

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

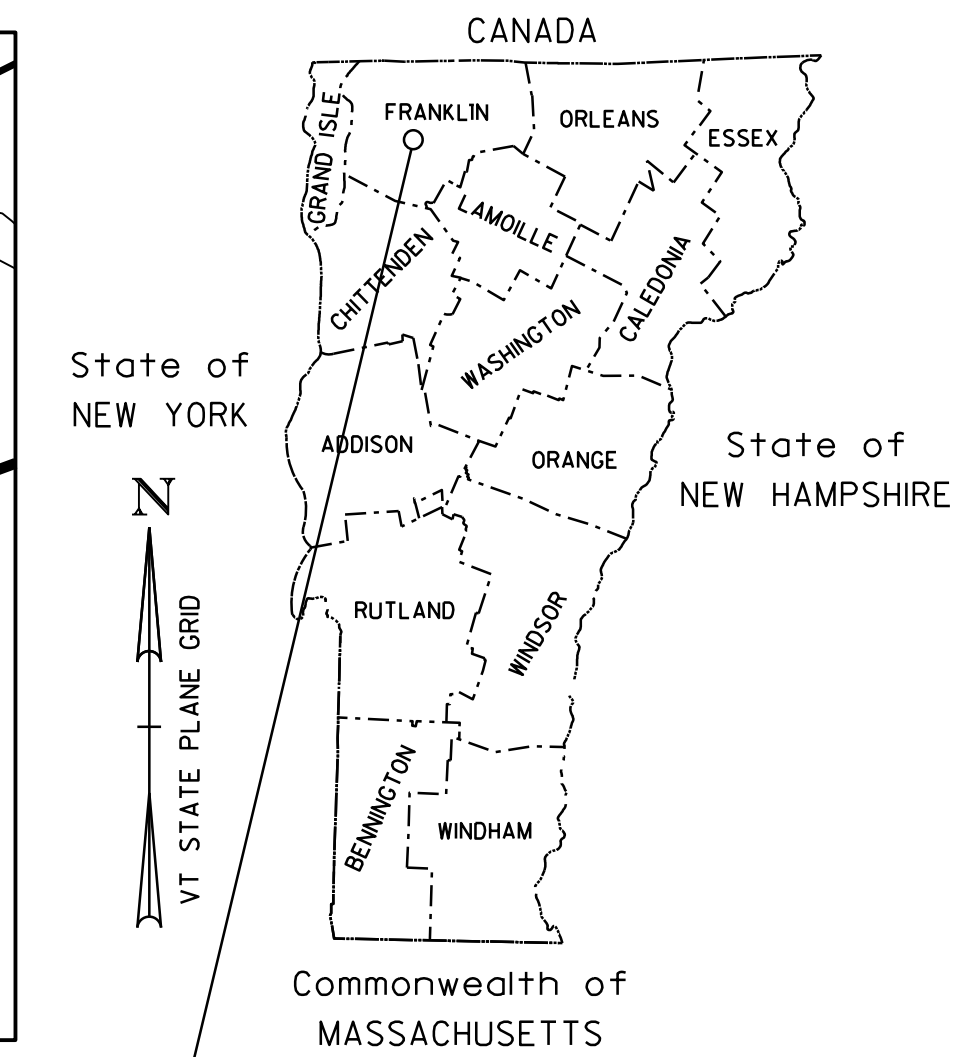
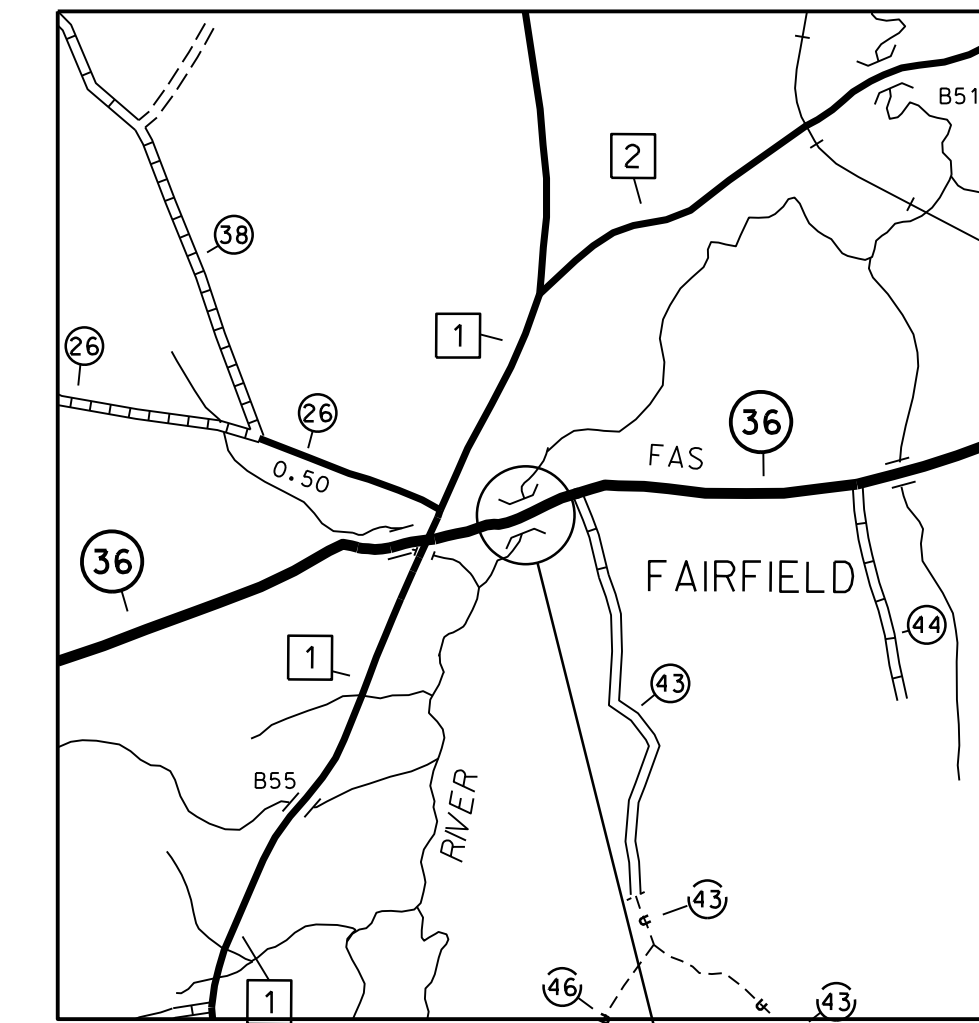
TOWN OF FAIRFIELD
COUNTY OF FRANKLIN

ROUTE NO : VERMONT ROUTE 36, MAJOR COLLECTOR BRIDGE NO : 6

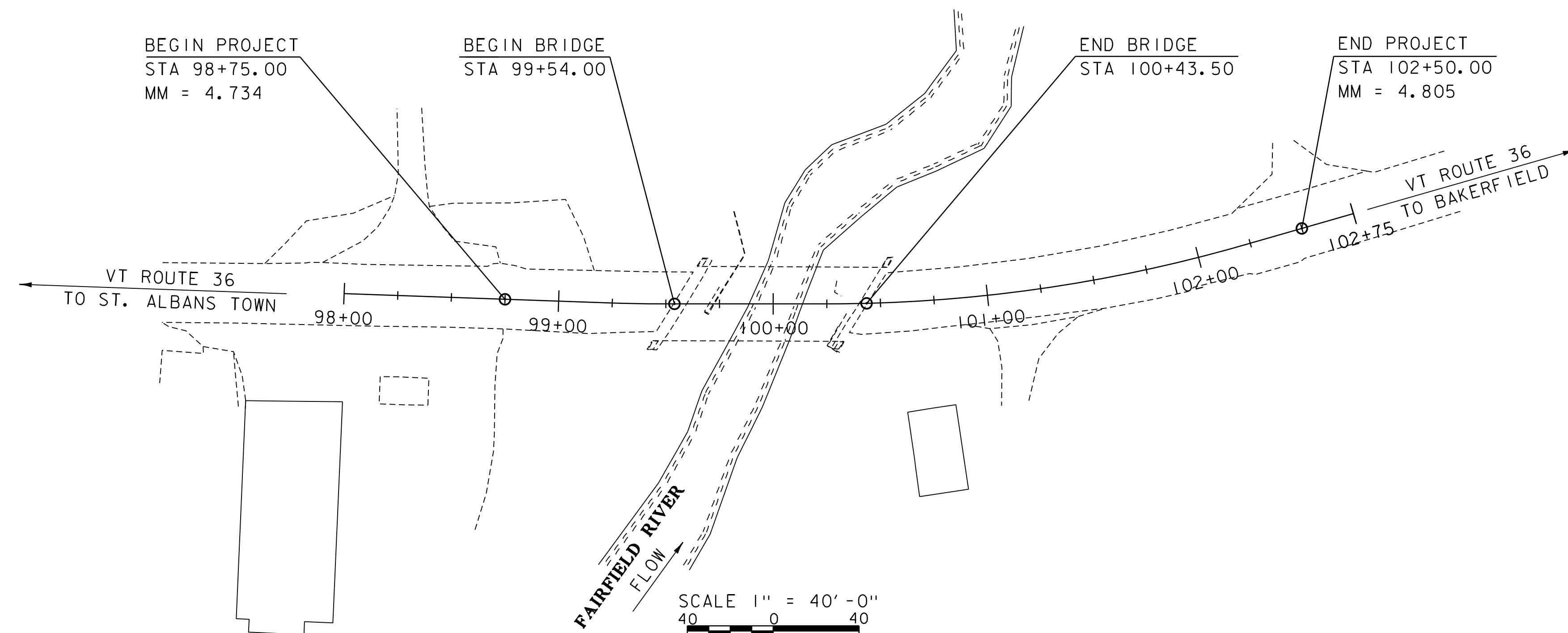
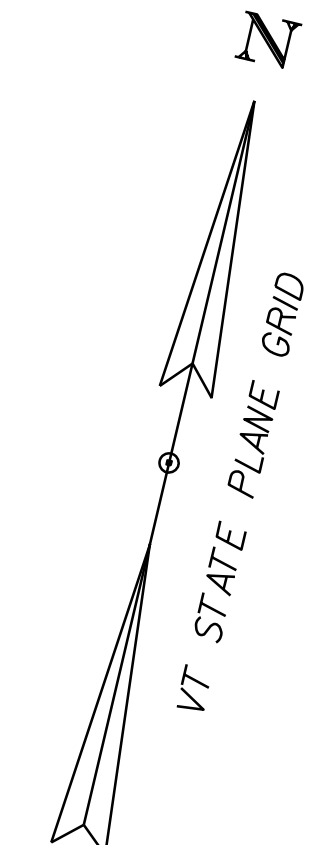
PROJECT LOCATION : LOCATED ON VT ROUTE 36 OVER FAIRFIELD RIVER APPROXIMATELY
7.7 MILES WEST OF JUNCTION WITH VT ROUTE 108

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING CONCRETE BRIDGE DECK
WITH RELATE ROADWAY WORK

LENGTH OF STRUCTURE : 89.50 FEET.
LENGTH OF ROADWAY : 285.50 FEET.
LENGTH OF PROJECT : 375.00 FEET.



FAIRFIELD
STP DECK (51)



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 :	03-20-2012
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)

CONCEPTUAL PLANS 07-DEC-2021

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : ROB YOUNG, P.E.	
PROJECT NAME :	FAIRFIELD
PROJECT NUMBER :	STP DECK (51)
SHEET 1 OF 15 SHEETS	

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FINAL HYDRAULIC REPORT

PLAN SHEETS

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- 2 PRELIMINARY INFORMATION SHEET
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- 4 CONVENTIONAL SYMBOLGY LEGEND
- 5 EPSC EXISTING SITE PLAN
- 6 DECK REPLACEMENT LAYOUT
- 7 VT 36 PROFILE
- 8 - 12 ROADWAY COSSS SECTIONS 1-5

STANDARDS LIST

DETAIL SHEETS

FINAL HYDRAULIC REPORT

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TWO-WAY TRAFFIC ON THE EXISTING STRUCTURE.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY.

DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	dp: 2.5 INCH
3. DESIGN SPAN	L: 86.68 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAND	fy: ---
6. PRESTRESSED CONCRETE STRENGTH	f'c: ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'cr: ---
8. HIGH PERFORMANCE CONCRETE, CLASS PC4	f'c: 4.0 KSI
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f'c: 3.5 KSI
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'c: ---
11. CONCRETE, CLASS C	f'c: ---
12. REINFORCING STEEL	fy: 60 KSI
13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	fy: 50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	qn: ---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
16. NOMINAL BEARING RESISTANCE OF ROCK	qn: ---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
18. PILE RESISTANCE FACTOR	φ: ---
19. LATERAL PILE DEFLECTION	Δ: ---
20. BASIC WIND SPEED	V3s: ---
21. MINIMUM GROUND SNOW LOAD	ps: ---
22. SEISMIC DATA	PGA: --- S: --- S1: ---
23.	---
24.	---
25.	---
26.	---

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEM
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	2.76	1.29					
POSTING							
OPERATING	3.58	1.68	2.65	1.7	2.5	2.22	2.32
COMMENTS:							

TRAFFIC DATA

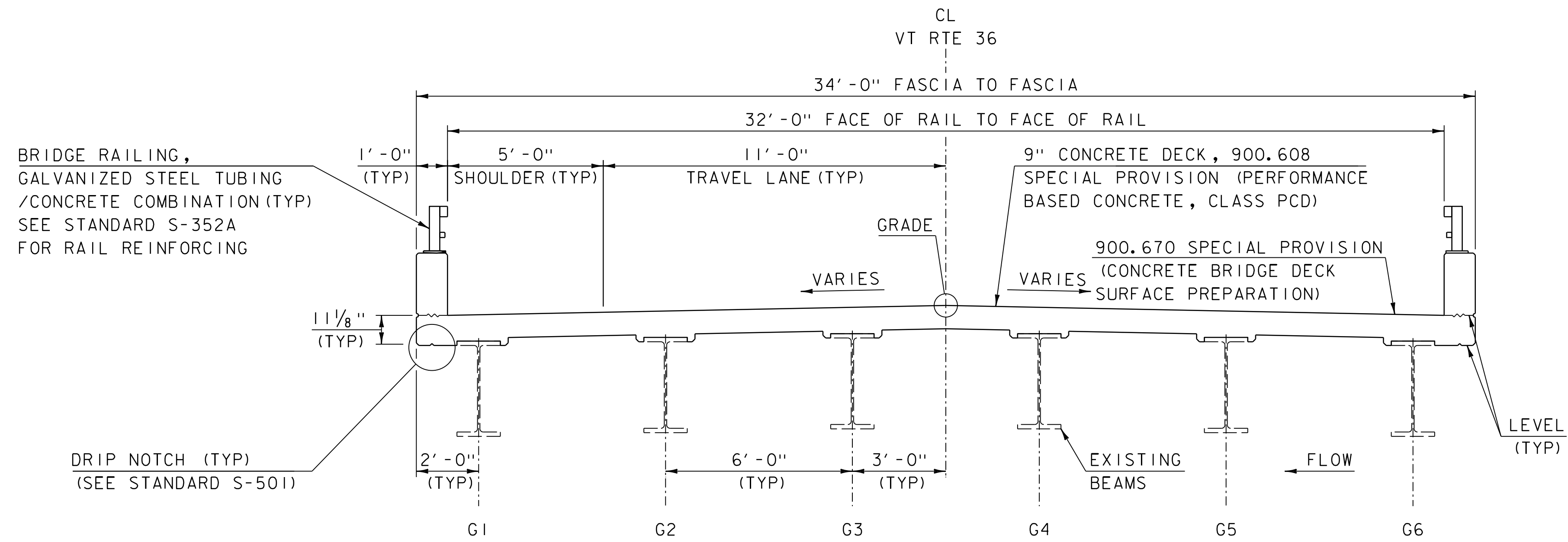
YEAR	ADT	DHV	% D	% T	ADTT
2023	1800	240	75	8.3	140
2043	2000	260	75	11.4	220

20 year ESAL for flexible pavement from 2023 to 2043 : 845000
 40 year ESAL for flexible pavement from 2023 to 2063 : 1915000
 Design Speed : 35 mph

