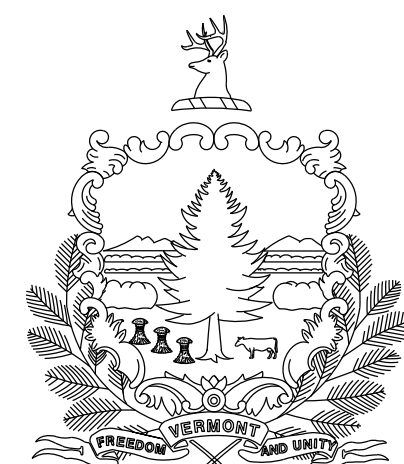


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

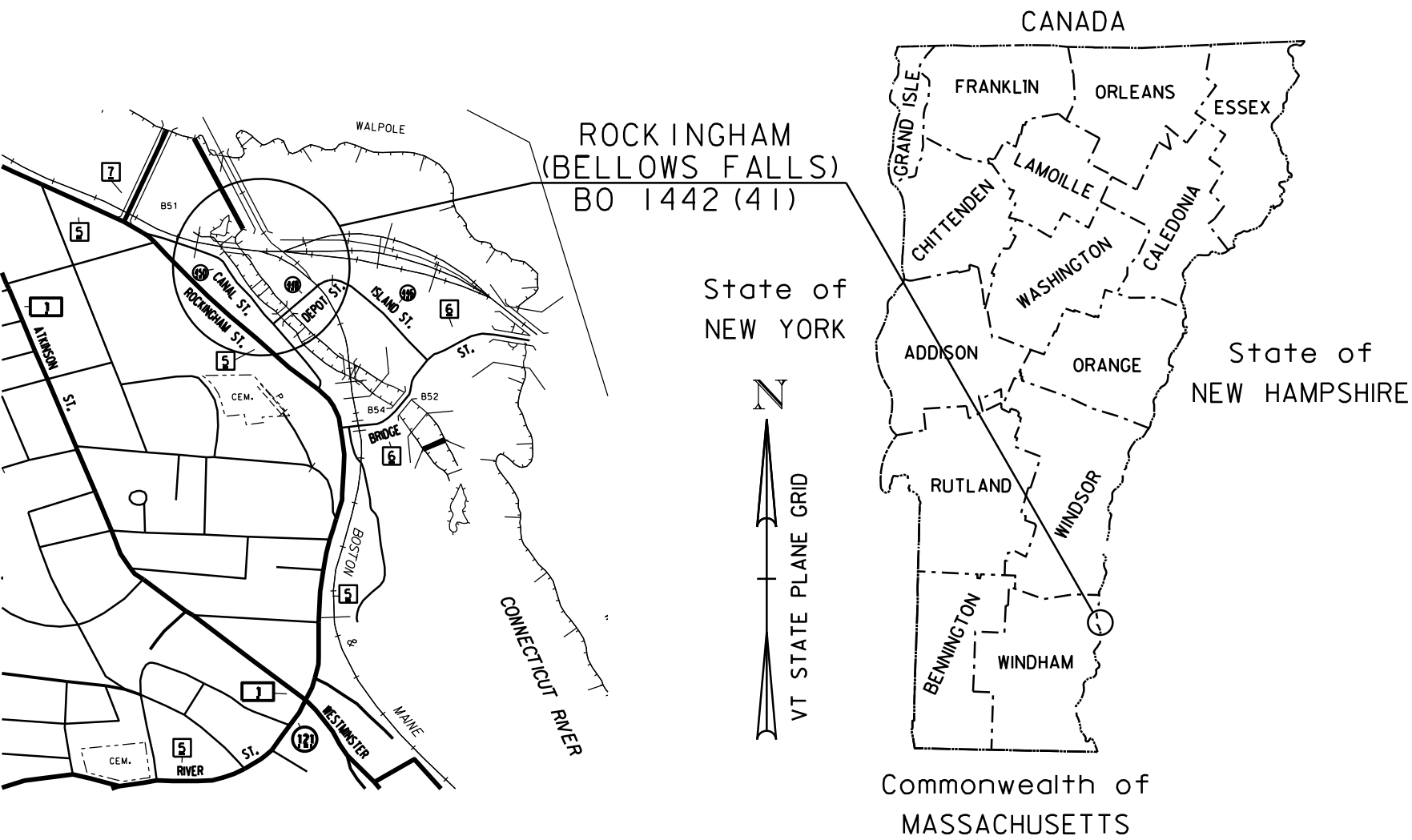
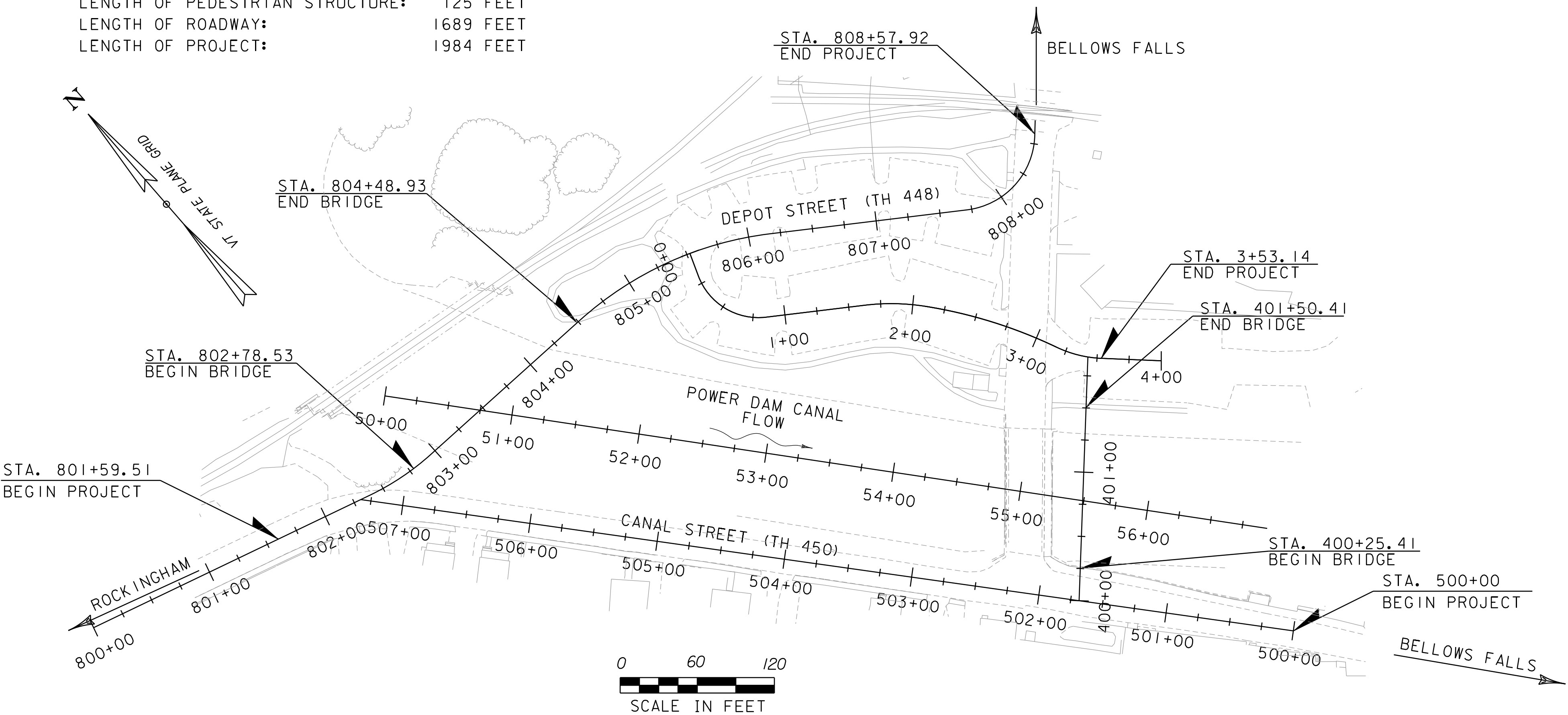
TOWN OF ROCKINGHAM
COUNTY OF WINDHAM

