

REVIEWER NOTES:

1. THERE WILL BE A 10 DAY CLOSURE PERIOD, WITH OFF SITE DETOUR.
2. PROJECT WILL BE CONSTRUCTED USING ABC METHODS. TWO SUPERSTRUCTURE ALTERNATIVES ARE PROPOSED, NEXT D BEAMS OR PBUS SUPPORTED ON PRECAST SEMI-INTEGRAL ABUTMENTS WITH STEEL H-PILES.
3. RIGHT-OF-WAY IS NOT ANTICIPATED FOR THIS PROJECT.
4. A DESIGN EXCEPTION WILL BE SUBMITTED FOR THE SUBSTANDARD SHOULDER WIDTH.
5. A PAVEMENT DESIGN HAS NOT YET BEEN COMPLETED.

# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

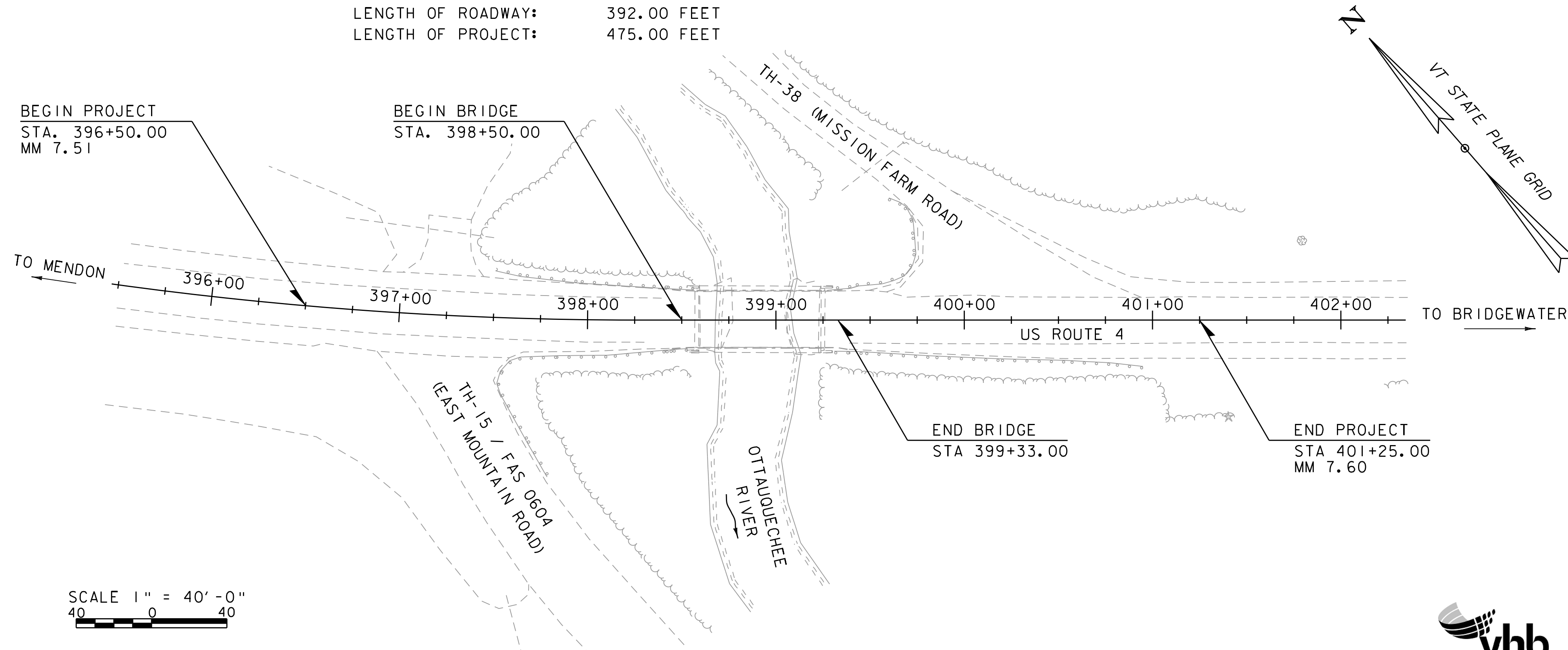
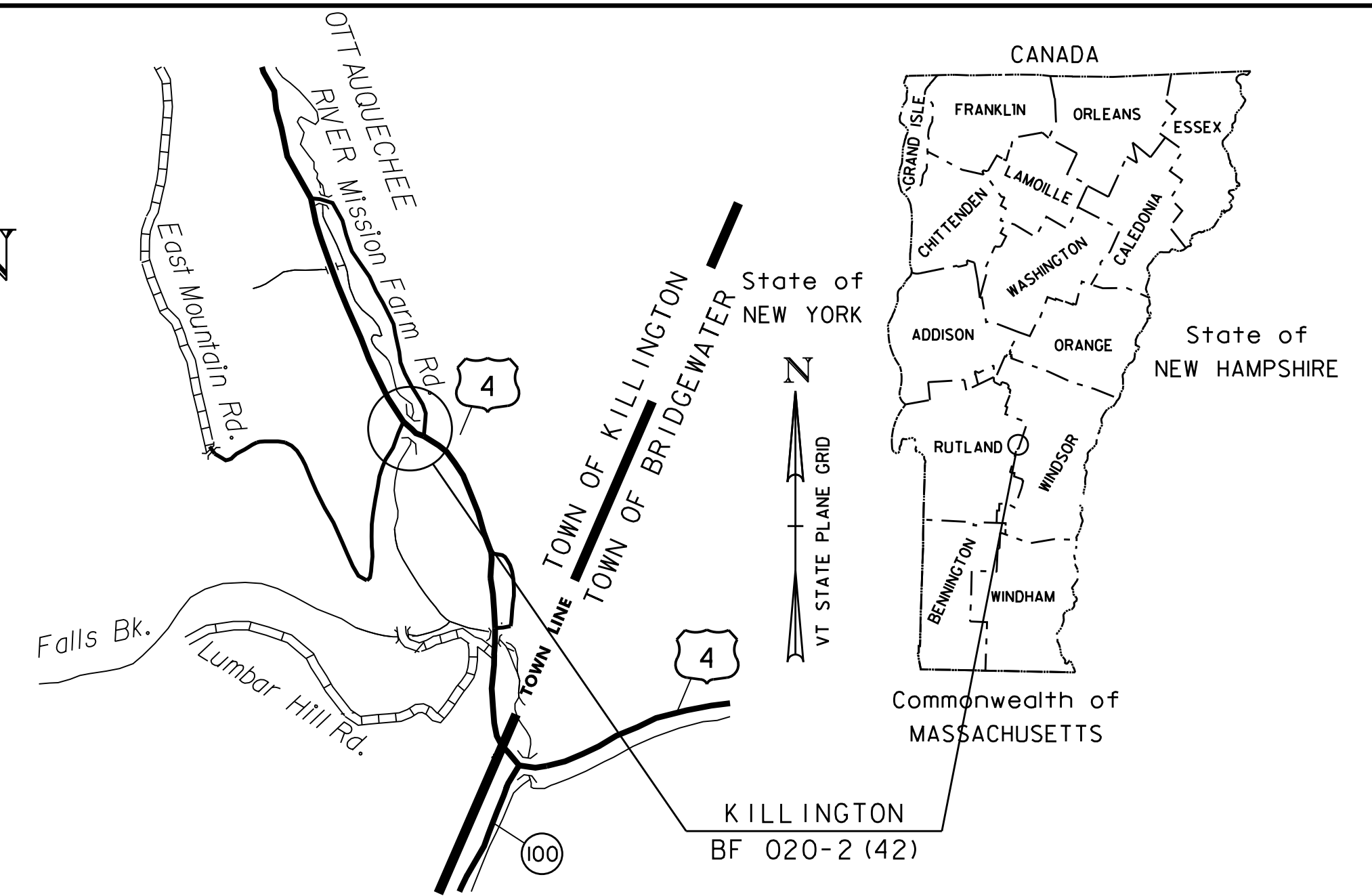
TOWN OF KILLINGTON  
COUNTY OF RUTLAND

US ROUTE 4 (RURAL PRINCIPAL ARTERIAL) , BRIDGE NO 33

**PROJECT LOCATION:** LOCATED IN THE COUNTY OF RUTLAND, IN THE TOWN OF KILLINGTON, ON US ROUTE 4; BRIDGE NO. 33 OVER THE OTTAUQUECHEE RIVER; APPROXIMATELY 1.0 MILE WEST OF THE INTERSECTION OF US ROUTE 4 AND VT ROUTE 100, IN THE TOWN OF BRIDGEWATER.

**PROJECT DESCRIPTION:** WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE REMOVAL AND REPLACEMENT OF BRIDGE NO. 33 ON THE EXISTING ALIGNMENT, WITH ASSOCIATED ROADWAY AND CHANNEL WORK.

**LENGTH OF STRUCTURE:** 83.00 FEET  
**LENGTH OF ROADWAY:** 392.00 FEET  
**LENGTH OF PROJECT:** 475.00 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 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 1	
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	12/2013
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (2011)

SCALE 1" = 40'-0"

**CONCEPTUAL  
PLANS  
JULY 2015**

DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : JENNIFER M. V. FITCH, PE	
PROJECT NAME :	KILLINGTON
PROJECT NUMBER :	BF 020-2 (42)
SHEET 1 OF 18 SHEETS	



INDEX OF SHEETS

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	CONVENTIONAL SYMBOLOLOGY LEGEND SHEET
4	TYPICAL SECTIONS SHEET
5 - 6	LAYOUT SHEETS
7	PROFILE SHEET
8 - 14	US ROUTE 4 CROSS SECTIONS
15 - 16	CHANNEL CROSS SECTIONS
17 - 18	RESOURCE SITE PLAN SHEETS

STANDARDS LIST

STRUCTURES DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	2/9/2012
SD-502.00	CONCRETE DETAILS AND NOTES	10/10/2012
SD-516.10	BRIDGE JOINT ASPHALTIC PLUG	8/29/2011
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	6/4/2010
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	5/2/2011

FINAL HYDRAULIC REPORT

*(This area contains multiple horizontal lines for text entry, representing the final hydraulic report content.)*

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	$d_p$ : 0.0 INCH
3. DESIGN SPAN	$L$ : 77.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	$\Delta$ : ---
5. PRESTRESSING STRAND	$f_y$ : ---
6. PRESTRESSED CONCRETE STRENGTH	$f'_c$ : ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	$f'_{cr}$ : ---
8. CONCRETE, HIGH PERFORMANCE CLASS AA	$f'_c$ : ---
9. CONCRETE, HIGH PERFORMANCE CLASS A	$f'_c$ : ---
10. CONCRETE, HIGH PERFORMANCE CLASS B	$f'_c$ : ---
11. CONCRETE, CLASS C	$f'_c$ : ---
12. REINFORCING STEEL	$f_y$ : 60 KSI
13. STRUCTURAL STEEL AASHTO M270	$f_y$ : 50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	$q_n$ : ---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	$\phi$ : ---
16. NOMINAL BEARING RESISTANCE OF ROCK	$q_n$ : ---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	$\phi$ : ---
18. PILE RESISTANCE FACTOR	$\phi$ : ---
19. LATERAL PILE DEFLECTION	$\Delta$ : ---
20. BASIC WIND SPEED	$V_{3s}$ : ---
21. MINIMUM GROUND SNOWLOAD	$p_g$ : ---
22. SEISMIC DATA	PGA: 0 $S_s$ : --- $S_f$ : ---
23.	---
24.	---
25.	---
26.	---

LRFR LOAD RATING FACTORS

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

AS BUILT "REBAR" DETAIL

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

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2017 to 2037 : 0	40 year ESAL for flexible pavement from 2017 to 2057 : 0	Design Speed : 50 mph
2017	5600	780	58	10.6	670			
2037	5900	820	58	15.4	1000			

PROJECT NAME: **KILLINGTON**  
PROJECT NUMBER: **BF 020-2(42)**

FILE NAME: **z13b260frm.dgn** PLOT DATE: 7/30/2015  
PROJECT LEADER: **S.E. BURBANK** DRAWN BY: **R.H. BARNES**  
DESIGNED BY: **R.H. BARNES** CHECKED BY: **E.F. LAWES**  
PRELIMINARY INFORMATION SHEET 1 SHEET 2 OF 18

**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
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
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
□	BNDNS BOUND TO BE SET
●	IPNS IRON PIN SET
⊙	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 VALUE
⊕	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 RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

**UTILITY SYMBOLGY**

**UNDERGROUND UTILITIES**

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

**ABOVE GROUND UTILITIES (AERIAL)**

— T —	UTILITY (GENERIC-UNKNOWN)
— E —	TELEPHONE
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEP.
—	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	
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

**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
(H)	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

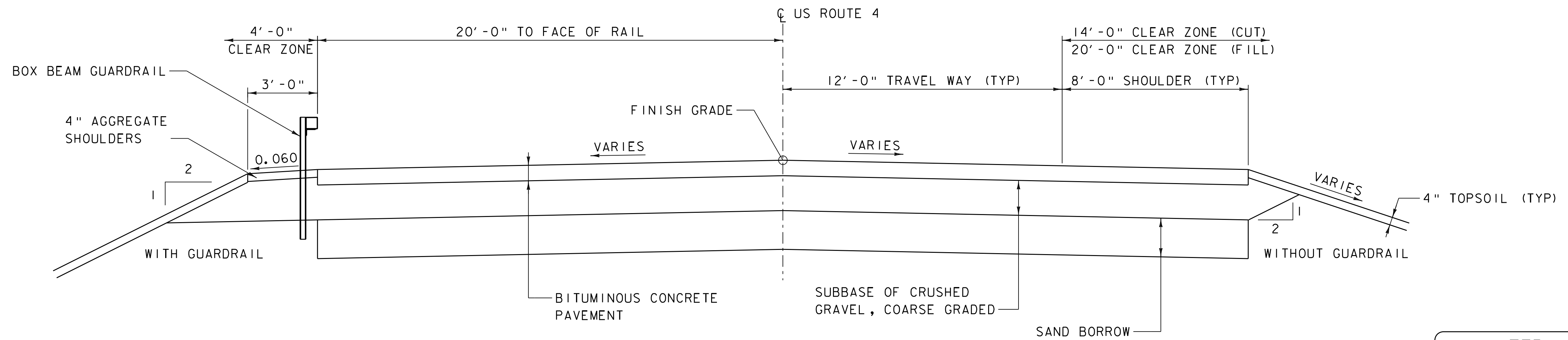
—	ROAD EDGE PAVEMENT
—	ROAD EDGE GRAVEL
—	DRIVEWAY EDGE
—	DITCH
—	FOUNDATION
—	FENCE (EXISTING)
—	FENCE WOOD POST
—	FENCE STEEL POST
—	GARDEN
—	ROAD GUARDRAIL
—	RAILROAD TRACKS
—	CULVERT (EXISTING)
—	STONE WALL
—	WALL
—	WOOD LINE
—	BRUSH LINE
—	HEDGE
—	BODY OF WATER EDGE
—	LEDGE EXPOSED

PROJECT NAME: KILLINGTON  
PROJECT NUMBER: BF 020-2(42)

FILE NAME: z13b260leg.dgn  
PROJECT LEADER: S.E. BURBANK  
DESIGNED BY: VTRANS  
CONVENTIONAL SYMBOLGY LEGEND SHEET

PLOT DATE: 7/30/2015  
DRAWN BY: R.H. BARNES  
CHECKED BY: E.F. LAWES  
SHEET 3 OF 18



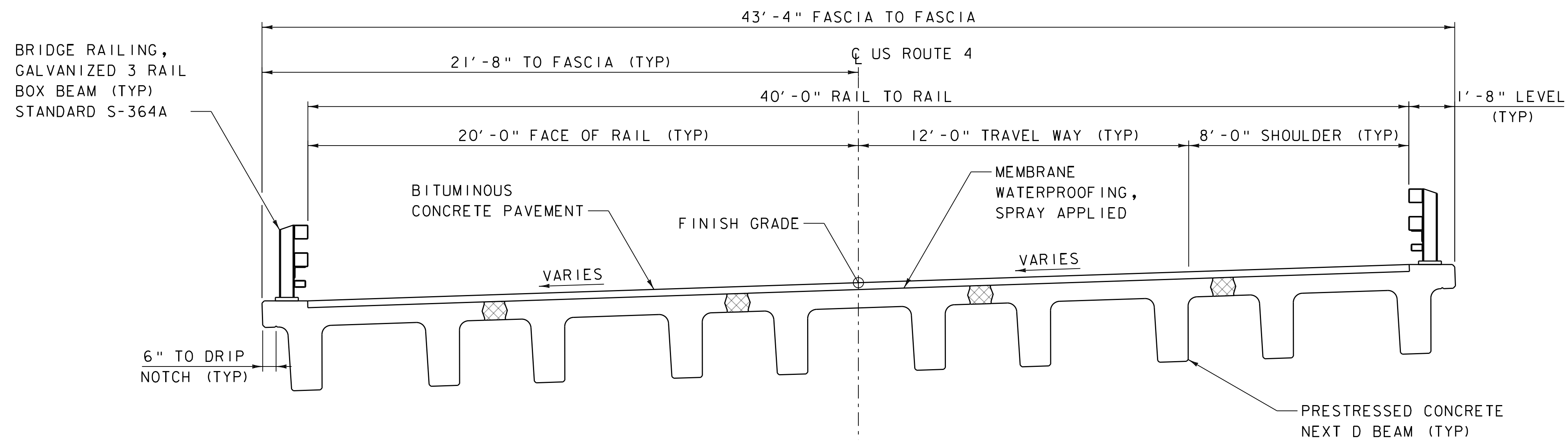


**US 4 TYPICAL ROADWAY SECTION**

SCALE  $\frac{3}{8}$ " = 1'-0"

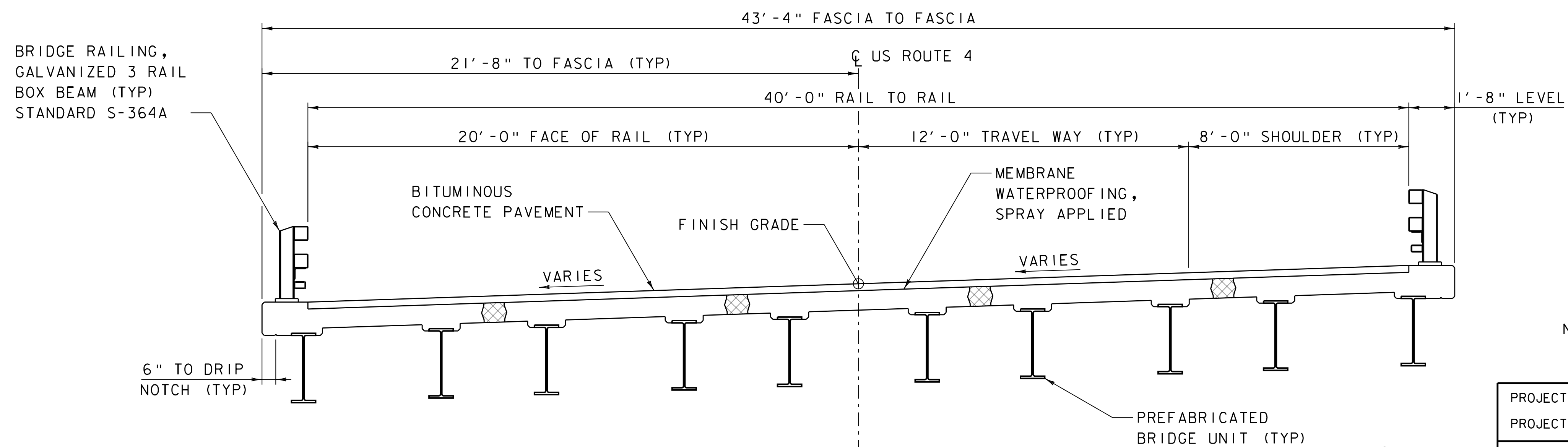
**MATERIAL TOLERANCES**  
(IF USED ON PROJECT)

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



**TYPICAL NEXT BEAM BRIDGE SECTION ALTERNATIVE**

SCALE  $\frac{3}{8}$ " = 1'-0"



**TYPICAL PBU BRIDGE SECTION ALTERNATIVE**

SCALE  $\frac{3}{8}$ " = 1'-0"

