

REVIEWER NOTES

1. THE TOWN WILL BE RESPONSIBLE FOR SELECTING, SIGNING, AND MAINTAINING ANY DETOUR ROUTES USED DURING CONSTRUCTION.
2. UTILITIES WILL BE RELOCATED PRIOR TO THE START OF CONSTRUCTION.
3. ADDITIONAL TEMPORARY AND PERMANENT ROW WILL BE NEEDED FOR THIS PROJECT.
4. IT IS ANTICIPATED THAT A CAUSEWAY WILL NEED TO BE CONSTRUCTED IN THE RIVER STARTING AT THE SOUTHWEST CORNER OF THE BRIDGE AND EXTENDING SLIGHTLY EAST OF THE EXISTING PIER.
5. A SIMPLIFIED PAVEMENT DESIGN HAS BEEN DONE FOR THIS PROJECT.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

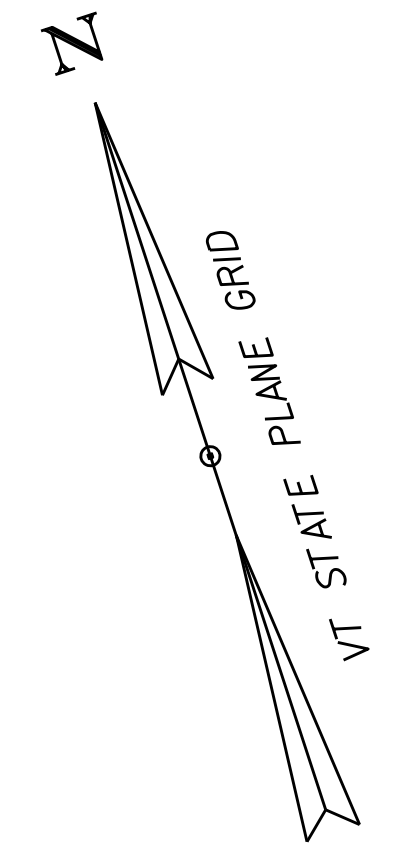
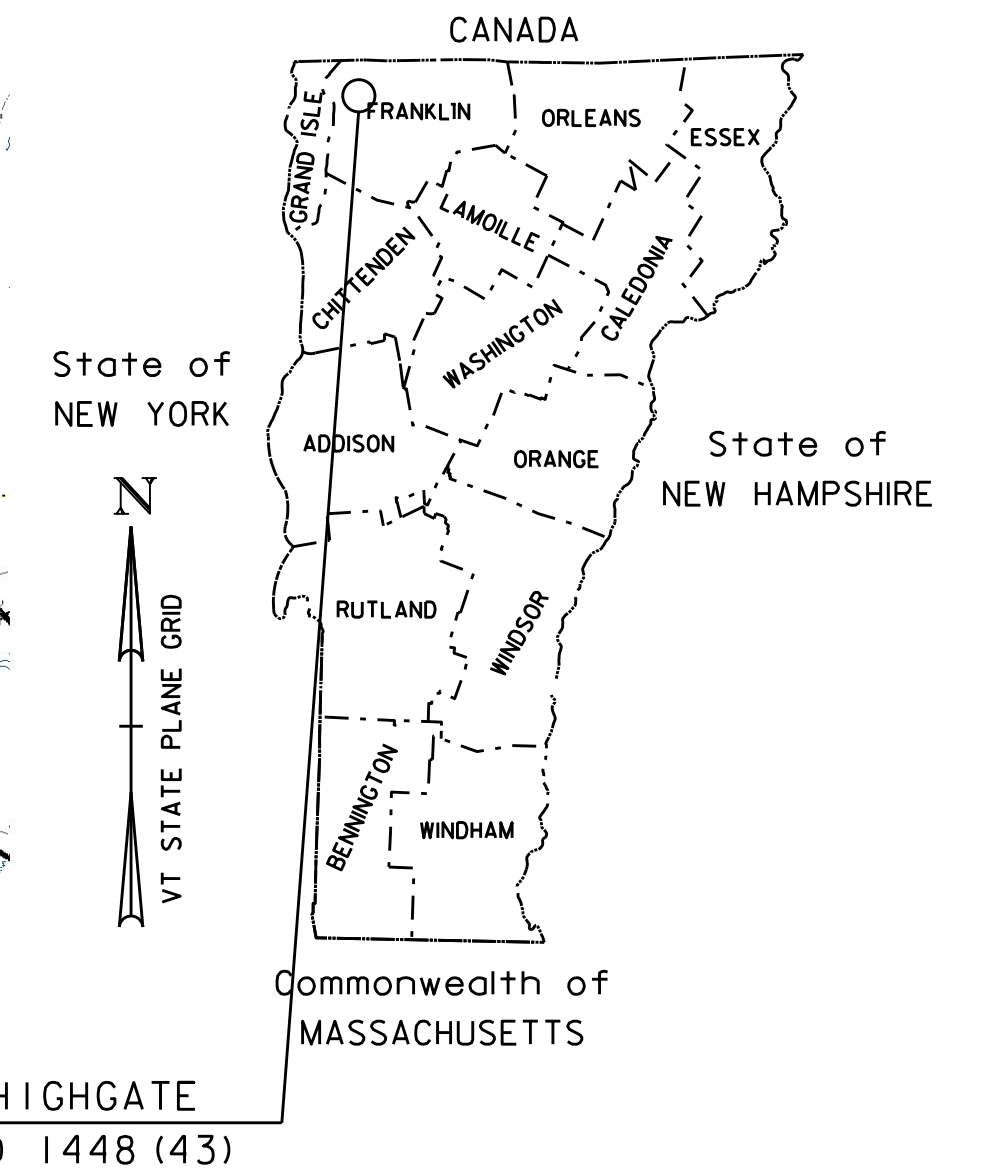
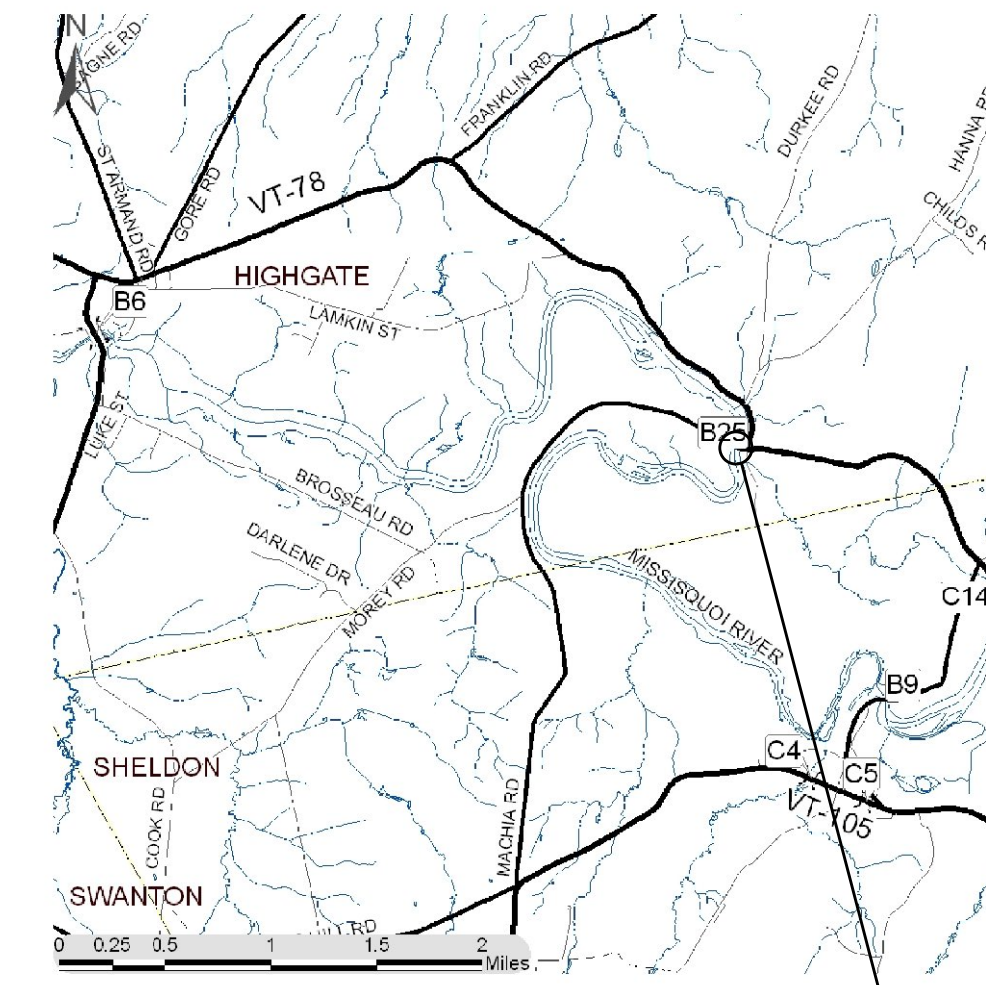
VILLAGE OF HIGHGATE
COUNTY OF FRANKLIN

ROUTE NO : TOWN HIGHWAY 4. CLASS 2 LOCAL TOWN ROAD BRIDGE NO : 25

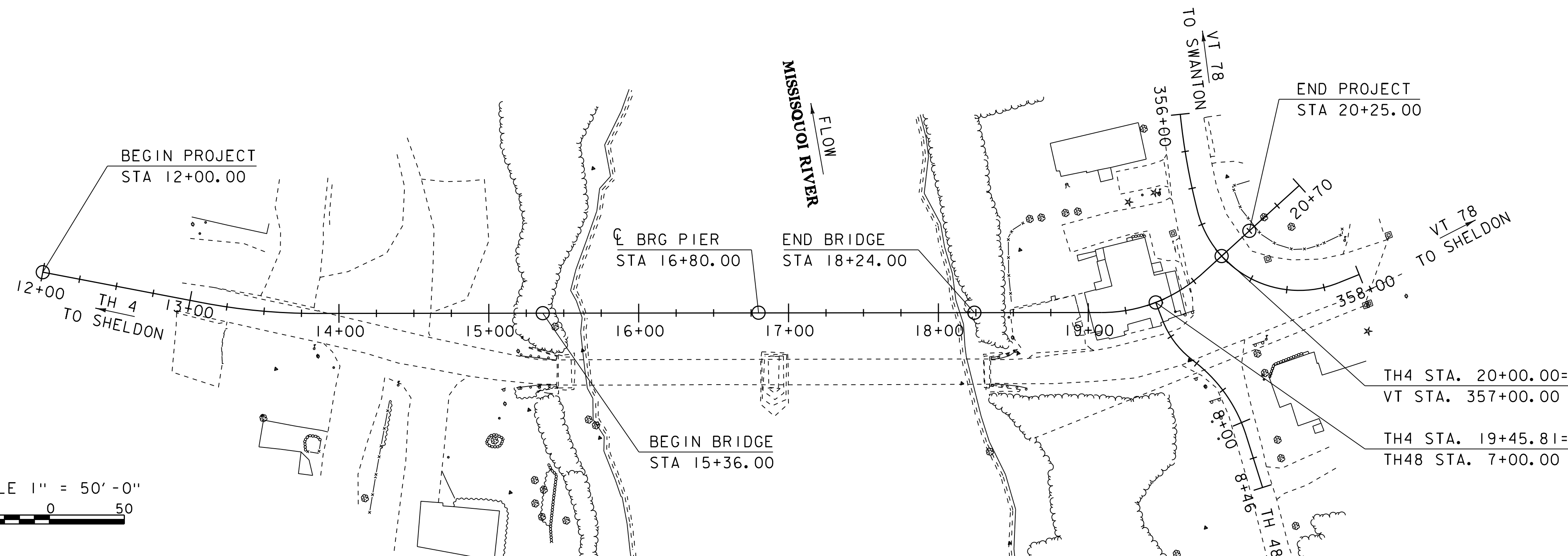
PROJECT LOCATION: 200 FEET WEST OF THE INTERSECTION OF TH 4 (MACHIA ROAD) AND VT ROUTE 78

PROJECT DESCRIPTION: REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH A NEW STRUCTURE.
INCLUDING APPROACH WORK ON TOWN HIGHWAY 4

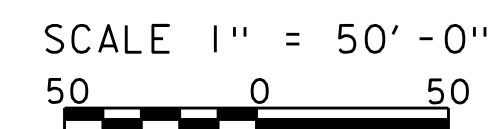
LENGTH OF STRUCTURE: 288.00 FEET
LENGTH OF ROADWAY: 537.50 FEET
LENGTH OF PROJECT: 825.00 FEET



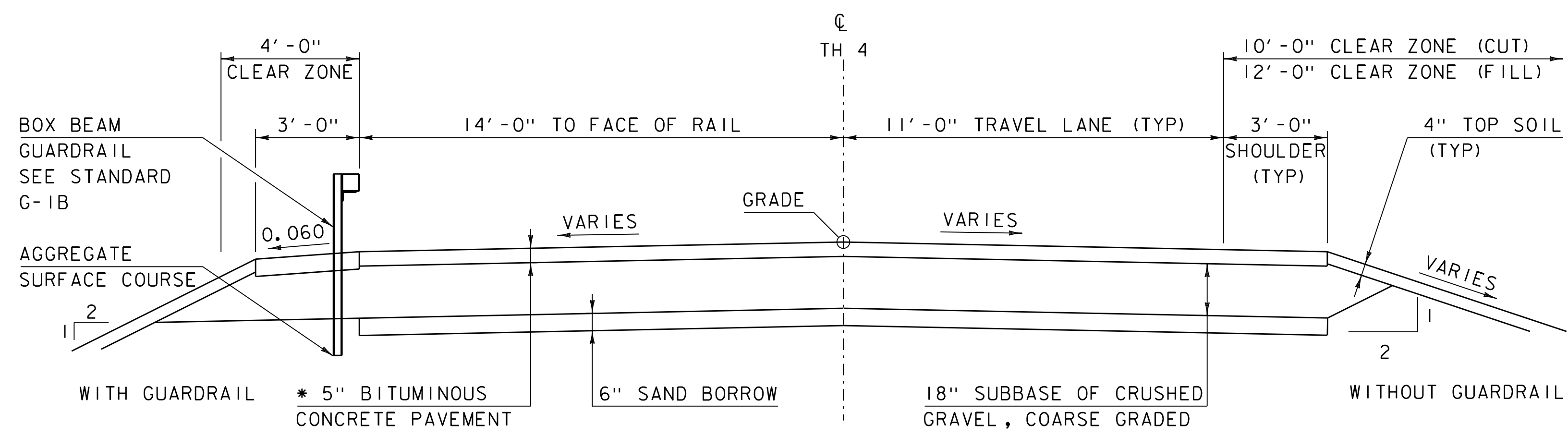
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	L. ORVIS
SURVEYED DATE :	05/29/2013
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (2007)



DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : D. BONNEAU P.E.	
PROJECT NAME :	HIGHGATE
PROJECT NUMBER :	BO 1448 (43)
SHEET 1 OF 14 SHEETS	

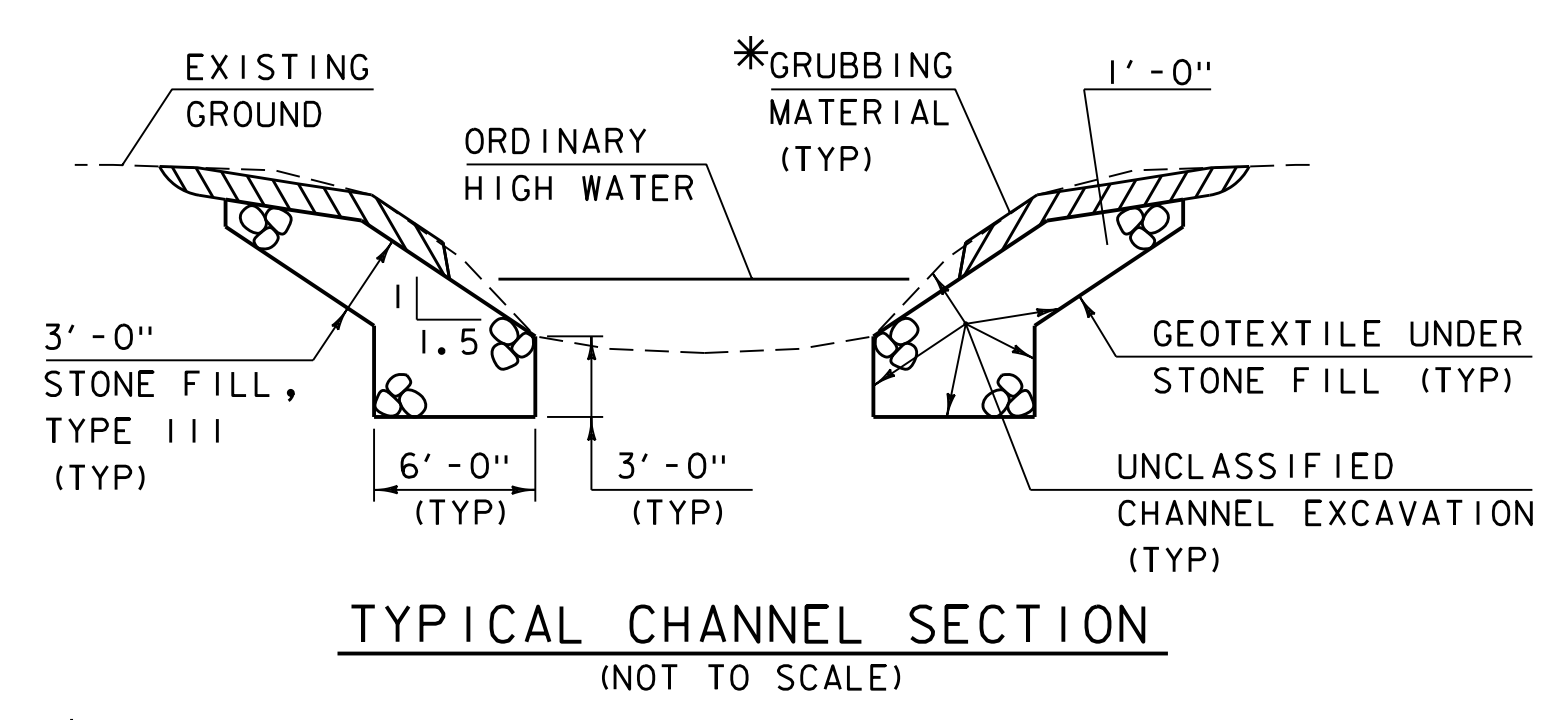


PROPOSED TH 4 TYPICAL SECTION
 SCALE 3/8" = 1'-0"

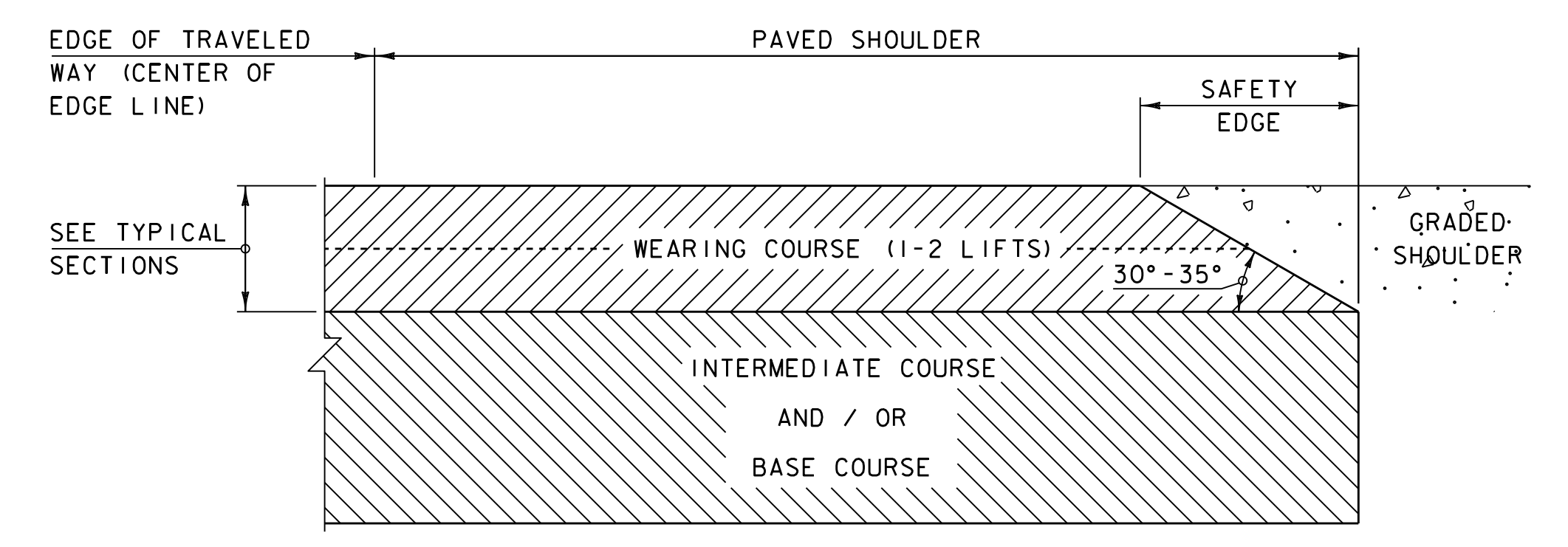
* 1 1/2" TYPE IVS OVER
 1 1/2" TYPE IVS OVER
 2" TYPE IIIS