AS BUILT "REBAR" DETAIL

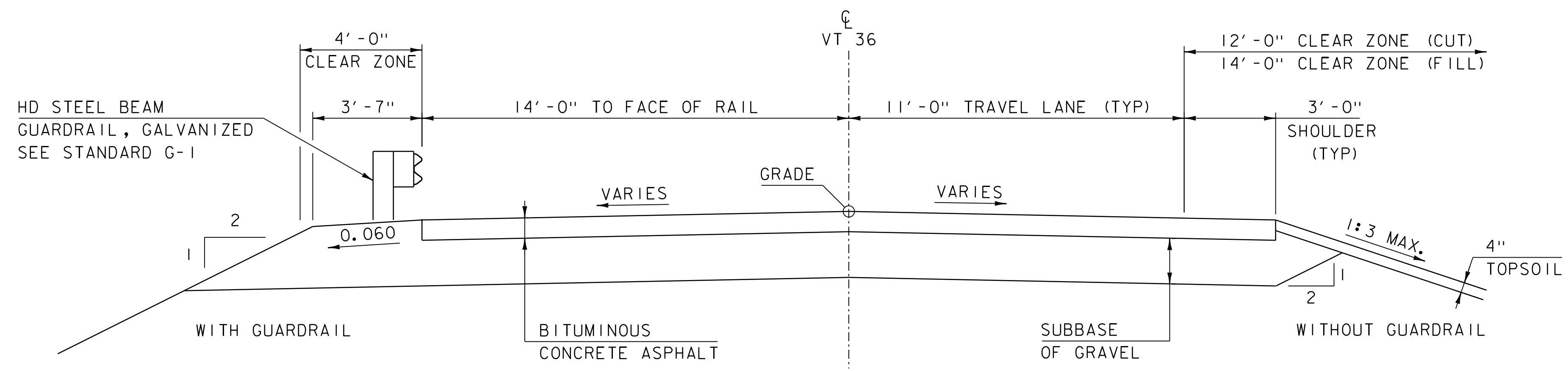
AS BUILT "REBAR" DETAIL		
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

PROJECT NAME: FAIRFIELD	PLOT DATE: 07-DEC-2021
PROJECT NUMBER: STP DECK(5I)	DRAWN BY: R. PELLETT
FILE NAME: sl9b2l8pi.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: R. YOUNG	SHEET 2 OF 15
DESIGNED BY: C. FRENCH	
PRELIMINARY INFORMATION SHEET	



DECK REPLACEMENT TYPICAL SECTION

SCALE 3/8" = 1'-0"



PROPOSED VT ROUTE 36 TYPICAL SECTION

SCALE 3/8" = 1'-0"

- *BITUMINOUS CONCRETE PAVEMENT
 1 1/2" BCP TYPE IVS
 1 1/2" BCP TYPE IVS
 3 1/2" BCP TYPE IIS

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: STP DECK(51)

FILE NAME: sl9b218typ.dgn
 PROJECT LEADER: R. YOUNG
 DESIGNED BY: C. FRENCH
 TYPICAL SECTIONS

PLOT DATE: 07-DEC-2021
 DRAWN BY: R. PELLETT
 CHECKED BY: D. PETERSON
 SHEET 3 OF 15

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	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
////	STRIPING LINE REMOVAL
~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**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	PROPERTY LINE (P/L)
L	SLOPE RIGHTS
SR	6F PROPERTY BOUNDARY
6f	4F PROPERTY BOUNDARY
4f	HAZARDOUS WASTE
HAZ	

**EPSC LAYOUT PLAN SYMBOLGY**

**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 SYMBOLGY

**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**

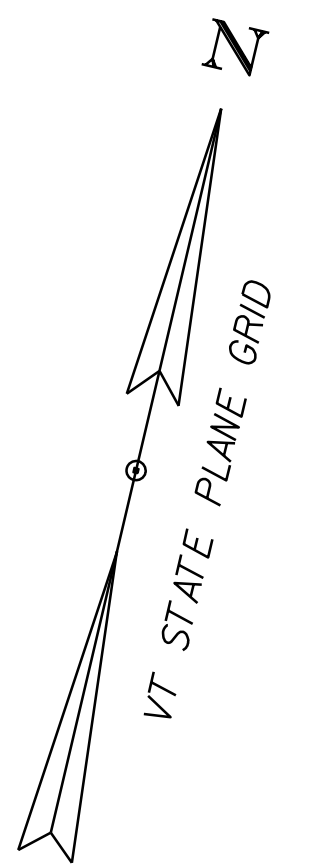
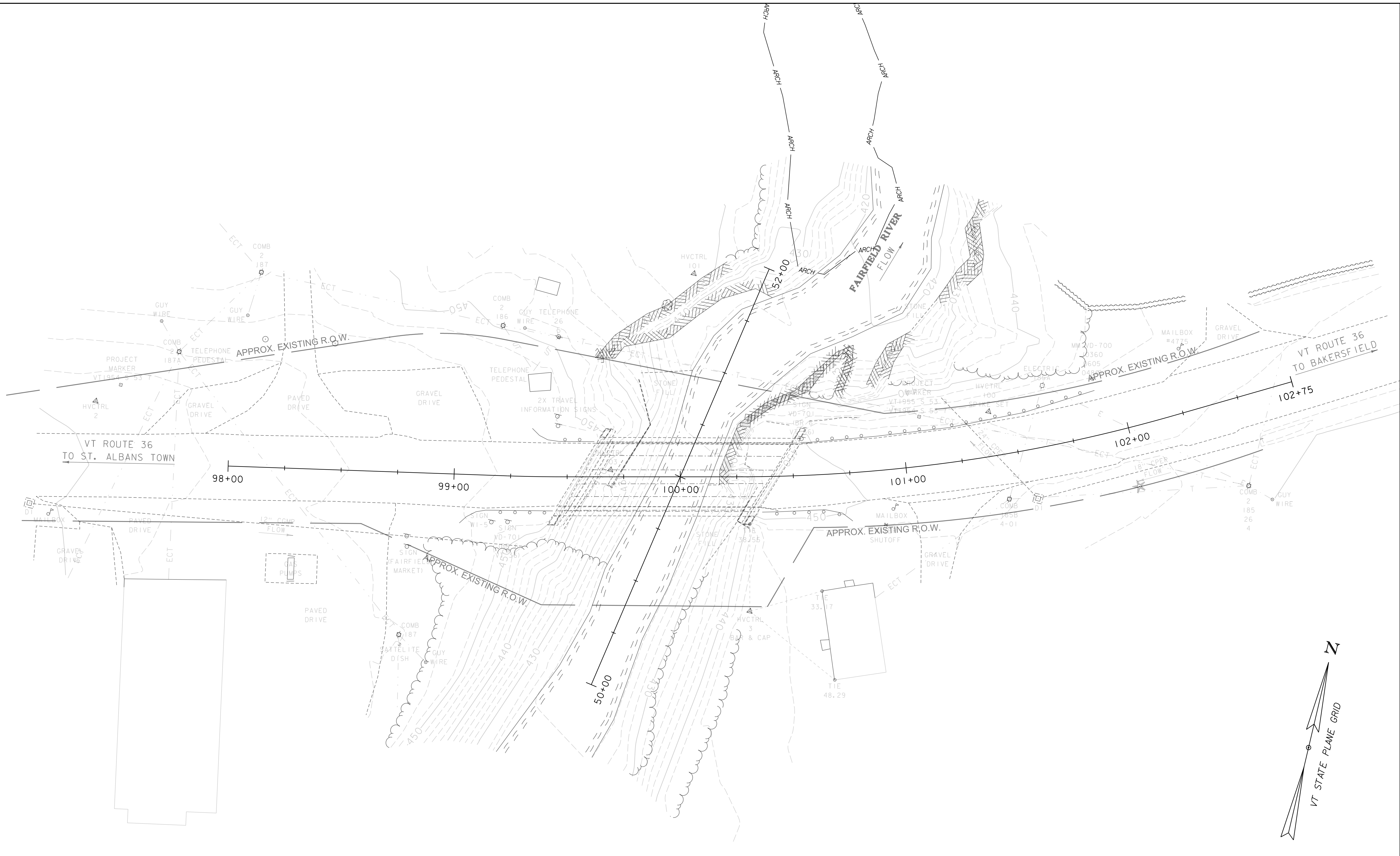
— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

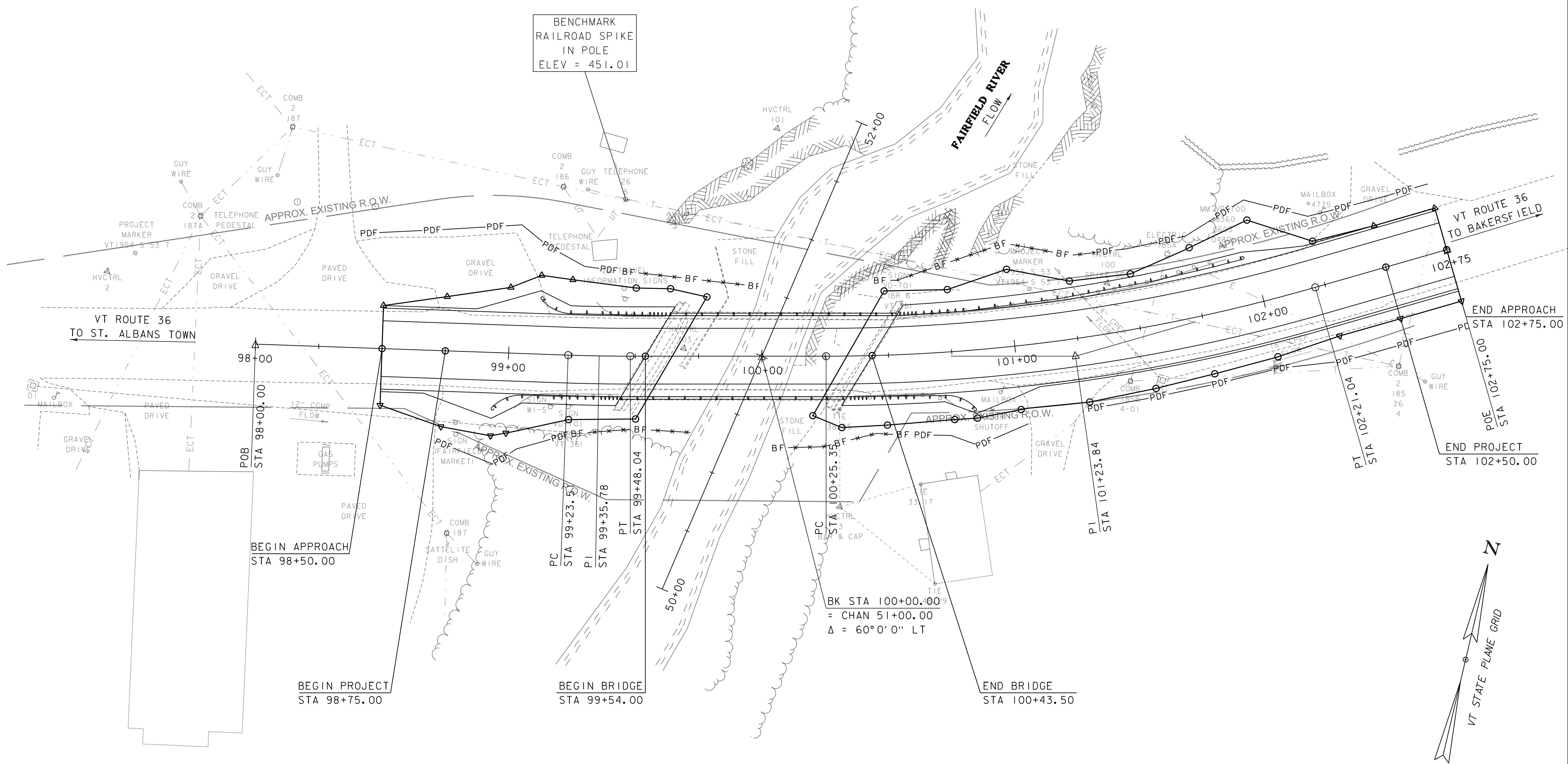
—	ROAD EDGE PAVEMENT
—	ROAD EDGE GRAVEL
—	DRIVEWAY EDGE
—	DITCH
—	FOUNDATION
—	FENCE (EXISTING)
—	FENCE WOOD POST
—	FENCE STEEL POST
—	GARDEN
—	ROAD GUARDRAIL
—	RAILROAD TRACKS
—	CULVERT (EXISTING)
—	STONE WALL
—	WALL
—	WOOD LINE
—	BRUSH LINE
—	HEDGE
—	BODY OF WATER EDGE
—	LEDGE EXPOSED

PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	STP DECK(5I)
FILE NAME:	sl9b218legend.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	R. PELLETT
CONVENTIONAL SYMBOLGY LEGEND	
PLOT DATE:	07-DEC-2021
DRAWN BY:	R. PELLETT
CHECKED BY:	D. PETERSON
SHEET	4 OF 15



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

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(51)	
FILE NAME: sl9b2l8bdrer.o.dgn	PLOT DATE: 07-DEC-2021
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: R. PELLETT	CHECKED BY: D. PETERSON
EPSC EXISTING SITE PLAN	SHEET 5 OF 15



BENCHMARK  
RAILROAD SPIKE  
IN POLE  
ELEV = 451.01

VT ROUTE 36  
TO ST. ALBANS TOWN

VT ROUTE 36  
TO BAKERSFIELD

BEGIN APPROACH  
STA 98+50.00

BEGIN PROJECT  
STA 98+75.00

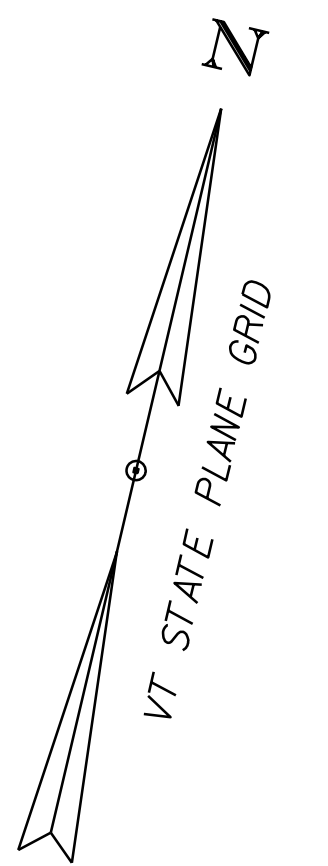
BEGIN BRIDGE  
STA 99+54.00

BK STA 100+00.00  
= CHAN 51+00.00  
Δ = 60°0'0" LT

END BRIDGE  
STA 100+43.50

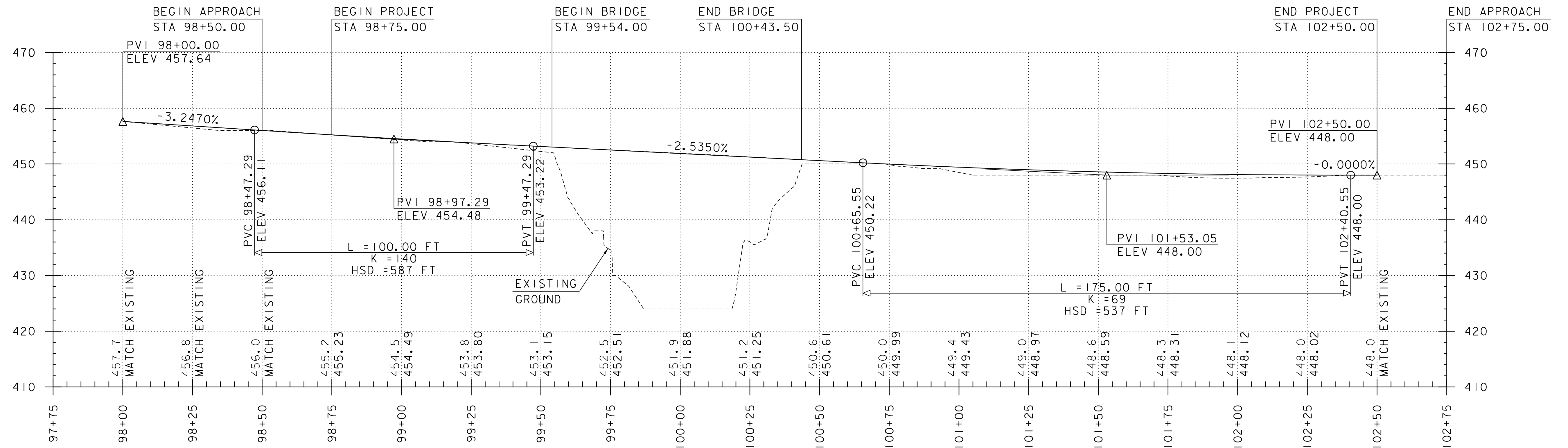
END APPROACH  
STA 102+75.00

END PROJECT  
STA 102+50.00



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

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(51)	
FILE NAME: sl9b218border.dgn	PLOT DATE: 07-DEC-2021
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: D. PETERSON
DECK REPLACEMENT LAYOUT	SHEET 6 OF 15

