

REVIEWER NOTES:

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

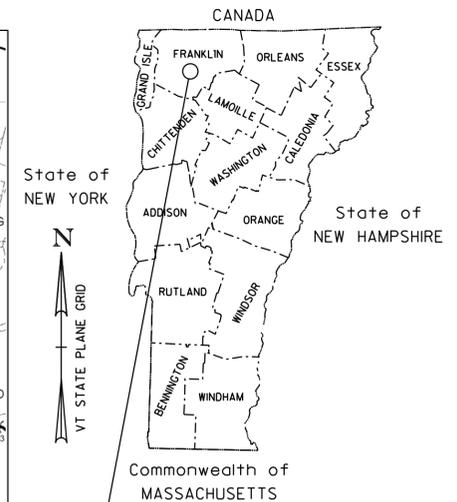
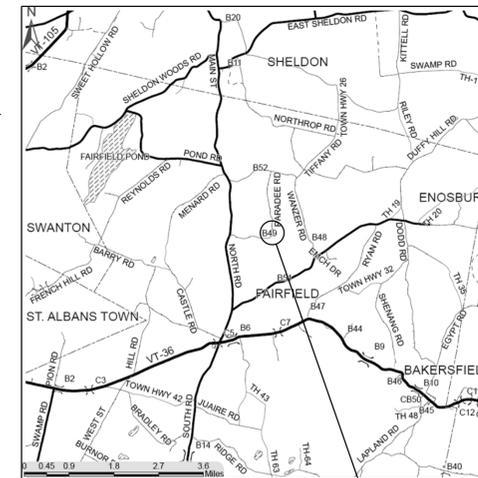
TOWN OF FAIRFIELD
COUNTY OF FRANKLIN

ROUTE NO : TOWN HIGHWAY 29 BRIDGE NO : 49

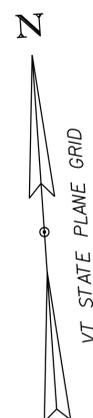
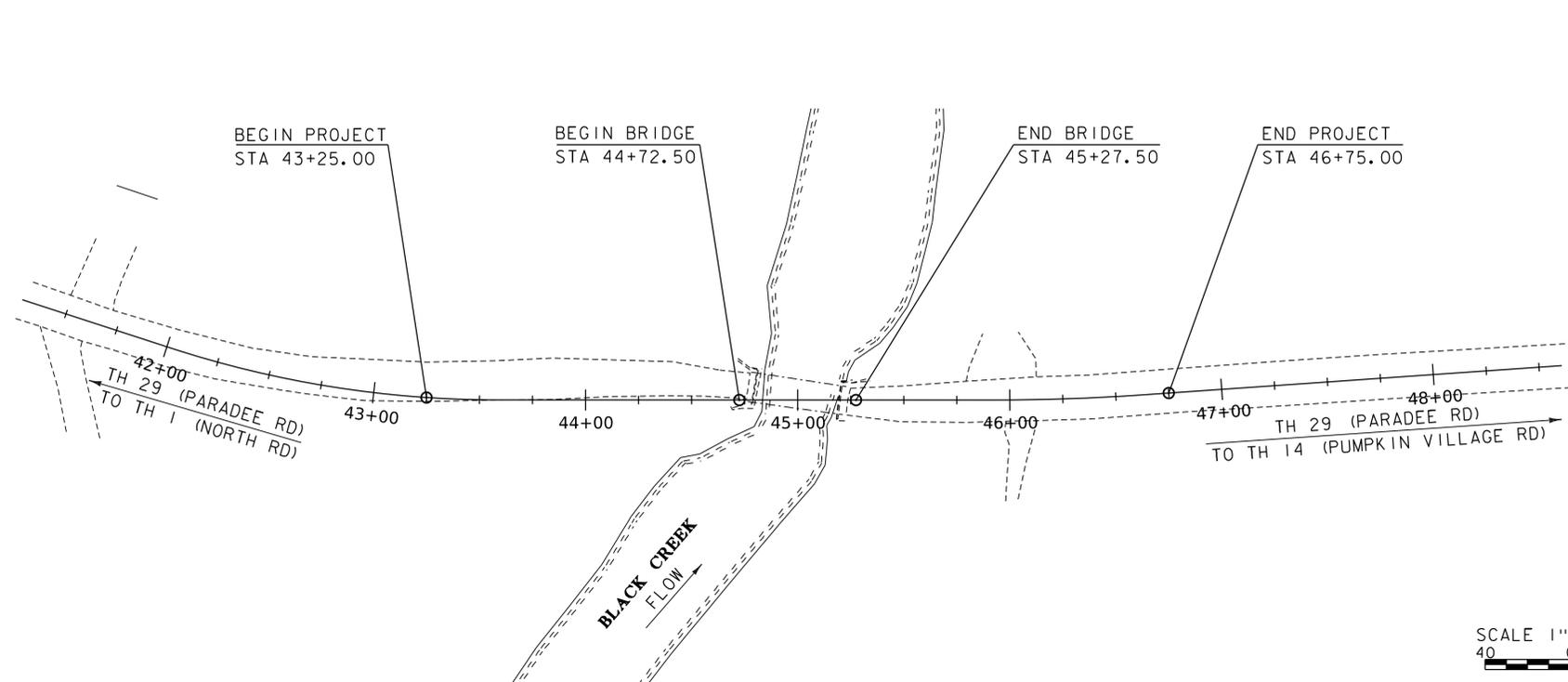
PROJECT LOCATION : IN THE TOWN OF FAIRFIELD ON TOWN HIGHWAY 29 (PARADEE RD) OVER
BLACK CREEK APPROXIMATELY 0.7 MILES EAST OF INTERSECTION WITH
TOWN HIGHWAY 1 (NORTH ROAD)

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING BRIDGE WITH A NEW BRIDGE ON EXISTING
ALIGNMENT, WITH RELATED CHANNEL AND ROADWAY WORK.

LENGTH OF STRUCTURE : 55.00 FEET.
LENGTH OF ROADWAY : 295.00 FEET.
LENGTH OF PROJECT : 350.00 FEET.



FAIRFIELD
BO 1448 (46)

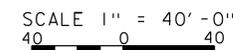


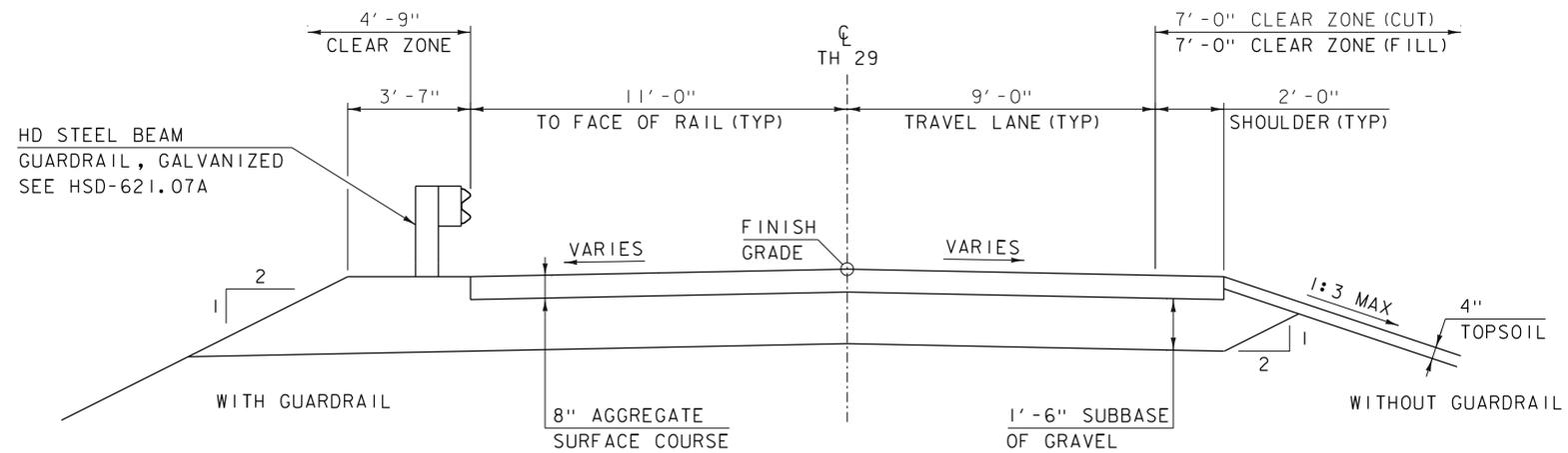
CONCEPTUAL PLANS
8-MAR-2023

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 :	06/2021
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (11)

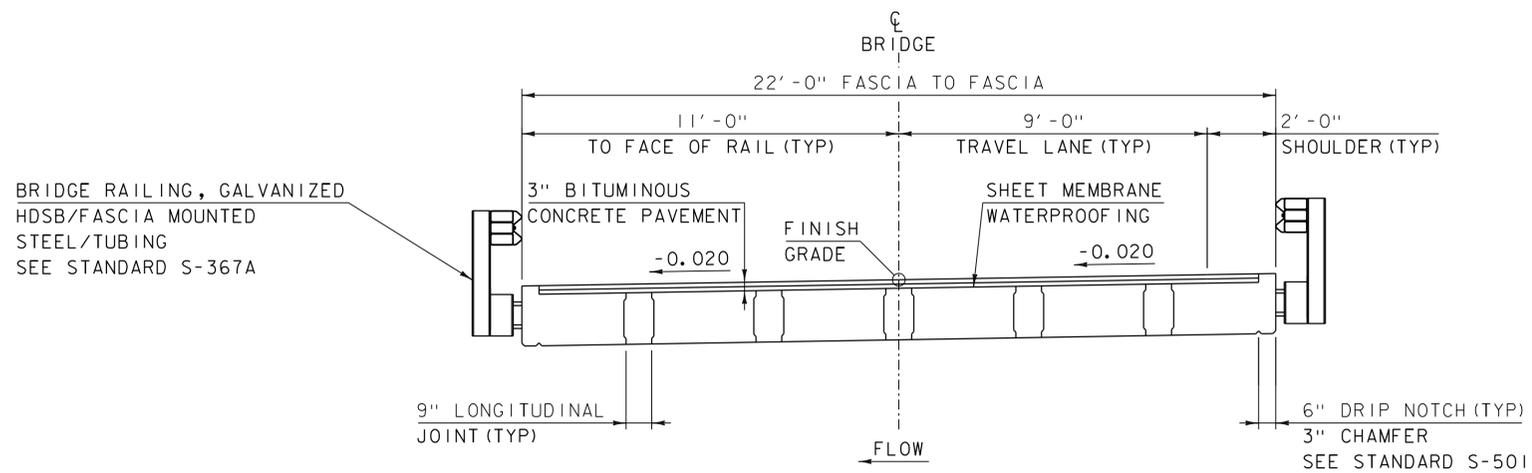
HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER :	ROB YOUNG, P.E.
PROJECT NAME :	FAIRFIELD
PROJECT NUMBER :	BO 1448 (46)
SHEET 1 OF 17 SHEETS	





ROADWAY TYPICAL SECTION

SCALE 3/8" = 1'-0"



PROPOSED 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	
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

PLOT DATE: 8-MAR-2023
DRAWN BY: R. PELLETT
CHECKED BY: -----
SHEET 3 OF 17

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 — x — x — BF — x — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	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	FILTER CURTAIN
— x — x — x — x —	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

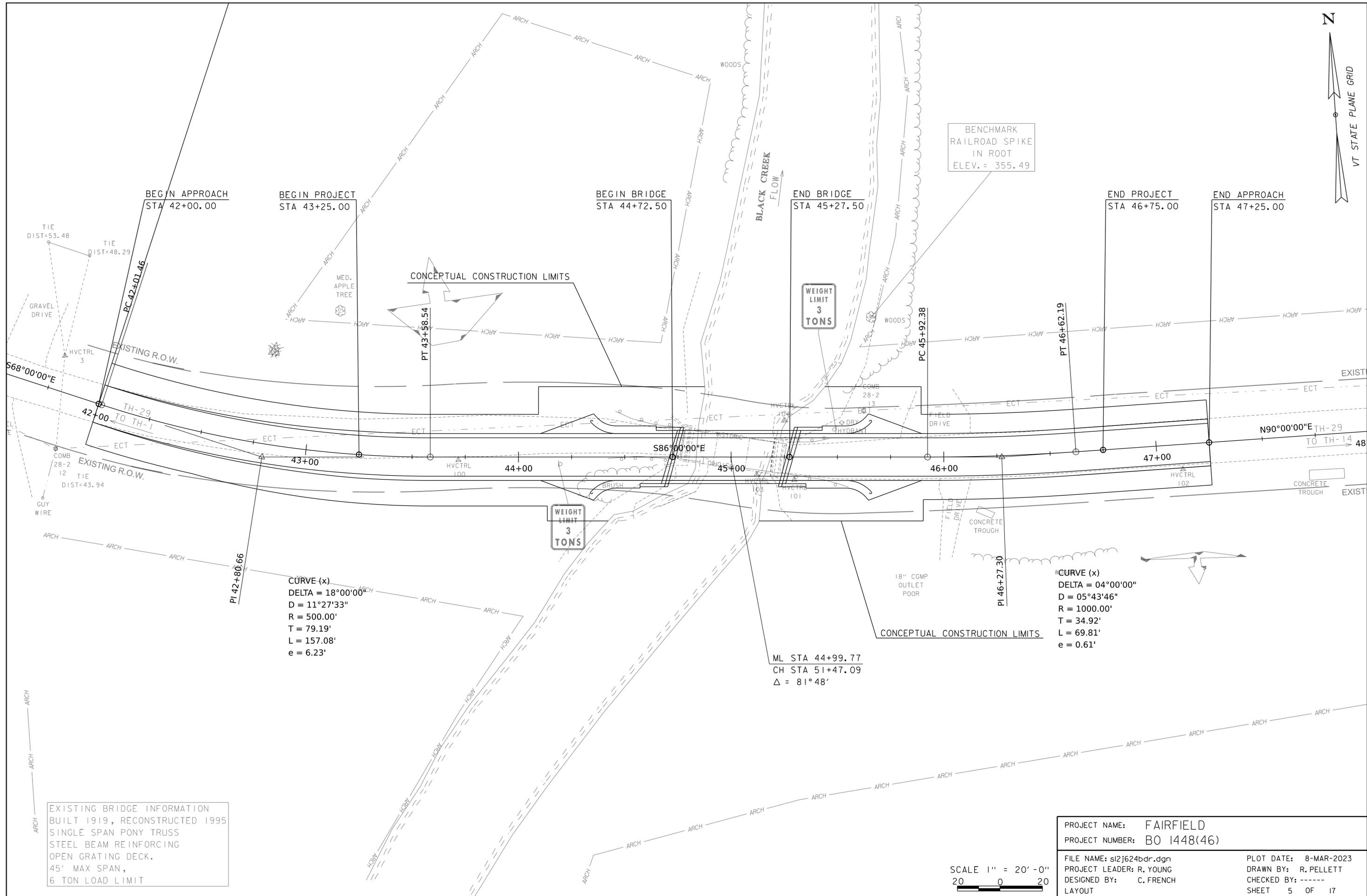
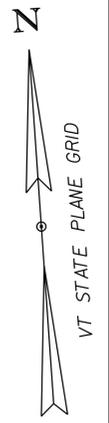
**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**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: 8-MAR-2023  
PROJECT LEADER: R. YOUNG DRAWN BY: R. PELLETT  
DESIGNED BY: C. FRENCH CHECKED BY: -----  
CONVENTIONAL SYMBOLGY LEGEND SHEET 4 OF 17