TH 448 DEPOT STREET (LOCAL ROAD) , BRIDGE NO. 53

PROJECT LOCATION: LOCATED IN THE COUNTY OF WINDHAM, IN THE TOWN OF ROCKINGHAM, IN THE VILLAGE OF BELLOWS FALLS, ON DEPOT STREET (TH 448); BRIDGE NO. 53 OVER THE POWER DAM CANAL; DIRECTLY ADJACENT TO THE INTERSECTION OF DEPOT ST (TH 448) AND CANAL ST (TH 450).

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE REMOVAL OF BRIDGE NO. 53, ADDITION OF A ROADWAY BRIDGE NORTH OF THE EXISTING BRIDGE, ADDITION OF A PEDESTRIAN BRIDGE SOUTH OF THE EXISTING BRIDGE, ASSOCIATED ROADWAY AND CHANNEL WORK, AND RECONFIGURATION OF DEPOT STREET AND EXISTING PARKING LOT ON THE EAST SIDE OF THE CANAL.

LENGTH OF ROADWAY STRUCTURE: 170 FEET
LENGTH OF PEDESTRIAN STRUCTURE: 125 FEET
LENGTH OF ROADWAY: 1689 FEET
LENGTH OF PROJECT: 1984 FEET



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 : VTRANS
SURVEYED DATE : 10/2017

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (2011)

CONCEPTUAL PLANS
NOVEMBER 2021

HIGHWAY DIVISION, CHIEF ENGINEER

APPROVED _____ DATE _____

PROJECT MANAGER : JON GRIFFIN, P.E.

PROJECT NAME : ROCKINGHAM (BELLOWS FALLS)
PROJECT NUMBER : BO 1442 (41)

SHEET 1 OF 43 SHEETS

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PLAN SHEETS					STANDARDS LIST					WATER SURFACE ELEVATIONS AND VELOCITIES ARE CONTROLLED BY THE OPERATION OF THE DAM DOWNSTREAM IN THE CANAL AND THE DAM UPSTREAM ON THE MAIN BRANCH OF THE CONNECTICUT RIVER. PER GREAT RIVER HYDRO, OWNER OF THE CANAL, MAXIMUM FLOW IN THE CANAL IS APPROXIMATELY 6.5 FEET PER SECOND. TRAFFIC MAINTENANCE NOTES DESIGN VALUES FABRICATOR RESPONSIBLE FOR LOAD RATINGS LRFR LOAD RATING FACTORS LOADING LEVELS TONNAGE INVENTORY POSTING OPERATING COMMENTS: 23. 24. 25. 26. PROJECT NAME: ROCKINGHAM (BELLOWS FALLS) PROJECT NUMBER: BO 1442(41) FILE NAME: z16j181pl.dgn PROJECT LEADER: S.E. BURBANK DESIGNED BY: R.J. FORBES PRELIMINARY INFORMATION SHEET PLOT DATE: 11/23/2021 DRAWN BY: R.J. FORBES CHECKED BY: K.C. BARRY SHEET 2 OF 43									
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DETAIL SHEETS																			
HSD-400.01 SAFETY EDGE DETAILS 1/5/2018																			
TRAFFIC DATA										AS BUILT "REBAR" DETAIL									
YEAR ADT DHV % D % T ADTT 20 year ESAL for flexible pavement from 2022 to 2042 : 120000 40 year ESAL for flexible pavement from 2022 to 2062 : 244000 Design Speed : 25 mph										LEVEL I TYPE: GRADE: LEVEL II TYPE: GRADE: LEVEL III TYPE: GRADE:									