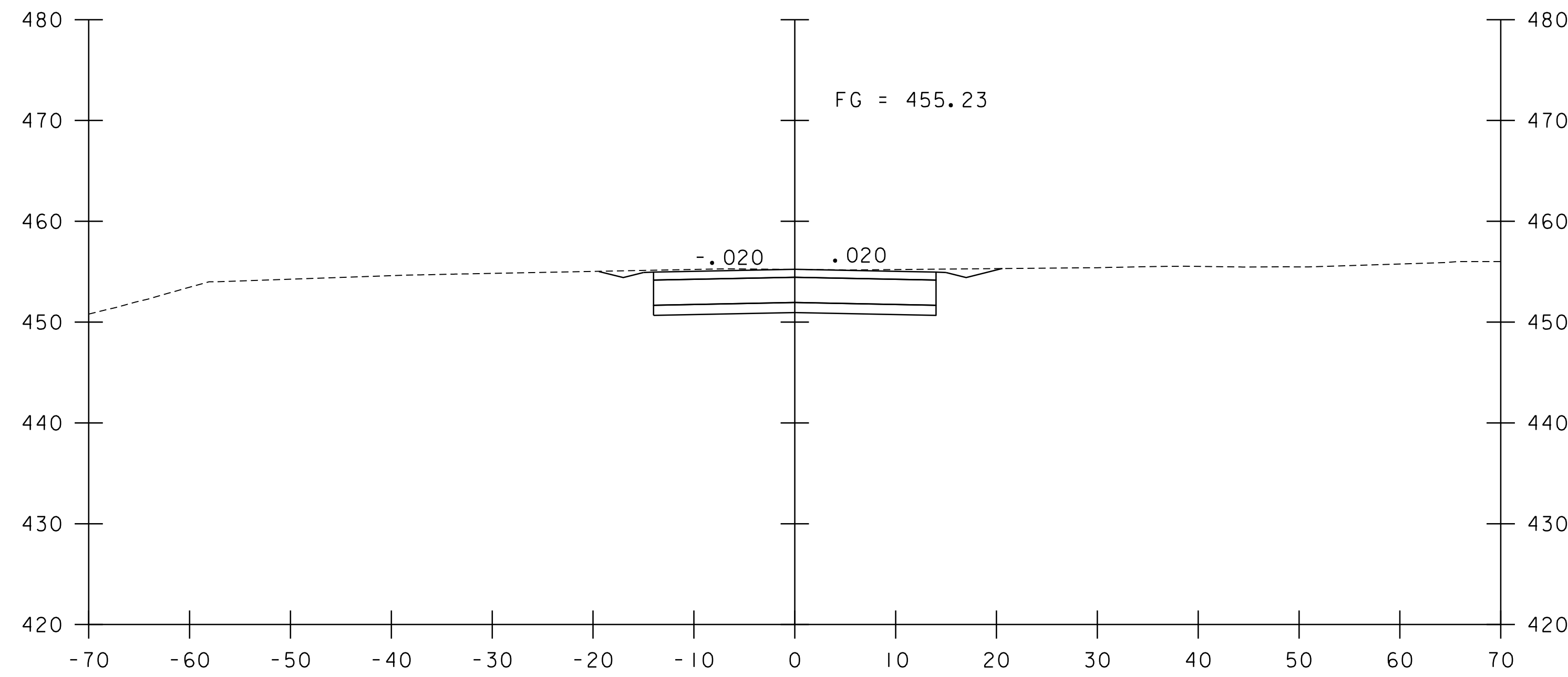


**VT ROUTE 36 PROFILE**

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

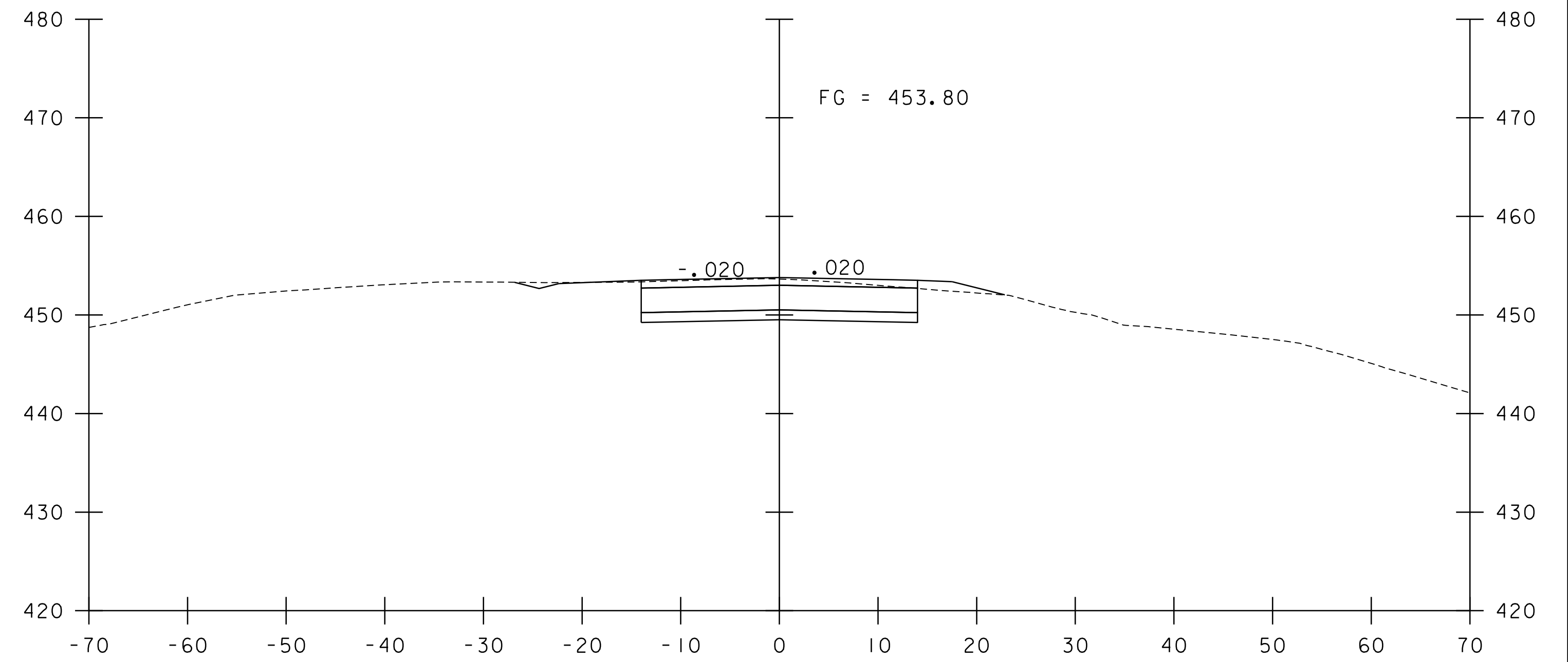
NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG CL  
GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG CL

PROJECT NAME: FAIRFIELD	PLOT DATE: 07-DEC-2021
PROJECT NUMBER: STP DECK(51)	DRAWN BY: R. PELLETT
FILE NAME: s19b218profile.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: R. YOUNG	SHEET 7 OF 15
DESIGNED BY: C. FRENCH	
VT 36 PROFILE	