BEG/N APPROACH  
STA 42+00.00

BEGIN PROJECT  
STA 43+25.00

BEGIN BRIDGE  
STA 44+72.50

END BRIDGE  
STA 45+27.50

END PROJECT  
STA 46+75.00

END APPROACH  
STA 47+25.00

BENCHMARK  
RAILROAD SPIKE  
IN ROOT  
ELEV. = 355.49

CONCEPTUAL CONSTRUCTION LIMITS

WEIGHT  
LIMIT  
3  
TONS

WEIGHT  
LIMIT  
3  
TONS

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

ML STA 44+99.77  
 CH STA 51+47.09  
 Δ = 81°48'

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

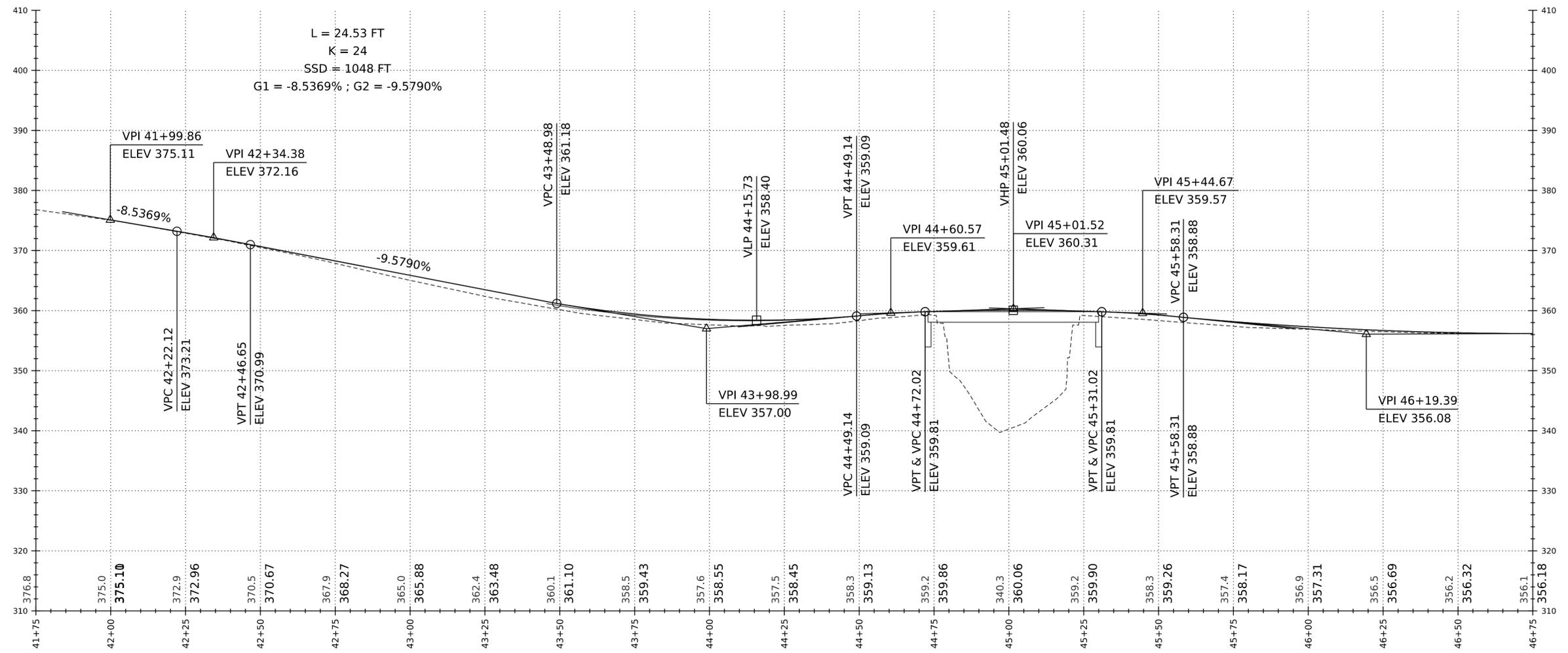
EXISTING BRIDGE INFORMATION  
 BUILT 1919, RECONSTRUCTED 1995  
 SINGLE SPAN PONY TRUSS  
 STEEL BEAM REINFORCING  
 OPEN GRATING DECK.  
 45' MAX SPAN,  
 6 TON LOAD LIMIT

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

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

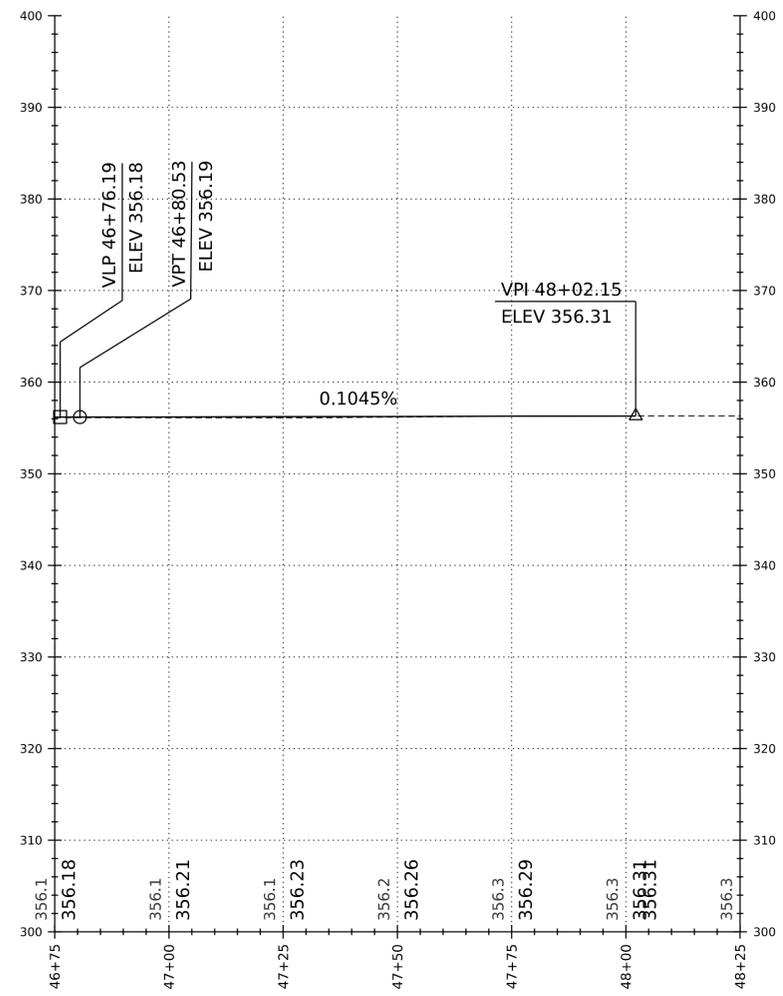
PLOT DATE: 8-MAR-2023  
 DRAWN BY: R. PELLETT  
 CHECKED BY: -----  
 SHEET 5 OF 17

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



TH29 PROFILE

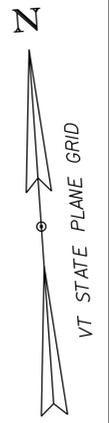
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624Profile.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
PROFILE 1	SHEET 6 OF 17



TH29 PROFILE CONTINUED

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

FILE NAME: sl2j624Profile.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
PROFILE 2	SHEET 7 OF 17



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

STATE OF VERMONT

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

HOWRIGAN, DAVID & PEGGY

STATE OF VERMONT

GRAVEL DRIVE

EXISTING R.O.W.

TH-29  
42+00 TO TH-1

EXISTING R.O.W.

43+00

44+00

46+00

47+00

TH-29  
TO TH-14 48

CONCRETE TROUGH

18" CGMP  
OUTLET  
POOR

CONCRETE TROUGH

DRY HYDRANT

COMB 28-2 13

HISTORIC

BRUSH

WOODS

WOODS

WOODS

BLACK CREEK  
FLOW

53+00

52+00

51+00

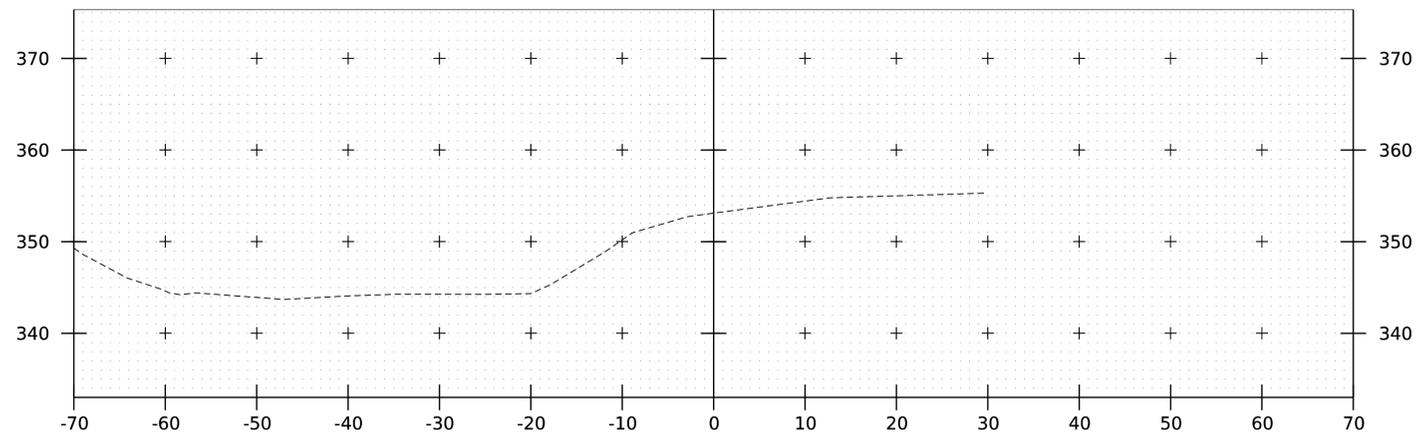
50+00

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

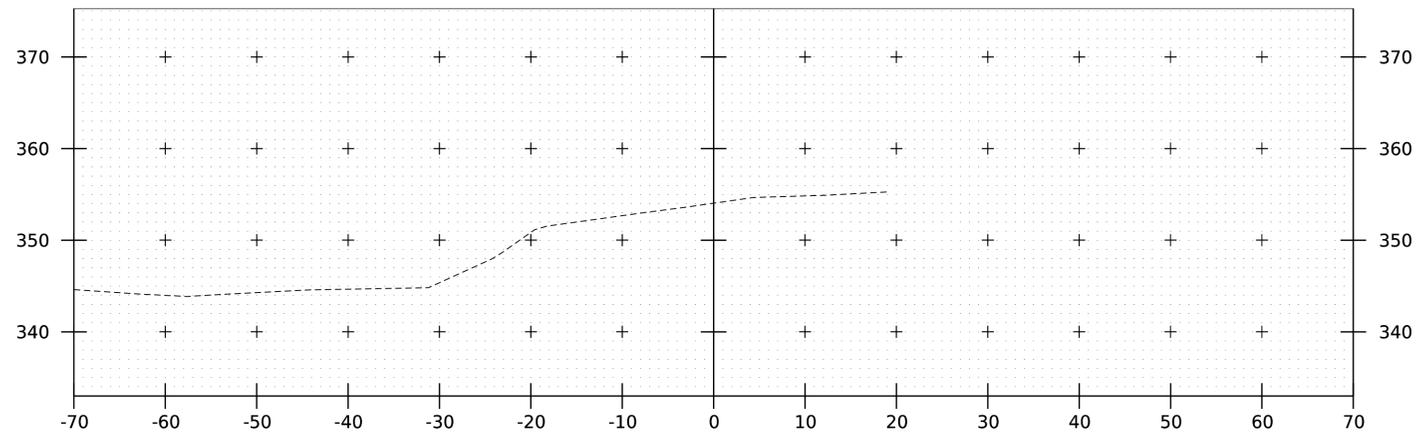
PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: BO 1448(46)

FILE NAME: sl2j624bdr_epsc.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
RESOURCE SITE PLAN

