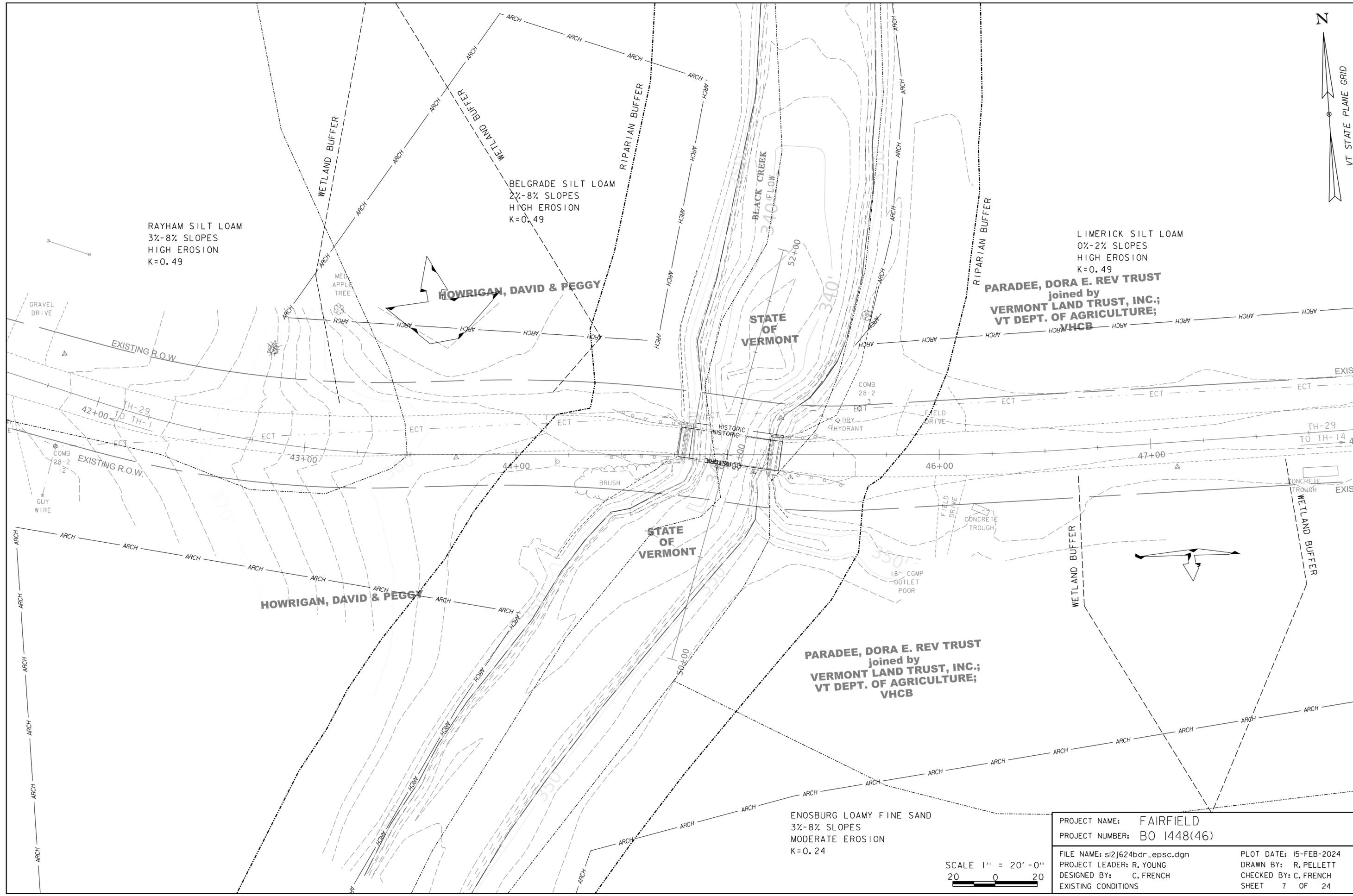
**HOWRIGAN, DAVID & PEGGY**

**PARADEE, DORA E. REV TRUST**  
joined by  
**VERMONT LAND TRUST, INC.;**  
VT DEPT. OF AGRICULTURE;  
**VHCB**

**PARADEE, DORA E. REV TRUST**  
joined by  
**VERMONT LAND TRUST, INC.;**  
VT DEPT. OF AGRICULTURE;  
**VHCB**

STATE OF VERMONT

STATE OF VERMONT



PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624bdr_epsc.dgn	PLOT DATE: 15-FEB-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: C. FRENCH
EXISTING CONDITIONS	SHEET 7 OF 24

HD STEEL BEAM GUARDRAIL,  
GALVANIZED

STA 44+25.54 RT - STA 44+41.36 RT  
STA 44+38.54 LT - STA 44+49.37 LT  
STA 45+50.63 RT - STA 45+80.90 RT  
STA 45+58.63 LT - STA 45+74.96 LT

GUARDRAIL APPROACH SECTION, GALVANIZED  
HDSB/ FASCIA MOUNTED/ STEEL TUBING

STA 44+41.36 RT - STA 44+66.36 RT  
STA 44+49.37 LT - STA 44+74.37 LT  
STA 45+25.63 RT - STA 45+50.63 RT  
STA 45+33.63 LT - STA 45+58.63 LT

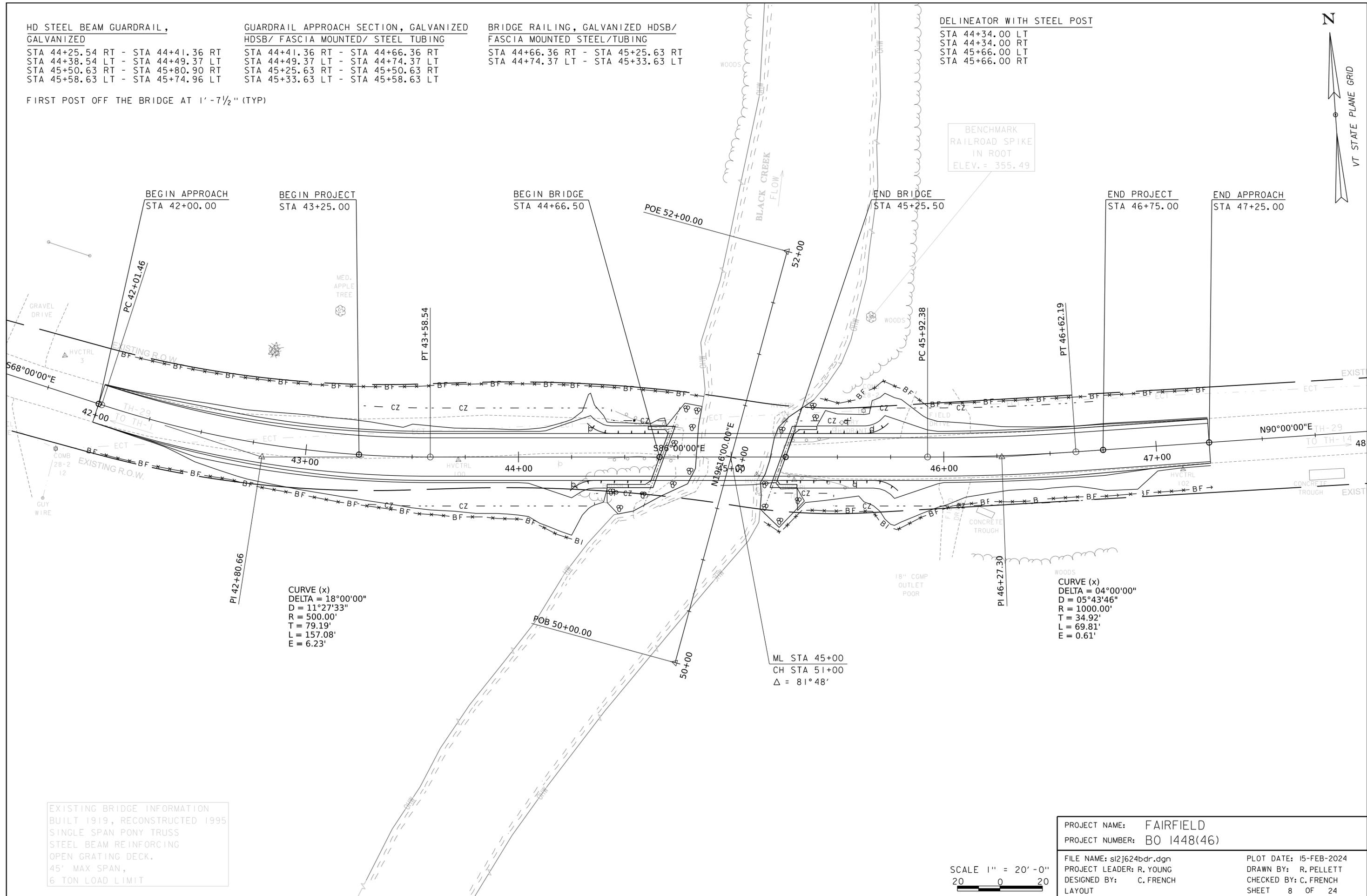
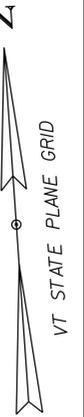
BRIDGE RAILING, GALVANIZED HDSB/  
FASCIA MOUNTED STEEL/TUBING

STA 44+66.36 RT - STA 45+25.63 RT  
STA 44+74.37 LT - STA 45+33.63 LT

DELINEATOR WITH STEEL POST

STA 44+34.00 LT  
STA 44+34.00 RT  
STA 45+66.00 LT  
STA 45+66.00 RT

FIRST POST OFF THE BRIDGE AT 1'-7 1/2" (TYP)



EXISTING BRIDGE INFORMATION  
BUILT 1919, RECONSTRUCTED 1995  
SINGLE SPAN PONY TRUSS  
STEEL BEAM REINFORCING  
OPEN GRATING DECK.  
45' MAX SPAN,  
6 TON LOAD LIMIT

CURVE (x)  
DELTA = 18°00'00"  
D = 11°27'33"  
R = 500.00'  
T = 79.19'  
L = 157.08'  
E = 6.23'

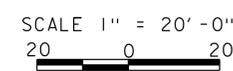
CURVE (x)  
DELTA = 04°00'00"  
D = 05°43'46"  
R = 1000.00'  
T = 34.92'  
L = 69.81'  
E = 0.61'

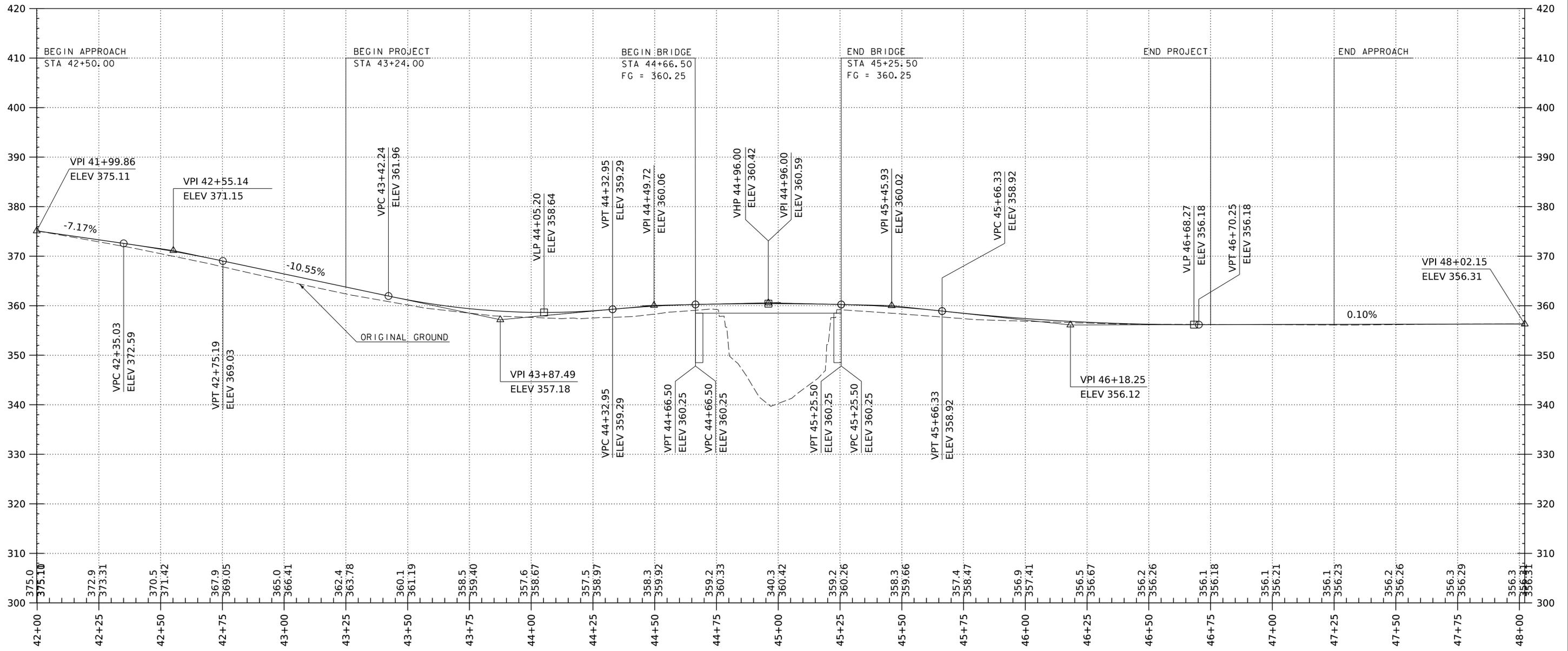
ML STA 45+00  
CH STA 51+00  
Δ = 81°48'

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)

FILE NAME: sl2j624bdr.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
LAYOUT

PLOT DATE: 15-FEB-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: C. FRENCH  
SHEET 8 OF 24

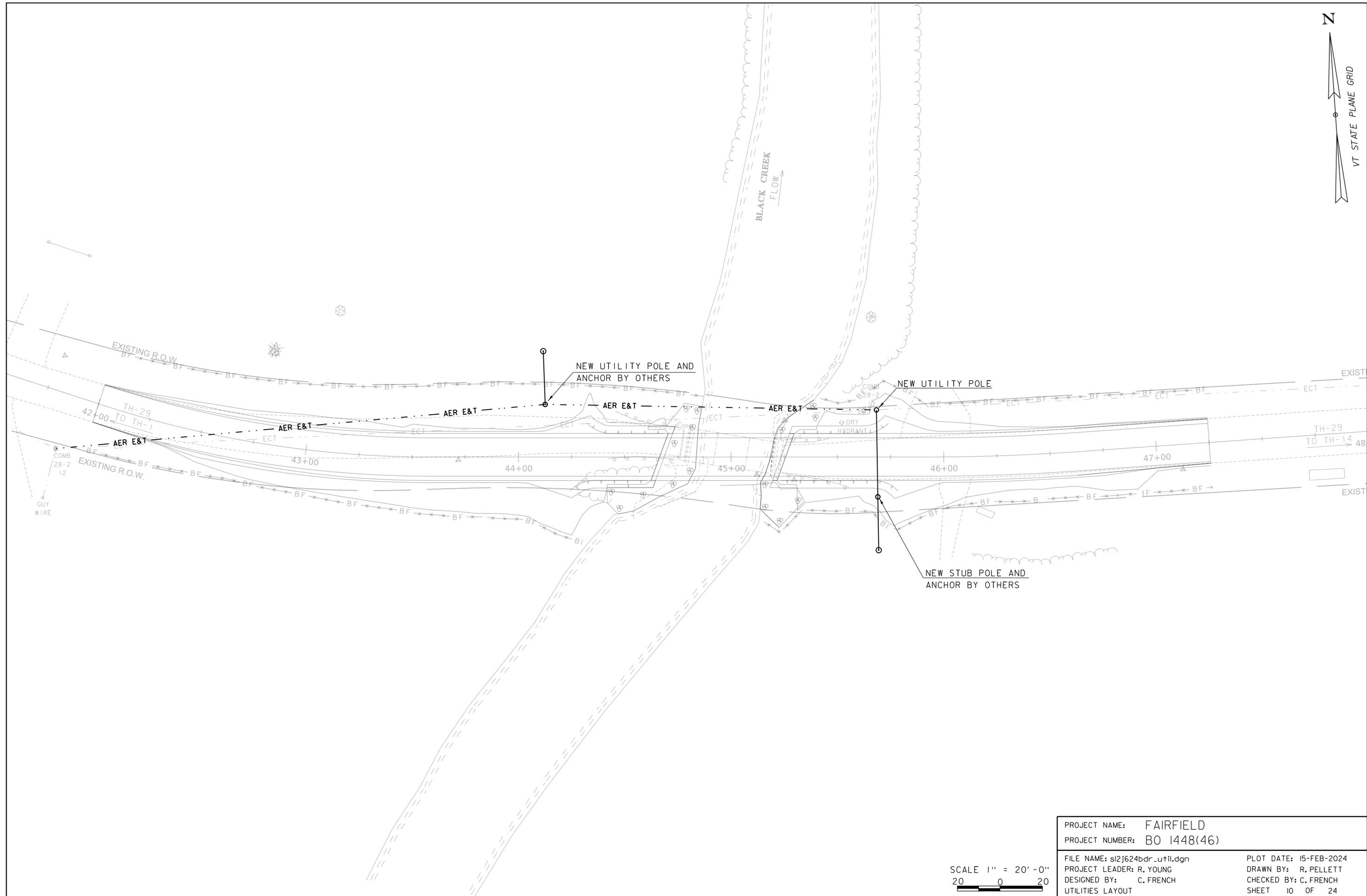
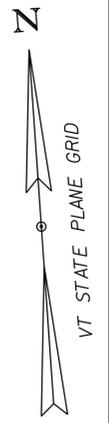