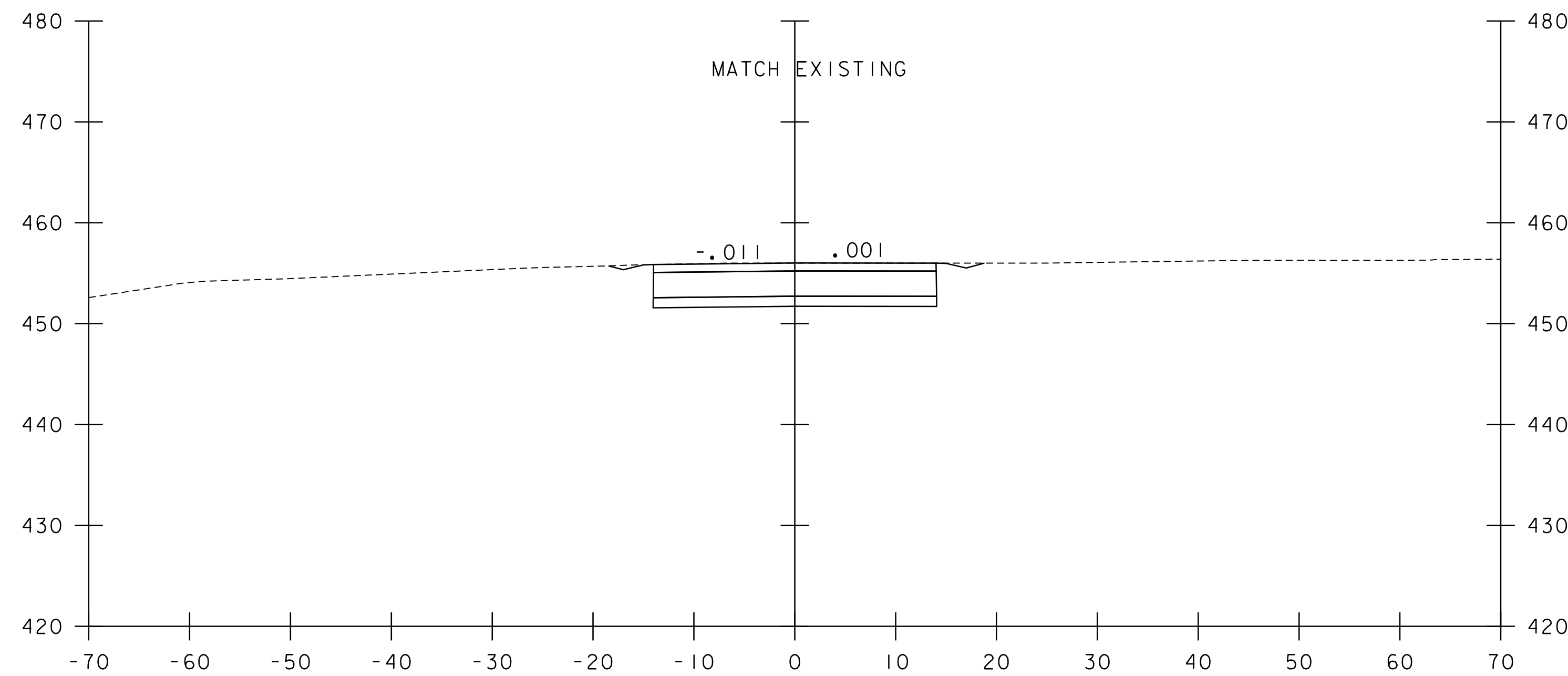


BEGIN PROJECT

98+75

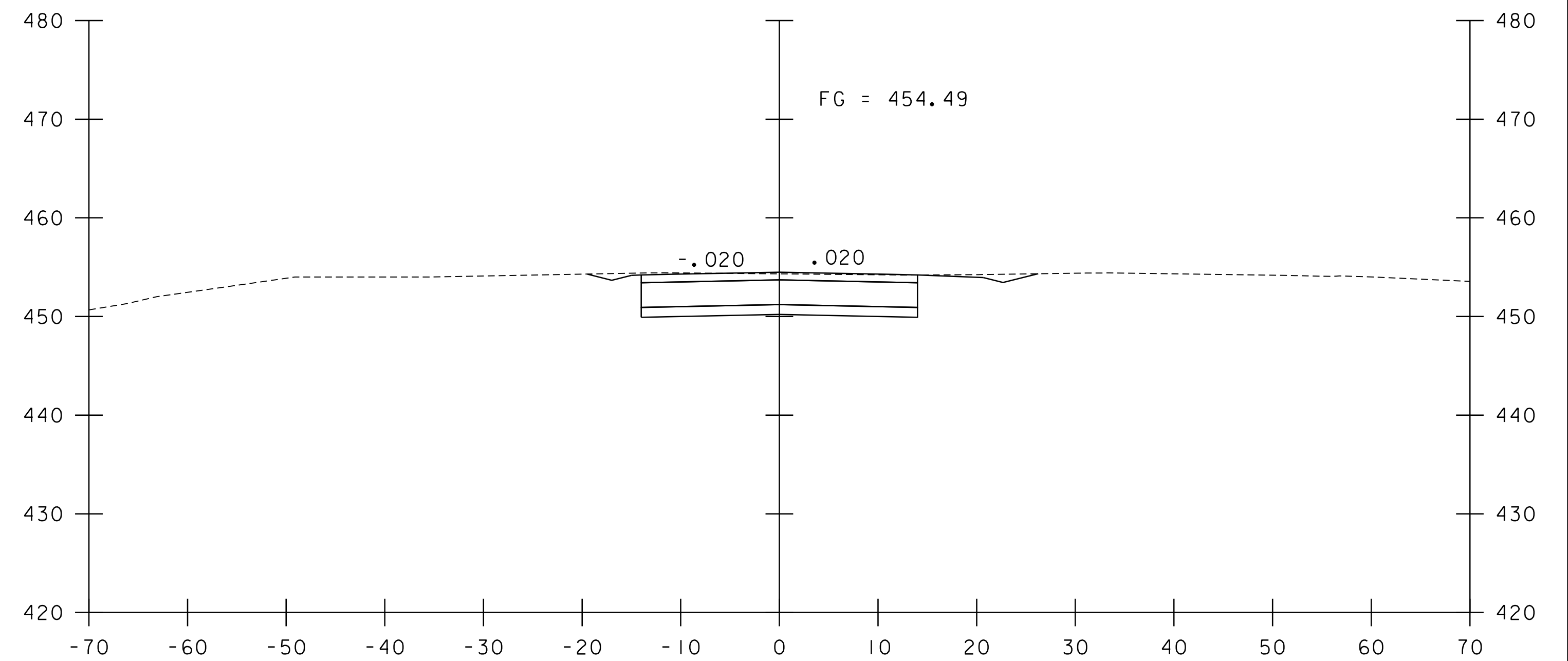


99+25



BEGIN APPROACH

98+50

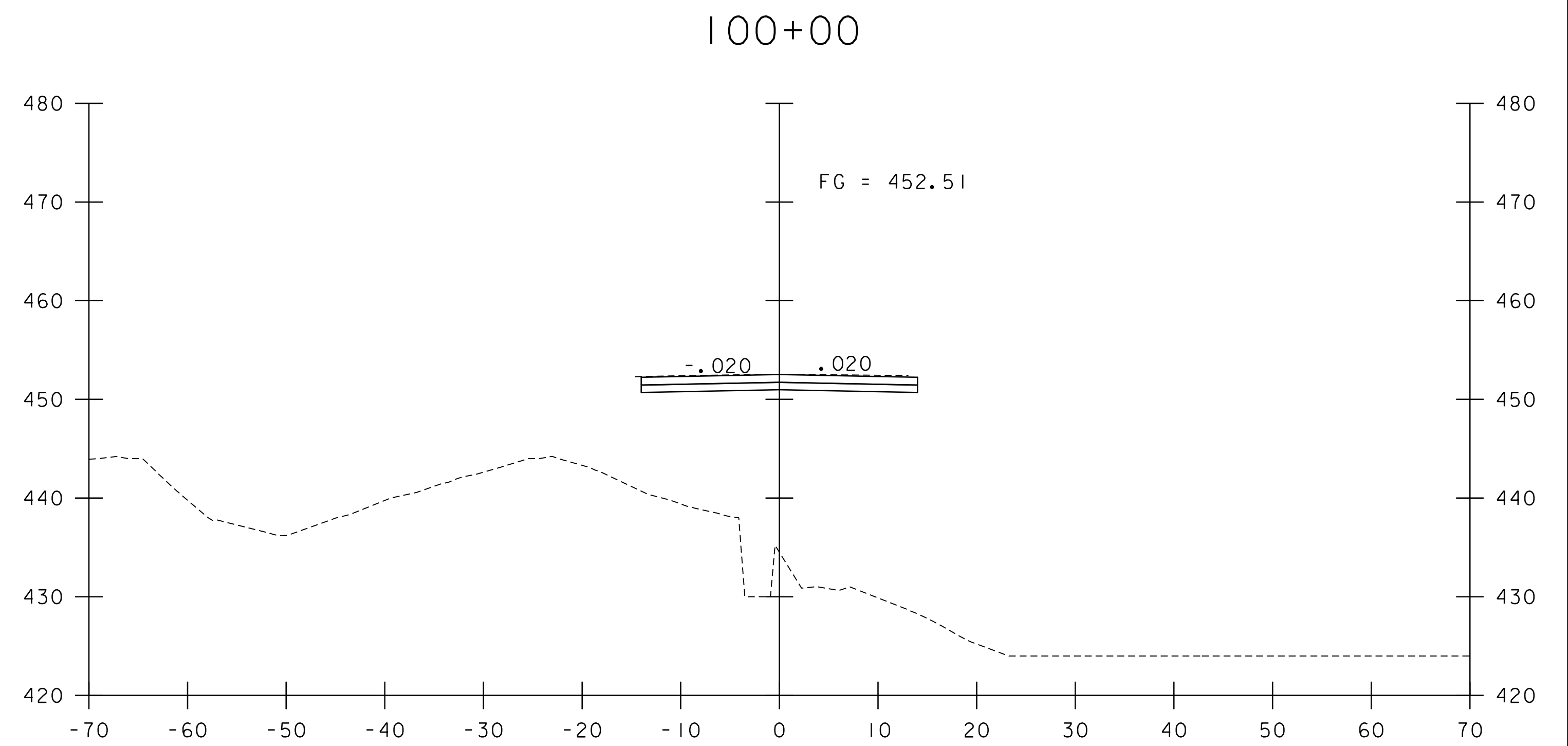
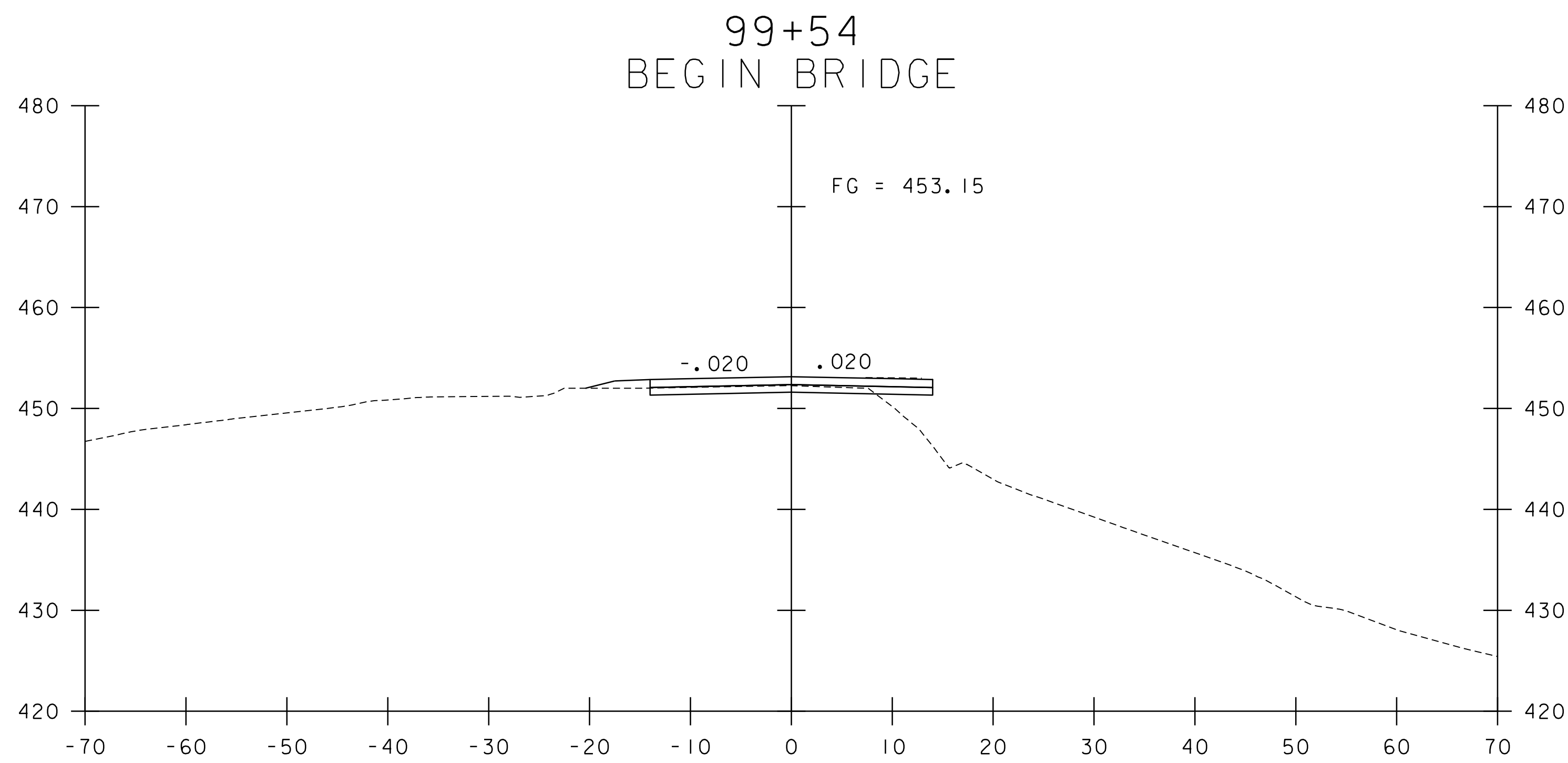
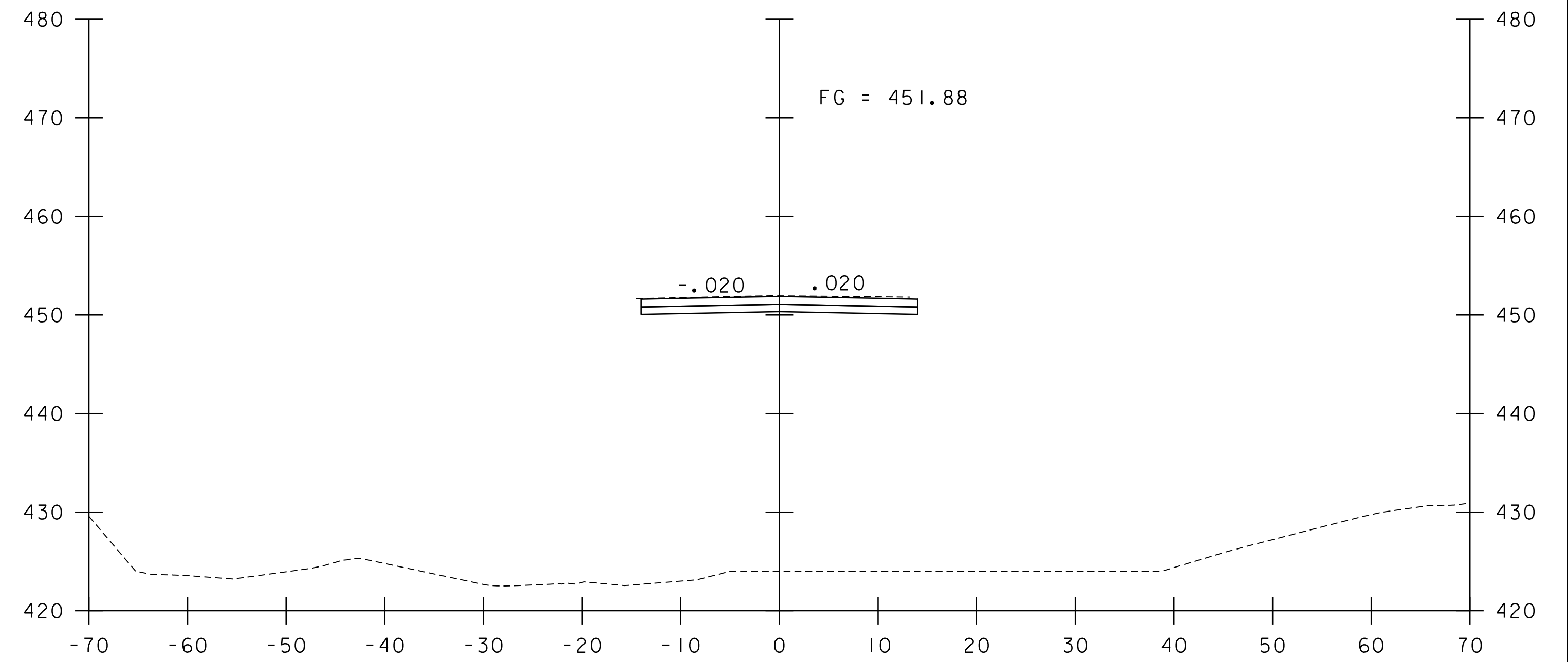
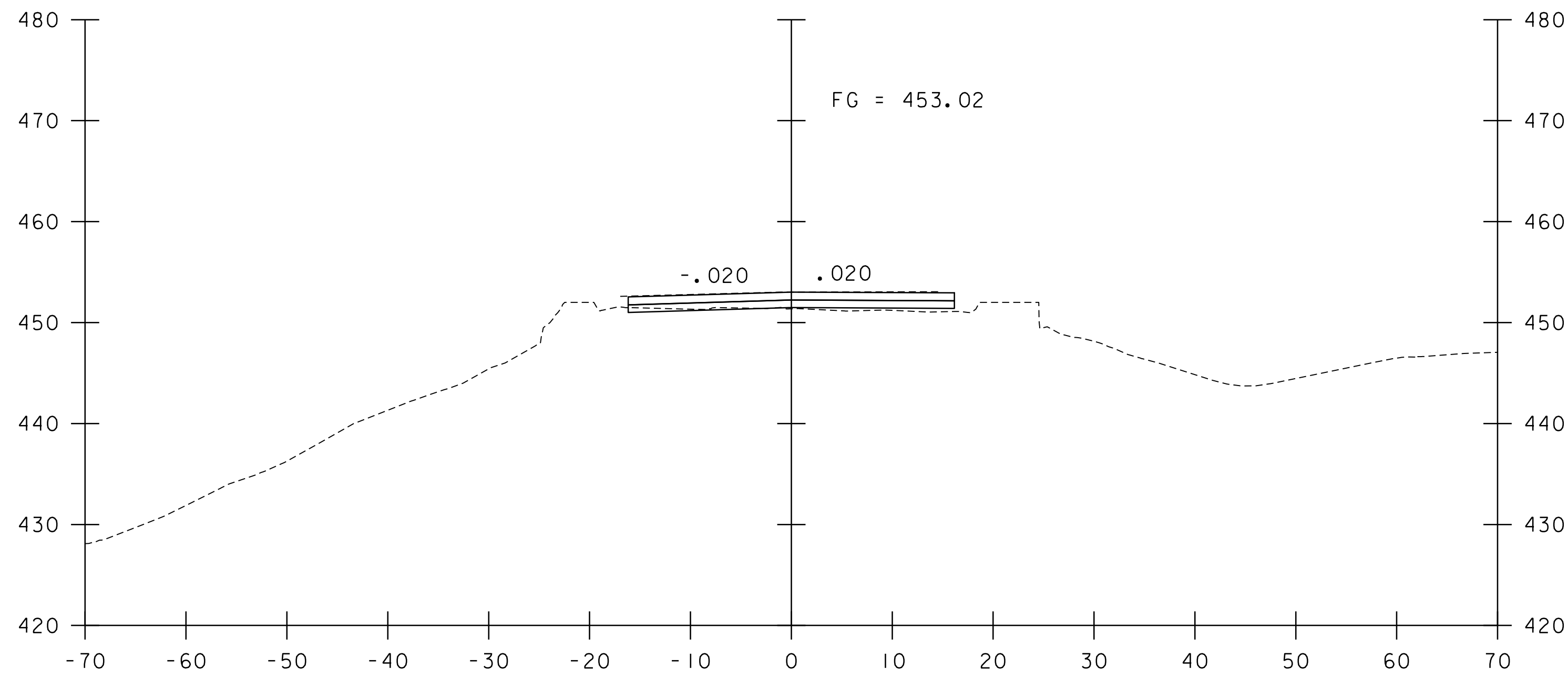


99+00

STA. 98+50 TO STA. 99+25

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: s19b218xs.dgn	PLOT DATE: 07-DEC-2021
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTIONS 1	SHEET 8 OF 15