MATERIAL TOLERANCES
 (IF USED ON PROJECT)

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

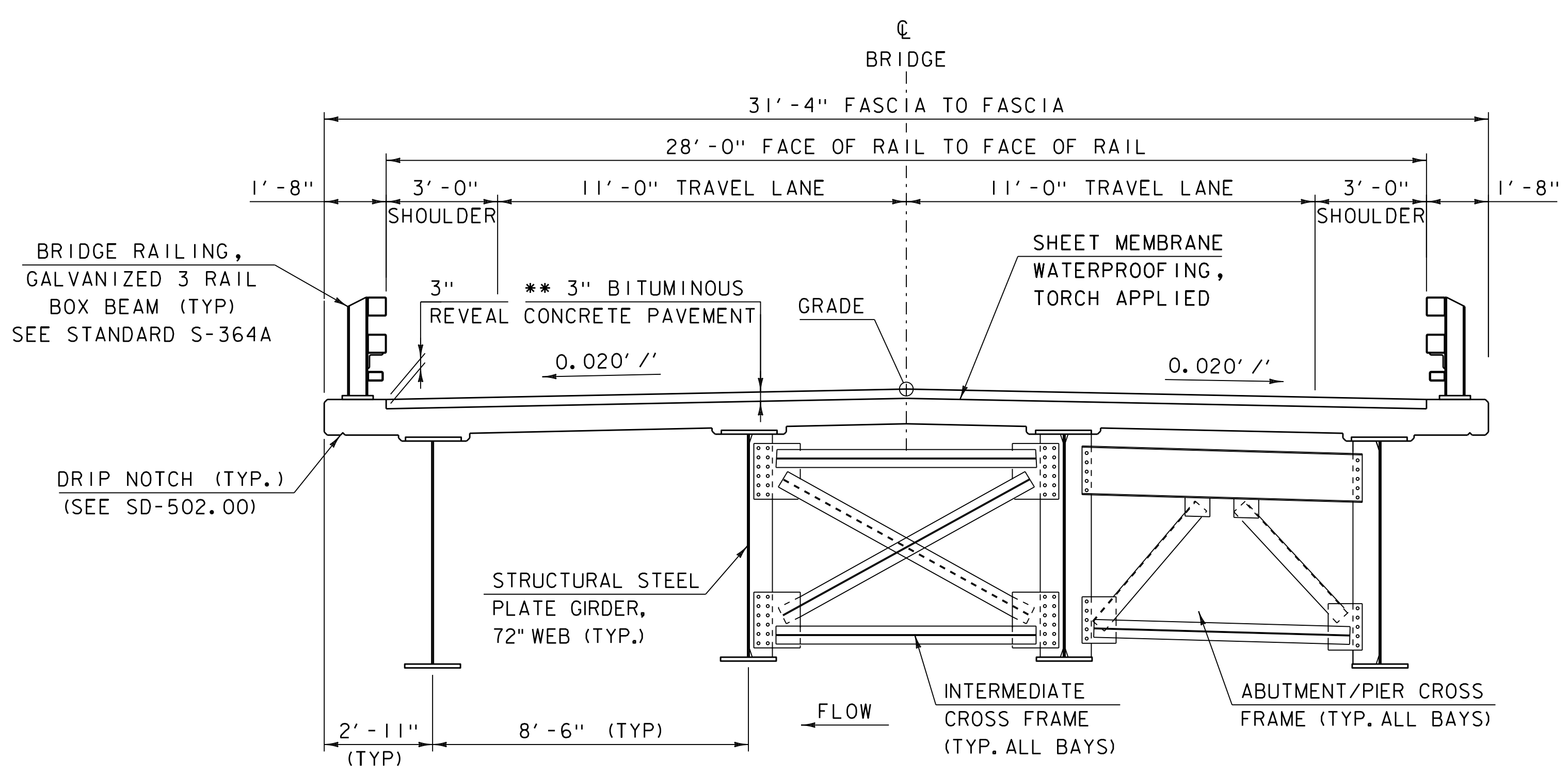


TYPICAL CHANNEL SECTION
 (NOT TO SCALE)
 *WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



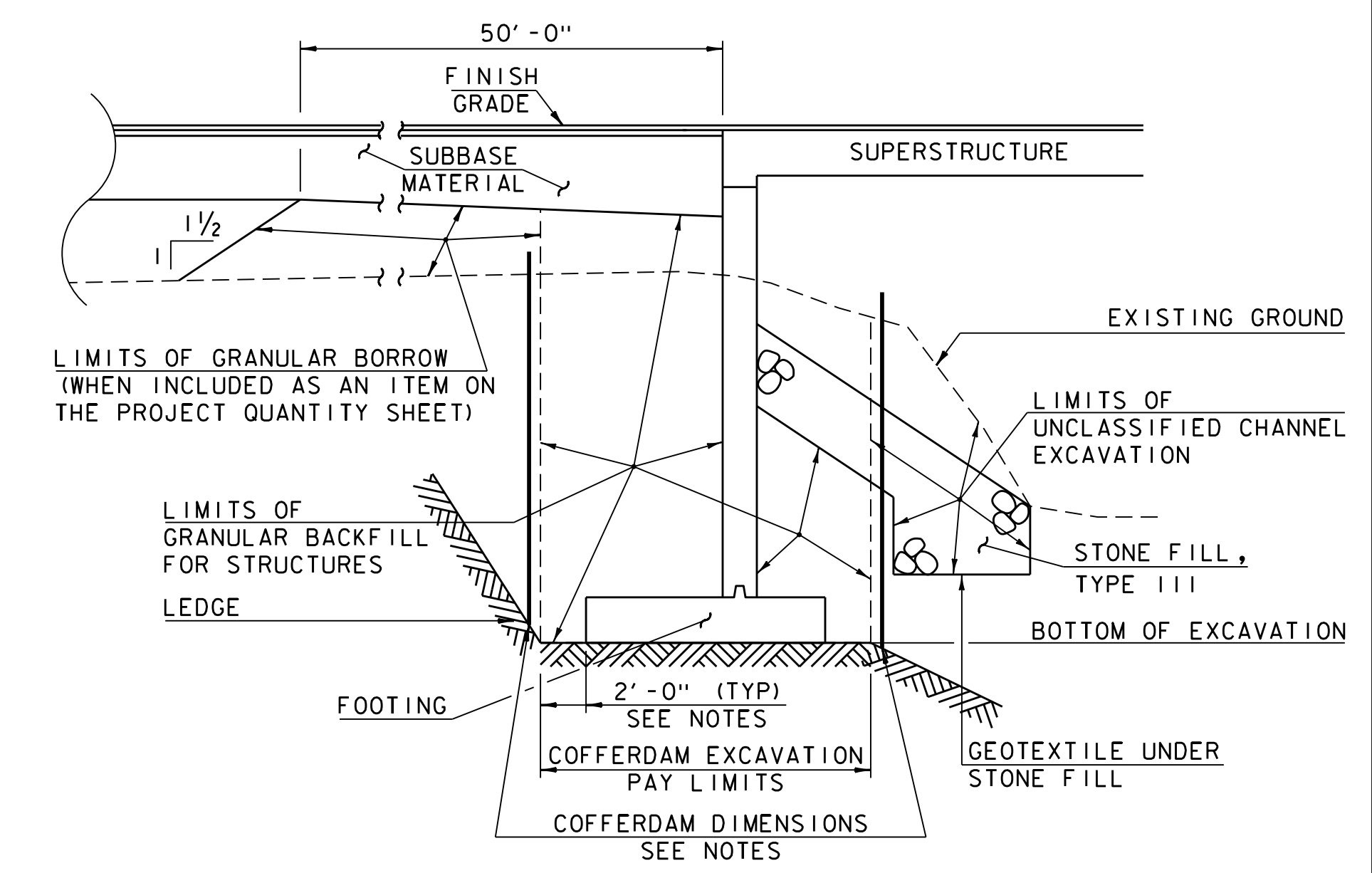
SAFETY EDGE DETAIL
 NOT TO SCALE

1. LEVELING COURSE MAY INCLUDE THE "SAFETY EDGE" AT THE CONTRACTOR'S CHOICE.
2. THE EDGE OF PAVEMENT SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE 30 TO 35 DEGREE ANGLE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.
3. THE PAVED SHOULDER EXTENDS FROM THE EDGE OF TRAVELED WAY TO THE EDGE OF THE WEARING COURSE, INCLUDING THE "SAFETY EDGE".



PROPOSED BRIDGE TYPICAL SECTION
 SCALE 3/8" = 1'-0"

** 1 1/2" TYPE IVS OVER
 1 1/2" TYPE IVS



COFFERDAM AND EARTHWORK SECTION
 (NOT TO SCALE)

COFFERDAM NOTES

1. COFFERDAM DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.
2. THE PAY LIMITS OF EITHER "COFFERDAM EXCAVATION, EARTH" AND "COFFERDAM EXCAVATION, ROCK" SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING AND FROM BOTTOM OF EXCAVATION UP TO THE EXISTING GROUND OR BOTTOM OF SUBBASE, WHICHEVER IS LOWER.
3. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION. NO MEASUREMENT AND PAYMENT WILL BE MADE FOR COFFERDAM EXCAVATION AND GRANULAR BACKFILL FOR STRUCTURES OUTSIDE THE PAY LIMITS DEFINED IN NOTE 2.

PROJECT NAME:	HIGHGATE	PLOT DATE:	07-JAN-2016
PROJECT NUMBER:	BO 1448 (43)	DRAWN BY:	C. MOONEY
FILE NAME:	s98j378typ.dgn	DESIGNED BY:	D. PETERSON
PROJECT LEADER:	C.W. CARLSON	TYPICAL SECTIONS	CHECKED BY: D. PETERSON
			SHEET 2 OF 14

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**

ONNOONNOONNO	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**

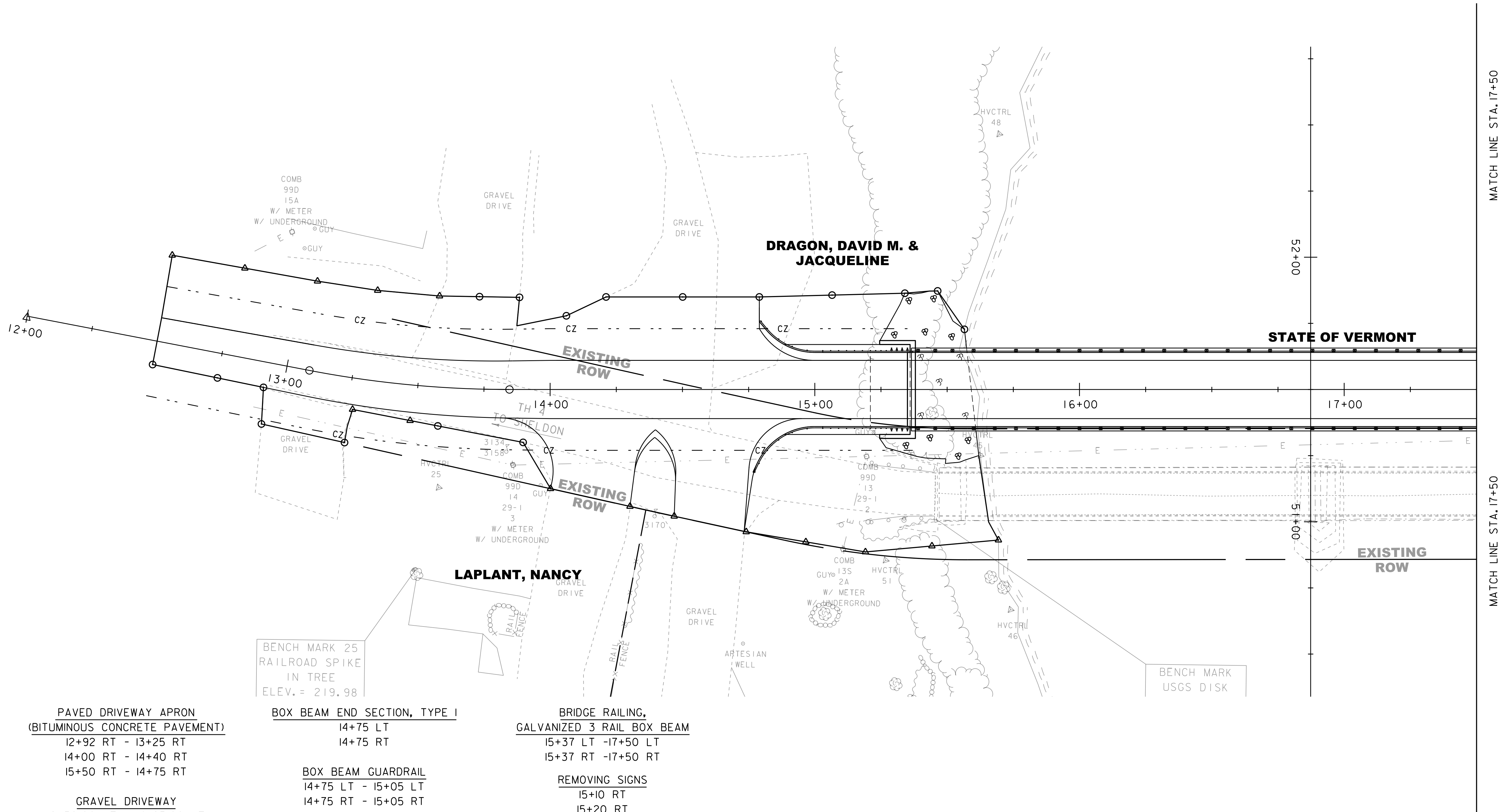
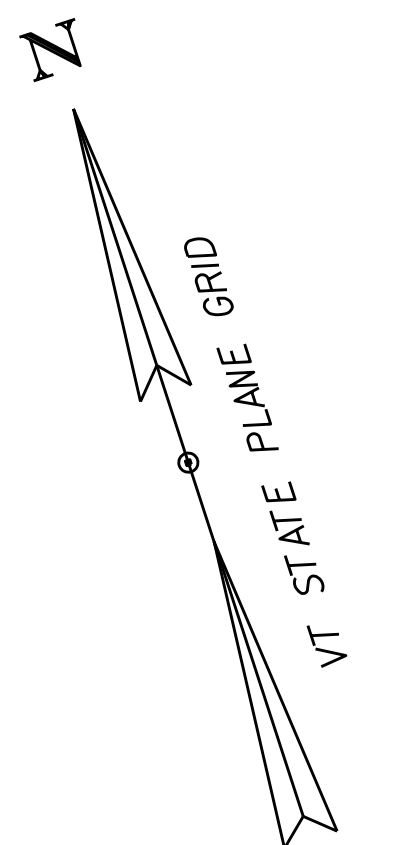
**EXISTING FEATURES**

—	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: HIGHGATE  
PROJECT NUMBER: BO 1448 (43)

FILE NAME: s98j378forms.dgn PLOT DATE: 07-JAN-2016  
PROJECT LEADER: D. BONNEAU DRAWN BY: C. MOONEY  
DESIGNED BY: D. PETERSON CHECKED BY: D. PETERSON  
SYMBOLGY LEGEND SHEET 3 OF 14

EXISTING BRIDGE INFORMATION  
 TWO SPAN THRU STEEL TRUSS  
 BUILT 1928  
 MAX SPAN LENGTH = 143'  
 TOTAL LENGTH = 292'  
 SINGLE LANE BRIDGE,  
 POSTED FOR 5 TONS.



BENCH MARK 25  
 RAILROAD SPIKE  
 IN TREE  
 ELEV. = 219.98

BENCH MARK  
 USGS DISK

PAVED DRIVEWAY APRON  
 (BITUMINOUS CONCRETE PAVEMENT)  
 12+92 RT - 13+25 RT  
 14+00 RT - 14+40 RT  
 15+50 RT - 14+75 RT

BOX BEAM END SECTION, TYPE I  
 14+75 LT  
 14+75 RT

BRIDGE RAILING,  
 GALVANIZED 3 RAIL BOX BEAM  
 15+37 LT - 17+50 LT  
 15+37 RT - 17+50 RT

GRAVEL DRIVEWAY  
 12+50.00 LT - 14+25.00 LT

BOX BEAM GUARDRAIL  
 14+75 LT - 15+05 LT  
 14+75 RT - 15+05 RT

REMOVING SIGNS  
 15+10 RT  
 15+20 RT  
 15+35 RT

REMOVAL AND DISPOSAL OF GUARDRAIL  
 15+20 RT - 15+45 RT  
 15+20 RT - 15+45 RT

GUARDRAIL APPROACH SECTION,  
 GALVANIZED 3 RAIL BOX BEAM  
 15+05 LT - 15+37 LT  
 15+05 RT - 15+37 RT

REMOVE & RESET MAILBOX  
 13+83 RT (2)  
 14+40 RT

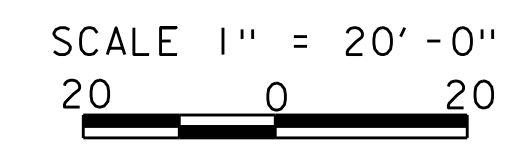
MATCH LINE STA. 17+50

MATCH LINE STA. 17+50

PROJECT NAME: HIGHGATE  
 PROJECT NUMBER: BO 1448 (43)

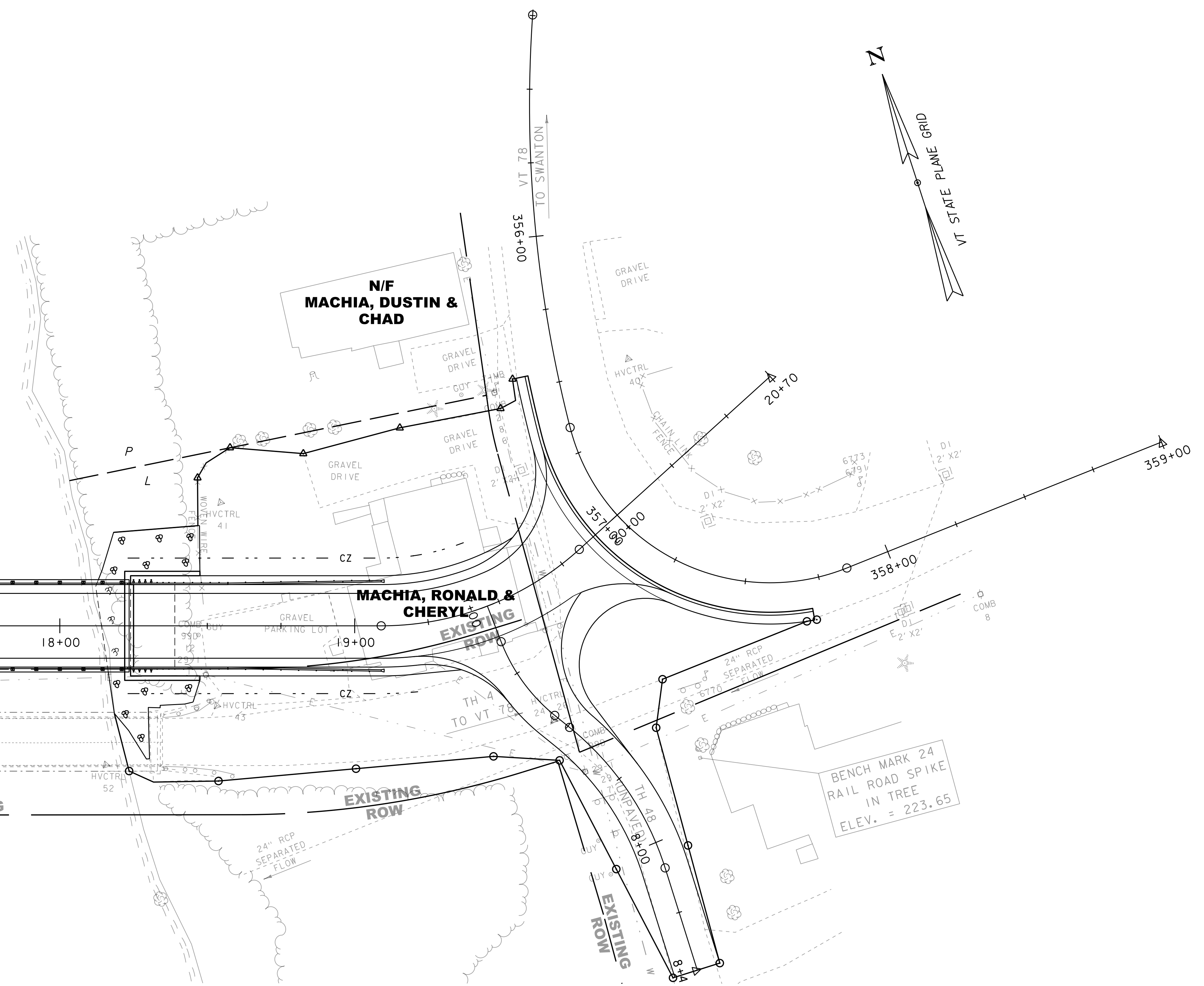
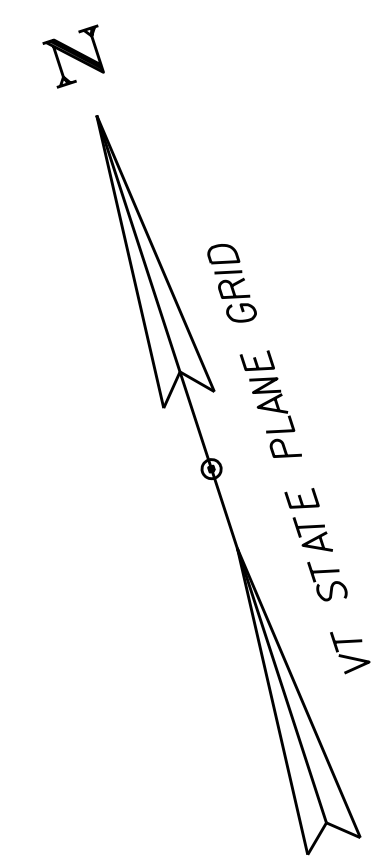
FILE NAME: s98j378bdr.dgn  
 PROJECT LEADER: D. BONNEAU  
 DESIGNED BY: D. PETERSON  
 LAYOUT SHEET 1