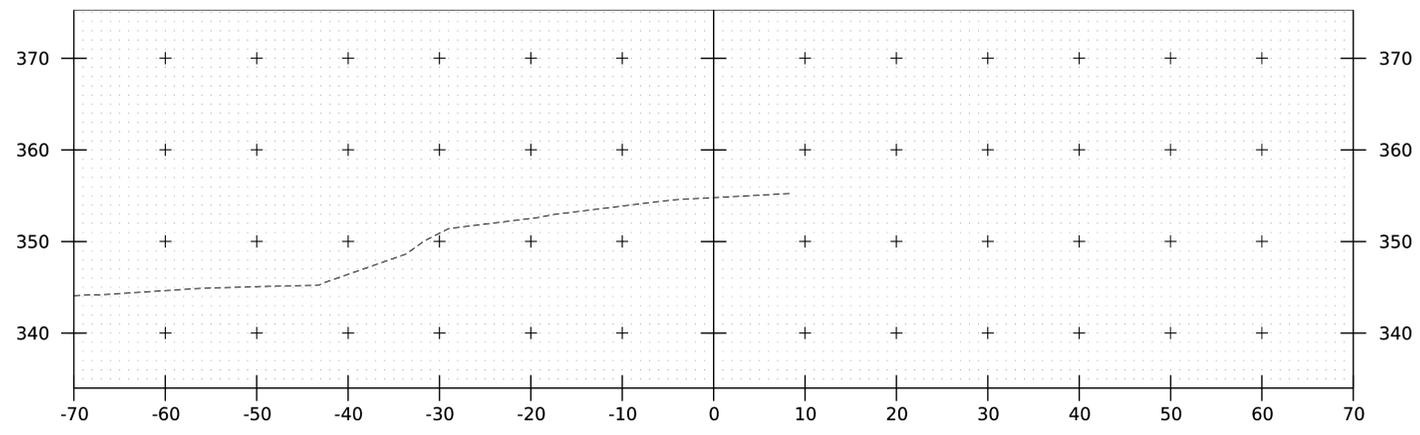
PLOT DATE: 8-MAR-2023  
DRAWN BY: R. PELLETT  
CHECKED BY: -----  
SHEET 8 OF 17



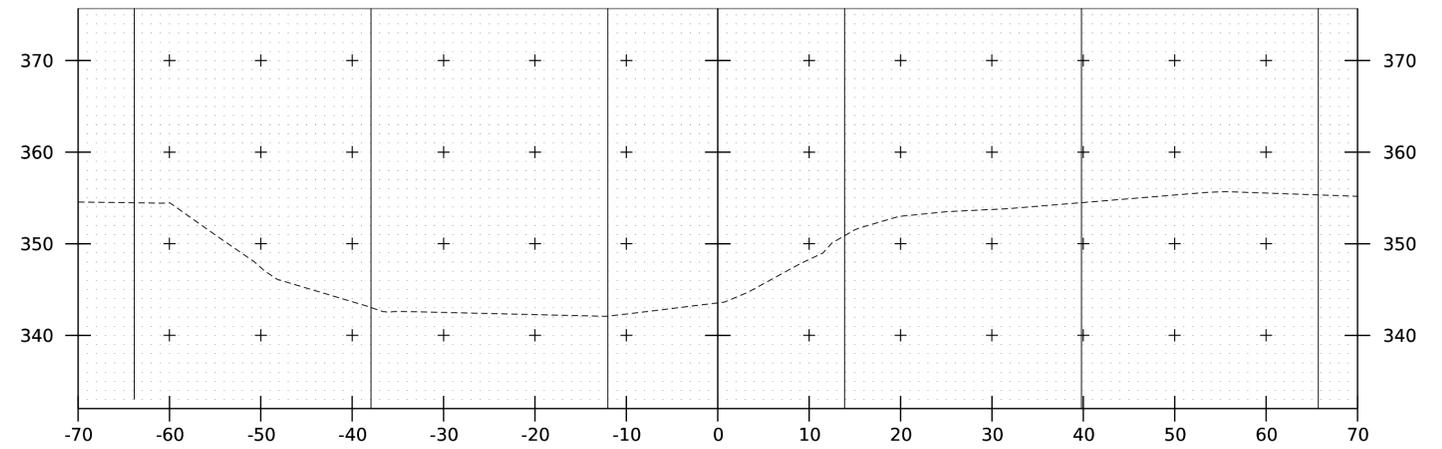
50+50



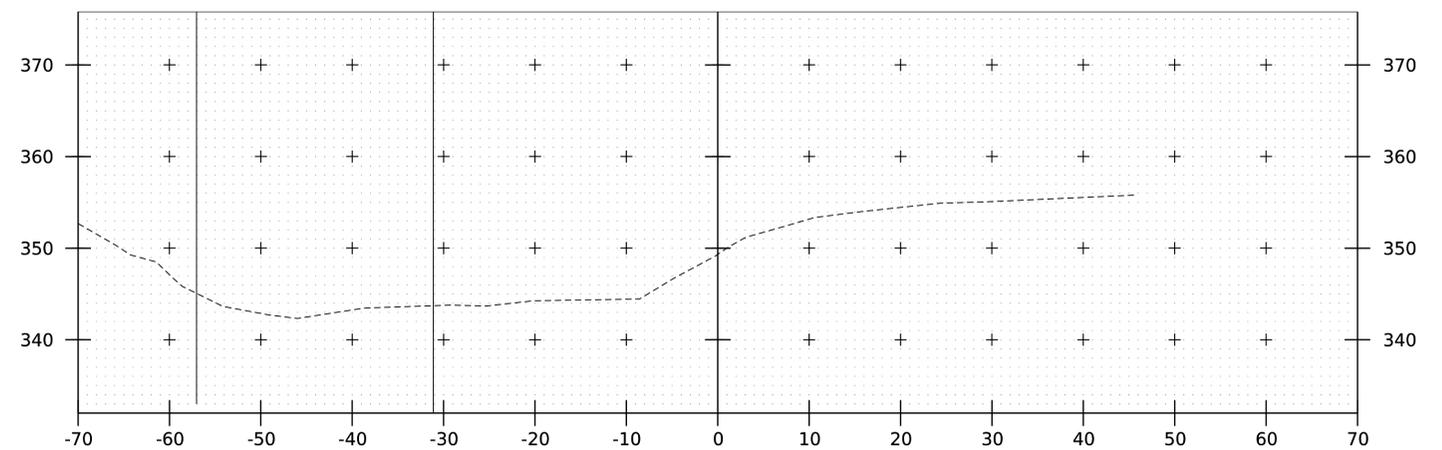
50+25



50+00

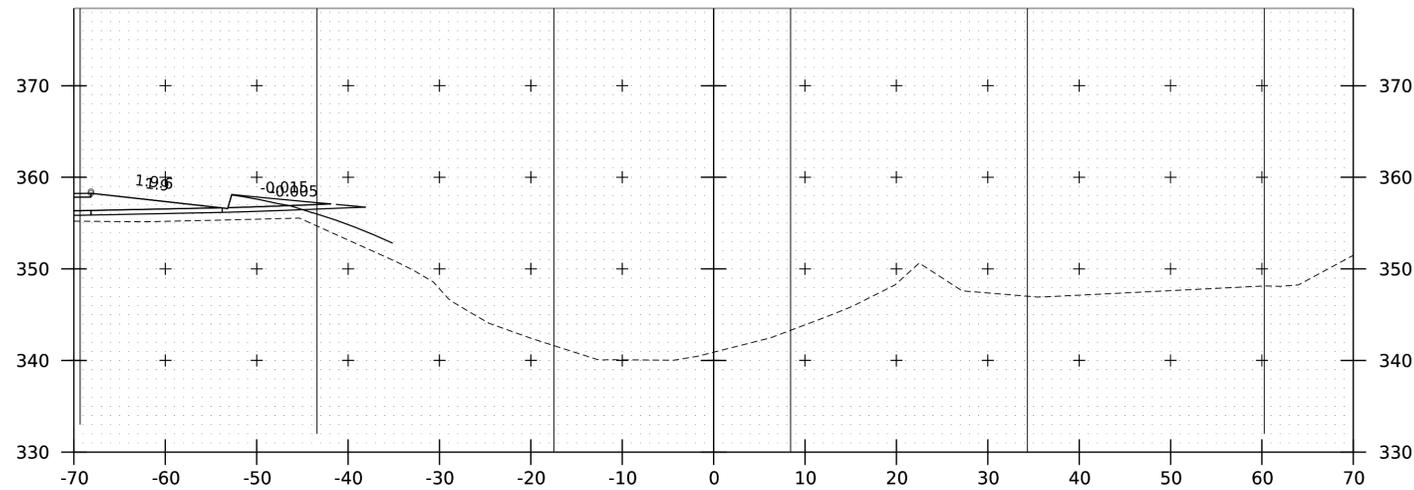


51+00

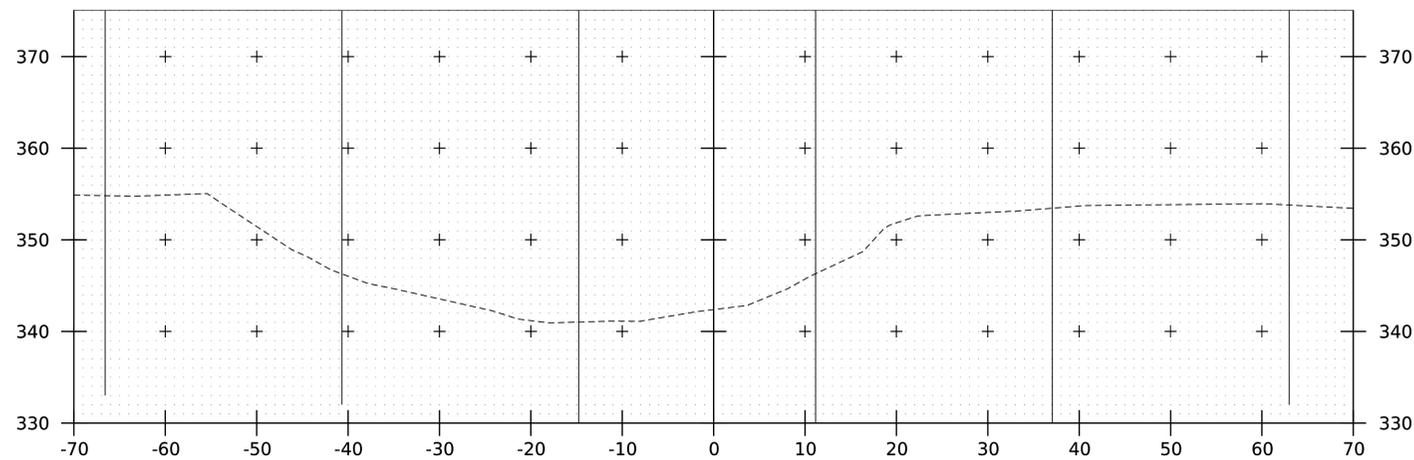


50+75

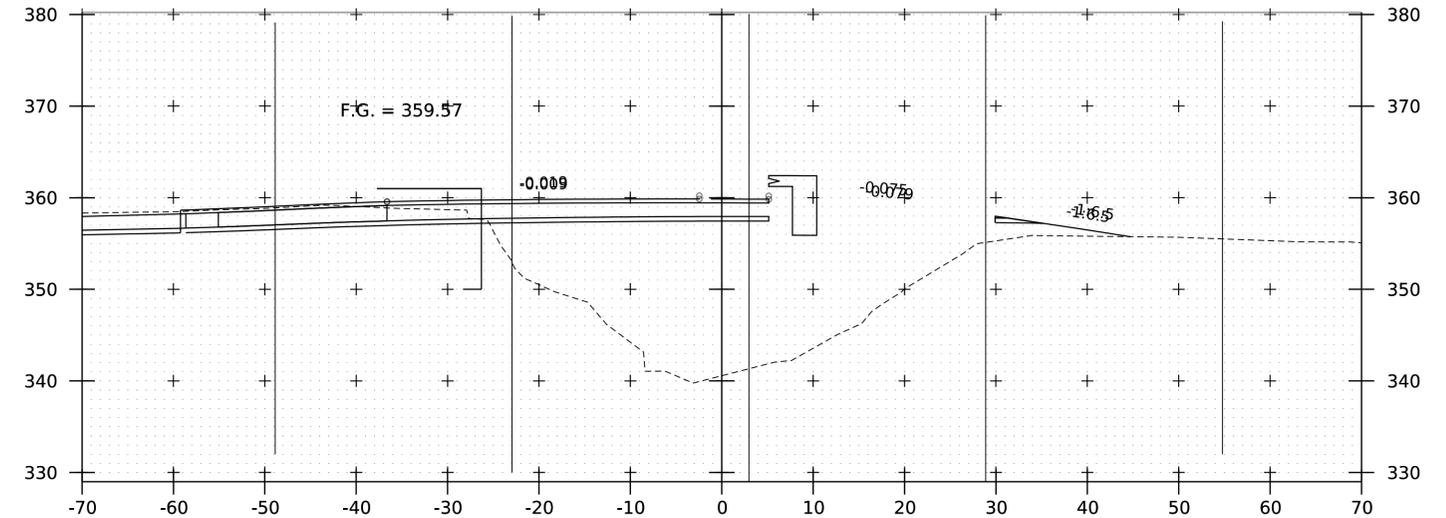
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
CHANNEL CROSS SECTIONS 1	SHEET 9 OF 17