NOTE  
ORIGINAL GROUND LISTED TO THE 10TH,  
FINISHED GRADE LISTED TO THE 100TH

**TH29 PROFILE**  
SCALE = 1"=20'-0"

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624Profile.dgn	PLOT DATE: 15-FEB-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. FRENCH
TH29 PROFILE SHEET	SHEET 9 OF 24



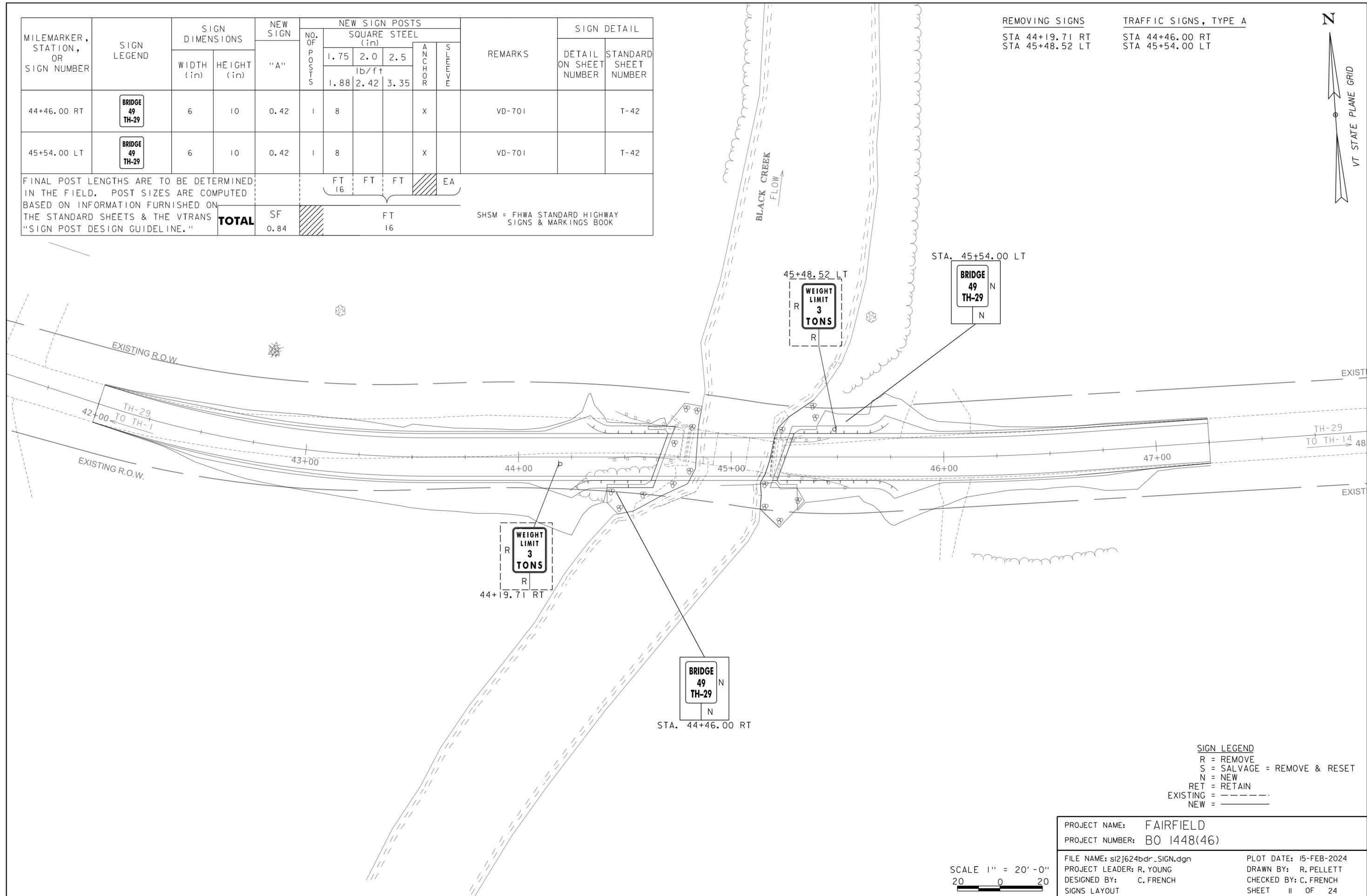
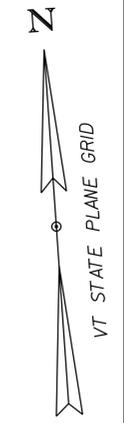
SCALE 1" = 20'-0"  
20 0 20

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624bdr_util.dgn	PLOT DATE: 15-FEB-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: C. FRENCH
UTILITIES LAYOUT	SHEET 10 OF 24

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW SIGN "A"	NO. OF POSTS	NEW SIGN POSTS SQUARE STEEL (in)					REMARKS	SIGN DETAIL			
		WIDTH (in)	HEIGHT (in)			1b/ft			ANCHOR	SLAB		DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER		
						1.75	2.0	2.5							
44+46.00 RT		6	10	0.42	1	8				X		VD-701		T-42	
45+54.00 LT		6	10	0.42	1	8				X		VD-701		T-42	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS & THE VTRANS "SIGN POST DESIGN GUIDELINE."						FT 16	FT 16	FT 16		EA					
				<b>TOTAL</b>	SF 0.84	FT 16						SHSM = FHWA STANDARD HIGHWAY SIGNS & MARKINGS BOOK			

REMOVING SIGNS  
STA 44+19.71 RT  
STA 45+48.52 LT

TRAFFIC SIGNS, TYPE A  
STA 44+46.00 RT  
STA 45+54.00 LT



**SIGN LEGEND**  
R = REMOVE  
S = SALVAGE = REMOVE & RESET  
N = NEW  
RET = RETAIN  
EXISTING = - - - - -  
NEW = \_\_\_\_\_

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)  
FILE NAME: sl2j624bdr\_SIGN.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
SIGNS LAYOUT  
PLOT DATE: 15-FEB-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: C. FRENCH  
SHEET II OF 24

SCALE 1" = 20'-0"  
0 20

**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**

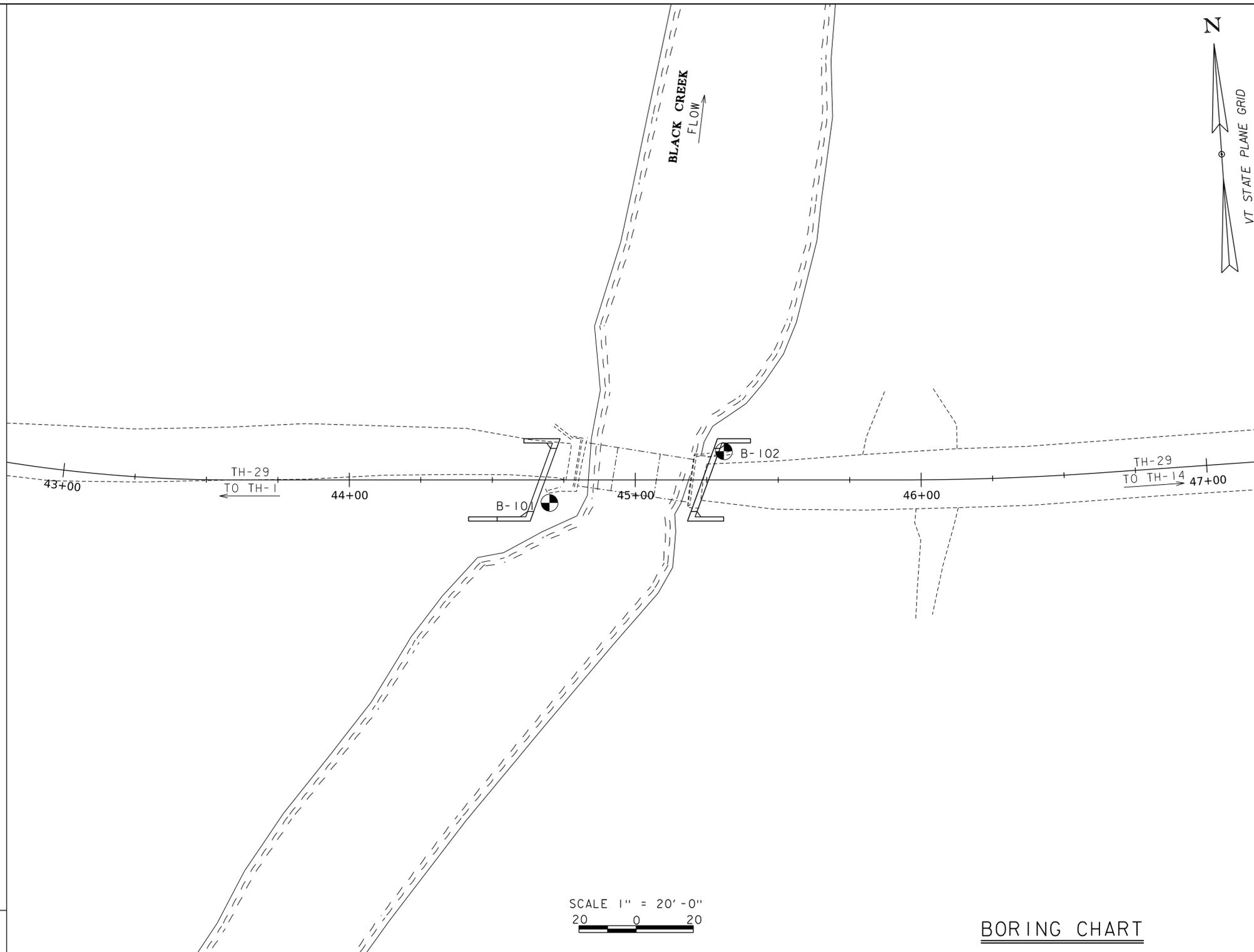
- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊗ Auger Boring
- ⊙ Rod Sounding
- S Sample
- N Standard Penetration Test  
Blow Count Per Foot For:  
2" O.D. Sampler  
1 3/8" I.D. Sampler  
Hammer Weight Of 140 Lbs.  
Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- 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 3/8"
- 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
- 1/2 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
gr'y	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).
- SLT** - 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 06/24/2021 and 07/01/2021 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.	SURV. STATION	OFFSET	NORTHING	EASTING
B-101	36+58.00	9.10 RT	850295.20	1529216.50
B-102	37+49.00	11.20 LT	850297.60	1529309.00

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)

FILE NAME: sl2j624bor.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
BORING INFORMATION SHEET

PLOT DATE: 15-FEB-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: C. FRENCH  
SHEET 12 OF 24

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <b>B-101</b>						
				Fairfield BO 1448(46) TH 29 Bridge No. 49		Page No.: 1 of 2						
						Pin No.: 12j624						
						Checked By: END						
Boring Crew: Judkins, Brochu, Emerson		Casing Sampler		Groundwater Observations								
Date Started: 6/28/21 Date Finished: 6/29/21		Type: WASH BORE SS		Date	Depth (ft)	Notes						
VTSPG NAD83: N 850295.20 ft E 1529216.50 ft		I.D.: 4 in 1.5 in		06/28/21	7.2	WT After Drilling						
Station: 36+58 Offset: 9.10		Hammer Wt: N.A. 140 lb.		06/29/21	3.2	WT After Drilling						
Ground Elevation: 358.3 ft		Hammer Fall: N.A. 30 in.		06/29/21	14.3	WT Before Drilling						
		Hammer/Rod Type: Auto/AWJ										
		Rig: CME 55 TRACK C <sub>F</sub> = 1.56										
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 %	LL %	PI %
		Visual Description: Sandy Gravel, brn, Moist, Rec. = 1.4 ft, Field Note: NXDC cleanout 3.8'-5.0'				20-47-33-R@0" (80)						
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.0 ft, Field Note: NXDC cleanout 8.0'-10.0'				12-23-20-13 (43)	13.9	37.5	41.4	21.1		
10		Visual Description: Silt, brn, Moist, Rec. = 1.6 ft, Field Note: Rollercone cleanout 14.5'-15.0'				6-2-2-2 (4)						
		A-1-b, Sa, brn, Moist, Rec. = 0.8 ft, Field Note: Rollercone cleanout 19.4'-20.0'				5-1-1-1 (2)	36.2	15.2	71.2	13.6		
20		Visual Description: Clay, gry, MTW, Rec. = 1.0 ft				4-2-2-3 (4)						
		A-6, SiCl, gry, MTW, Rec. = 1.3 ft				WoH	33.2	4.8	1.5	93.7	32	12
30		Visual Description: Clay, gry, MTW, Rec. = 1.6 ft, Field Note: NXDC cleanout 47.9'-50.0'				WoH						
40		Visual Description: Silty Clay, gry, MTW, Rec. = 2.0 ft, Field Note: Pushed 3"x 30" Shelby Tube										
50		Visual Description: Silty Clay, gry, MTW, Rec. = 2.0 ft, Field Note: Pushed 3"x 30" Shelby Tube										
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 <sub>F</sub> 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 FAIRFIELD BO 1448(46).GPJ VERMONT AOTJ.GDT 10/1/21

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <b>B-101</b>						
				Fairfield BO 1448(46) TH 29 Bridge No. 49		Page No.: 2 of 2						
						Pin No.: 12j624						
						Checked By: END						
Boring Crew: Judkins, Brochu, Emerson		Casing Sampler		Groundwater Observations								
Date Started: 6/28/21 Date Finished: 6/29/21		Type: WASH BORE SS		Date	Depth (ft)	Notes						
VTSPG NAD83: N 850295.20 ft E 1529216.50 ft		I.D.: 4 in 1.5 in		06/28/21	7.2	WT After Drilling						
Station: 36+58 Offset: 9.10		Hammer Wt: N.A. 140 lb.		06/29/21	3.2	WT After Drilling						
Ground Elevation: 358.3 ft		Hammer Fall: N.A. 30 in.		06/29/21	14.3	WT Before Drilling						
		Hammer/Rod Type: Auto/AWJ										
		Rig: CME 55 TRACK C <sub>F</sub> = 1.56										
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 %	LL %	PI %
70		Visual Description: Clay, gry, MTW, Rec. = 2.0 ft				WoH						
90		90.0 ft - 95.0 ft, Dark gray, -silver PHYLLITE, Discrete lenses of CaCO <sub>3</sub> within the top 0.5-ft of B101 (90.5-ft). Readily splits along foliation planes. Medium hard, Fresh, Good rock, NXMDC, RMR=63	R-1 (60)	100 (100)	6							
		95.0 ft - 100.0 ft, Dark gray, -silver PHYLLITE, Discrete lenses of CaCO <sub>3</sub> within the top 0.5-ft of B101 (90.5-ft). Readily splits along foliation planes. Medium hard, Fresh, Good rock, NXMDC, RMR=63	R-2 (60)	90 (90)	3							
100		Hole stopped @ 100.0 ft										
		Remarks: Hole Collapsed @ 71.0'										
110												
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 <sub>F</sub> 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 FAIRFIELD BO 1448(46).GPJ VERMONT AOTJ.GDT 10/1/21

PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	R. PELLETT
FILE NAME:	sl2j624bor.dgn	CHECKED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	SHEET	13 OF 24
DESIGNED BY:	C. FRENCH		
BORING LOG SHEET 1			

STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <b>B-102</b>						
Fairfield BO 1448(46) TH 29 Bridge No. 49		Page No.: 1 of 2		Pin No.: 12j624						
Checked By: END		Casing		Sampler						
Type: WASH BORE		SS		Groundwater Observations						
I.D.: 4 in		1.5 in		Date	Depth (ft)					
Date Started: 6/24/21		Date Finished: 7/01/21		06/24/21	11.8					
VTSPG NAD83: N 850297.60 ft E 1529309.00 ft		Hammer Wt: N.A. 140 lb.		07/01/21	3.5					
Station: 37+49		Hammer Fall: N.A. 30 in.		07/01/21	12.3					
Offset: -11.20		Hammer/Rod Type: Auto/AWJ		Notes						
Ground Elevation: 357.6 ft		Rig: CME 55 TRACK		WT After Drilling						
		C <sub>e</sub> = 1.56		WT Before 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 %
0-3.7	Field Note: Asphalt 0.0'-0.35'	Visual Description: Gravelly Sand, brn, Moist, Rec. = 0.9 ft, Field Note: NXDC cleanout 3.7'-5.0'				4-5-5-5 (10)				
3.7-9.6	Field Note: No recovery, Field Note: Rollercone cleanout 9.6'-10.0'					4-4-2-1 (6)				
9.6-10.7	A-4, SaSi, brn, MTW, Rec. = 1.1 ft					WoH				
10.7-19.3	Visual Description: Sand. Wood was in sample, brn, Wet, Rec. = 0.9 ft, Field Note: Rollercone cleanout 19.3'-20.0'					1-1-1-1 (2)				
19.3-27.7	Visual Description: Clay, gray, MTW, Rec. = 1.4 ft, Field Note: Rollercone cleanout 20.3'-22.0'					2-3-4-3 (7)				
27.7-30.0	Field Note: Pushed 3"x 30" Shelby Tube, Rec. = 2.0 ft									
30.0-32.5	Field Note: Pushed 3"x 30" Shelby Tube, Rec. = 2.0 ft, Field Note: Rollercone cleanout 27.7'-30.0'									
32.5-35.0	Visual Description: Clay, gry, MTW, Rec. = 2.0 ft, Field Note: Rollercone cleanout 32.5'-35.0'					WoH				
35.0-40.0	Visual Description: Clay, gry, MTW, Rec. = 2.0 ft					WoH				
40.0-50.0	A-6, SiCl, gry, MTW, Rec. = 2.0 ft					WoH				
50.0-60.0	Visual Description: Clay, gry, MTW, Rec. = 2.0 ft					WoR				
60.0-70.0	Visual Description: Clay, gry, MTW, Rec. = 2.0 ft					WoR				

BORING LOG FAIRFIELD BO 1448(46) GPJ VERMONT AOT GDT 10/6/21

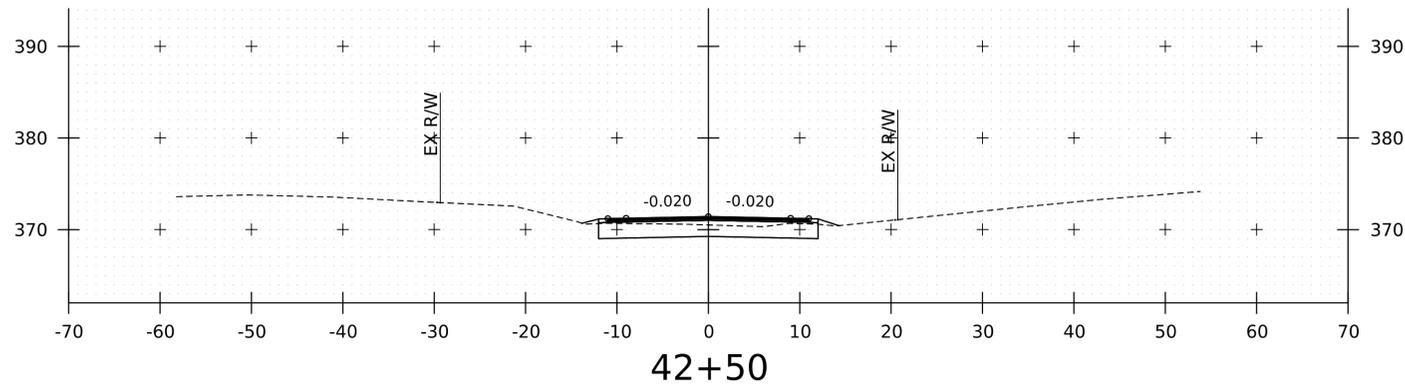
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. C<sub>e</sub> is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated.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

STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <b>B-102</b>						
Fairfield BO 1448(46) TH 29 Bridge No. 49		Page No.: 2 of 2		Pin No.: 12j624						
Checked By: END		Casing		Sampler						
Type: WASH BORE		SS		Groundwater Observations						
I.D.: 4 in		1.5 in		Date	Depth (ft)					
Date Started: 6/24/21		Date Finished: 7/01/21		06/24/21	11.8					
VTSPG NAD83: N 850297.60 ft E 1529309.00 ft		Hammer Wt: N.A. 140 lb.		07/01/21	3.5					
Station: 37+49		Hammer Fall: N.A. 30 in.		07/01/21	12.3					
Offset: -11.20		Hammer/Rod Type: Auto/AWJ		Notes						
Ground Elevation: 357.6 ft		Rig: CME 55 TRACK		WT After Drilling						
		C <sub>e</sub> = 1.56		WT Before 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 %
0-80	Visual Description: Clay, gry, MTW, Rec. = 2.0 ft					WoR				
80-89.2	Field Note: No Recovery, NXDC cleanout 89.2'-90.0'					1-1-2-3 (3)				
89.2-105.8	Field Note: Weathered rock, brn-gry, Moist, Rec. = 0.4 ft, NXDC cleanout 105.8'-108'					6-R@2"				
105.8-108.0	108.0 ft - 113.0 ft, Gray-green, PHYLLITE, with a silver sheen, prominently interlayered with thin, 1.0-mm, laminae of a purple-black phyllite and 2.0-mm layers of a CaCO <sub>3</sub> rich quartzite. Foliation is disrupted by folding. Medium hard, Fresh, Good rock, NXMDC, RMR=63		R-1	90	7 6 5 6 7					
108.0-118.0	113.0 ft - 118.0 ft, Gray-green, PHYLLITE, with a silver sheen, prominently interlayered with thin, 1.0-mm, laminae of a purple-black phyllite and 2.0-mm layers of a CaCO <sub>3</sub> rich quartzite. Foliation is disrupted by folding. Medium hard, Fresh, Good rock, NXMDC, RMR=63		R-2	90	4 4 3 4 4					
118.0-120	Hole stopped @ 118.0 ft									
120-130	Remarks: 1. Started open hole drilling beyond 37' 2. Hole Collapsed @ 15.0'									
130-140										

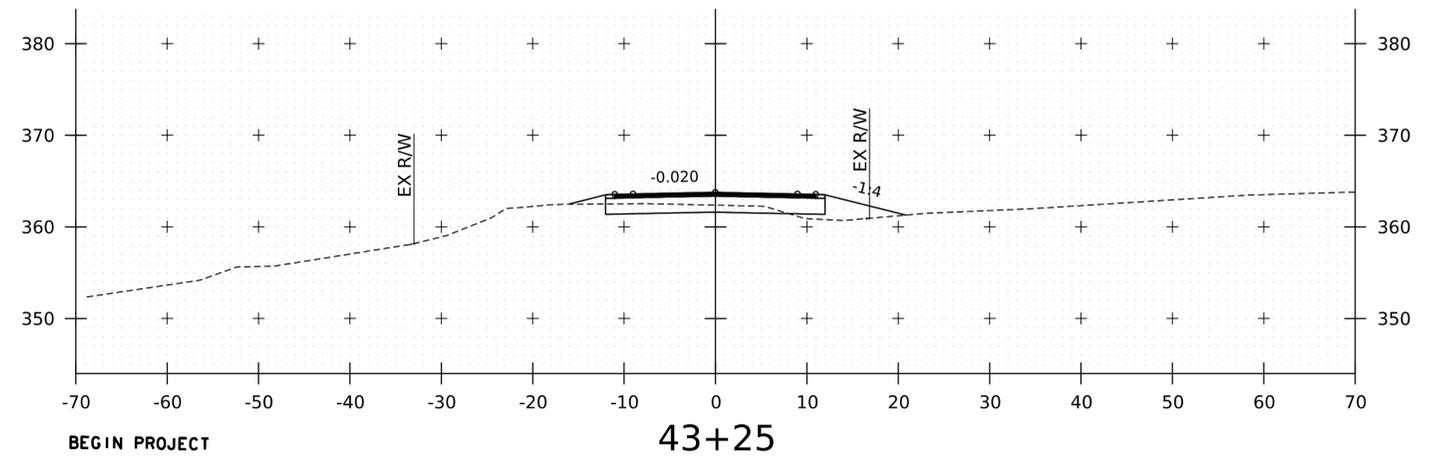
BORING LOG FAIRFIELD BO 1448(46) GPJ VERMONT AOT GDT 10/6/21

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<sub>e</sub> 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.

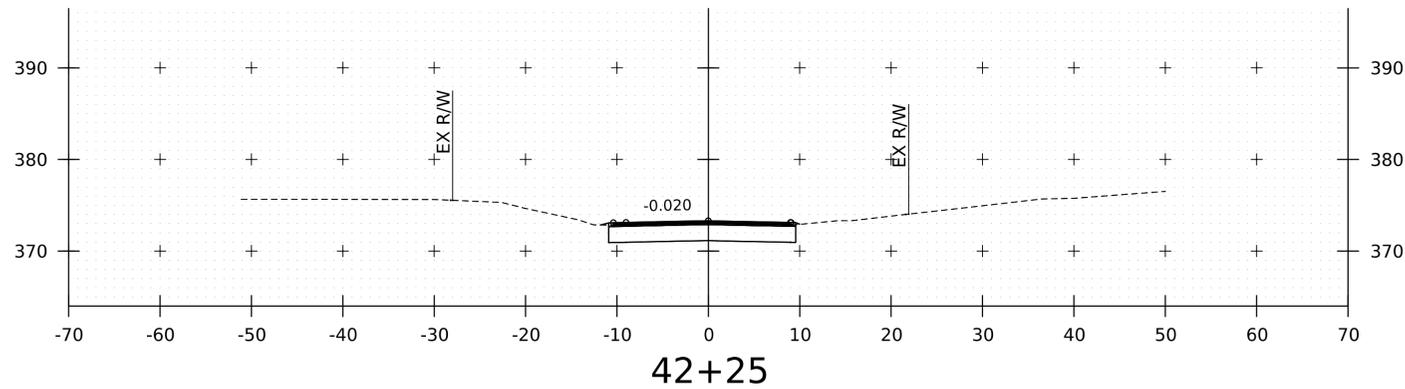
PROJECT NAME: FAIRFIELD	PLOT DATE: 15-FEB-2024
PROJECT NUMBER: BO 1448(46)	DRAWN BY: R. PELLETT
FILE NAME: sl2j624bor.dgn	CHECKED BY: C. FRENCH
PROJECT LEADER: R. YOUNG	SHEET 14 OF 24
DESIGNED BY: C. FRENCH	
BORING LOG SHEET 2	



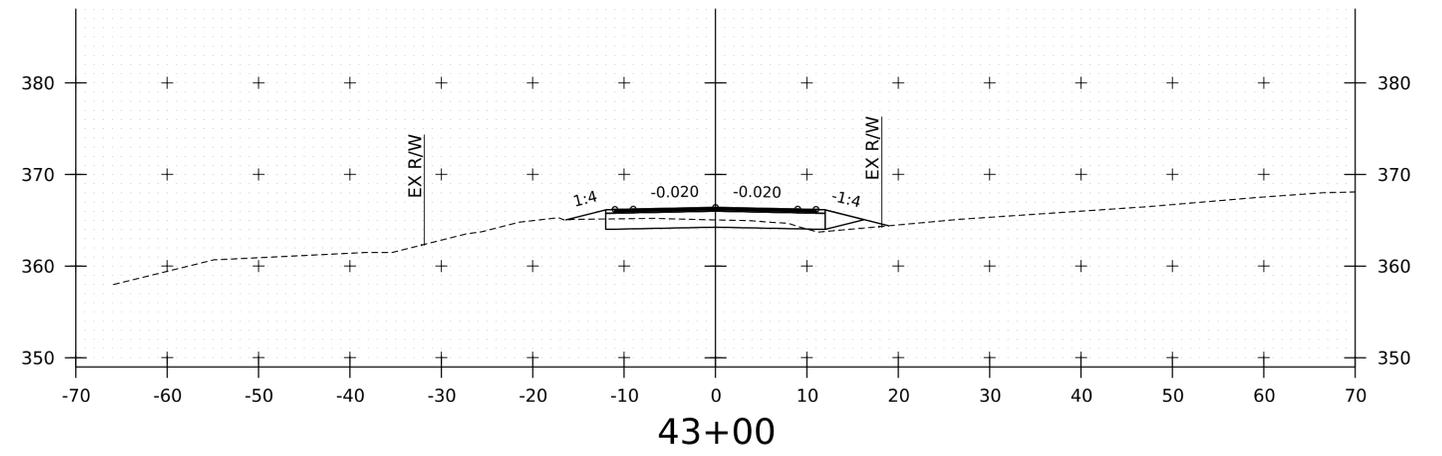
42+50



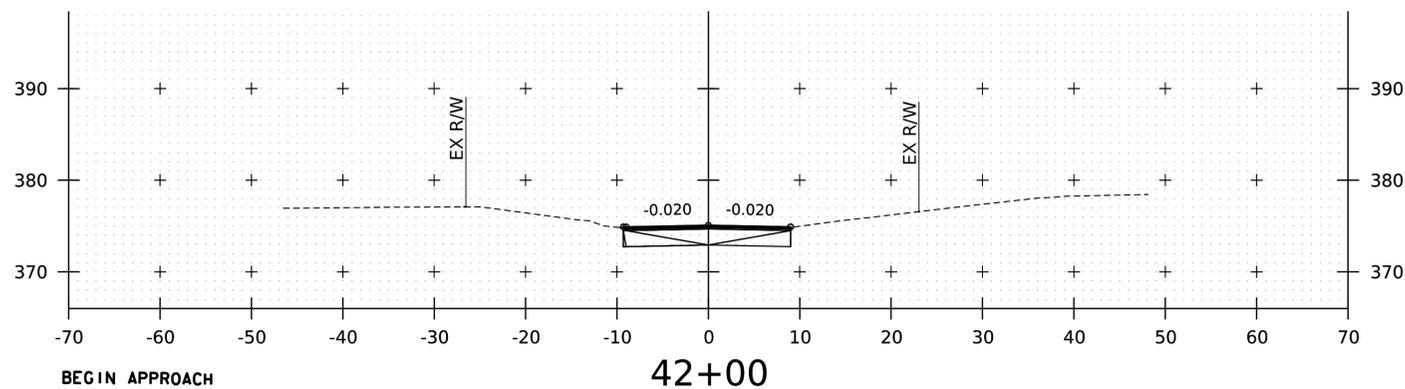
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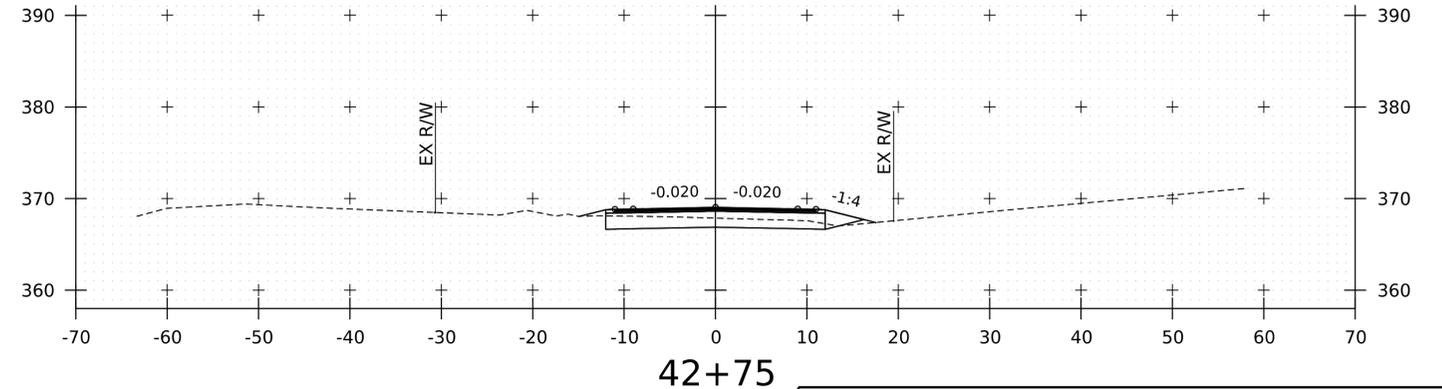
42+25



