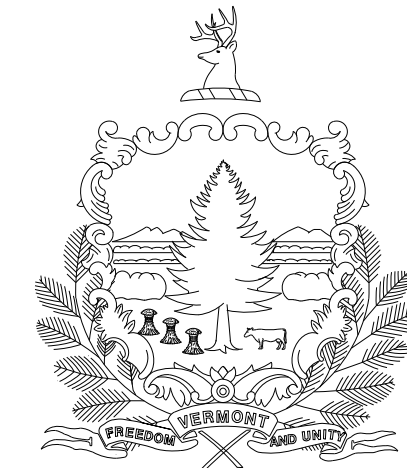


REVIEWER NOTES

1. THE BRIDGE WILL BE CLOSED FOR 12 DAYS. TRUCK TRAFFIC WILL BE MAINTAINED VIA A SIGNED STATE DETOUR. LOCAL TRAFFIC WILL USE OLD ROUTE 9.
2. IT IS ANTICIPATED THAT CHANNEL RIGHTS WILL BE NECESSARY FOR THIS PROJECT. THE EXTENT OF RIGHTS REQUIRED WILL NOT BE KNOWN UNTIL FINAL DESIGN.
3. THERE ARE NO EXISTING OVERHEAD UTILITIES WITHIN THE PROJECT AREA.
4. A SIMPLIFIED PAVEMENT DESIGN WILL BE DONE FOR THIS PROJECT.

# STATE OF VERMONT AGENCY OF TRANSPORTATION



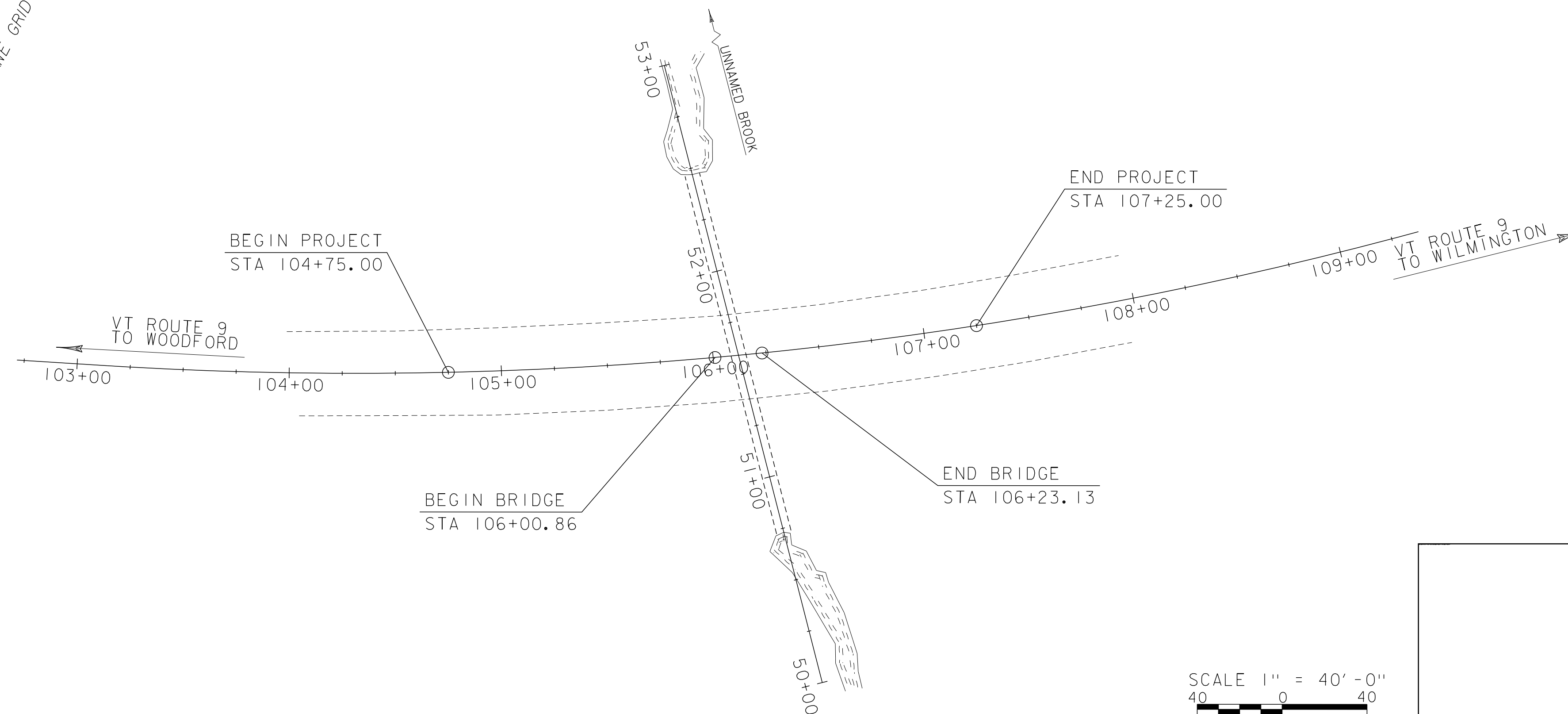
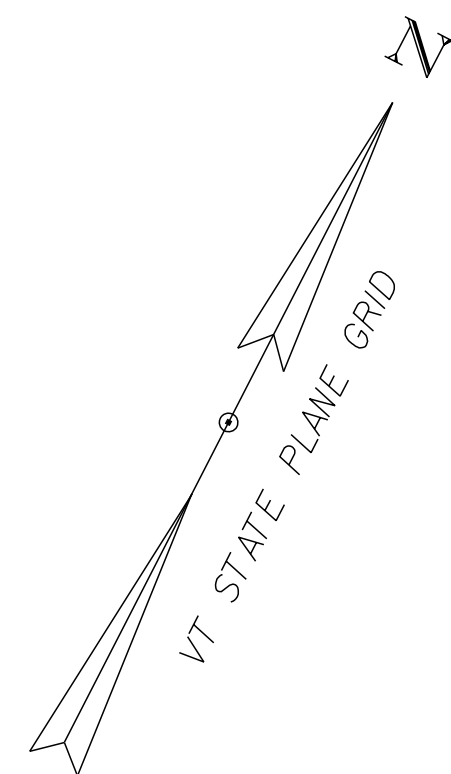
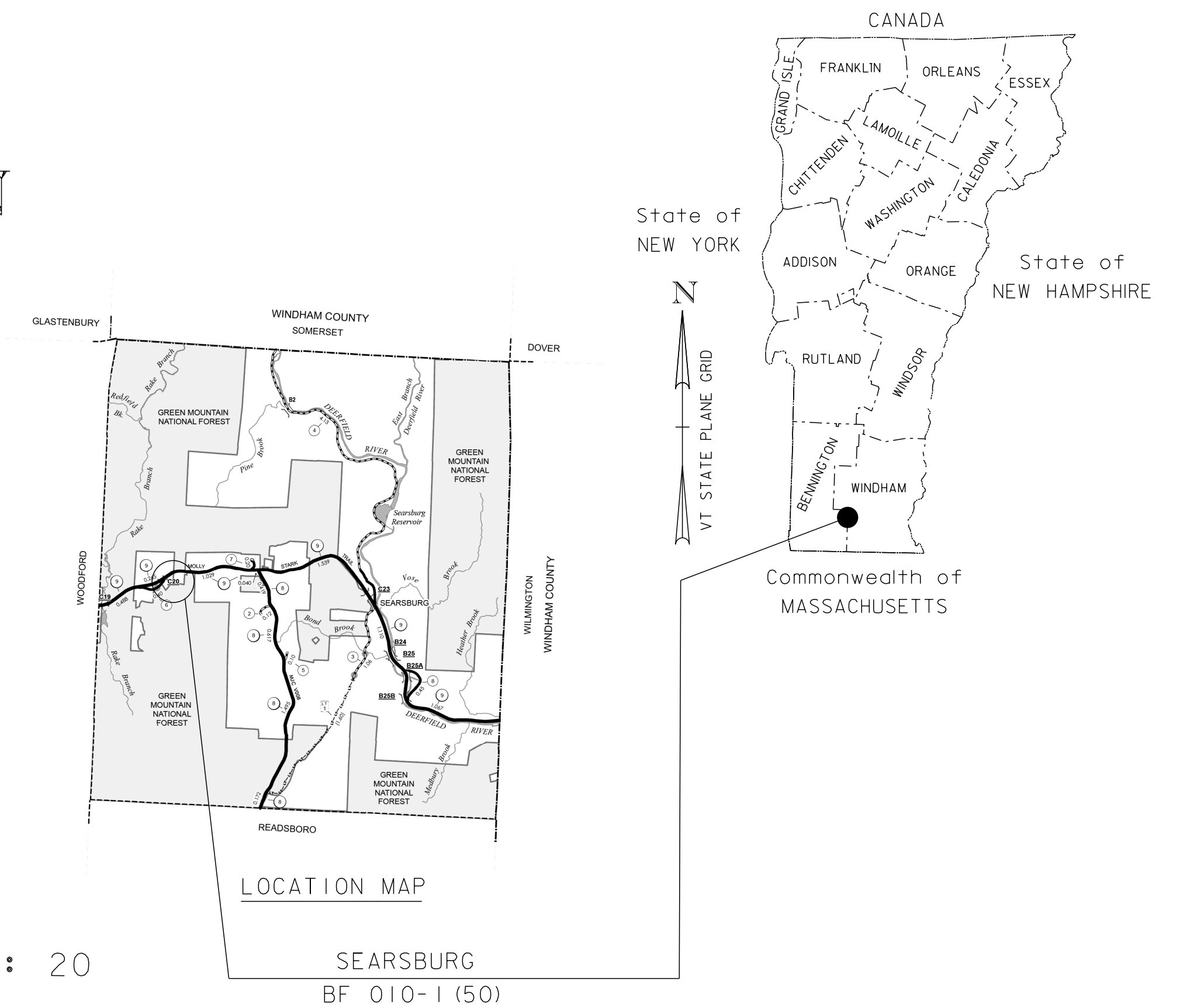
## PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF SEARSBURG  
COUNTY OF BENNINGTON

ROUTE NO : VT ROUTE 9, RURAL PRINCIPAL ARTERIAL, BRIDGE NO : 20

PROJECT LOCATION: APPROXIMATELY 1.1 MILES WEST OF THE INTERSECTION WITH VT ROUTE 8.  
 PROJECT DESCRIPTION: REPLACEMENT OF EXISTING CULVERT WITH A NEW PRECAST CONCRETE BOX CULVERT WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 22.27 FEET  
 LENGTH OF ROADWAY: 250.00 FEET  
 LENGTH OF PROJECT: 250.00 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 2	
SURVEYED BY :	VTRANS
SURVEYED DATE :	07/08/2014
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAVD83 (2011)

SCALE 1" = 40' - 0"  
40 0 40



GM2 Associates, Inc.  
197 Loudon Road, Suite 310  
Concord, NH 03301  
Tel: 603-856-7854  
Fax: 603-856-7855

**REVISED  
CONCEPTUAL PLANS  
21-APR-2017**

DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : N. WARK	
PROJECT NAME :	SEARSBURG
PROJECT NUMBER :	BF 010-1 (50)
SHEET 1 OF 15 SHEETS	

# PRELIMINARY INFORMATION SHEET (CULVERT)

INDEX OF SHEETS

PLAN SHEETS

- 1 TITLE SHEET
- 2 PRELIMINARY INFORMATION SHEET
- 3 TYPICAL SECTIONS
- 4 LEGEND SHEET
- 5 LAYOUT SHEET
- 6 PROFILE SHEET
- 7-10 MAINLINE SECTIONS
- 11-14 CHANNEL SECTIONS
- 15 RESOURCE SITE PLAN

STANDARDS LIST

STRUCTURES 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	<i>d<sub>p</sub></i> : ---
3. CULVERT OPENING	<i>D</i> : 7.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	$\Delta$ : ---
5. PRESTRESSING STRAND	<i>f<sub>y</sub></i> : ---
6. PRESTRESSED CONCRETE STRENGTH	<i>f'<sub>c</sub></i> : ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	<i>f'<sub>el</sub></i> : ---
8. CONCRETE, HIGH PERFORMANCE CLASS AA	<i>f'<sub>c</sub></i> : --- KSI
9. CONCRETE, HIGH PERFORMANCE CLASS A	<i>f'<sub>c</sub></i> : --- KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	<i>f'<sub>c</sub></i> : 3.5 KSI
11. CONCRETE, CLASS C	<i>f'<sub>c</sub></i> : --- KSI
12. REINFORCING STEEL	<i>f<sub>y</sub></i> : 60 KSI
13. STRUCTURAL STEEL AASHTO M270	<i>f<sub>y</sub></i> : ---
14. NOMINAL BEARING RESISTANCE OF SOIL	<i>q<sub>n</sub></i> : --- KSF
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	$\phi$ : ---
16. NOMINAL BEARING RESISTANCE OF ROCK	<i>q<sub>n</sub></i> : --- KSF
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	$\phi$ : ---
18. PILE RESISTANCE FACTOR	$\phi$ : ---
19. LATERAL PILE DEFLECTION	$\Delta$ : --- INCH
20. BASIC WIND SPEED	<i>V<sub>3s</sub></i> : ---
21. MINIMUM GROUND SNOW LOAD	<i>p<sub>g</sub></i> : ---
22. SEISMIC DATA	<i>PGA</i> : --- <i>S<sub>s</sub></i> : --- <i>S<sub>1</sub></i> : ---

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:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER						

AS BUILT "REBAR" DETAIL

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

CULVERT DESIGN CRITERIA

- 1. PROPOSED CULVERT IS A STEEL CORRUGATED (0'-0" X 0'-0" X 0'-0" PIPE).
- 2. CULVERT ENDS ARE NOT SKEWED.
- 3. CULVERT WILL BE SET AT A SLOPE OF 0.00 IN. ON 0 FT.
- 4. CULVERT WILL NOT REQUIRE FISH PASSAGE ACCOMODATIONS
- 5. CULVERT CONSTRUCTION WILL NOT REQUIRE A TEMPORARY PIPE

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT	
2017	3200	490	54	15.2	540	20 year ESAL for flexible pavement from 2017 to 2037 : N/A
2037	3400	520	54	19.9	750	40 year ESAL for flexible pavement from 2017 to 2057 : N/A
						Design Speed : 50 mph

PROJECT NAME: SEARSBURG

PROJECT NUMBER: BF 010-1(50)