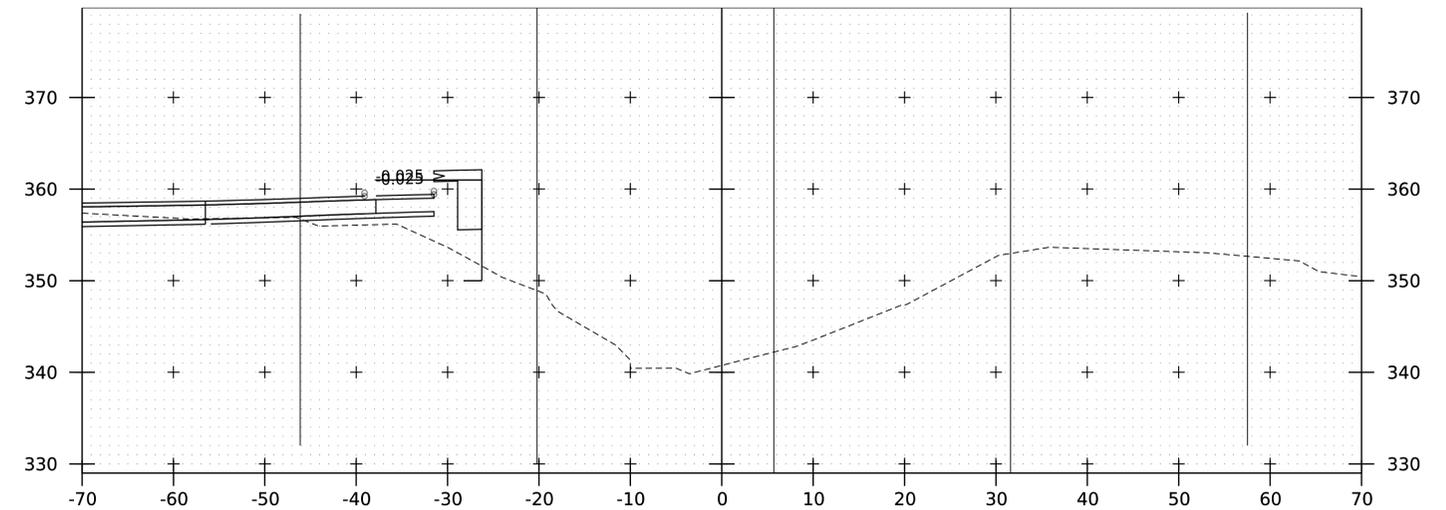
51+20



51+10

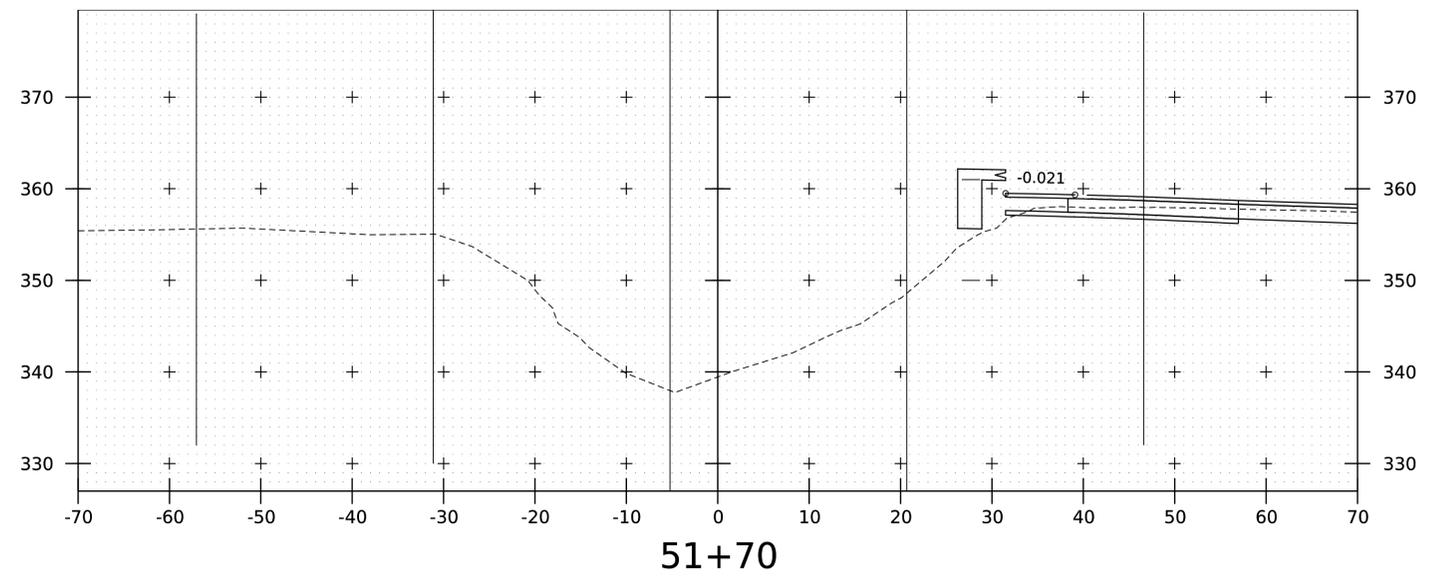
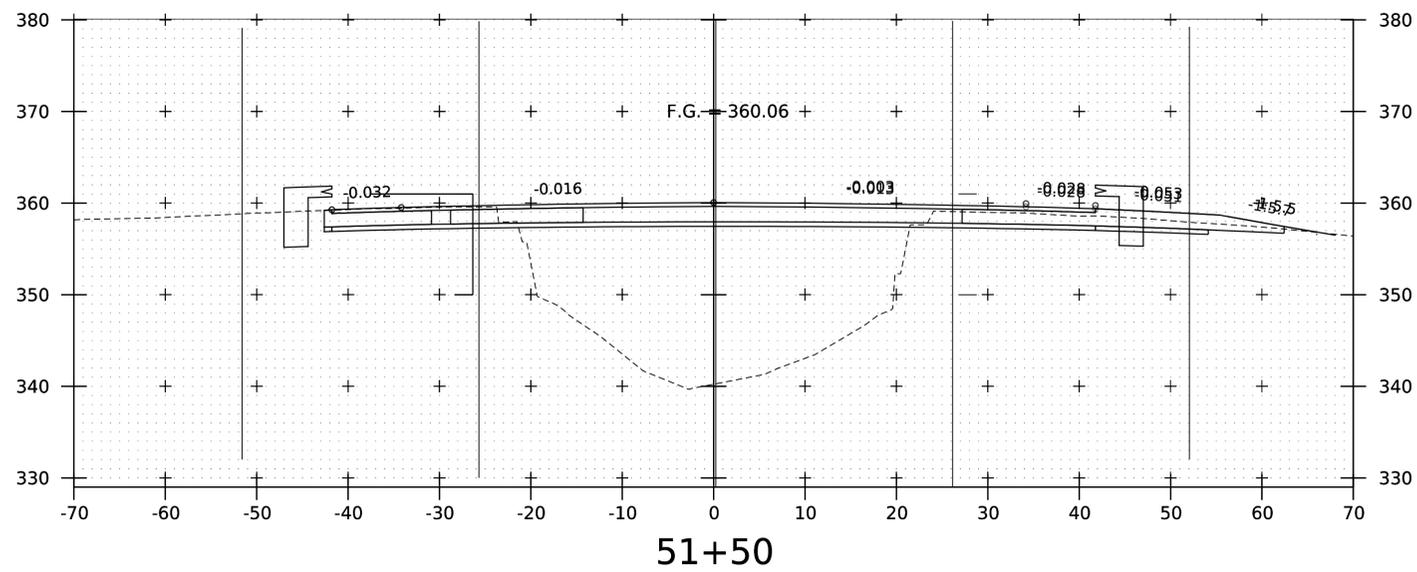
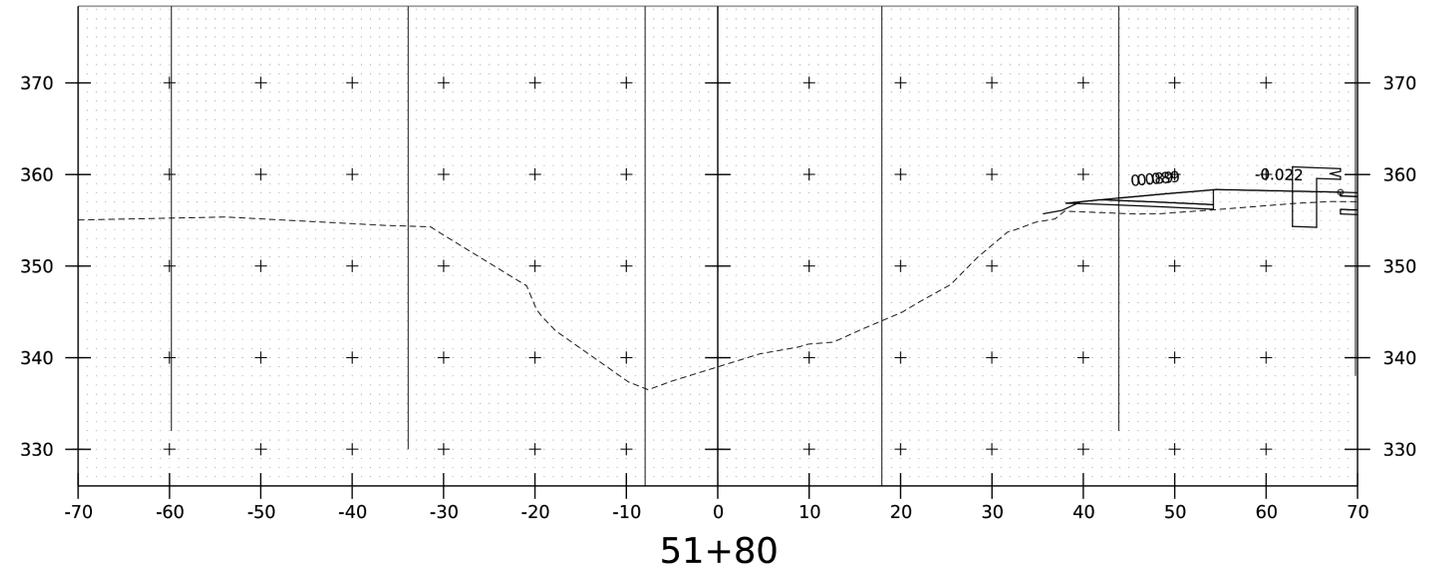
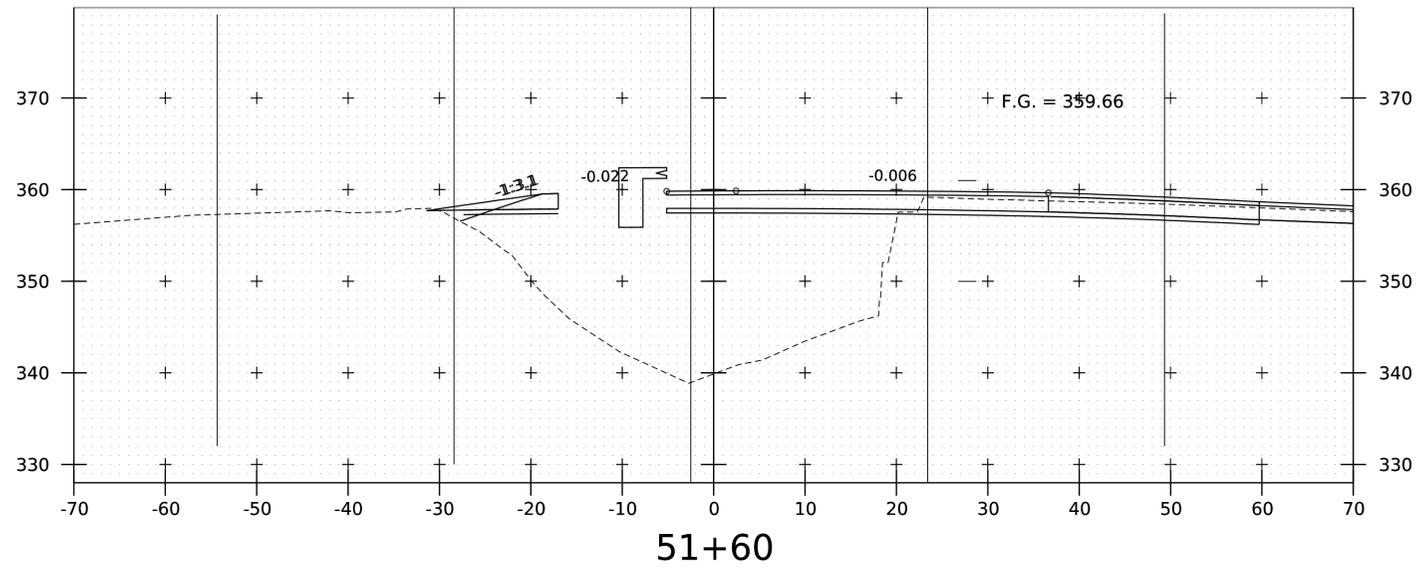


51+40

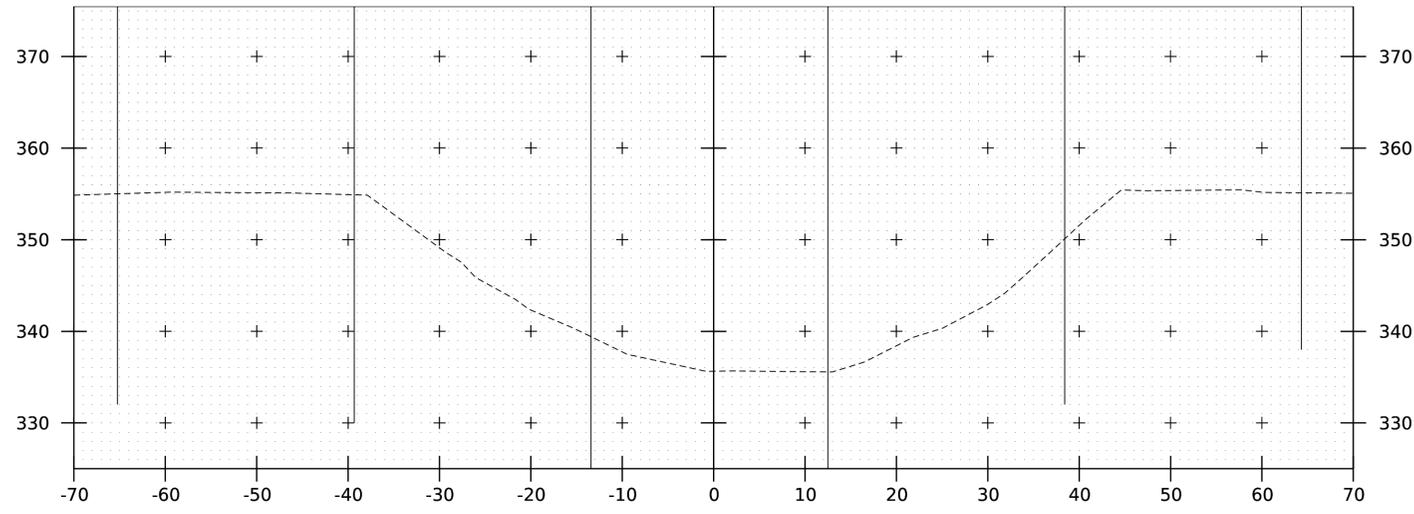


51+30

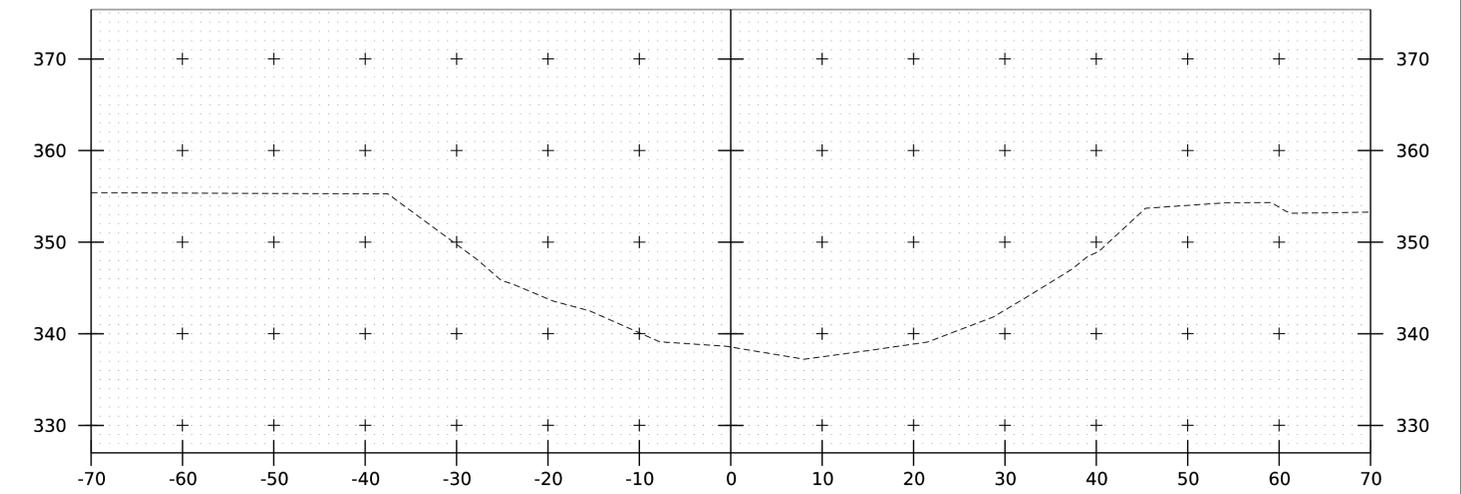
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
CHANNEL CROSS SECTIONS 2	SHEET 10 OF 17