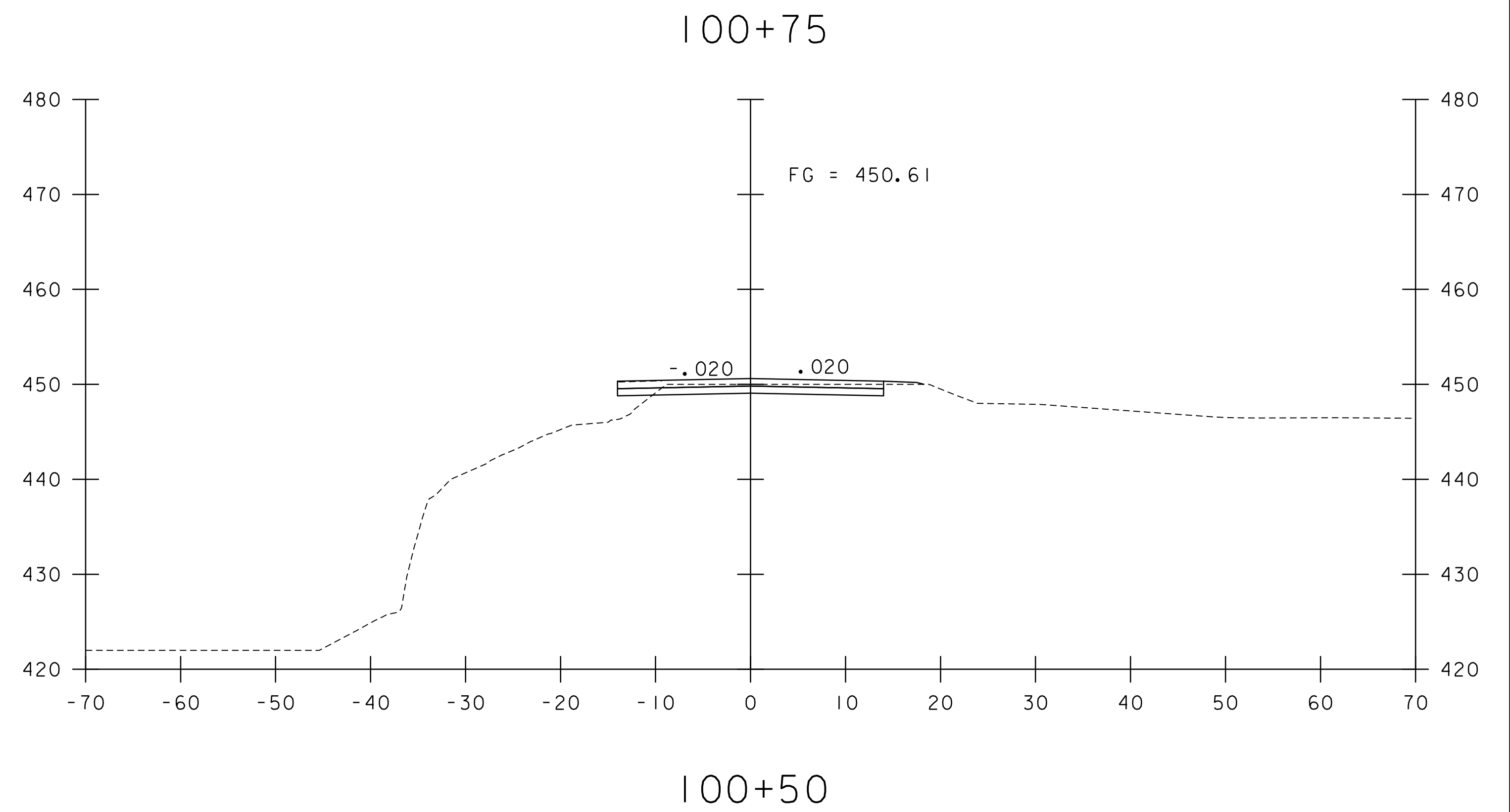
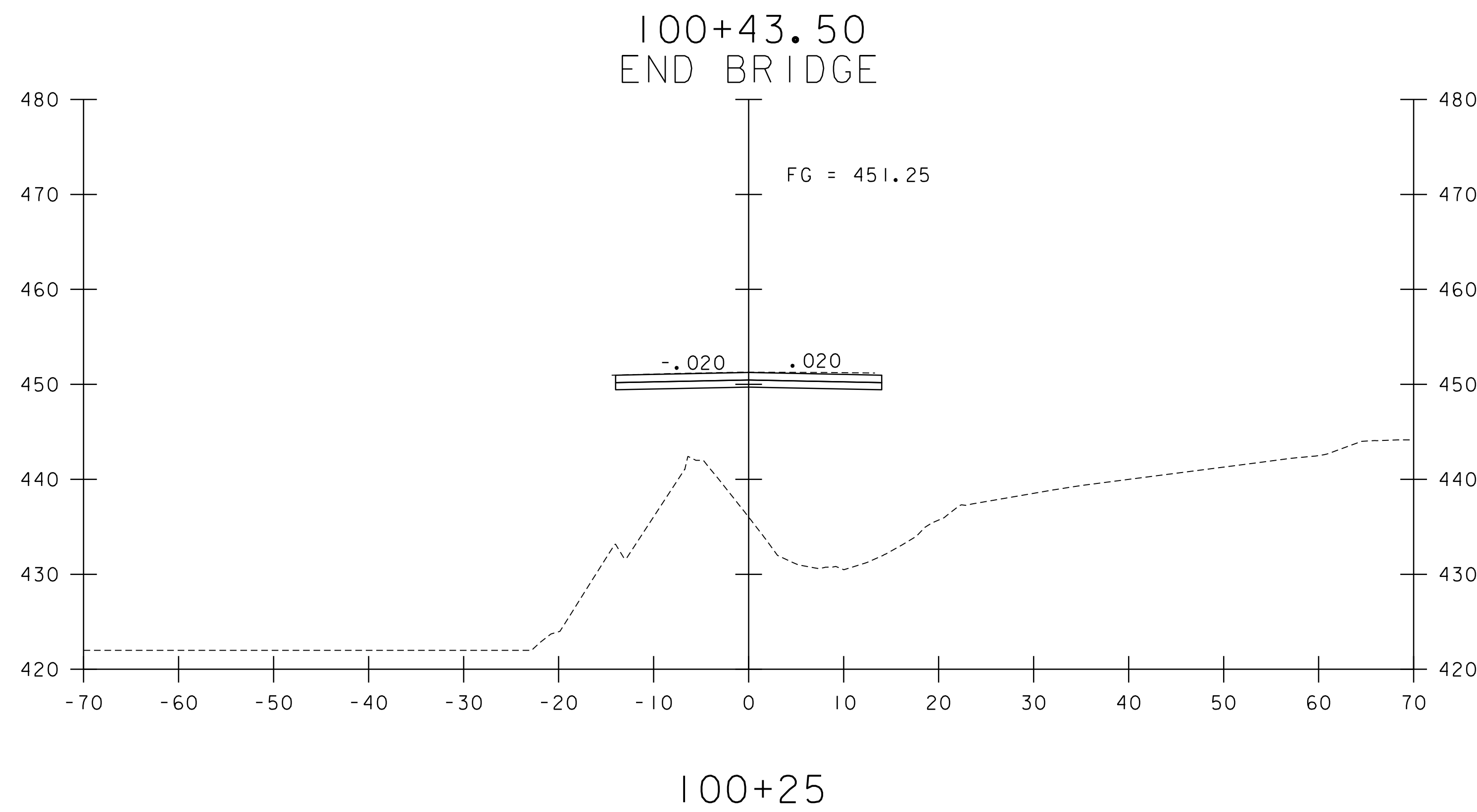
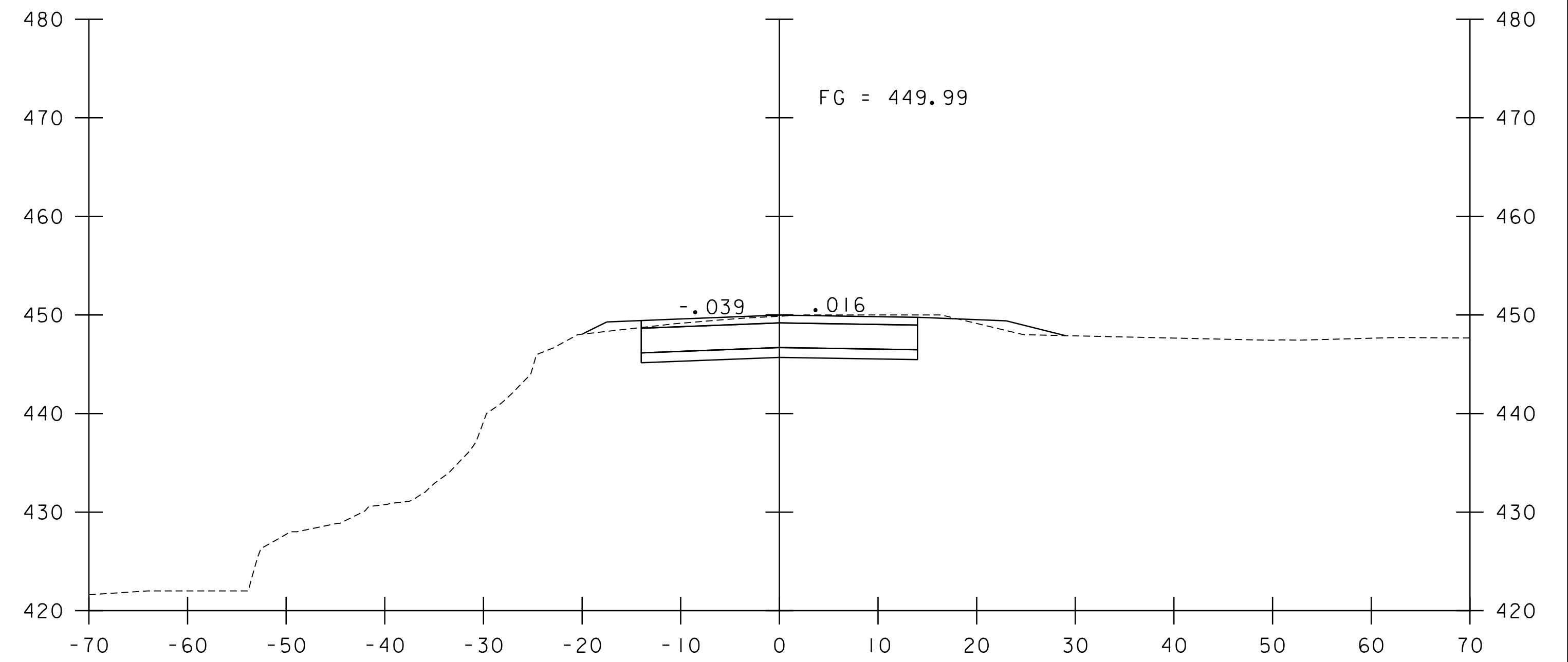
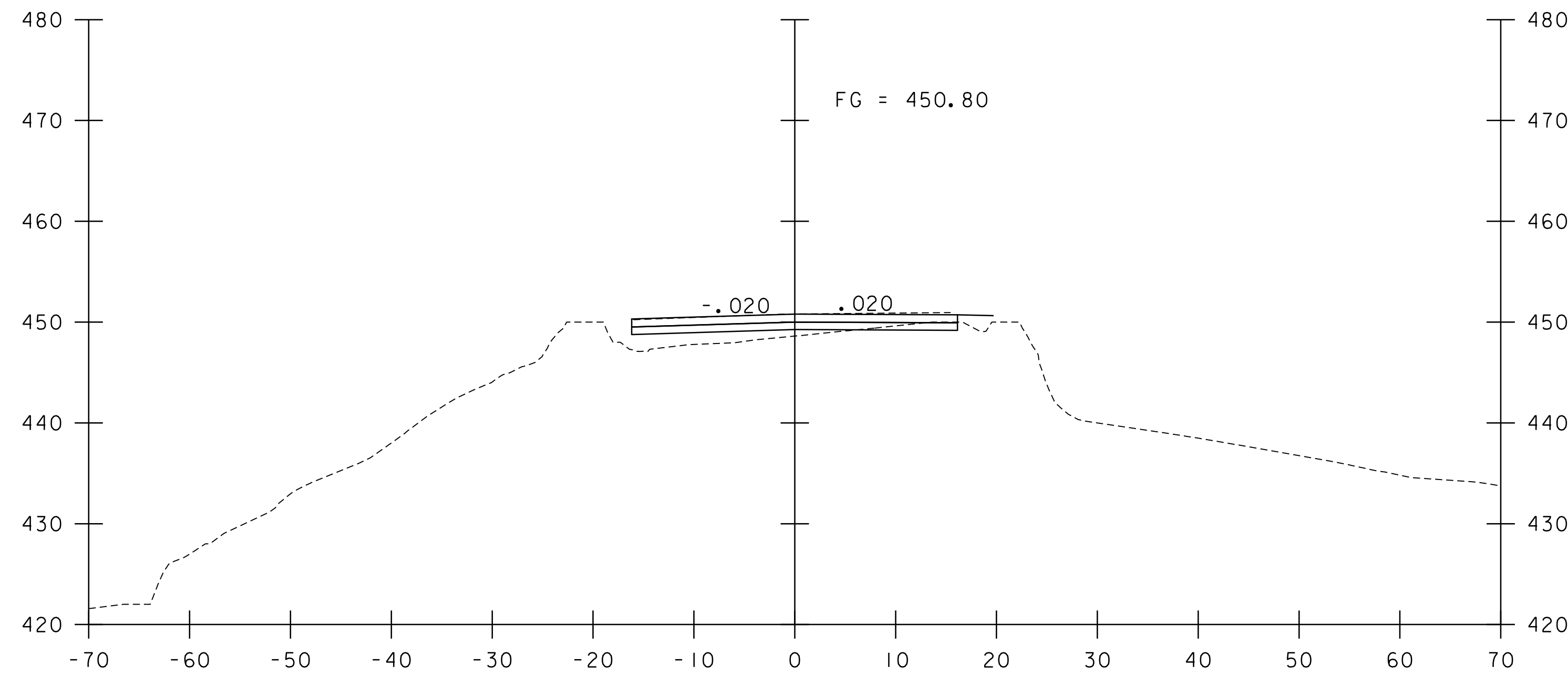


99+50

99+75

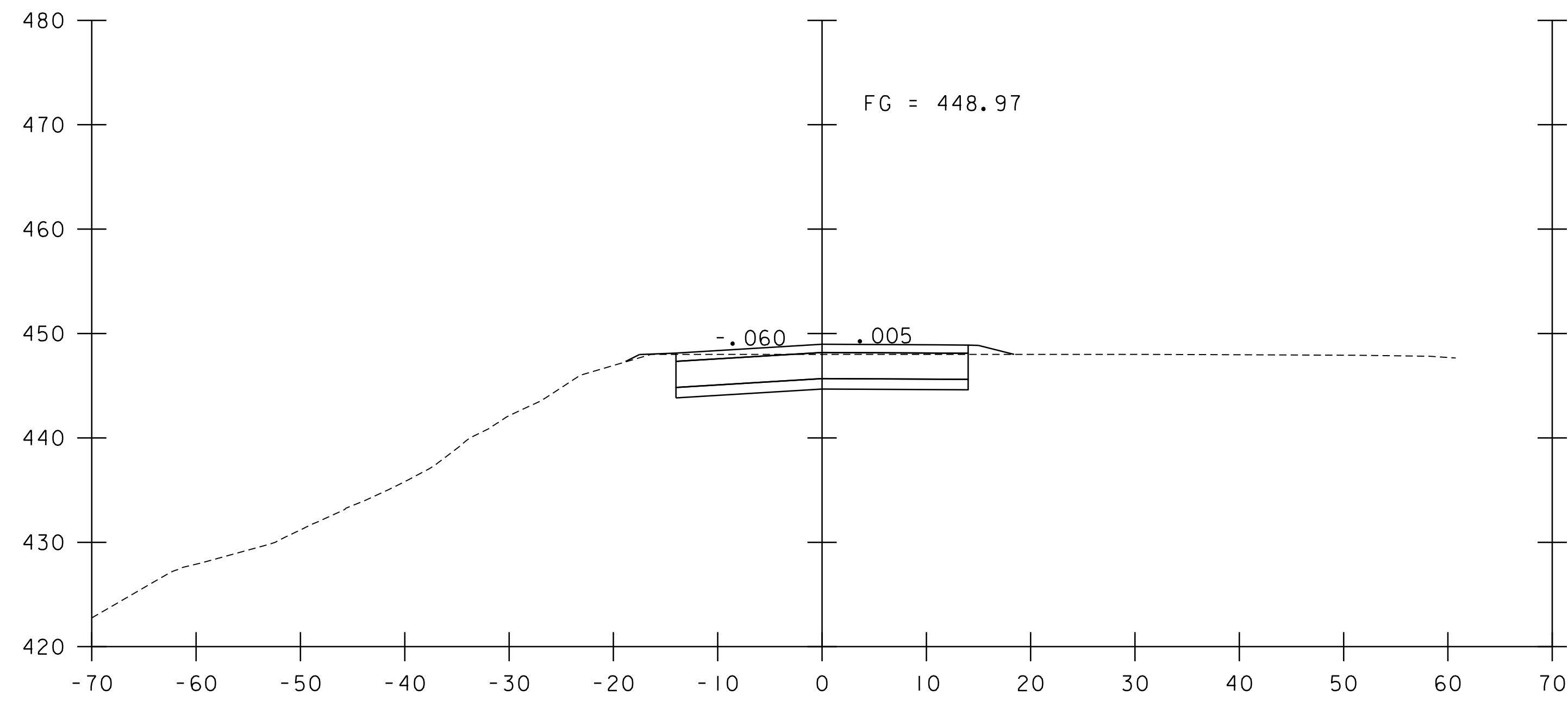
STA. 99+50 TO STA. 100+00

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: s19b218xs.dgn	PLOT DATE: 07-DEC-2021
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTIONS 2	SHEET 9 OF 15

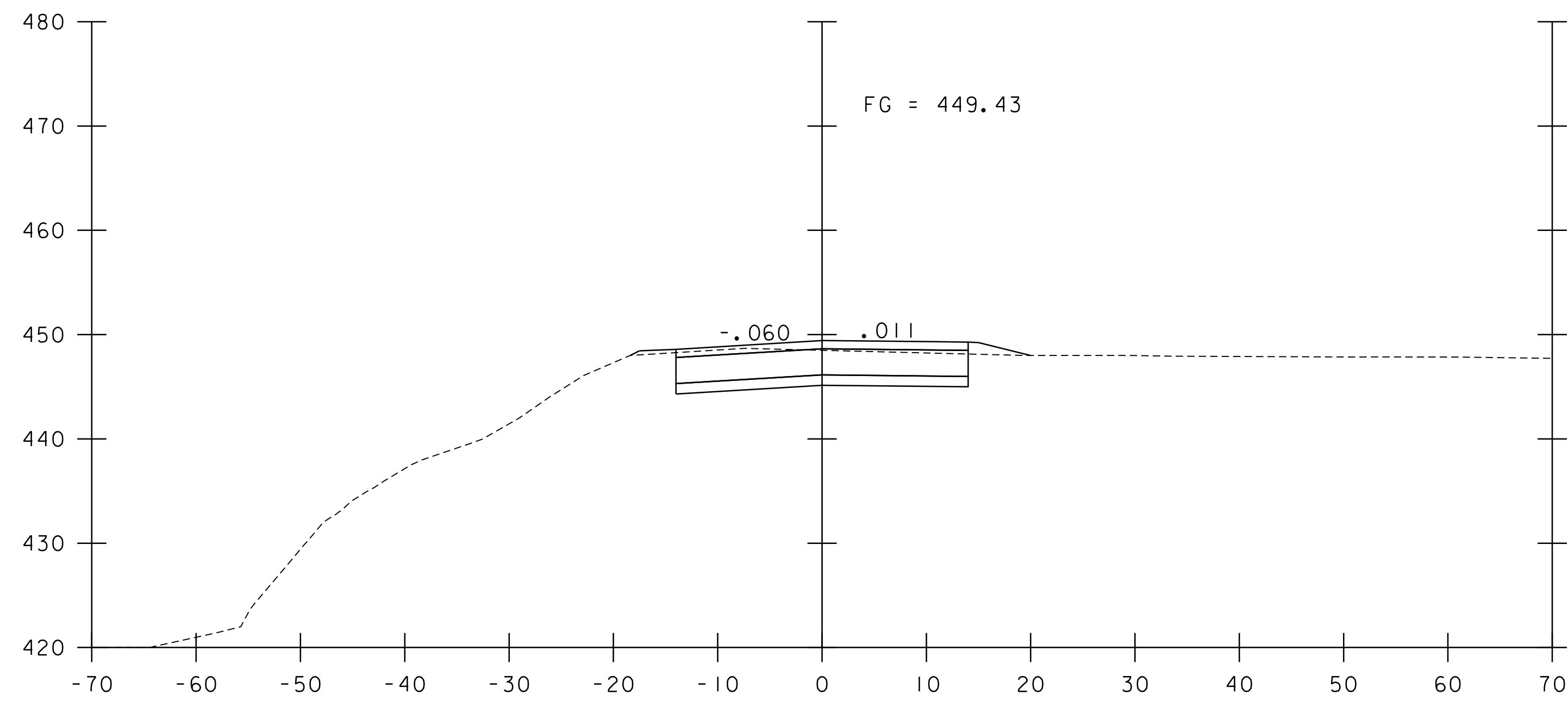


STA. 100+25 TO STA. 100+75

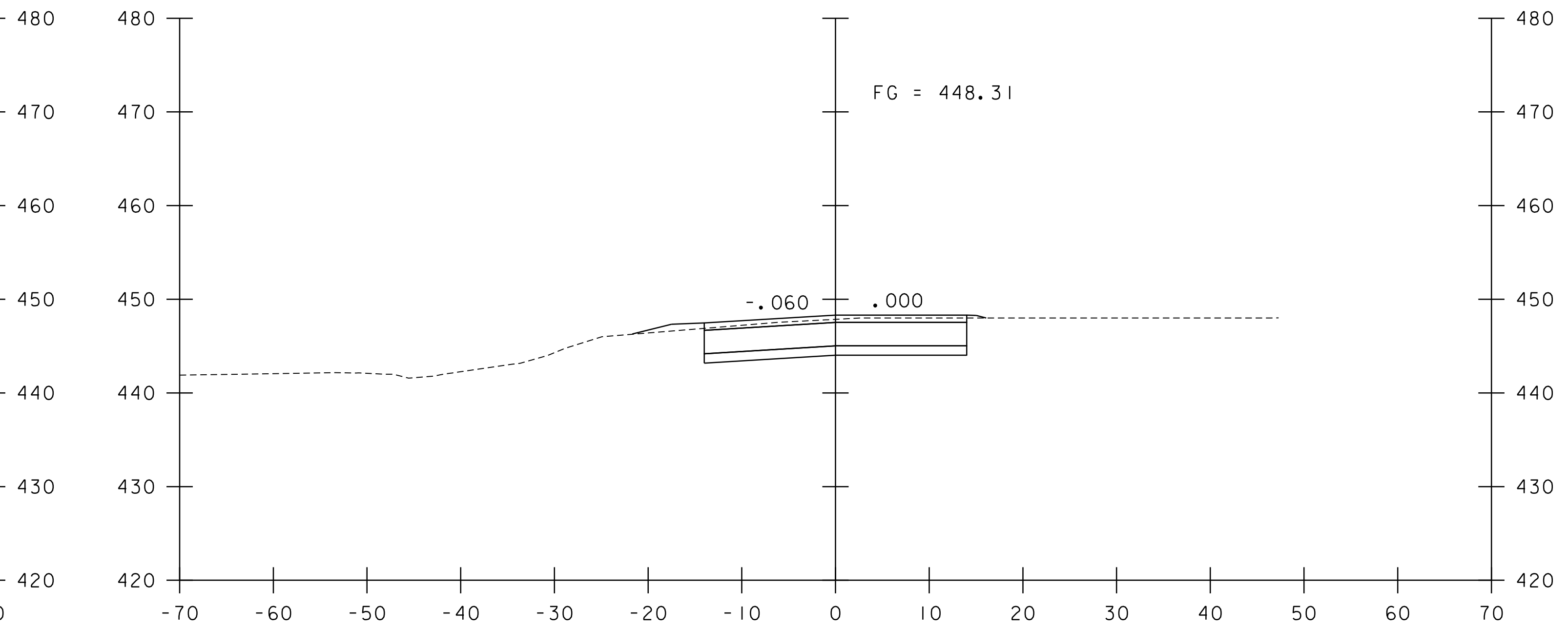
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PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTIONS 3	SHEET 10 OF 15