43+00



42+00

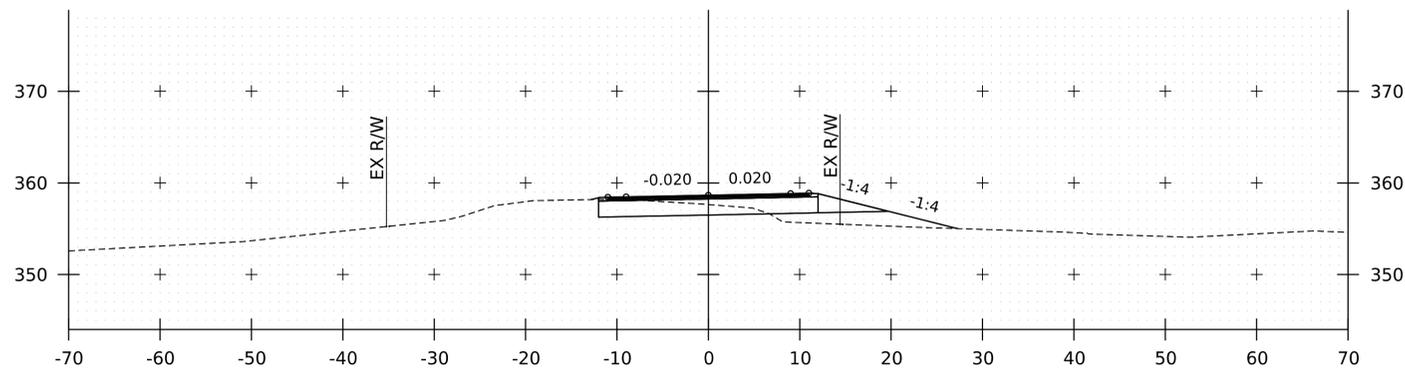


42+75

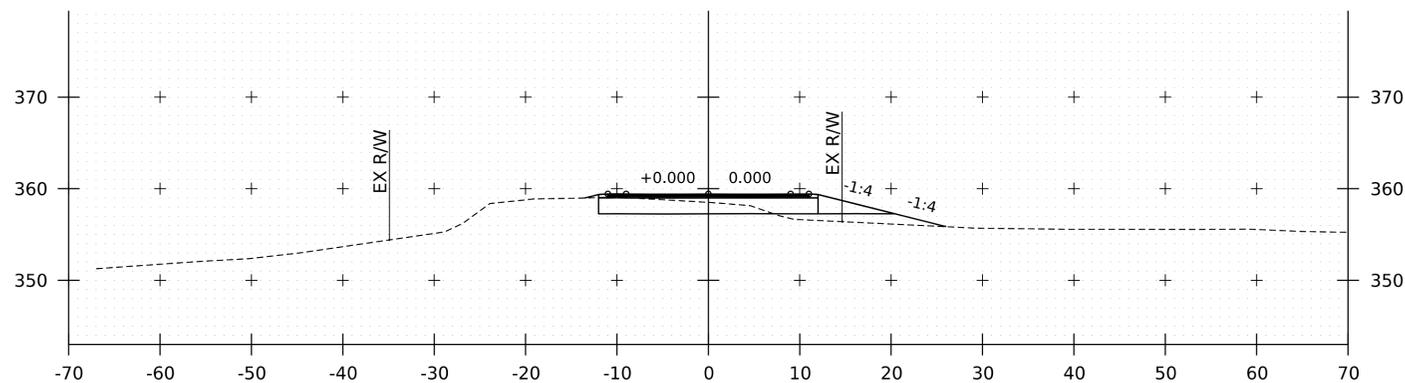
BEGIN APPROACH

BEGIN PROJECT

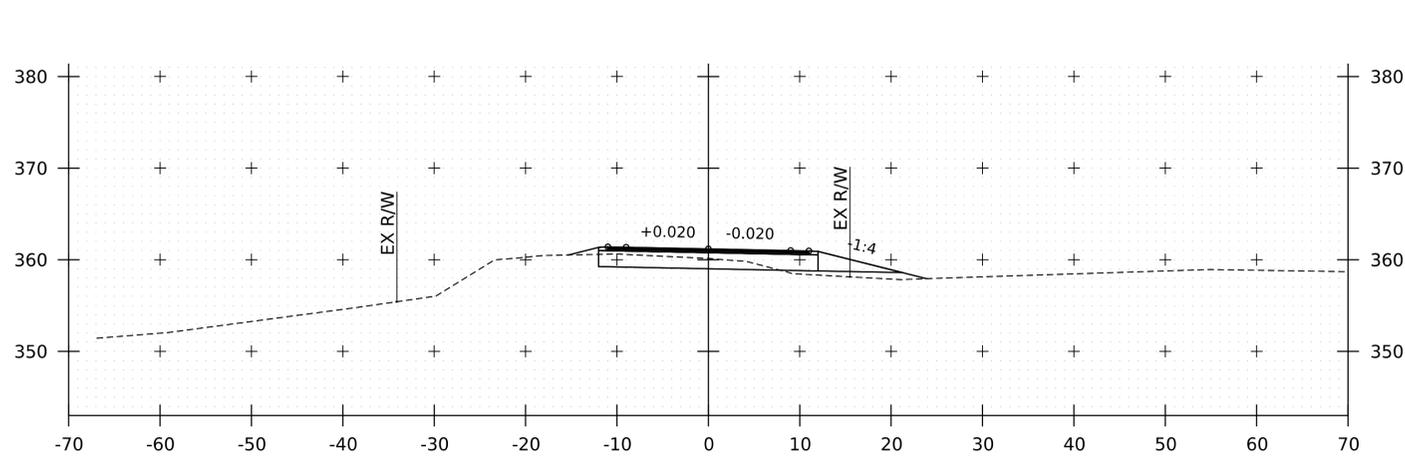
PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	BO 1448(460)
FILE NAME:	s12j624XS_ML_TH29.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	C. FRENCH
MAINLINE CROSS SECTIONS 1	
PLOT DATE:	15-FEB-2024
DRAWN BY:	C. FRENCH
CHECKED BY:	L. CHAMBERLAIN
SHEET	15 OF 24



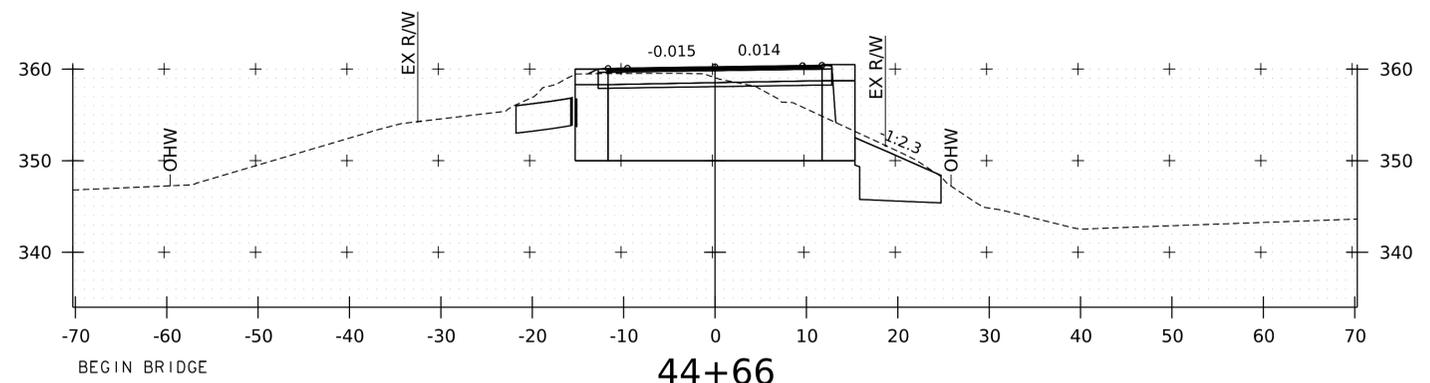
44+00



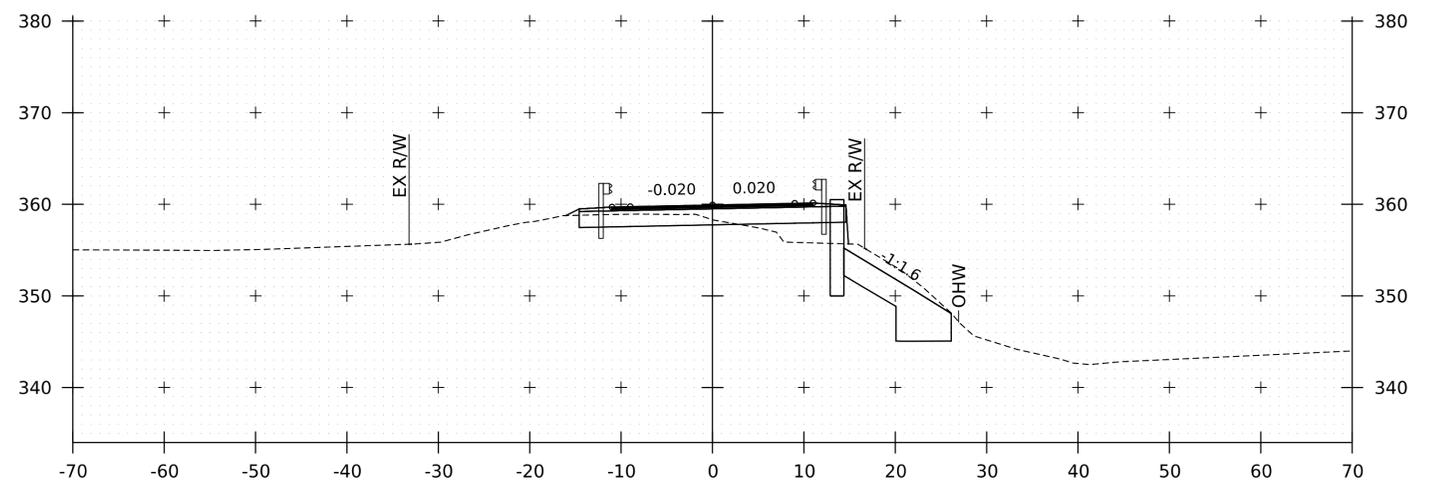
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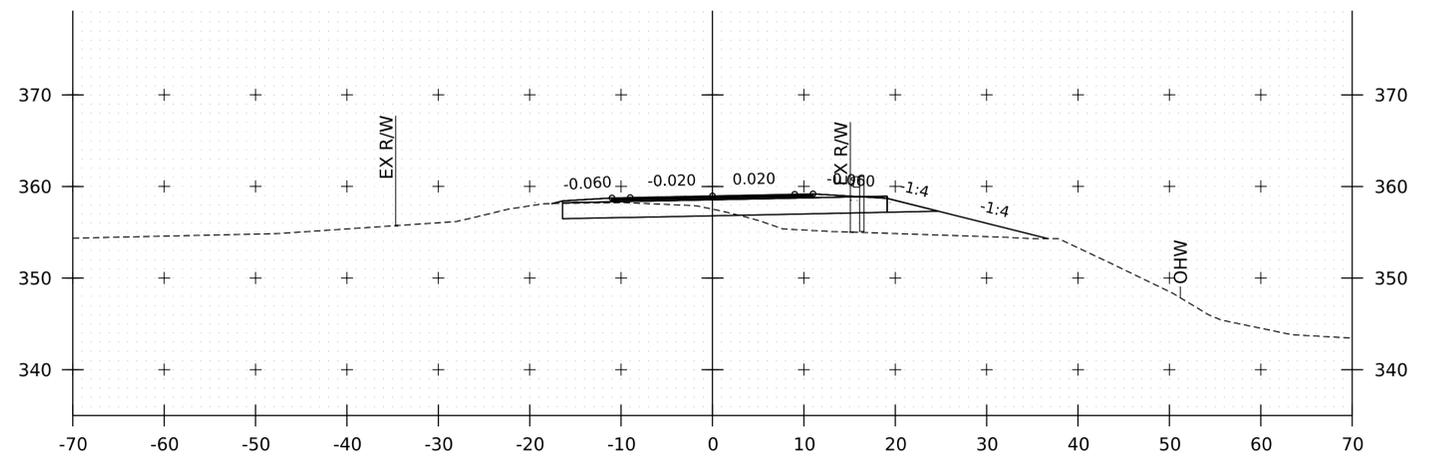
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44+66