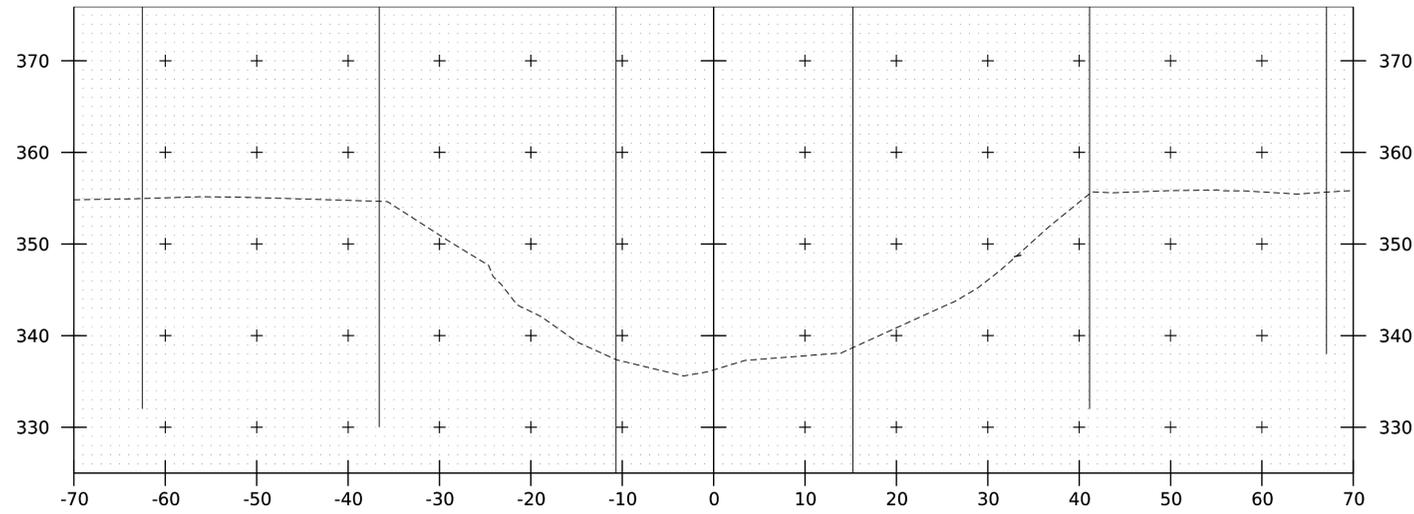
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
CHANNEL CROSS SECTIONS 3	SHEET 11 OF 17



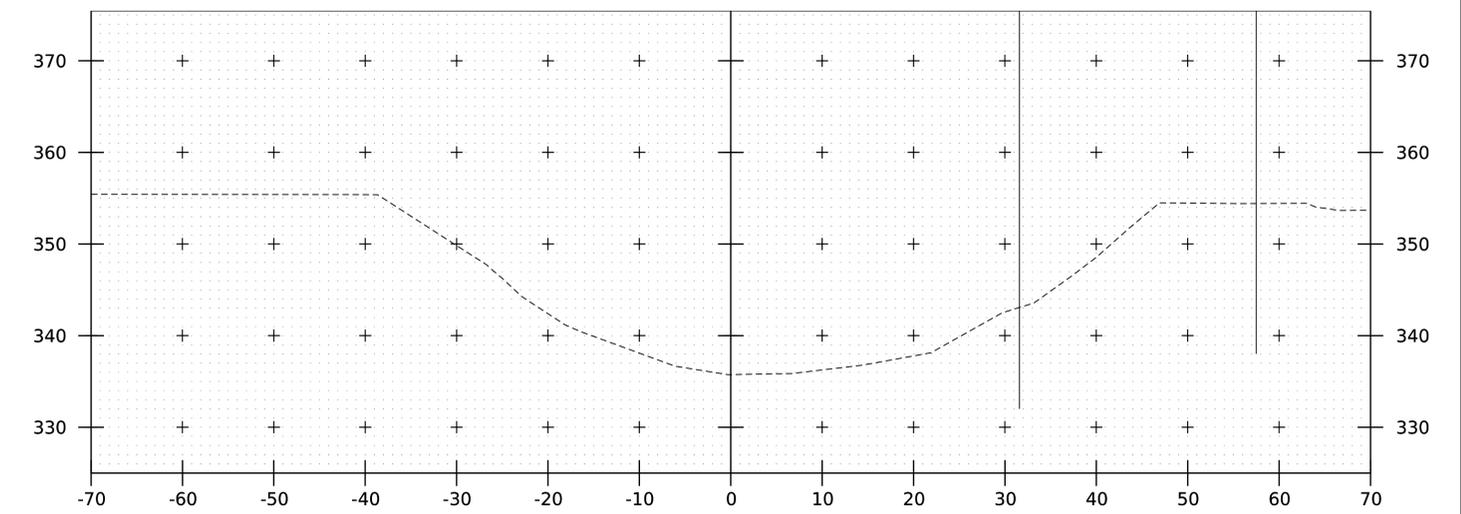
52+00



52+50

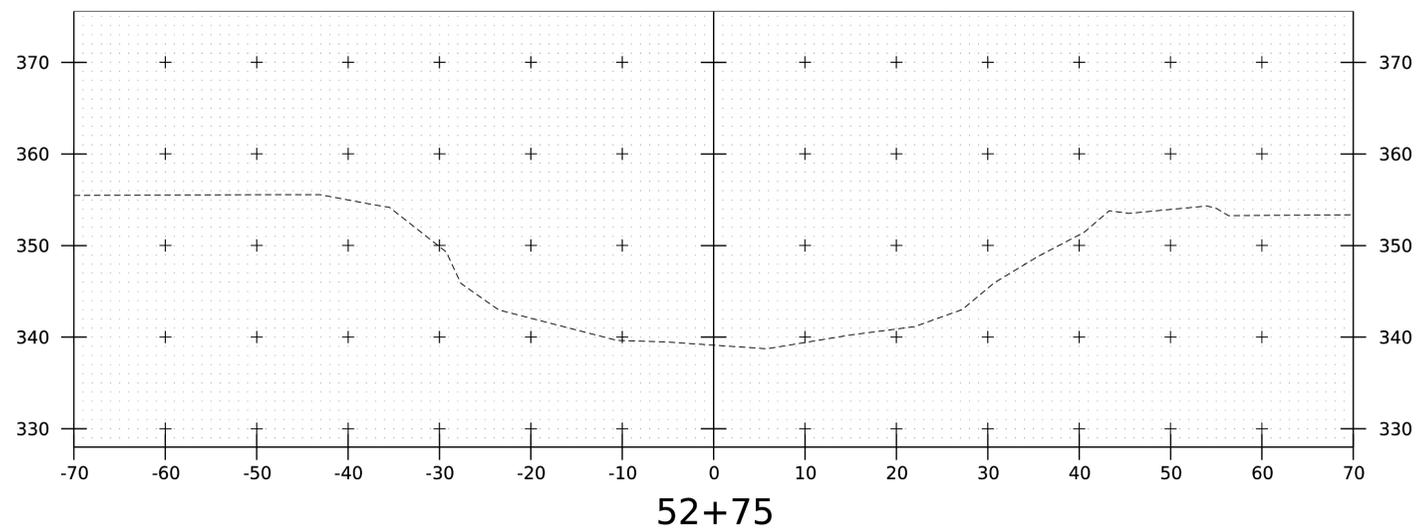
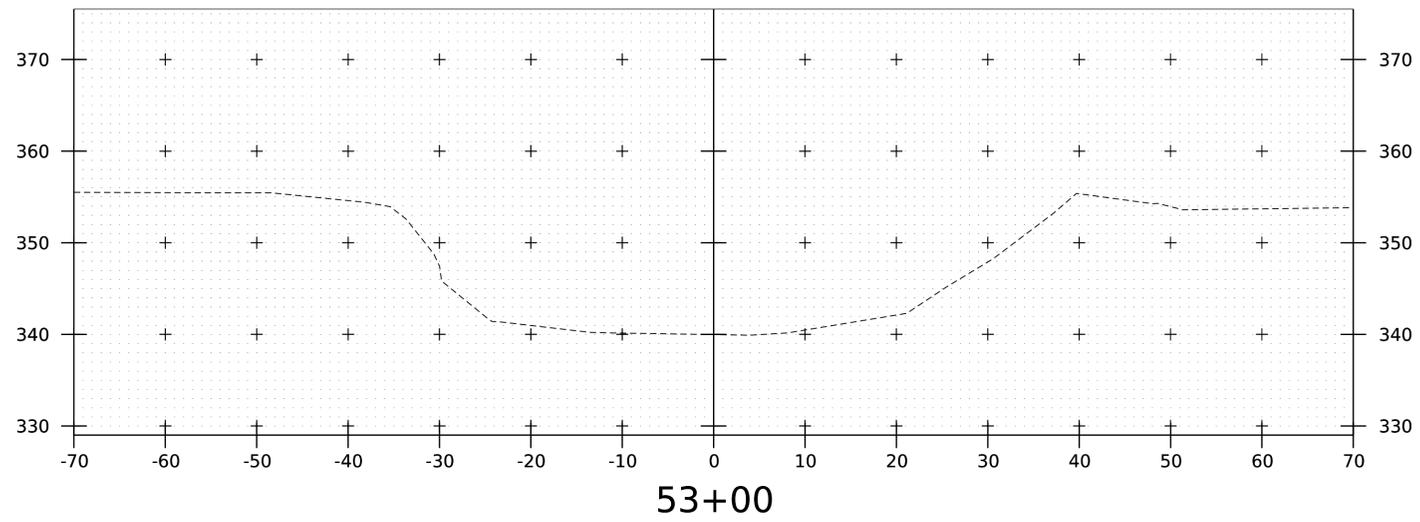