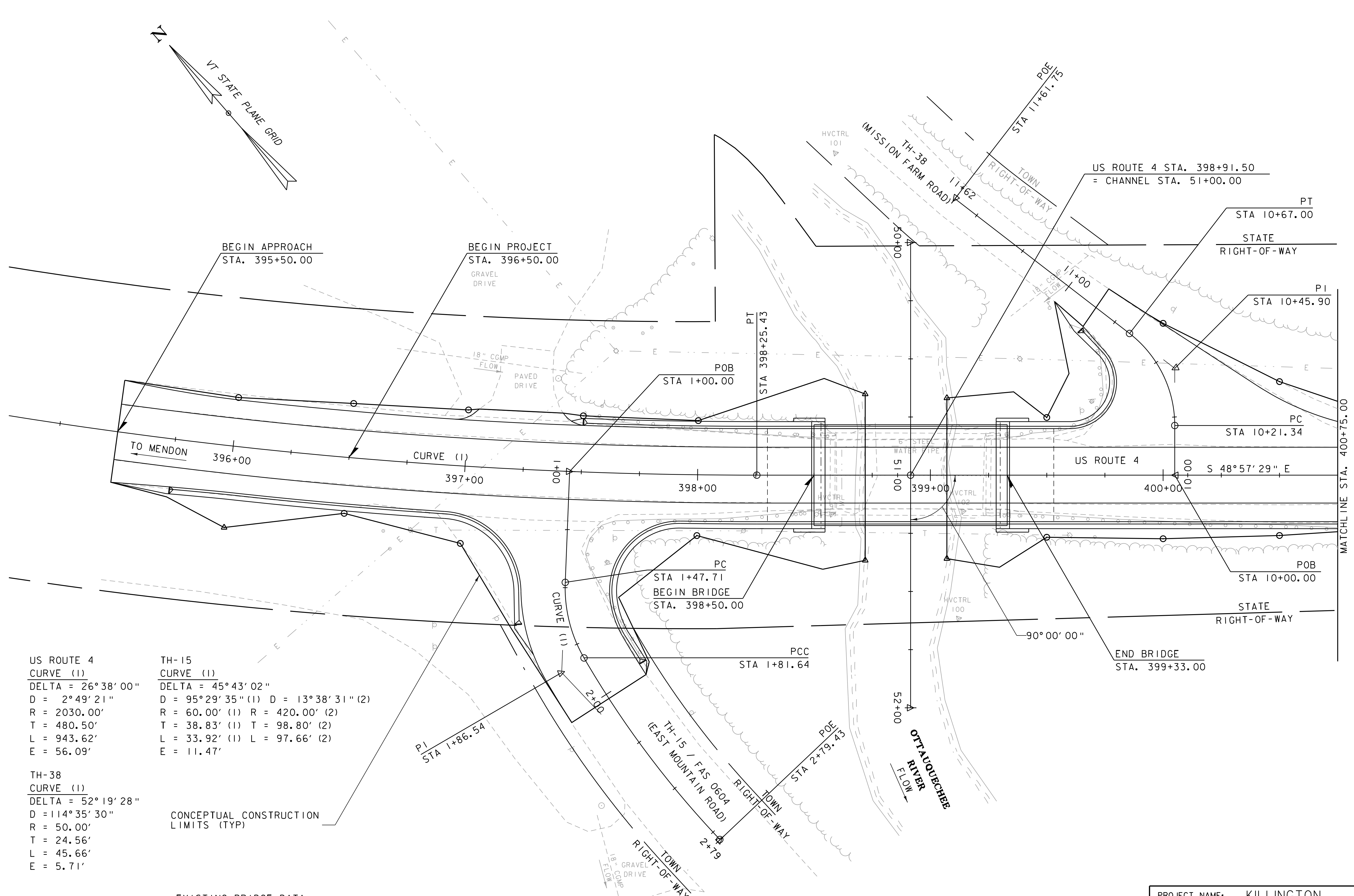
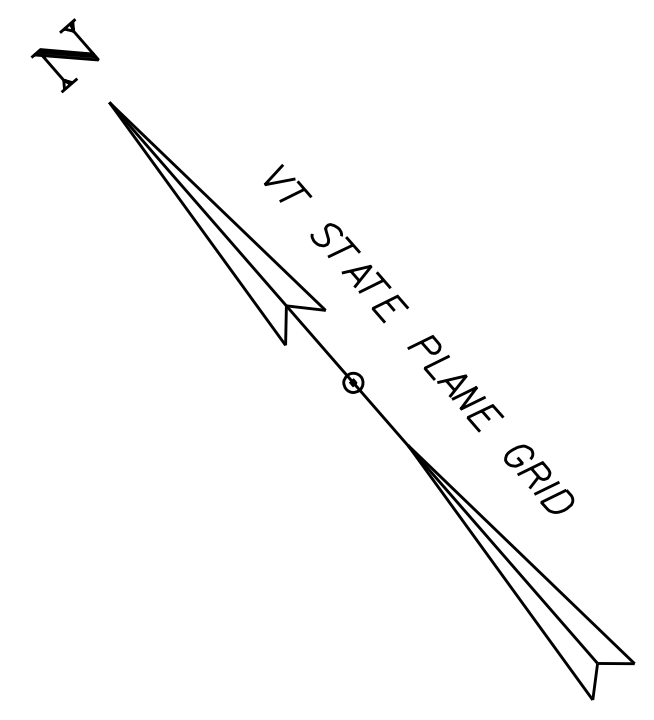
NOTE: SUPERSTRUCTURES NOT YET DESIGNED

PROJECT NAME: KILLINGTON  
PROJECT NUMBER: BF 020-2(42)

FILE NAME: z13b260typ.dgn  
PROJECT LEADER: S.E. BURBANK  
DESIGNED BY: R.H. BARNES  
TYPICAL SECTIONS SHEET

PLOT DATE: 7/30/2015  
DRAWN BY: R.H. BARNES  
CHECKED BY: E.F. LAWES  
SHEET 4 OF 18





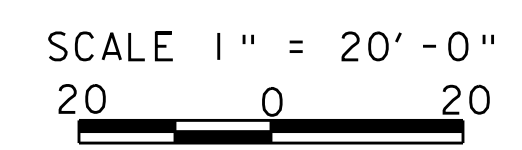
US ROUTE 4  
 CURVE (1)  
 DELTA = 26°38'00"  
 D = 2°49'21"  
 R = 2030.00'  
 T = 480.50'  
 L = 943.62'  
 E = 56.09'

TH-15  
 CURVE (1)  
 DELTA = 45°43'02"  
 D = 95°29'35" (1) D = 13°38'31" (2)  
 R = 60.00' (1) R = 420.00' (2)  
 T = 38.83' (1) T = 98.80' (2)  
 L = 33.92' (1) L = 97.66' (2)  
 E = 11.47'

TH-38  
 CURVE (1)  
 DELTA = 52°19'28"  
 D = 114°35'30"  
 R = 50.00'  
 T = 24.56'  
 L = 45.66'  
 E = 5.71'

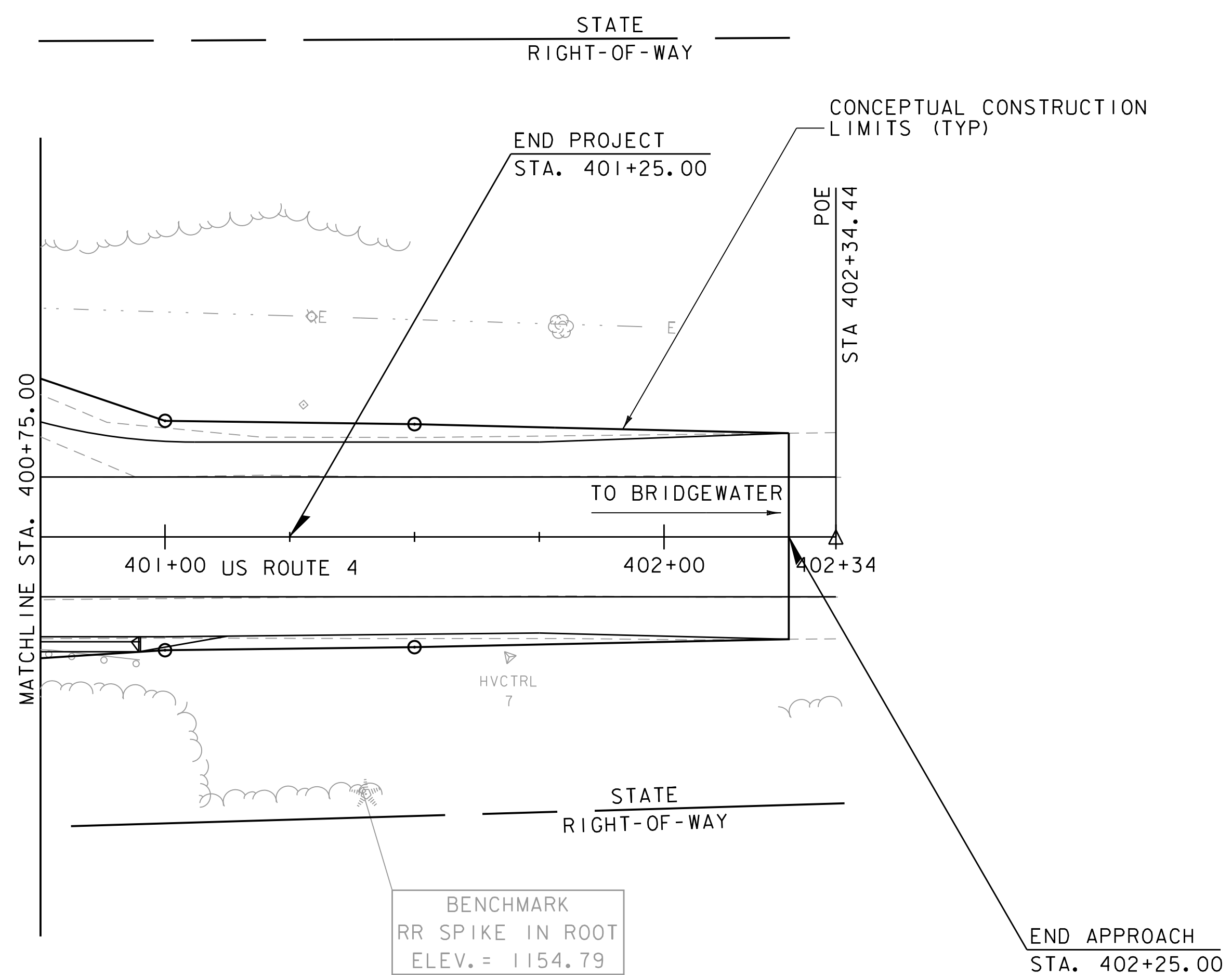
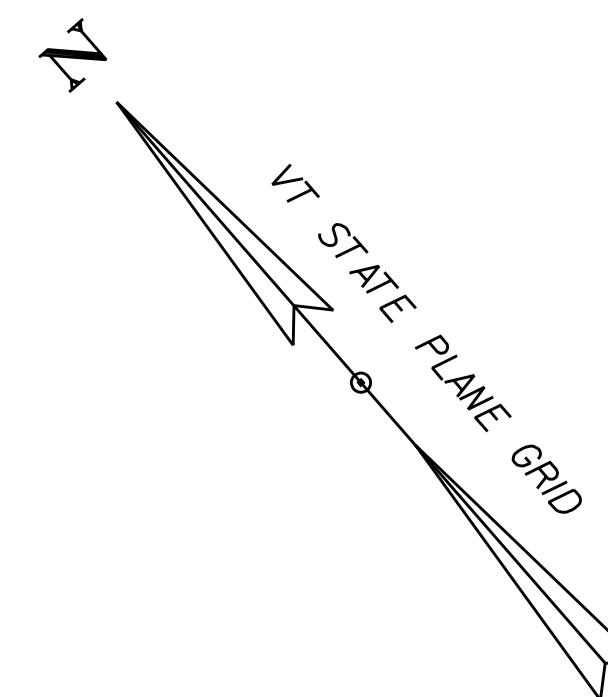
CONCEPTUAL CONSTRUCTION  
 LIMITS (TYP)

EXISTING BRIDGE DATA  
 SINGLE SPAN CAST-IN-PLACE  
 CONCRETE DECK ON ROLLED BEAMS  
 STRUCTURE LENGTH = 67'  
 DECK WIDTH OUT TO OUT = 35.4'  
 BRIDGE WIDTH CURB TO CURB = 29.8'



PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260bdr_nul.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	5 OF 18
DESIGNED BY:	R.H. BARNES		
LAYOUT SHEET (1 OF 2)			





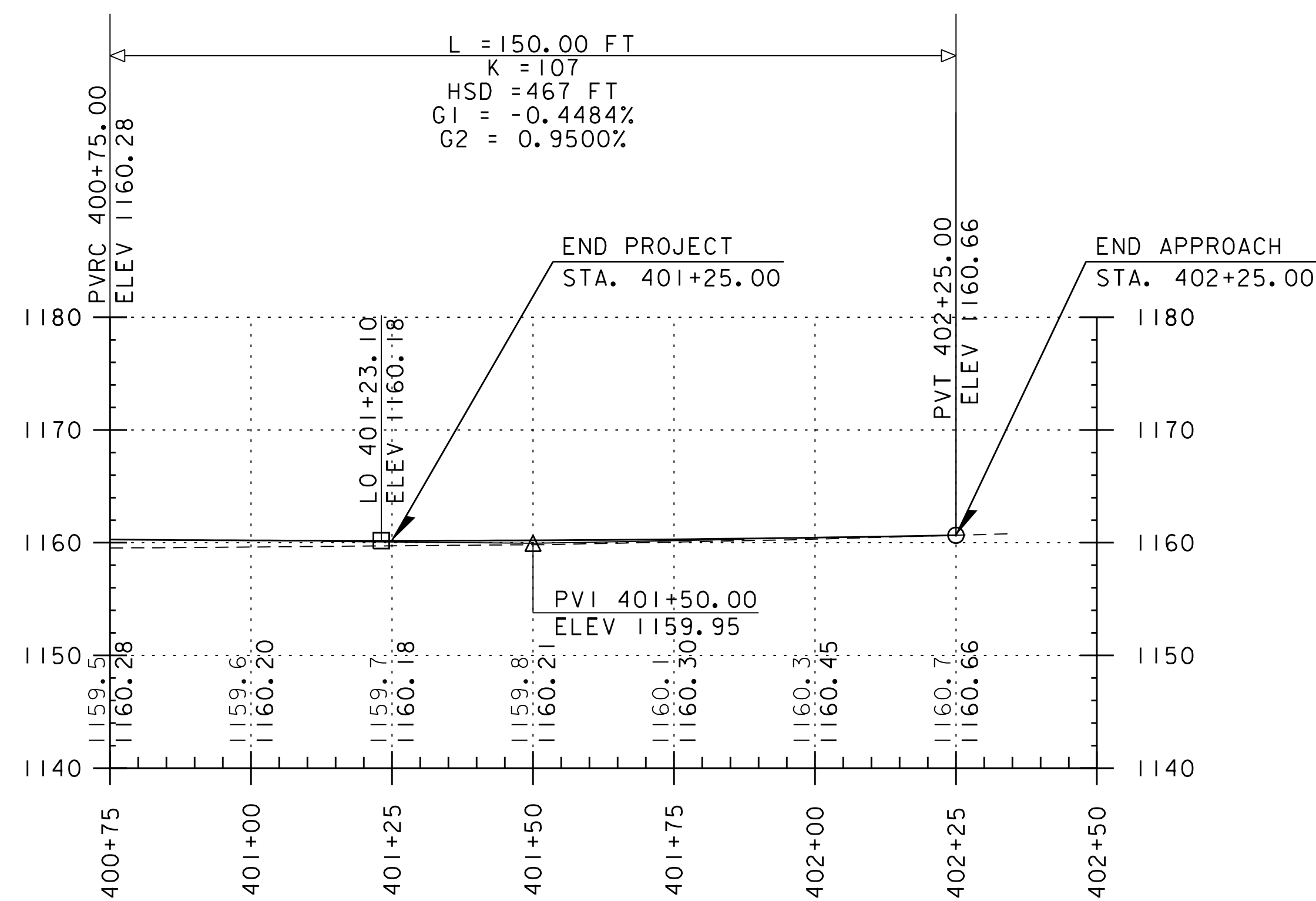
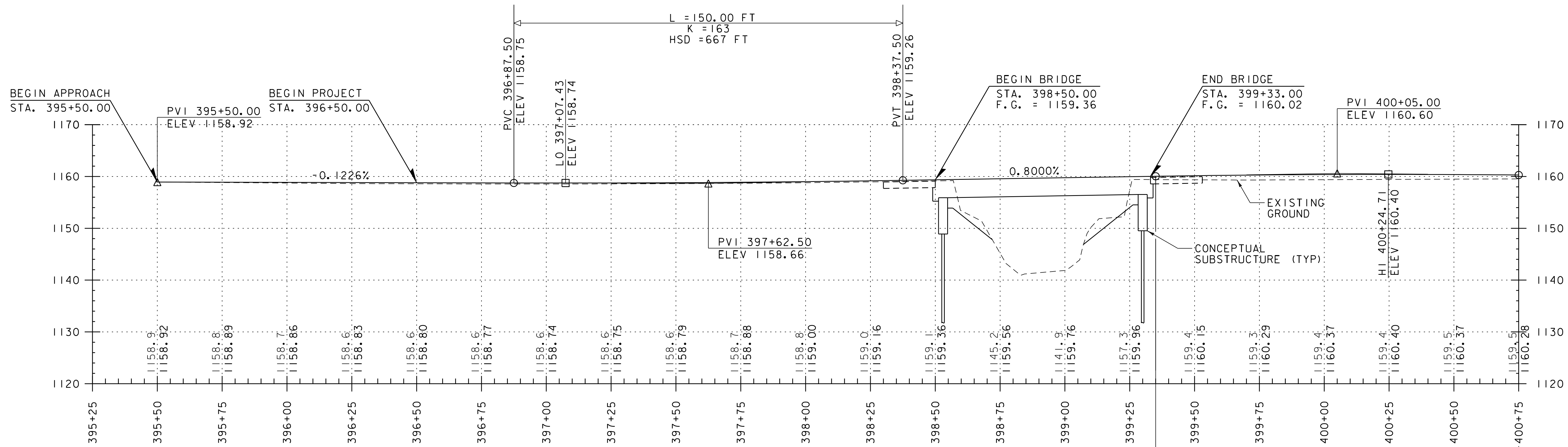
SCALE 1" = 20'-0"  
 20 0 20



PROJECT NAME: KILLINGTON  
 PROJECT NUMBER: BF 020-2(42)

FILE NAME: z13b260bdr\_nul.dgn  
 PROJECT LEADER: S.E. BURBANK  
 DESIGNED BY: R.H. BARNES  
 LAYOUT SHEET (2 OF 2)

PLOT DATE: 7/30/2015  
 DRAWN BY: R.H. BARNES  
 CHECKED BY: E.F. LAWES  
 SHEET 6 OF 18



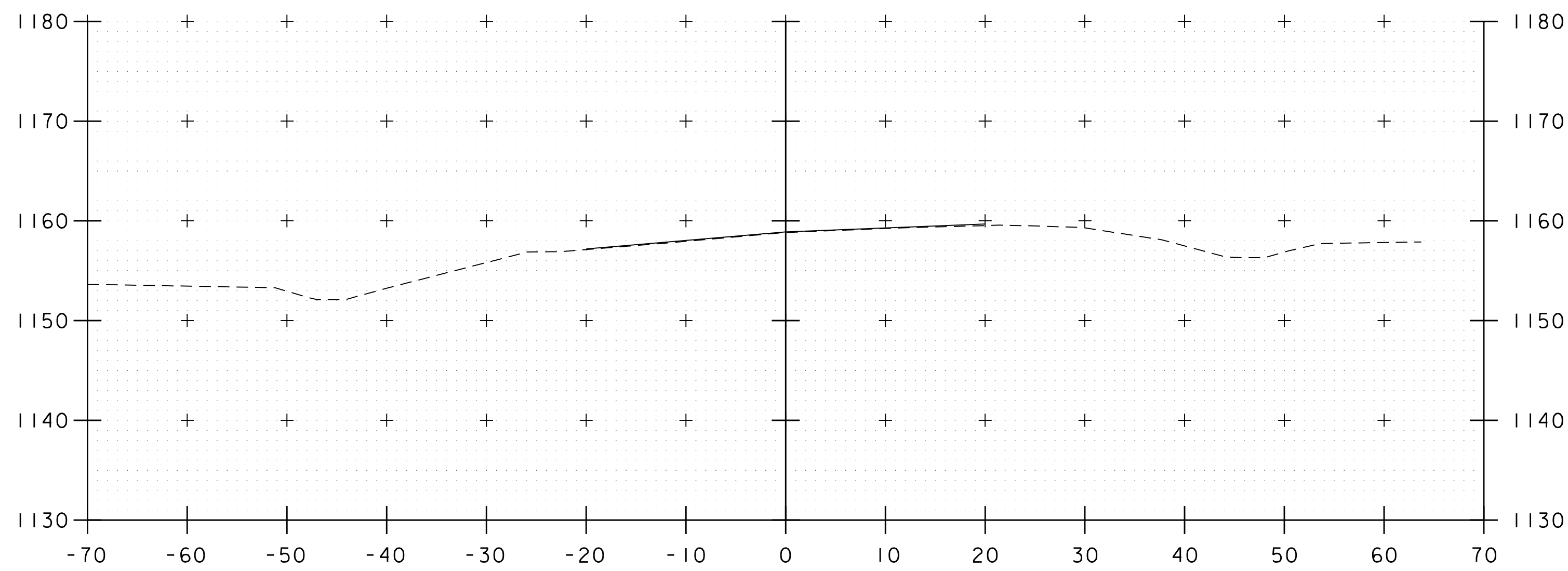
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT.

THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

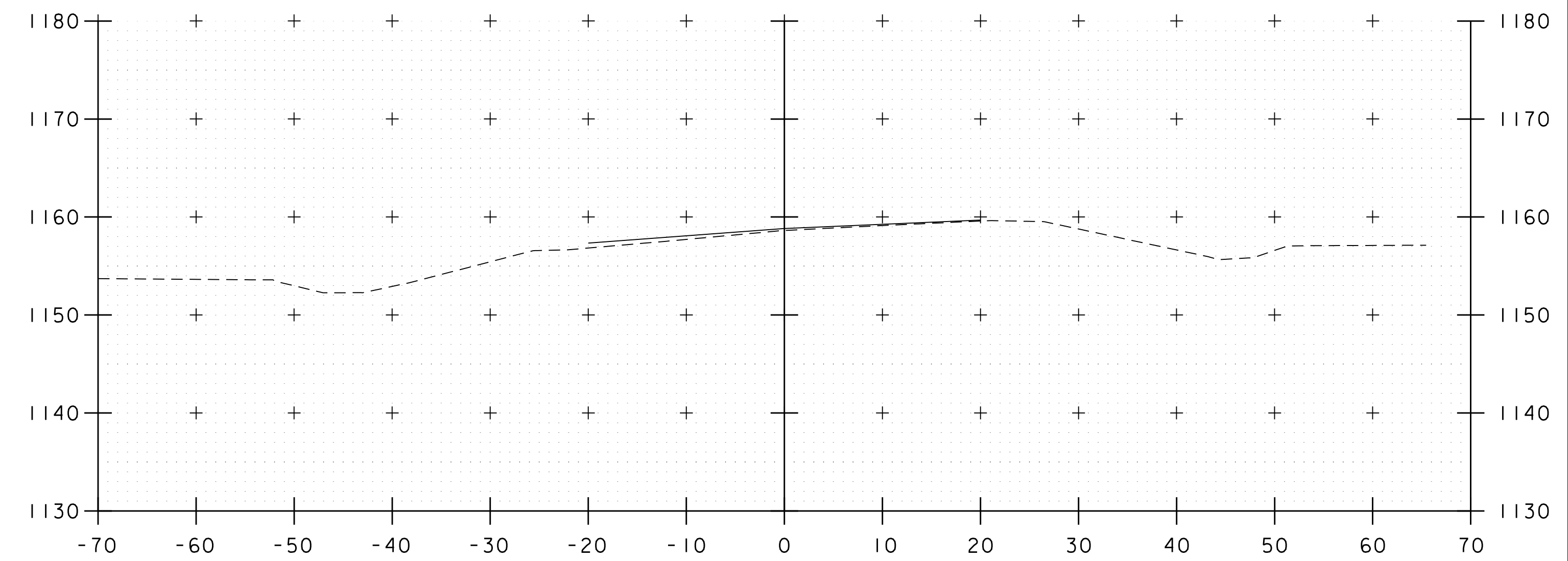
**US ROUTE 4 PROFILE**  
 SCALE 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

PROJECT NAME:	KILLINGTON	FILE NAME:	z13b260pro.dgn	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	PROJECT LEADER:	S.E. BURBANK	DRAWN BY:	R.H. BARNES
		DESIGNED BY:	R.H. BARNES	CHECKED BY:	E.F. LAWES
		PROFILE SHEET		SHEET	7 OF 18

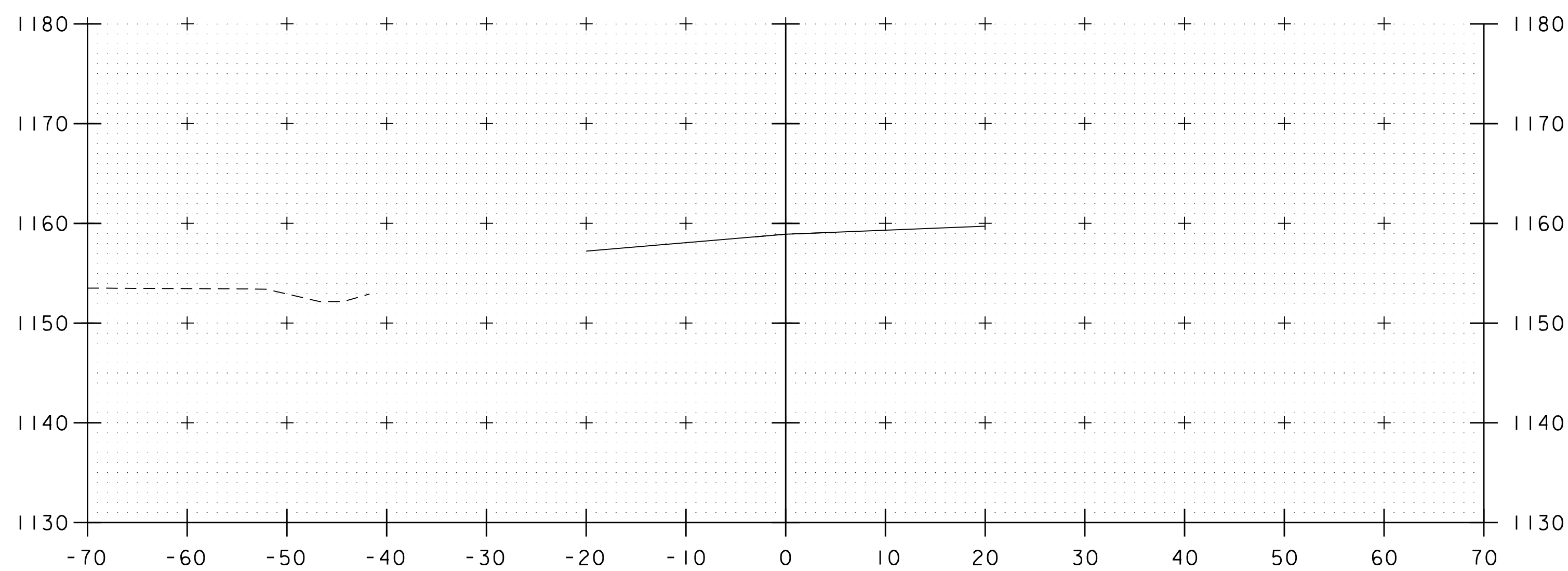




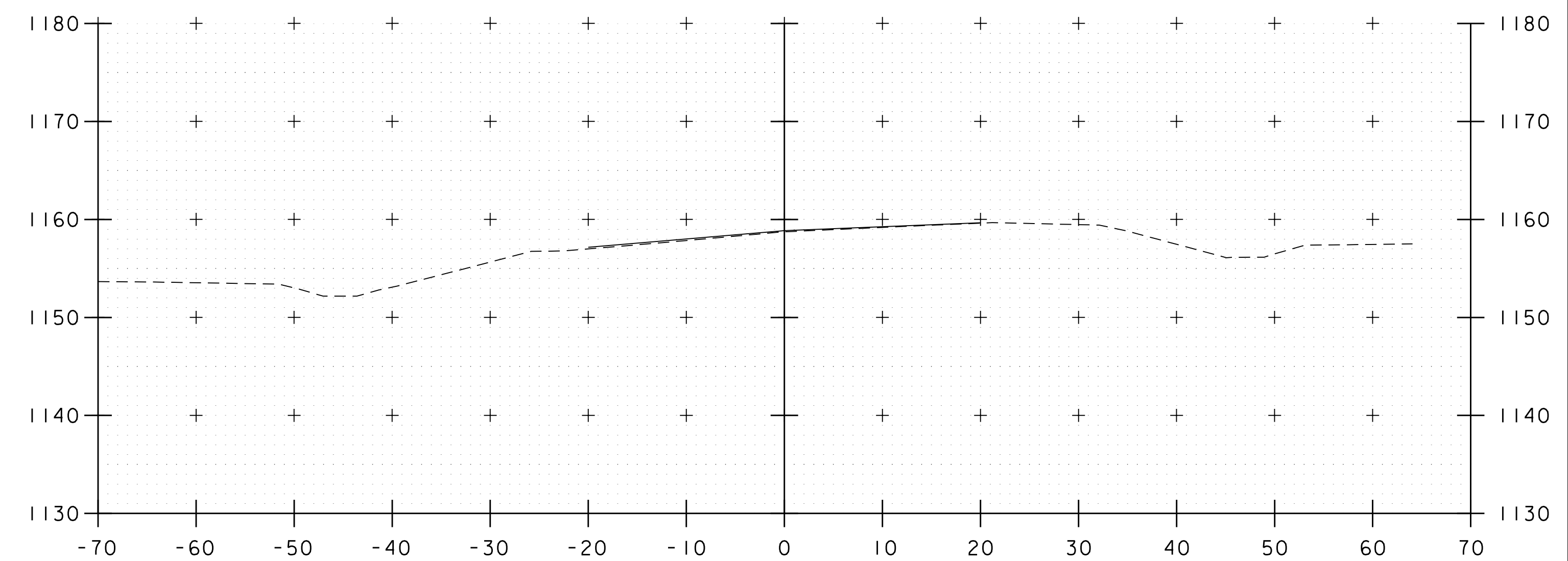
395+75



396+25



395+50



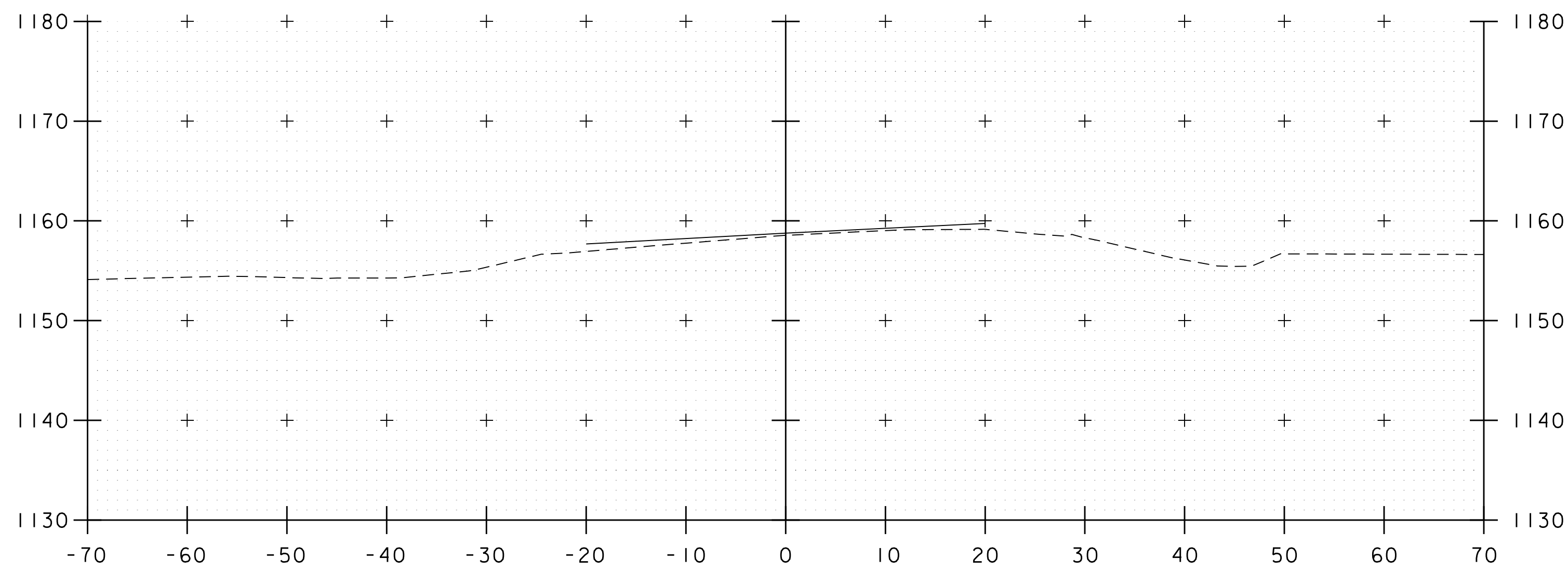
396+00

STA. 395+50 TO STA. 396+25

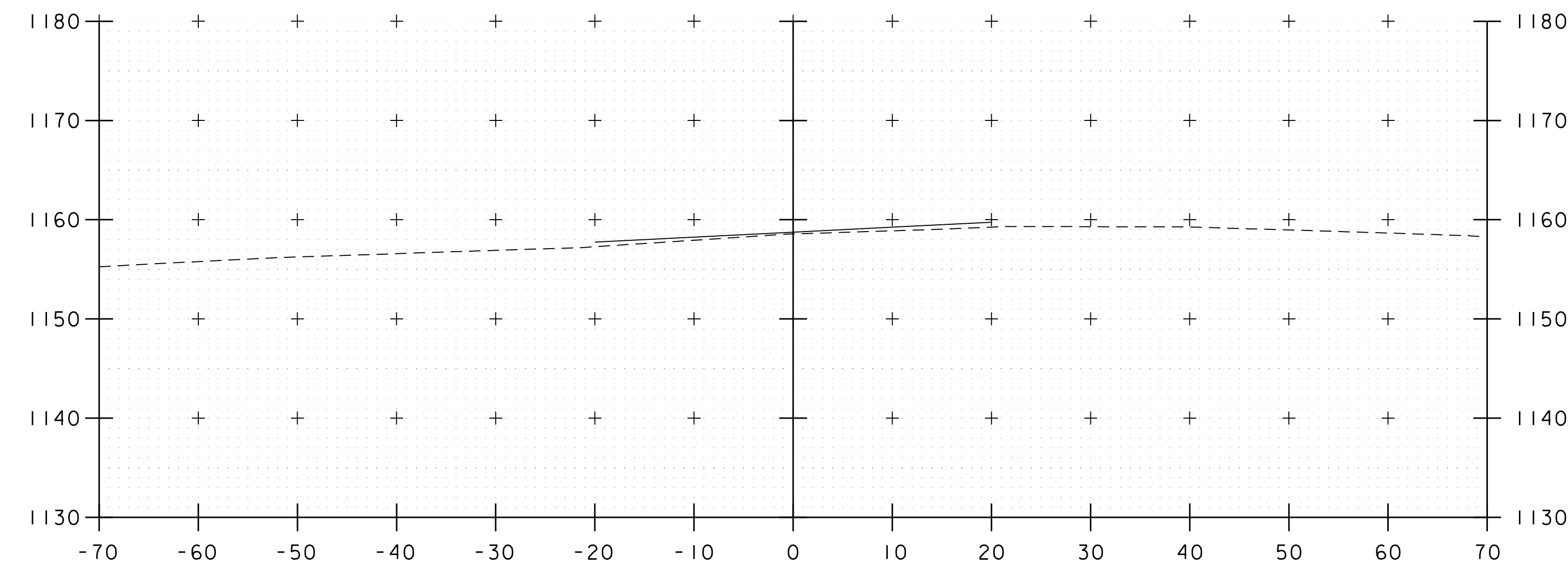


PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260xs.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	8 OF 18
DESIGNED BY:	R.H. BARNES	US ROUTE 4 CROSS SECTIONS	

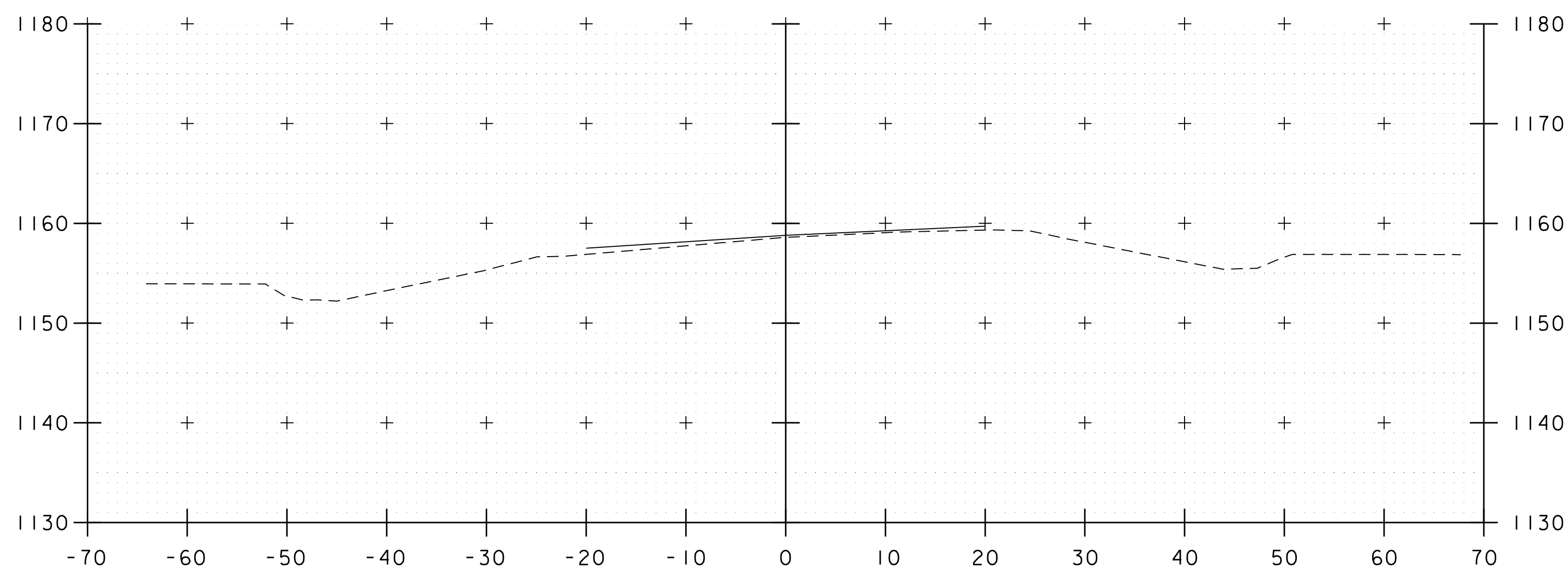




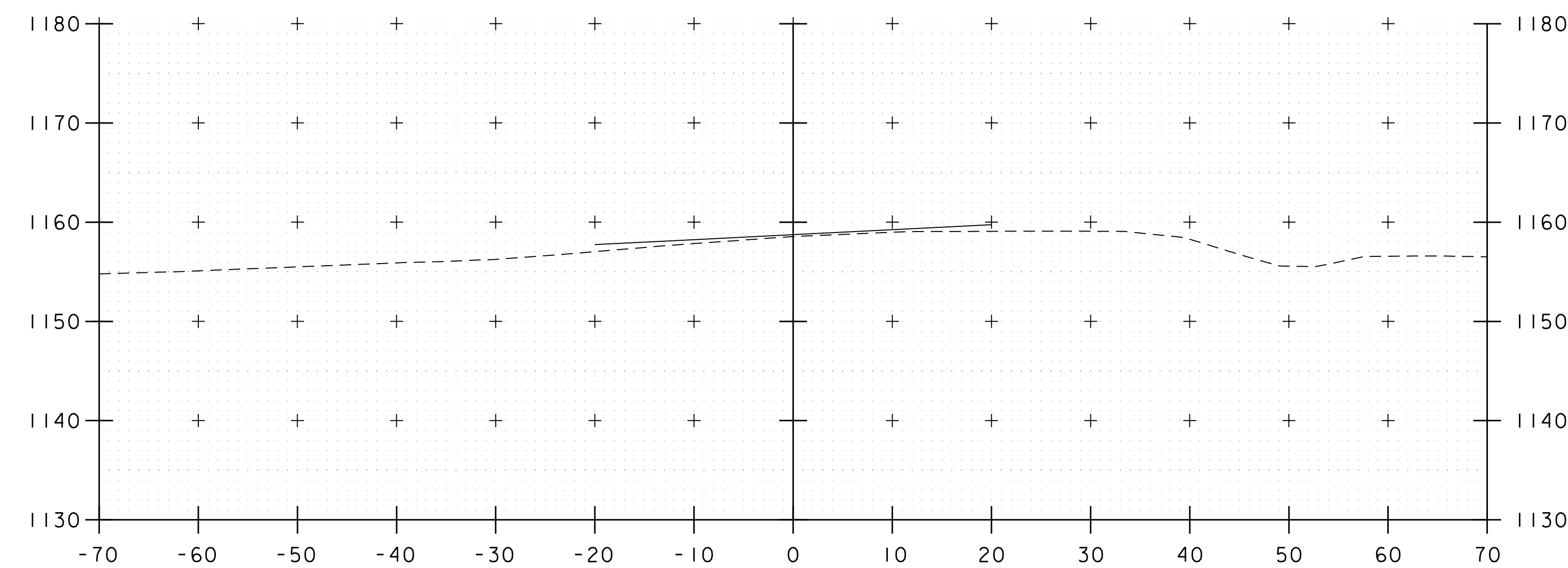
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397+25