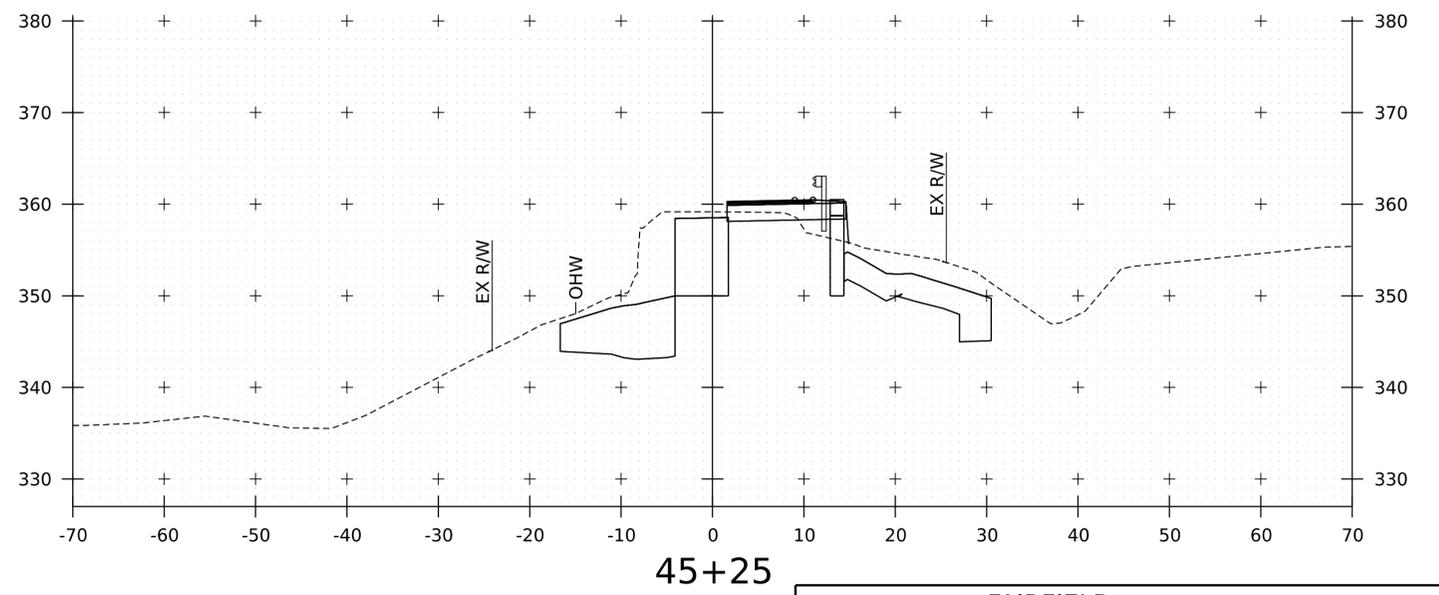
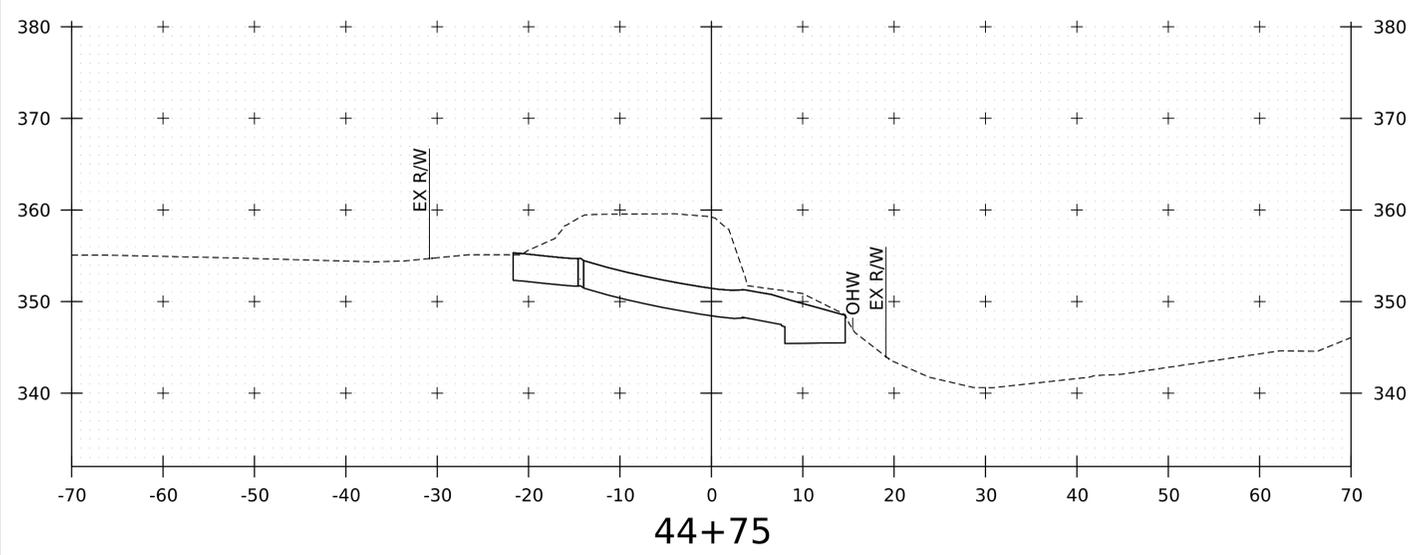
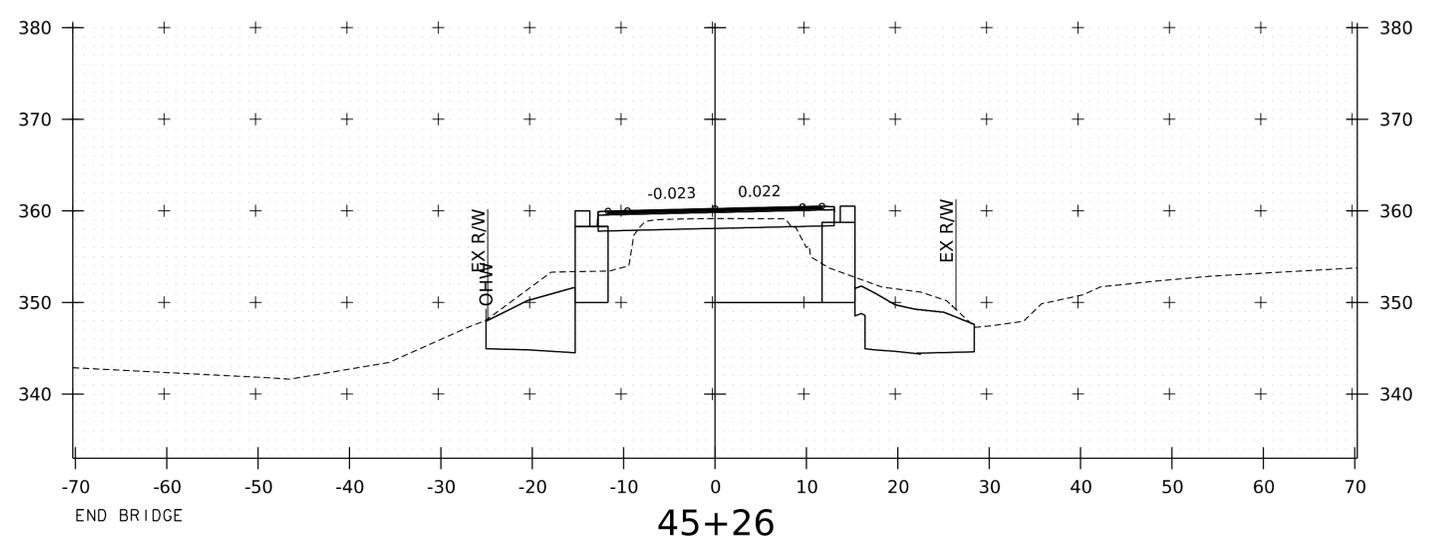
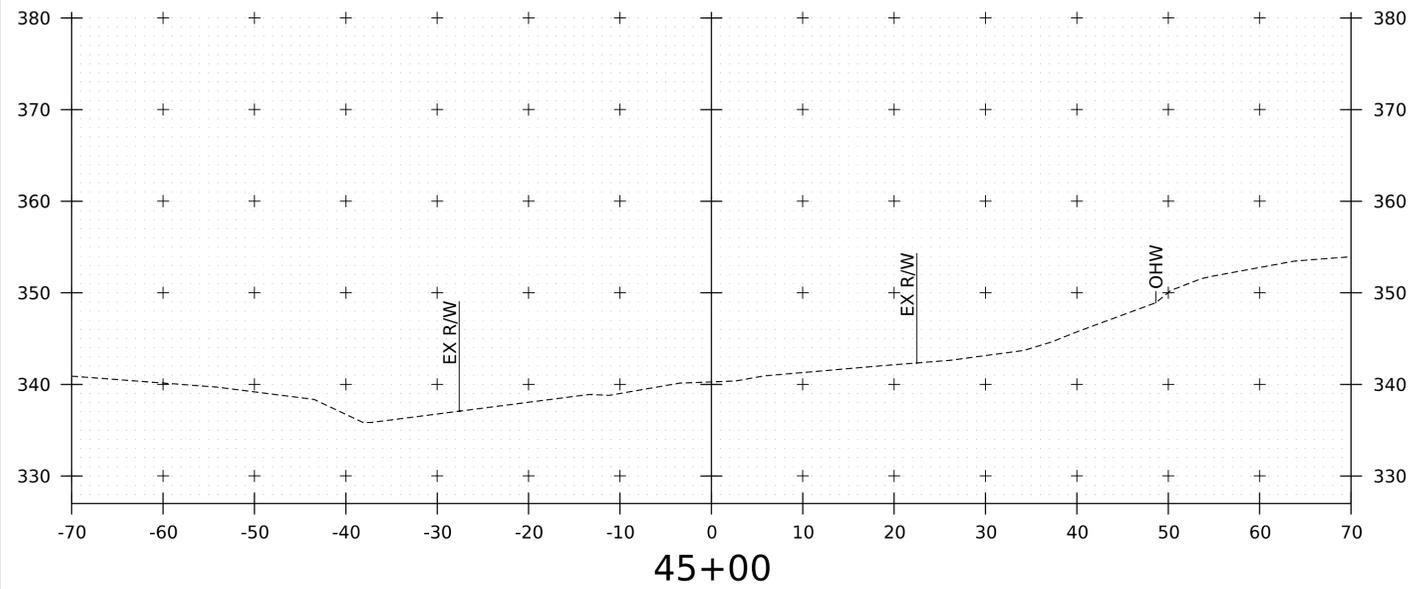


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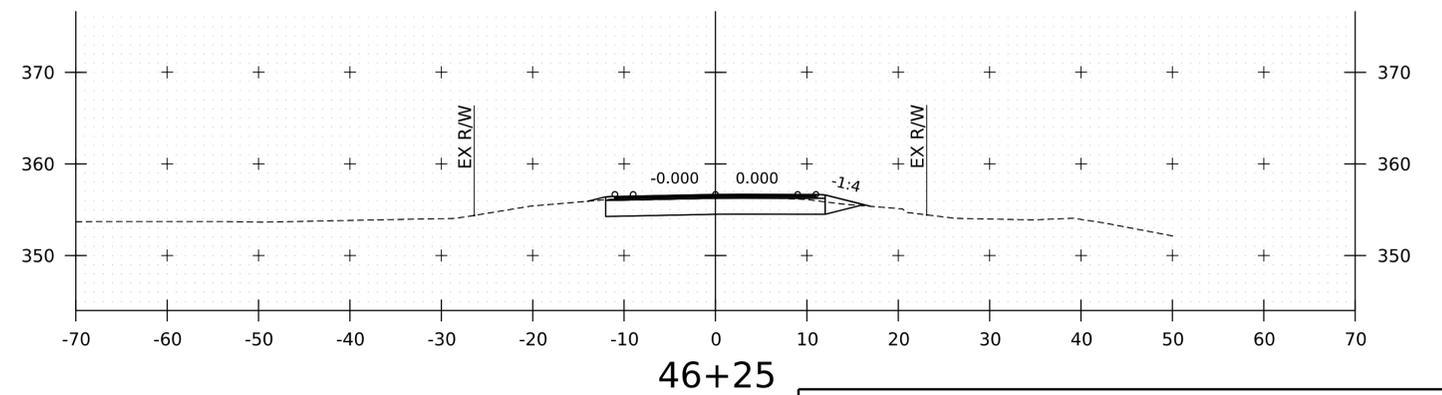
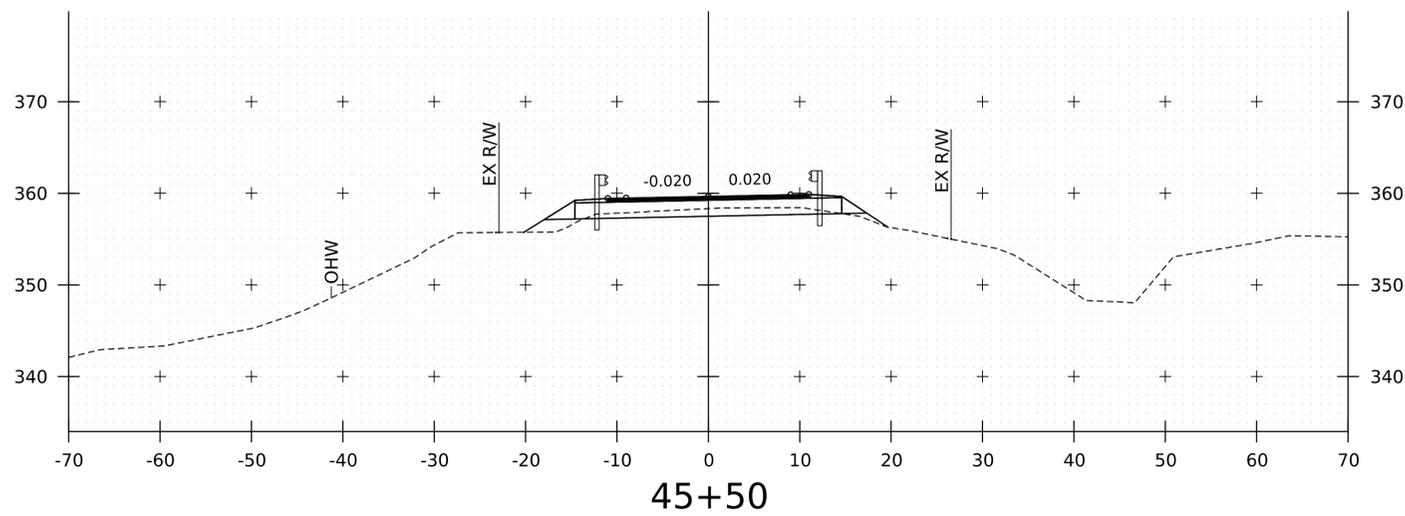
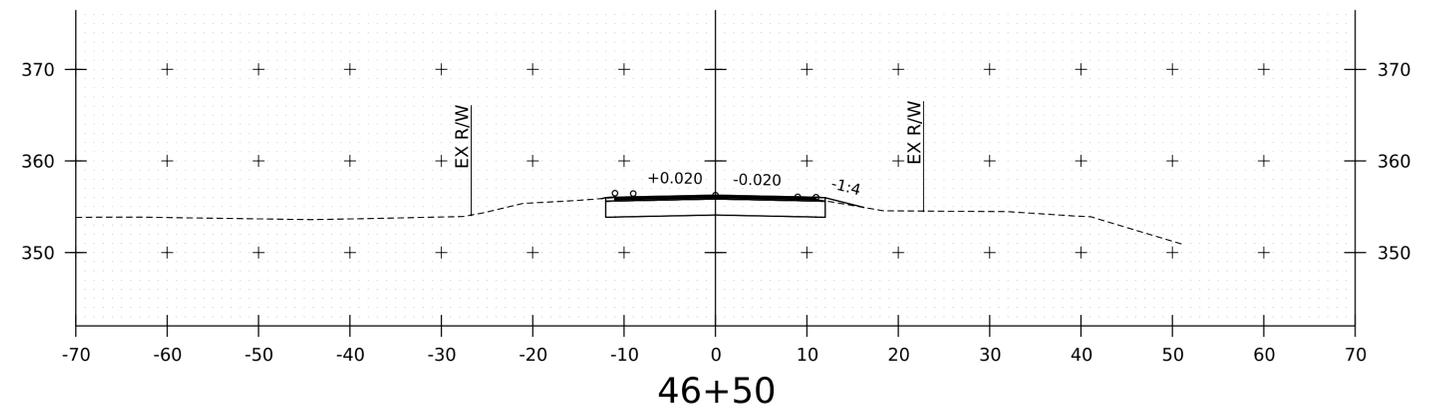
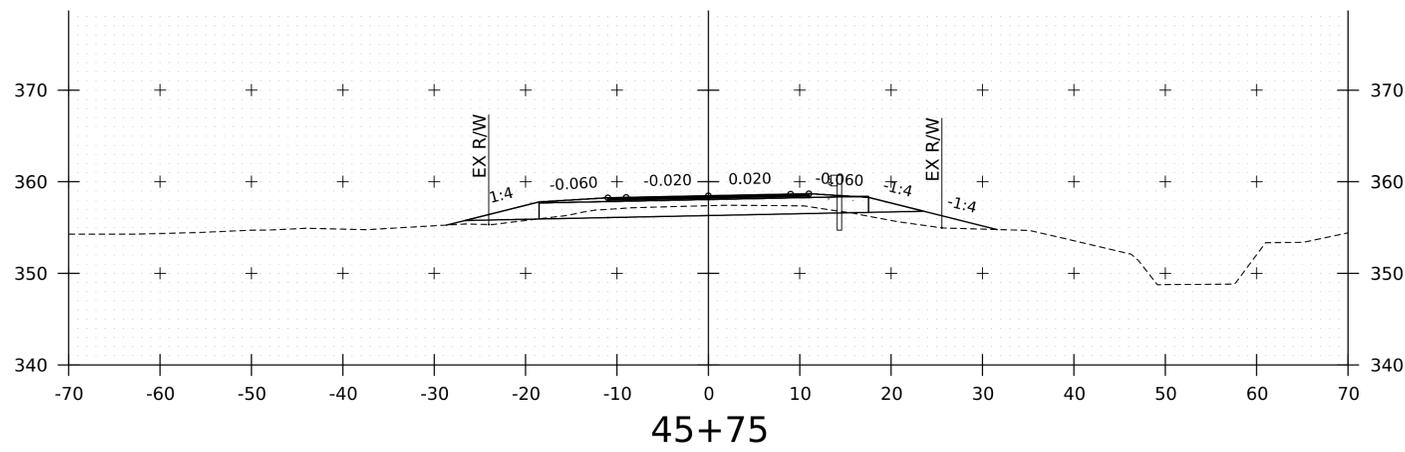
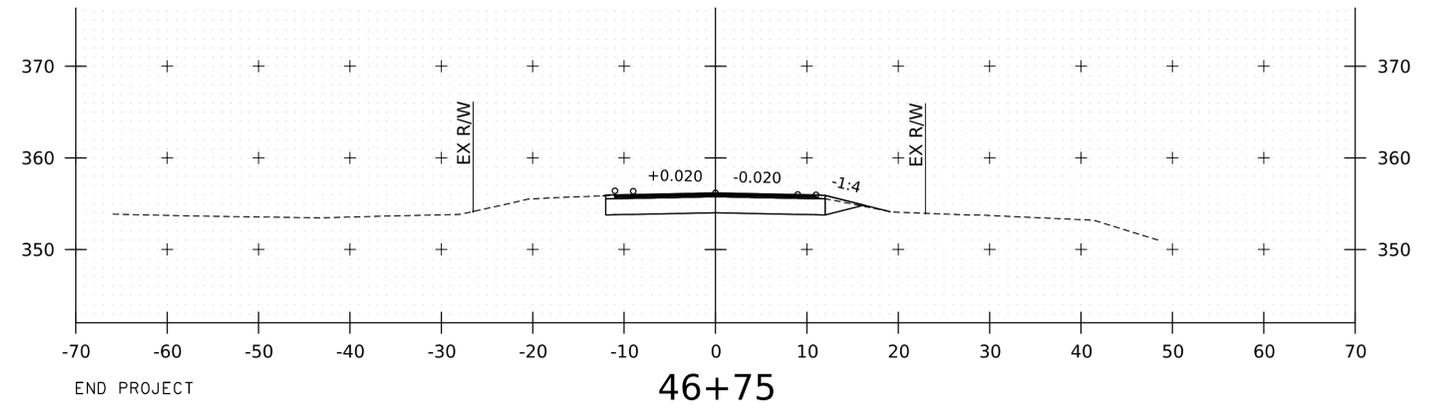
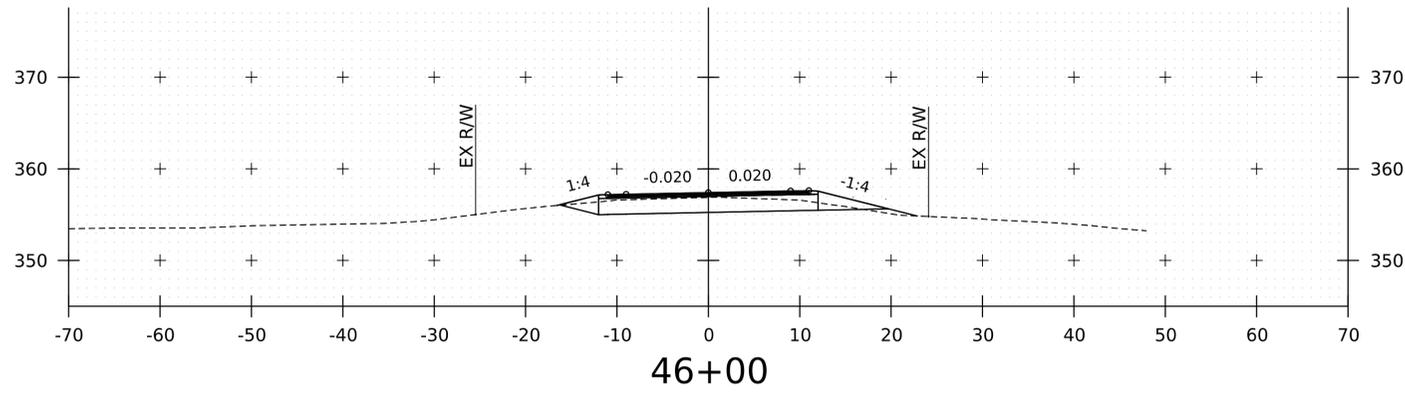