FILE NAME: z13b332pi.dgn

PROJECT LEADER: T. LEVINS

DESIGNED BY: B. WILLIAMS

PRELIMINARY INFORMATION SHEET

PLOT DATE: 4/21/2017

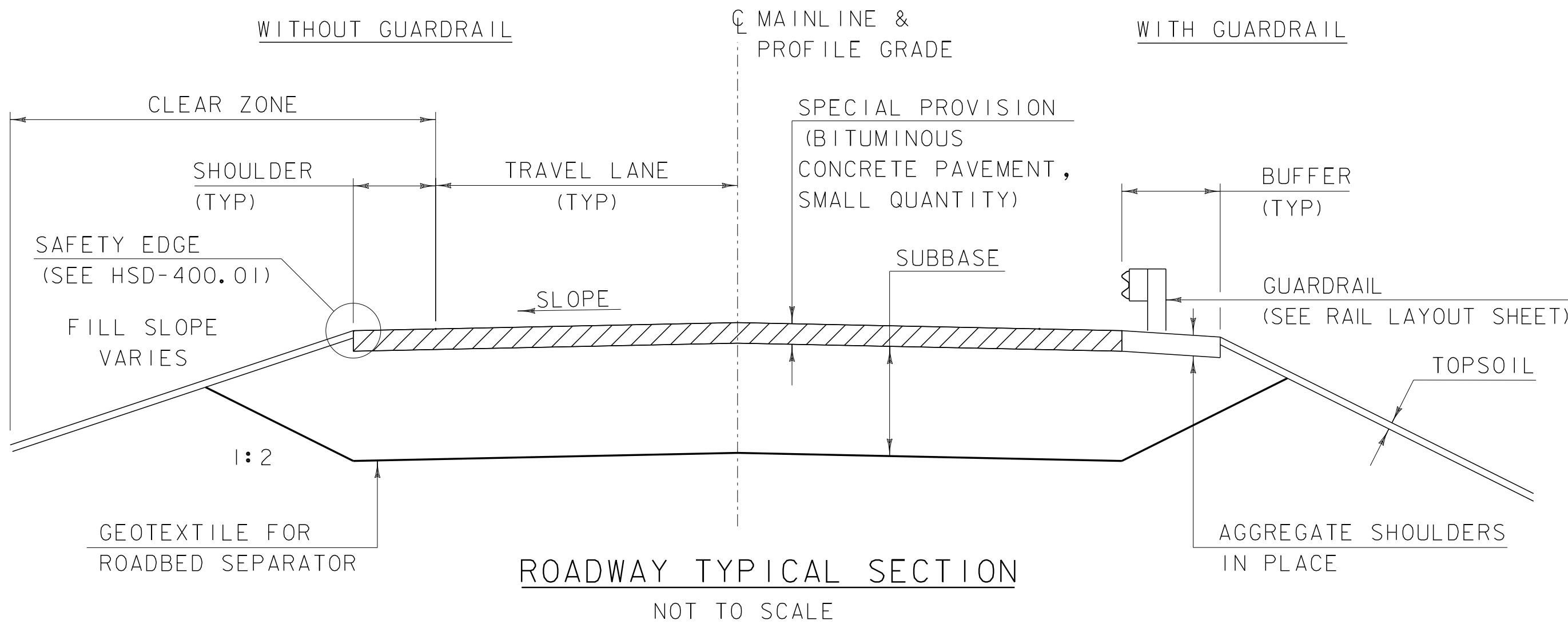
DRAWN BY: B. WILLIAMS

CHECKED BY: T. LEVINS

SHEET 2 OF 15

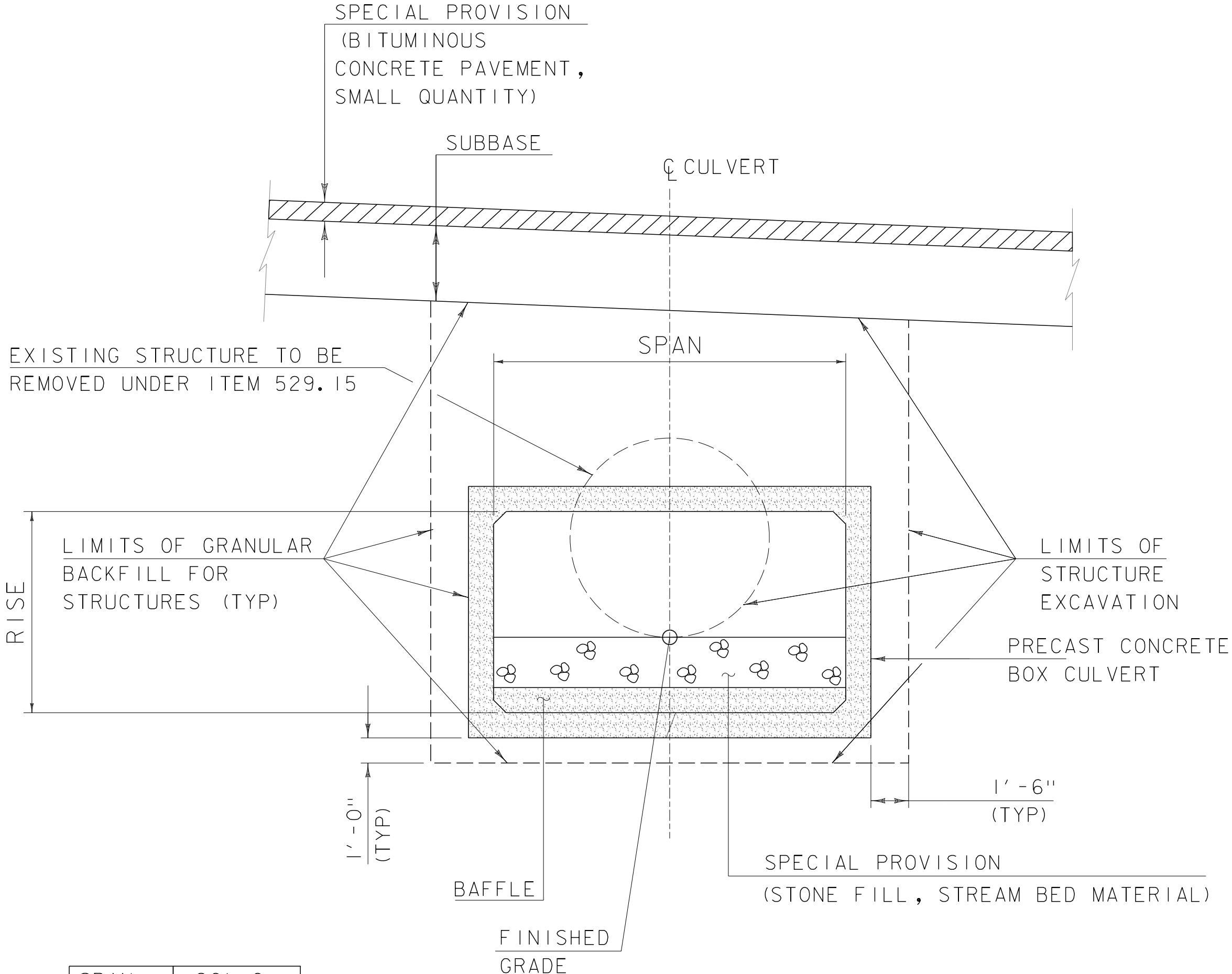
ROAD TYPICAL INFORMATION

	LEFT		RIGHT	
	WIDTH	SLOPE	WIDTH	SLOPE
TRAVEL LANE	12'-0"	VARIES	12'-0"	VARIES
SHOULDER	10'-0"	VARIES	10'-0"	VARIES
BUFFER	3'-7"	-0.060	3'-7"	-0.060
FILL SLOPE		1:1.75		1:1.75
CLEAR ZONE (CUT)	12'-0"		12'-0"	
CLEAR ZONE (FILL)	20'-0"		20'-0"	
CLEAR ZONE (GUARDRAIL)	4'-0"		4'-0"	



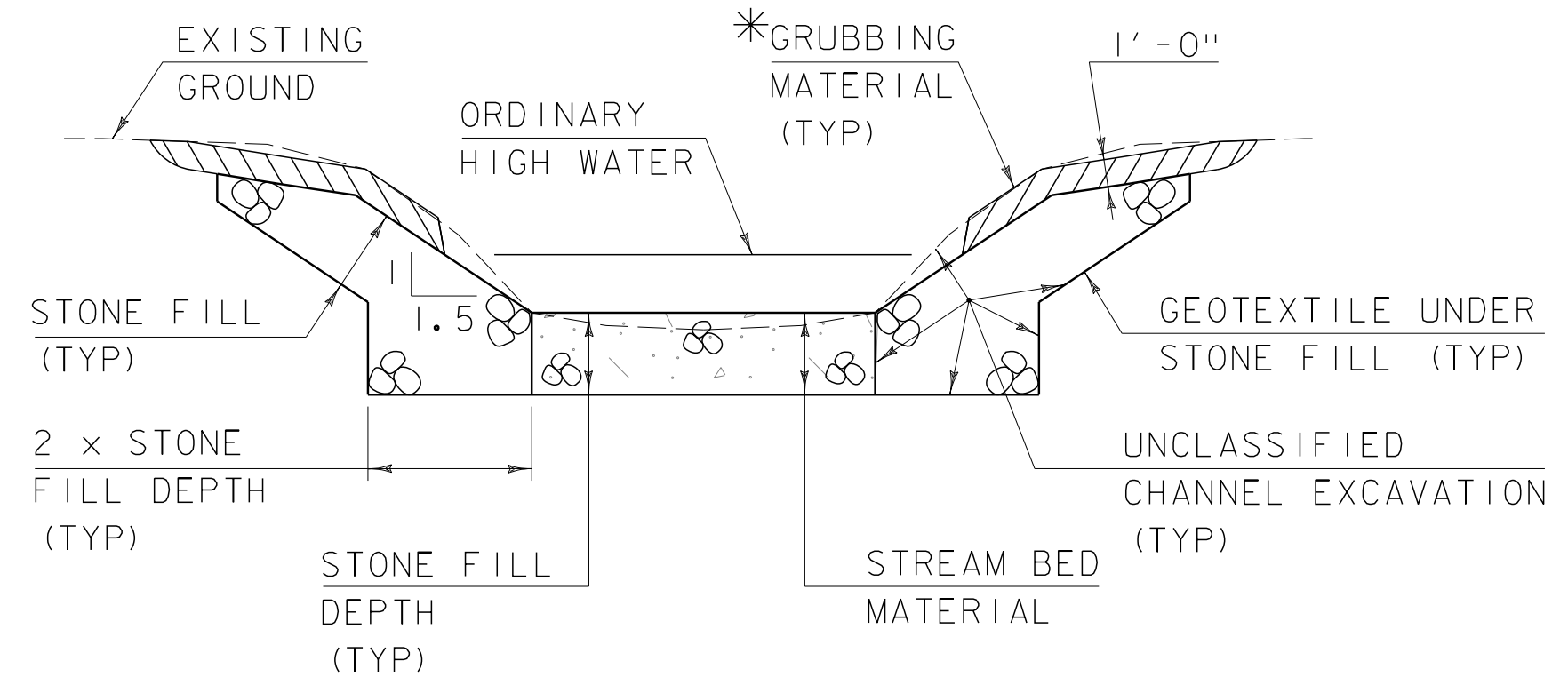
MATERIAL INFORMATION

	THICKNESS	TYPE
WEARING COURSE	1 1/2"	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IVS)
BINDER COURSE	1 1/2"	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IVS)
BASE COURSE #2	N/A	N/A
BASE COURSE #1	3 1/2"	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IIS)
SUBBASE	36"	SUBBASE OF DENSE GRADED CRUSHED STONE
STONE FILL	4'-0"	STONE FILL, TYPE IV
TOPSOIL	4"	TOPSOIL
STREAM BED MATERIAL	3'-0"	SPECIAL PROVISION (STONE FILL, STREAM BED MATERIAL) (TYPE III)



SPAN	20'-0"
RISE	13'-0"
LENGTH	150'-0"

\* WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



PROJECT NAME: SEARSBURG  
PROJECT NUMBER: BF 010-1(50)

FILE NAME: z13b332typ.dgn  
PROJECT LEADER: T. LEVINS  
DESIGNED BY: B. WILLIAMS  
TYPICAL SECTION

PLOT DATE: 7/6/2016  
DRAWN BY: B. WILLIAMS  
CHECKED BY: T. LEVINS  
SHEET 3 OF 15



**GENERAL INFORMATION**

**SYMBOLOLOGY LEGEND NOTE**

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY 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. SYMBOLOLOGY 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 RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

**UTILITY SYMBOLOLOGY**

**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+TELEP.
— 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+TELEP.
—	UTILITY POLE GUY WIRE

**PROJECT CONSTRUCTION SYMBOLOLOGY**

**PROJECT DESIGN & LAYOUT SYMBOLOLOGY**

— — — — 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 x x BF x x x x	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLOLOGY**

**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 SYMBOLOLOGY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
—	SILT FENCE
—	SILT FENCE WOVEN WIRE
—	CHECK DAM
—	DISTURBED AREAS REQUIRING RE-VEGETATION
—	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOLOGY

**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
(H)	HISTORIC STRUCTURE

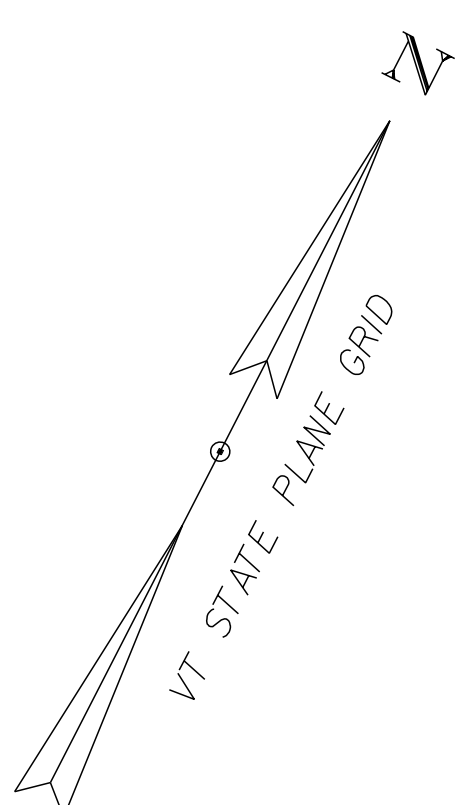
**CONVENTIONAL TOPOGRAPHIC SYMBOLOLOGY**

**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: SEARSBURG  
PROJECT NUMBER: BF 010-1(50)

FILE NAME: z13b332leg.dgn PLOT DATE: 7/6/2016  
PROJECT LEADER: T. LEVINS DRAWN BY: VTRANS  
DESIGNED BY: VTRANS CHECKED BY: T. LEVINS  
LEGEND SHEET SHEET 4 OF 15



**MARRA, JAMES A  
& LYNN R.**

UNNAMED  
BROOK

CHANNEL POE  
STA. 53+00.00

HVCTRL  
34  
Δ

STATE RIGHT  
OF WAY

PC  
STA 103+14.11

BEGIN APPROACH  
STA 104+25.00

BEGIN PROJECT  
STA 104+75.00

BEGIN BRIDGE  
STA 106+00.86

MAINLINE STA 106+12.00 =  
CHANNEL STA 51+59.08  
Δ = 98°

END BRIDGE  
STA 106+23.13

CONCEPTUAL  
CONSTRUCTION LIMITS

END PROJECT  
STA. 107+25.00

END APPROACH  
STA. 107+75.00

VT ROUTE 9  
TO WOODFORD

GRAVEL  
DRIVE

MED  
RED PINE  
TIE  
DIST=70.26

BENCHMARK 5  
VT STATE SURVEY  
DISK IN ROCK  
"B95034"  
ELEV. = 2256.62

**MACK, DAVID L. & WILLIAM R.  
& YANKE, DONALD L.**

**SNYDER, DANIEL  
& DEBORAH A.**

CHANNEL POB  
STA. 50+00.00

PI  
STA. 107+40.48 BK =  
STA. 107+26.72 AHD

MAINLINE CURVE 1  
PT STA. 111+53.09  
DELTA = 25° 10' 10"  
D = 3° 00' 00"  
R = 1909.86'  
T = 426.37'  
L = 838.98'  
E = 47.01'

STATE RIGHT  
OF WAY

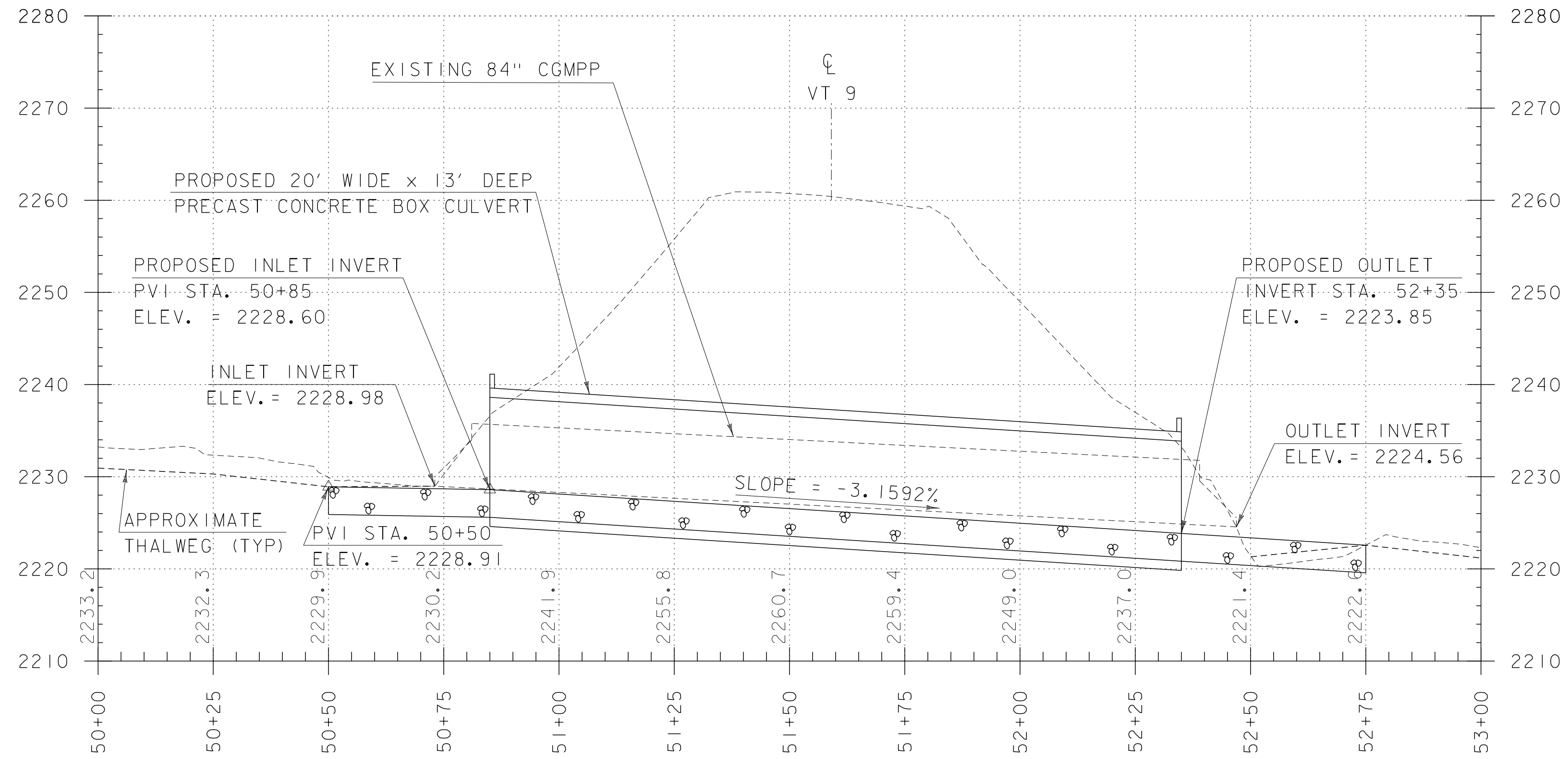
VT ROUTE 9  
TO WILMINGTON

EXISTING CULVERT DATA  
84" CGMPP, 174' LONG  
39 SQ FT WATERWAY  
BUILT 1965  
26' AVERAGE COVER

SCALE 1" = 20'-0"  
0 20



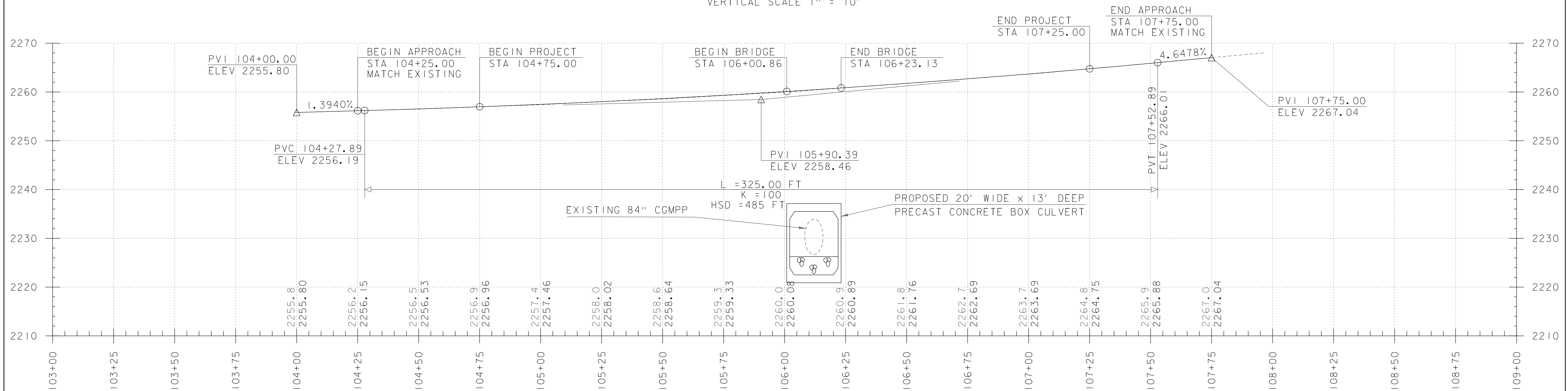
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PROJECT NUMBER: BF 010-1(50)	DRAWN BY: J. MERCER
FILE NAME: z13b332bdr.dgn	CHECKED BY: T. LEVINS
PROJECT LEADER: T. LEVINS	SHEET 5 OF 15
DESIGNED BY: J. MERCER	
LAYOUT SHEET	