396+50

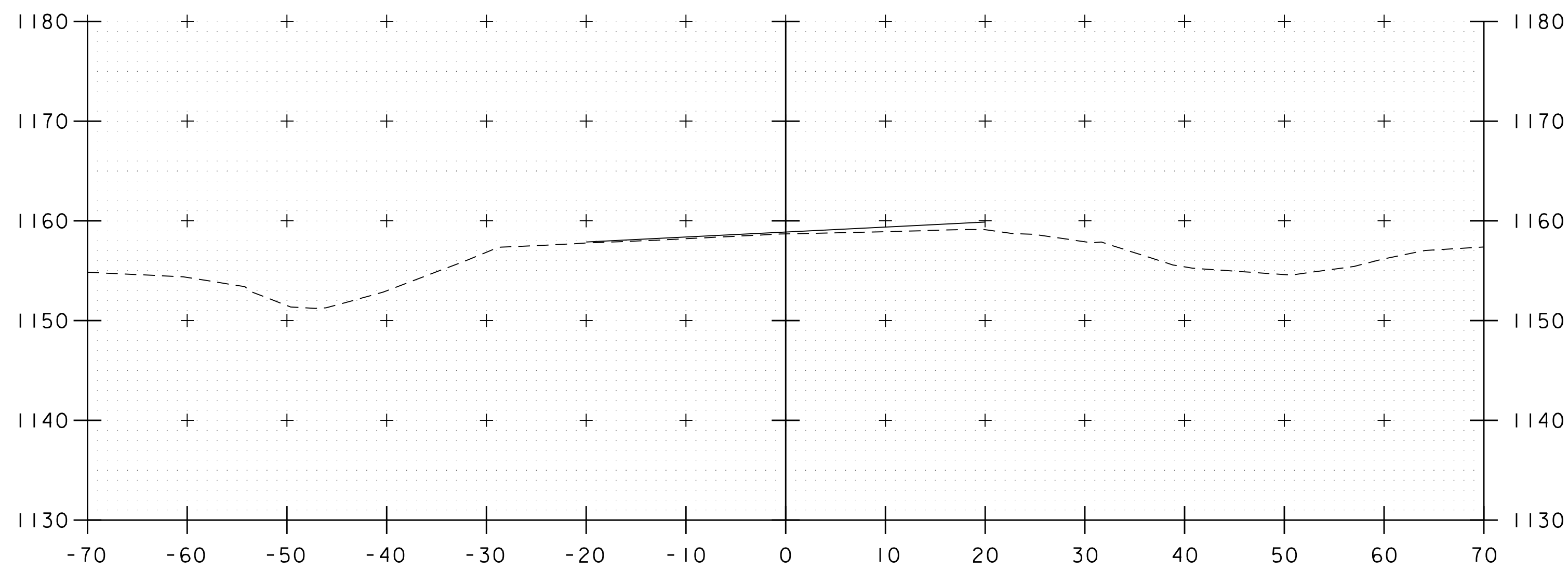


397+00

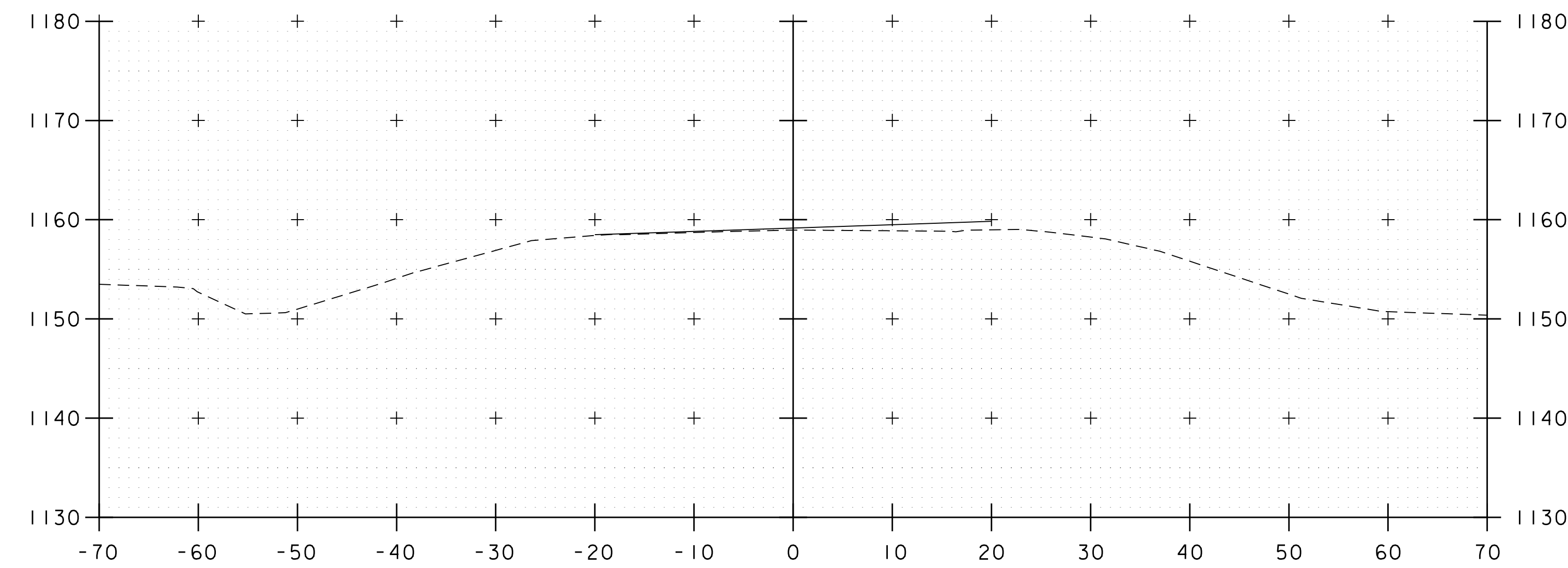
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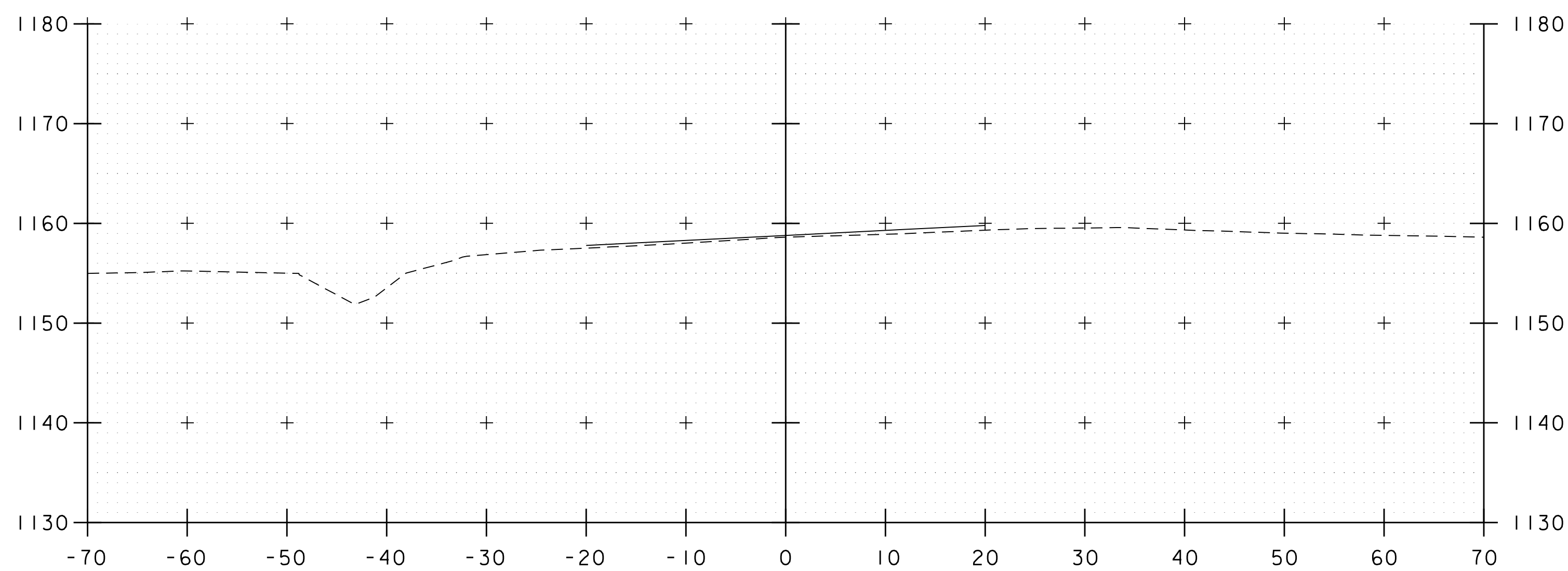
PROJECT NAME: KILLINGTON	
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DESIGNED BY: R.H. BARNES	CHECKED BY: E.F. LAWES
US ROUTE 4 CROSS SECTIONS	SHEET 9 OF 18



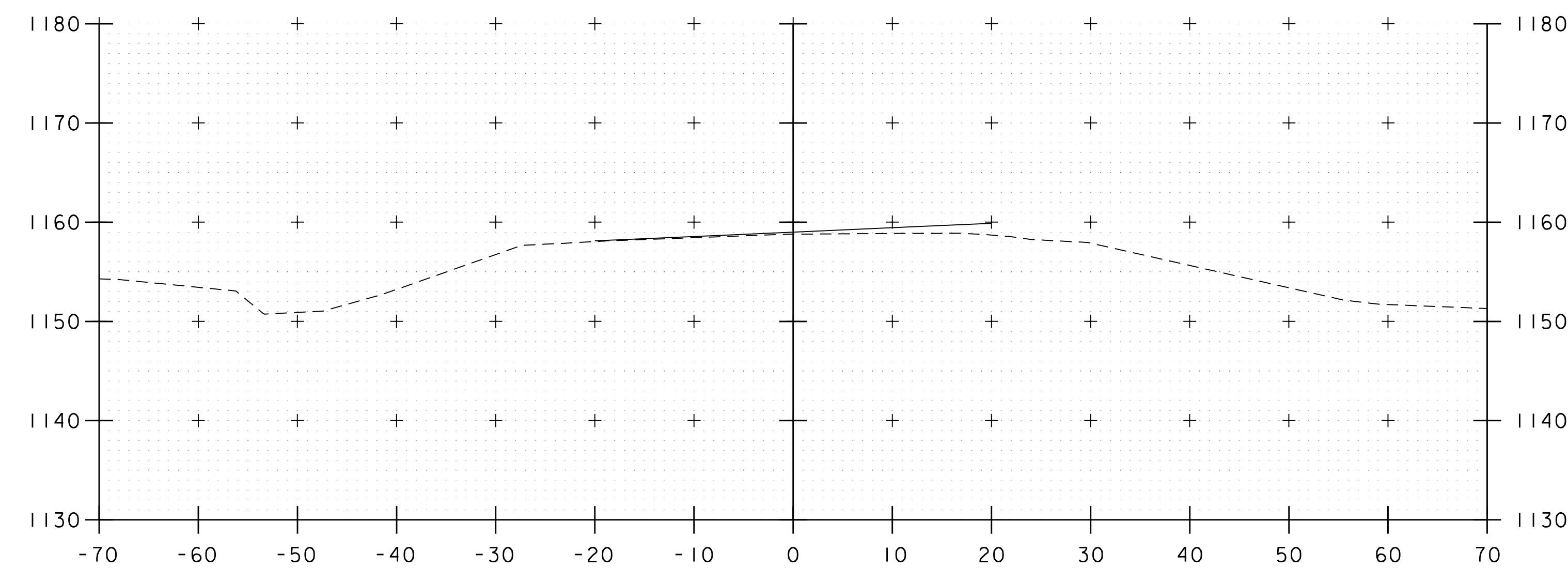
397+75



398+25



397+50

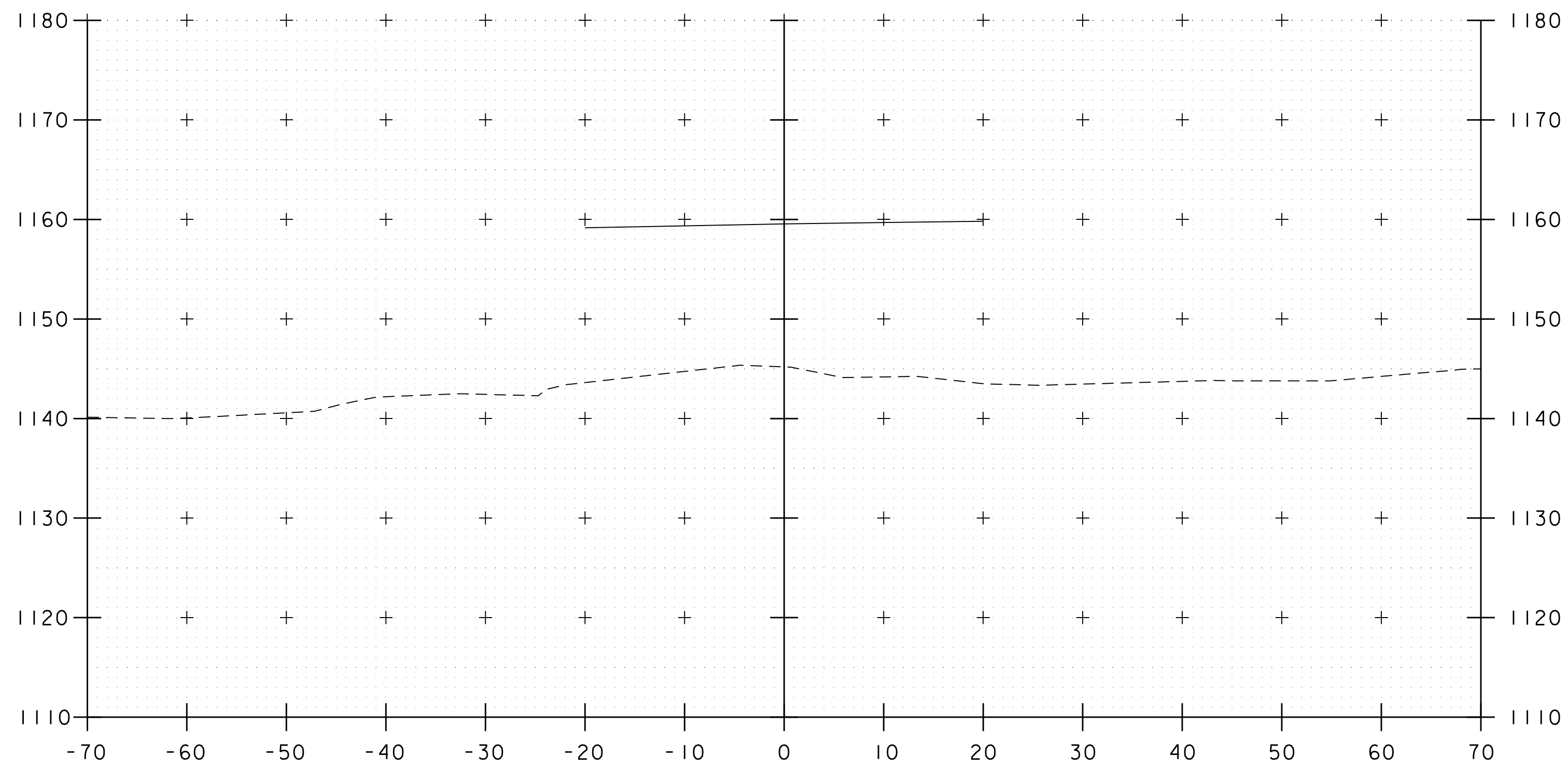


398+00

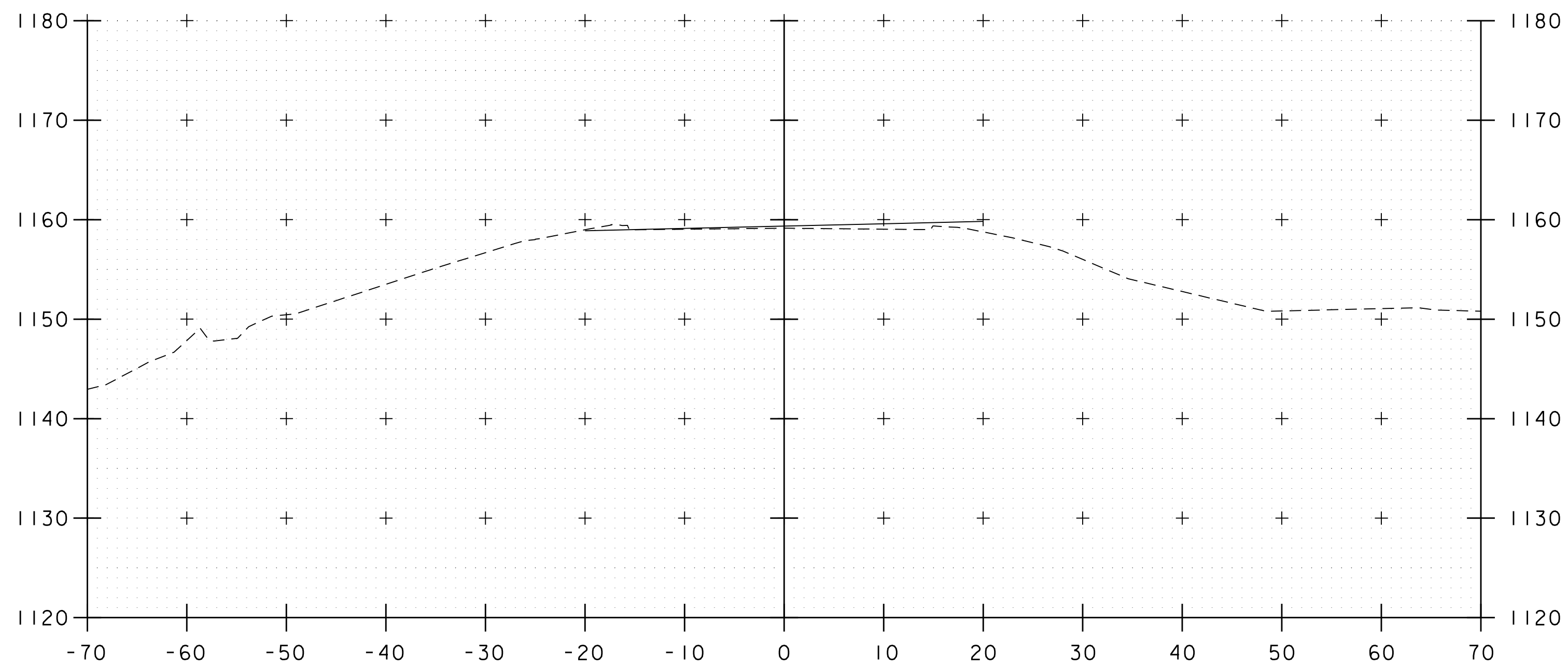
STA. 397+50 TO STA. 398+25



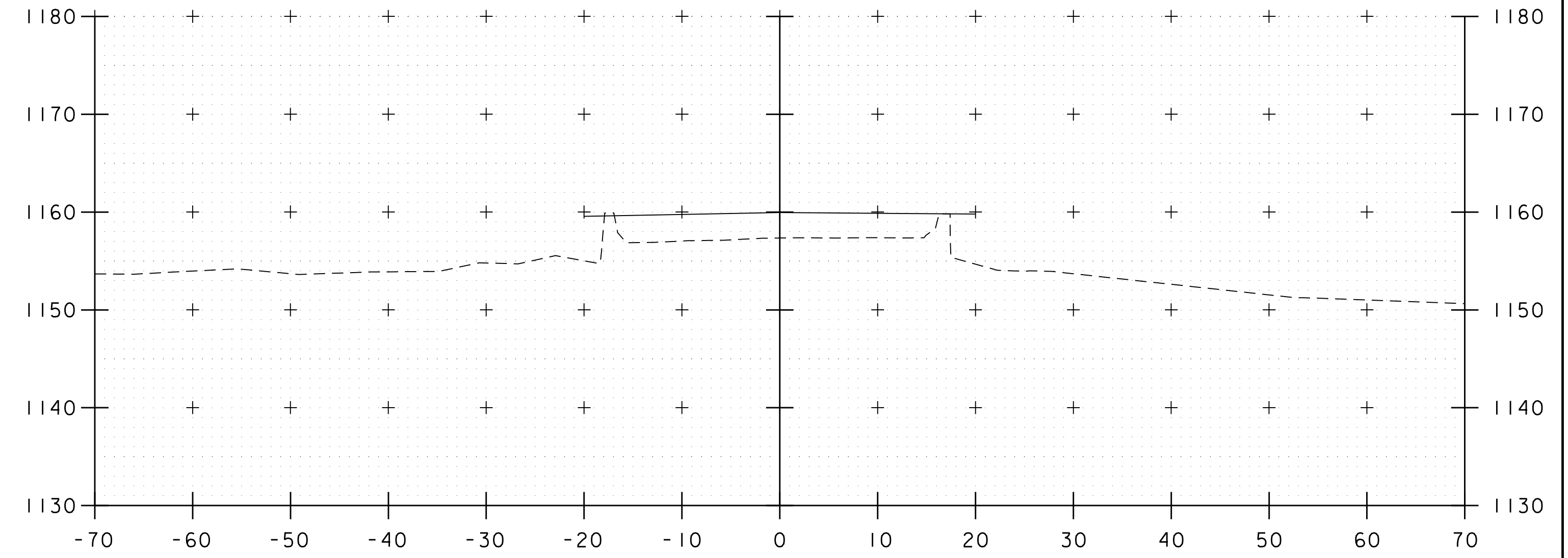
PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260xs.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	10 OF 18
DESIGNED BY:	R.H. BARNES	US ROUTE 4 CROSS SECTIONS	