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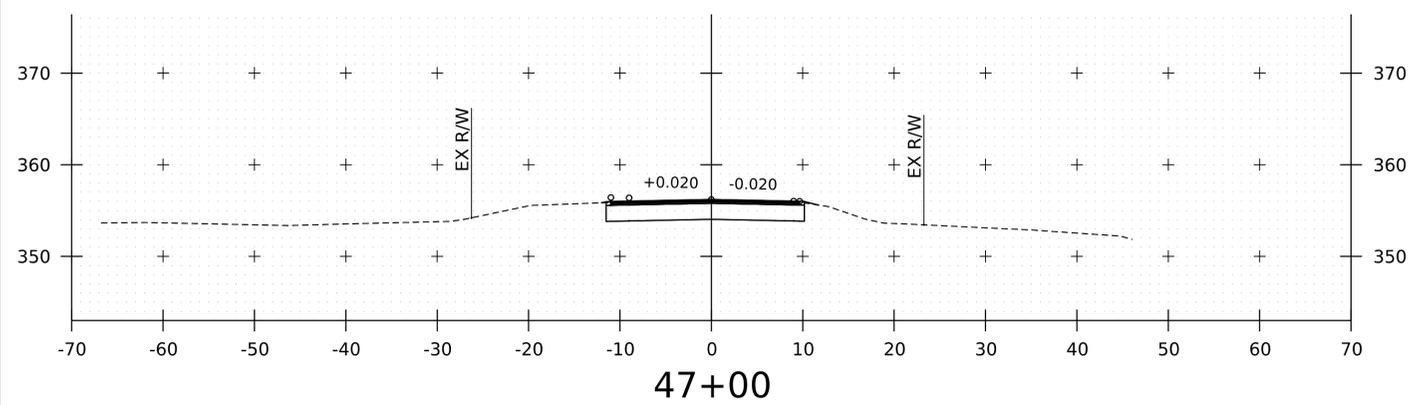
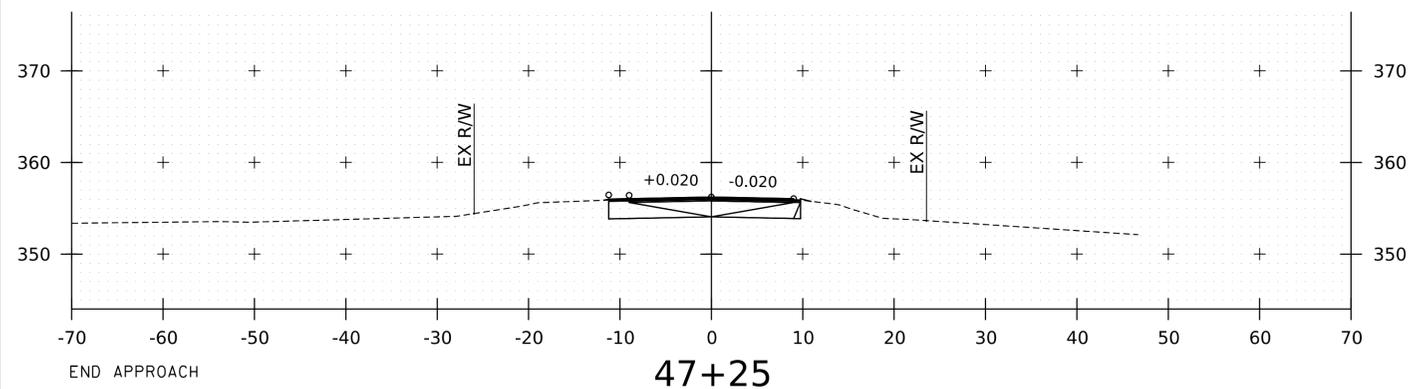
PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	s12j624XS_ML_TH29.dgn	CHECKED BY:	L. CHAMBERLAIN
PROJECT LEADER:	R. YOUNG	SHEET	16 OF 24
DESIGNED BY:	C. FRENCH	MAINLINE CROSS SECTIONS 2	



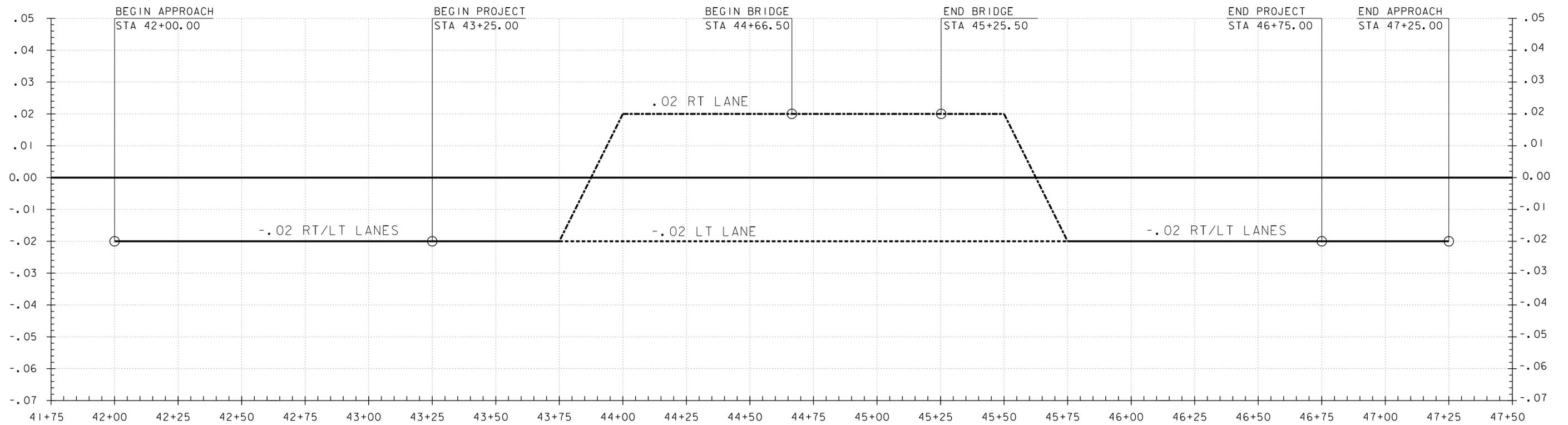
PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	s12j624XS_ML_TH29.dgn	CHECKED BY:	L. CHAMBERLAIN
PROJECT LEADER:	R. YOUNG	SHEET	17 OF 24
DESIGNED BY:	C. FRENCH		
MAINLINE CROSS SECTIONS 3			



PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	s12j624XS_ML_TH29.dgn	CHECKED BY:	L. CHAMBERLAIN
PROJECT LEADER:	R. YOUNG	SHEET	18 OF 24
DESIGNED BY:	C. FRENCH	MAINLINE CROSS SECTIONS 4	



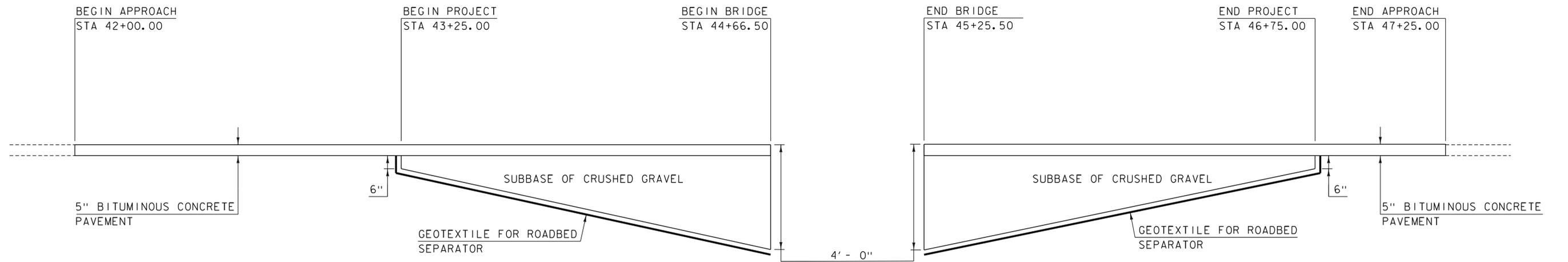
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PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	s12j624XS_ML_TH29.dgn	CHECKED BY:	L. CHAMBERLAIN
PROJECT LEADER:	R. YOUNG	MAINLINE CROSS SECTIONS	5
DESIGNED BY:	C.FRENCH	SHEET	19 OF 24



- R LANE
- L LANE
- \_\_\_\_\_ R & L LANE

**BANKING DIAGRAM**

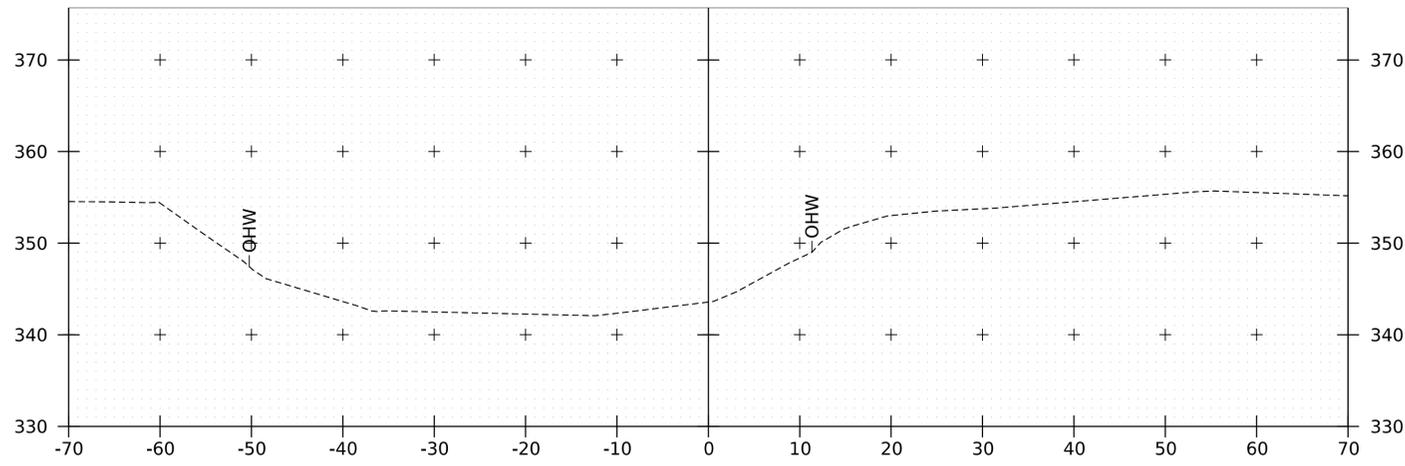
SCALE: HORIZONTAL: 1" = 20' - 0"  
 VERTICAL: 1" = 1,250' - 0"



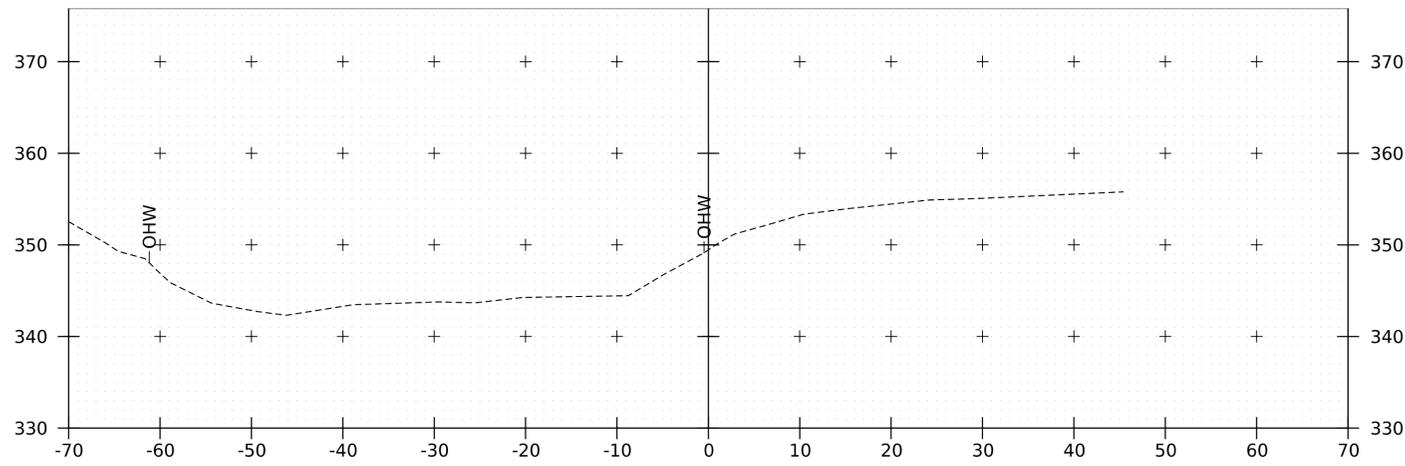
**MATERIAL TRANSITION**

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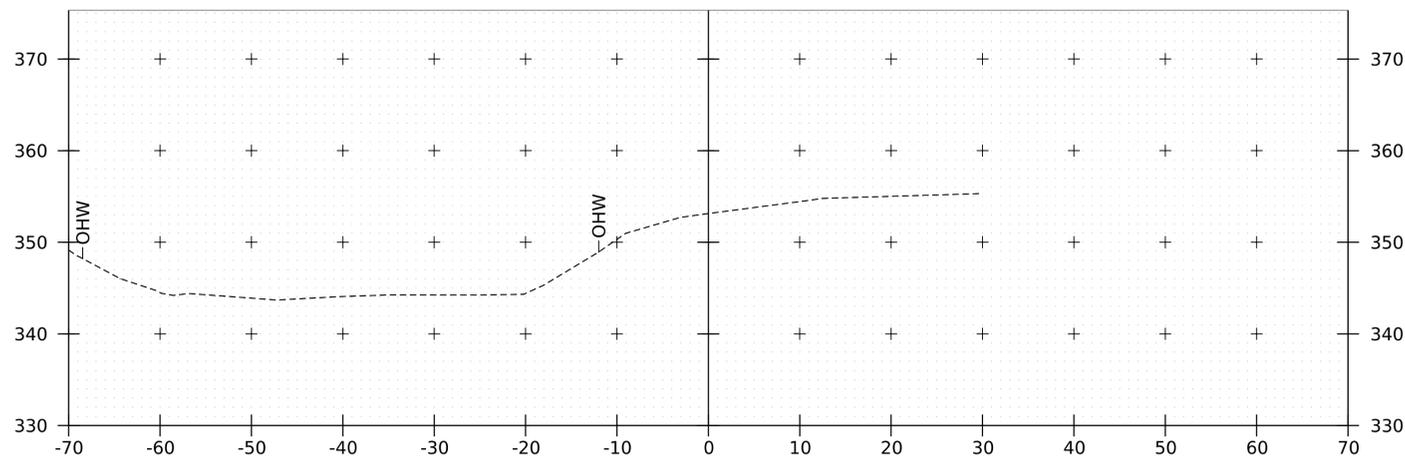
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PROJECT NUMBER: BO 1448(46)	DRAWN BY: R. PELLETT
FILE NAME: sl2j624bank-mat.dgn	DESIGNED BY: C. FRENCH
PROJECT LEADER: R. YOUNG	CHECKED BY: C. FRENCH
BANKING & MATERIAL TRANSITION DIAGRAMS SHEET 20 OF 24	