51+90



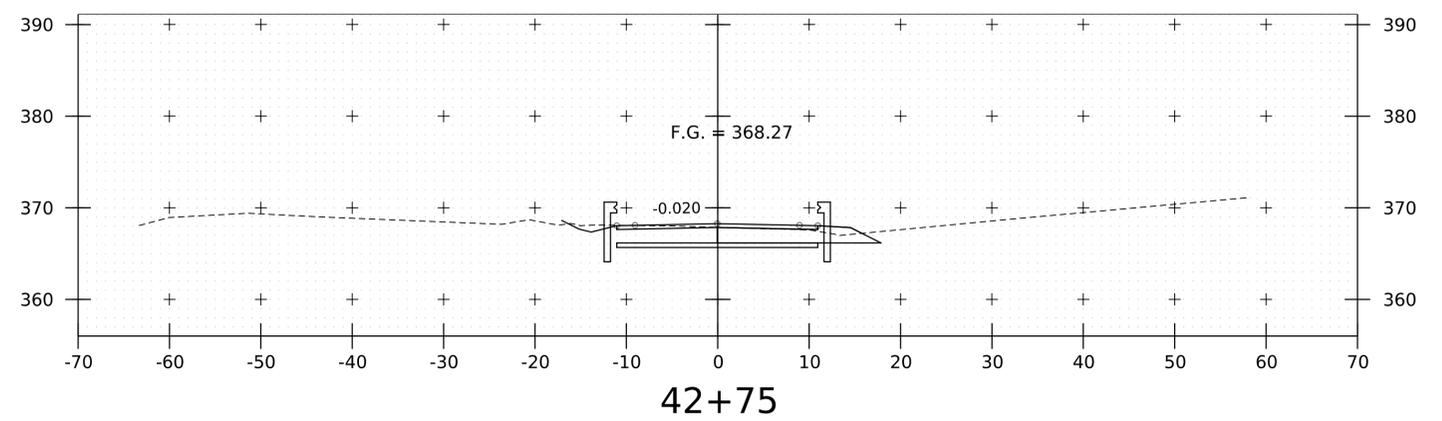
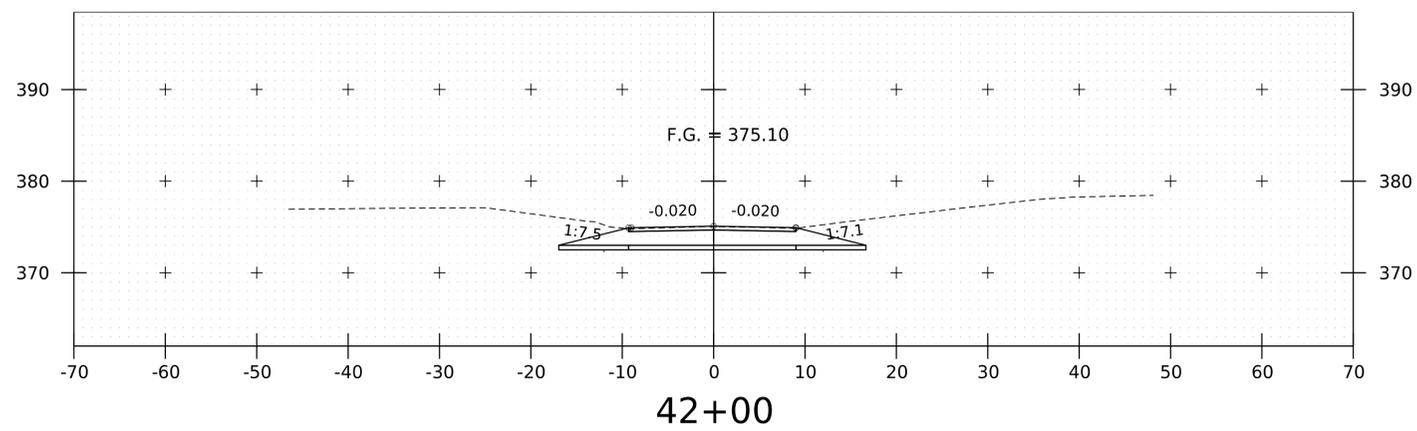
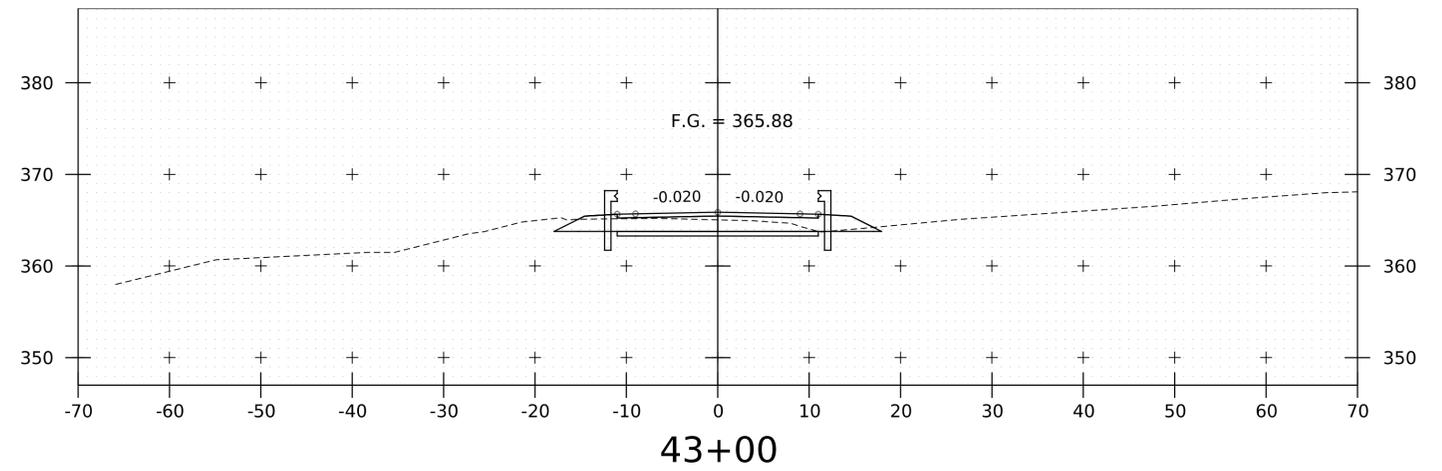
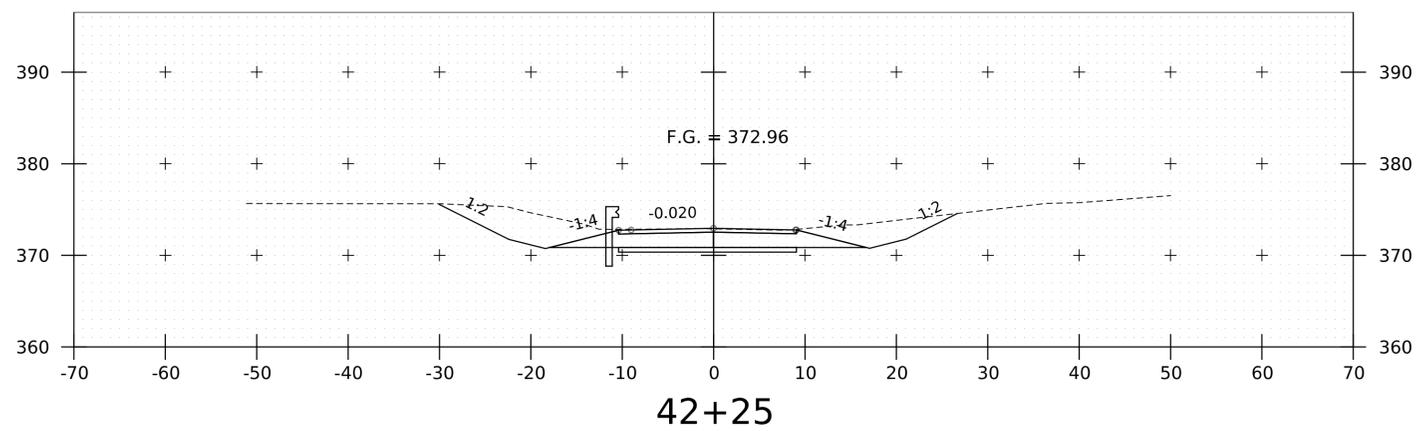
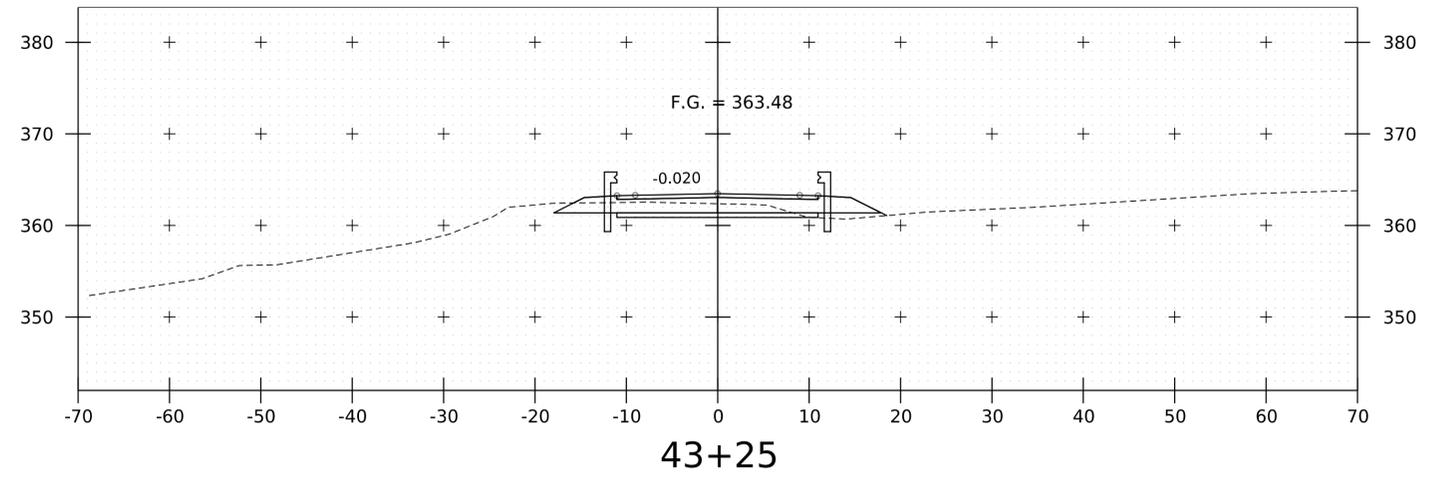
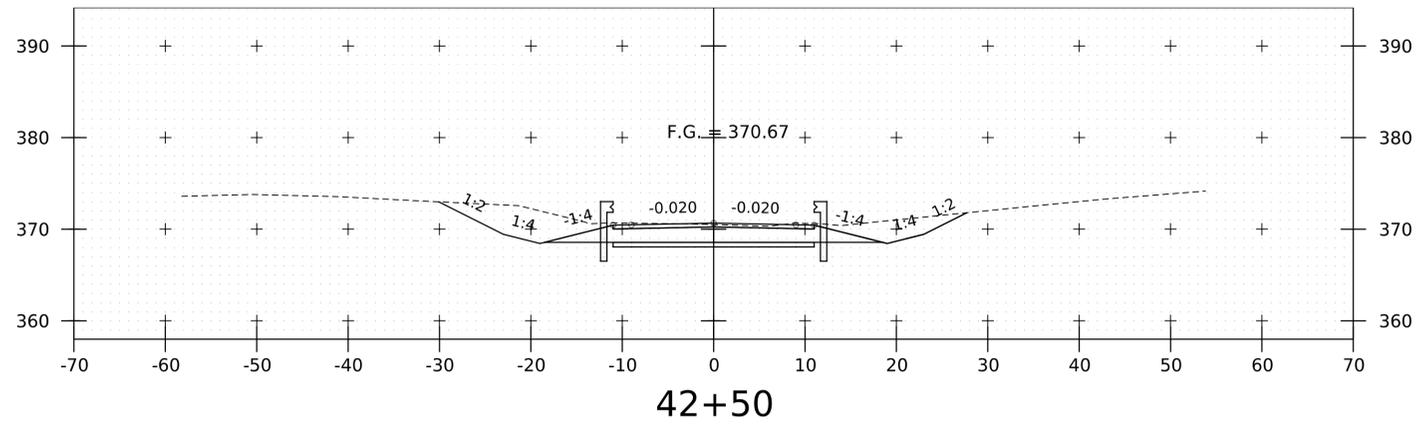
52+25

PROJECT NAME:	FAIRFIELD	PLOT DATE:	8-MAR-2023
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	sl2j624xs.dgn	DESIGNED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	CHECKED BY:	-----
CHANNEL CROSS SECTIONS	4	SHEET	12 OF 17

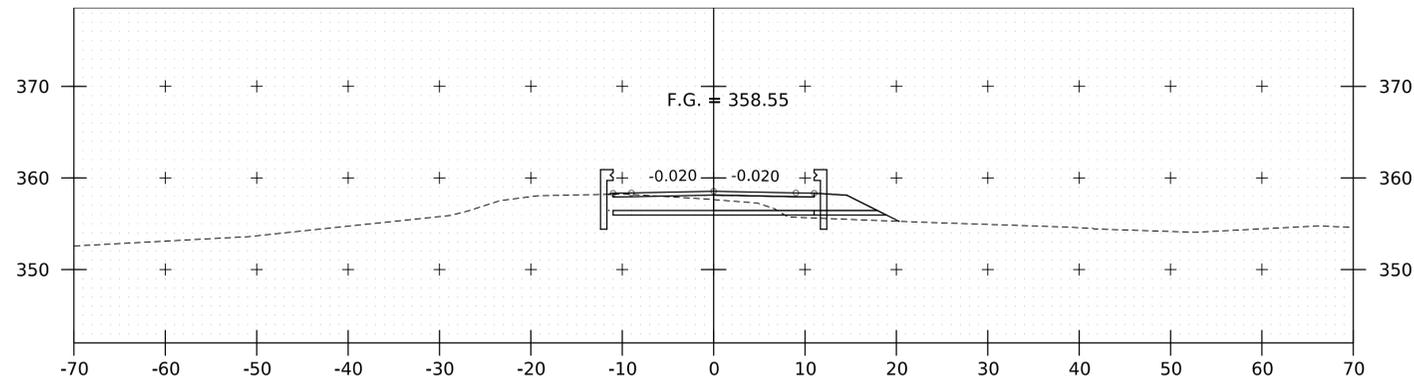


PROJECT NAME: FAIRFIELD  
 PROJECT NUMBER: BO 1448(46)

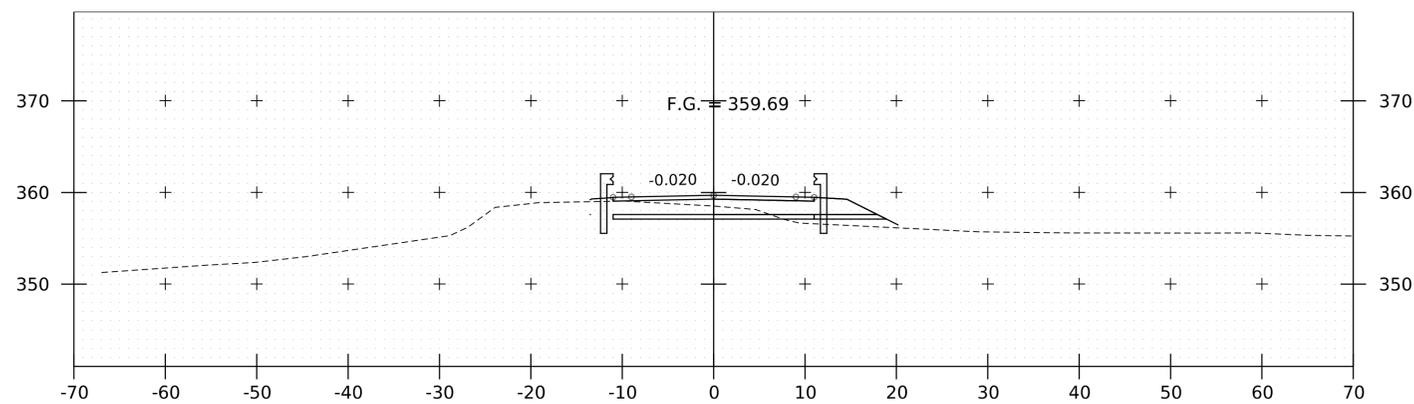
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
CHANNEL CROSS SECTIONS 5	SHEET 13 OF 17