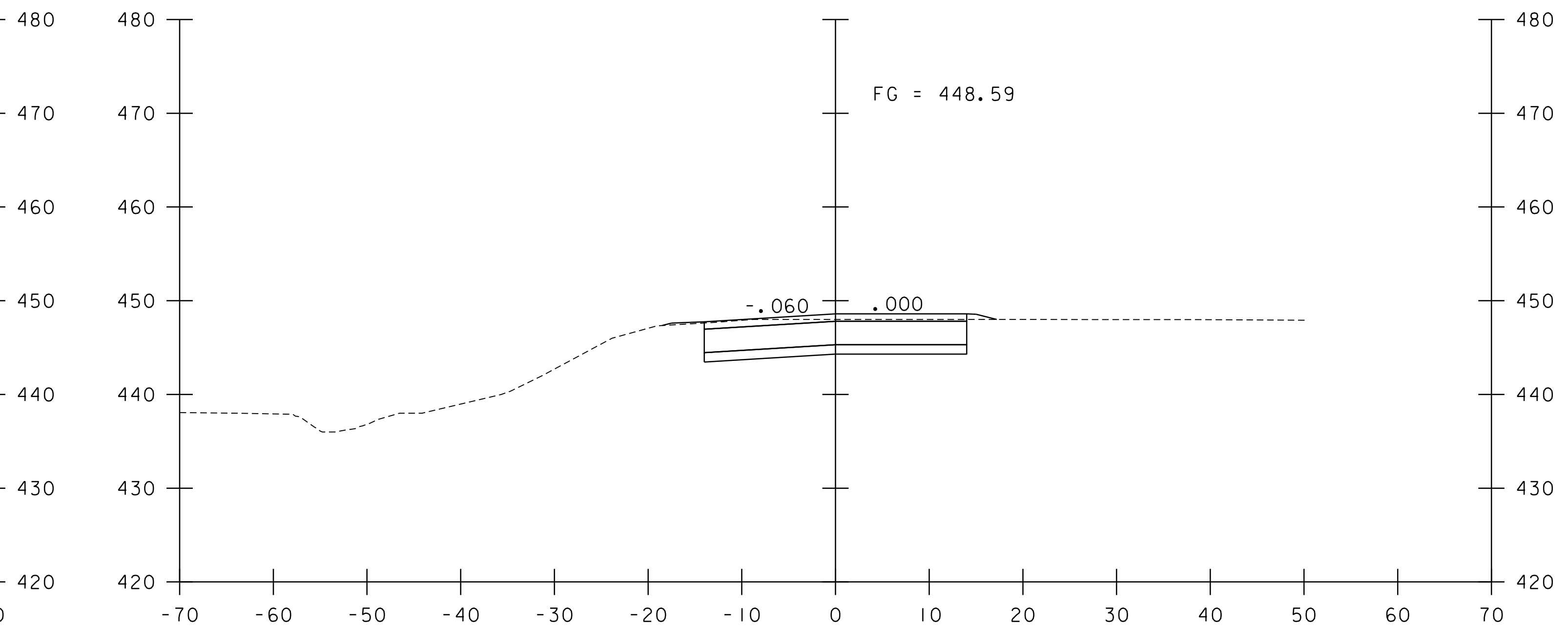
101+25



101+00



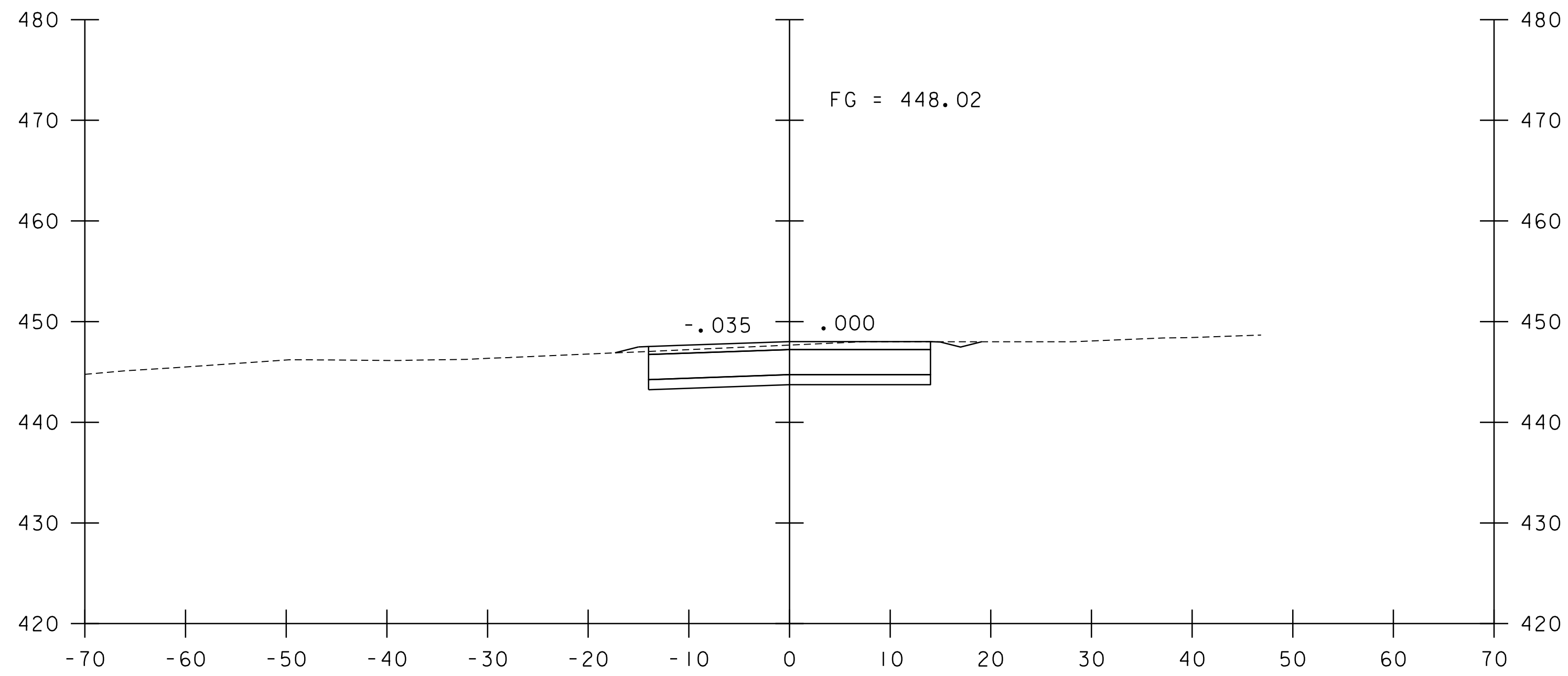
101+75



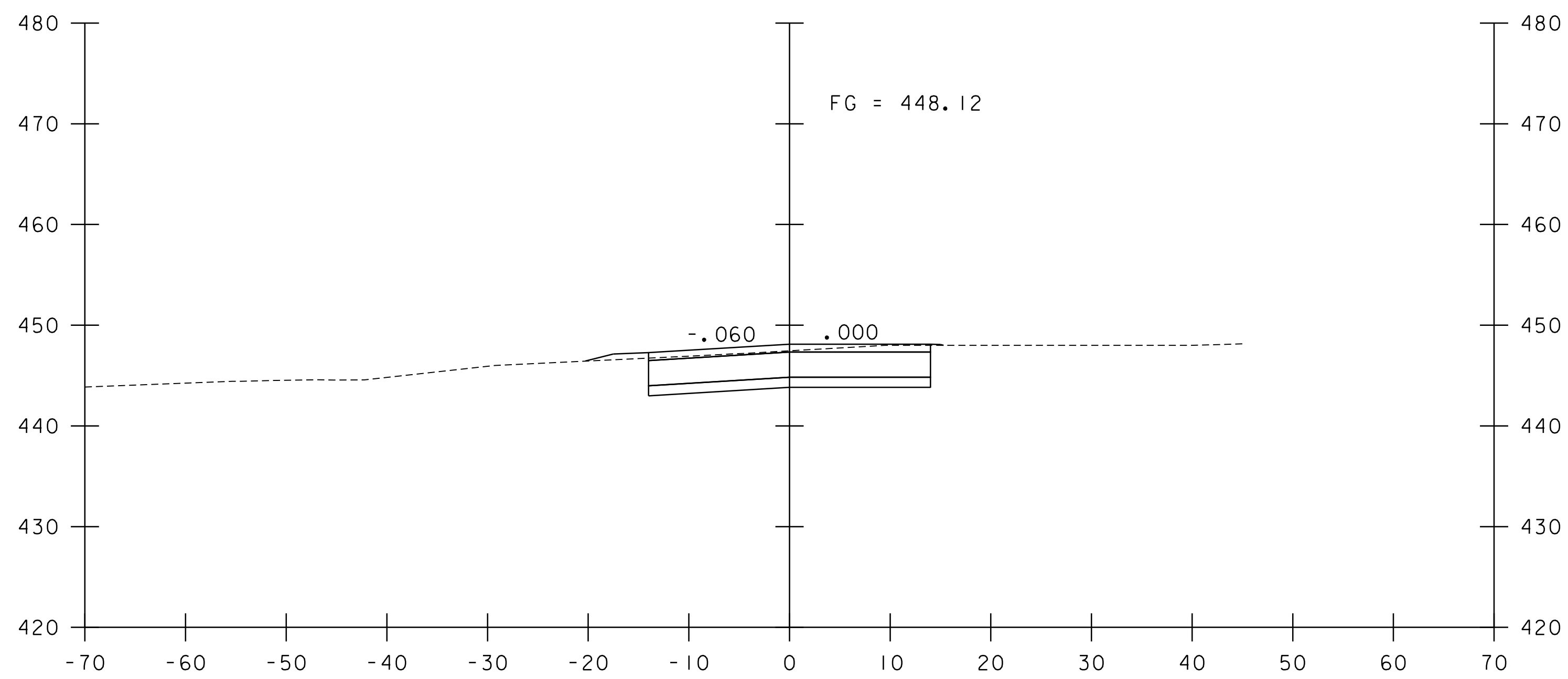
101+50

STA. 101+00 TO STA. 101+75

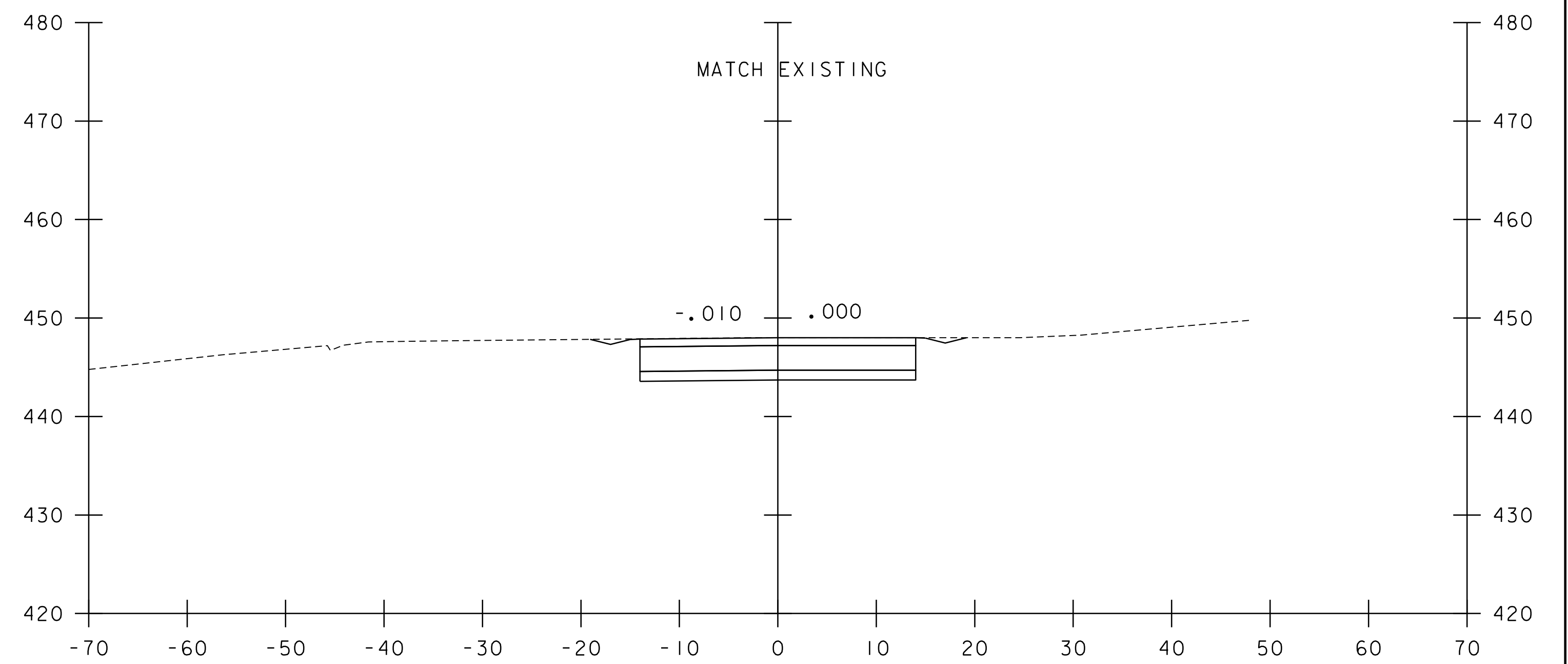
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: s19b218xs.dgn	PLOT DATE: 07-DEC-2021
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTIONS 4	SHEET 11 OF 15