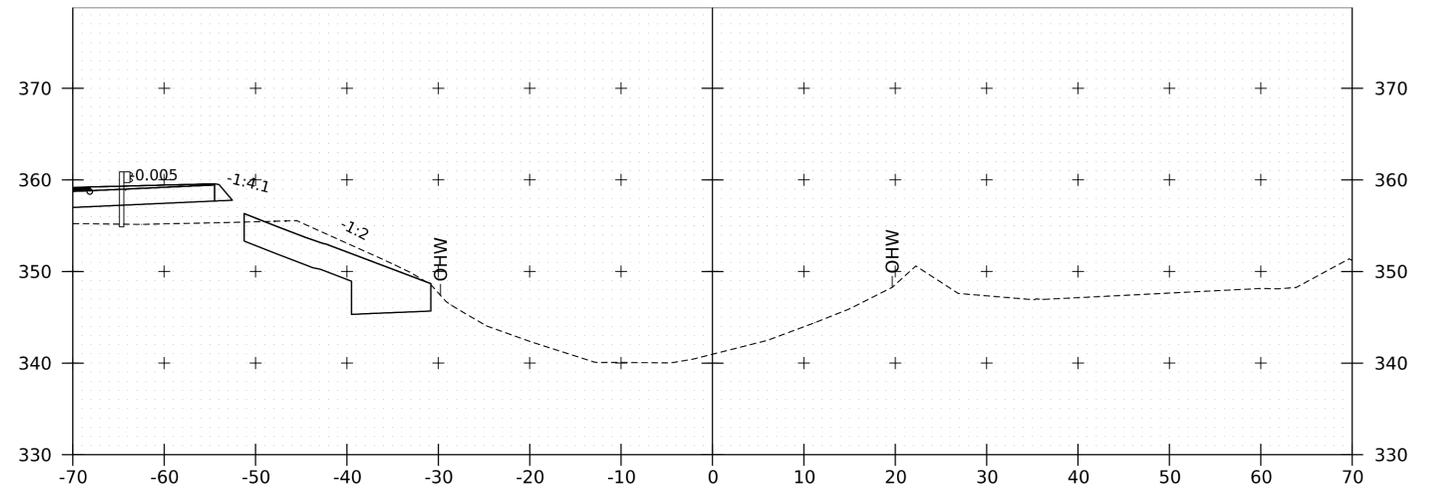
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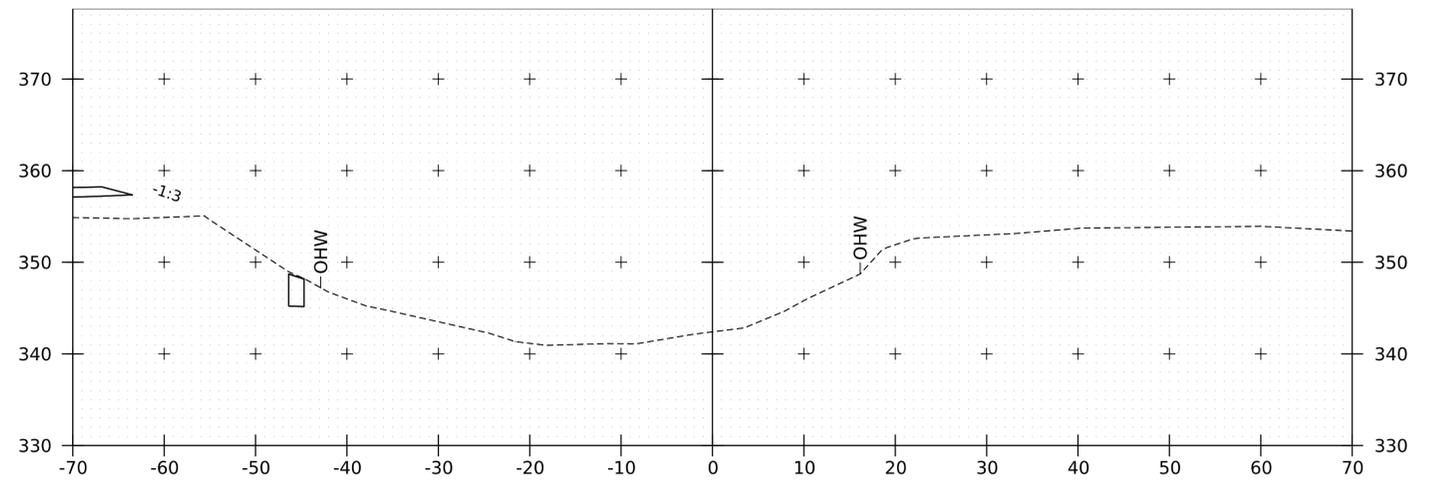
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50+00

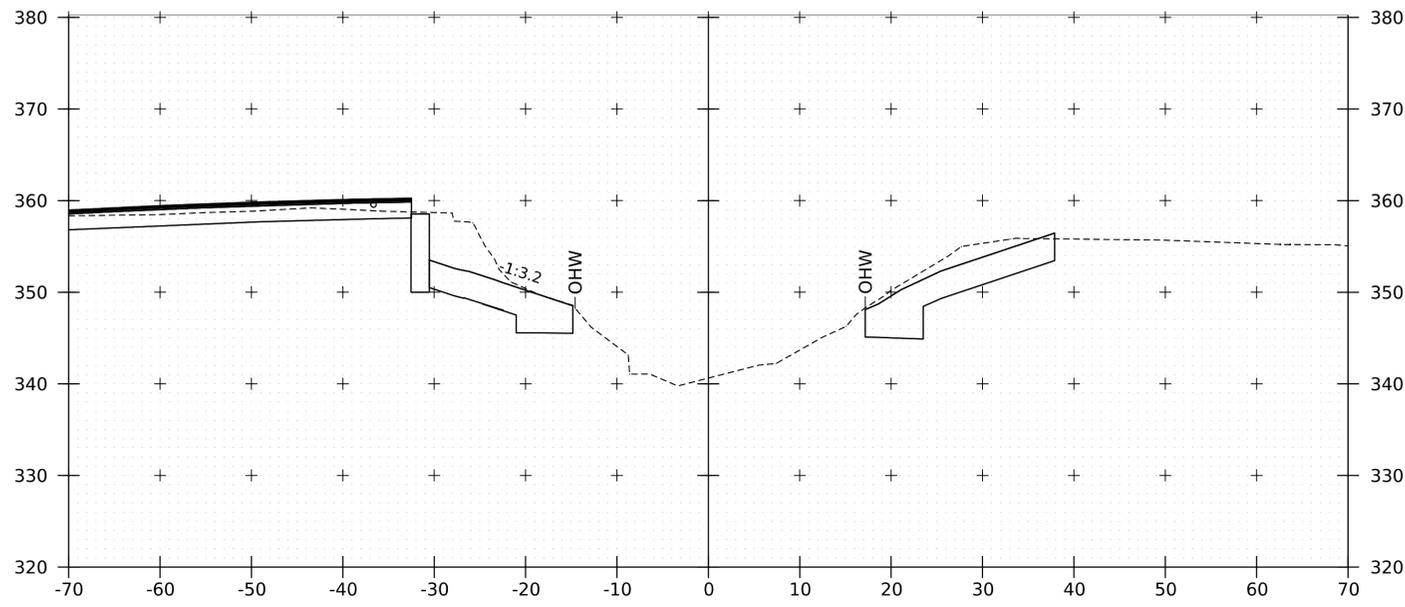


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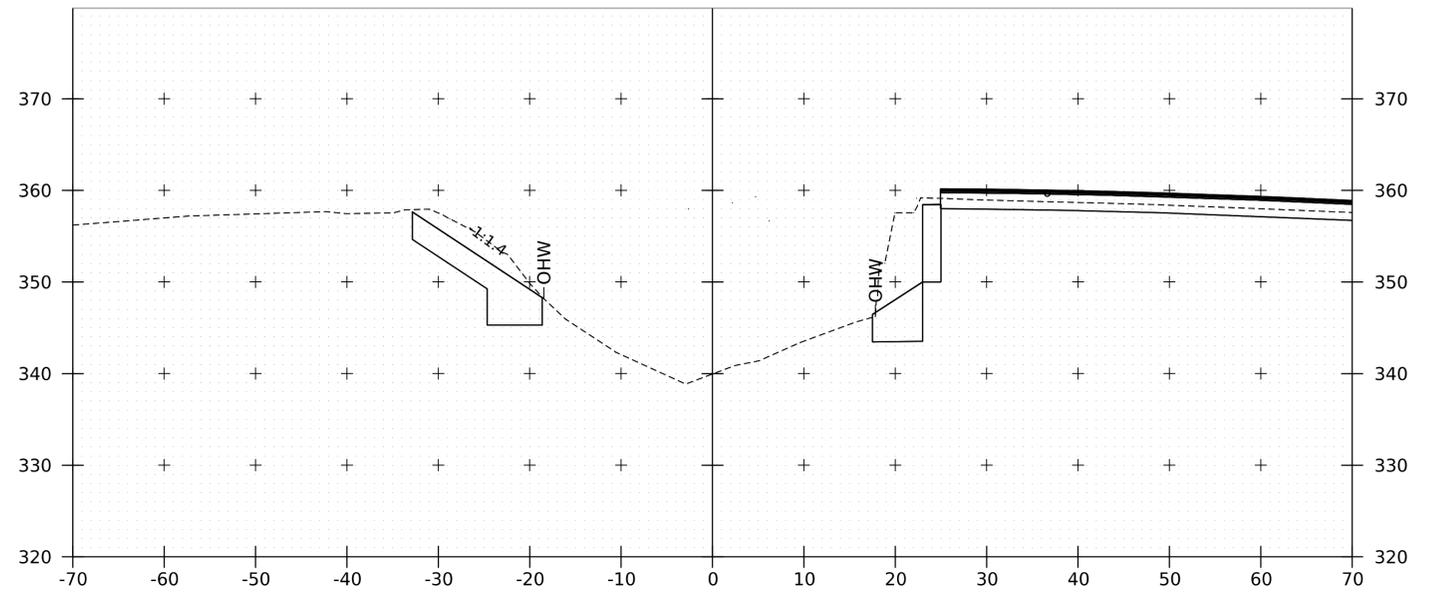


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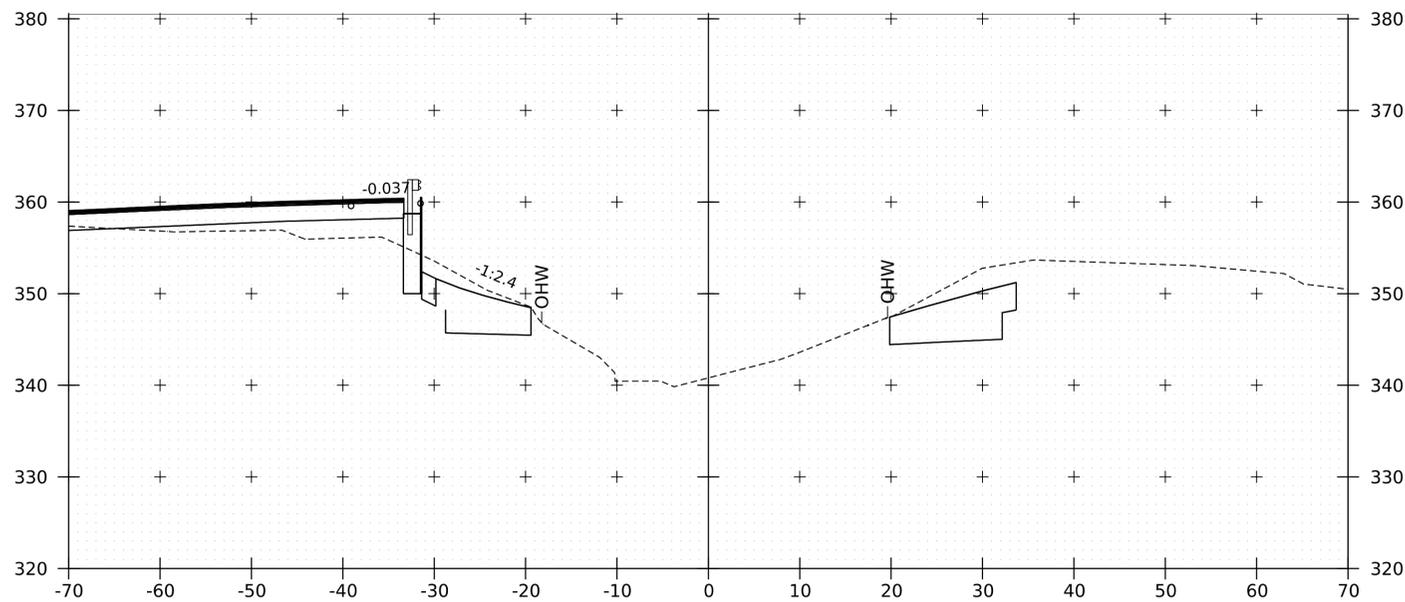
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PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	12j624XS_CH_TH29.dgn	CHECKED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	SHEET	21 OF 24
DESIGNED BY:	C. FRENCH	CHANNEL CROSS SECTIONS 1	



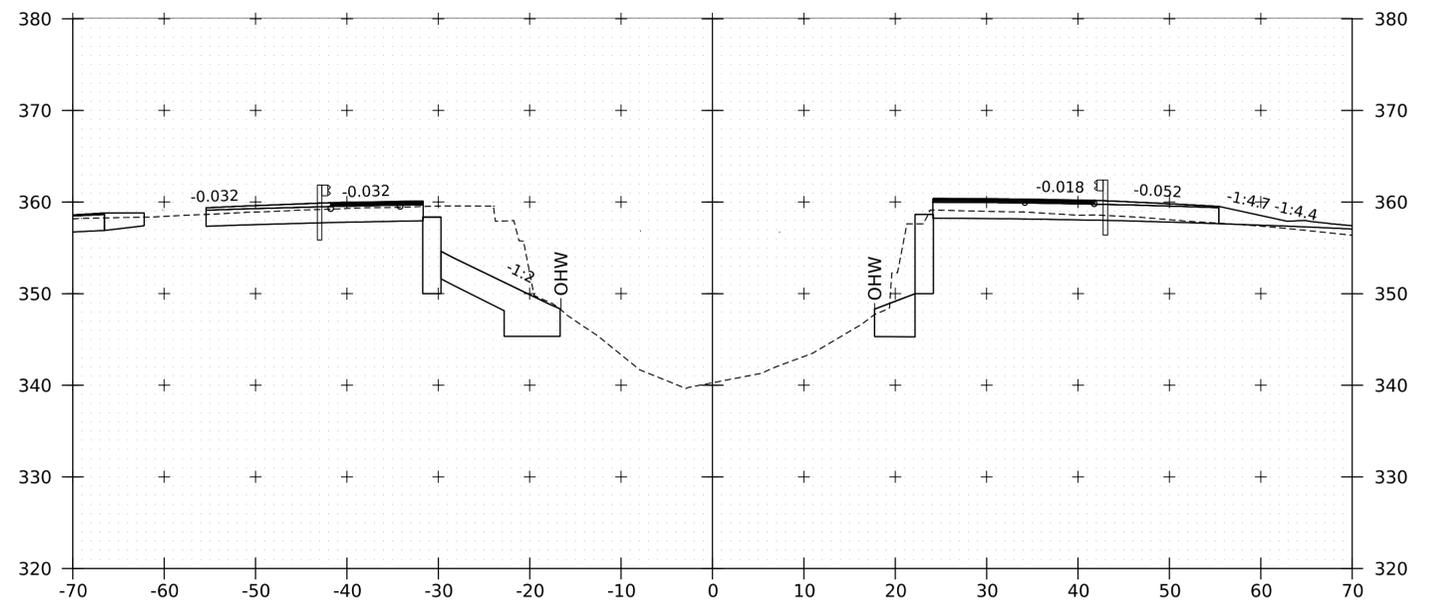
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51+10