PLOT DATE: 07-JAN-2016  
 DRAWN BY: C. MOONEY  
 CHECKED BY: D. PETERSON  
 SHEET 4 OF 14



MATCH LINE STA. 17+50

MATCH LINE STA. 17+50



GUARDRAIL APPROACH SECTION,  
GALVANIZED 3 RAIL BOX BEAM

18+23 LT - 18+57 LT  
18+23 RT - 18+57 RT

BOX BEAM GUARDRAIL  
18+57 LT - 18+96 LT  
18+57 RT - 18+96 RT

BOX BEAM, MTS  
18+96 LT - 19+10 LT  
18+96 RT - 19+10 RT

BRIDGE RAILING,  
GALVANIZED 3 RAIL BOX BEAM

15+37 LT -17+50 LT  
15+37 RT -17+50 RT

REMOVING SIGNS  
18+46 RT  
18+51 RT  
19+55 RT (4)  
19+80 RT

REMOVE & RESET MAILBOX  
19+80 RT

REMOVAL AND DISPOSAL OF GUARDRAIL

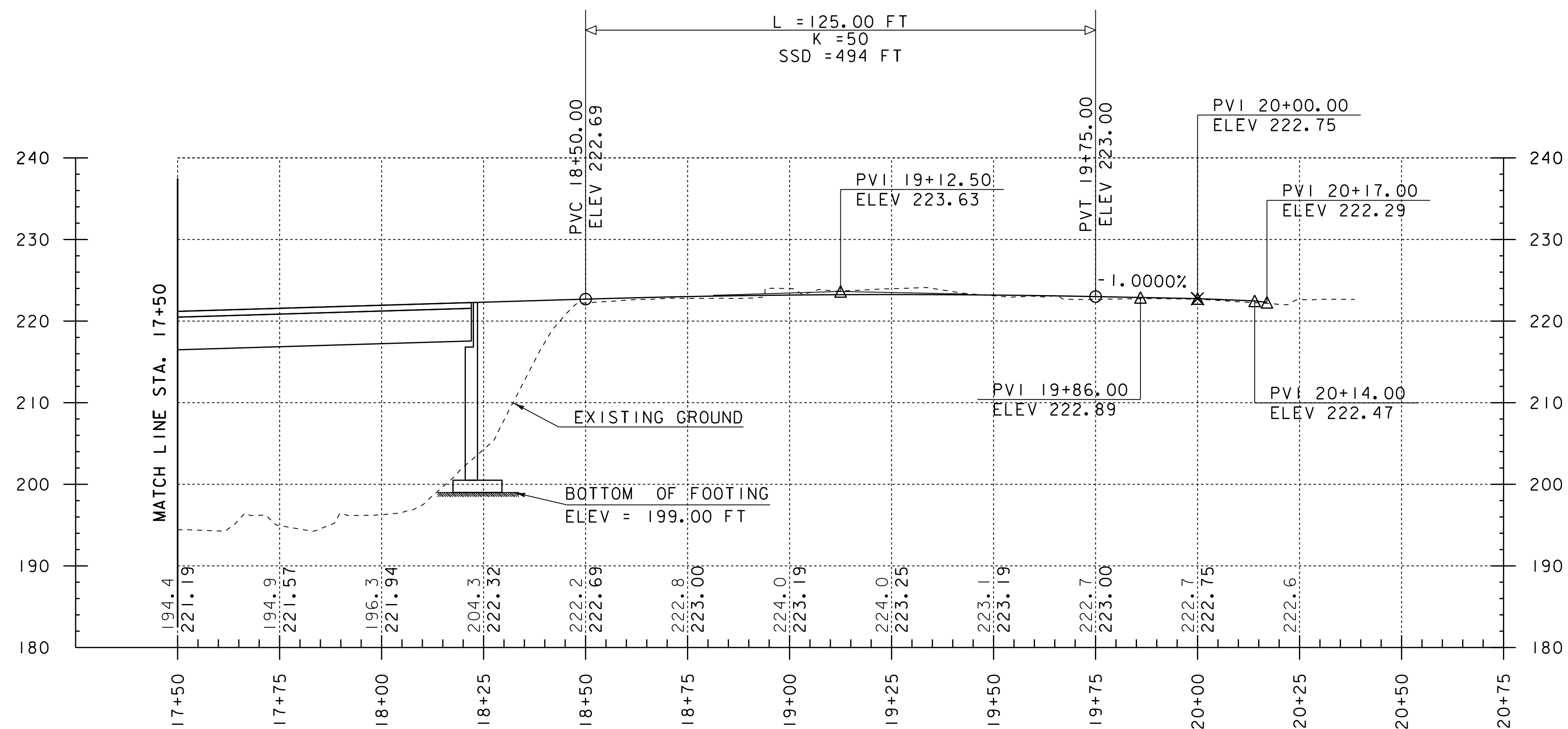
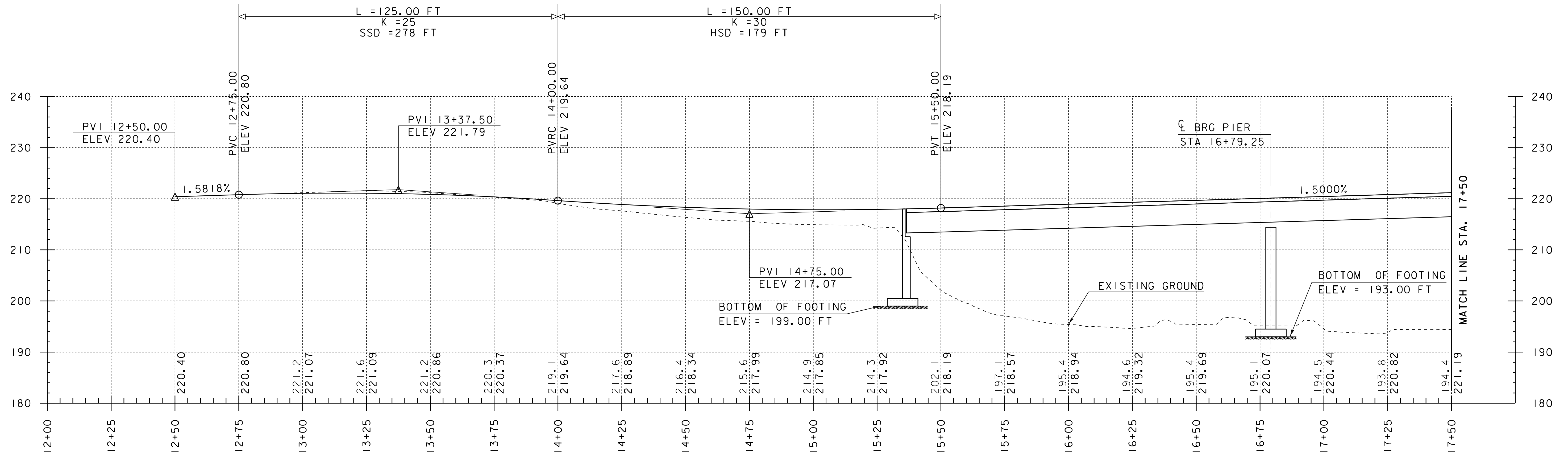
18+34 RT - 18+60 RT  
18+34 RT - 18+60 RT

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

PROJECT NAME: HIGHGATE  
PROJECT NUMBER: BO 1448 (43)

FILE NAME: s98j378bdr.dgn  
PROJECT LEADER: D. BONNEAU  
DESIGNED BY: D. PETERSON  
LAYOUT SHEET 2

PLOT DATE: 07-JAN-2016  
DRAWN BY: C. MOONEY  
CHECKED BY: D. PETERSON  
SHEET 5 OF 14

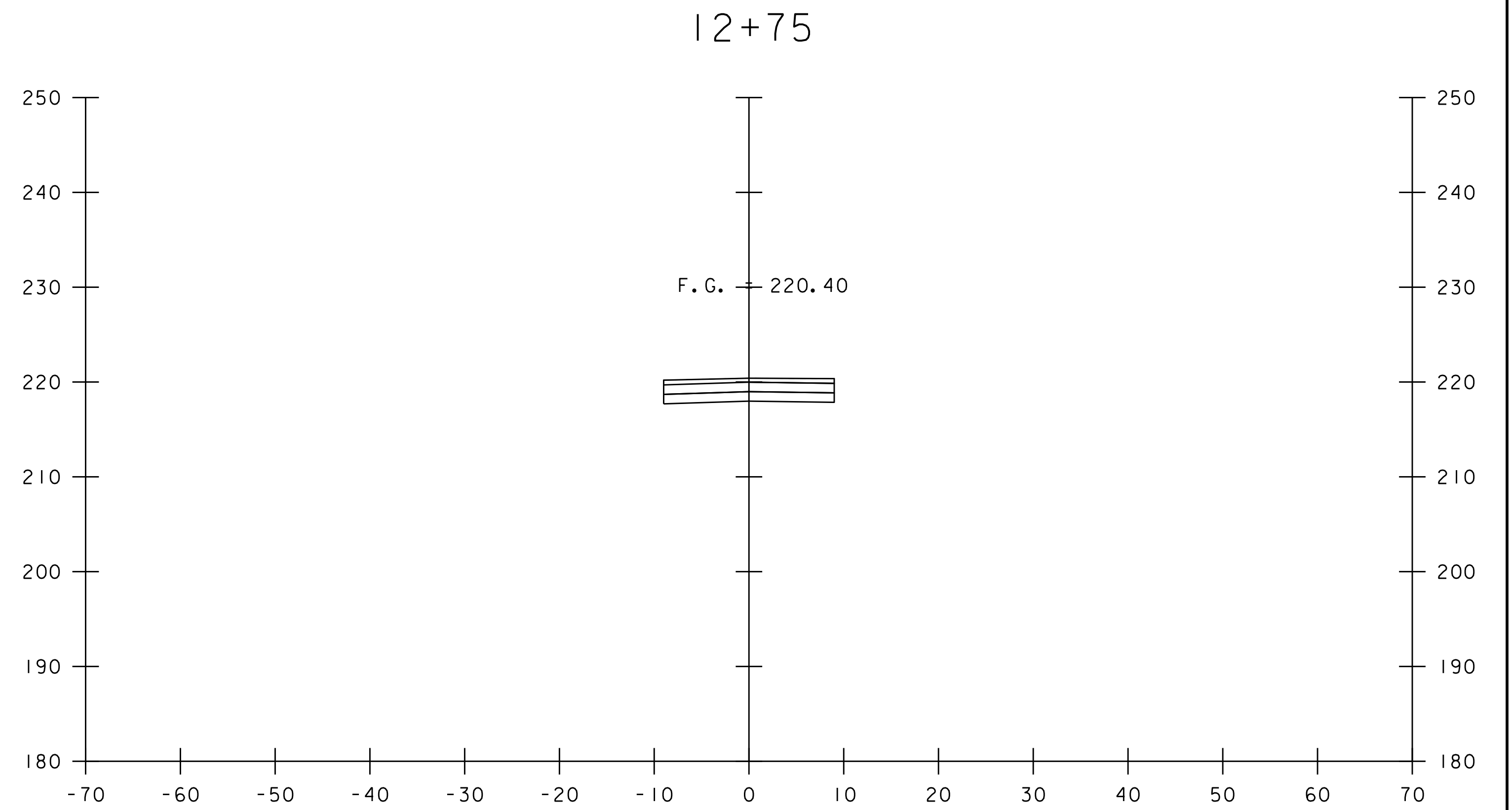
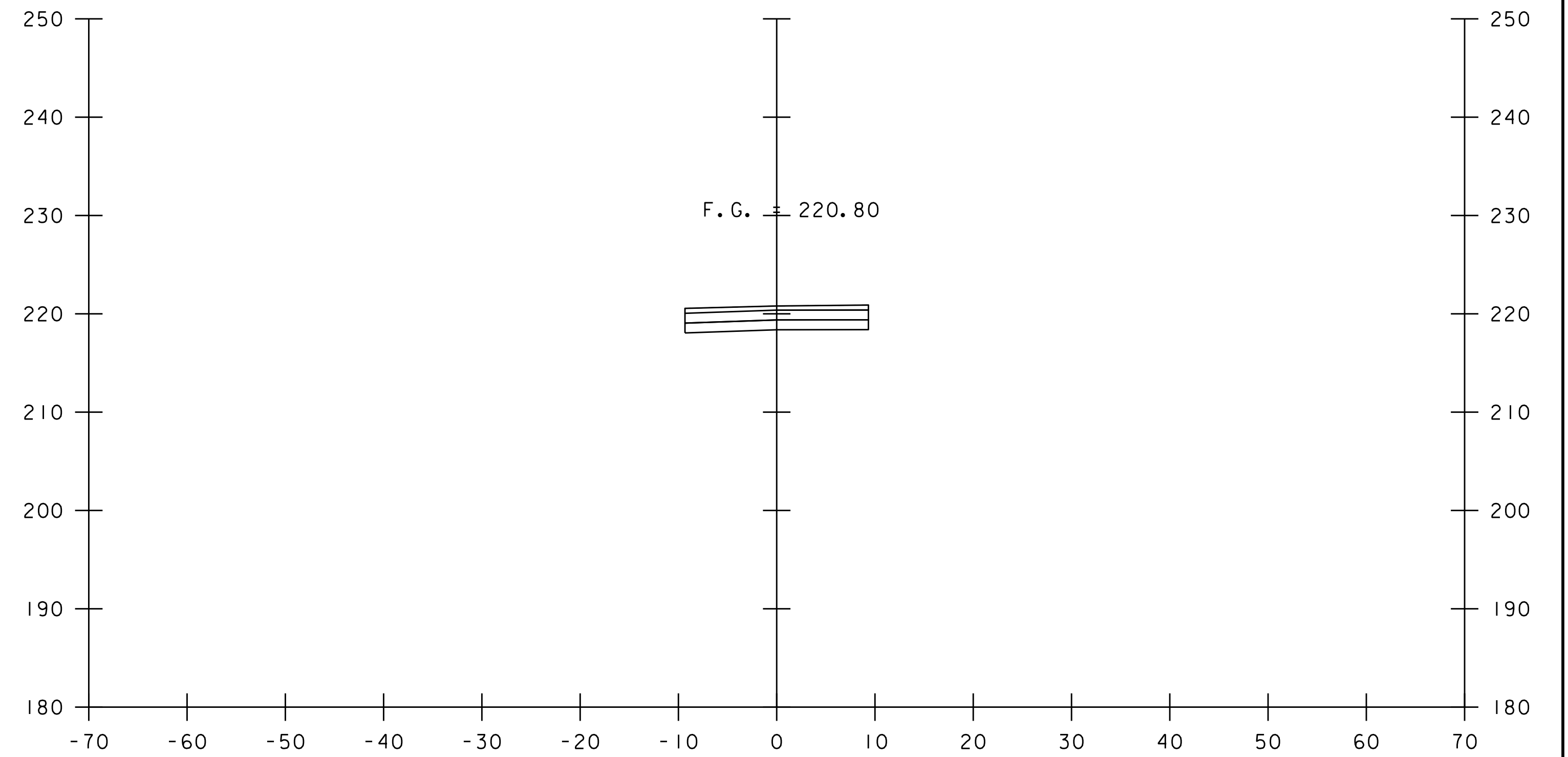


SCALE 1" = 20'-0"

PROJECT NAME: HIGHGATE  
 PROJECT NUMBER: BO 1448 (43)

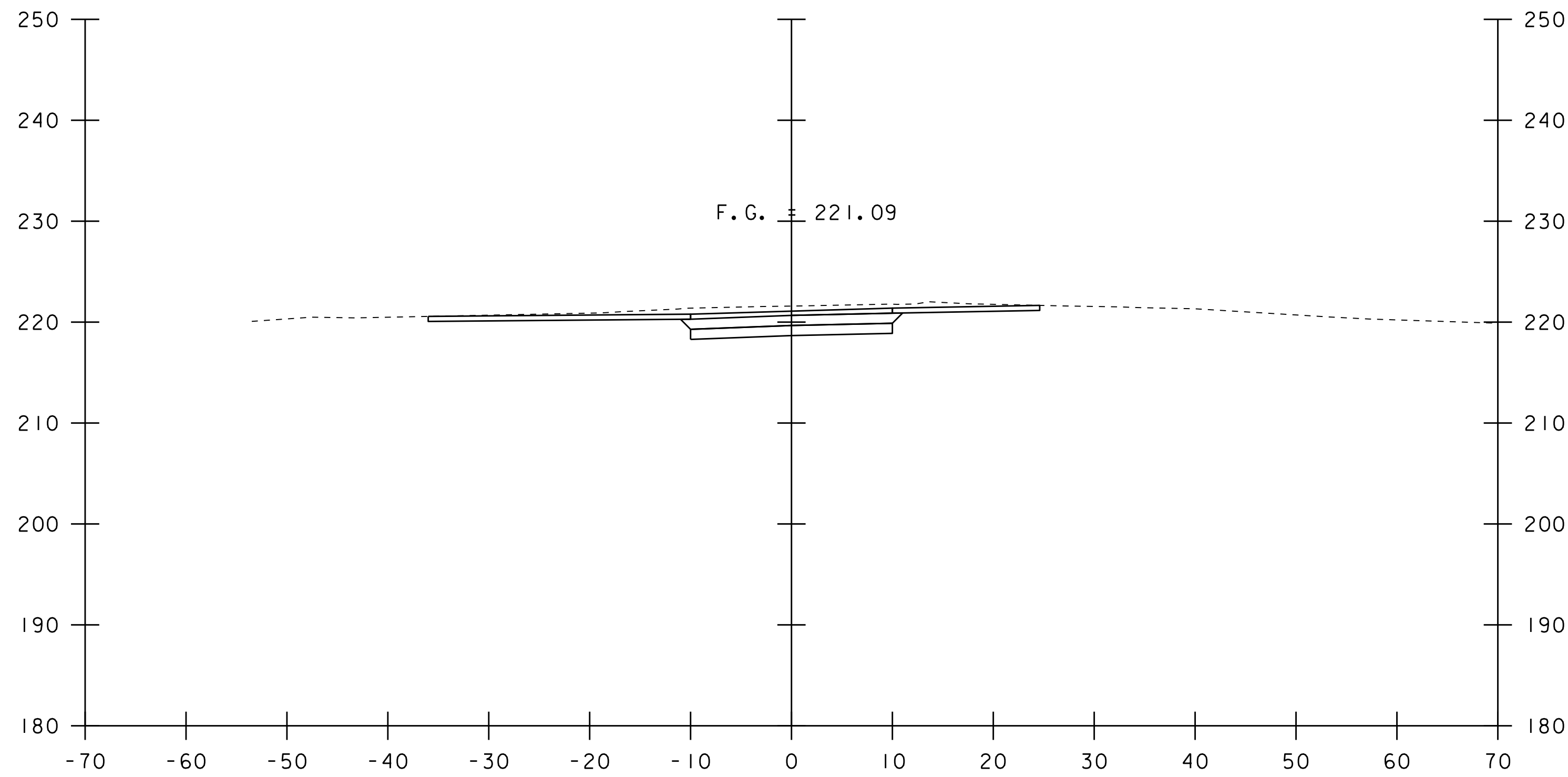
FILE NAME: s98j378bdr.dgn  
 PROJECT LEADER: D. BONNEAU  
 DESIGNED BY: D. PETERSON  
 UTILITY LAYOUT