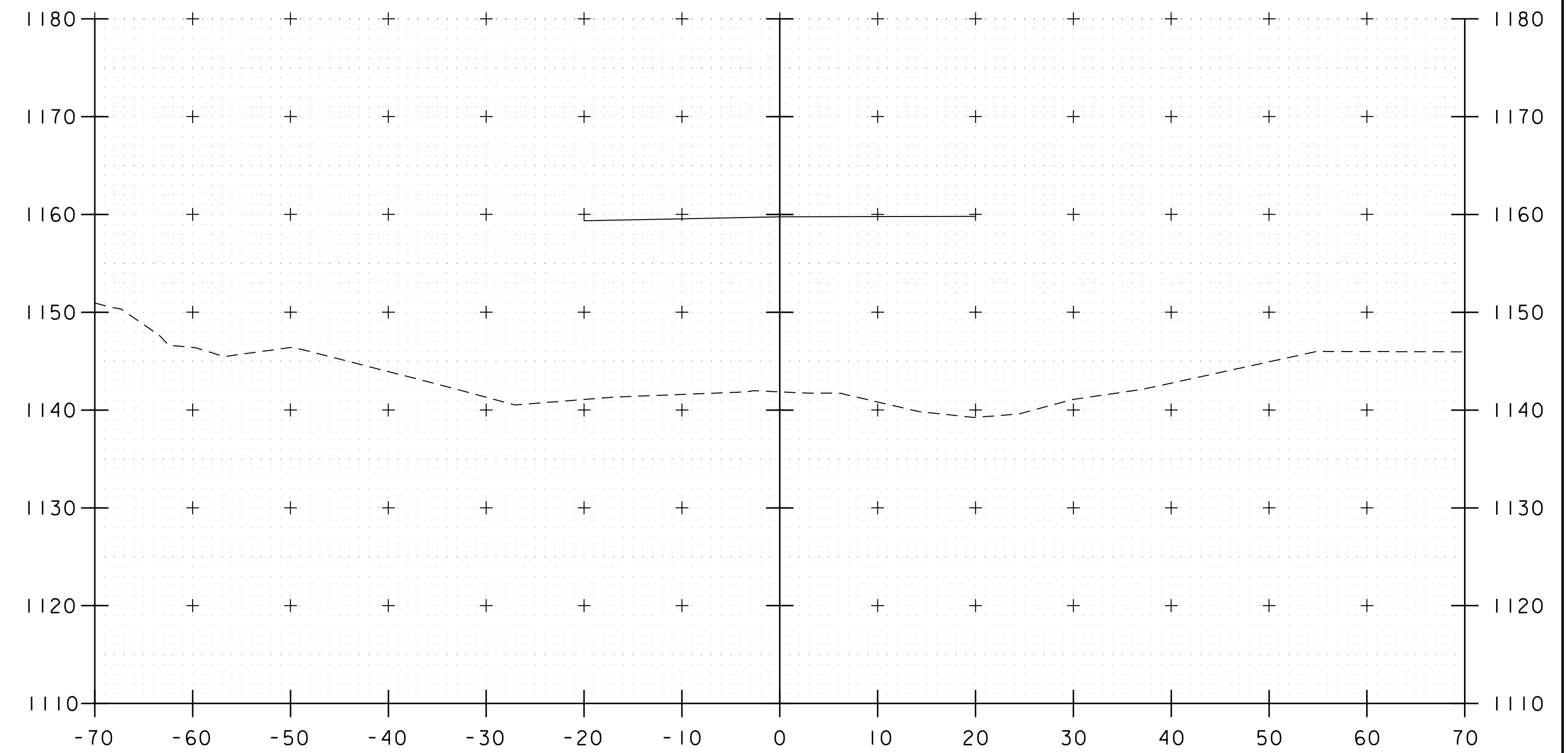
398+75



398+50



399+25

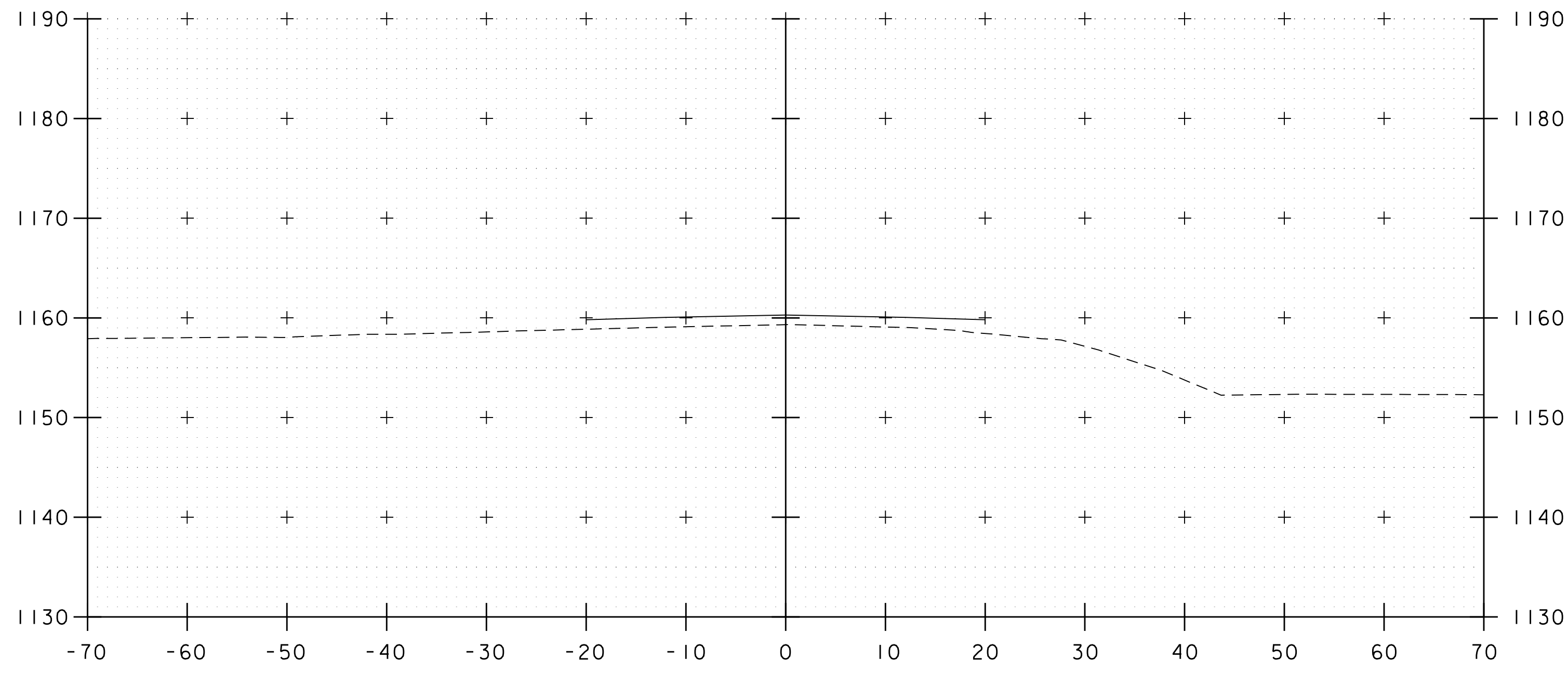


399+00

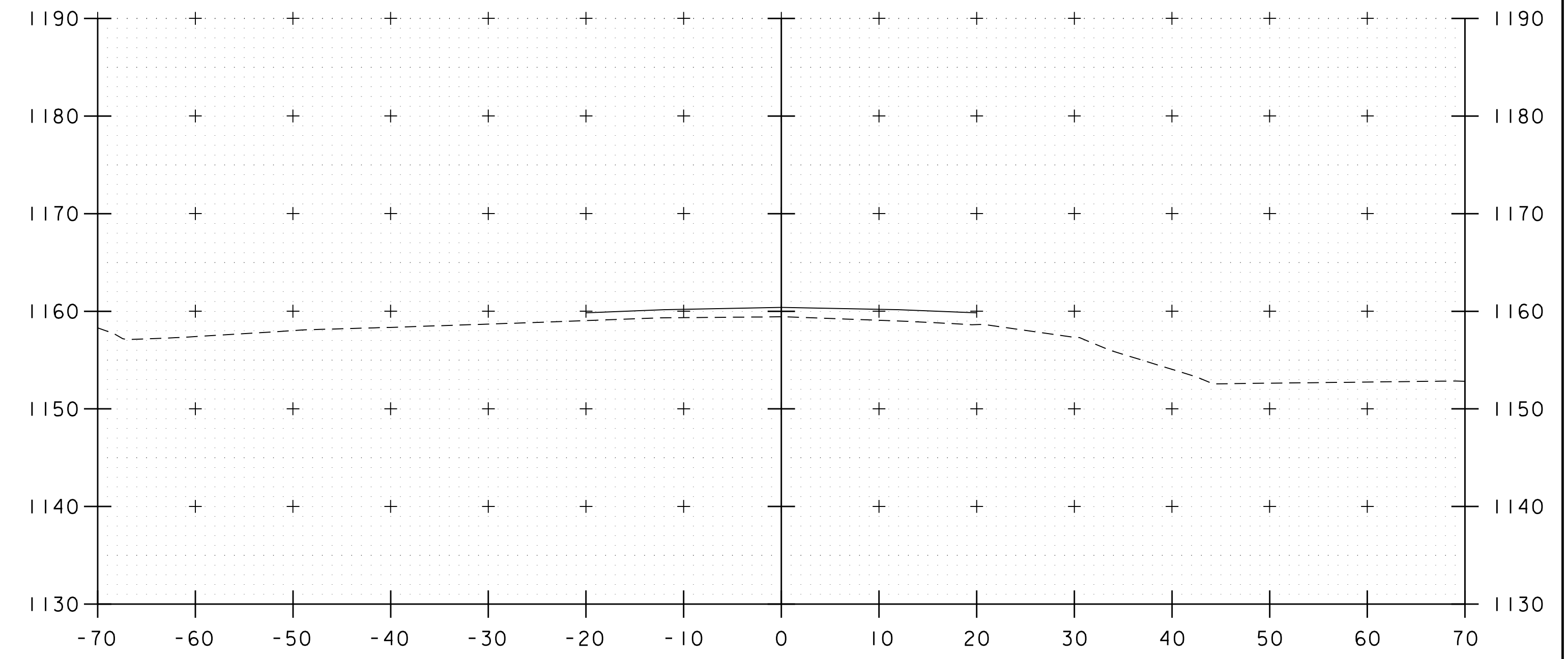
STA. 398+50 TO STA. 399+25



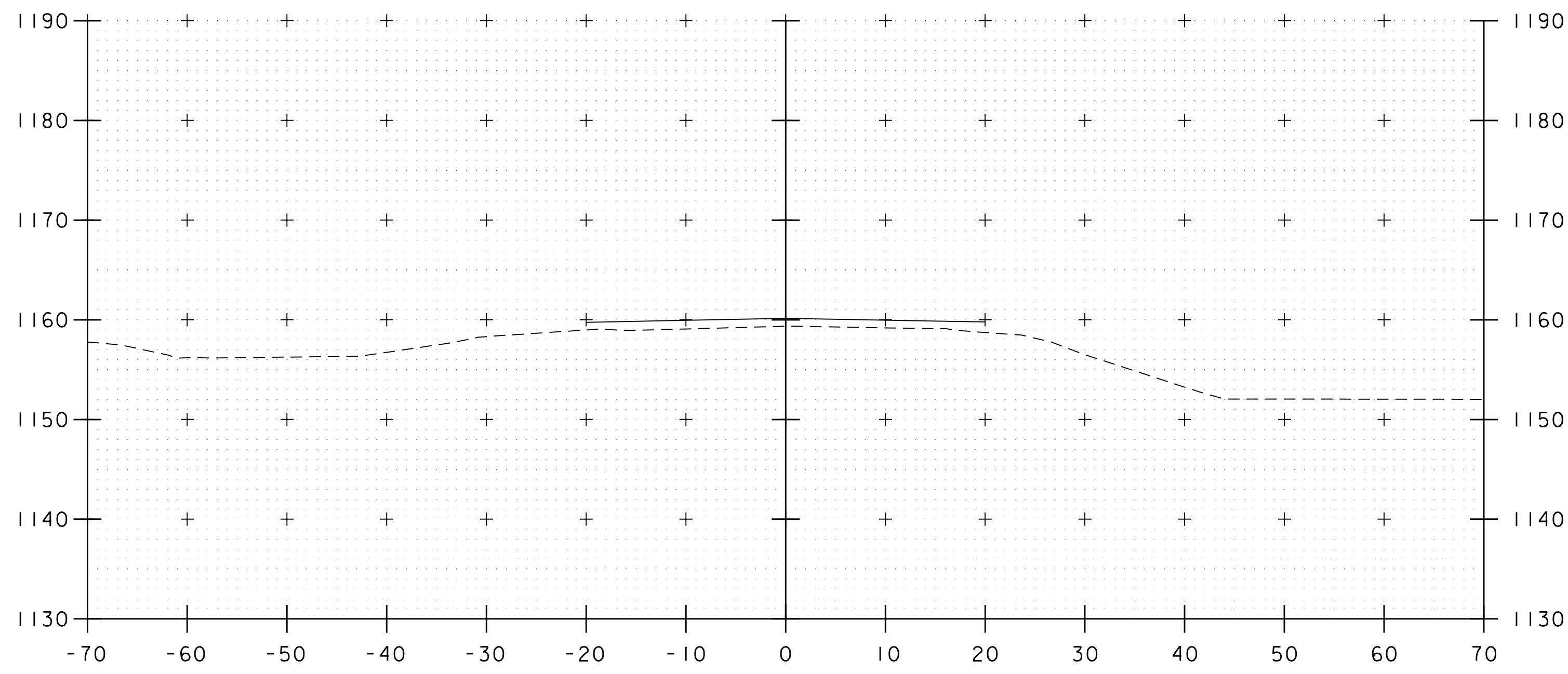
PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260xs.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	II OF 18
DESIGNED BY:	R.H. BARNES	US ROUTE 4 CROSS SECTIONS	