**CULVERT PROFILE**

HORIZONTAL SCALE 1" = 20'  
 VERTICAL SCALE 1" = 10'

NOTE:  
 ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG  $\phi$   
 ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG  $\phi$



**VT ROUTE 9 PROFILE**

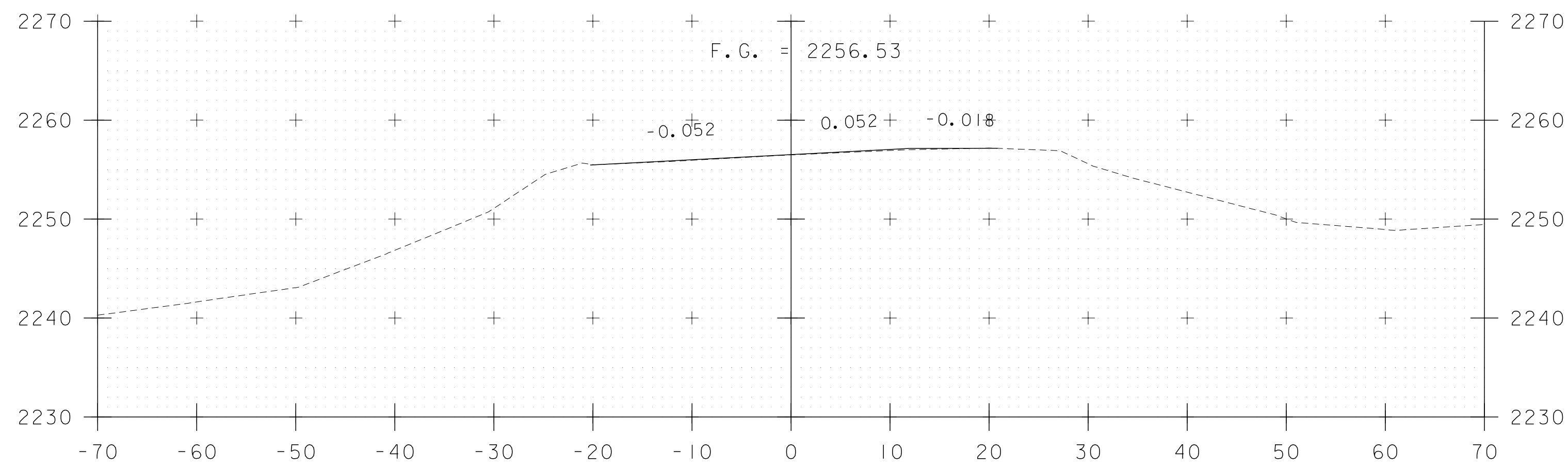
HORIZONTAL SCALE 1" = 20'  
 VERTICAL SCALE 1" = 10'

PROJECT NAME: SEARSBURG  
 PROJECT NUMBER: BF 010-I(50)

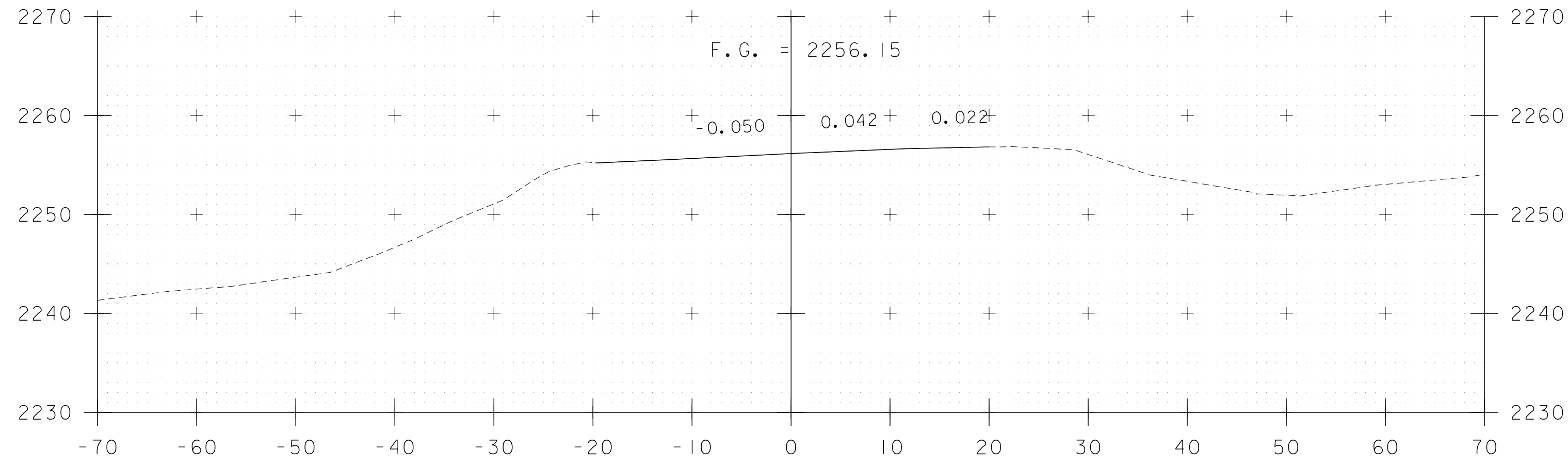
FILE NAME: z13b332pro.dgn  
 PROJECT LEADER: T. LEVINS  
 DESIGNED BY: J. MERCER