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
■	BDNS	BOUND SET
▣	BDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌘	APL	BOUND APPARENT LOCATION
▣	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⌘	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⌘	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
⌘	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
⌘	GV	GATE VALVE
⌘	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⌘	LI	LIGHT - STREET OR YARD
⌘	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⌘	RRSIG	RAILROAD SIGNAL
⌘	RRSL	RAILROAD SWITCH LEVER
⌘	S	TREE SOFTWOOD
⌘	SAT	SATELLITE DISH
⌘	SHRUB	SHRUB
⌘	SIGN	SIGN
⌘	STUMP	STUMP
⌘	TEL	TELEPHONE POLE
⊙	TIE	TIE
⌘	TSIGN	SIGN W/DOUBLE POST
⌘	VCTRL	CONTROL VERTICAL
⊙	WELL	WELL
⌘	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLGY

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

ABOVE GROUND UTILITIES (AERIAL)	
— AGU —	UTILITY (GENERIC-UNKNOWN)
— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEPHONE
— ... —	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY	
— -- -- CZ — -- --	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES	
△ — △ — △ — △	TOP OF CUT SLOPE
○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH
=====	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF ——— PDF ———	PROJECT DEMARCATION FENCE
BF — x — x — x — BF — x — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	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 ——— P —	PROPERTY LINE (P/L)
— L ——— L —	
△ — SR — ○ — SR — △ — SR — ○	SLOPE RIGHTS
6f ——— 6f ———	6F PROPERTY BOUNDARY
4f ——— 4f ———	4F PROPERTY BOUNDARY
HAZ ——— HAZ ———	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES	
ONNOONNOONNO	FILTER CURTAIN
▣	SILT FENCE, TYPE I
▣ x ▣ x ▣ x ▣ x	SILT FENCE, TYPE II
▶ —▶ —▶ —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING
SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY	

ENVIRONMENTAL RESOURCES	
—————	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
—— T&E ——	THREATENED & ENDANGERED SPECIES
HAZ ——— HAZ ———	HAZARDOUS WASTE AREA
—— AG ——	AGRICULTURAL LAND
—— HABITAT ——	FISH & WILDLIFE HABITAT
—— FLOOD PLAIN ——	FLOOD PLAIN
— OHW —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
— - - - -	USDA FOREST SERVICE LANDS
— ... —	WILDLIFE HABITAT SUIT/CONN