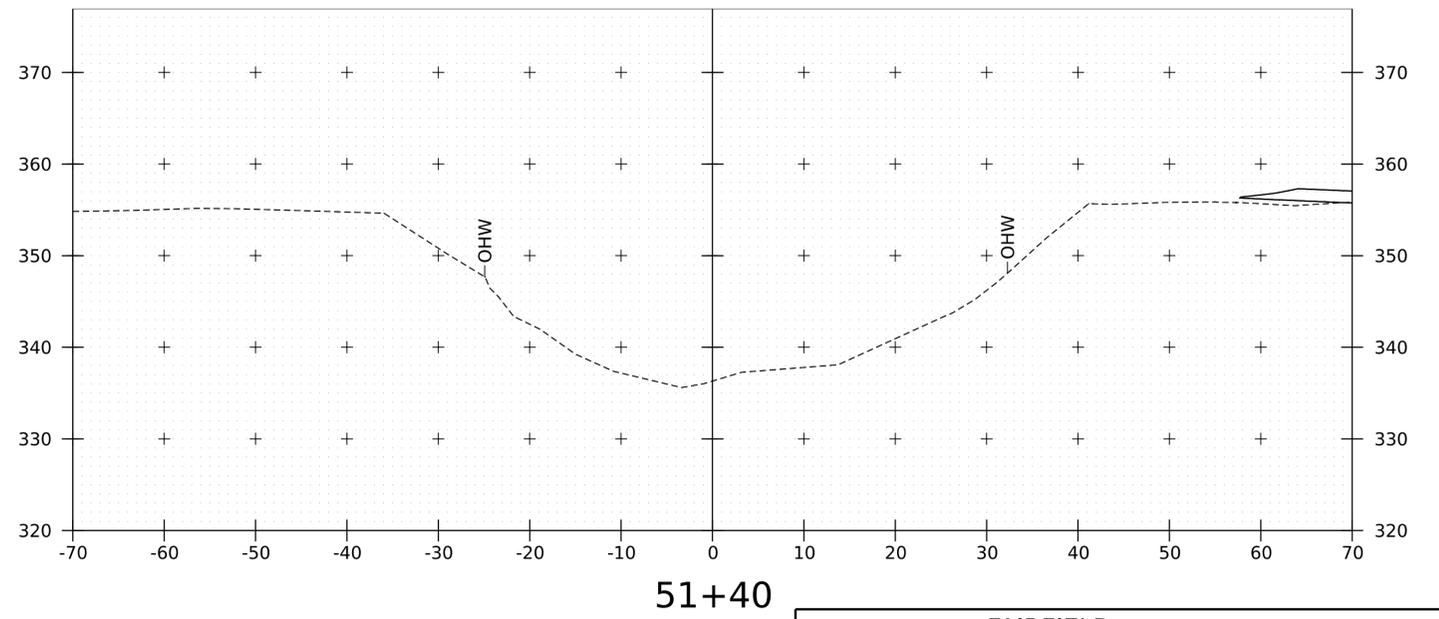
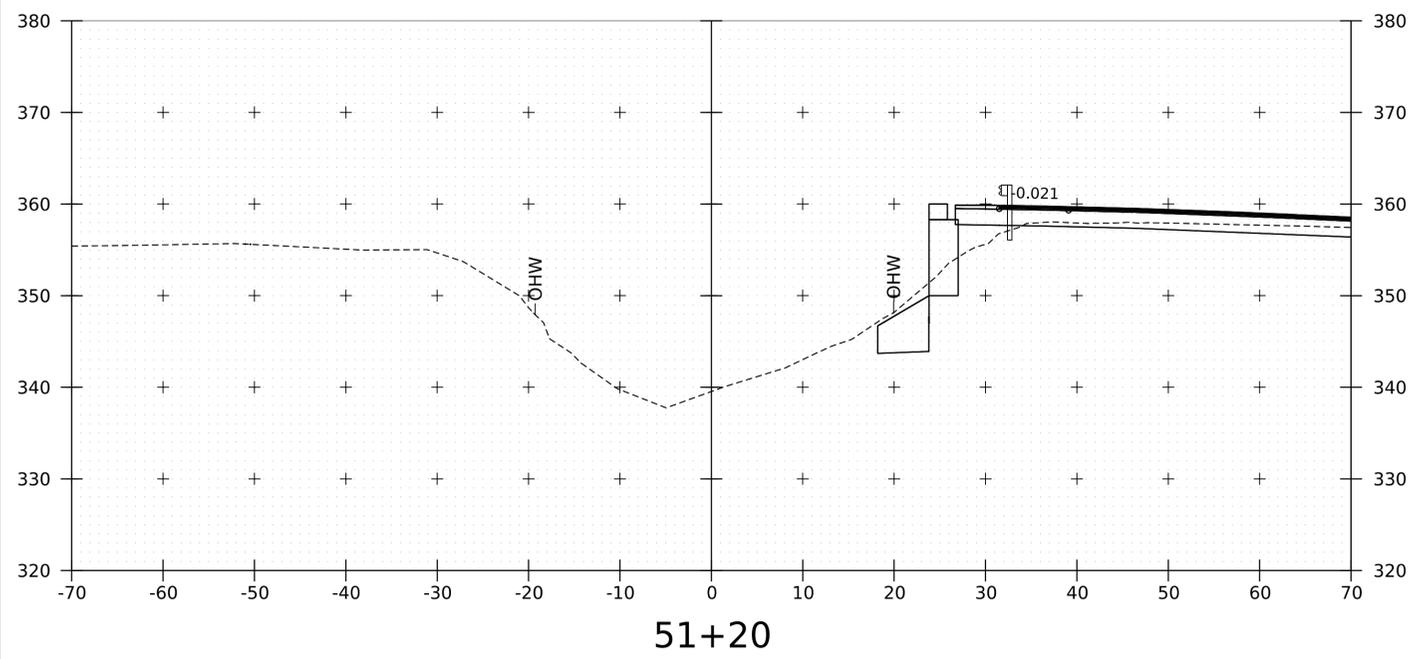
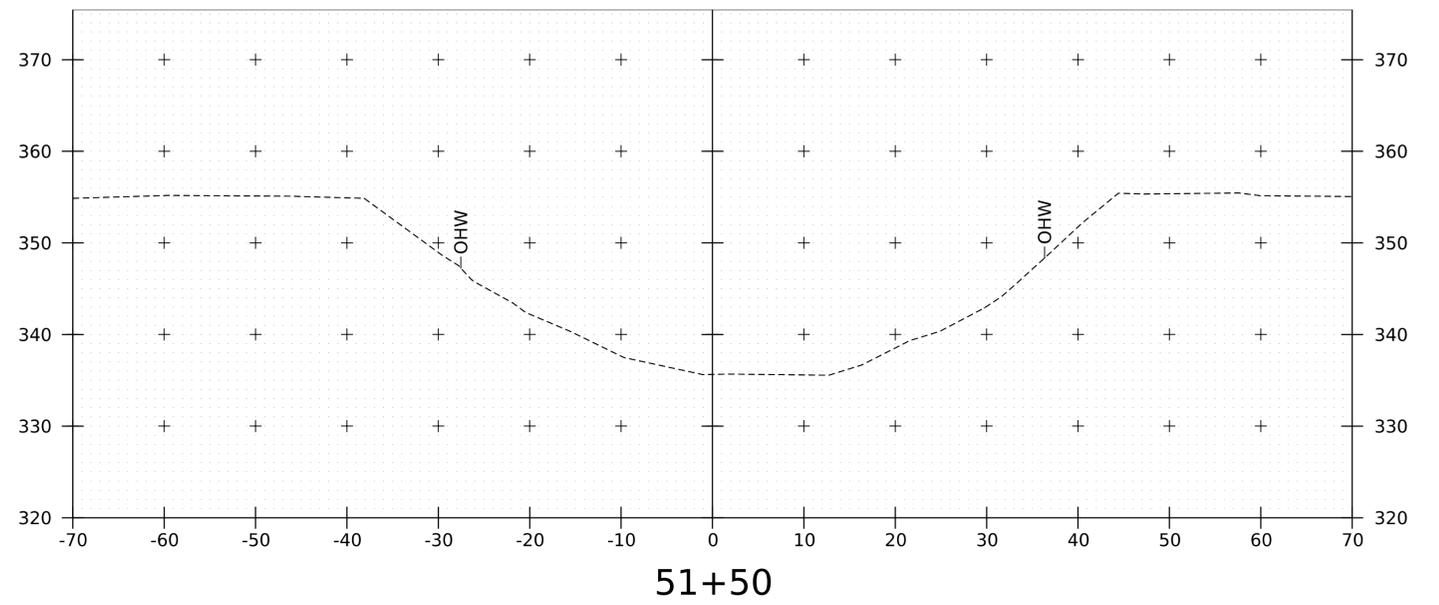
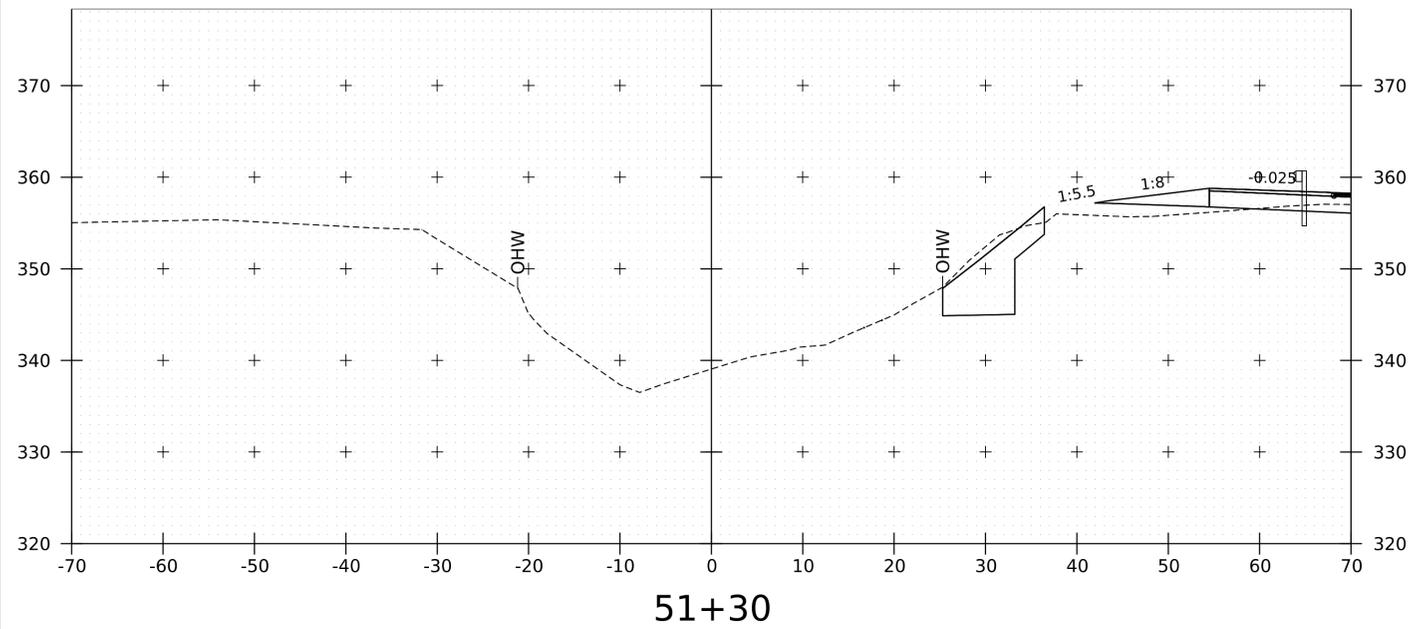


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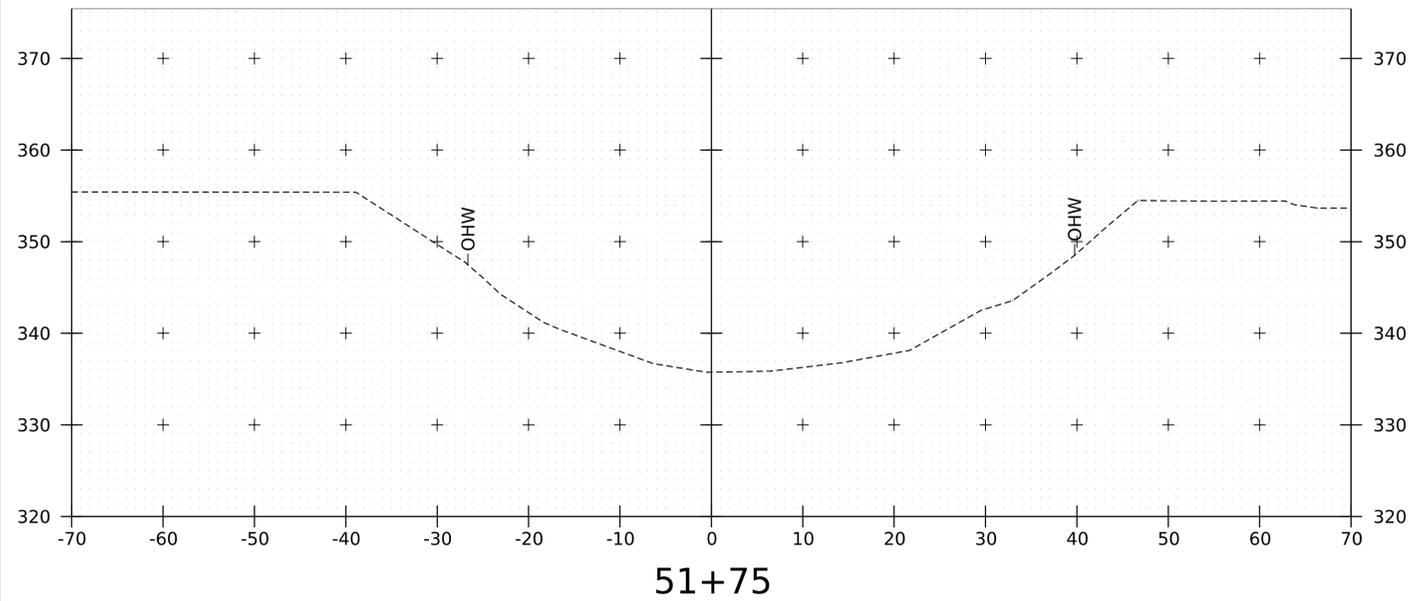
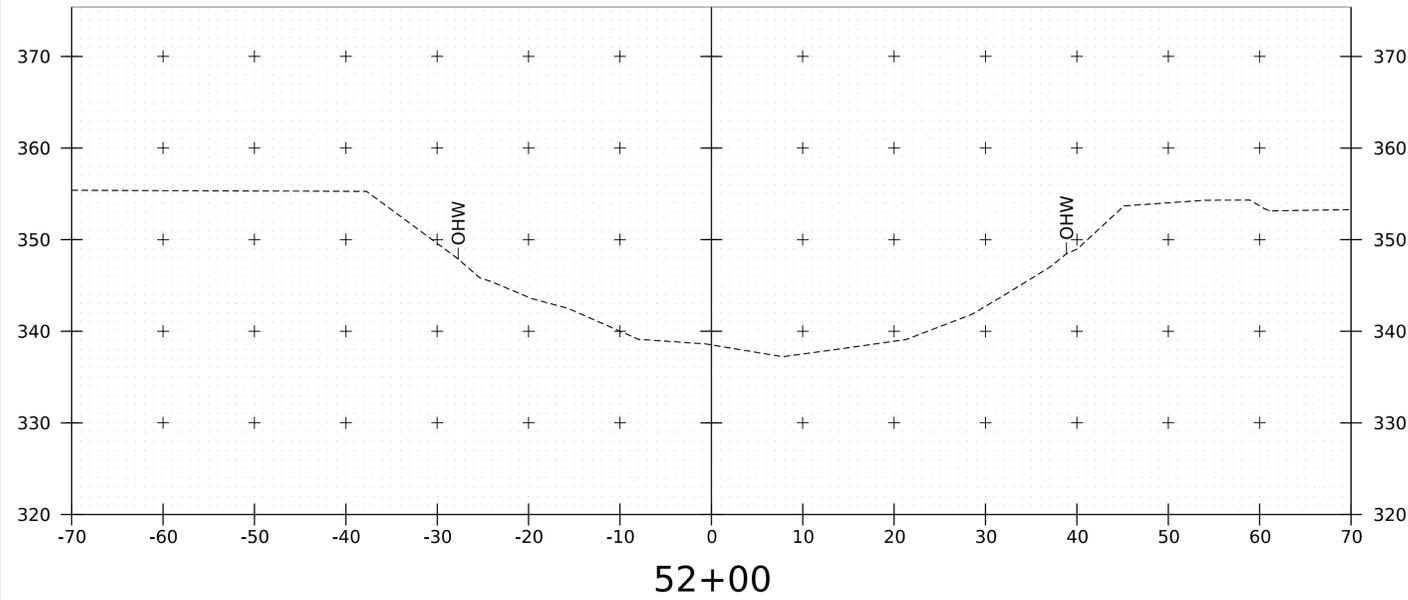


51+00

PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	12j624XS_CH_TH29.dgn	CHECKED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	SHEET	22 OF 24
DESIGNED BY:	C. FRENCH		
CHANNEL CROSS SECTIONS 2			



PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1446(46)	DRAWN BY:	C. FRENCH
FILE NAME:	12j624XS_CH_TH29.dgn	CHECKED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	SHEET	23 OF 24
DESIGNED BY:	C. FRENCH		
CHANNEL CROSS SECTIONS 3			



PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-FEB-2024
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	12j624XS_CH_TH29.dgn	CHECKED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	CHANNEL CROSS SECTIONS 4	SHEET 24 OF 24
DESIGNED BY:	C. FRENCH		