PLOT DATE: 4/11/2017  
 DRAWN BY: B. WILLIAMS  
 CHECKED BY: T. LEVINS  
 SHEET 6 OF 15

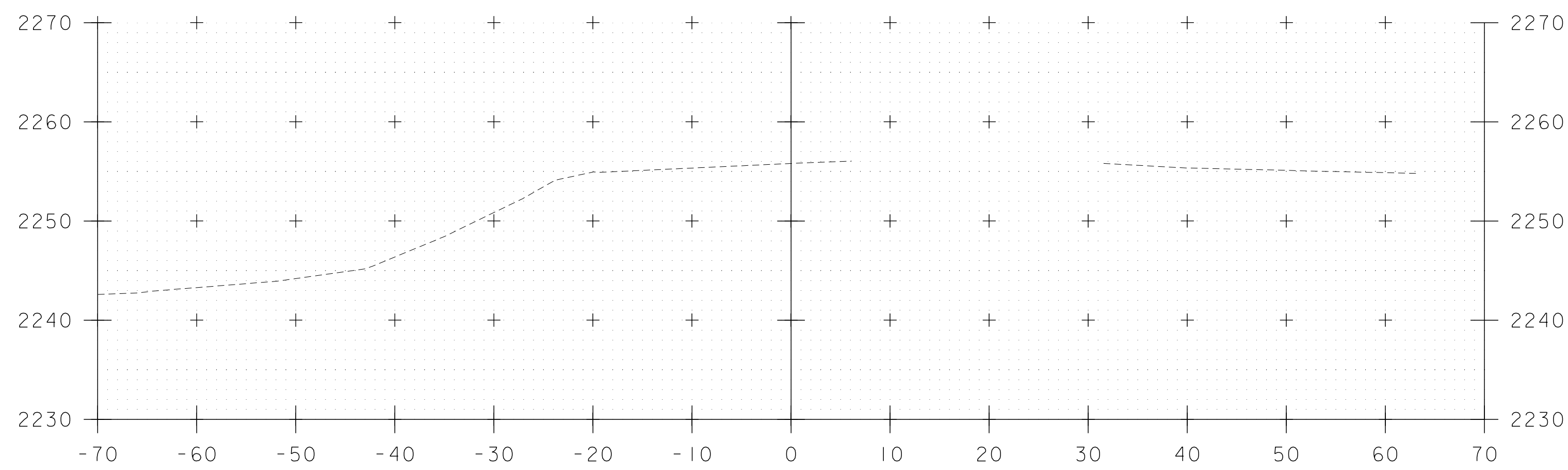




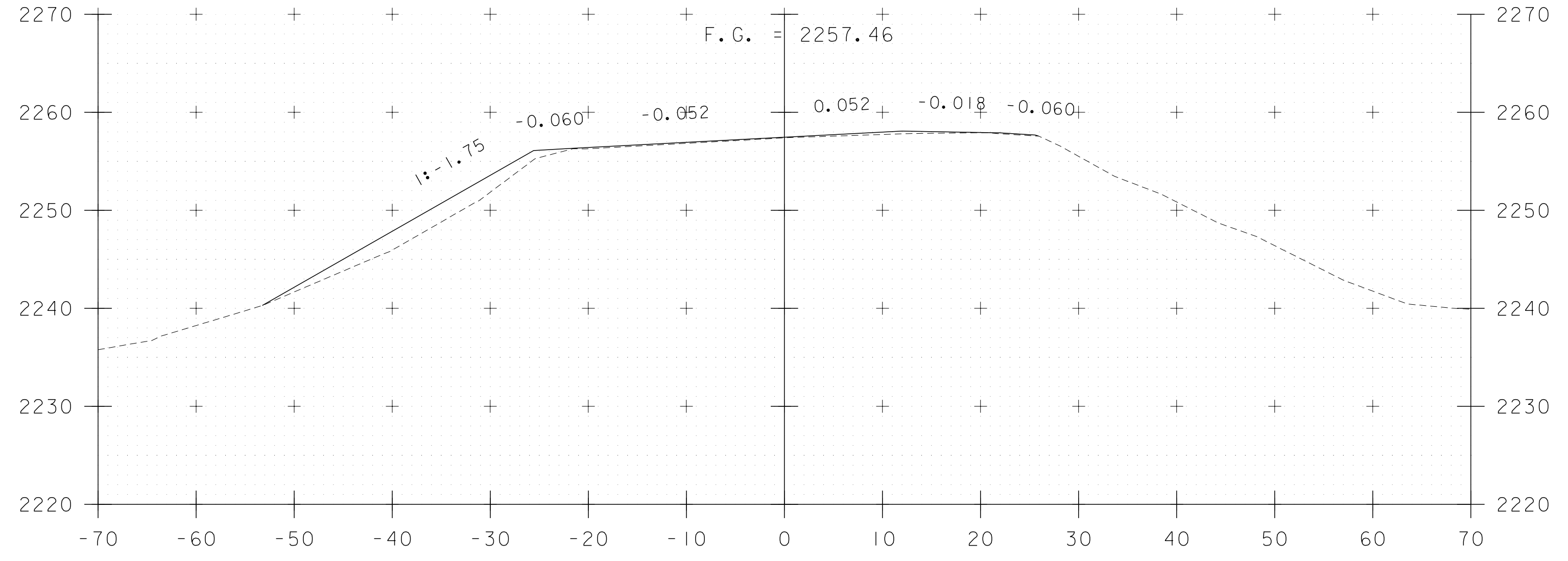
104+50



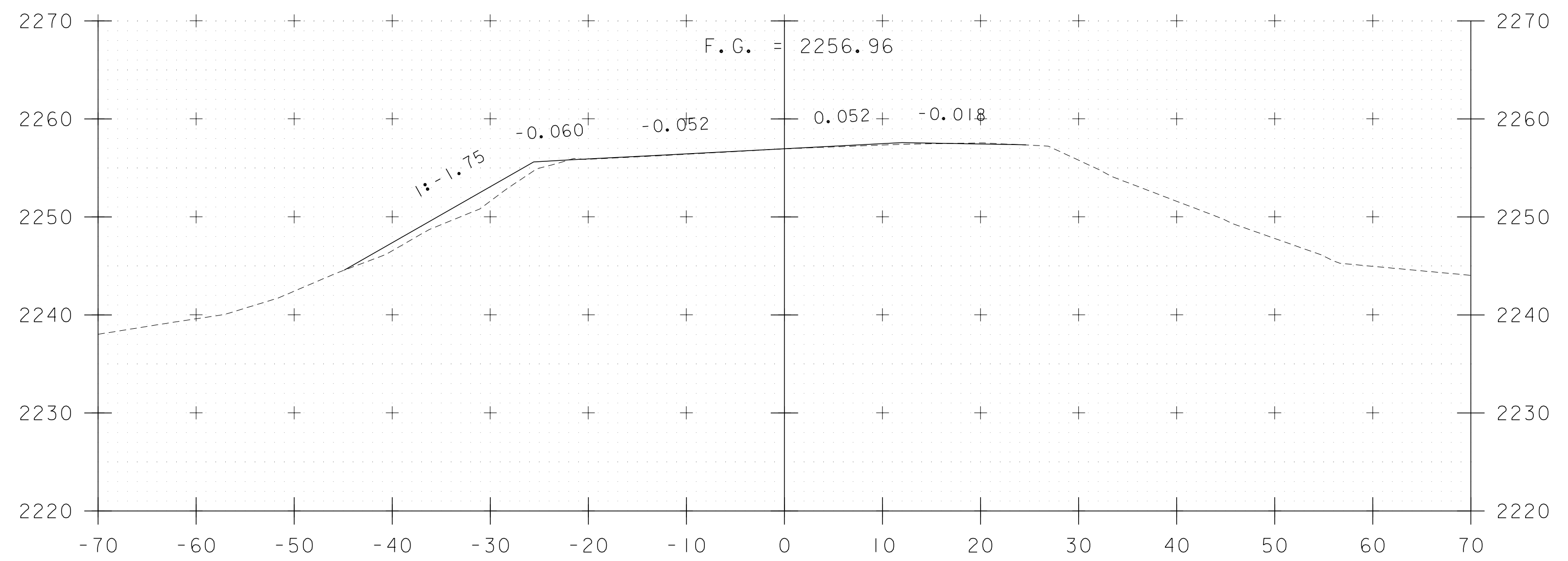
104+25  
BEGIN APPROACH



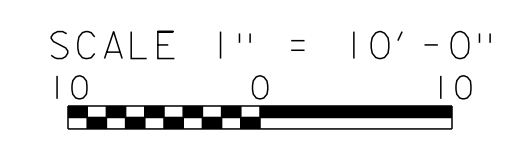
104+00



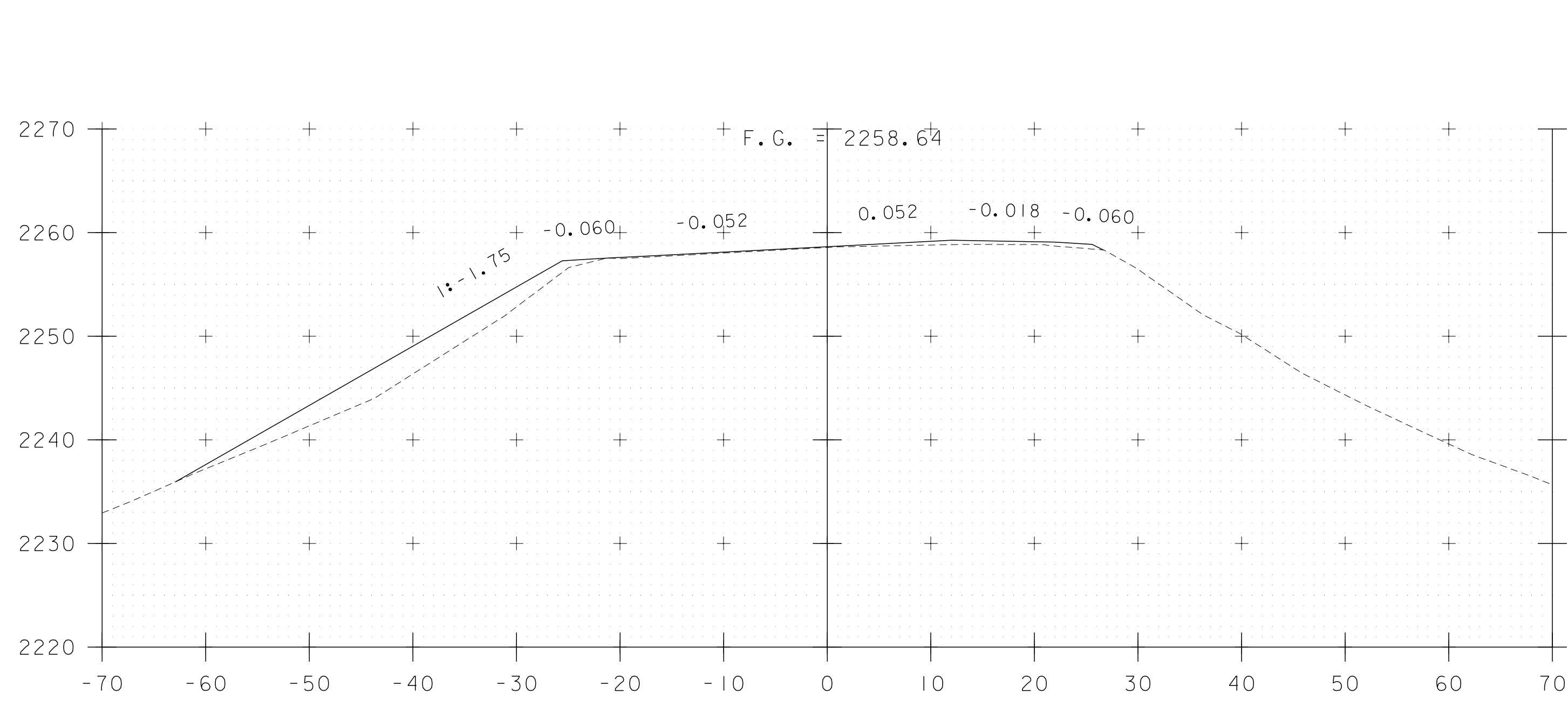
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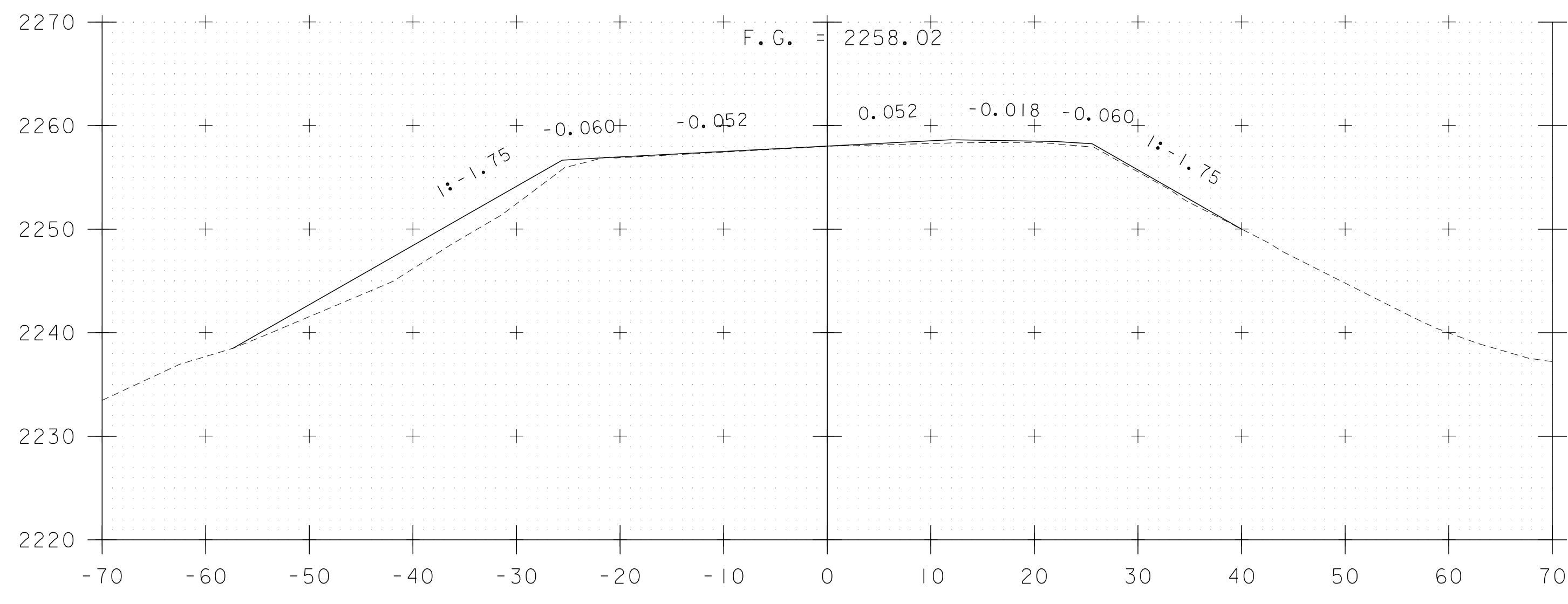
104+75  
BEGIN PROJECT



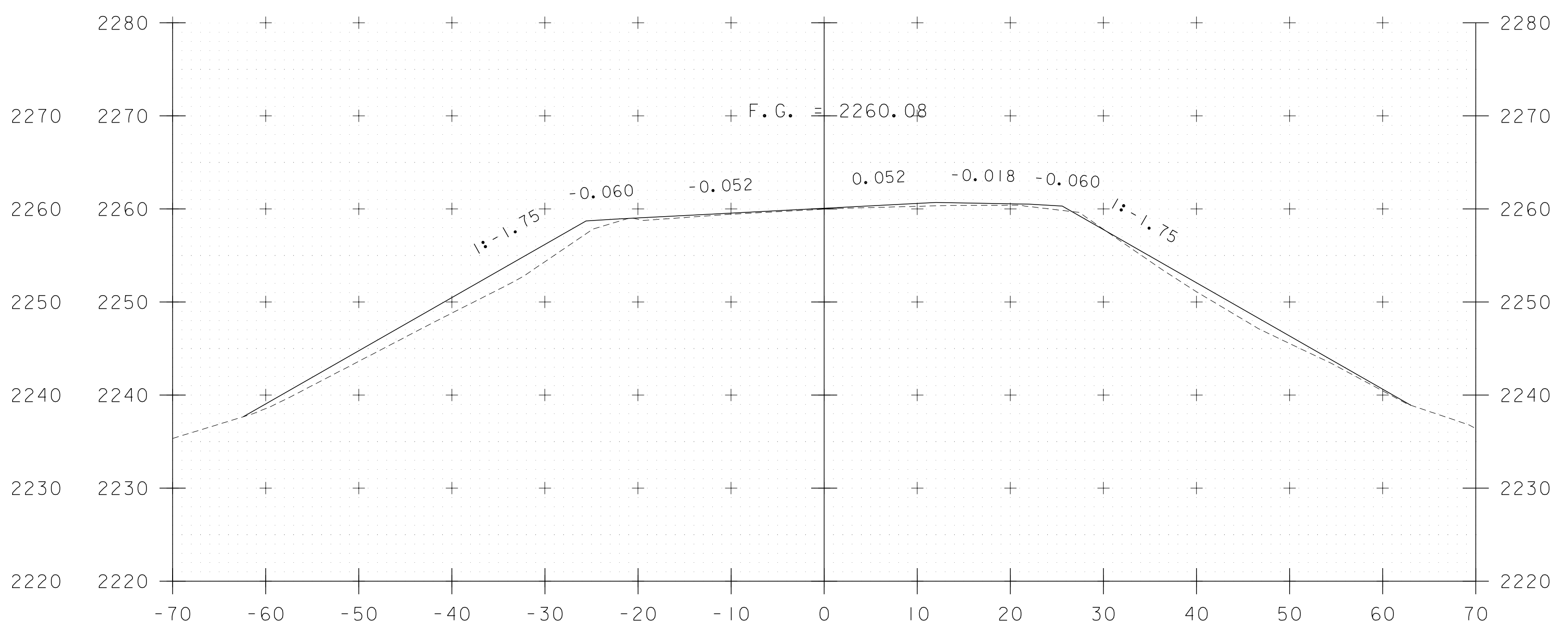
PROJECT NAME:	SEARSBURG	PLOT DATE:	4/11/2017
PROJECT NUMBER:	BF 010-1(50)	DRAWN BY:	J. MERCER
FILE NAME:	z13b332xs.dgn	CHECKED BY:	T. LEVINS
PROJECT LEADER:	T. LEVINS	SHEET	7 OF 15
DESIGNED BY:	J. MERCER		
VT9 CROSS SECTIONS I			



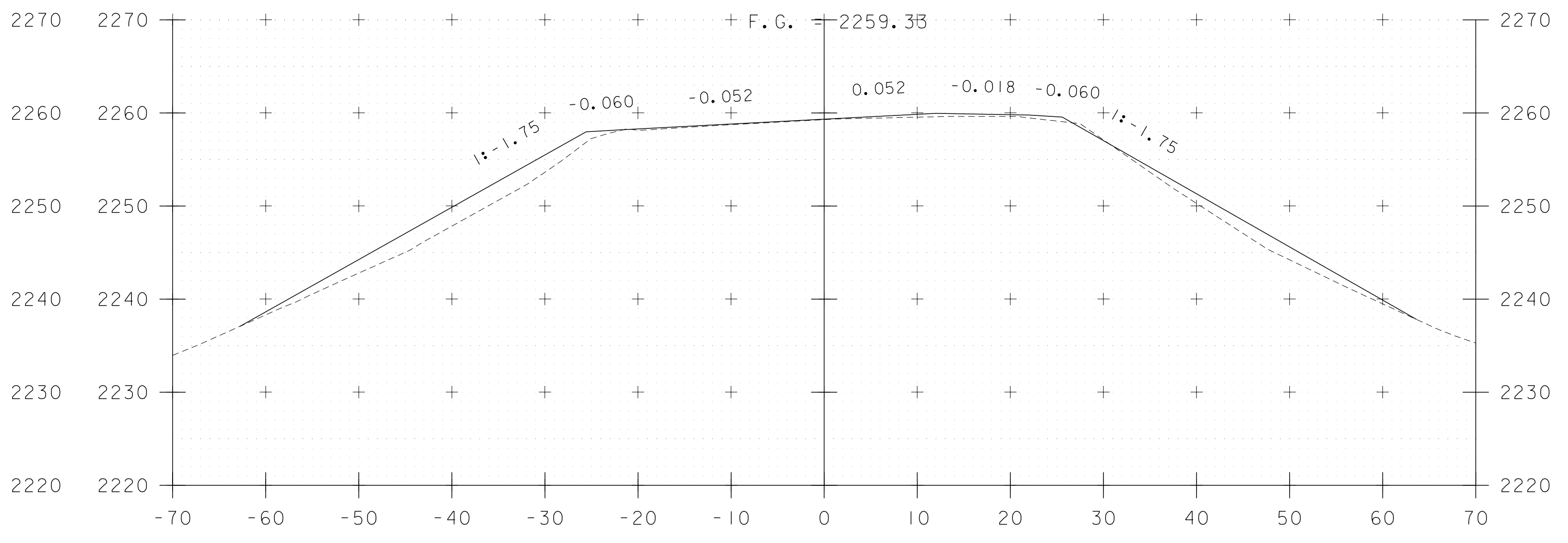
105+50



105+25



106+00



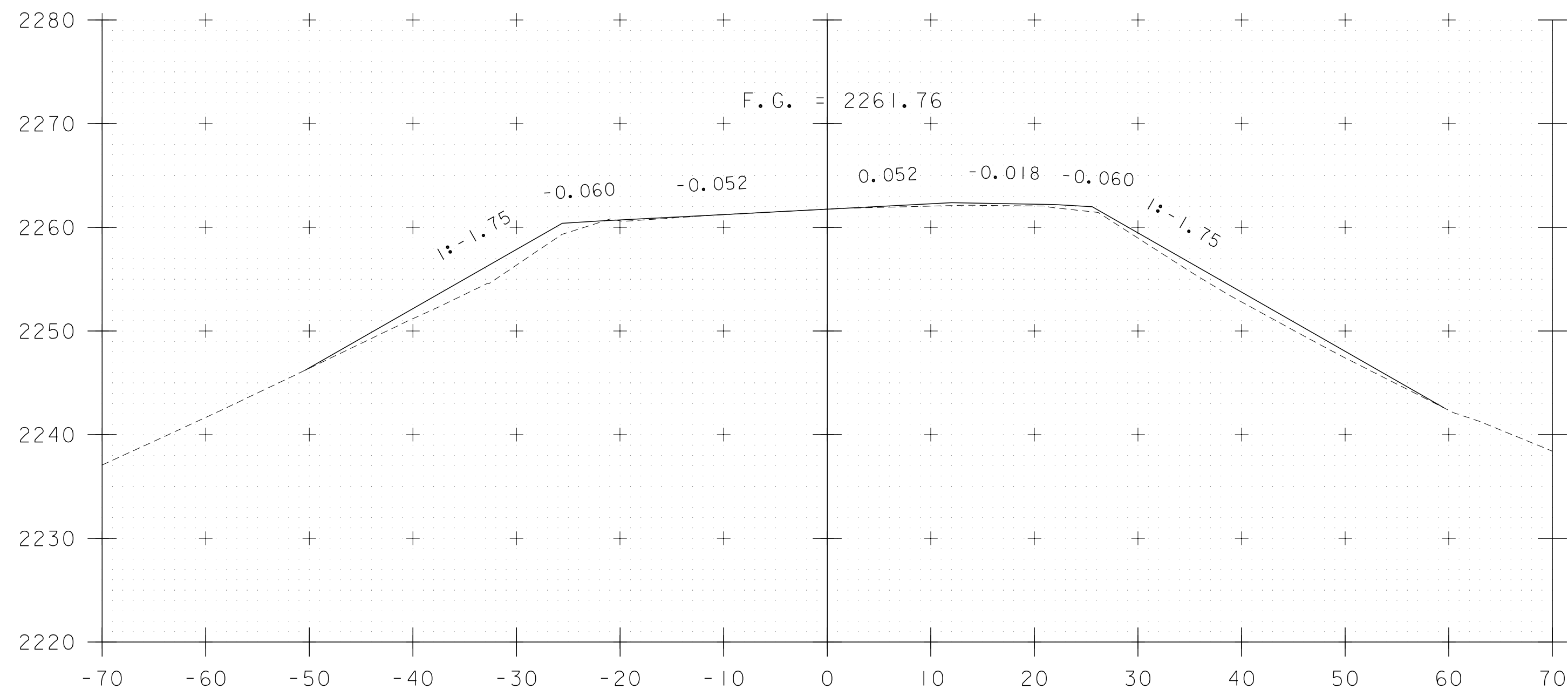
105+75

SCALE 1" = 10' - 0"

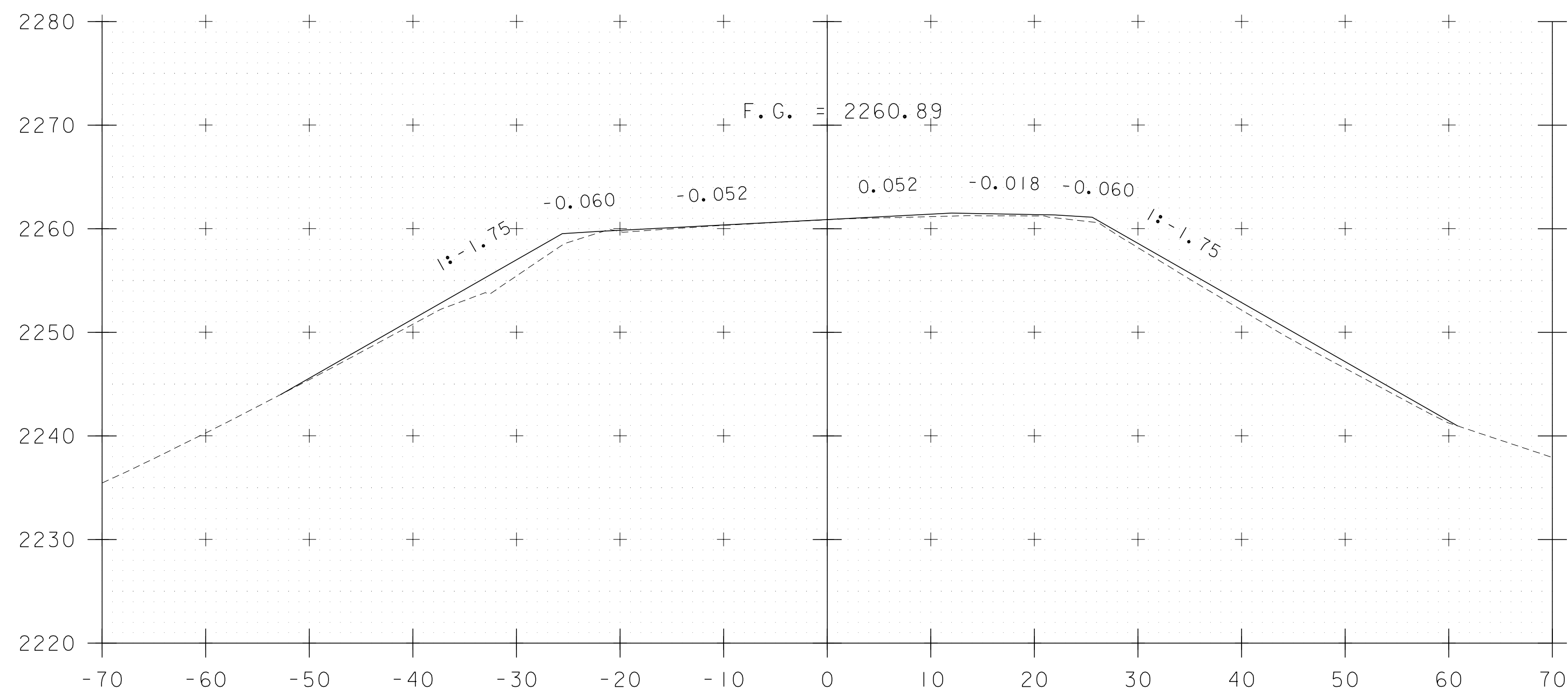


PROJECT NAME: SEARSBURG	
PROJECT NUMBER: BF 010-1(50)	
FILE NAME: z13b332xs.dgn	PLOT DATE: 4/11/2017
PROJECT LEADER: T. LEVINS	DRAWN BY: J. MERCER
DESIGNED BY: J. MERCER	CHECKED BY: T. LEVINS
VT9 CROSS SECTIONS 2	SHEET 8 OF 15