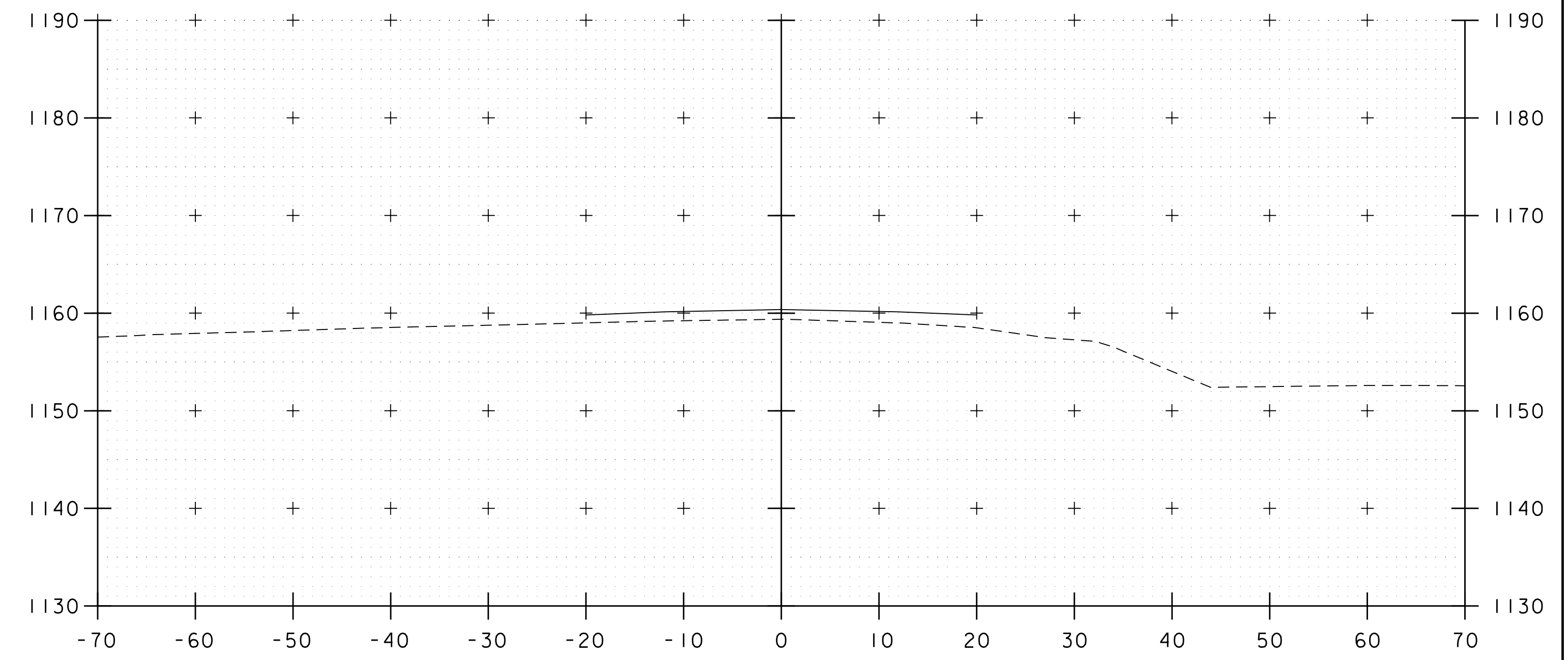
399+75



400+25



399+50

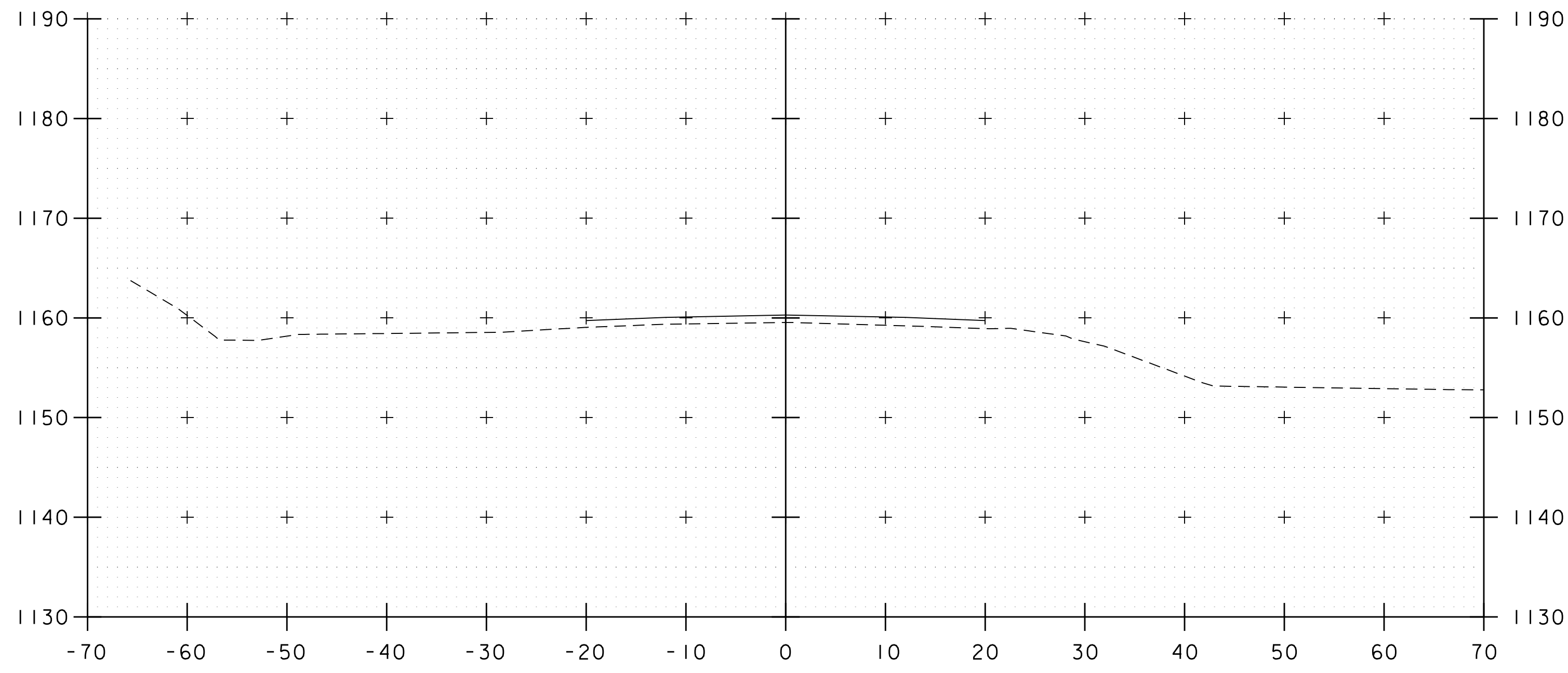


400+00

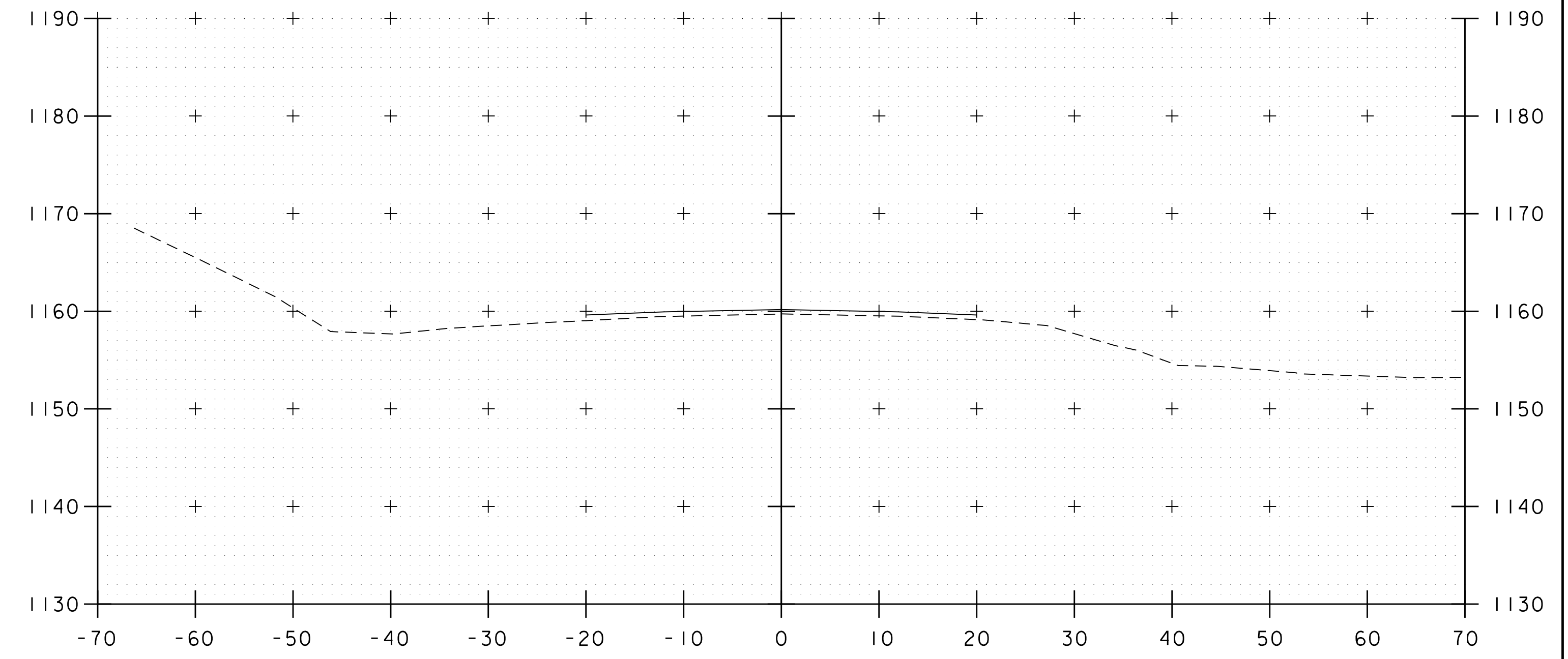
STA.399+50 TO STA.400+25



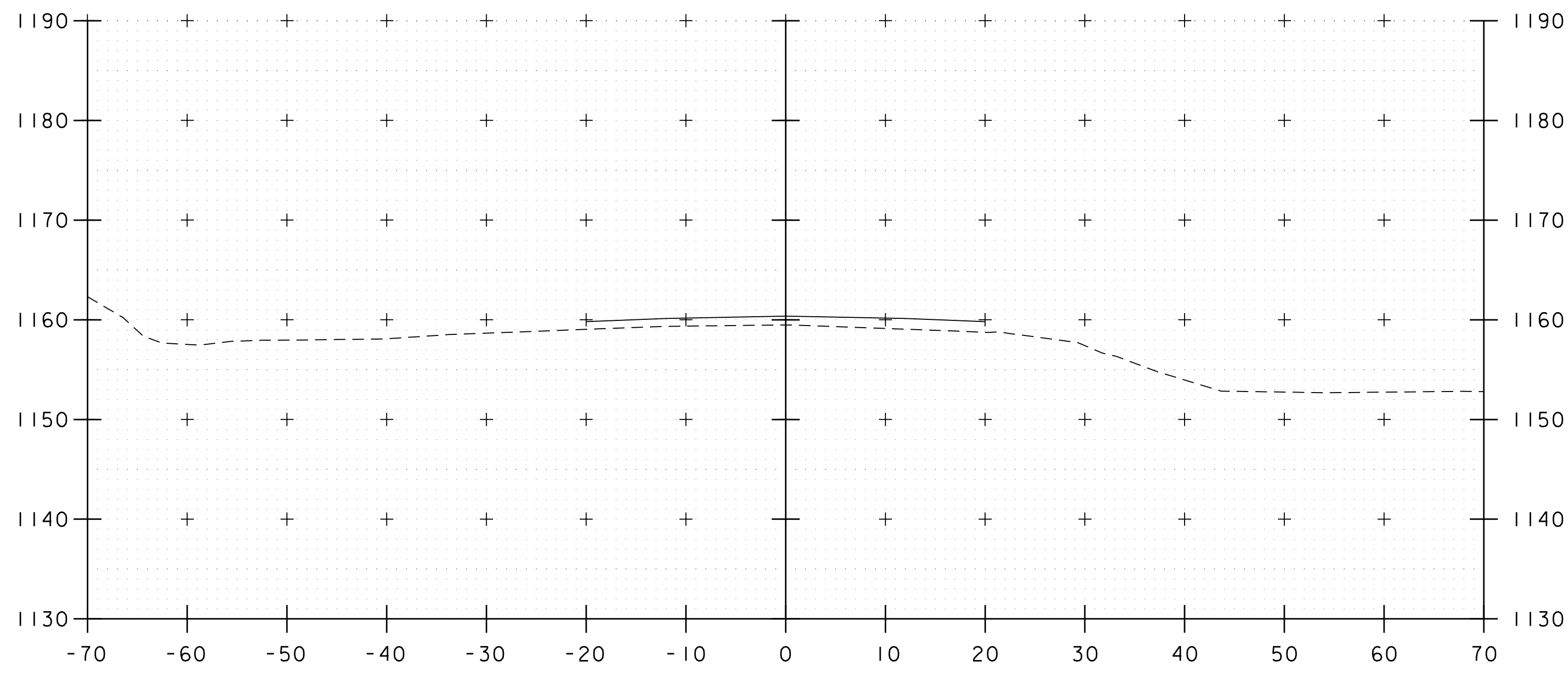
PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260xs.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	12 OF 18
DESIGNED BY:	R.H. BARNES	US ROUTE 4 CROSS SECTIONS	



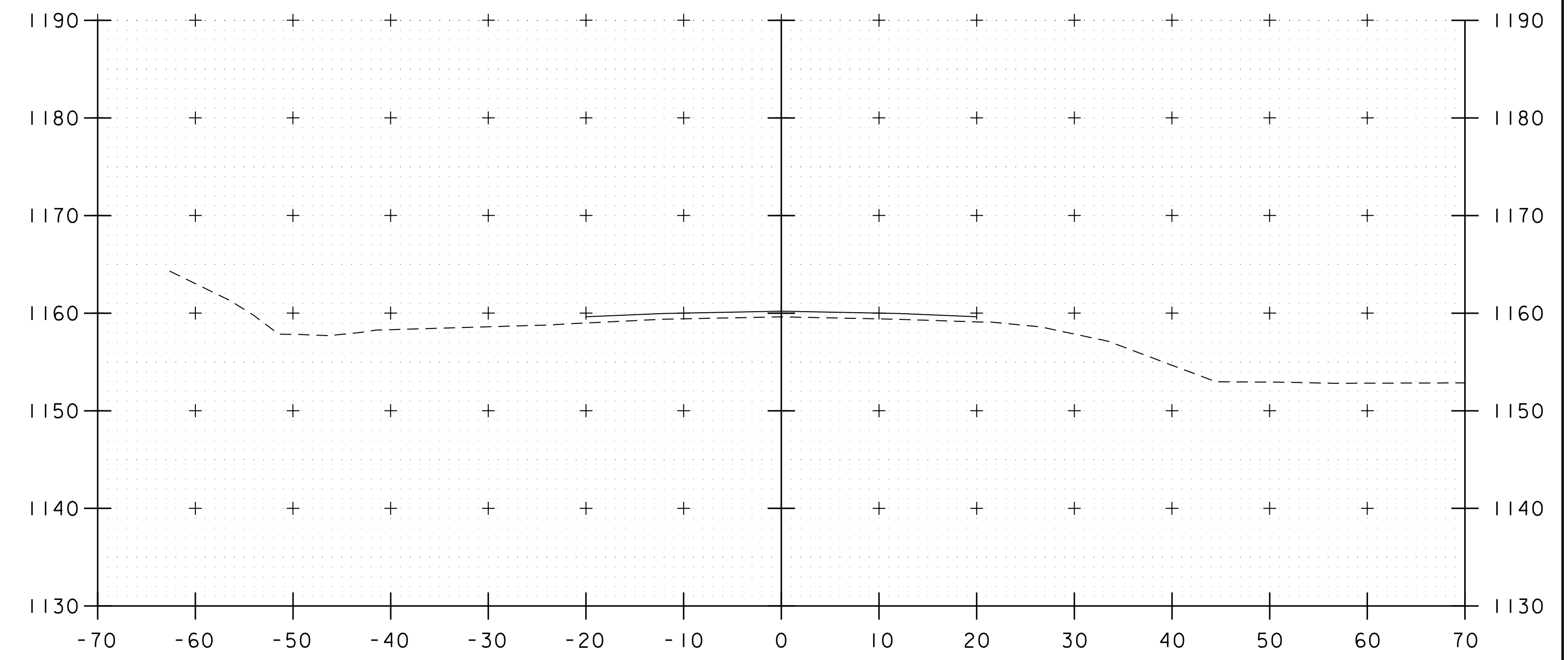
400+75



401+25



400+50

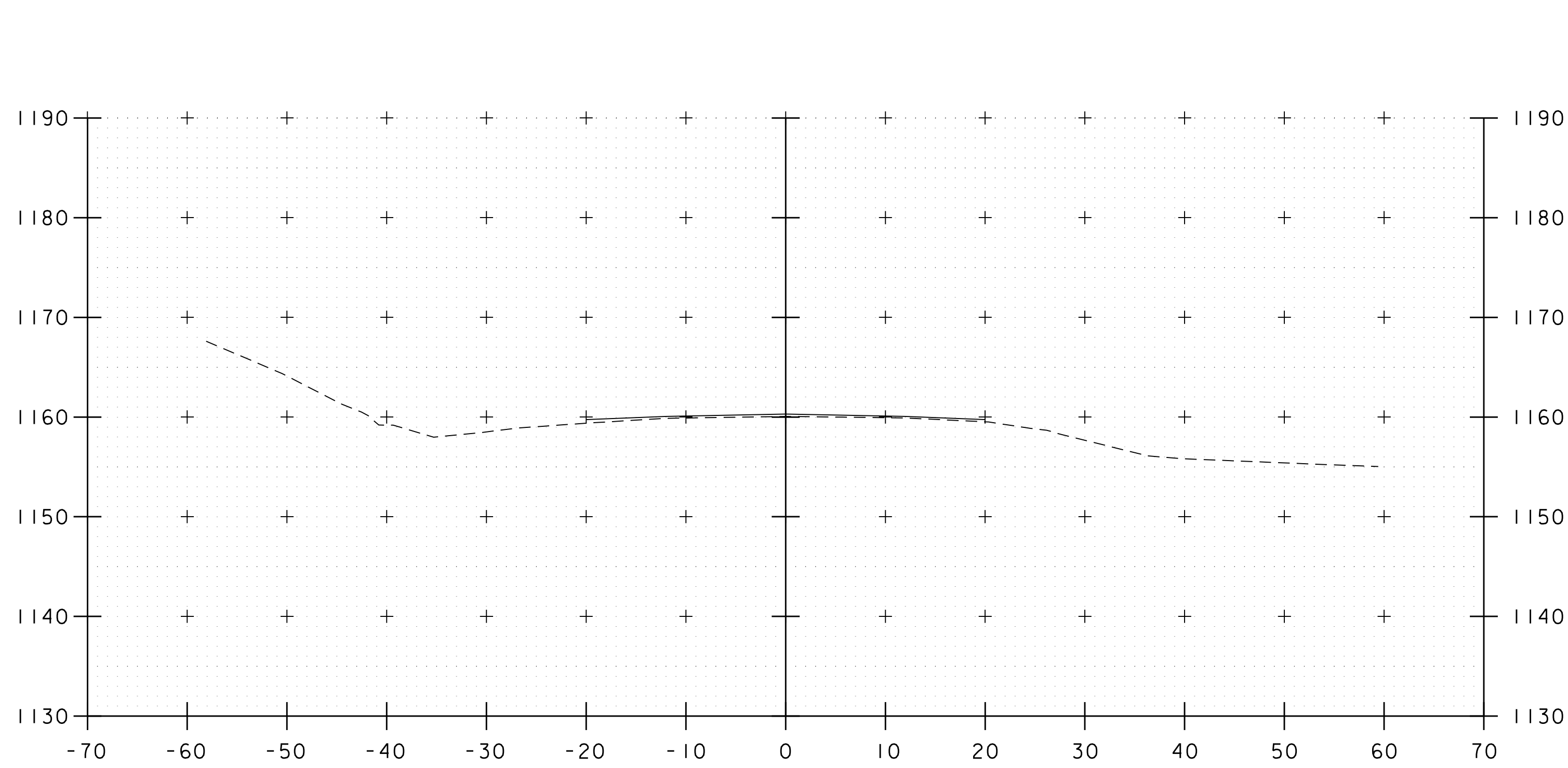


401+00

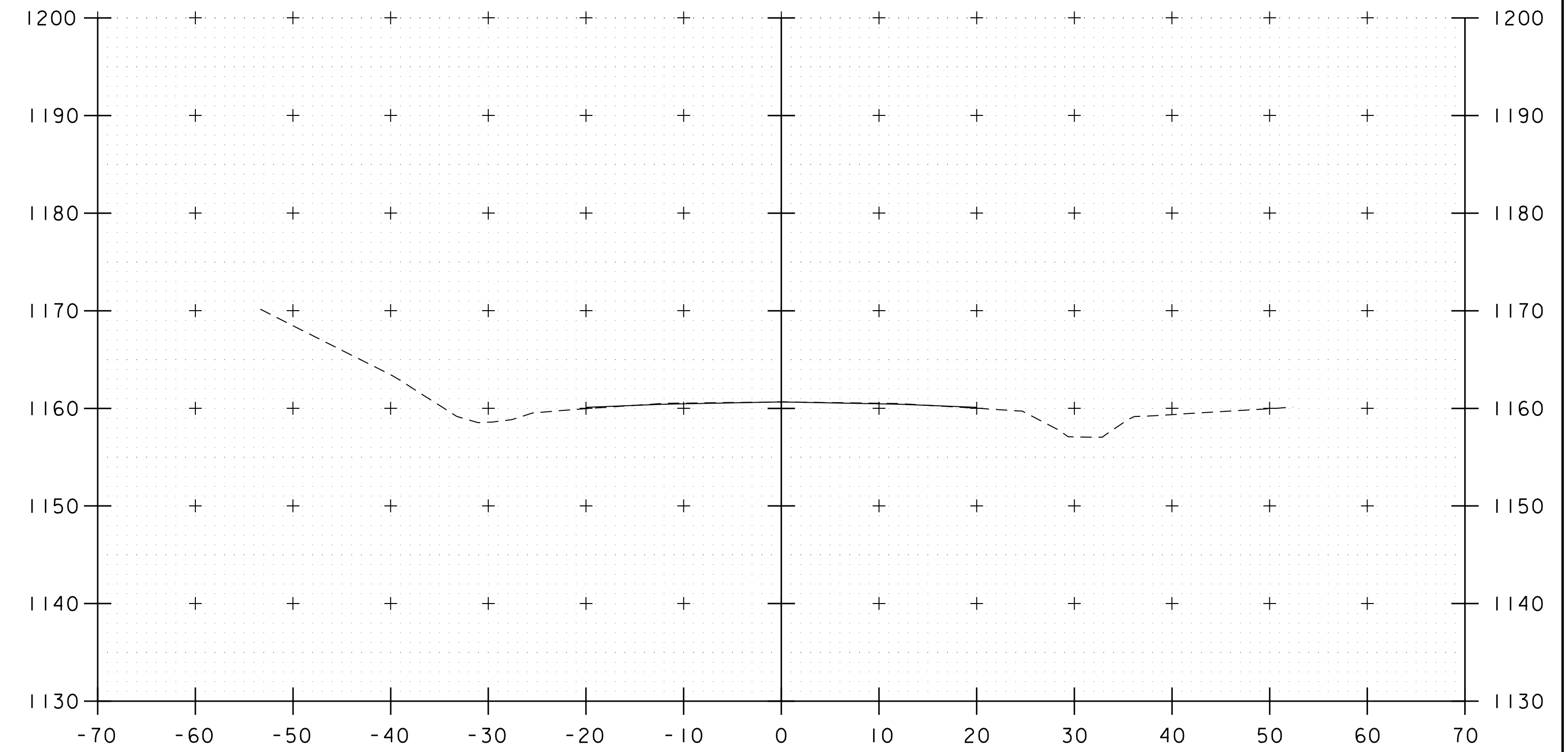
STA.400+50 TO STA.401+25



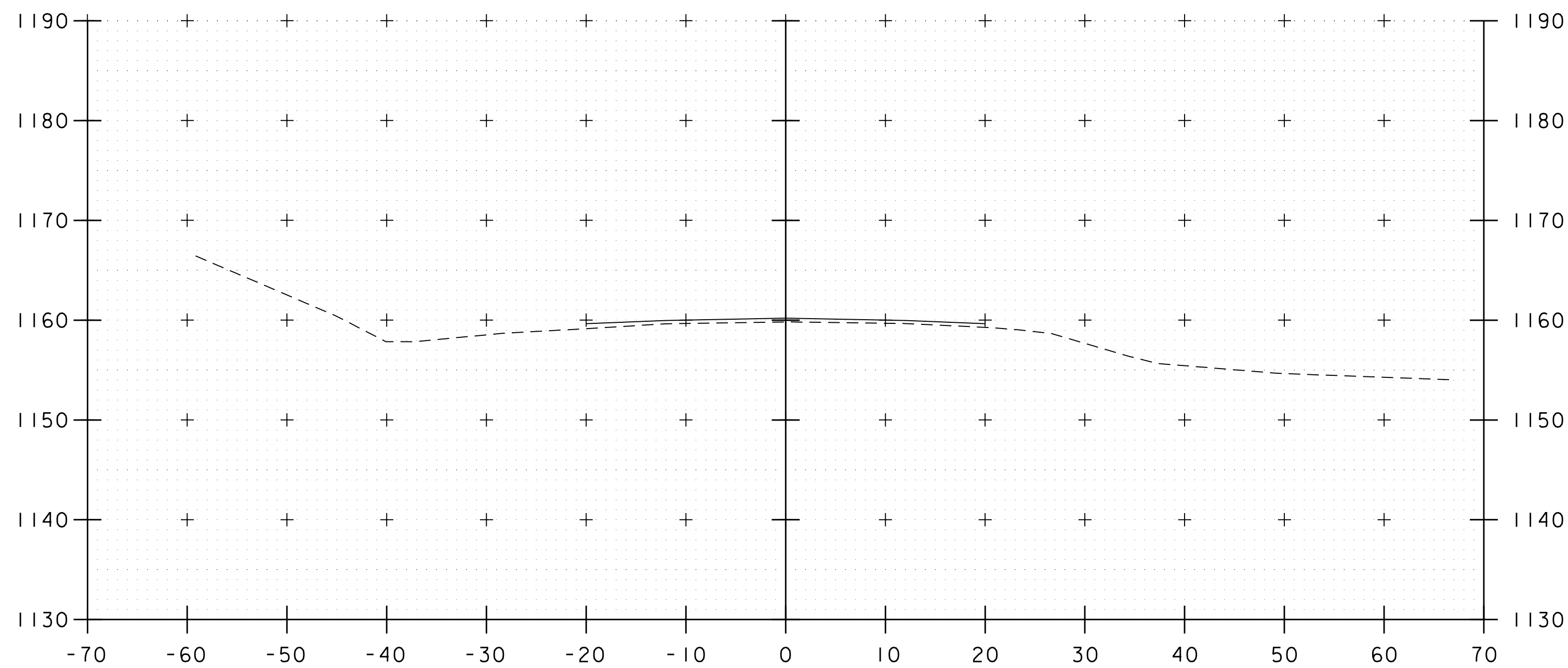
PROJECT NAME: KILLINGTON	
PROJECT NUMBER: BF 020-2(42)	
FILE NAME: z13b260xs.dgn	PLOT DATE: 7/30/2015
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.H. BARNES
DESIGNED BY: R.H. BARNES	CHECKED BY: E.F. LAWES
US ROUTE 4 CROSS SECTIONS	SHEET 13 OF 18