PLOT DATE: 07-JAN-2016  
 DRAWN BY: C. MOONEY  
 CHECKED BY: D. PETERSON  
 SHEET 6 OF 14

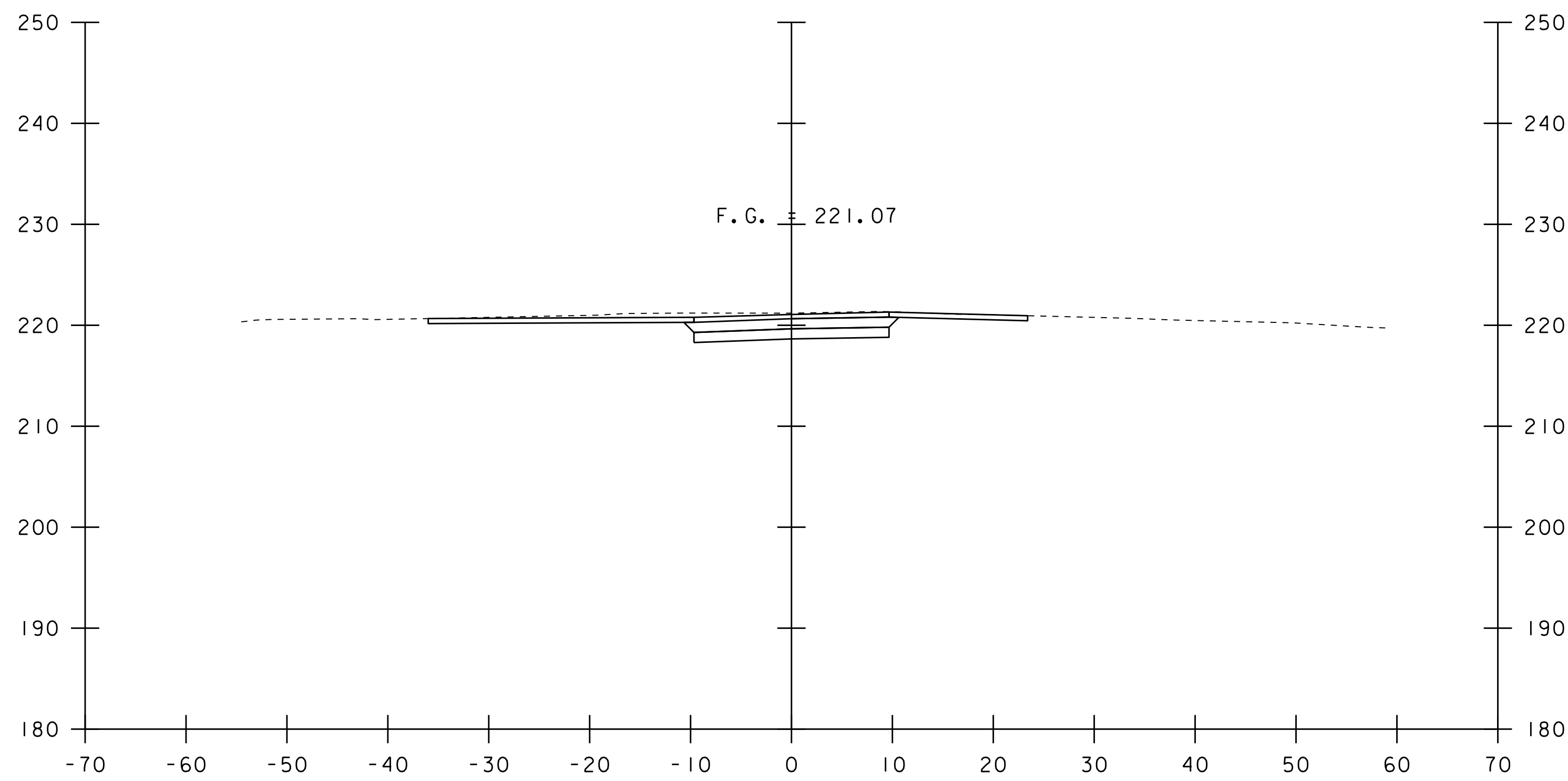


STA. 12+00 TO STA. 12+75

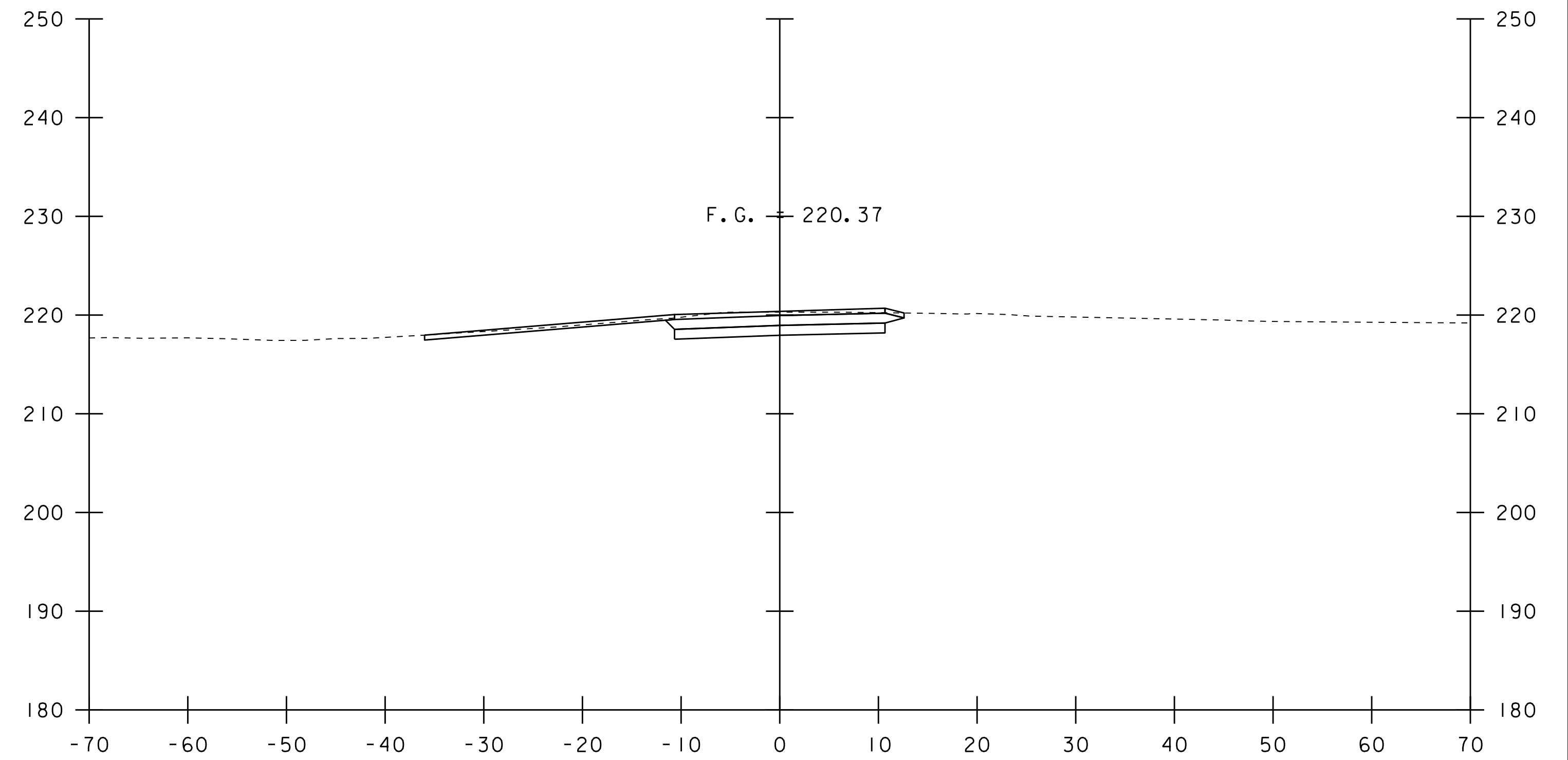
PROJECT NAME: HIGHGATE	
PROJECT NUMBER: BO 1448 (43)	
FILE NAME: s98j378xs.Str Align.dgn	PLOT DATE: 07-JAN-2016
PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 1	SHEET 7 OF 14



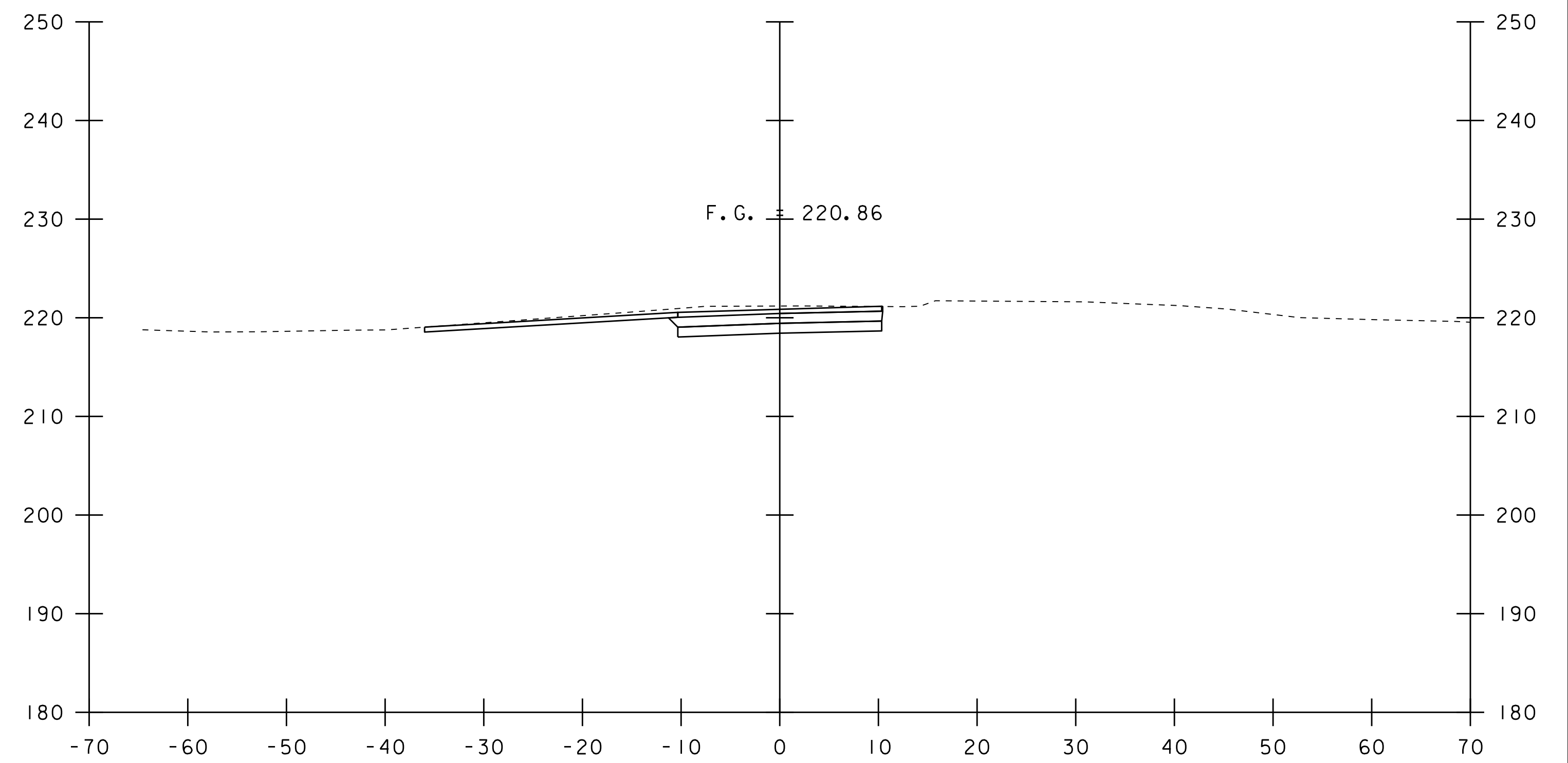
13+25



13+00



13+75

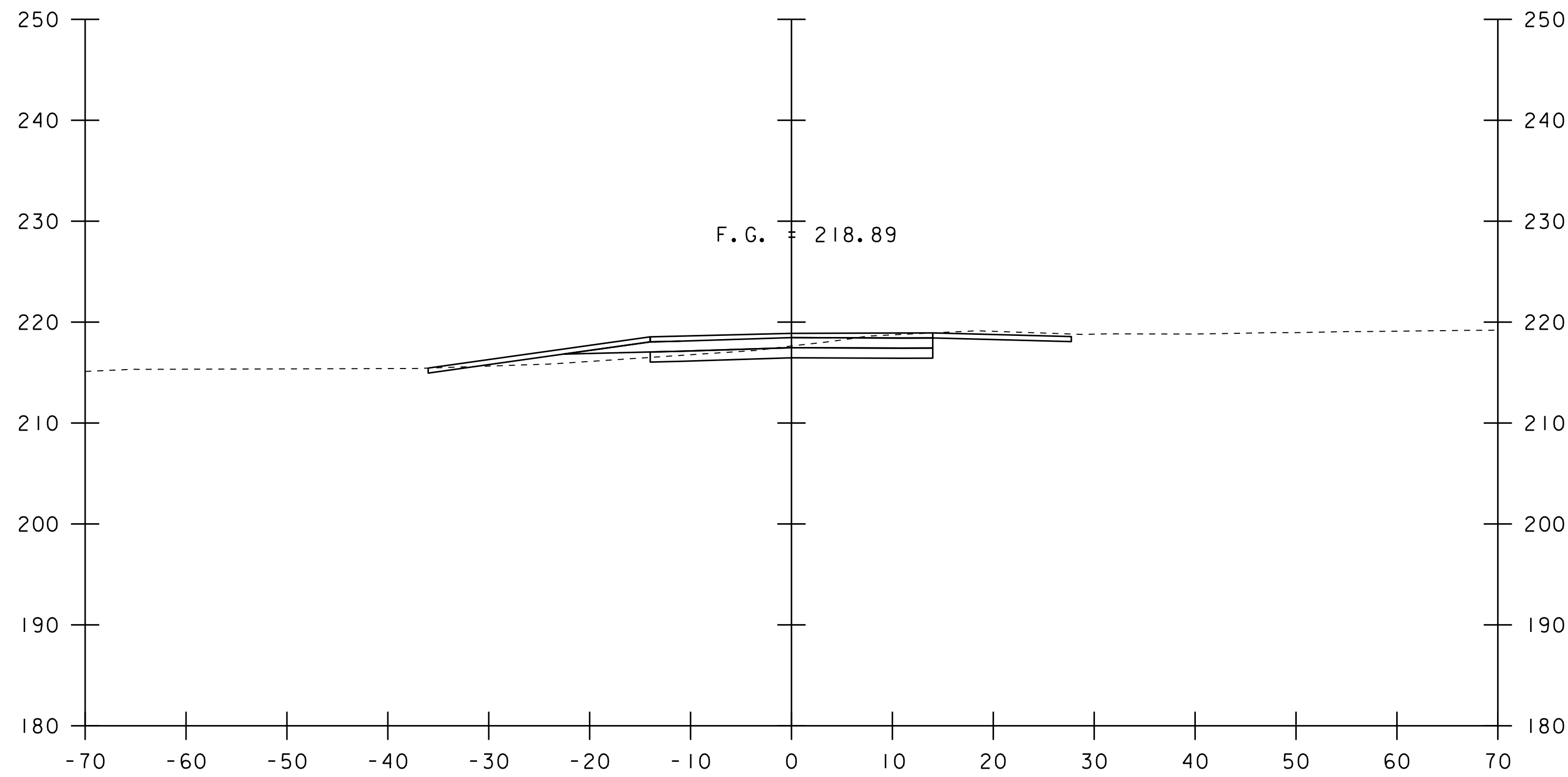


13+50

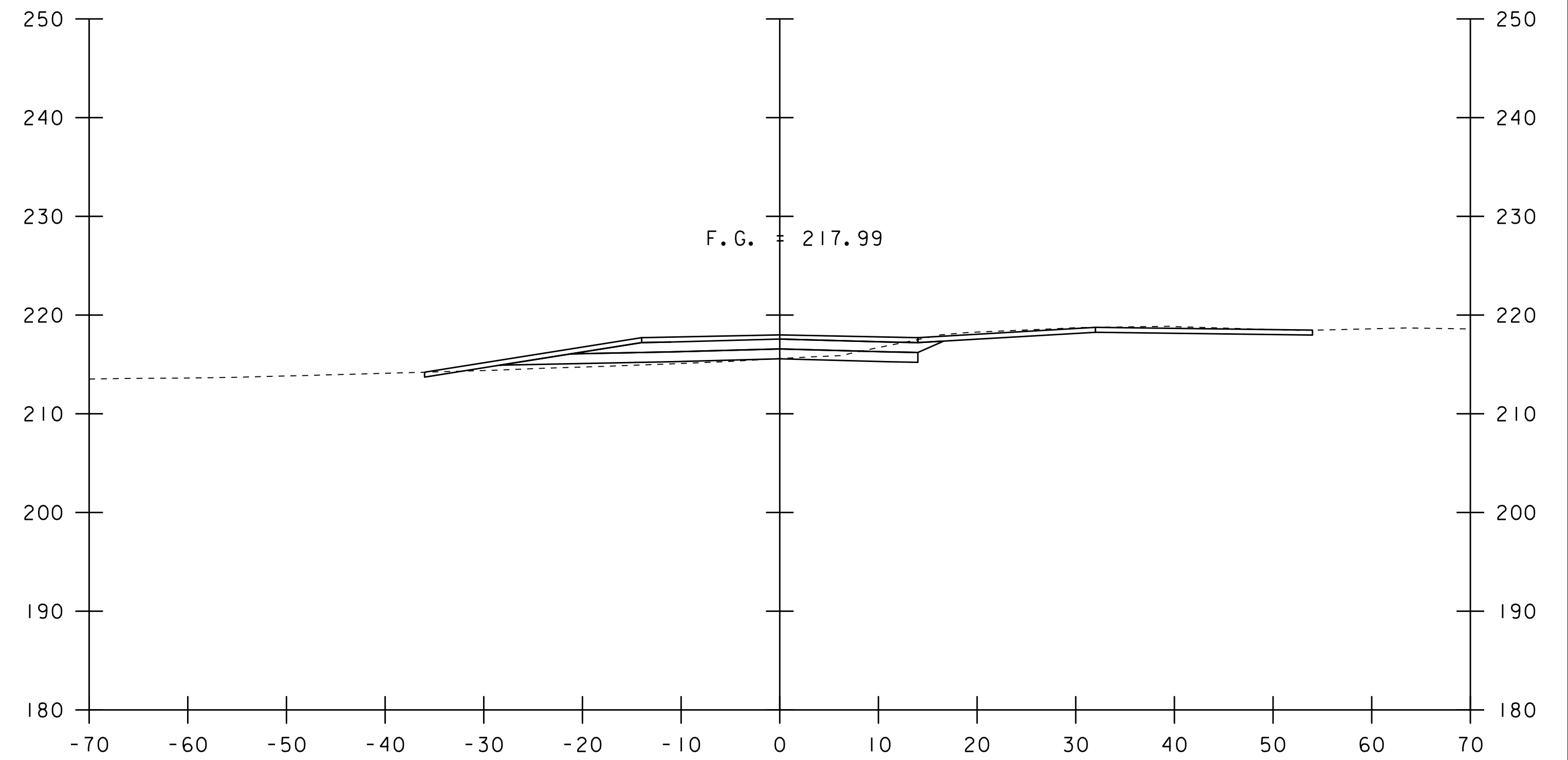
STA. 13+00 TO STA. 13+75

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PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 2	SHEET 8 OF 14