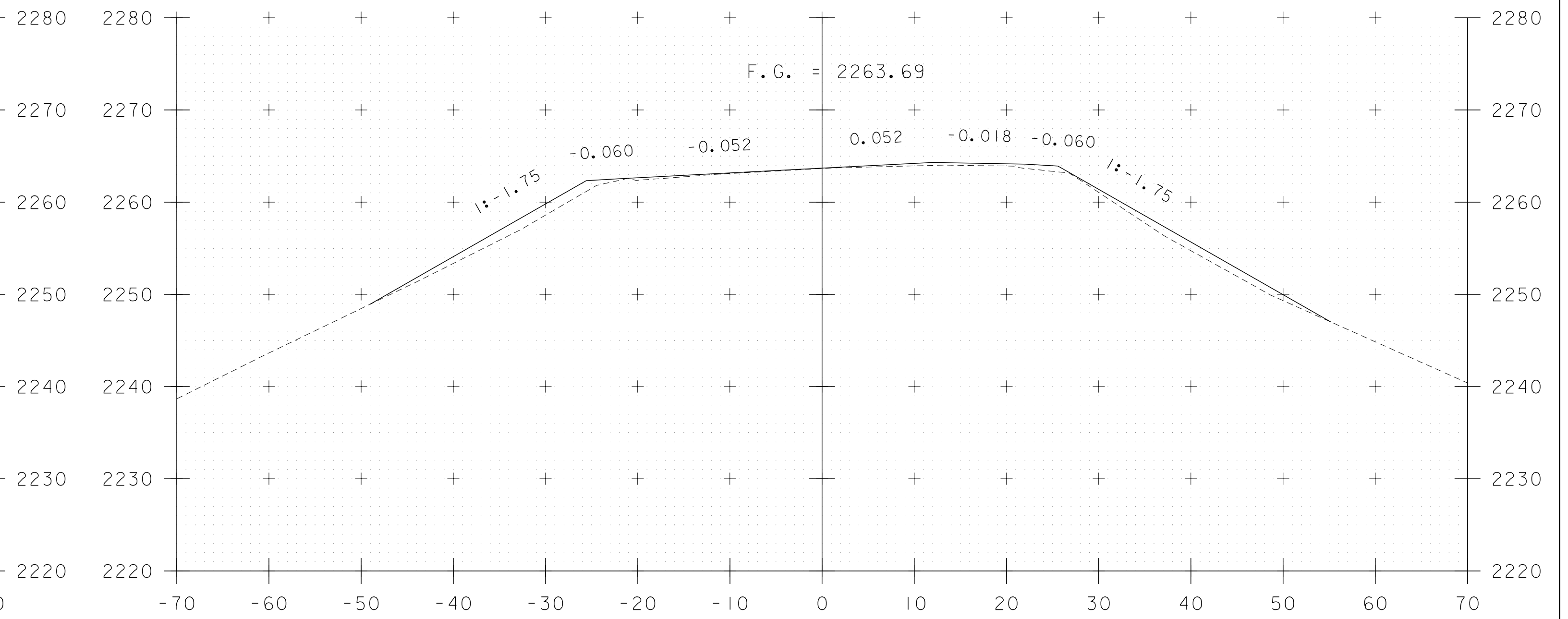




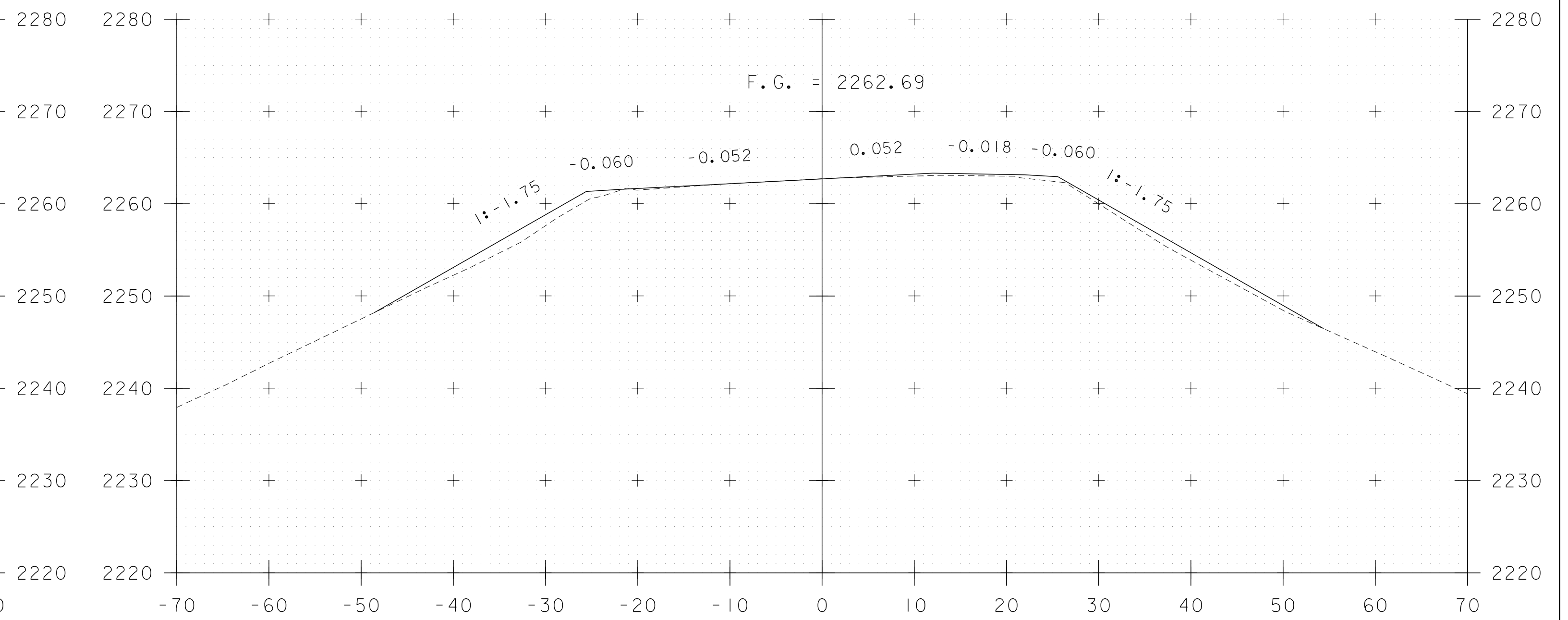
106+50



106+25



107+00

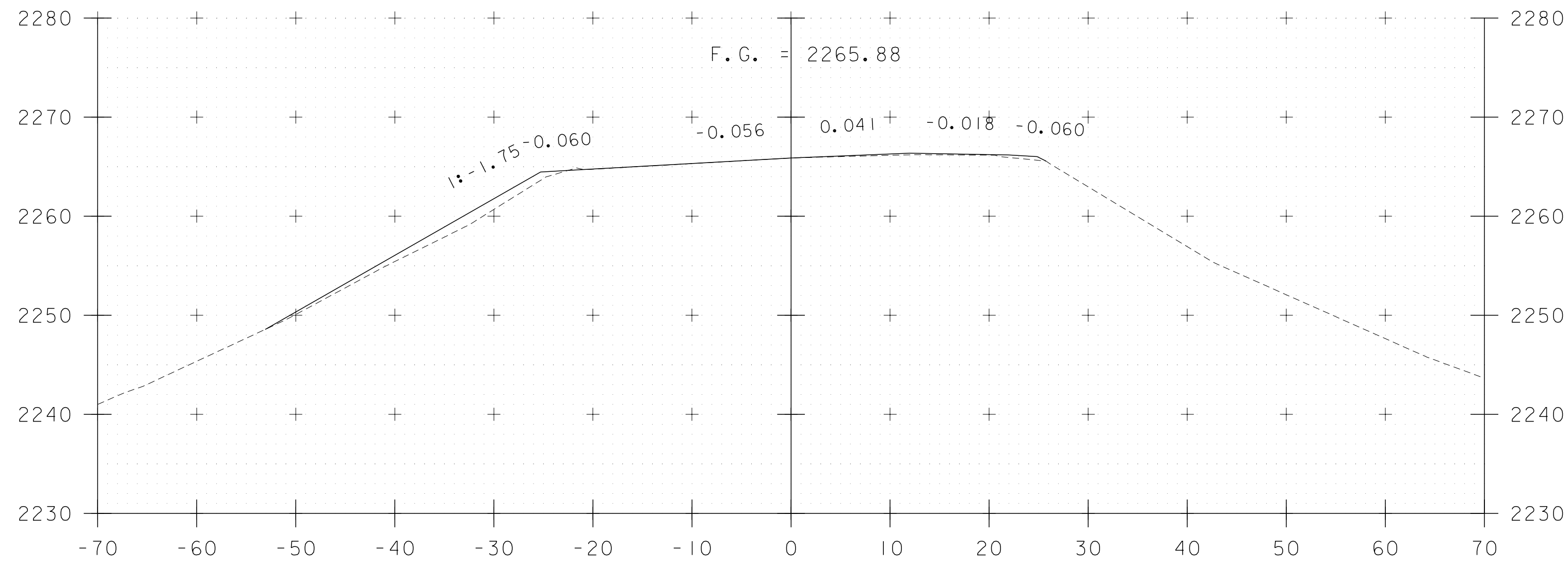


106+75

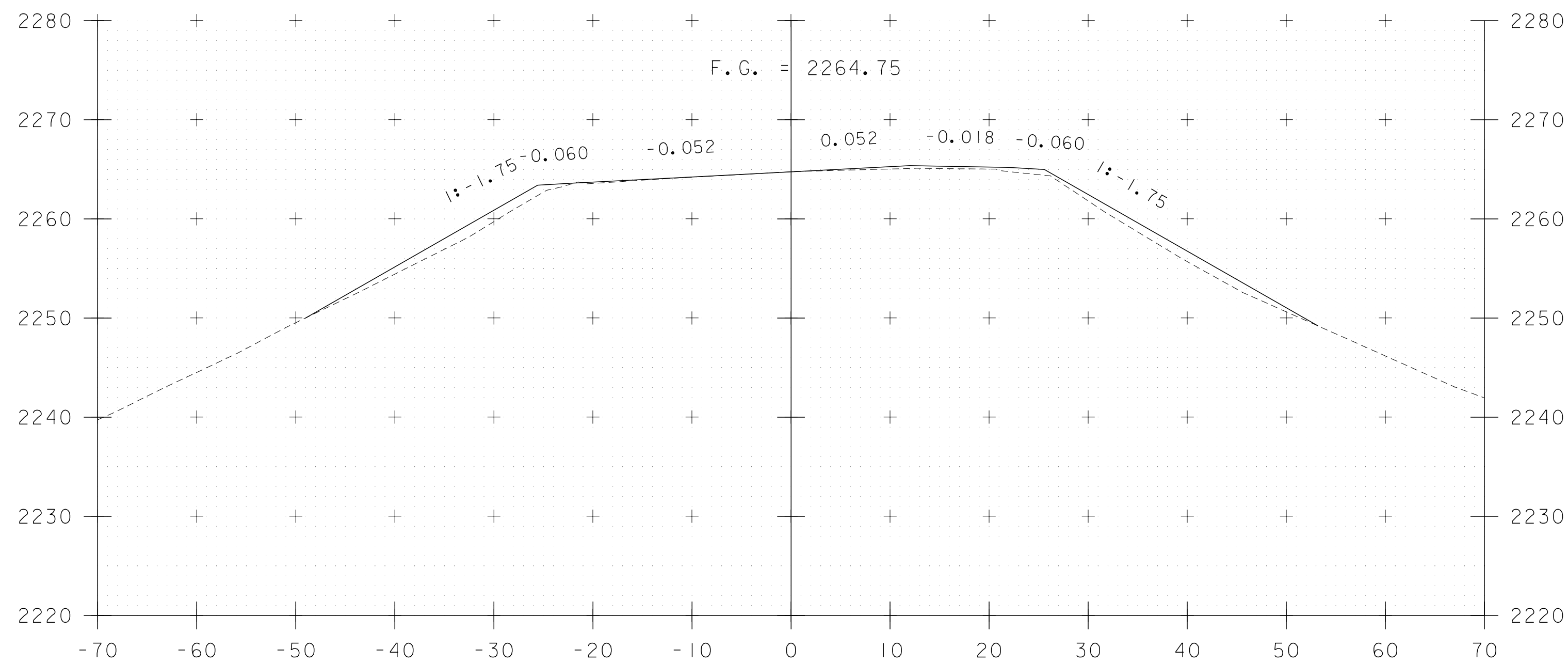
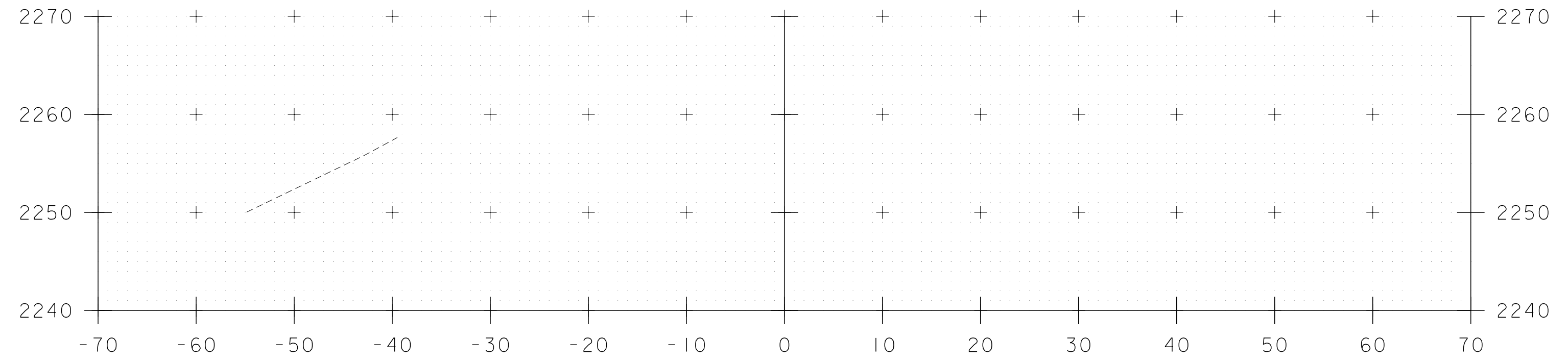
SCALE 1" = 10' - 0"



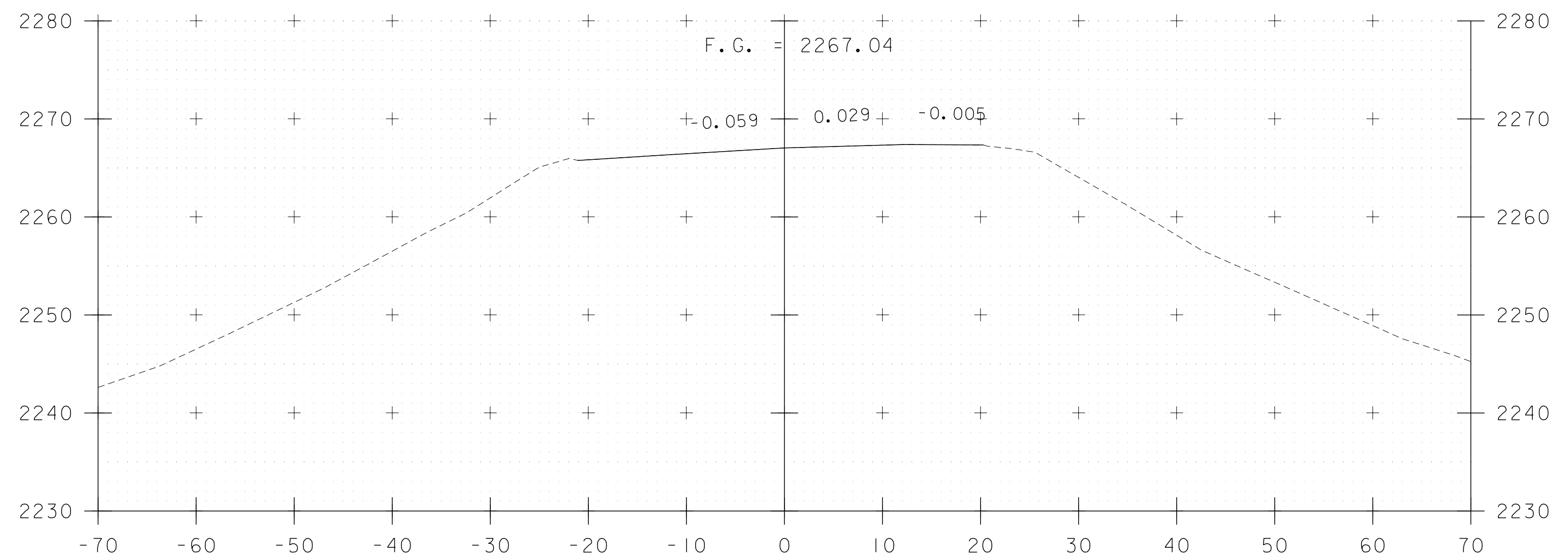
PROJECT NAME: SEARSBURG	PLOT DATE: 4/11/2017
PROJECT NUMBER: BF 010-1(50)	DRAWN BY: J. MERCER
FILE NAME: z13b332xs.dgn	CHECKED BY: T. LEVINS
PROJECT LEADER: T. LEVINS	SHEET 9 OF 15
DESIGNED BY: J. MERCER	
VT9 CROSS SECTIONS 3	