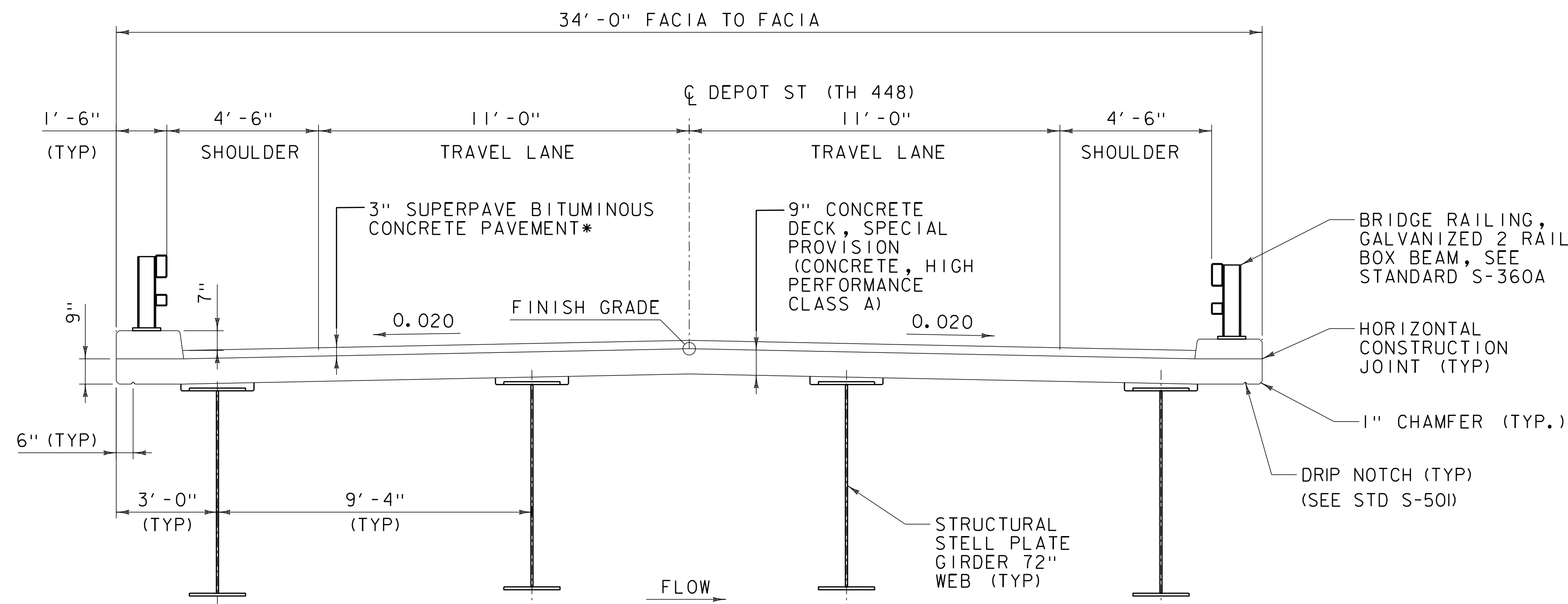
ARCHEOLOGICAL & HISTORIC	
—— ARCH ——	ARCHEOLOGICAL BOUNDARY
—— HISTORIC DIST ——	HISTORIC DISTRICT BOUNDARY
—— HISTORIC ——	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY	
EXISTING FEATURES	
-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
—————	FOUNDATION
x — x — x — x —	FENCE (EXISTING)
▣ — ▣ — ▣ — ▣ —	FENCE WOOD POST
○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~~	GARDEN
— ○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○○○○○○○○○○○○○○○○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
=====	BODY OF WATER EDGE
=====	LEDGE EXPOSED

PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j18legend.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: VTRANS
DESIGNED BY: VTRANS	CHECKED BY: VTRANS
CONVENTIONAL SYMBOLGY LEGEND	SHEET 3 OF 43