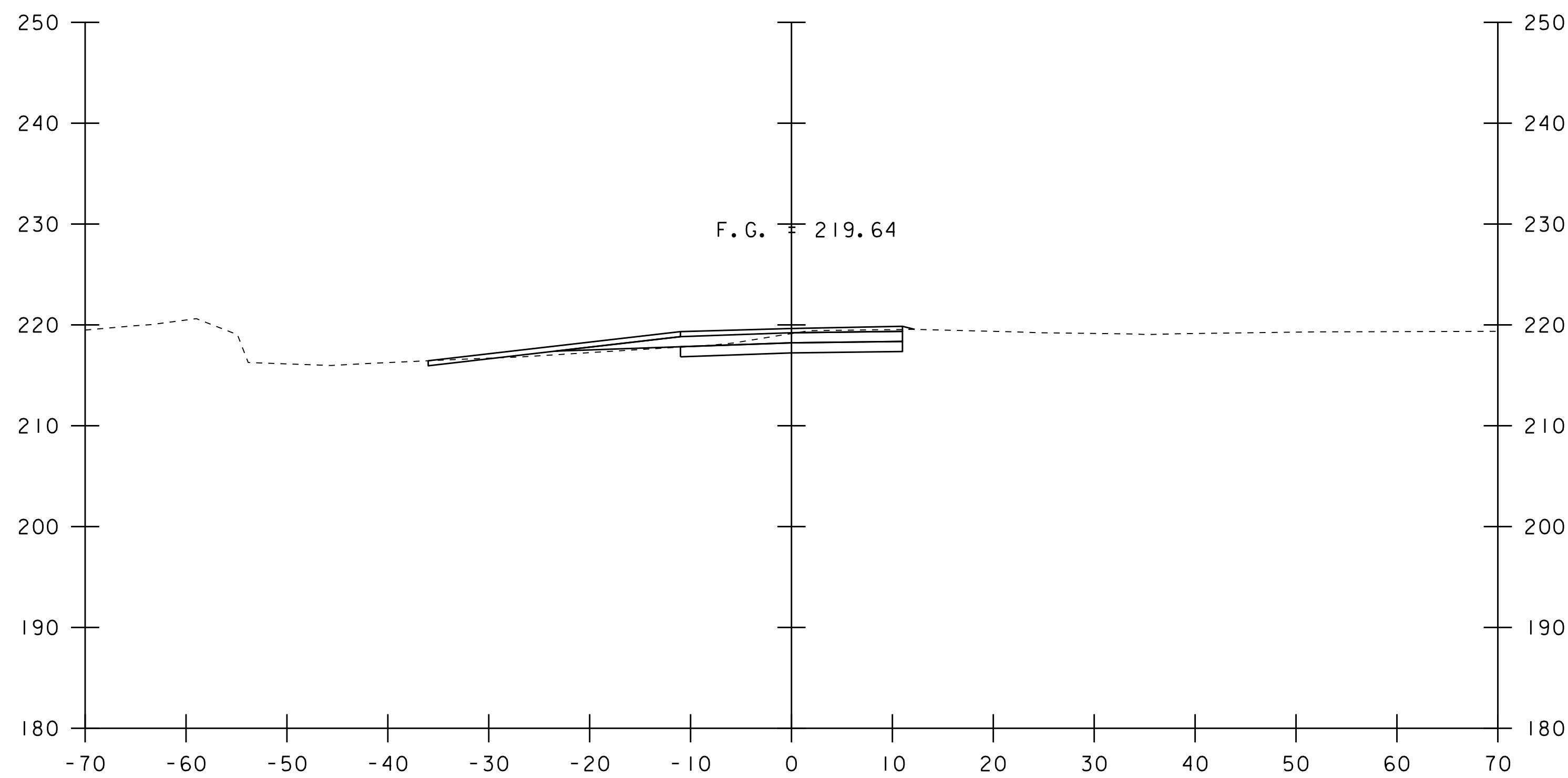




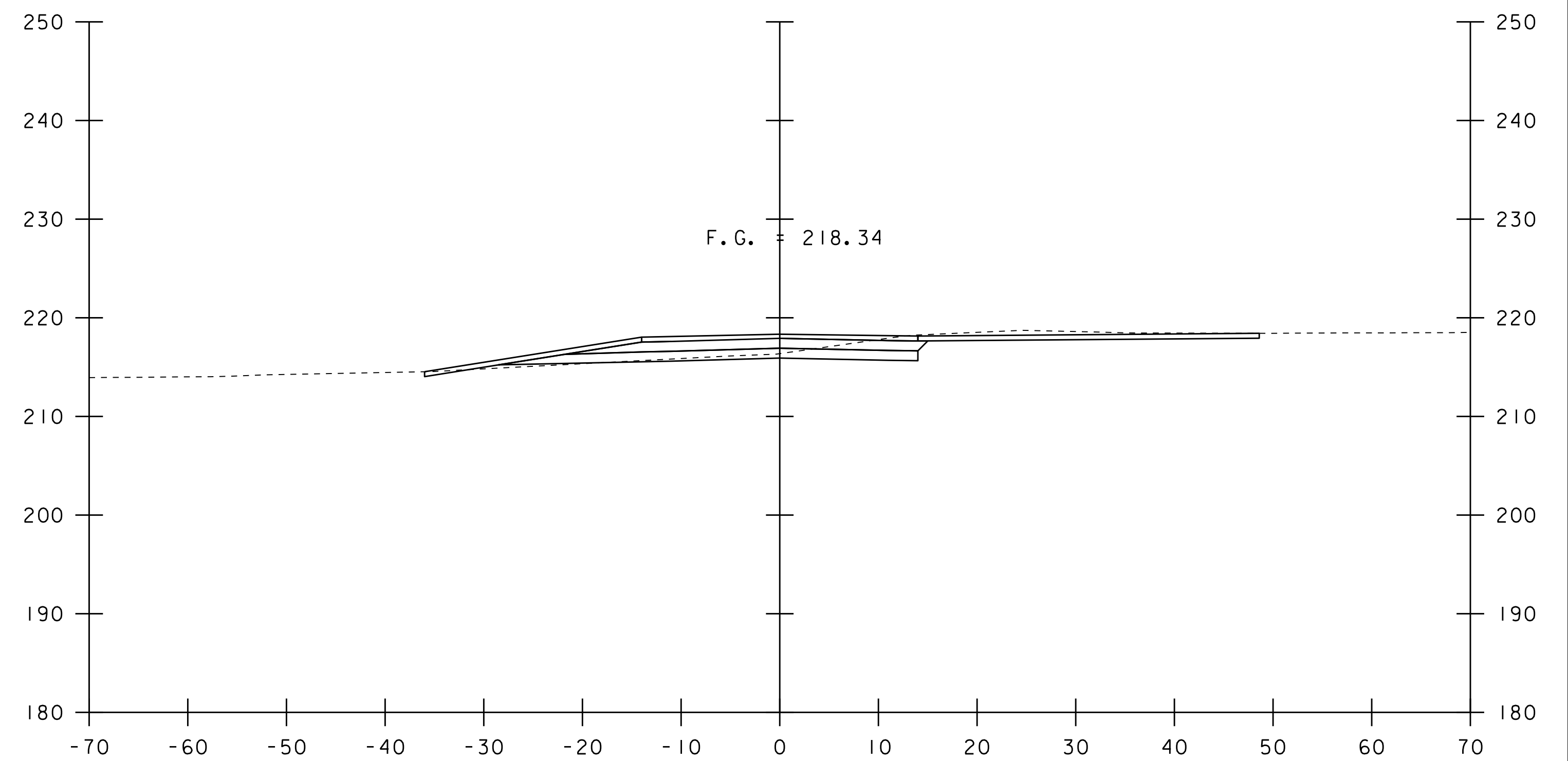
14+25



14+75



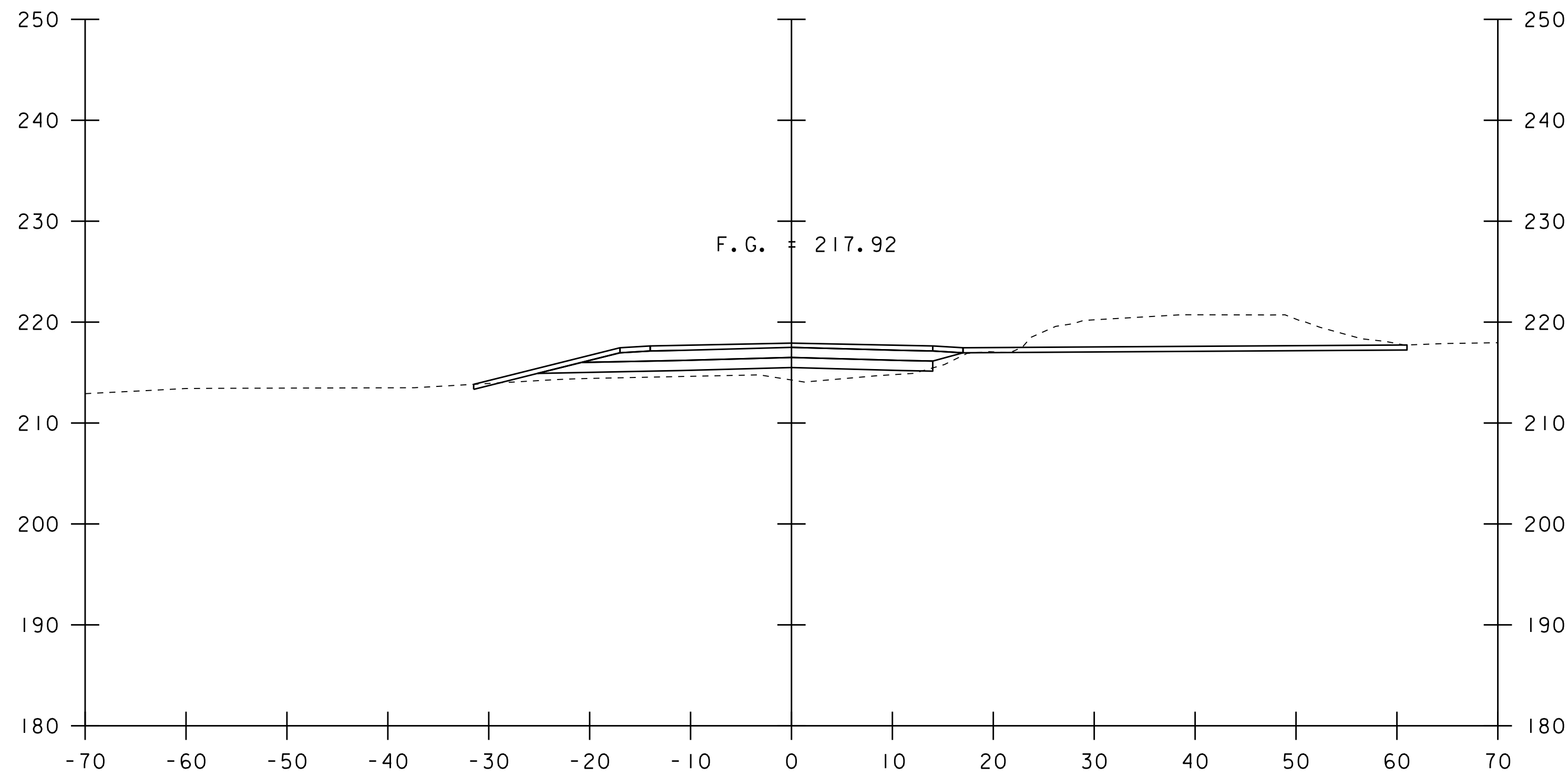
14+00



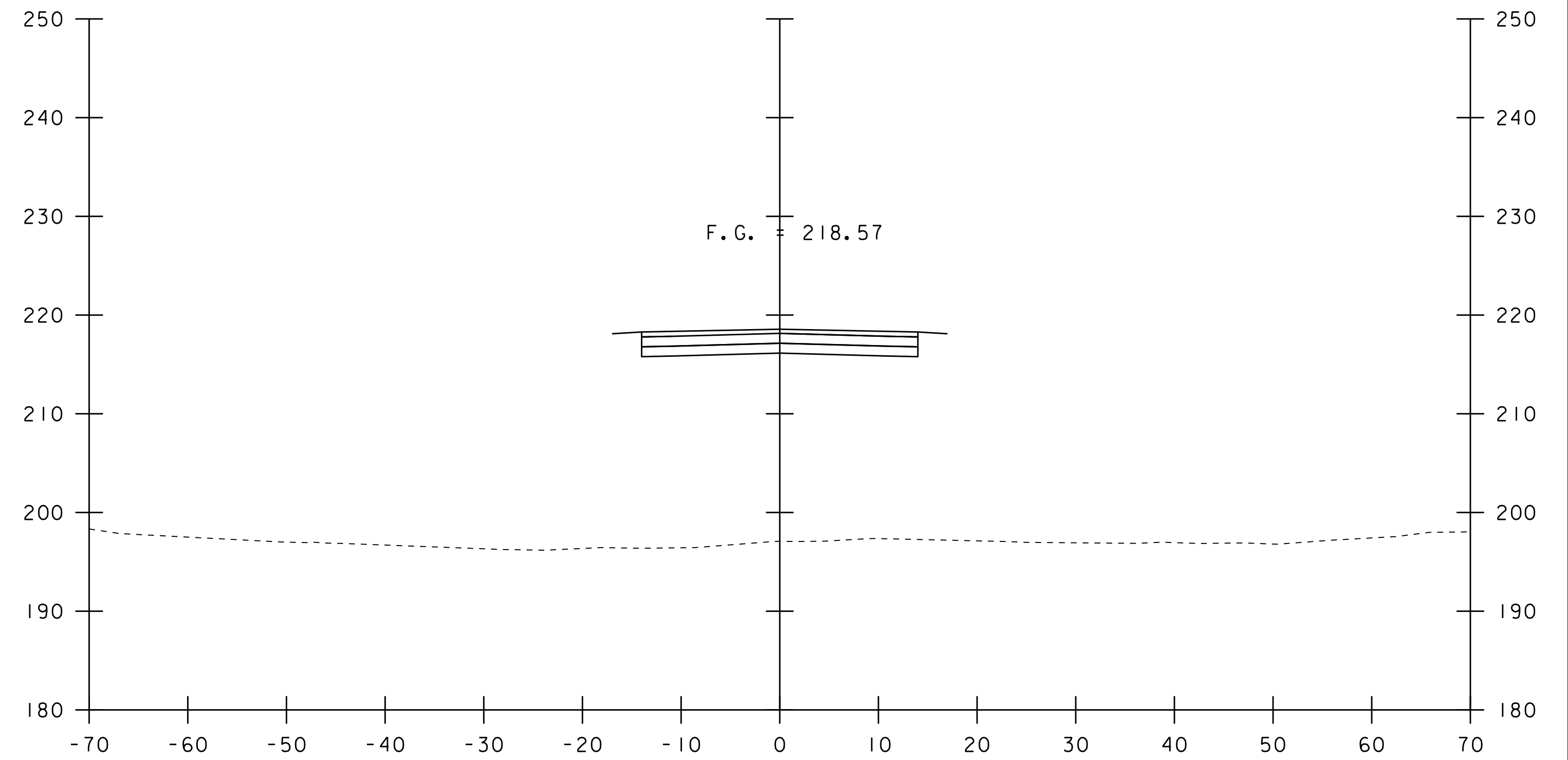
14+50

STA. 14+00 TO STA. 14+75

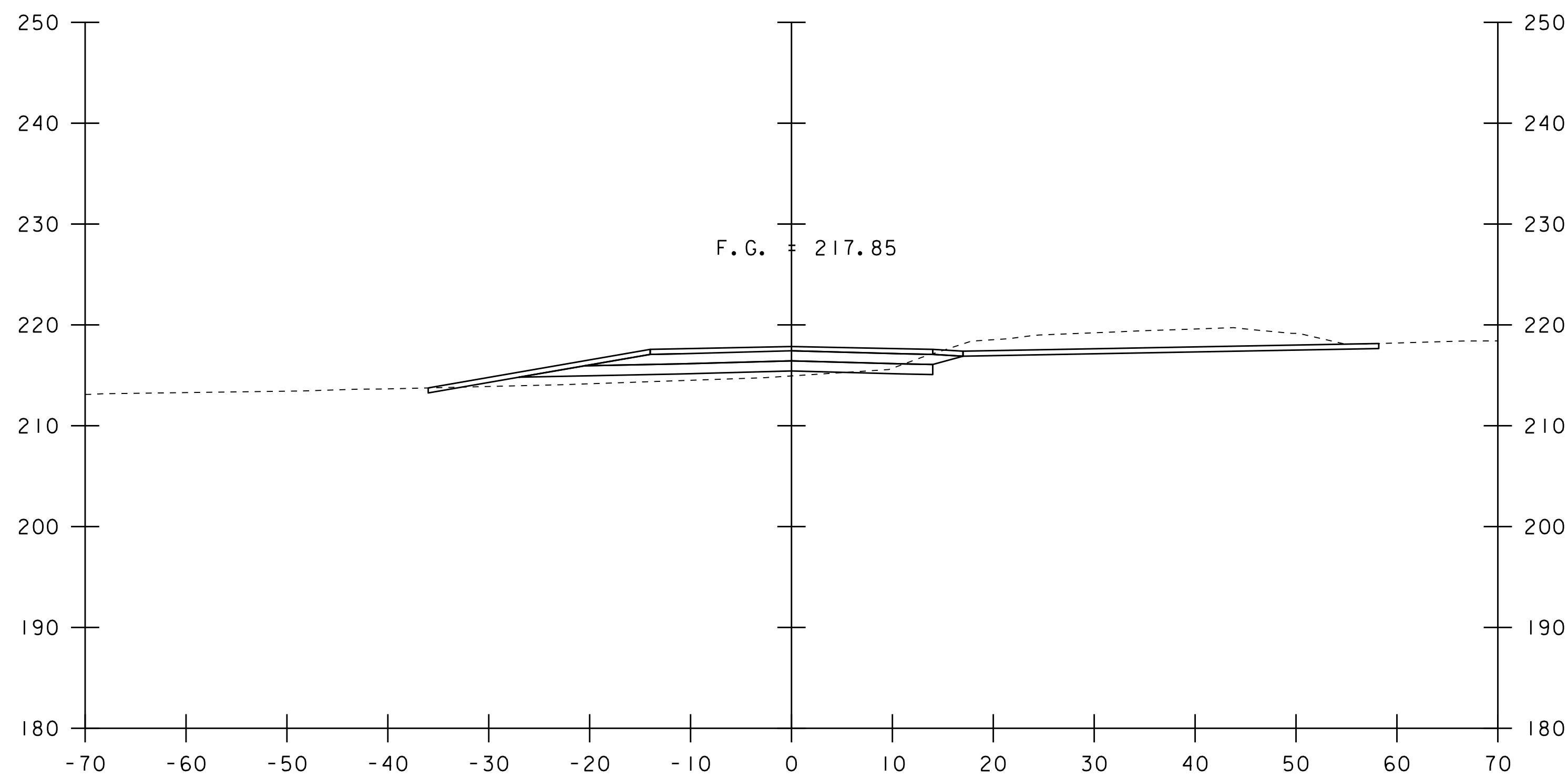
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PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 3	SHEET 9 OF 14