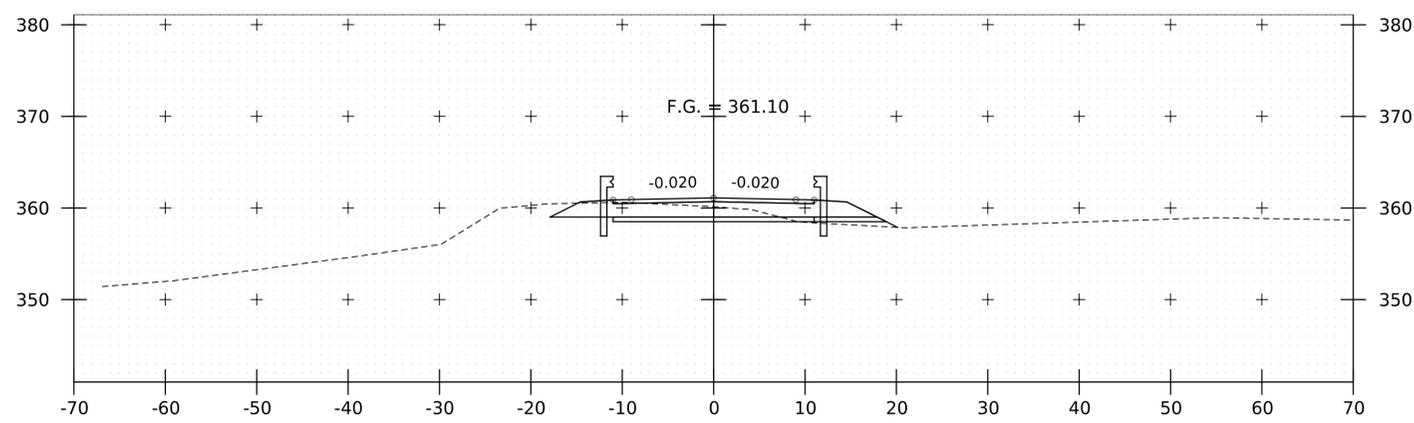
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
MAINLINE CROSS SECTIONS 1	SHEET 14 OF 17



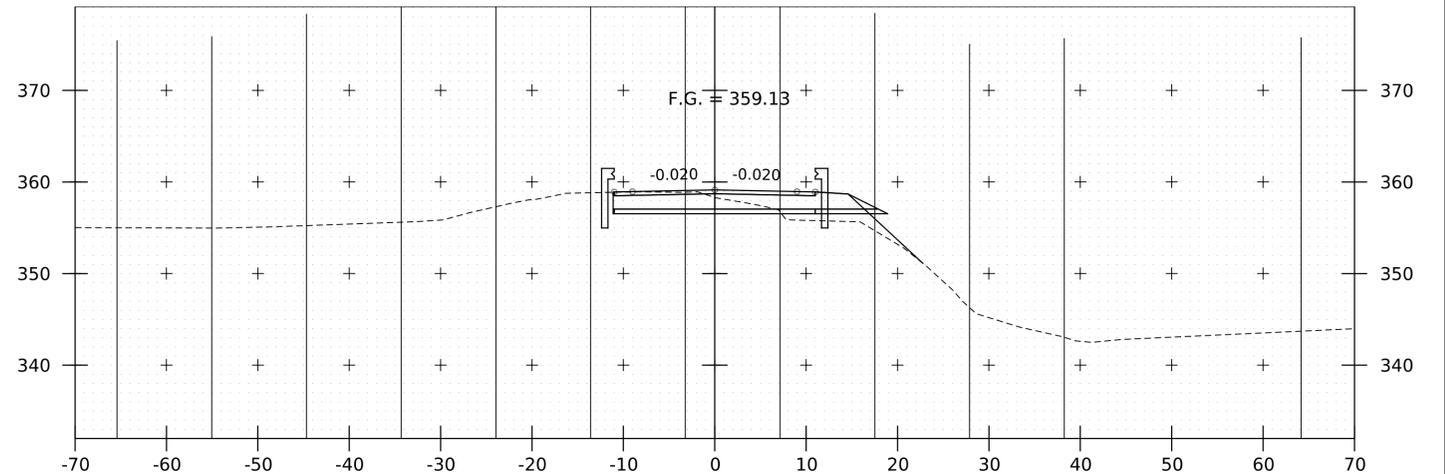
44+00



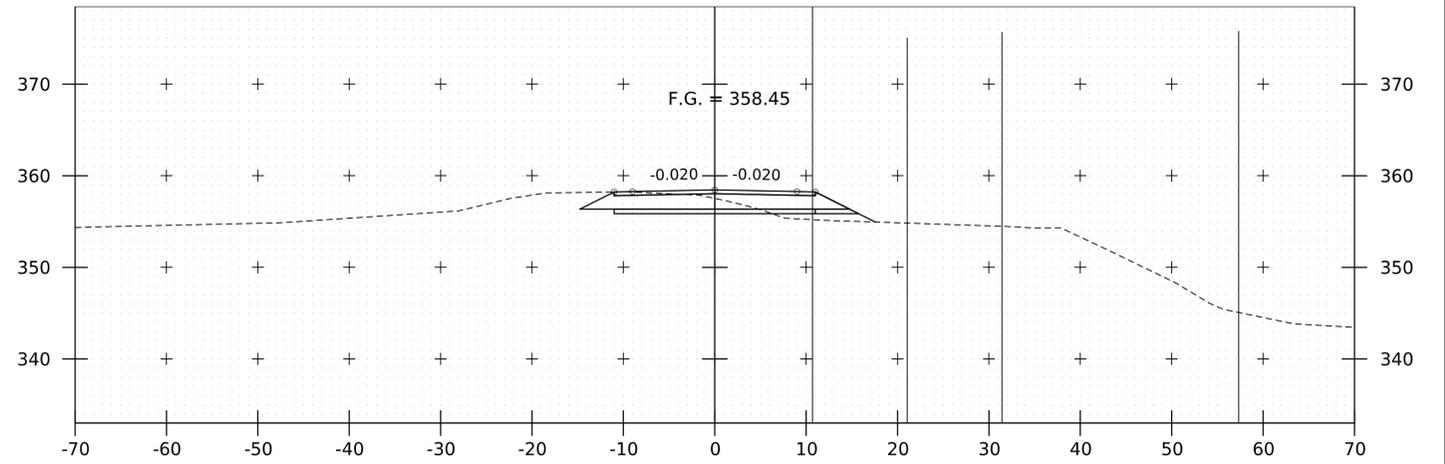
43+75



43+50

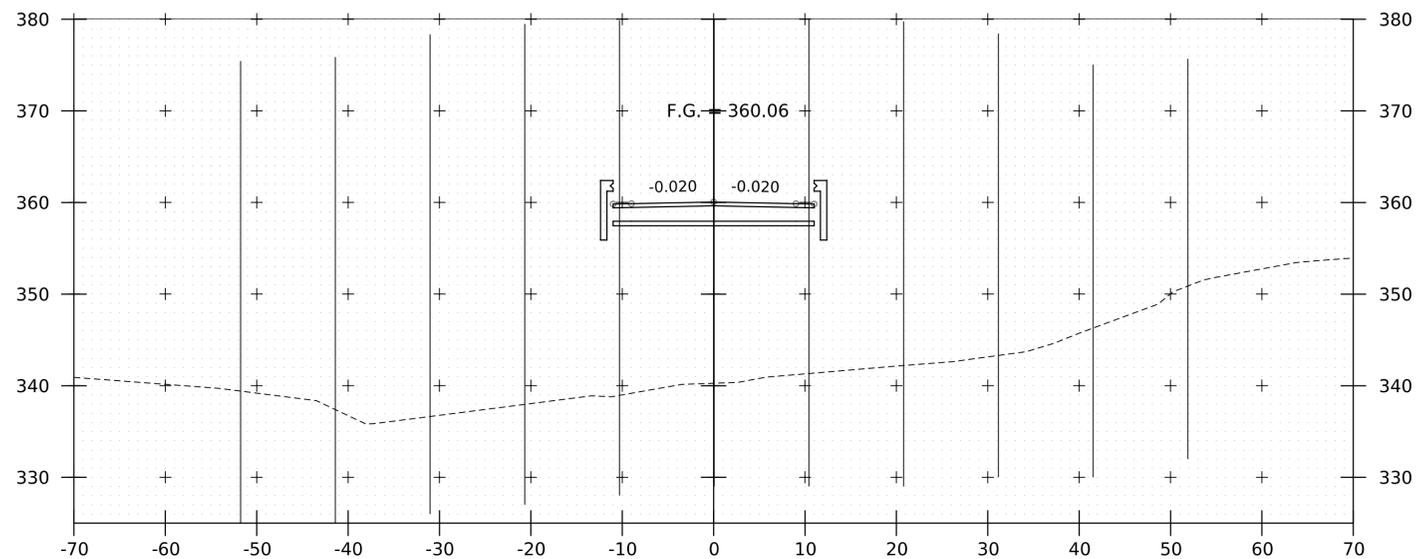


44+50

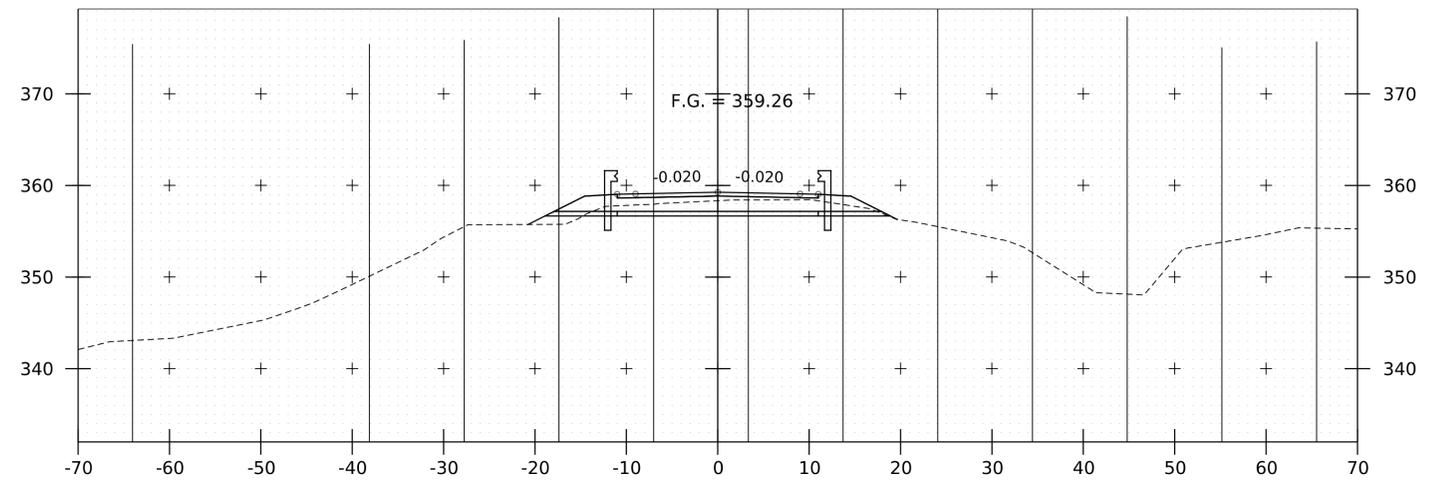


44+25

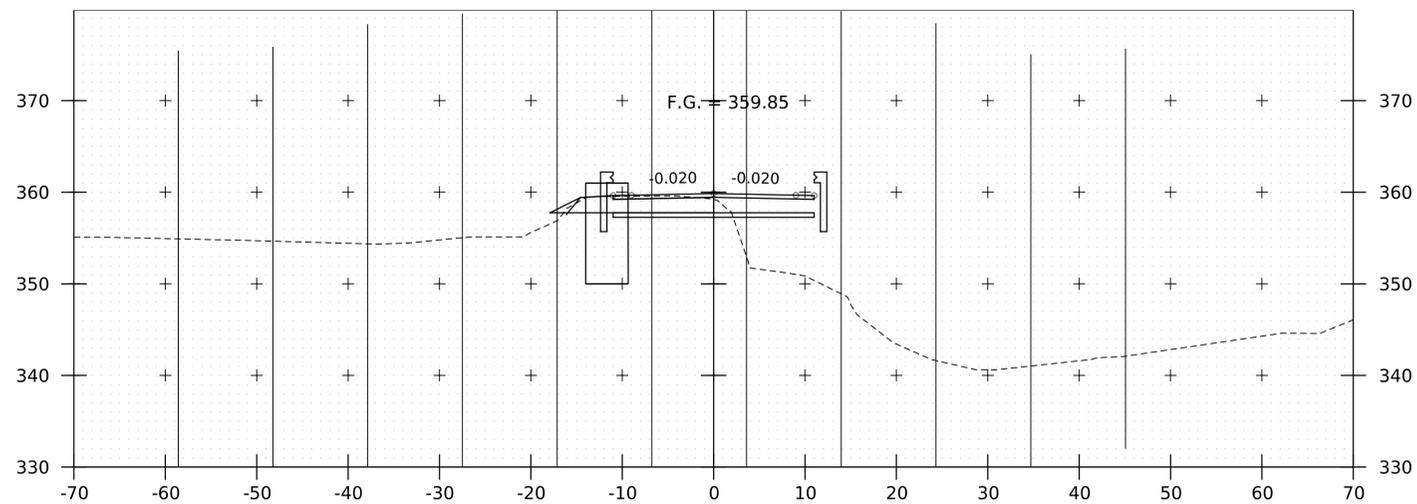
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
MAINLINE CROSS SECTIONS 2	SHEET 15 OF 17