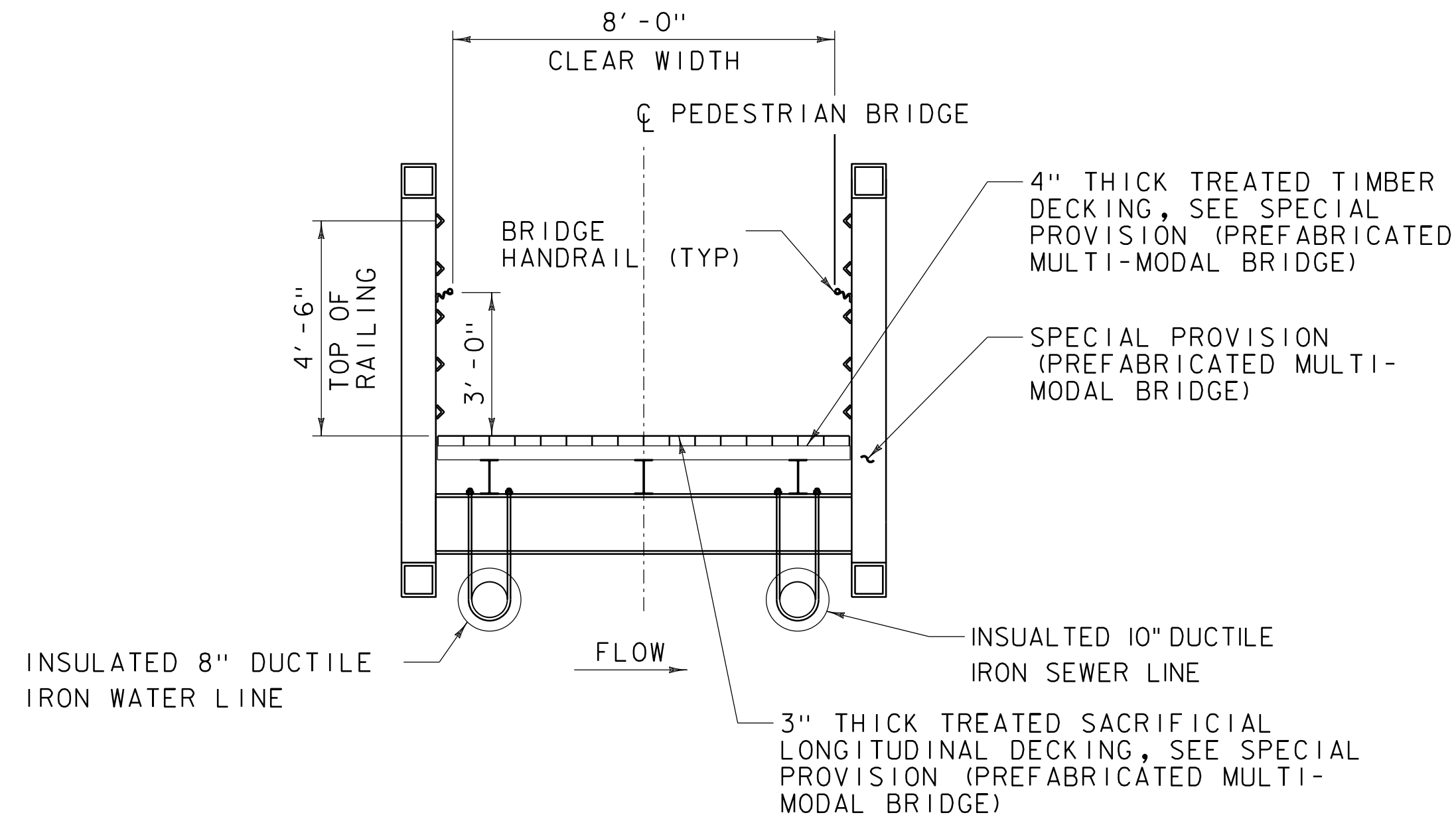


MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



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

* - (2) - 1 1/2" LIFTS OF TYPE IVS



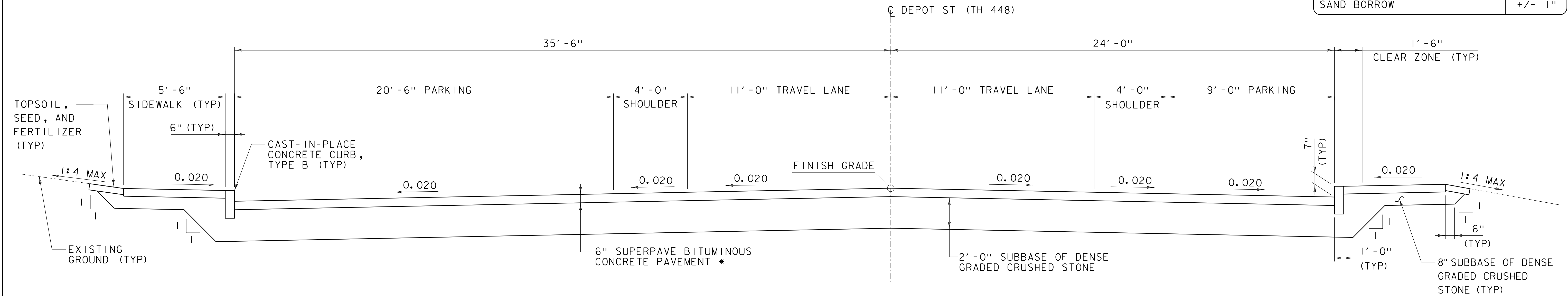
PREFABRICATED MULTI-MODAL BRIDGE TYPICAL SECTION  
SCALE: 3/8" = 1'-0"