107+50



107+25  
END PROJECT



107+75  
END APPROACH

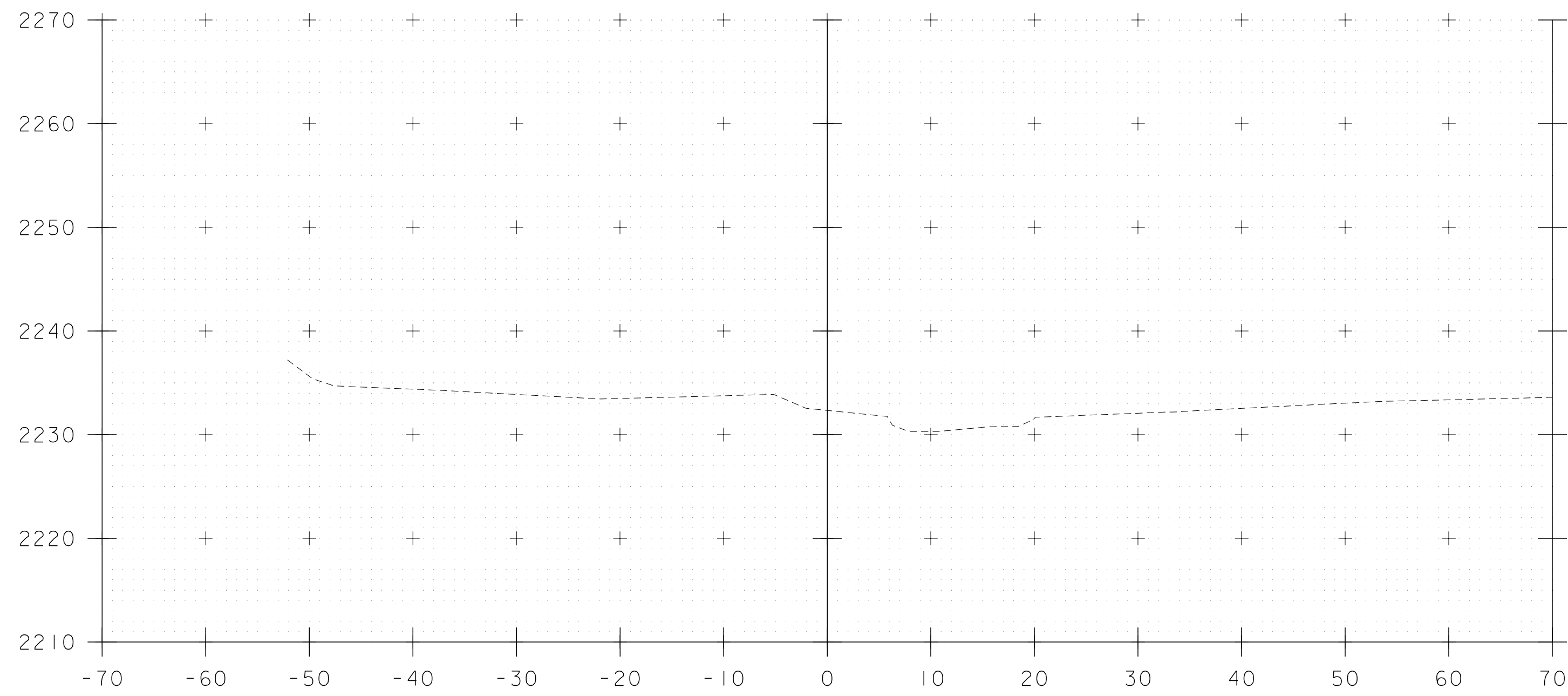
SCALE 1" = 10'-0"  
10 0 10



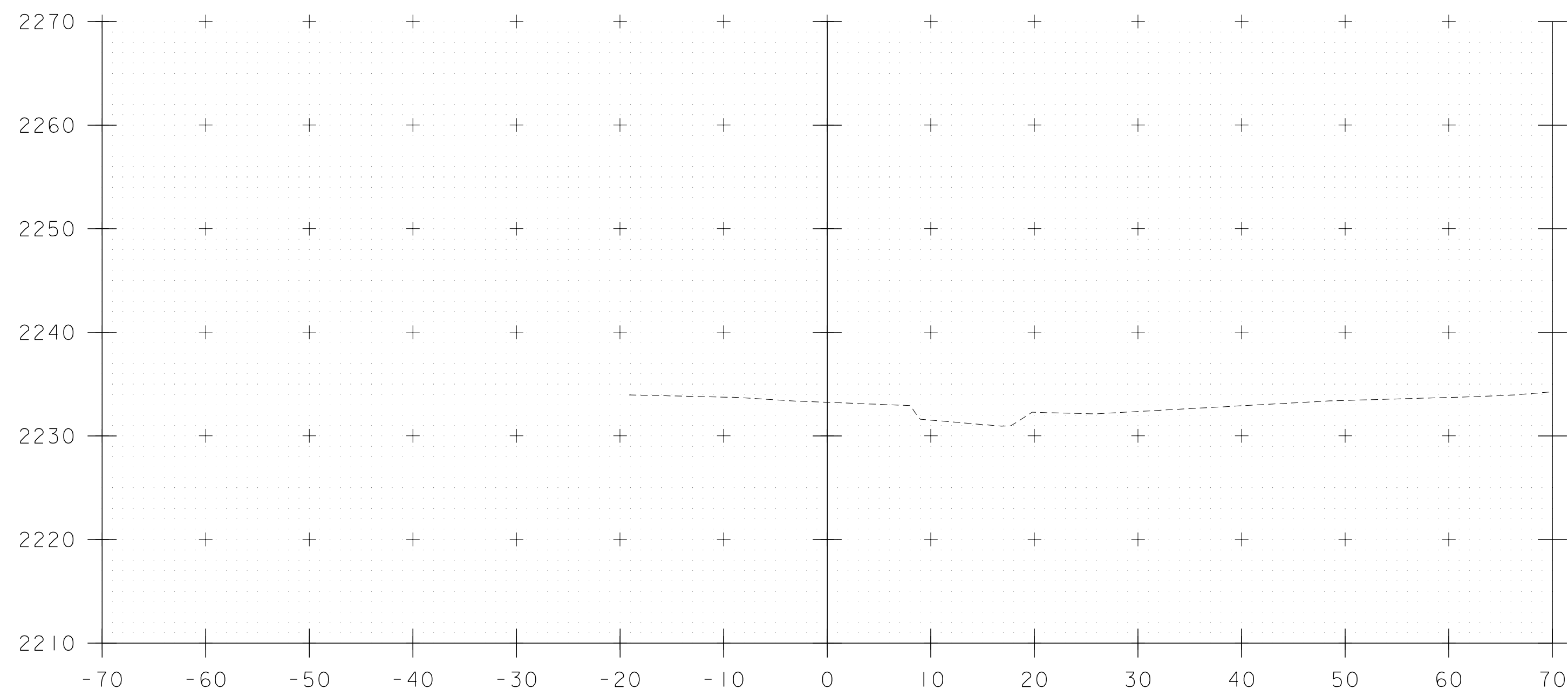
PROJECT NAME: SEARSBURG  
PROJECT NUMBER: BF 010-1(50)

FILE NAME: z13b332xs.dgn  
PROJECT LEADER: T. LEVINS  
DESIGNED BY: J. MERCER  
VT9 CROSS SECTIONS 4

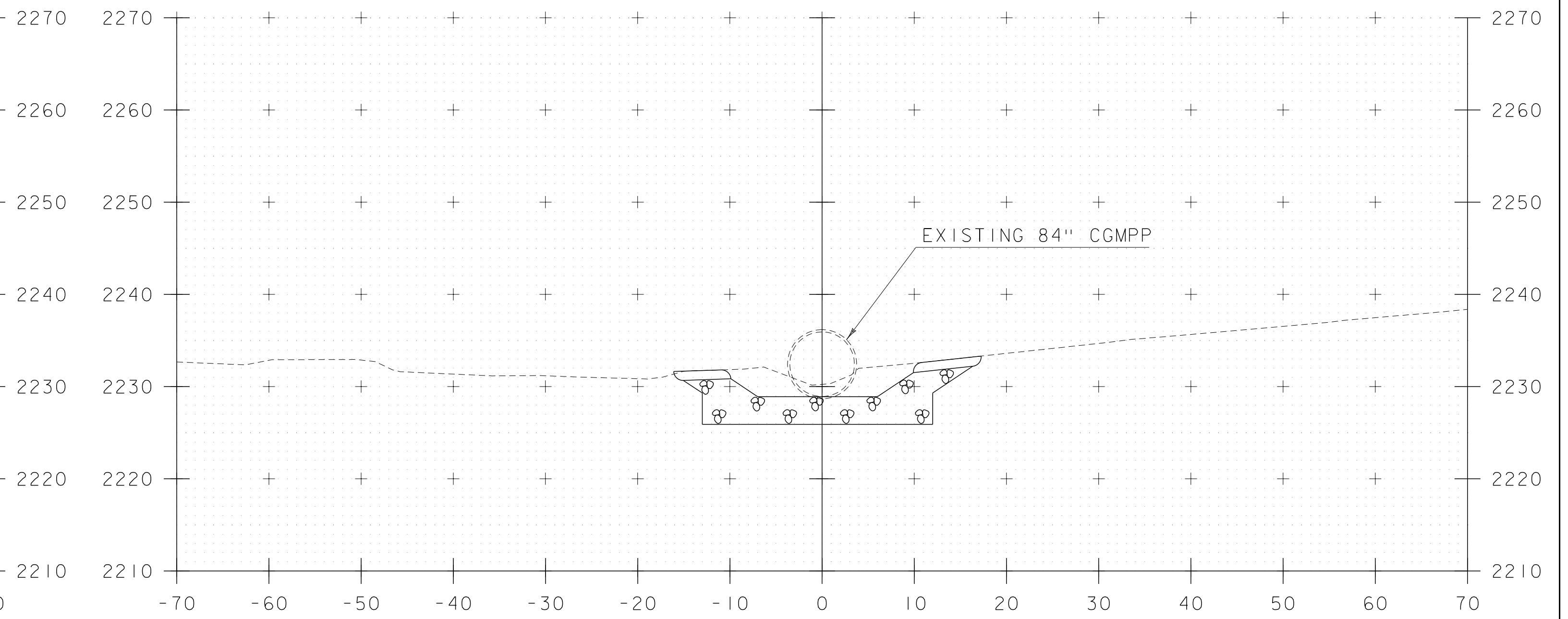
PLOT DATE: 4/11/2017  
DRAWN BY: J. MERCER  
CHECKED BY: T. LEVINS  
SHEET 10 OF 15