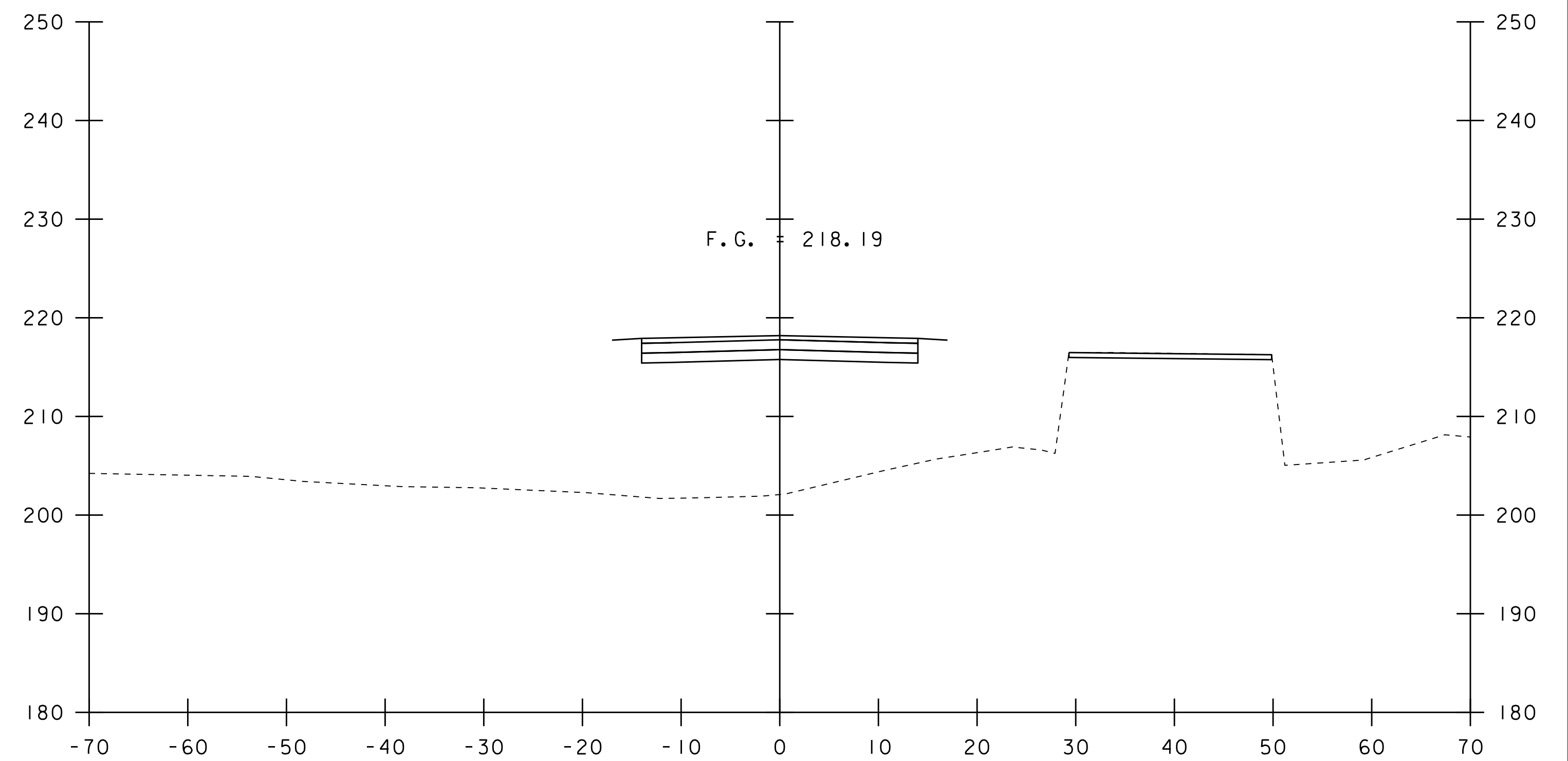
15+25



15+75



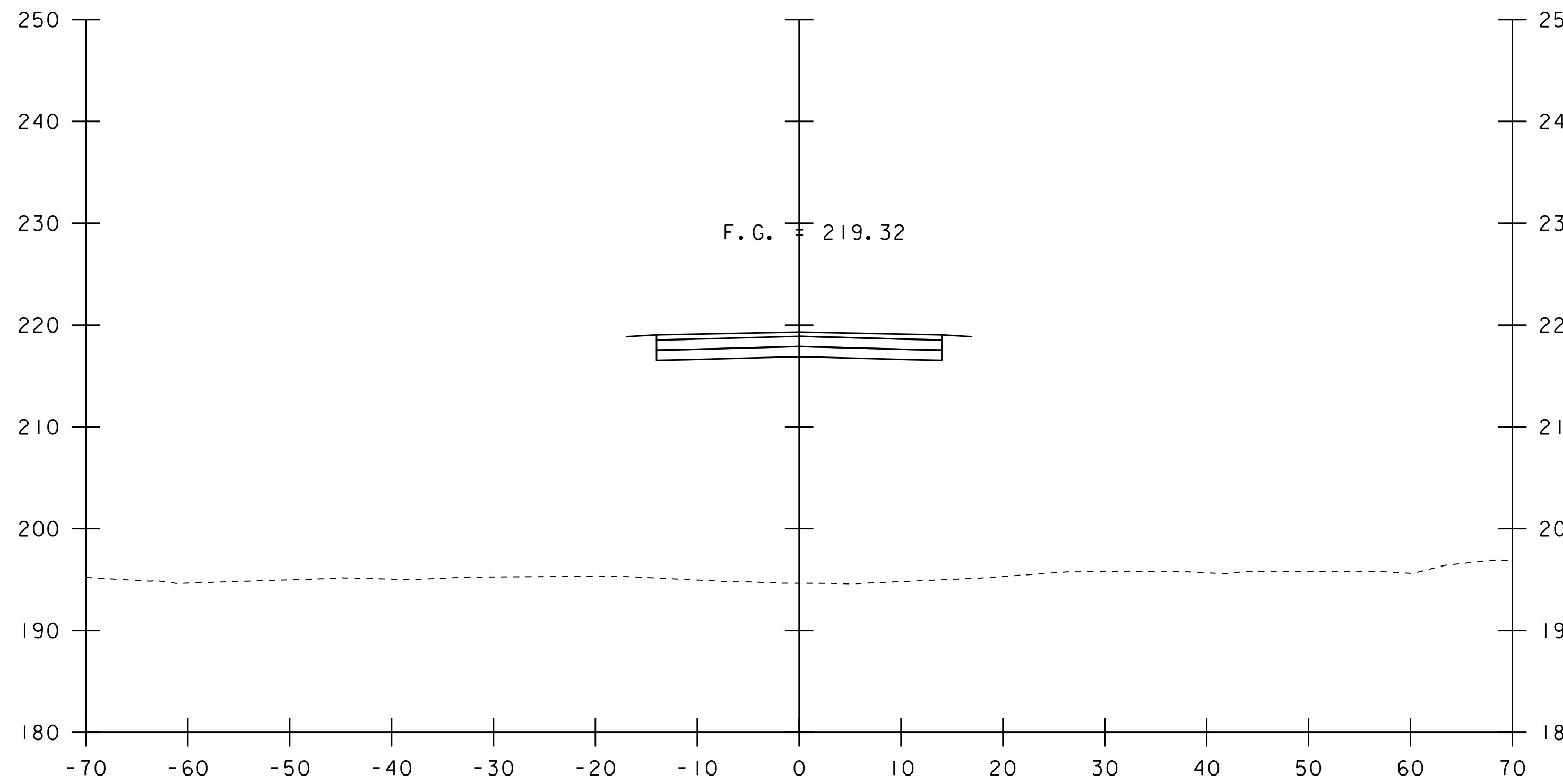
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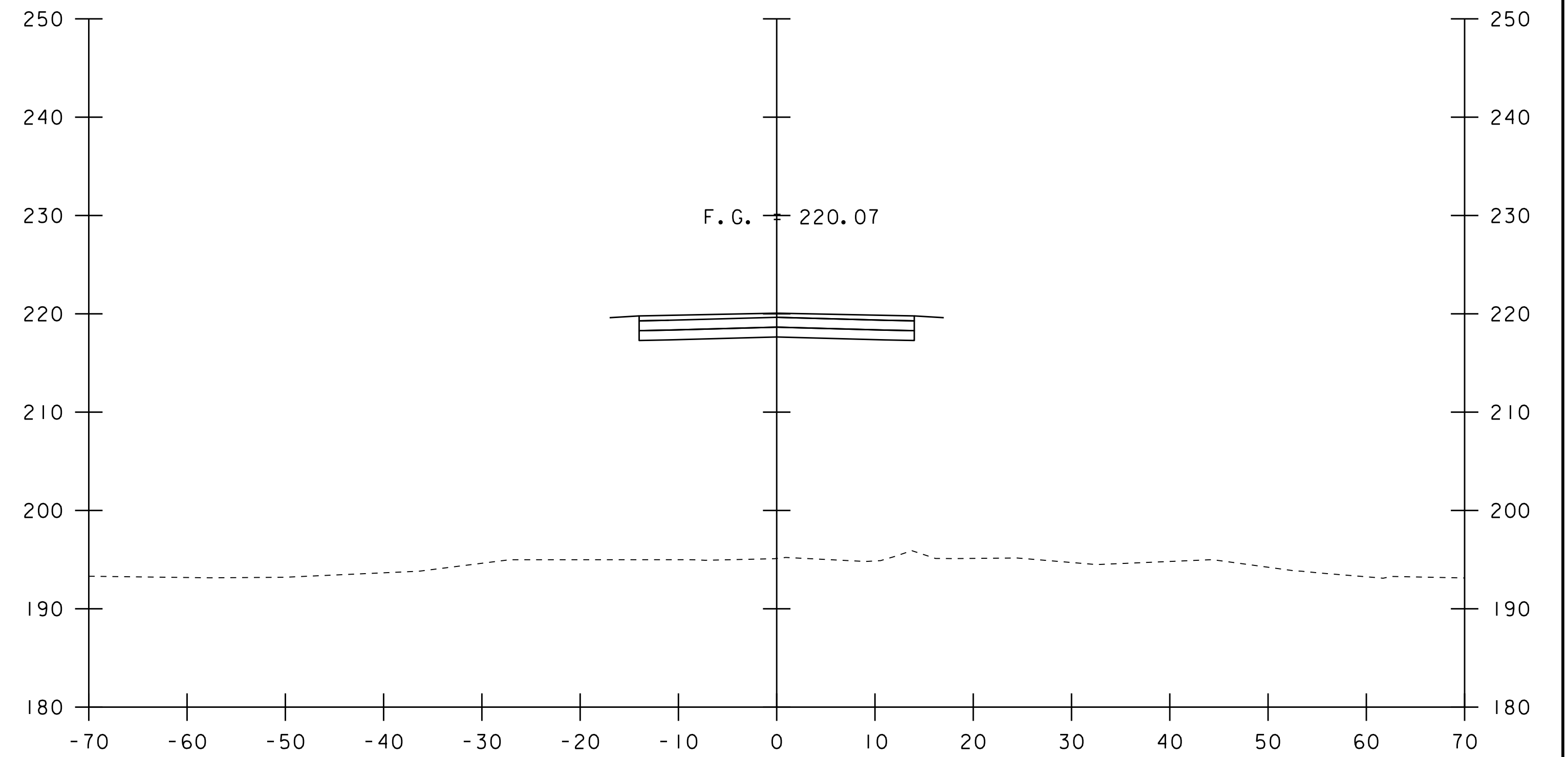
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STA. 15+00 TO STA. 15+75

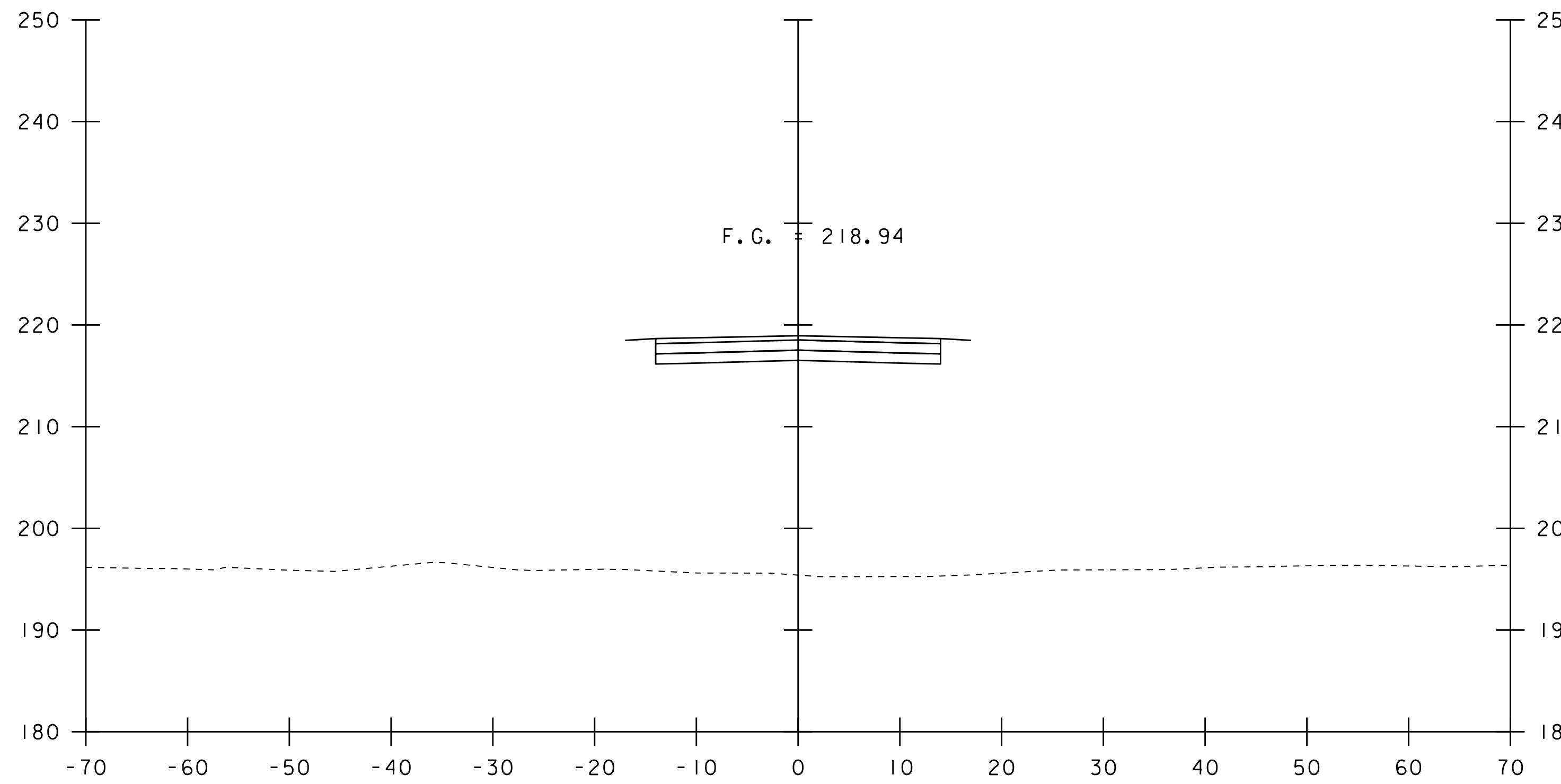
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PROJECT NUMBER: BO 1448 (43)	
FILE NAME: s98j378xs.StrAlign.dgn	PLOT DATE: 07-JAN-2016
PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 4	SHEET 10 OF 14



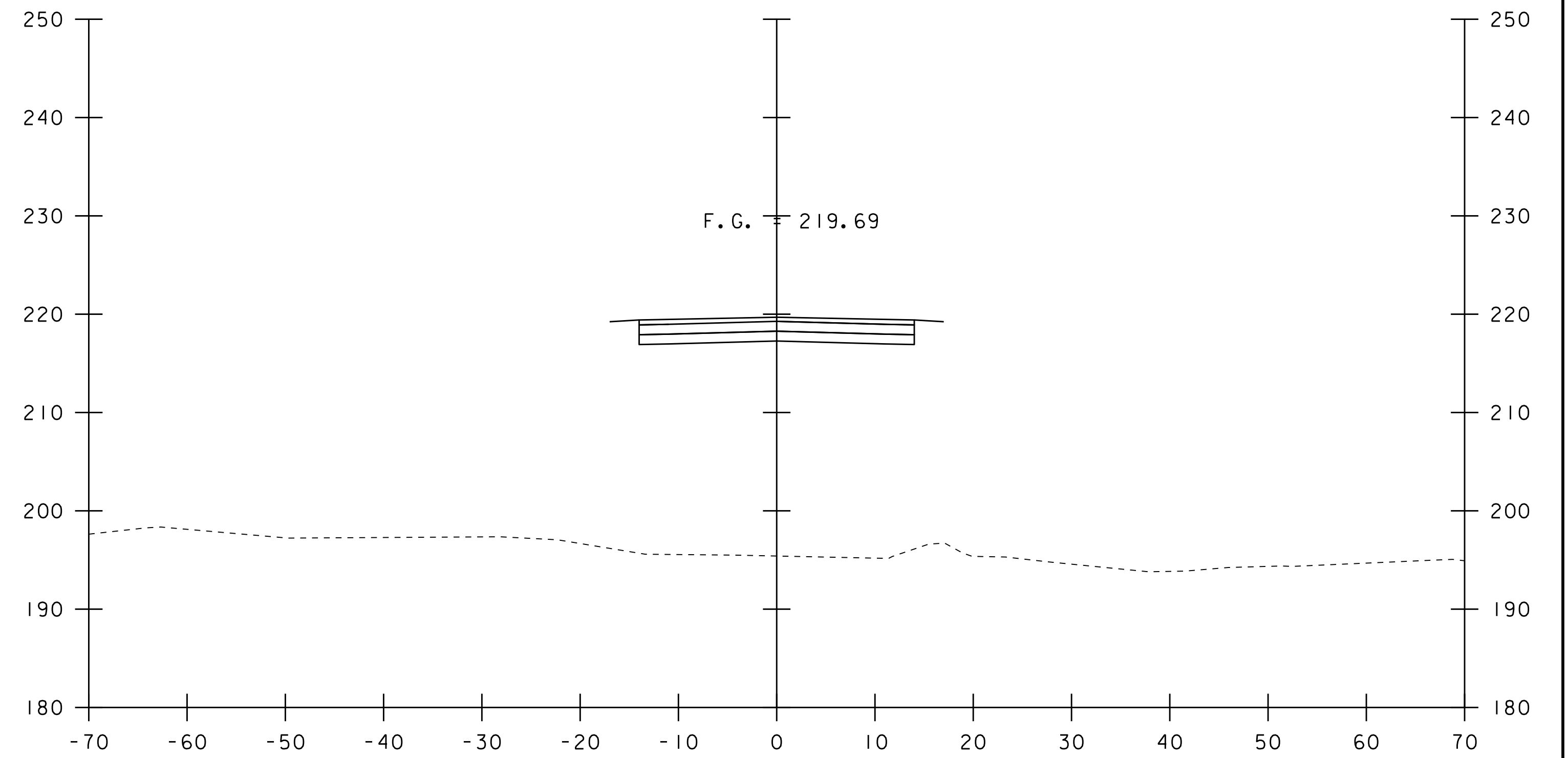
16+25



16+75



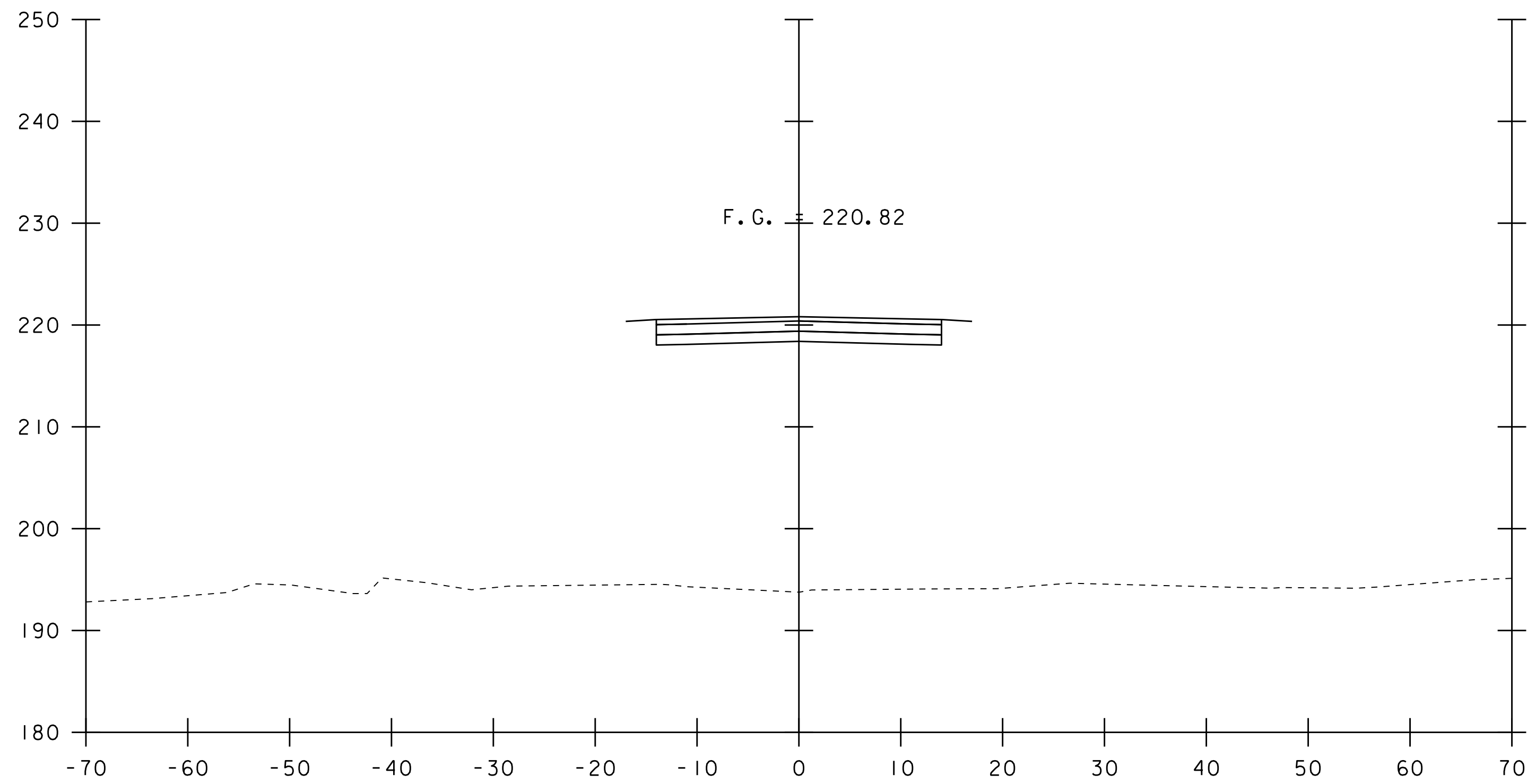
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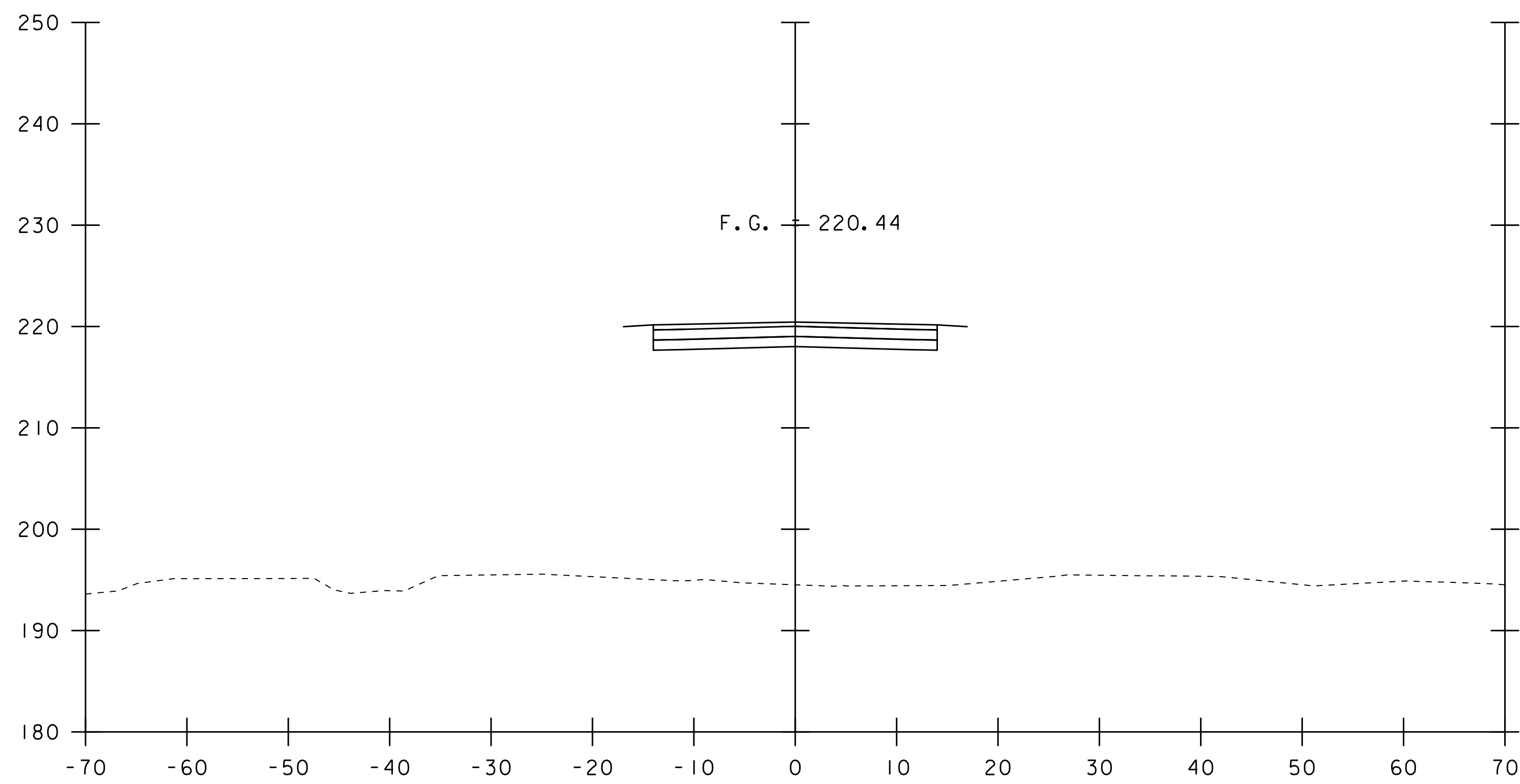
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STA. 16+00 TO STA. 16+75