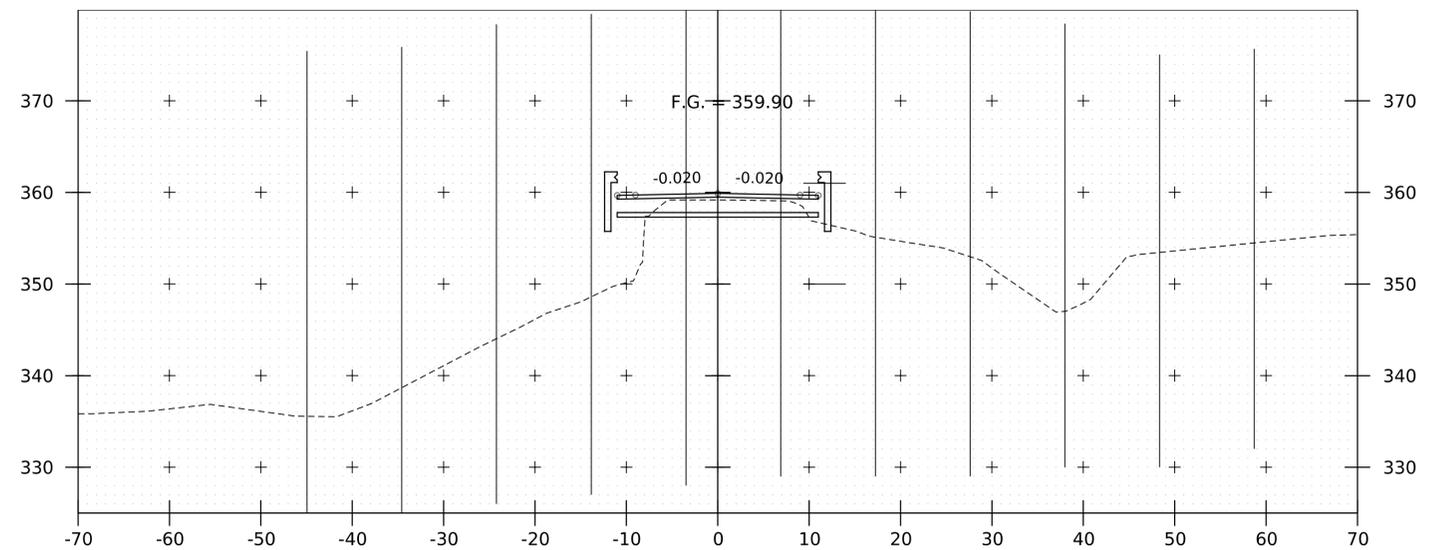
45+00



45+50

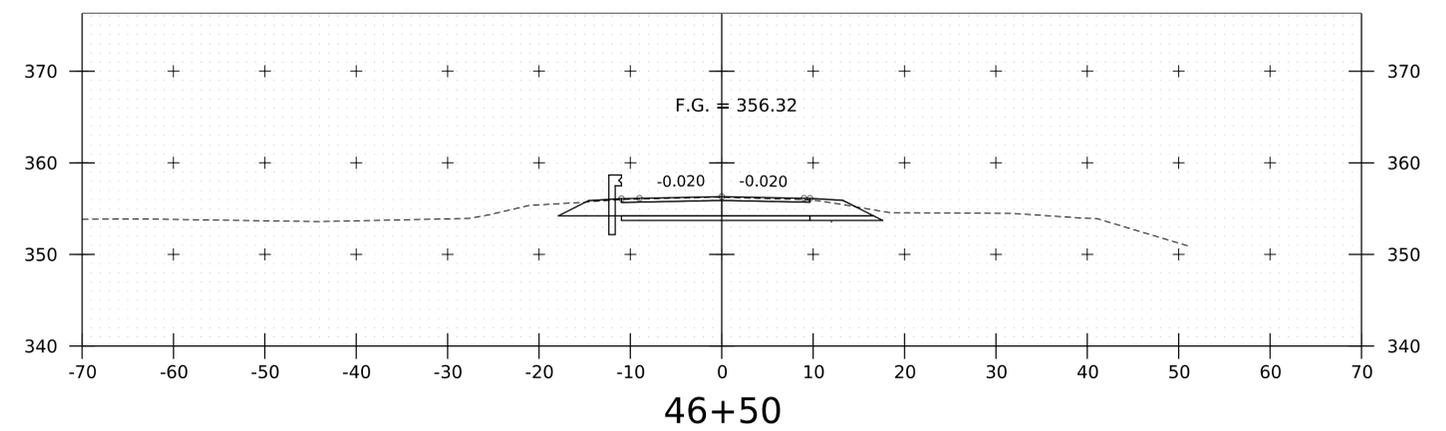
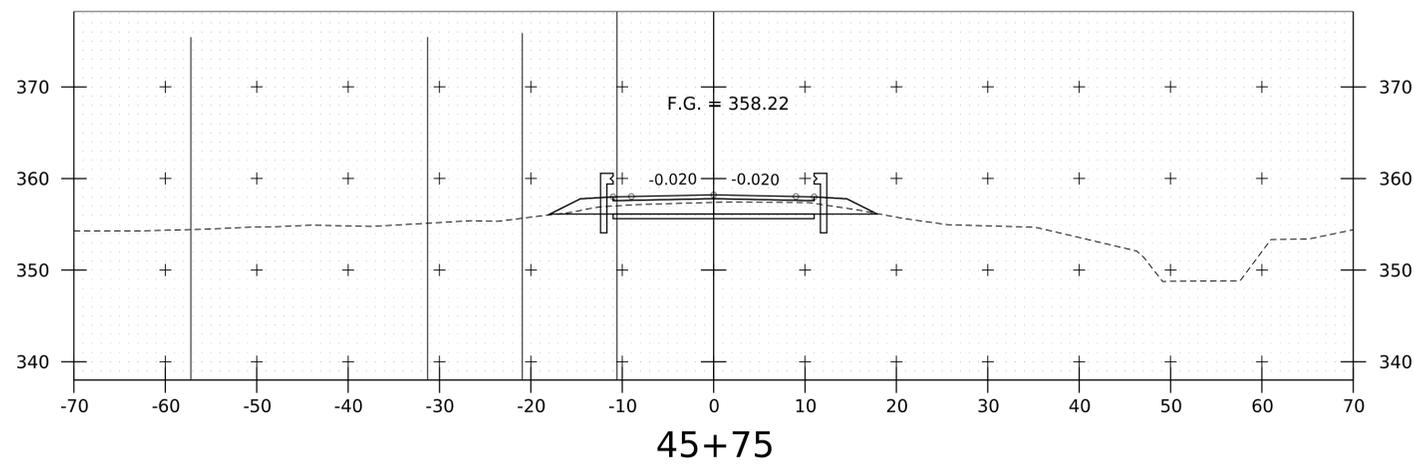
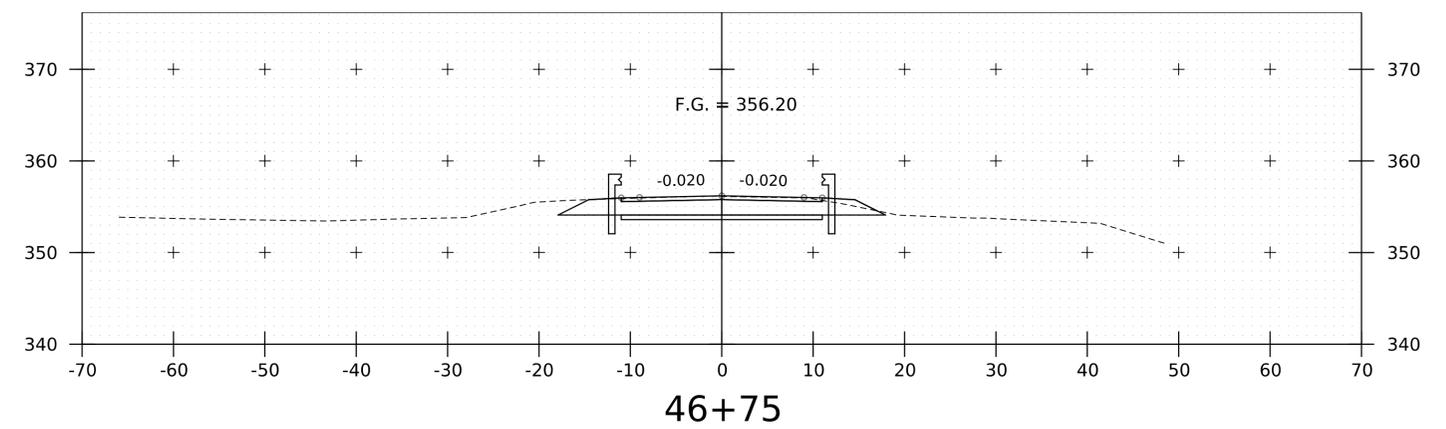
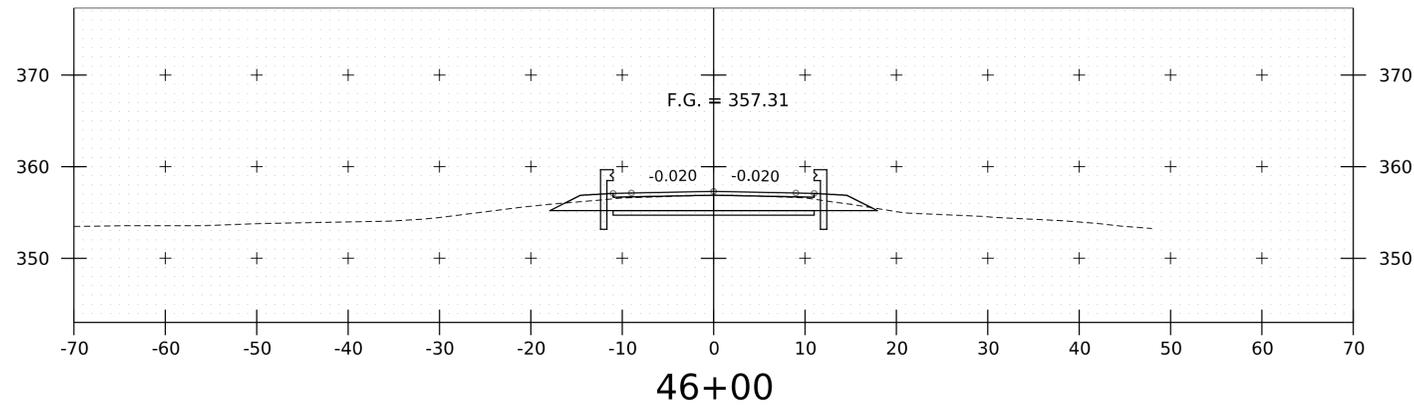
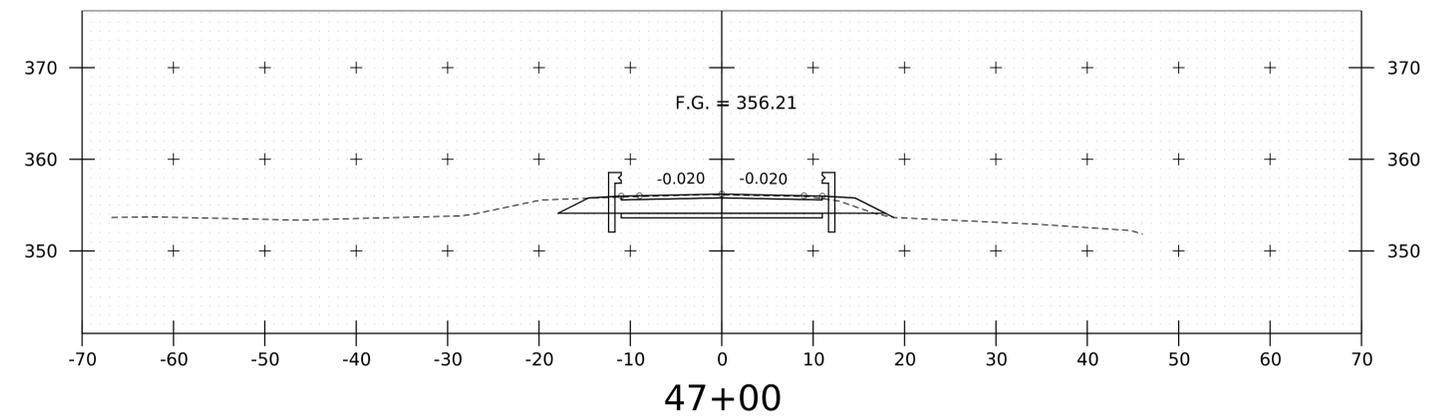
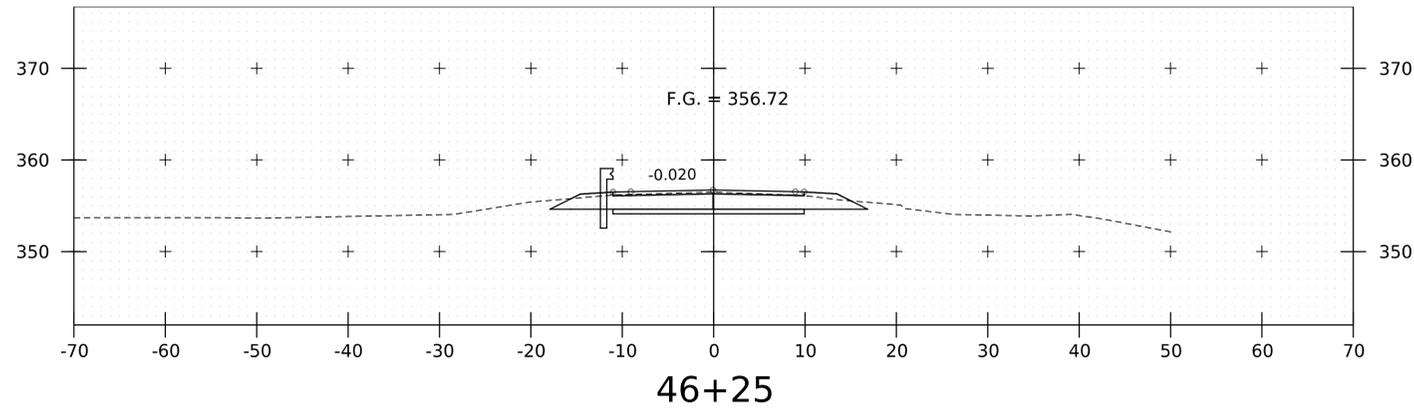


44+75



45+25

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BO 1448(46)	
FILE NAME: sl2j624xs.dgn	PLOT DATE: 8-MAR-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: C.FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: -----
MAINLINE CROSS SECTIONS 3	SHEET 16 OF 17



PROJECT NAME:	FAIRFIELD	PLOT DATE:	8-MAR-2023
PROJECT NUMBER:	BO 1448(46)	DRAWN BY:	C. FRENCH
FILE NAME:	sl2j624xs.dgn	DESIGNED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	CHECKED BY:	-----
MAINLINE CROSS SECTIONS 4		SHEET	17 OF 17