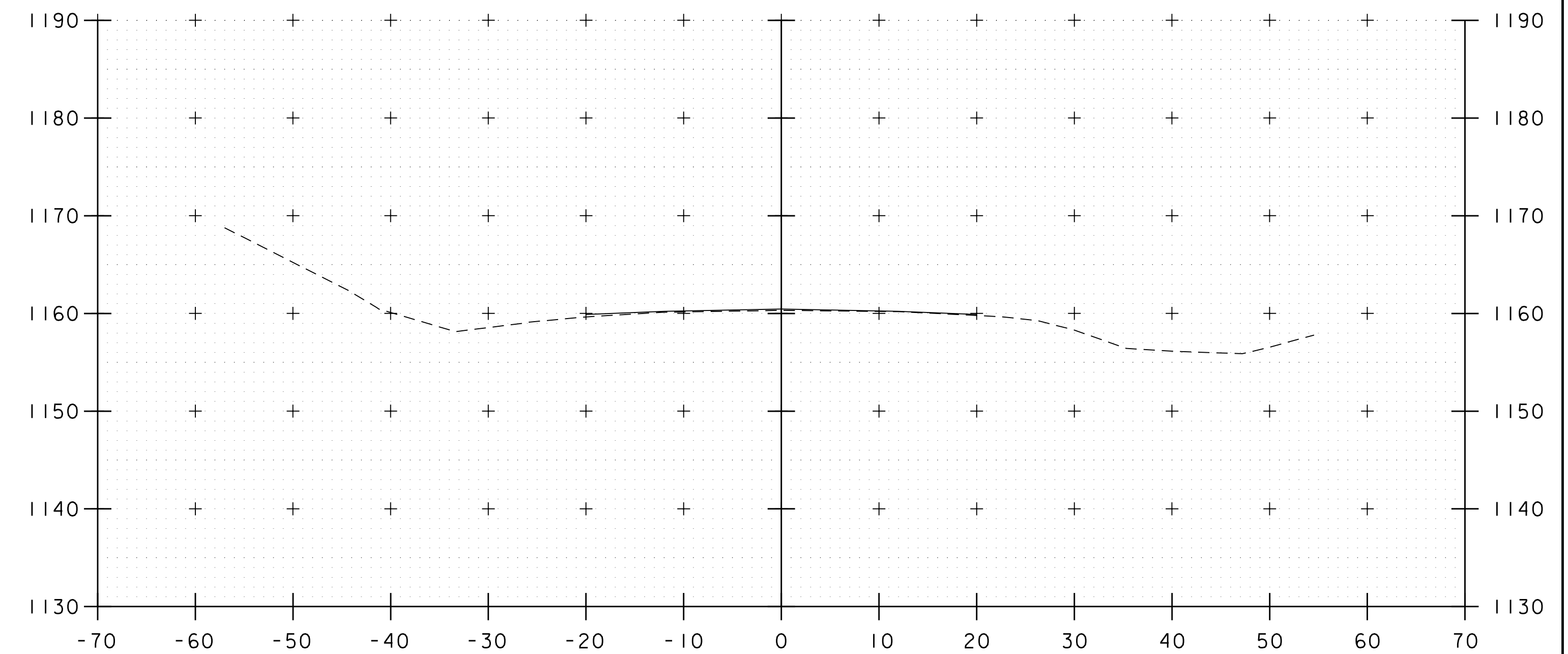
401+75



402+25



401+50



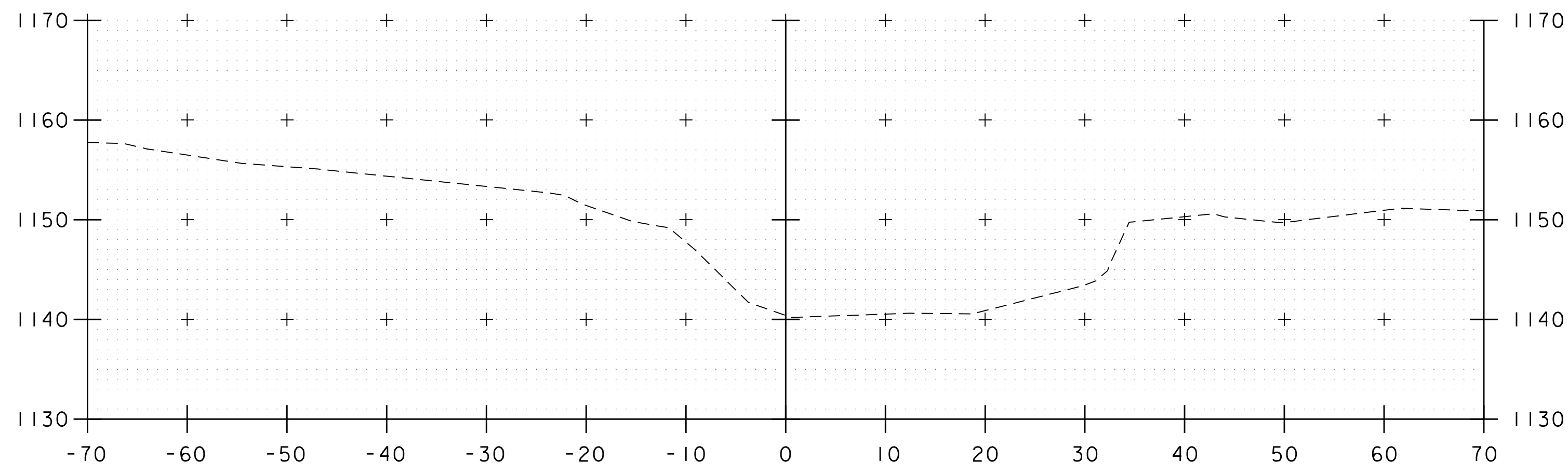
402+00

STA.401+50 TO STA.402+25

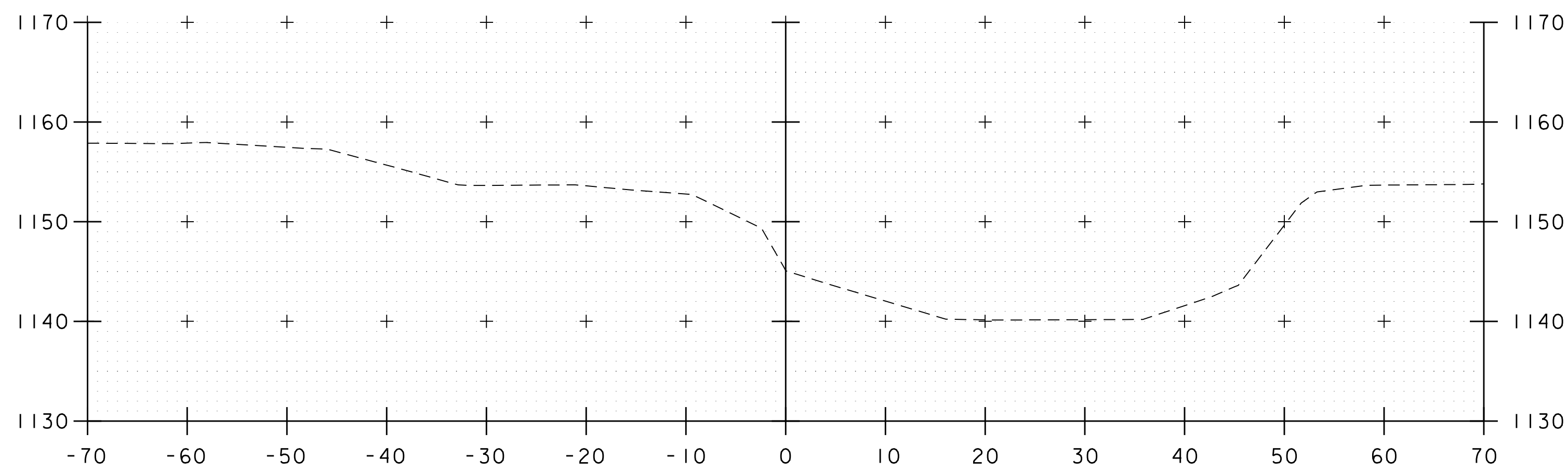


PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260xs.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	14 OF 18
DESIGNED BY:	R.H. BARNES	US ROUTE 4 CROSS SECTIONS	

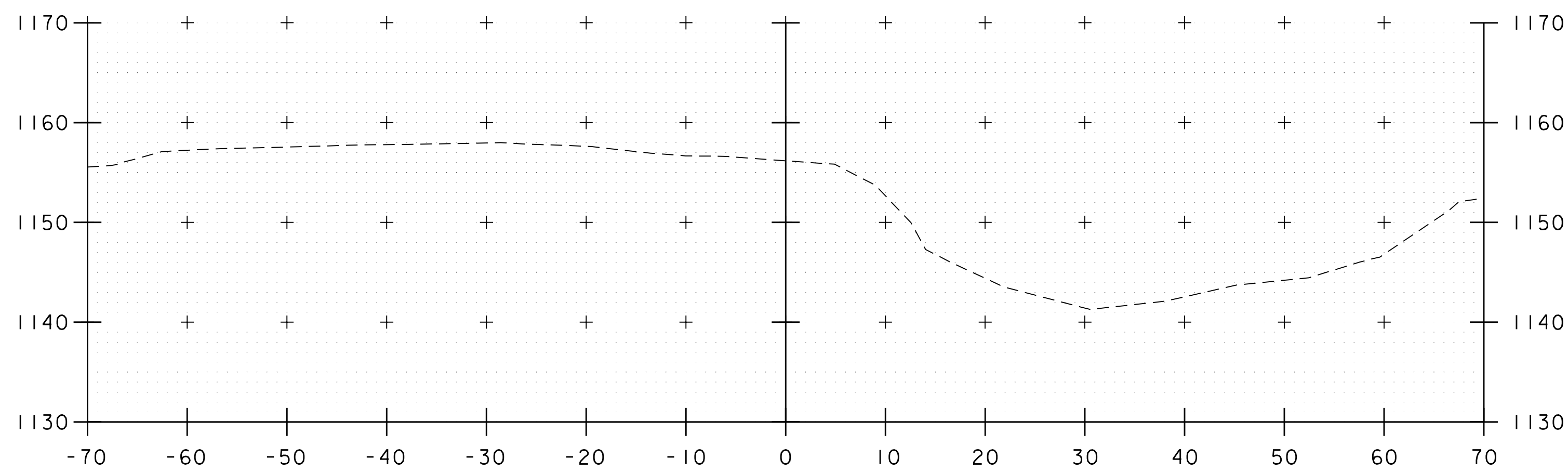




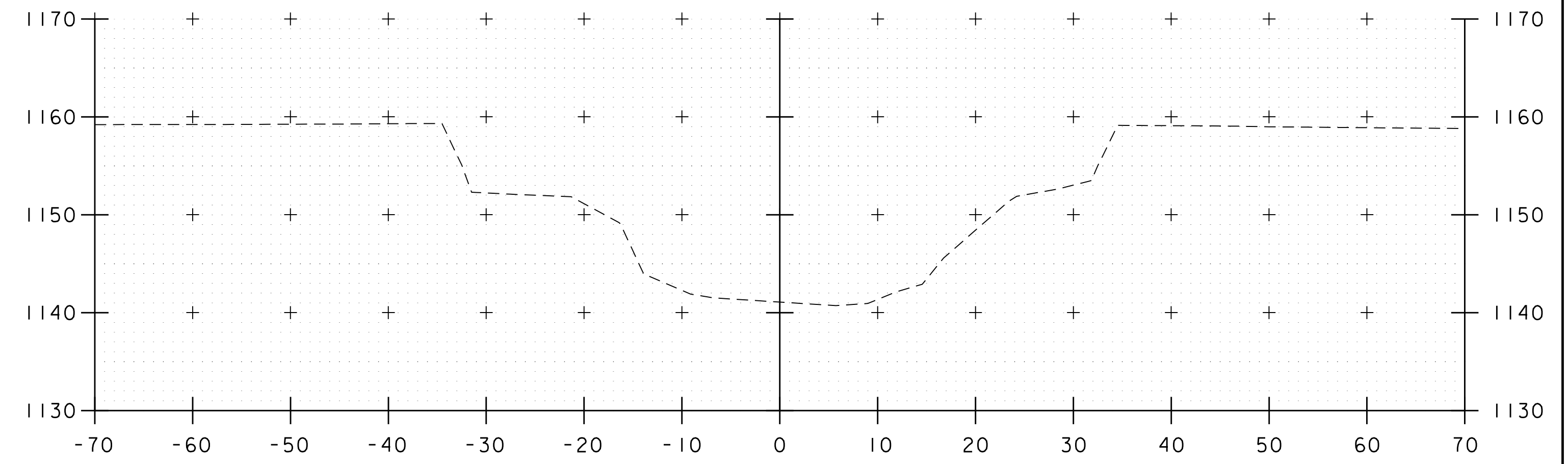
50+50



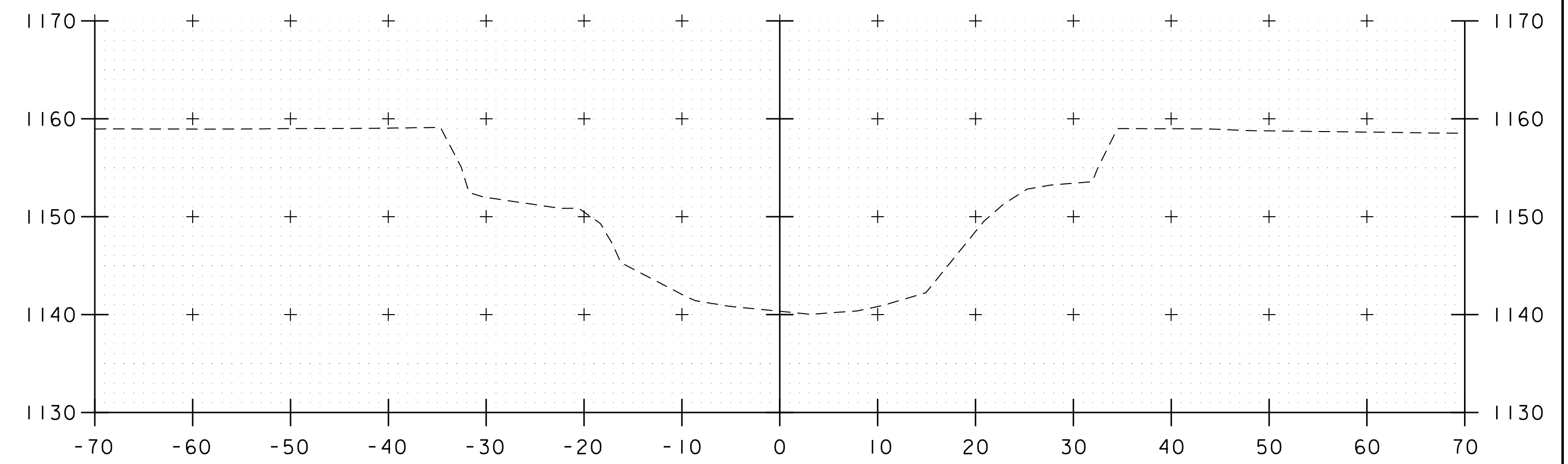
50+25



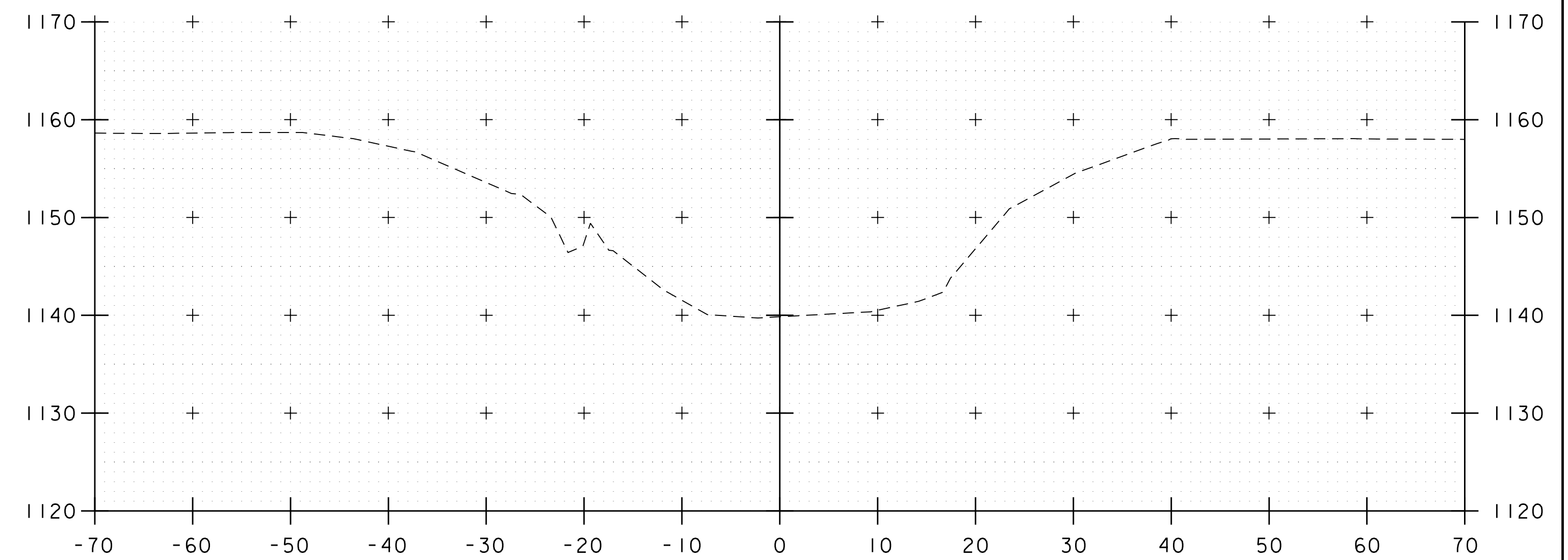
50+00



50+95



50+85



50+75

STA.50+00 TO STA.50+95

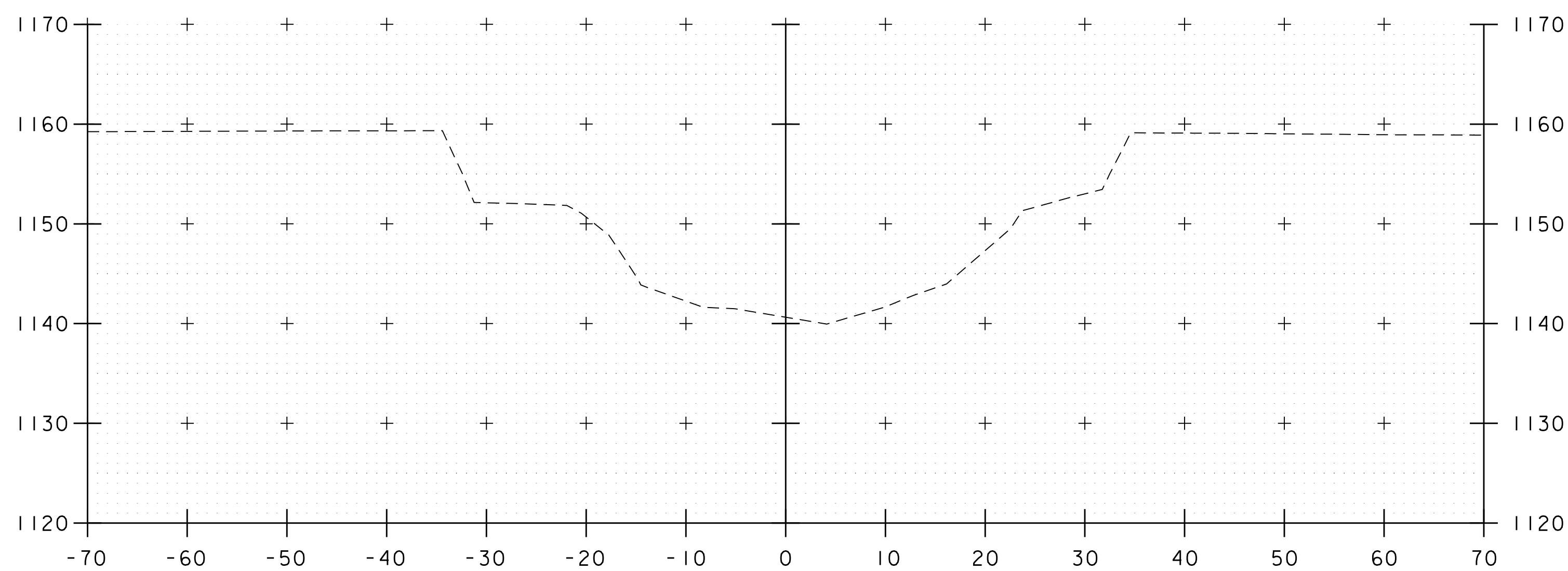


PROJECT NAME: KILLINGTON  
 PROJECT NUMBER: BF 020-2(42)  
 FILE NAME: z13b260chxs.dgn  
 PROJECT LEADER: S.E. BURBANK  
 DESIGNED BY: R.H. BARNES  
 CHANNEL CROSS SECTIONS