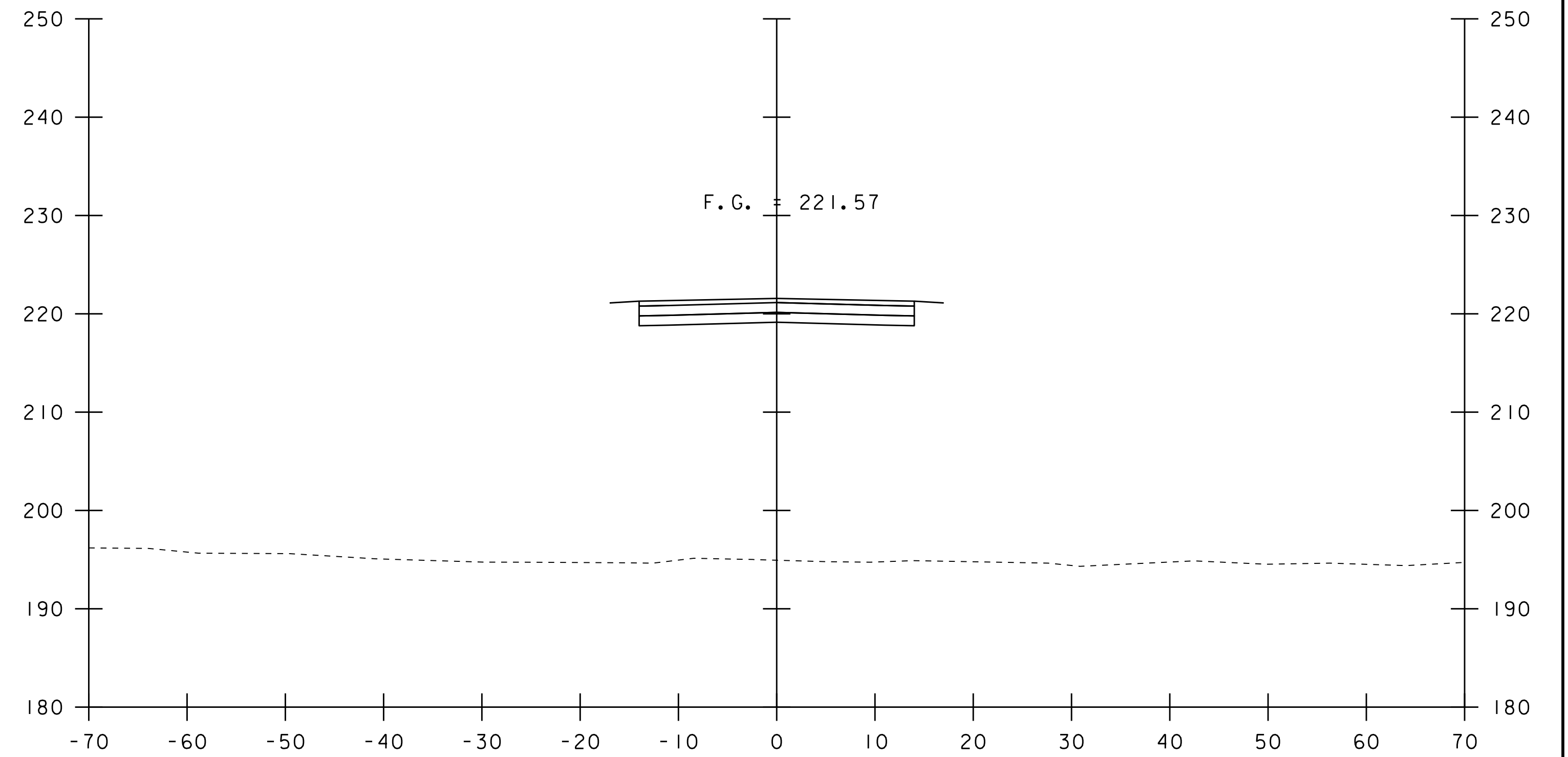
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PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 5	SHEET II OF 14



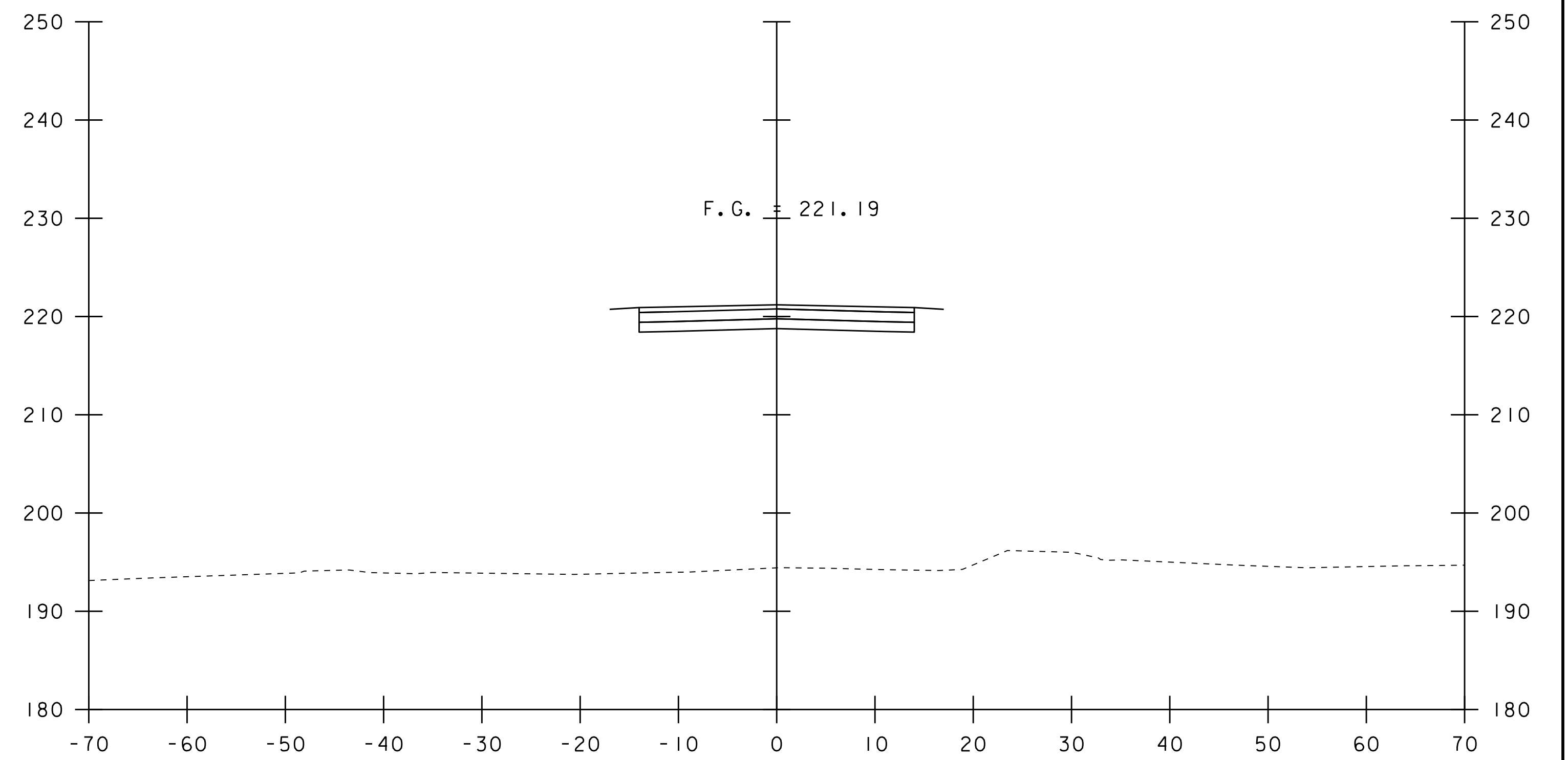
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17+00



17+75

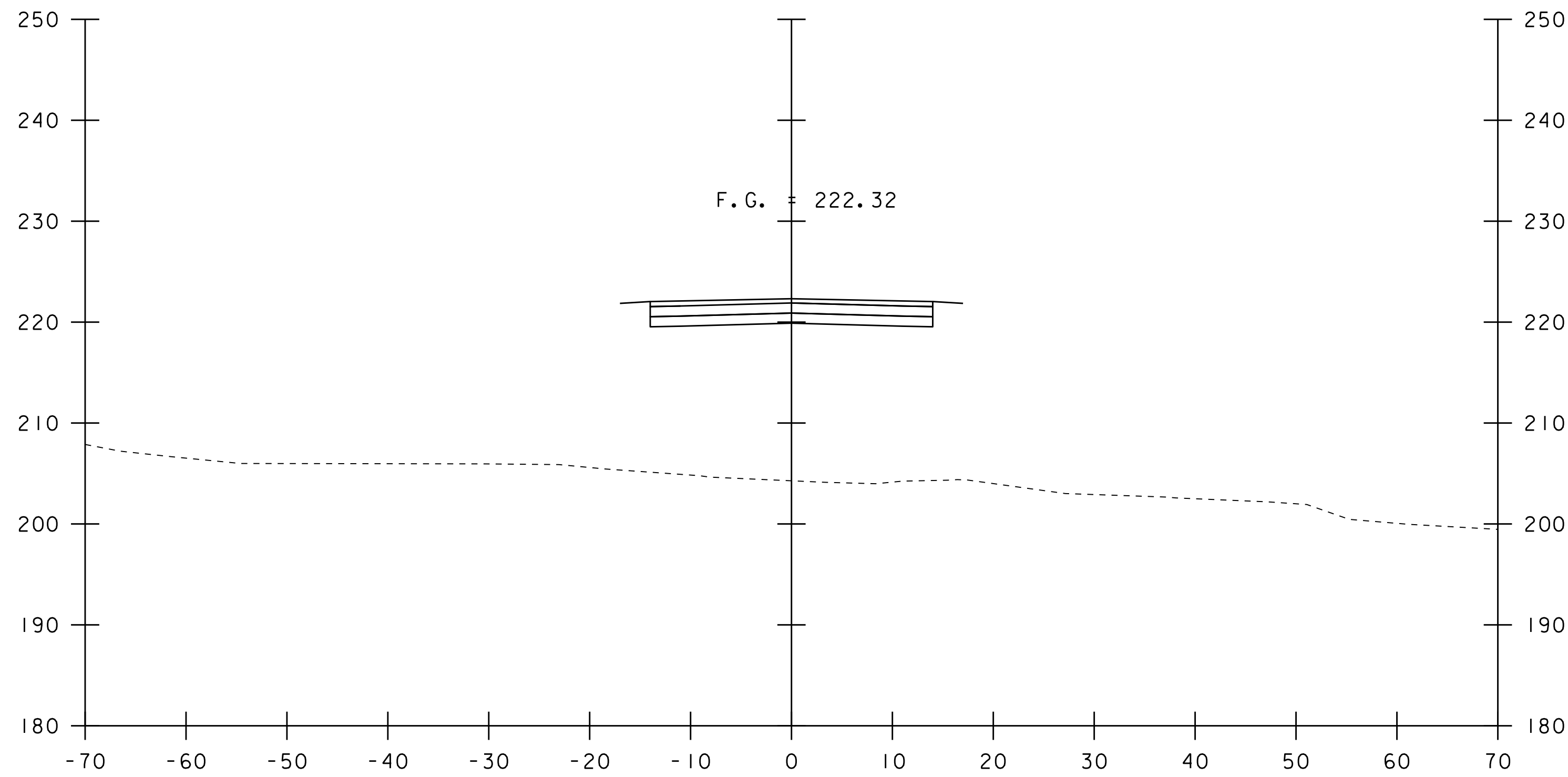


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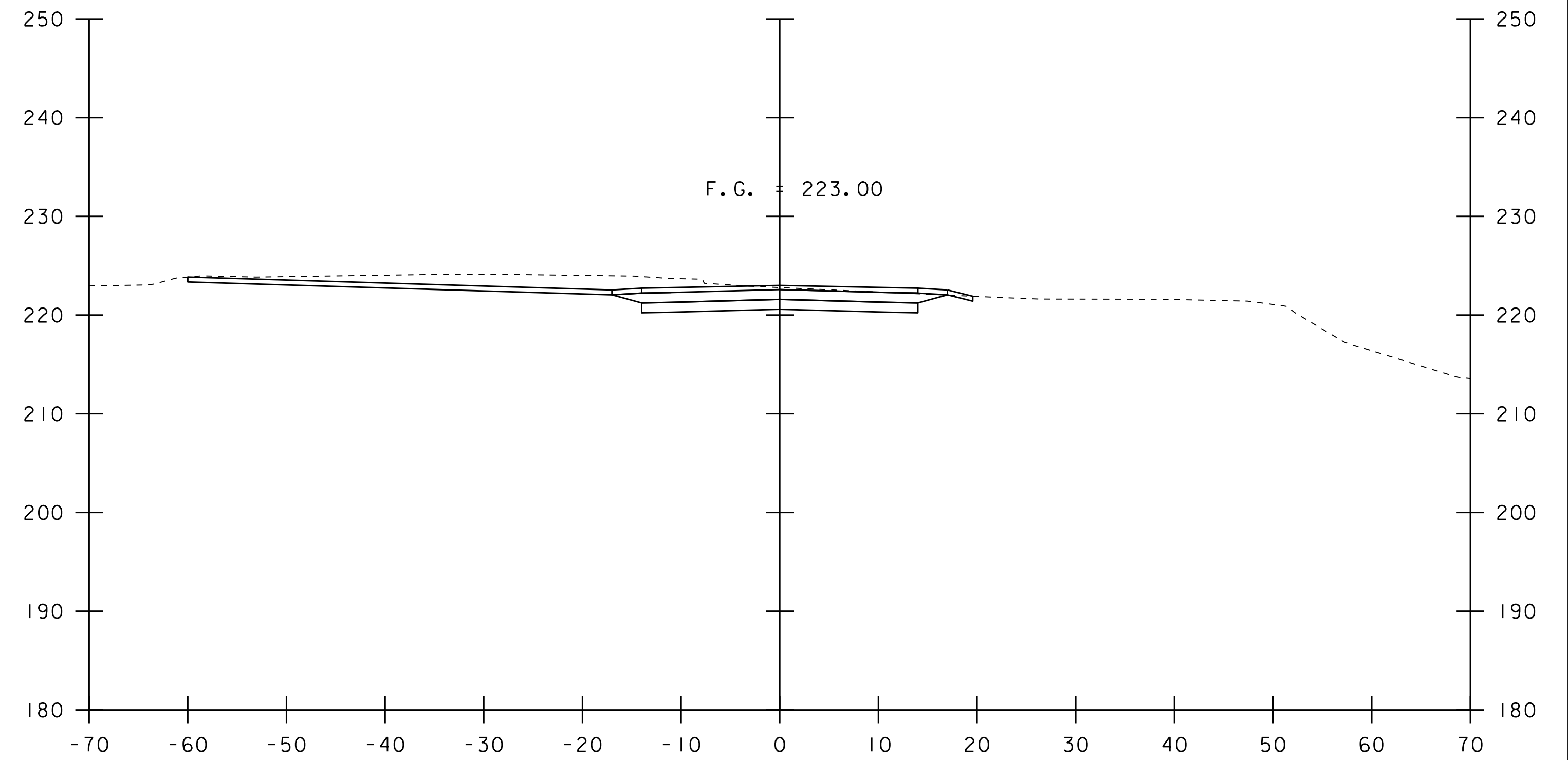
STA. 17+00 TO STA. 17+75

PROJECT NAME: HIGHGATE	
PROJECT NUMBER: BO 1448 (43)	
FILE NAME: s98j378xs.Str Align.dgn	PLOT DATE: 07-JAN-2016
PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 6	SHEET 12 OF 14