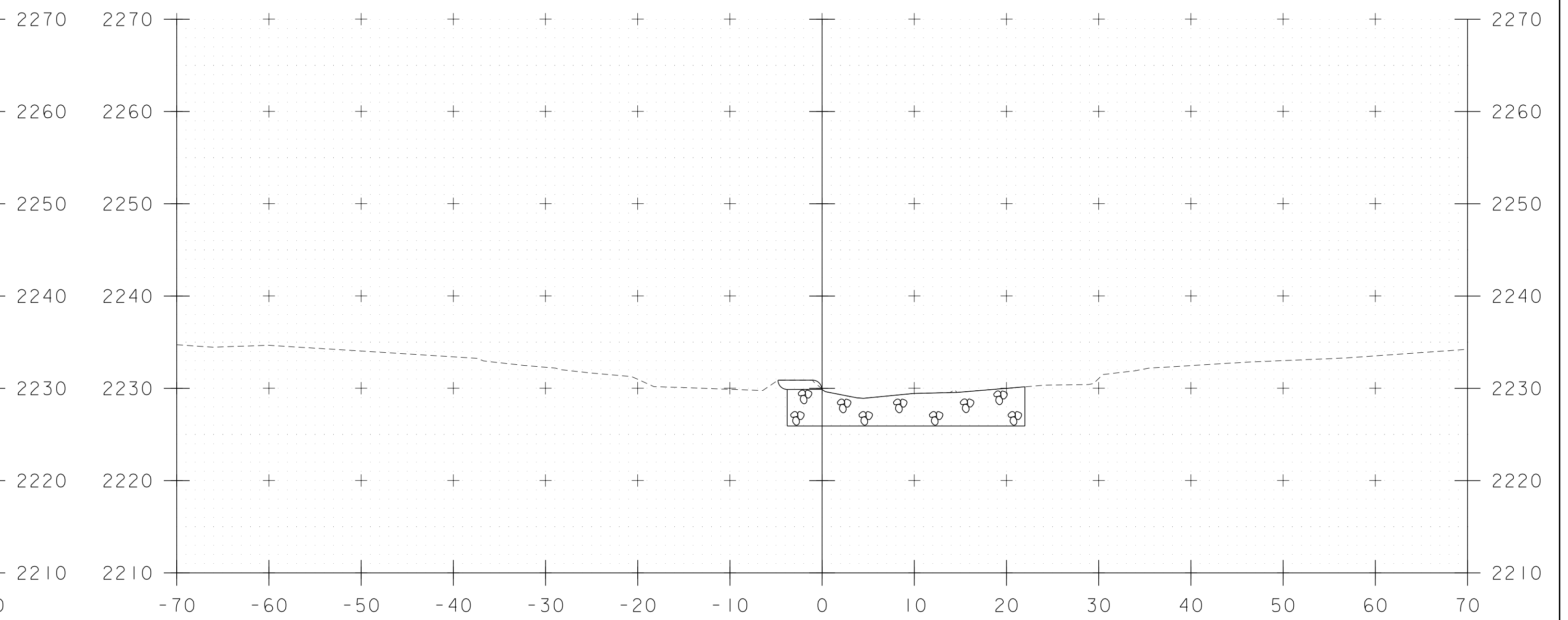
50+25



50+00



50+75

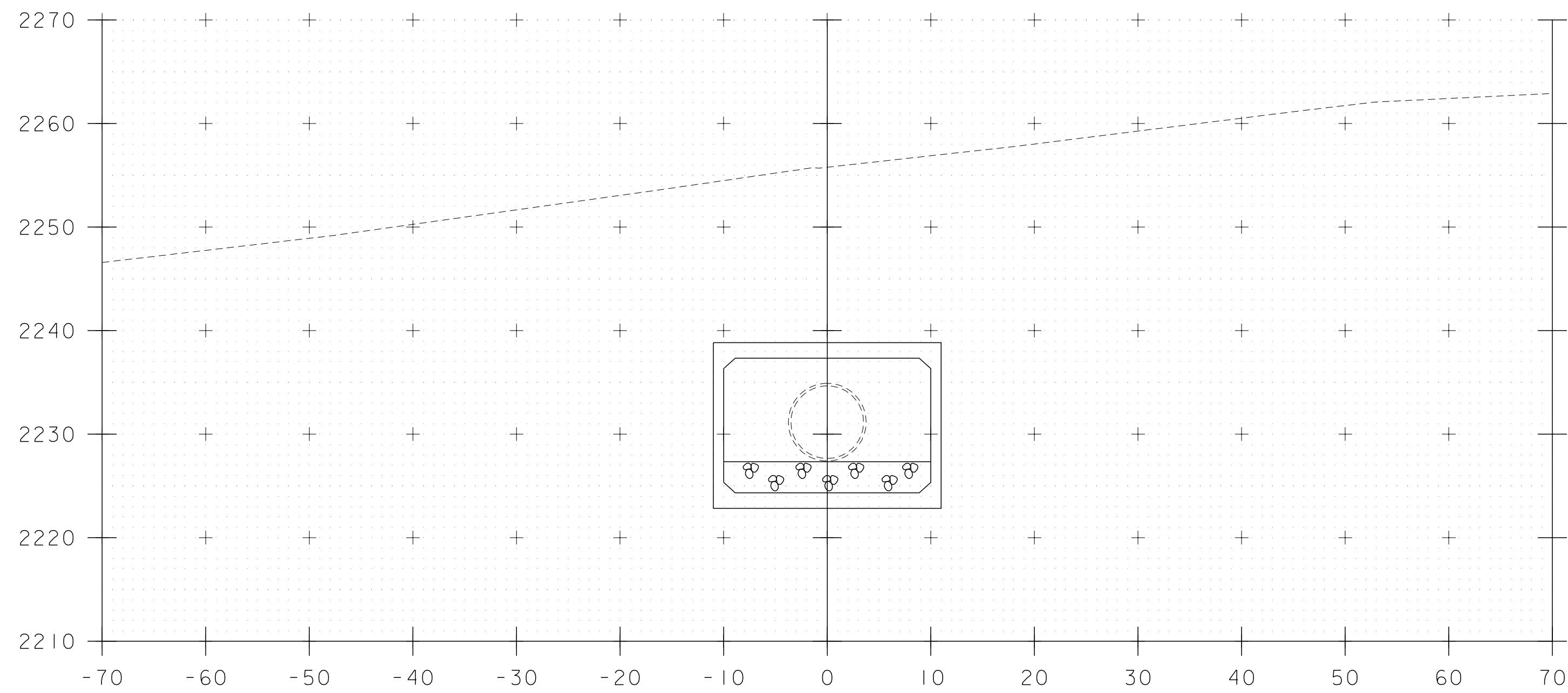


50+50

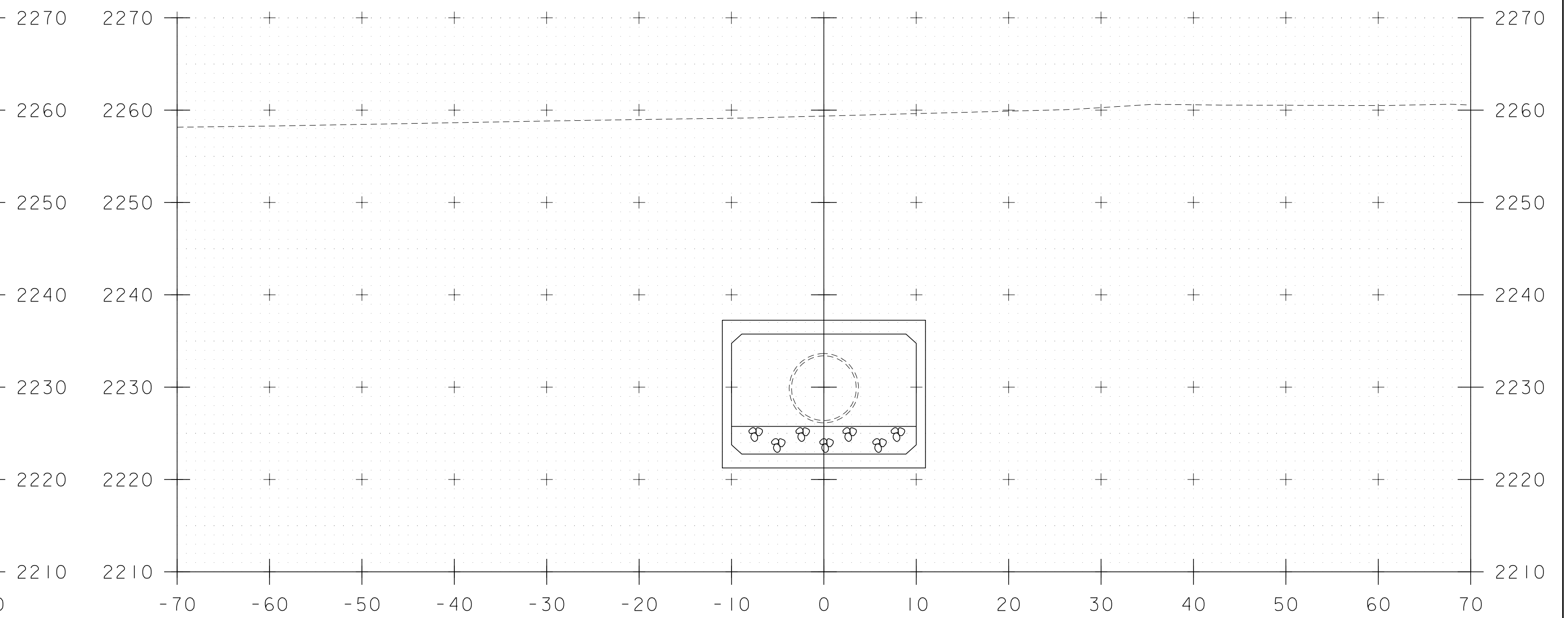
SCALE 1" = 10'-0"



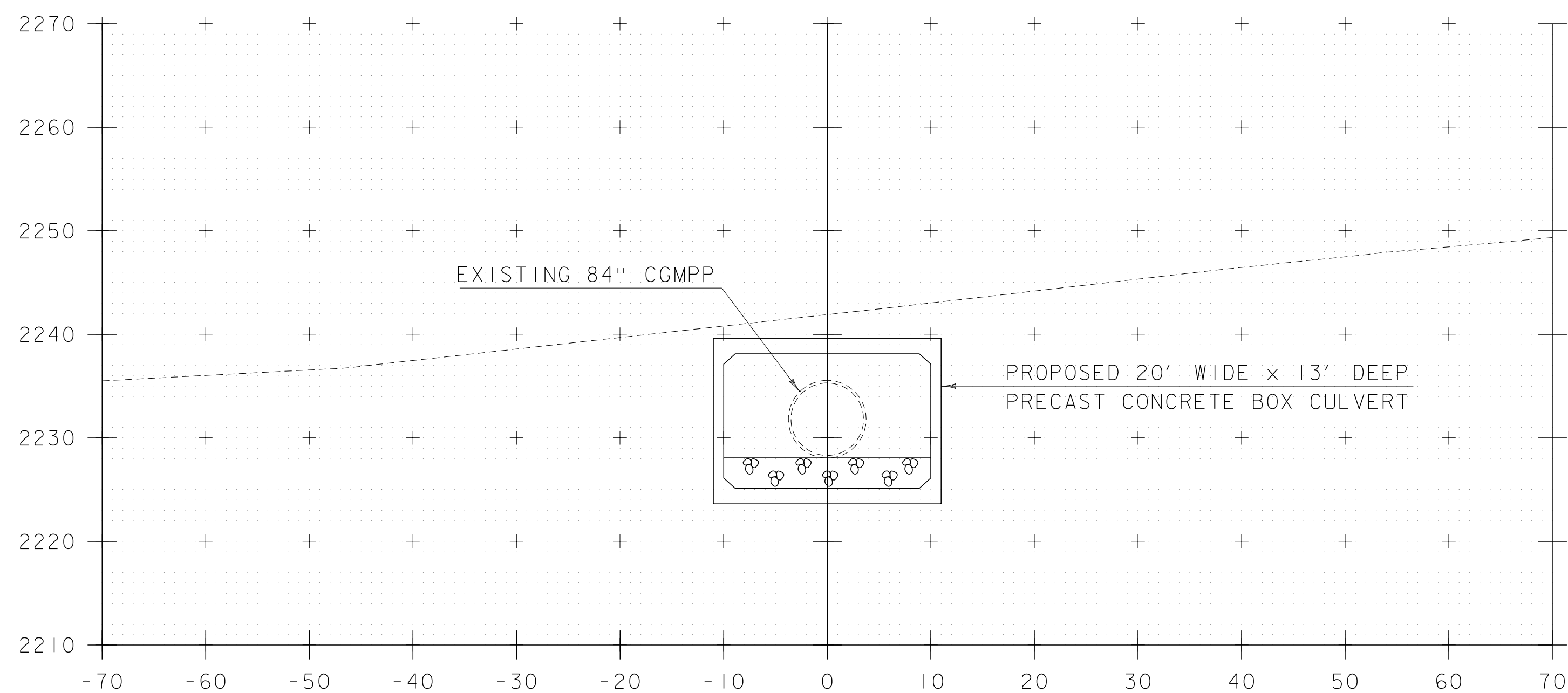
PROJECT NAME: SEARSBURG	PLOT DATE: 4/11/2017
PROJECT NUMBER: BF 010-1(50)	DRAWN BY: B. WILLIAMS
FILE NAME: z13b332xs.dgn	CHECKED BY: T. LEVINS
PROJECT LEADER: T. LEVINS	SHEET 11 OF 15
DESIGNED BY: B. WILLIAMS	
CHANNEL CROSS SECTIONS 1	



51+25



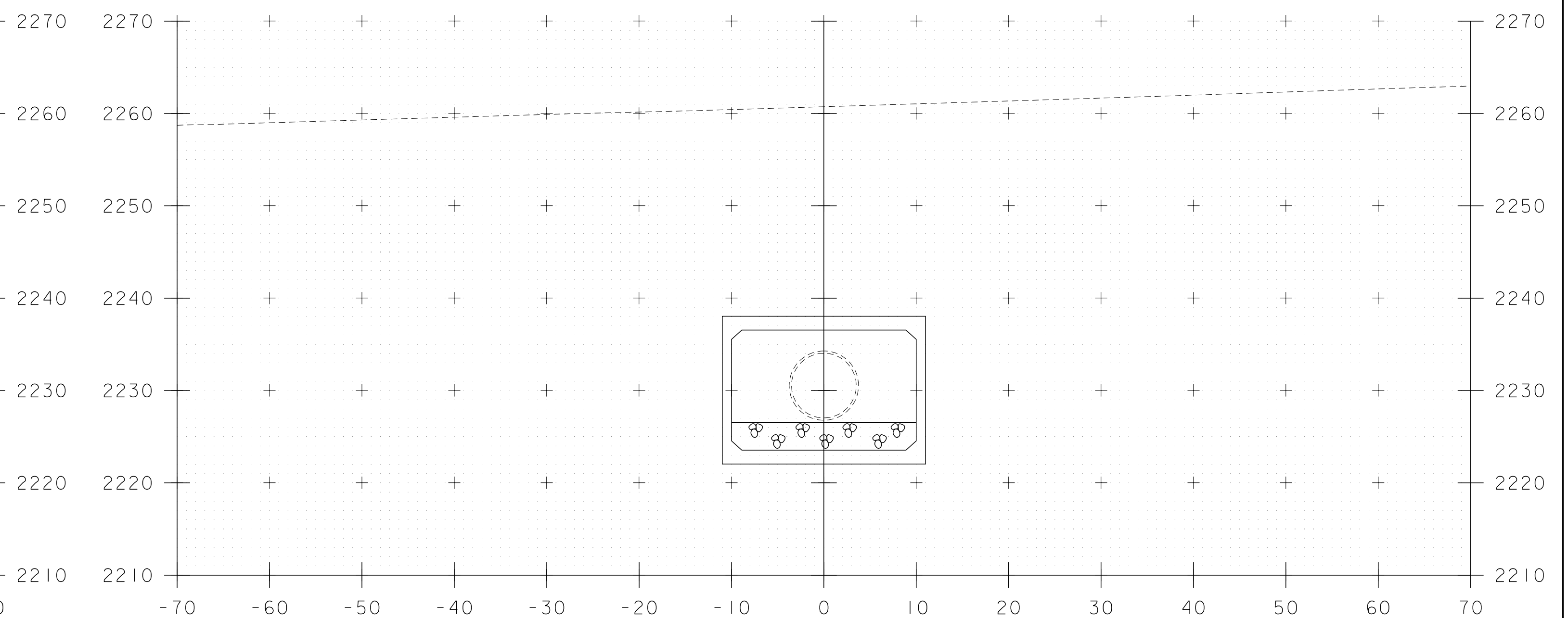
51+75



EXISTING 84" CGMPP

PROPOSED 20' WIDE x 13' DEEP  
PRECAST CONCRETE BOX CULVERT

51+00



51+50

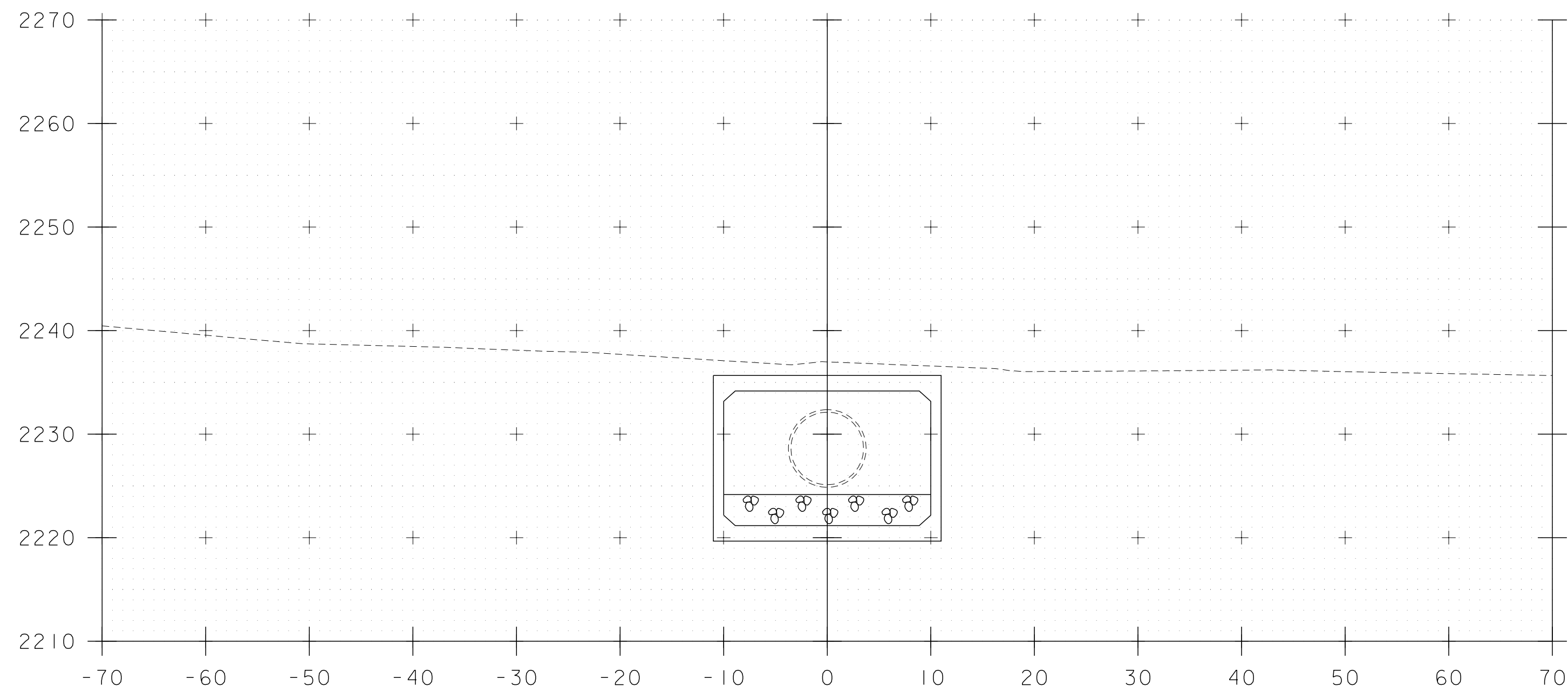
SCALE 1" = 10'-0"  
10 0 10



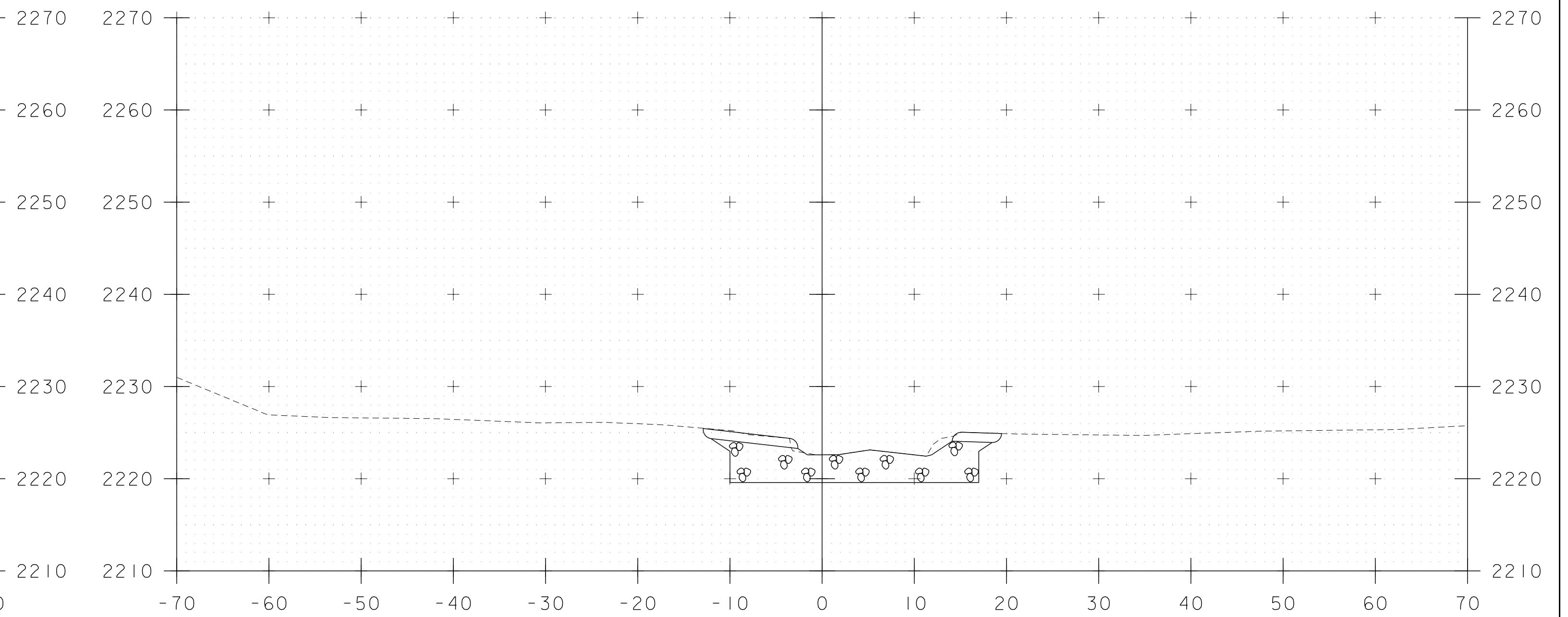
PROJECT NAME: SEARSBURG  
PROJECT NUMBER: BF 010-1(50)