PLOT DATE: 7/30/2015  
 DRAWN BY: R.H. BARNES  
 CHECKED BY: E.F. LAWES  
 SHEET 15 OF 18



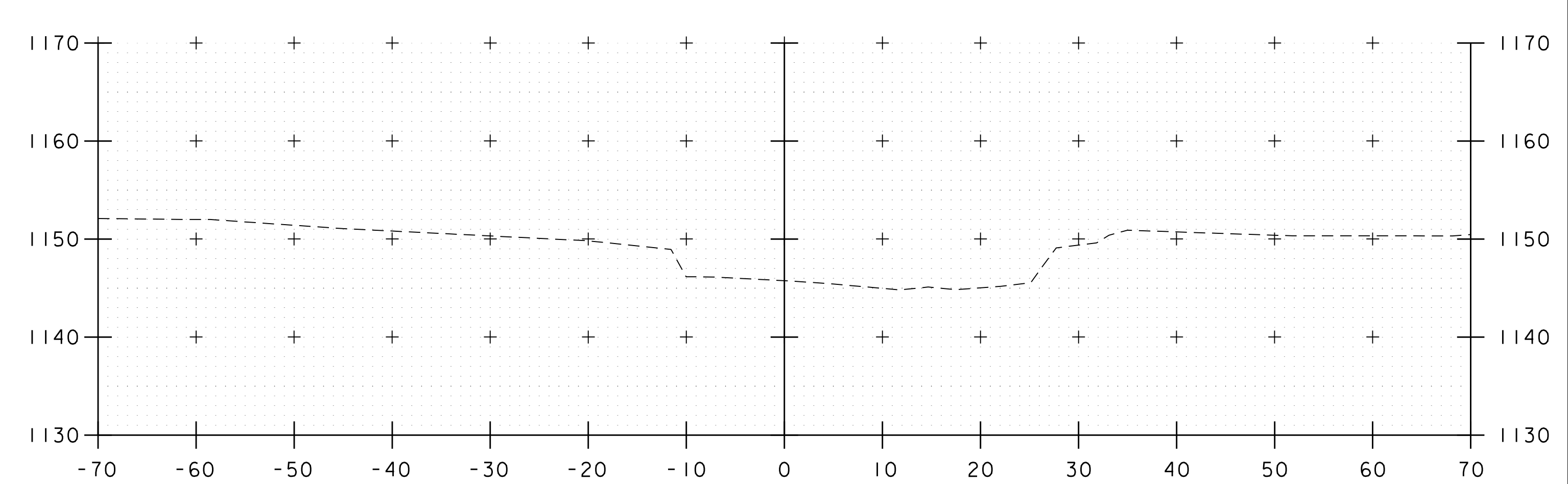
51+05



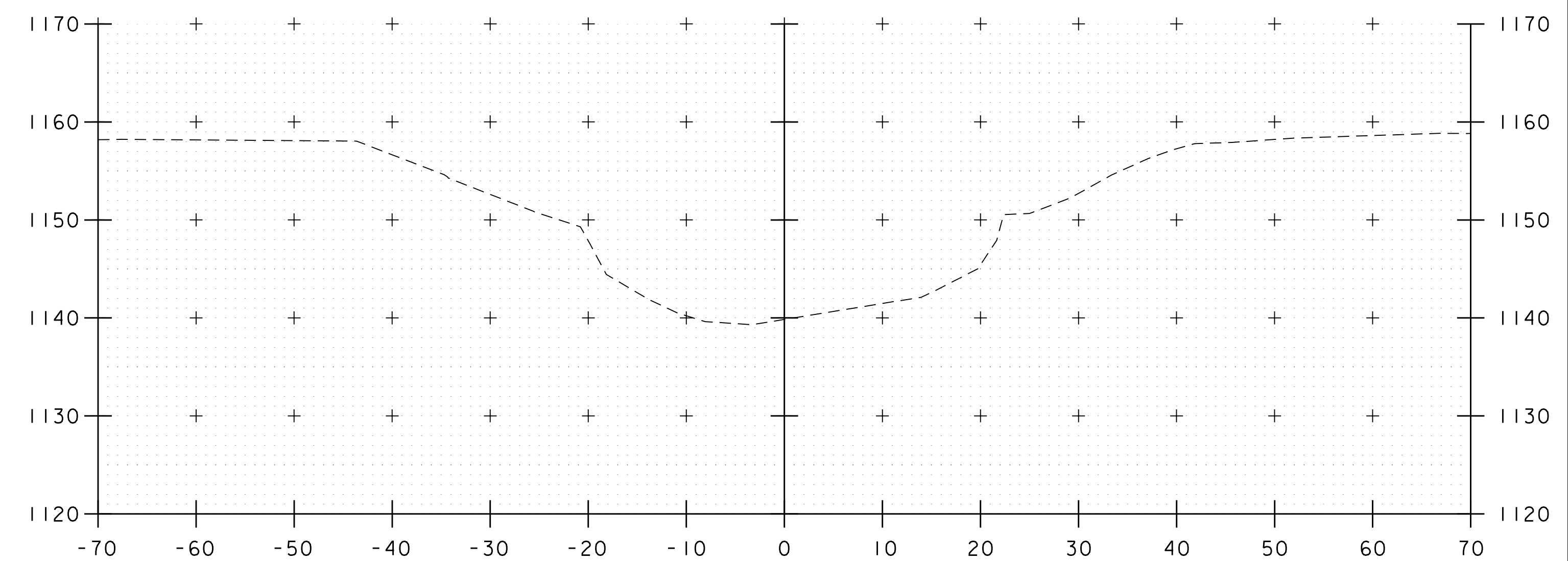
51+15



51+25



51+50

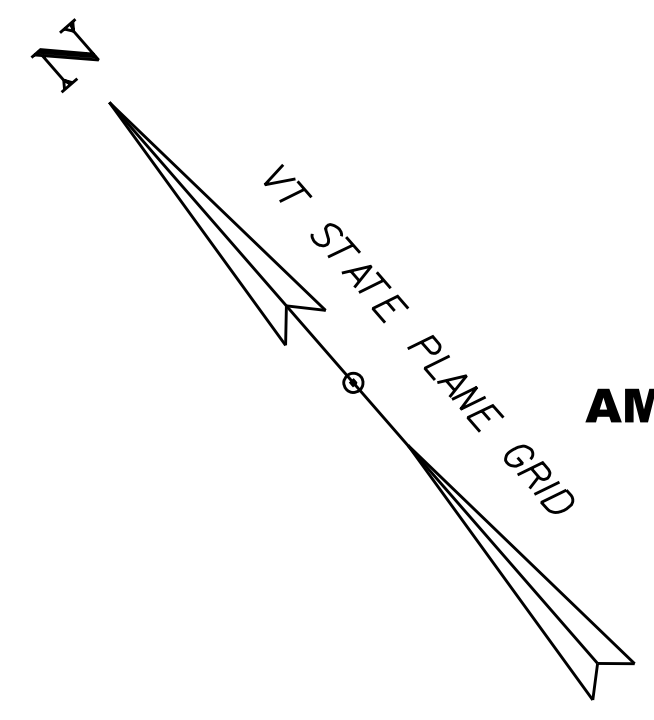


51+75

STA. 51+05 TO STA. 51+75



PROJECT NAME:	KILLINGTON	PLOT DATE:	7/30/2015
PROJECT NUMBER:	BF 020-2(42)	DRAWN BY:	R.H. BARNES
FILE NAME:	z13b260chxs.dgn	CHECKED BY:	E.F. LAWES
PROJECT LEADER:	S.E. BURBANK	SHEET	16 OF 18
DESIGNED BY:	R.H. BARNES	CHANNEL CROSS SECTIONS	



**AMSC KILLINGTON, LLC**

**AMSC KILLINGTON, LLC**

**TOWN OF KILLINGTON  
TH 38  
MISSION FARM ROAD**

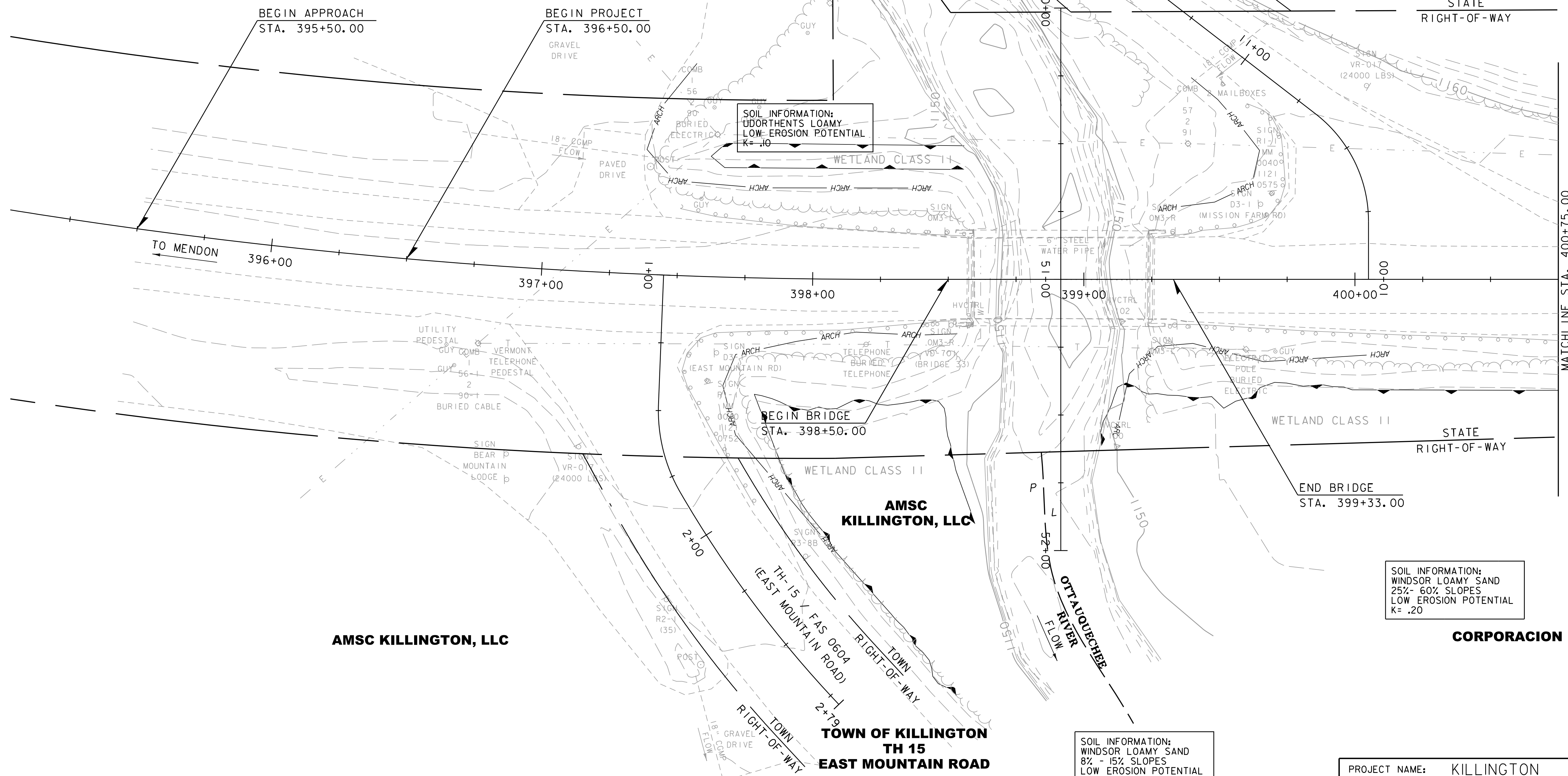
**PHILLIP C. CAMP**

SOIL INFORMATION:  
SUDBURY FINE SANDY LOAM  
0%-3% SLOPES  
MODERATE EROSION POTENTIAL  
K= 0.32

SOIL INFORMATION:  
UDORTHENTS LOAMY  
LOW EROSION POTENTIAL  
K= .10

SOIL INFORMATION:  
WINDSOR LOAMY SAND  
25%- 60% SLOPES  
LOW EROSION POTENTIAL  
K= .20

SOIL INFORMATION:  
WINDSOR LOAMY SAND  
8% - 15% SLOPES  
LOW EROSION POTENTIAL  
K= .15

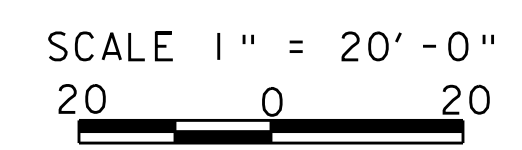


**AMSC KILLINGTON, LLC**

**AMSC KILLINGTON, LLC**

**CORPORACION EL CERRITO**

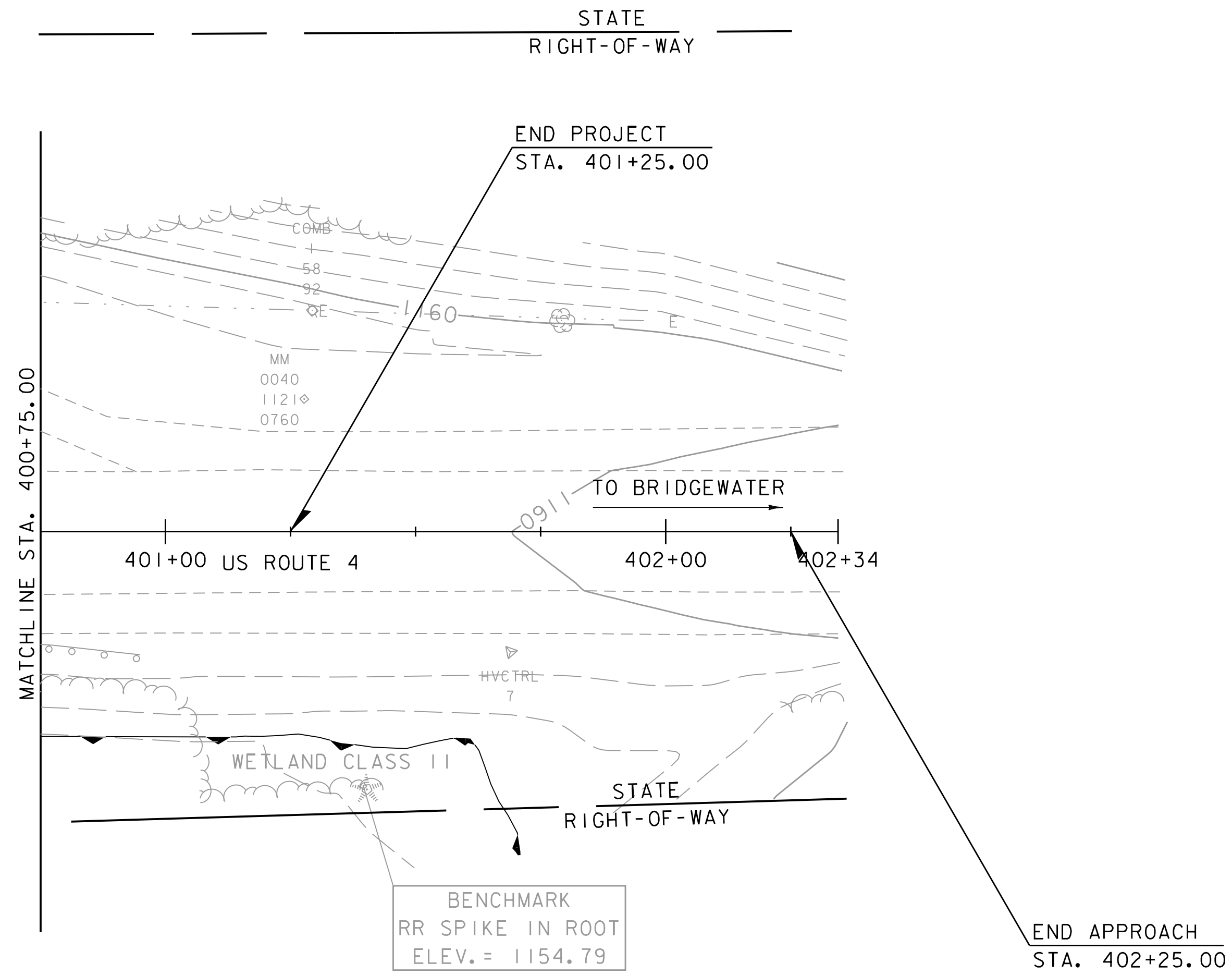
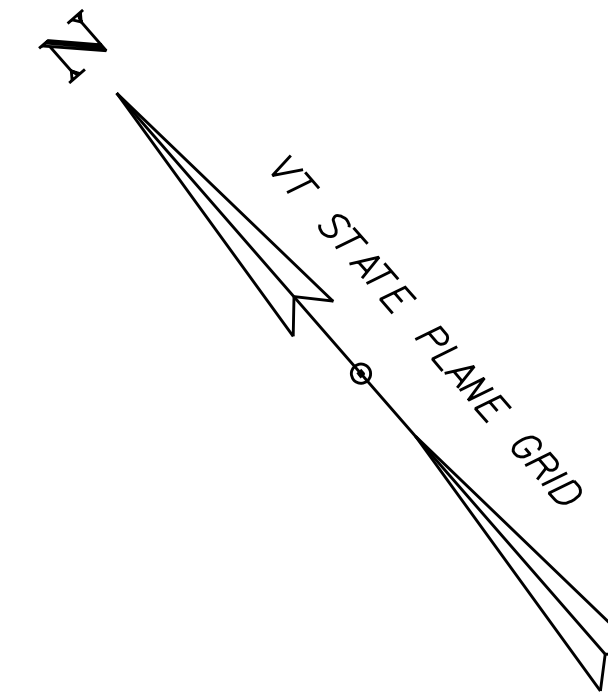
**TOWN OF KILLINGTON  
TH 15  
EAST MOUNTAIN ROAD**



PROJECT NAME: KILLINGTON	
PROJECT NUMBER: BF 020-2(42)	
FILE NAME: z13b260bdr_ero.dgn	PLOT DATE: 7/30/2015
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.H. BARNES
DESIGNED BY: R.H. BARNES	CHECKED BY: E.F. LAWES
RESOURCE SITE PLAN SHEET (1 OF 2)	SHEET 17 OF 18



PHILLIP C. CAMP



SOIL INFORMATION:  
 WINDSOR LOAMY SAND  
 25%- 60% SLOPES  
 LOW EROSION POTENTIAL  
 K= .20

CORPORACION EL CERRITO

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



PROJECT NAME: KILLINGTON	
PROJECT NUMBER: BF 020-2(42)	
FILE NAME: z13b260bdr_ero.dgn	PLOT DATE: 7/30/2015
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.H. BARNES
DESIGNED BY: R.H. BARNES	CHECKED BY: E.F. LAWES
RESOURCE SITE PLAN SHEET (2 OF 2)	SHEET 18 OF 18