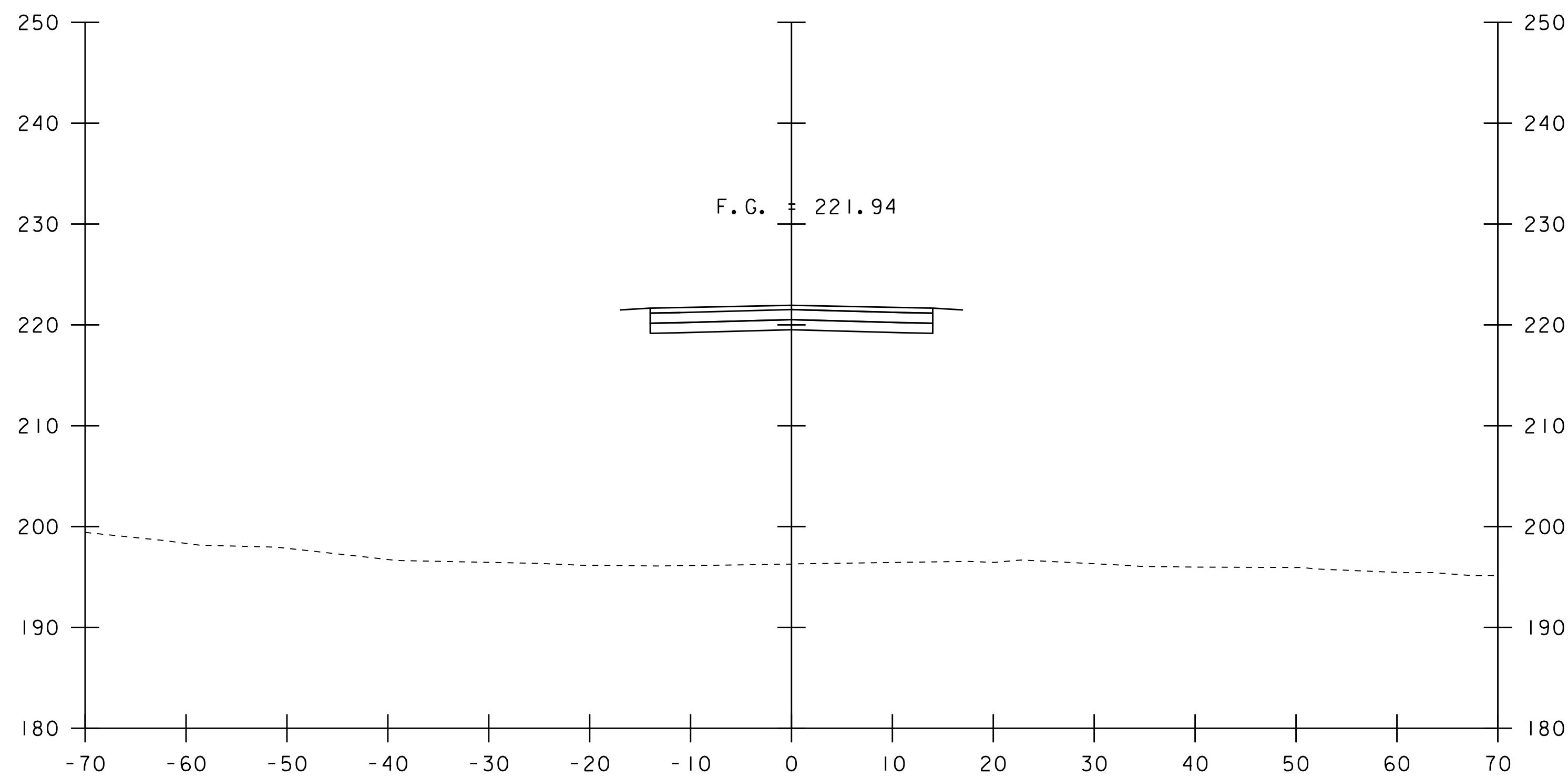




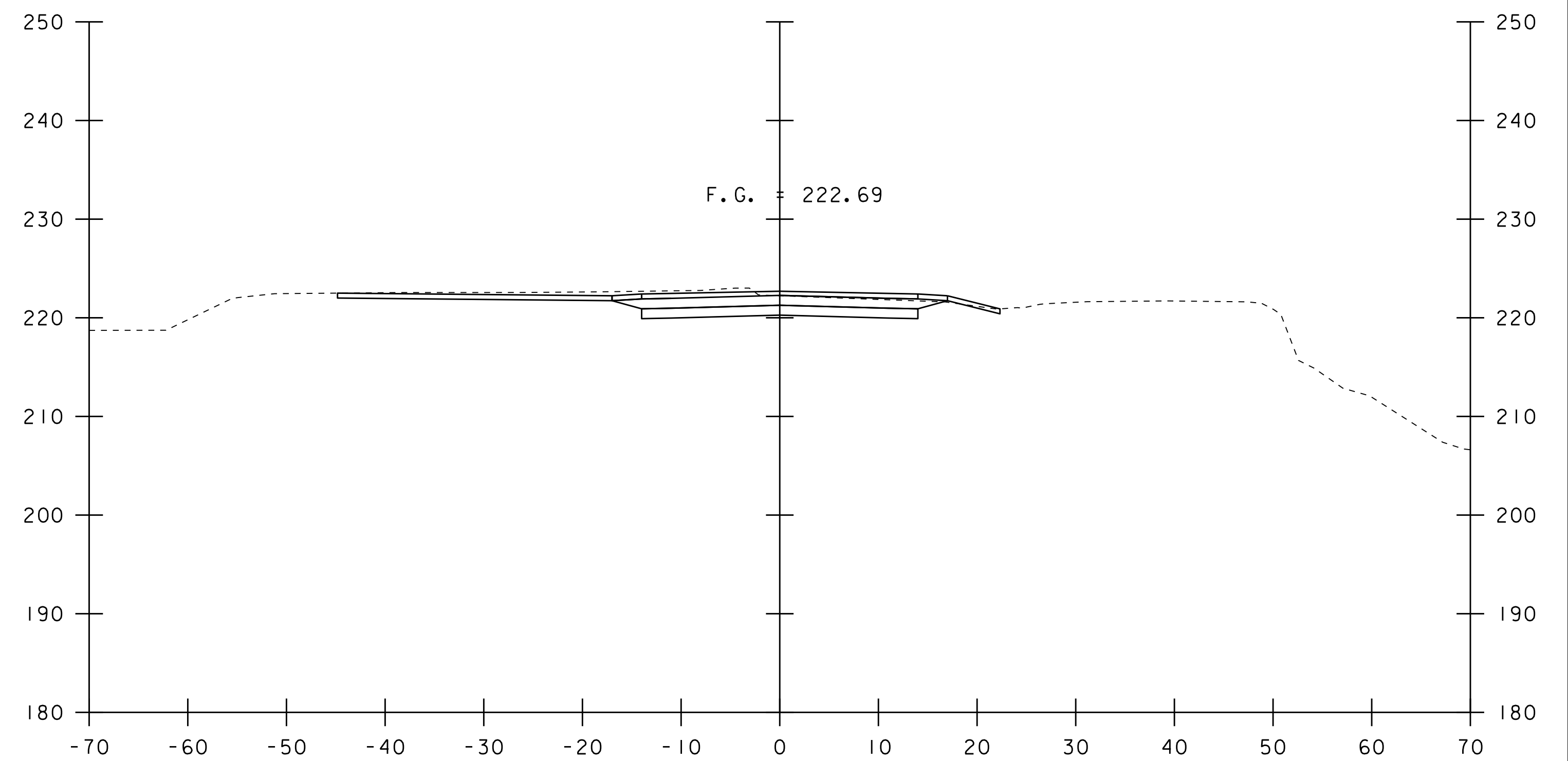
18+25



18+75



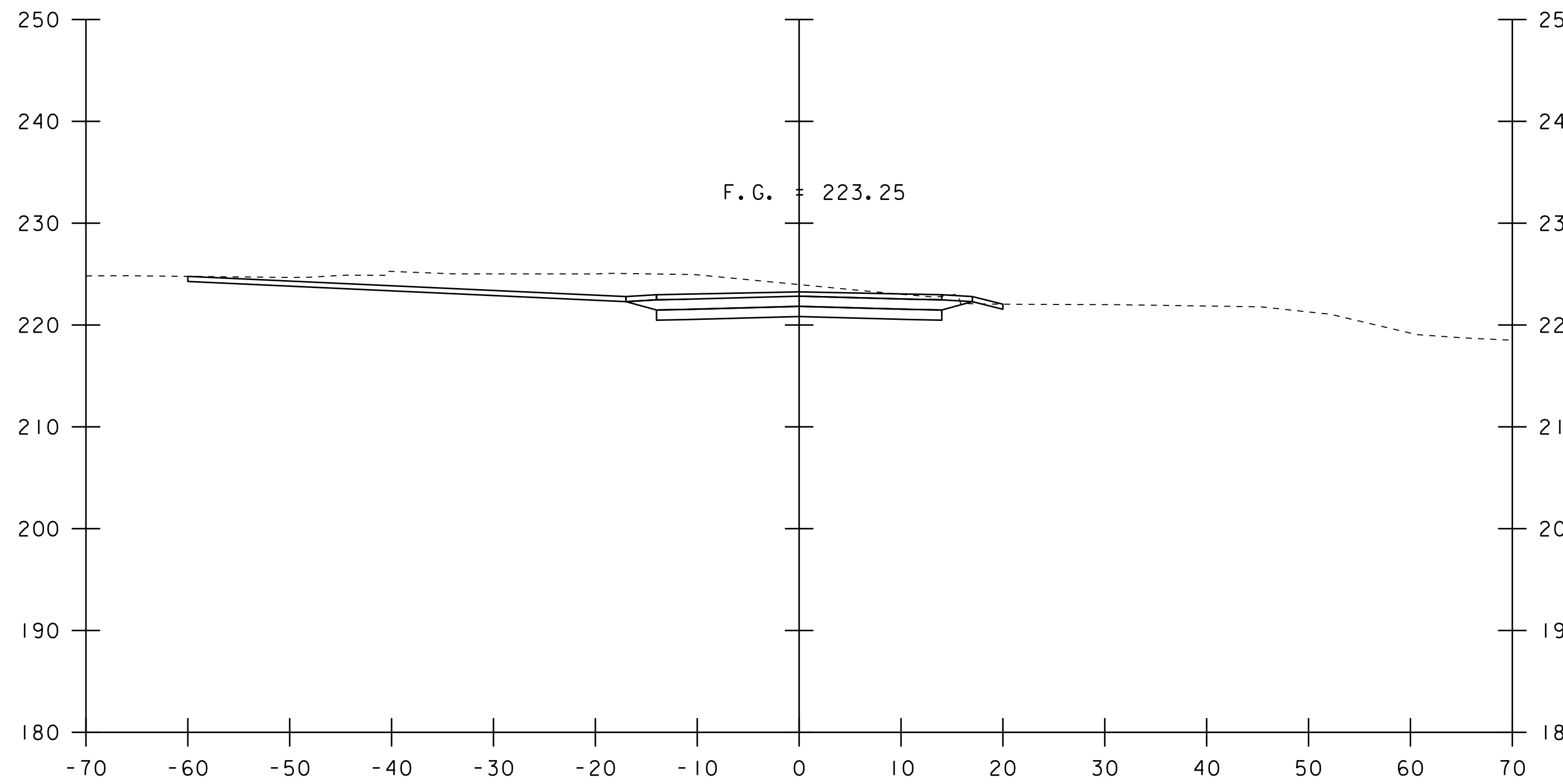
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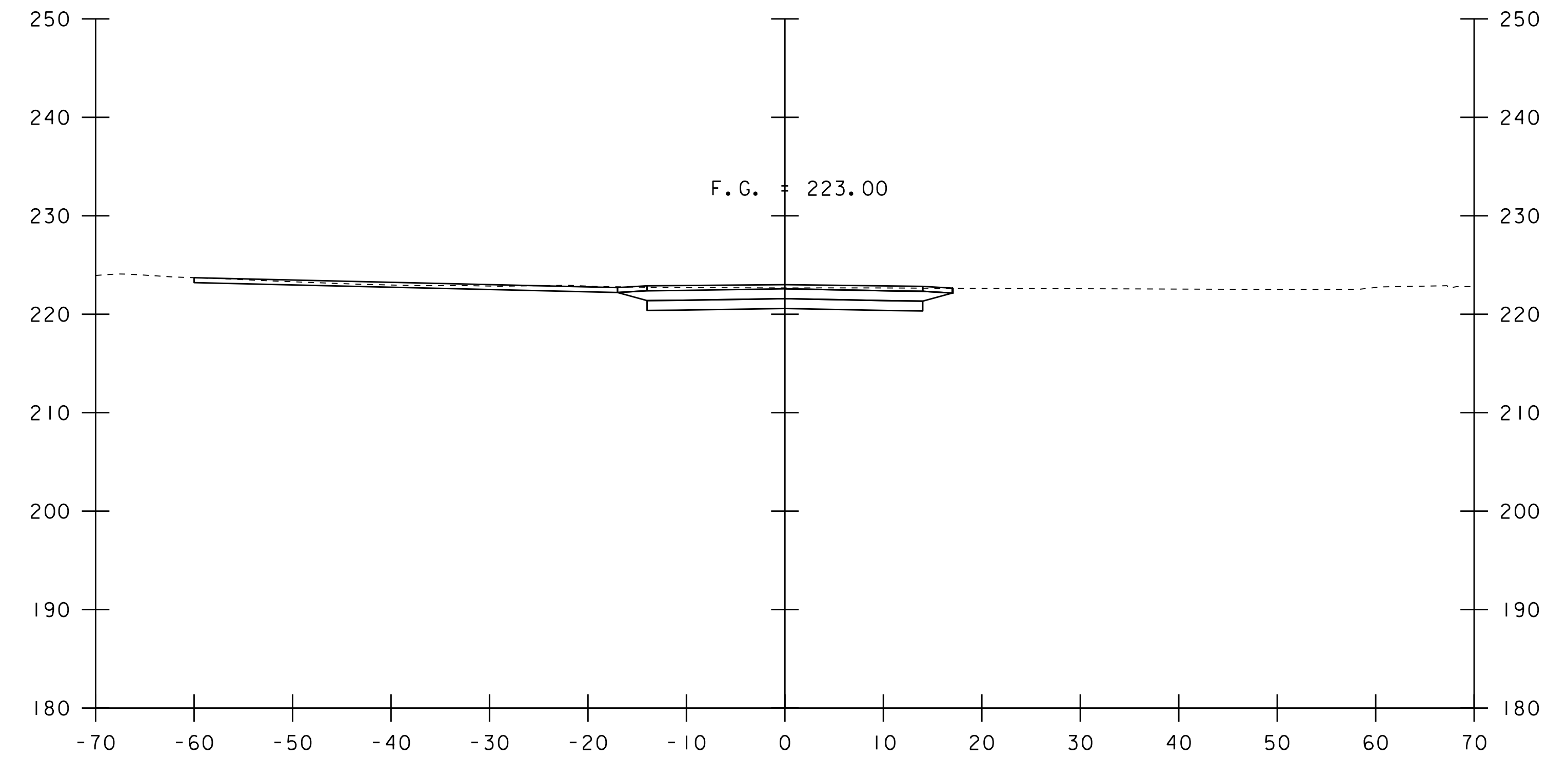
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STA. 18+00 TO STA. 18+75

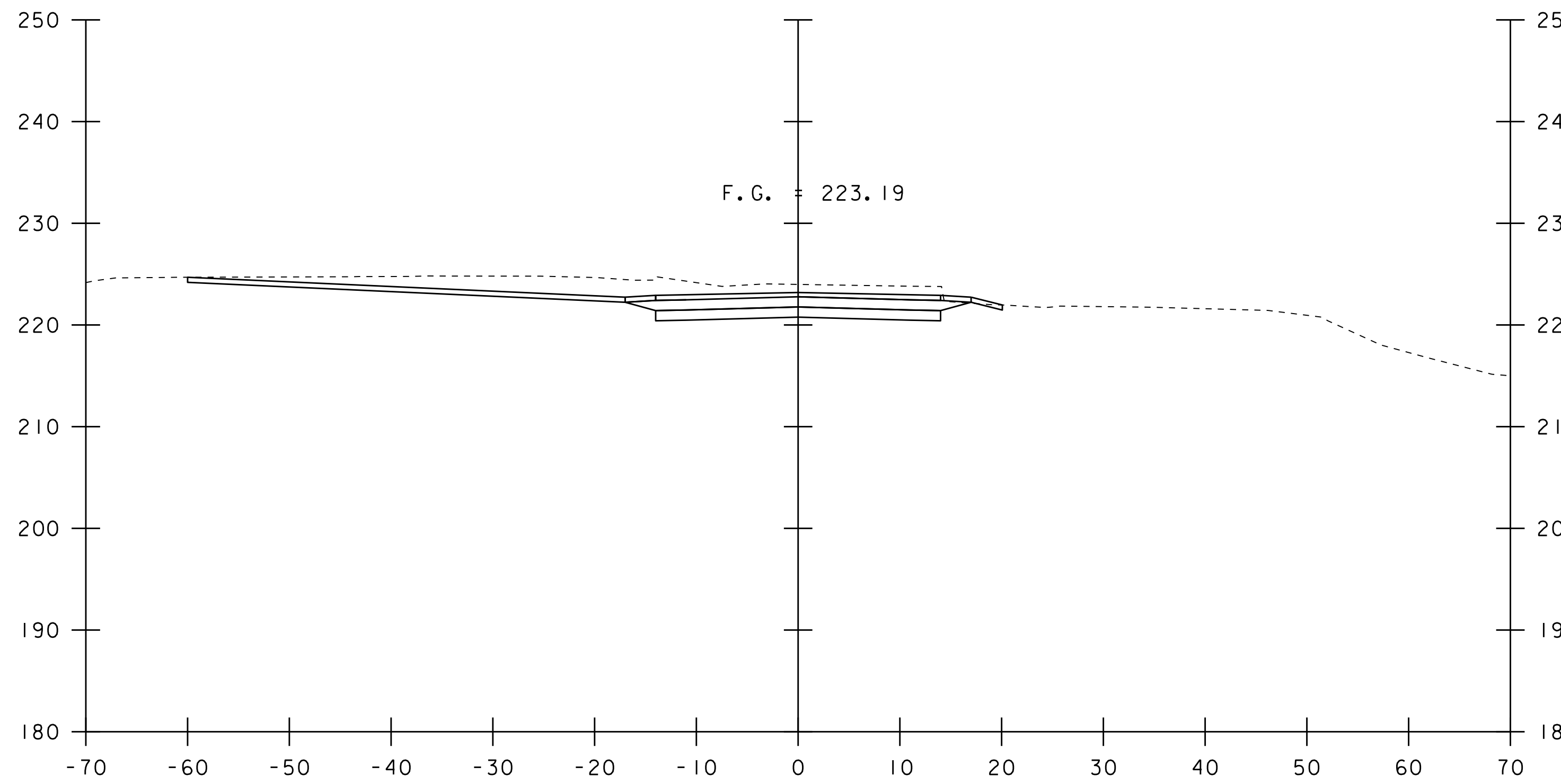
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FILE NAME: s98j378xs.Str Align.dgn	PLOT DATE: 07-JAN-2016
PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 7	SHEET 13 OF 14



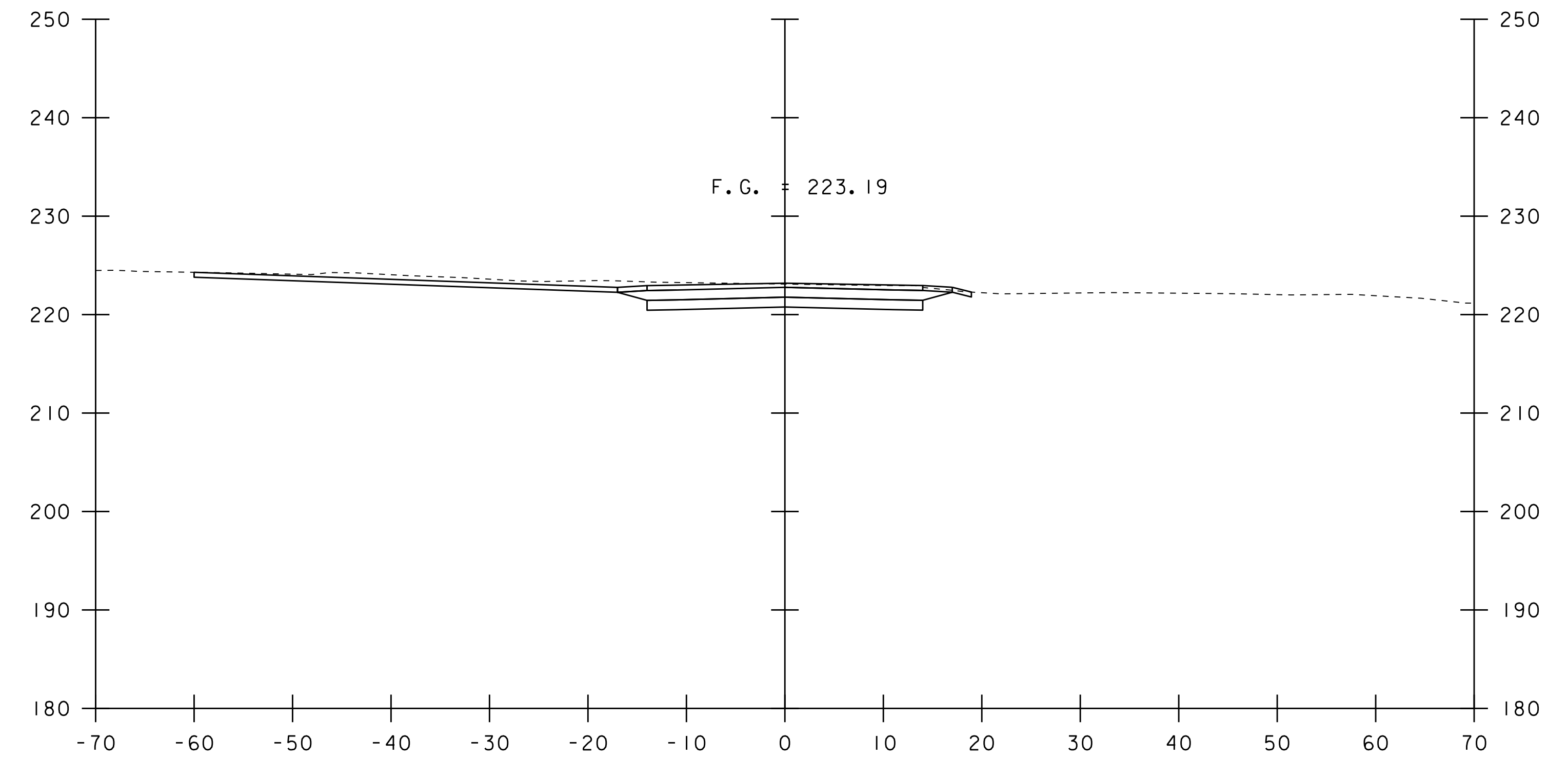
19+25



19+75



19+00



19+50

STA. 19+00 TO STA. 19+75

PROJECT NAME: HIGHGATE	
PROJECT NUMBER: BO 1448 (43)	
FILE NAME: s98j378xs.Str Align.dgn	PLOT DATE: 07-JAN-2016
PROJECT LEADER: D. BONNEAU	DRAWN BY: C. MOONEY
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAINLINE CROSS SECTION SHEET 8	SHEET 14 OF 14