FILE NAME: z13b332xs.dgn  
PROJECT LEADER: T. LEVINS  
DESIGNED BY: B. WILLIAMS  
CHANNEL CROSS SECTIONS 2

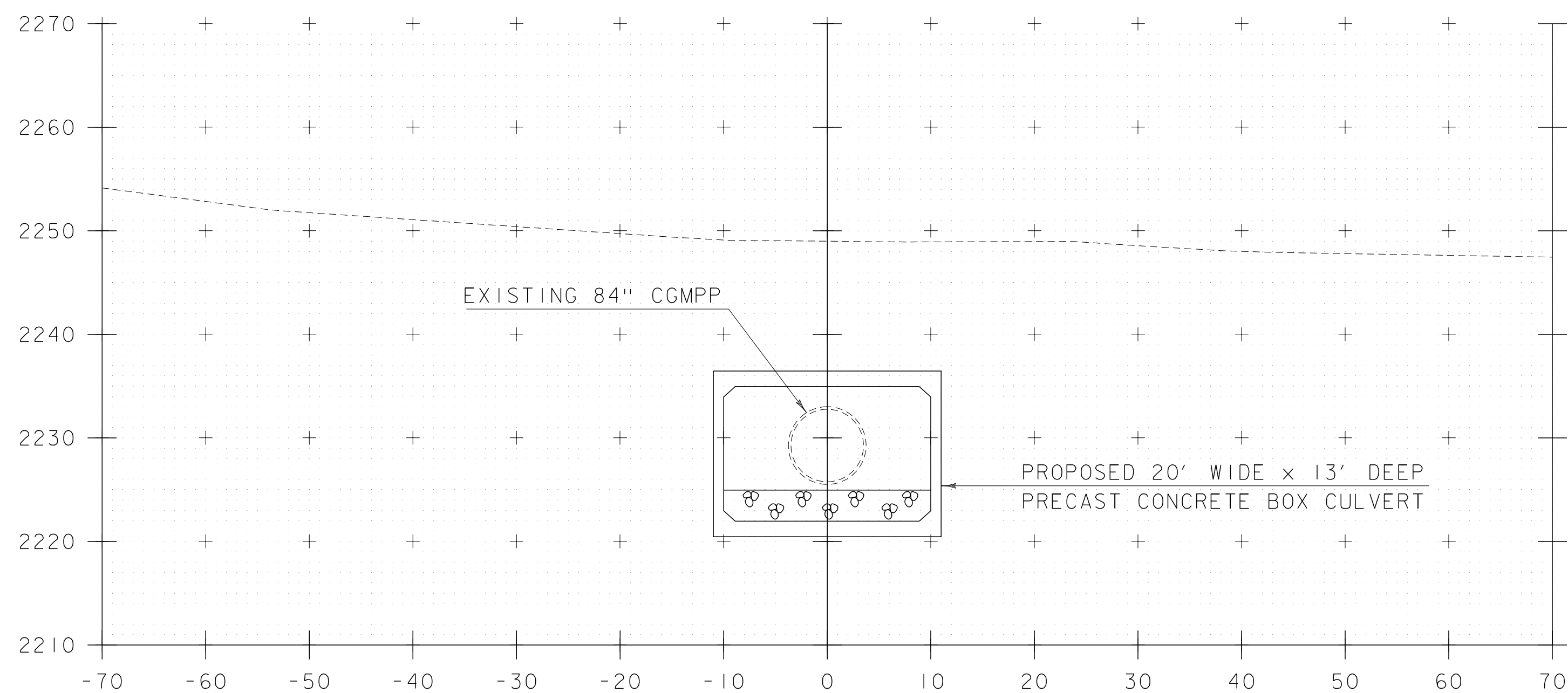
PLOT DATE: 4/11/2017  
DRAWN BY: B. WILLIAMS  
CHECKED BY: T. LEVINS  
SHEET 12 OF 15



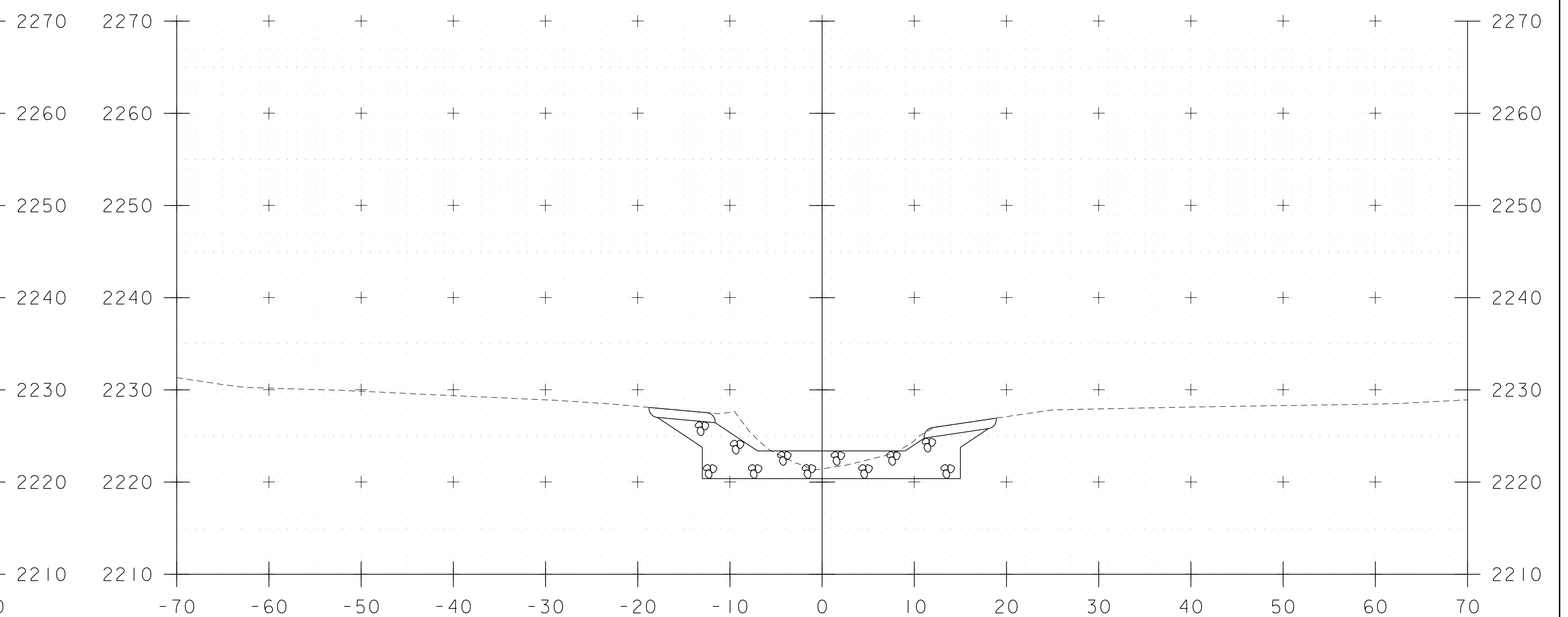
52+25



52+75



52+00

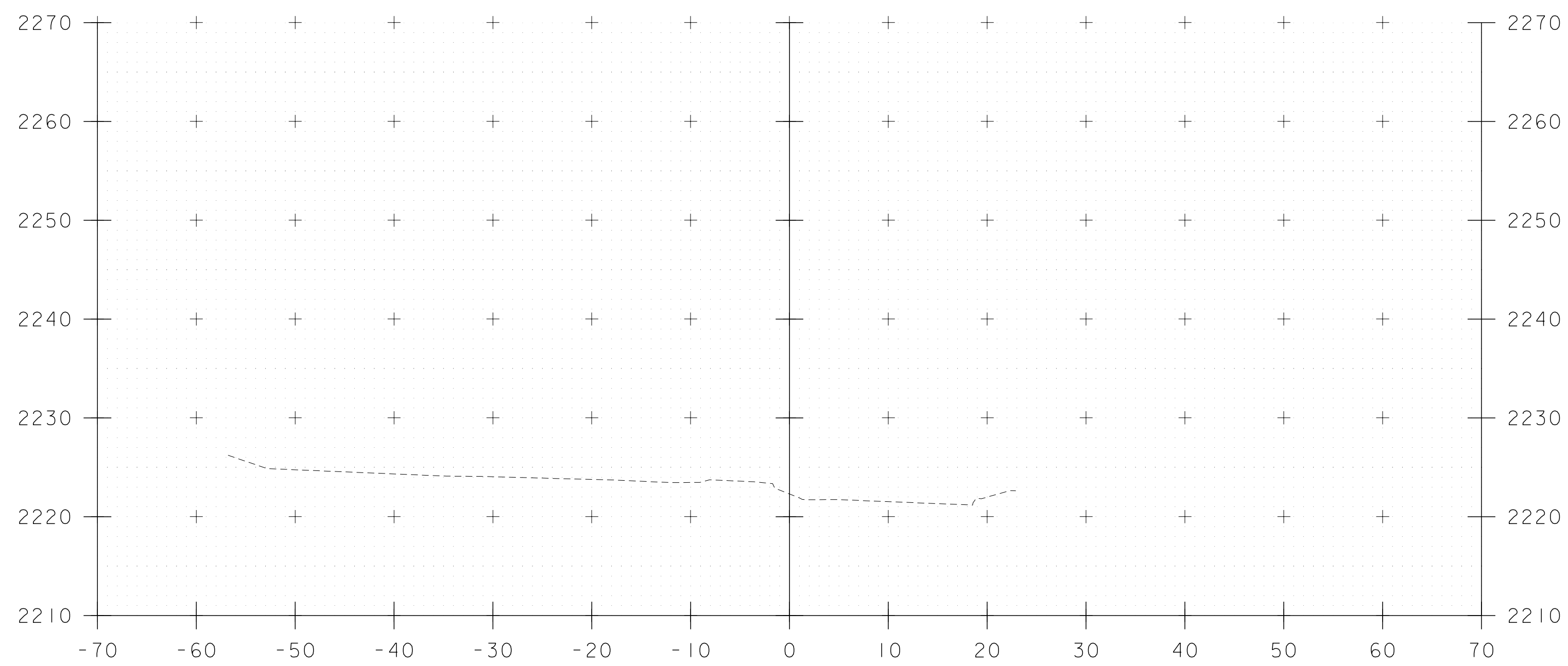


52+50


SCALE 1" = 10'-0"



PROJECT NAME: SEARSBURG	PLOT DATE: 4/11/2017
PROJECT NUMBER: BF 010-1(50)	DRAWN BY: B. WILLIAMS
FILE NAME: z13b332xs.dgn	CHECKED BY: T. LEVINS
PROJECT LEADER: T. LEVINS	SHEET 13 OF 15
DESIGNED BY: B. WILLIAMS	
CHANNEL CROSS SECTIONS 3	

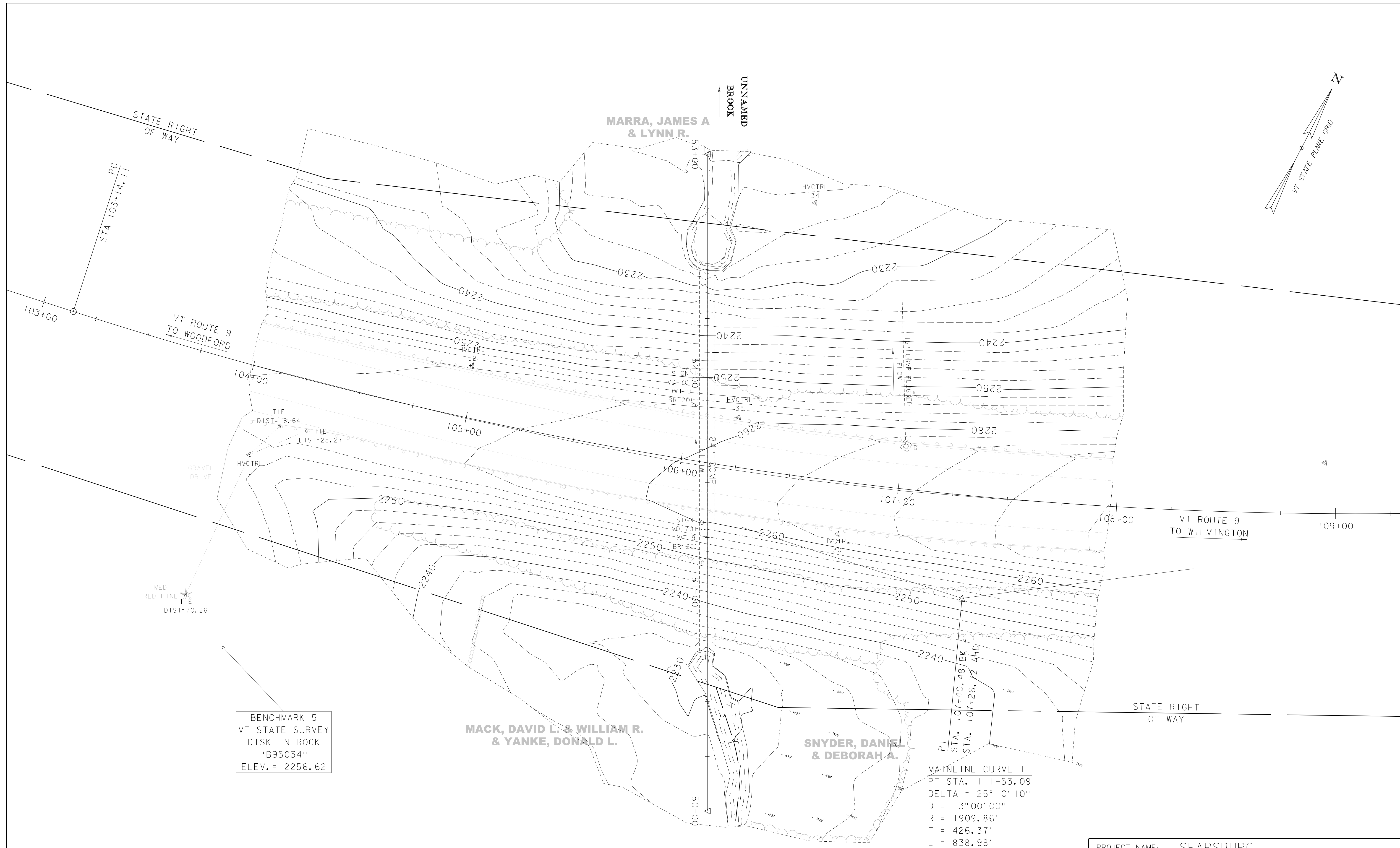
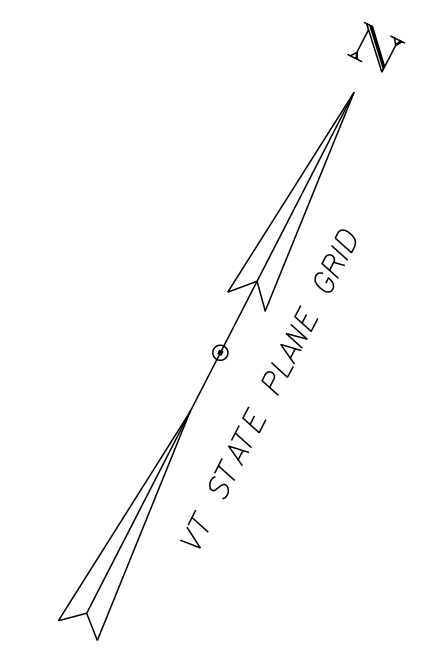


53+00

SCALE 1" = 10' - 0"  




PROJECT NAME: SEARSBURG	PLOT DATE: 4/11/2017
PROJECT NUMBER: BF 010-1(50)	DRAWN BY: B. WILLIAMS
FILE NAME: z13b332xs.dgn	CHECKED BY: T. LEVINS
PROJECT LEADER: T. LEVINS	SHEET 14 OF 15
DESIGNED BY: B. WILLIAMS	
CHANNEL CROSS SECTIONS 4	



BENCHMARK 5  
VT STATE SURVEY  
DISK IN ROCK  
"B95034"  
ELEV. = 2256.62

MAINLINE CURVE 1  
PT STA. 111+53.09  
DELTA = 25° 10' 10"  
D = 3° 00' 00"  
R = 1909.86'  
T = 426.37'  
L = 838.98'  
E = 47.01'

EXISTING CULVERT DATA  
84" CGMPP, 174' LONG  
39 SQ FT WATERWAY  
BUILT 1965  
26% AVERAGE COVER

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



PROJECT NAME: SEARSBURG	PLOT DATE: 4/11/2014
PROJECT NUMBER: BF 010-1(50)	DRAWN BY: B. WILLIAMS
FILE NAME: z13b332resource.dgn	CHECKED BY: T. LEVINS
PROJECT LEADER: T. LEVINS	SHEET 15 OF 15
DESIGNED BY: B. WILLIAMS	
RESOURCE SITE PLAN	