102+25



102+00



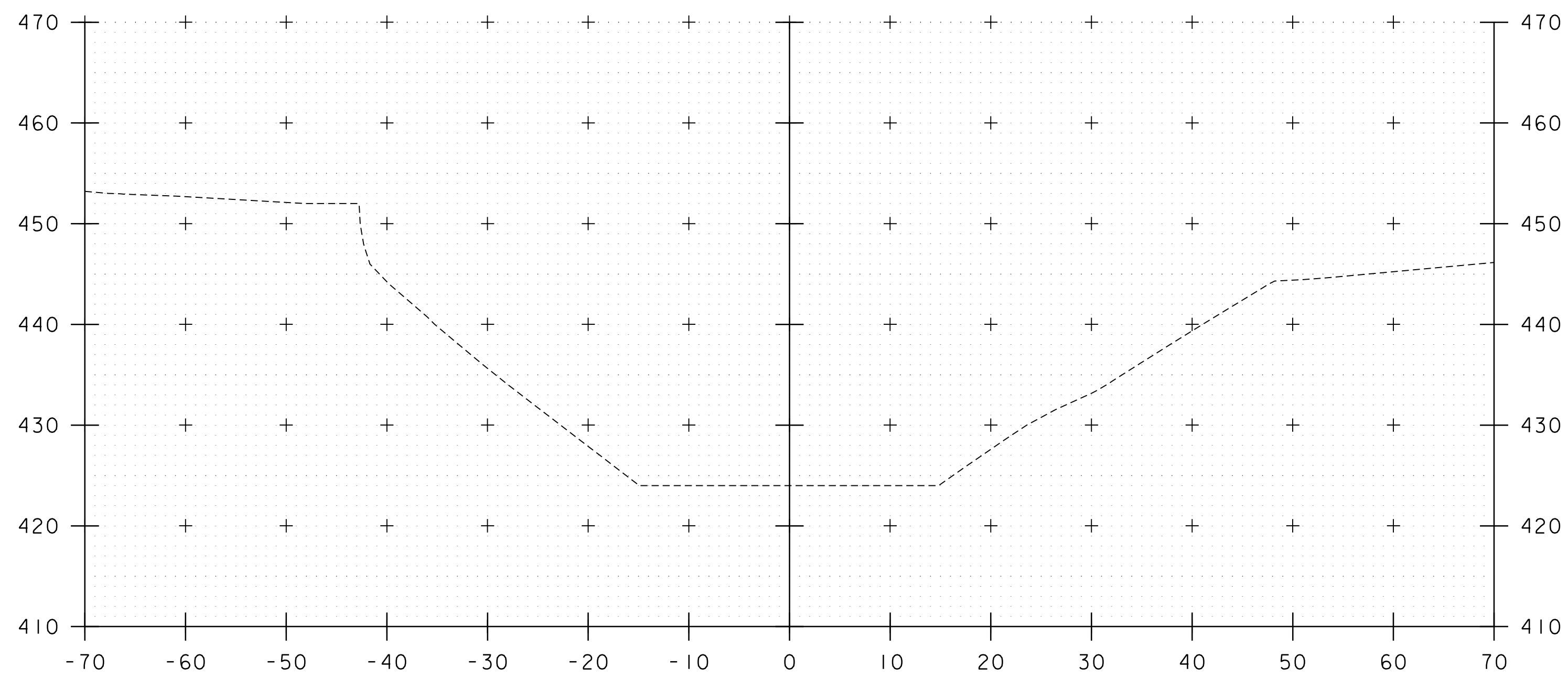
END PROJECT  
102+50

102+50

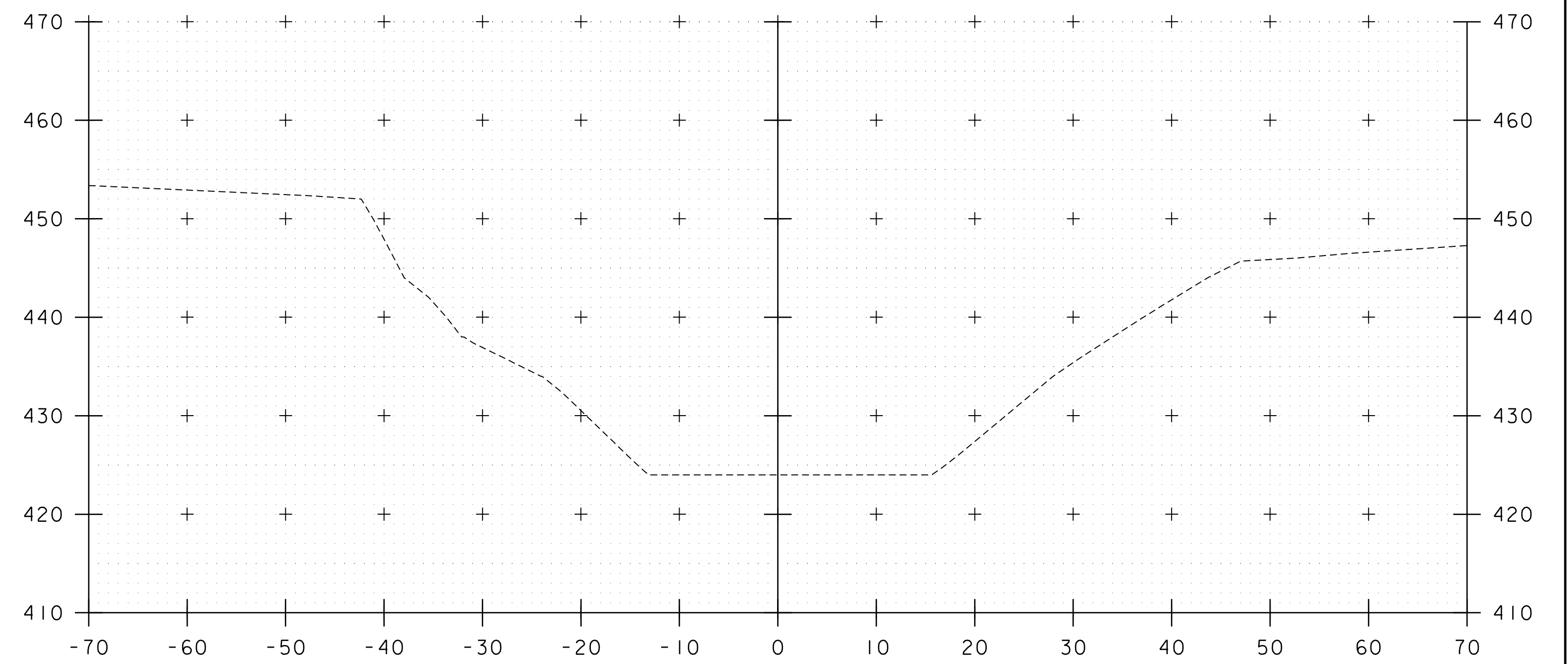
END APPROACH  
102+75

STA. 102+00 TO STA. 102+50

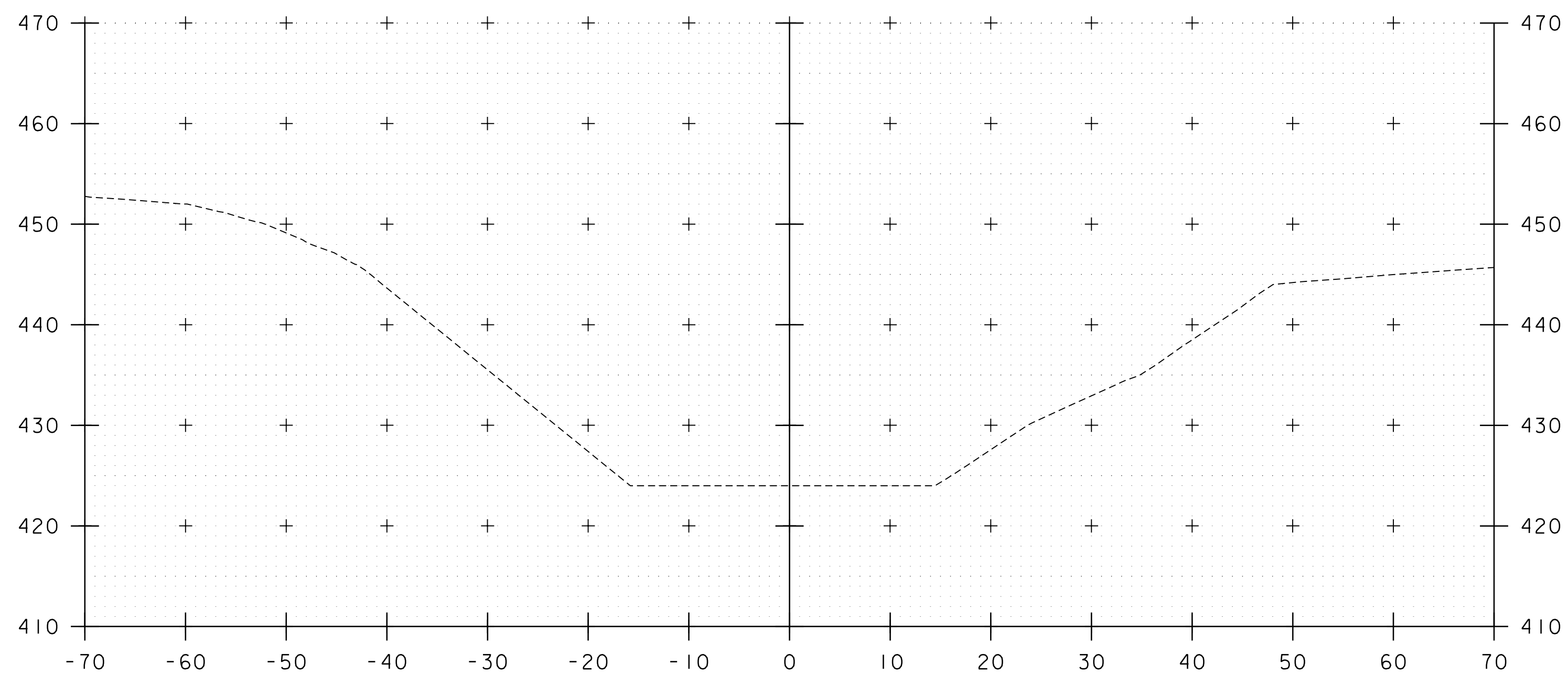
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: s19b218xs.dgn	PLOT DATE: 07-DEC-2021
PROJECT LEADER: R. YOUNG	DRAWN BY: R. PELLETT
DESIGNED BY: C. FRENCH	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTIONS 5	SHEET 12 OF 15