* DEPTH TO BRIDGE SEAT IS ASSUMED.  
ACTUAL DEPTH TO BE DETERMINED BY  
MULTI-MODAL BRIDGE FABRICATOR

PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)
PROJECT NUMBER:	BO 1442(4I)
FILE NAME:	z16j181typ.dgn
PROJECT LEADER:	S.E. BURBANK
DESIGNED BY:	R.J. FORBES
TYPICAL BRIDGE SECTIONS	
PLOT DATE:	11/23/2021
DRAWN BY:	R.J. FORBES
CHECKED BY:	K.C. BARRY
SHEET	4 OF 43



MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

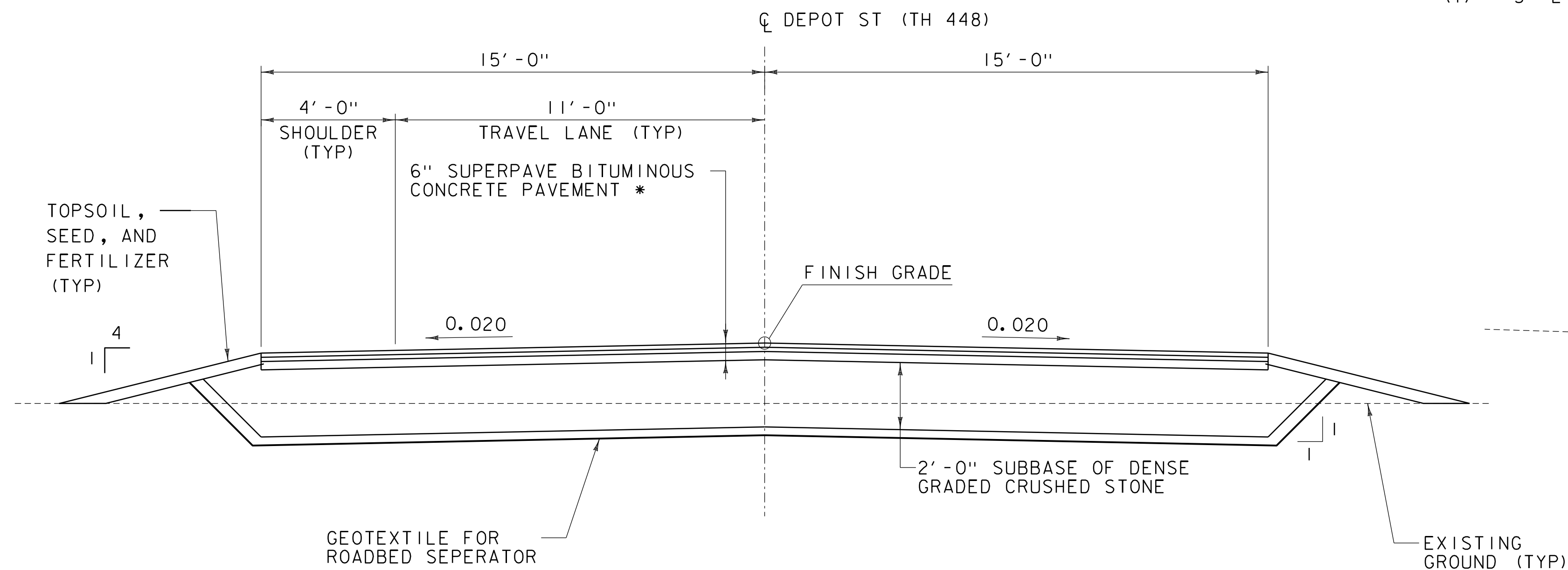


### DEPOT ST (TH 448) TYPICAL SECTION

SCALE 3/8" = 1'-0"