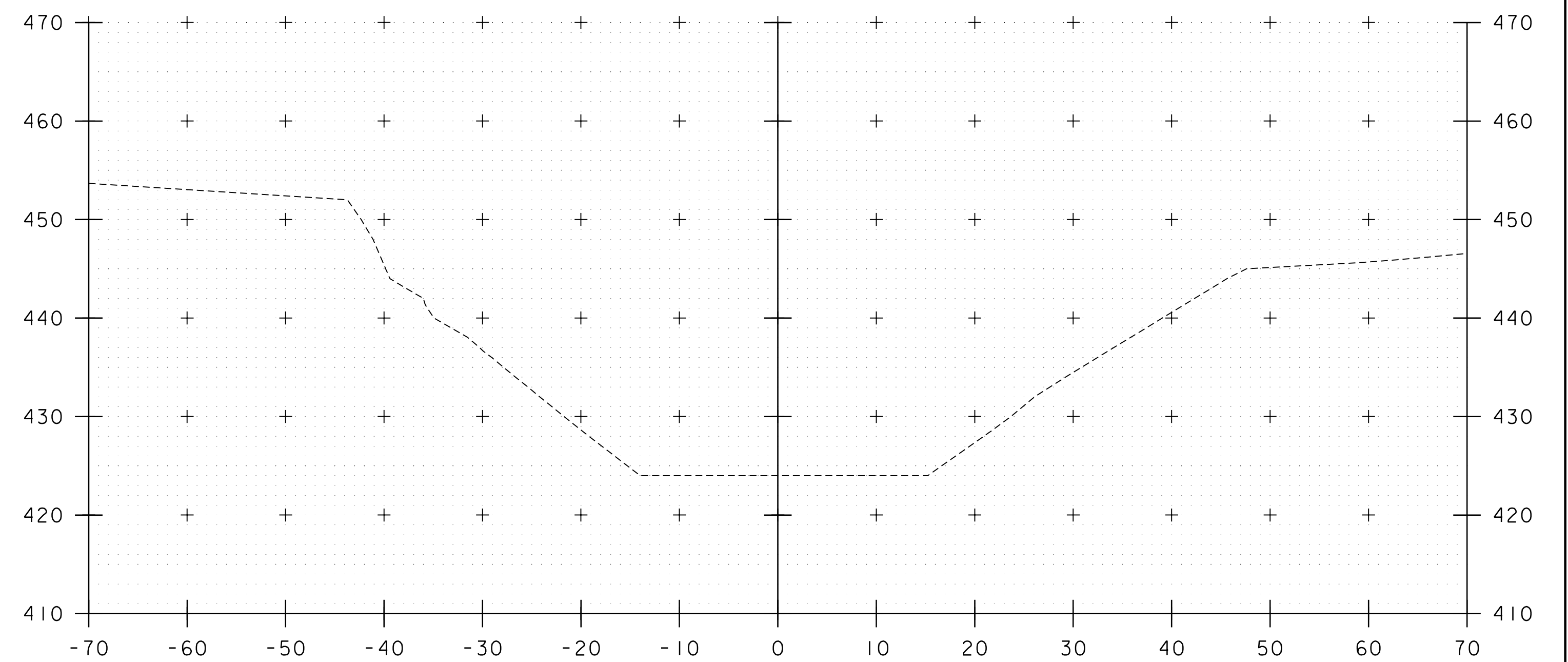
50+60



50+80



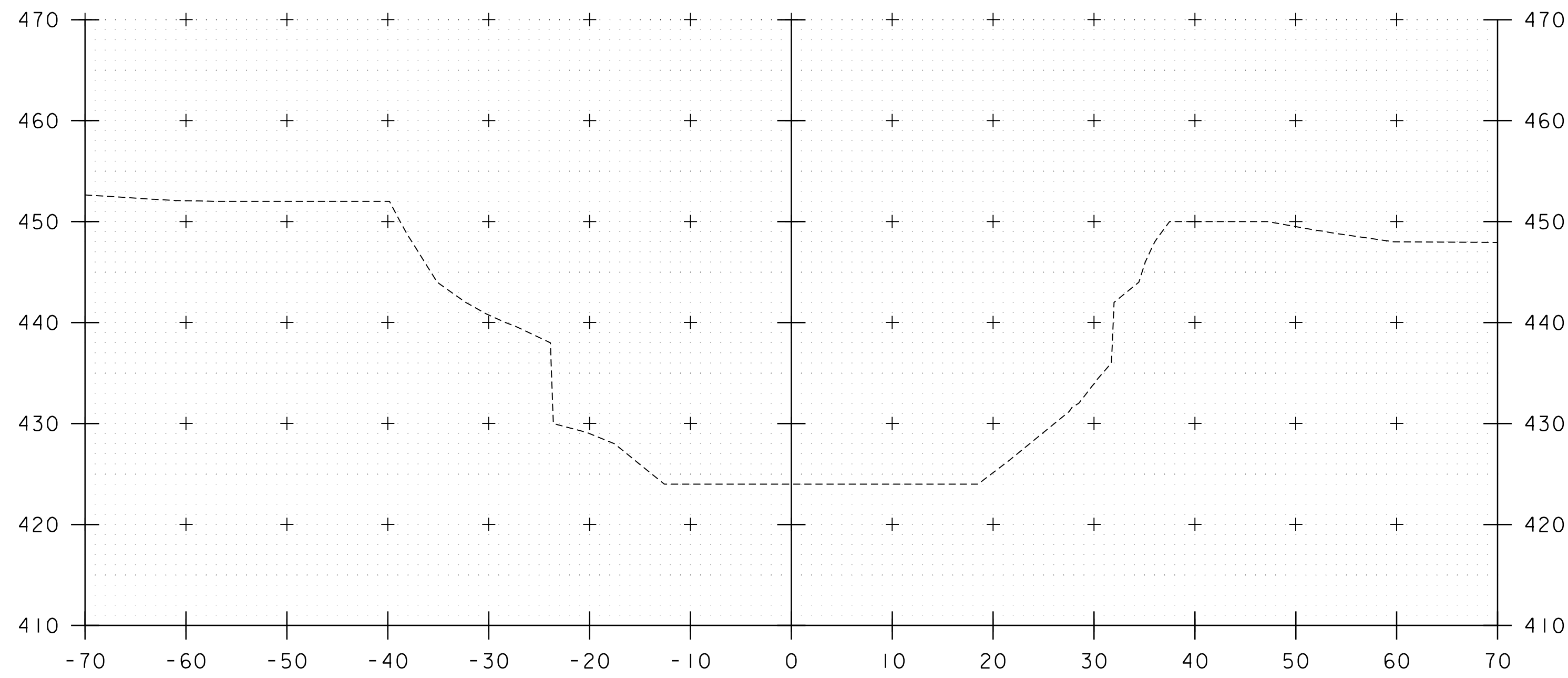
50+50



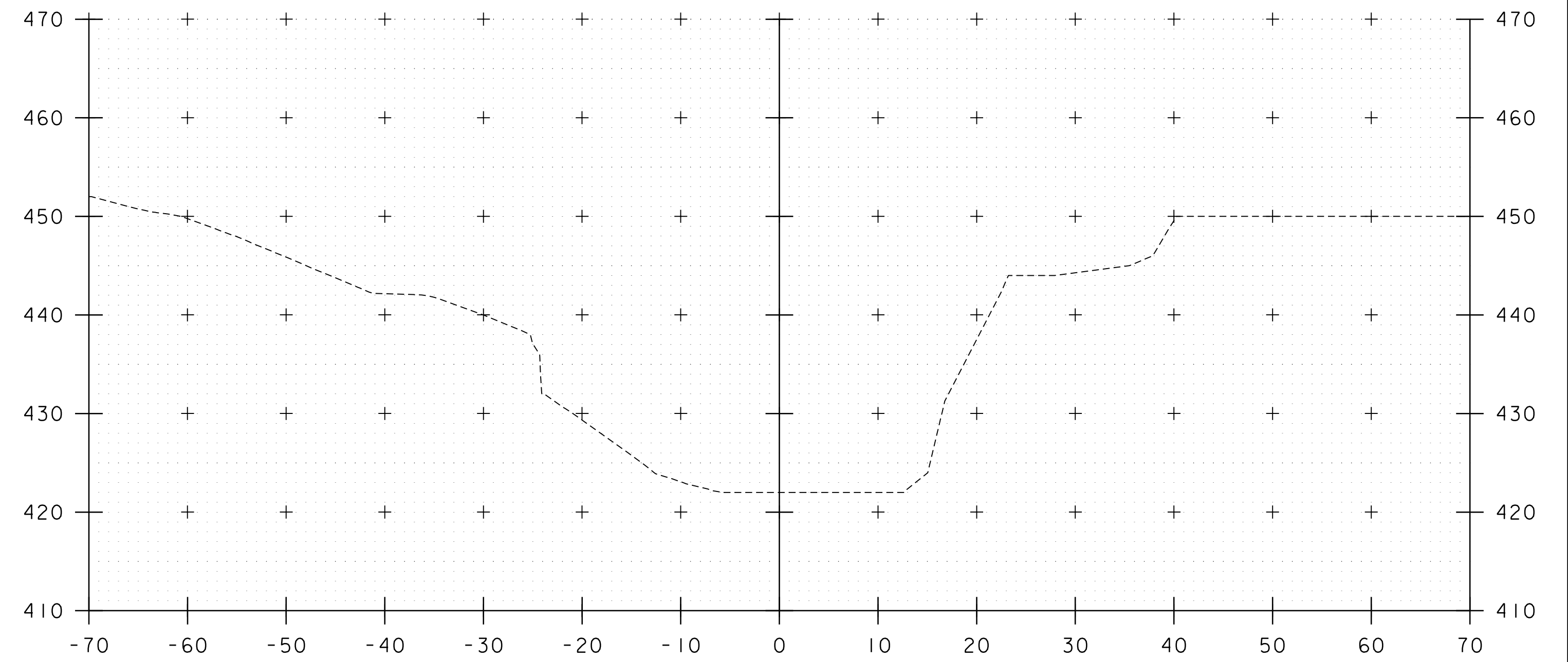
50+70

STA. 50+50 TO STA. 50+80

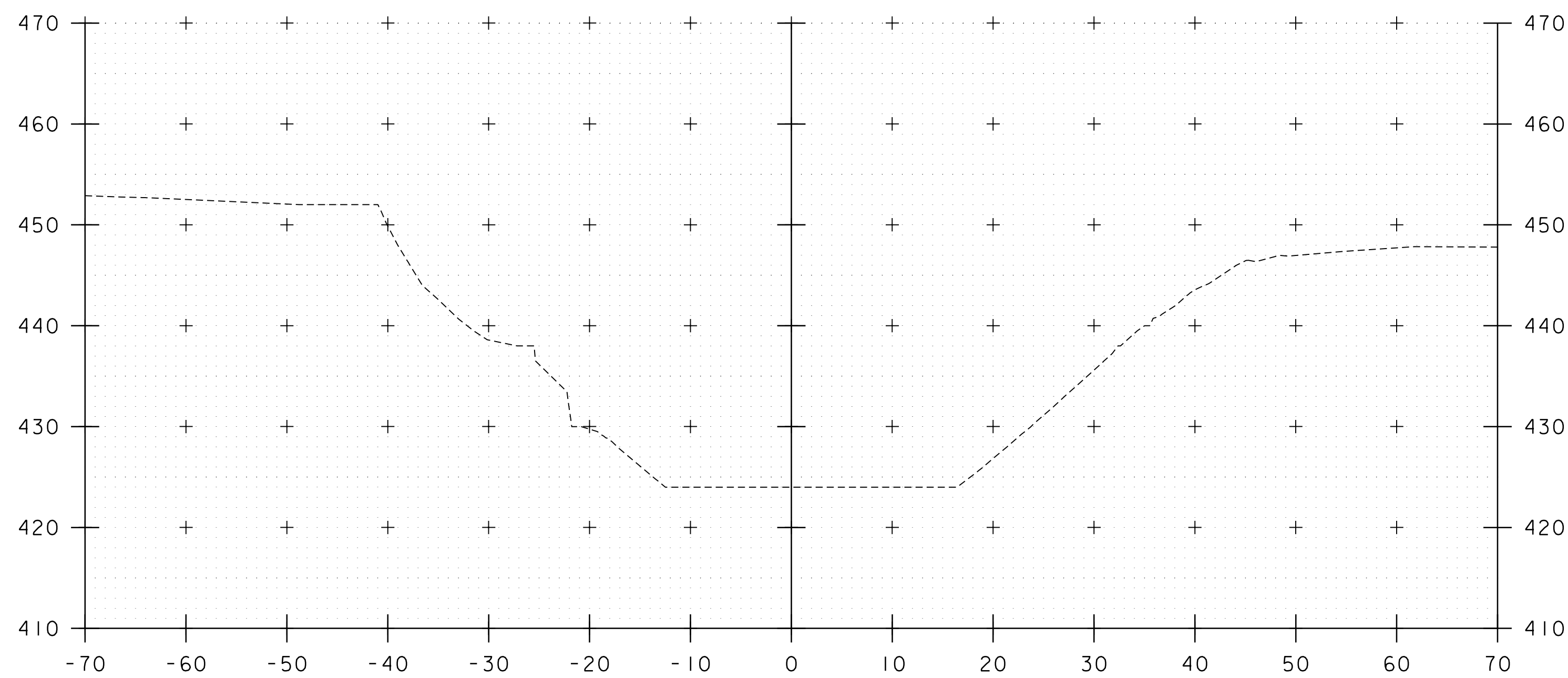
PROJECT NAME:	FAIRFIELD	PLOT DATE:	07-DEC-2021
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	R. PELLETT
FILE NAME:	sl9b2l8xs.dgn	DESIGNED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS I		SHEET	13 OF 15



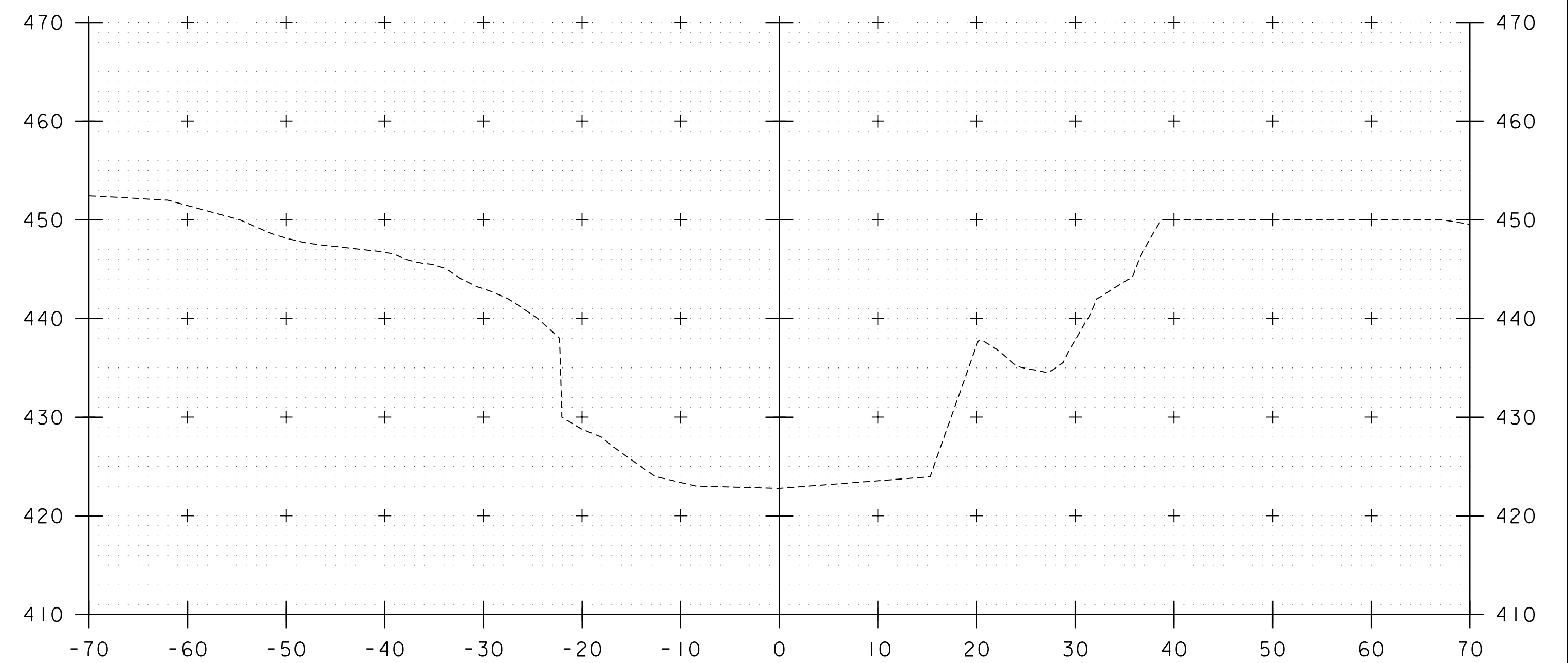
51+00



51+20



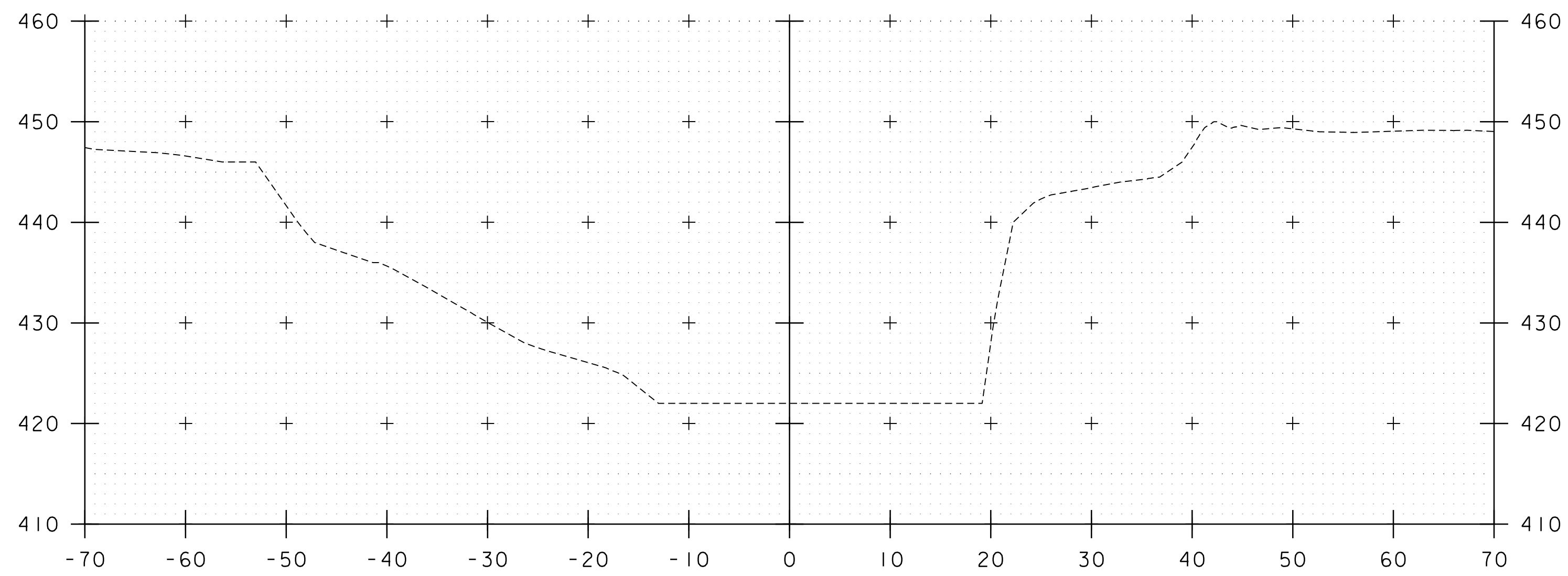
50+90



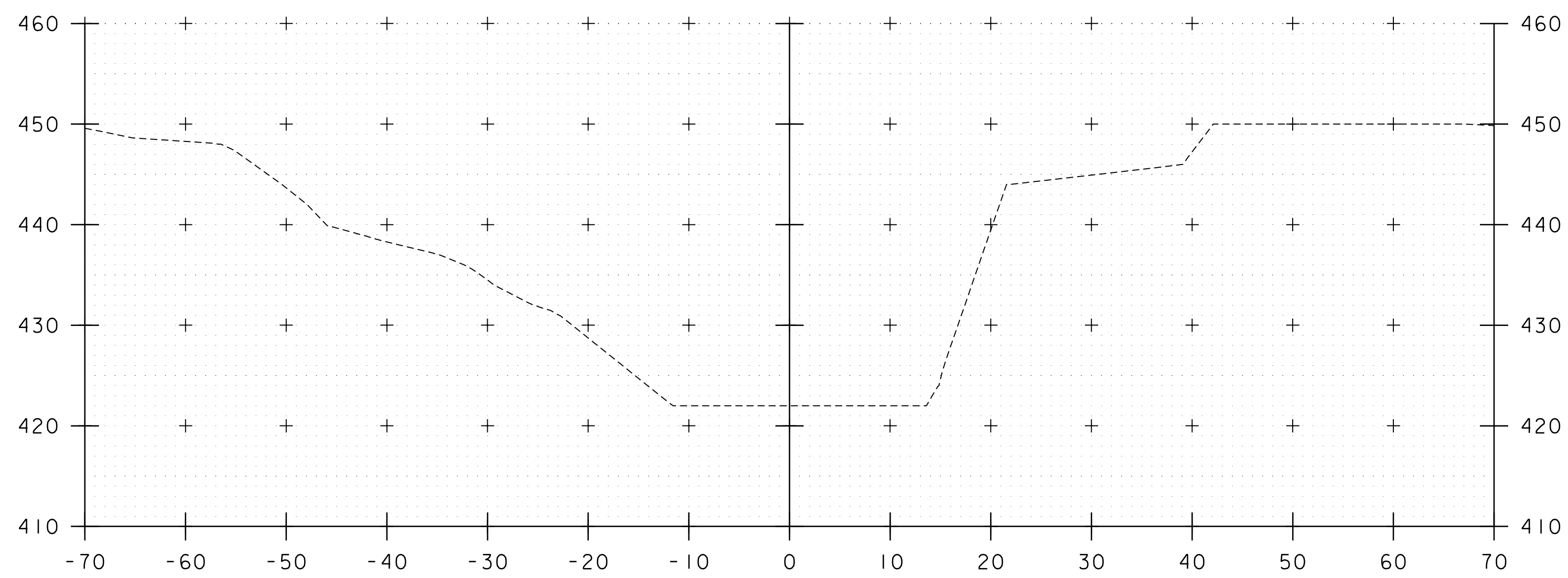
51+10

STA. 50+90 TO STA. 51+20

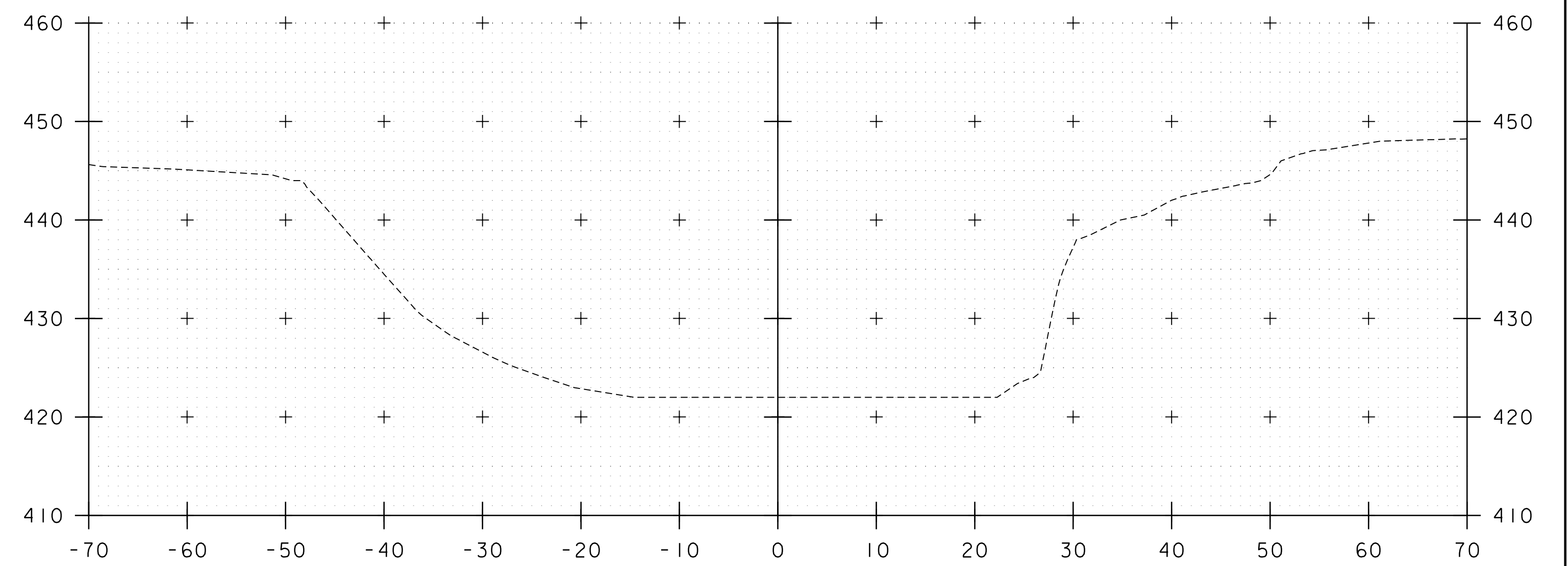
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PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	R. PELLETT
FILE NAME:	sl9b2l8xs.dgn	DESIGNED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS 2		SHEET	14 OF 15



51+40



51+30



51+50

STA. 51+30 TO STA. 51+50

PROJECT NAME:	FAIRFIELD	PLOT DATE:	07-DEC-2021
PROJECT NUMBER:	STP DECK(51)	DRAWN BY:	R. PELLETT
FILE NAME:	sl9b2l8xs.dgn	DESIGNED BY:	C. FRENCH
PROJECT LEADER:	R. YOUNG	CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS 3		SHEET	15 OF 15