STA 806+05 - 807+72

* - (2) - 1 1/2" LIFTS OF TYPE IVS  
(1) - 3" LIFT OF TYPE IIS

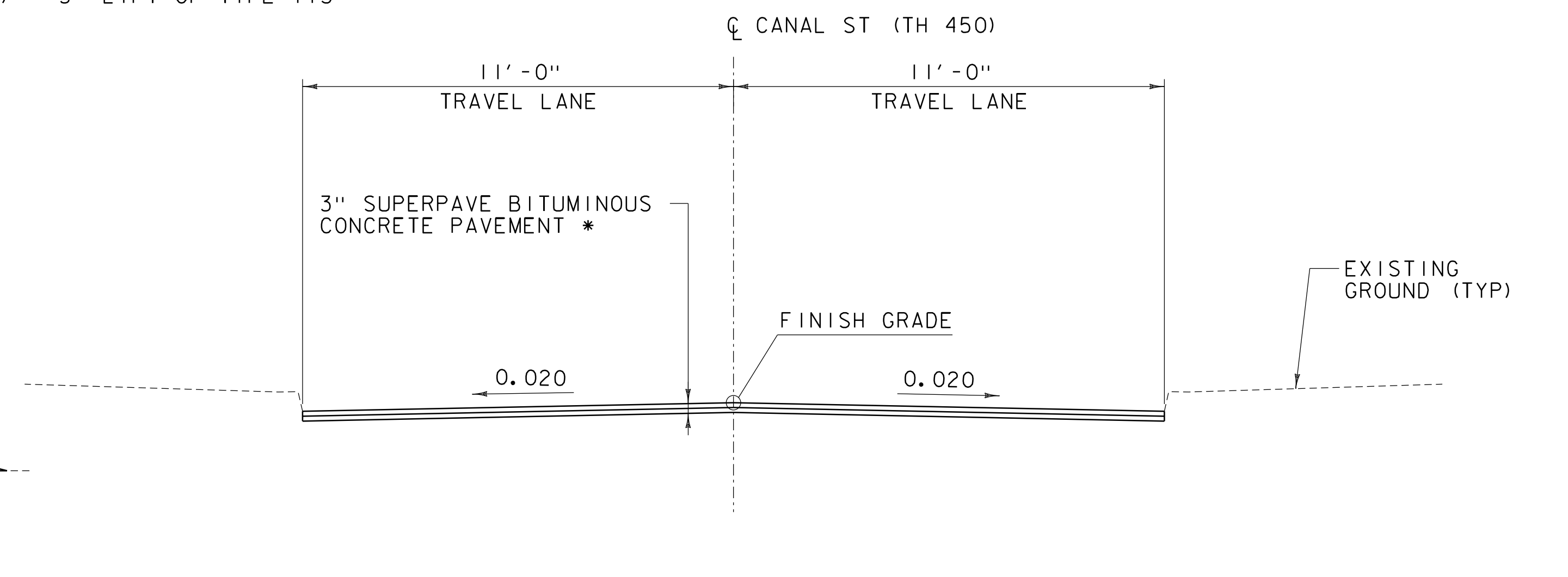


### DEPOT ST (TH 448) TYPICAL ROADWAY SECTION

SCALE 3/8" = 1'-0"

STA 801+60 - 802+78  
STA 804+48 - 806+05

* - (2) - 1 1/2" LIFTS OF TYPE IVS  
(1) - 3" LIFT OF TYPE IIS



### CANAL ST (TH 450) COARSE-MILLING TYPICAL SECTION

SCALE 3/8" = 1'-0"

STA 500+00 - 506+48

* - (2) - 1 1/2" LIFTS OF TYPE IVS



PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)
PROJECT NUMBER:	BO 1442(41)
FILE NAME:	z16j181typ.dgn
PROJECT LEADER:	S.E. BURBANK
DESIGNED BY:	R.J. FORBES
TYPICAL ROADWAY SECTIONS	
PLOT DATE:	11/23/2021
DRAWN BY:	R.J. FORBES
CHECKED BY:	K.C. BARRY
SHEET	5 OF 43

DEPOT STREET ALIGNMENT

Element: Linear	Station	Northing	Easting
POB	800+00.00	232021.9193	1654385.1279
PC	802+38.67	231958.5003	1654615.2143
Tangential Direction:	S74°35'24.46"E		
Tangential Length:	238.67		
Element: Circular			
PC	802+38.67	231958.5003	1654615.2143
PI	802+67.42	231950.8588	1654642.9378
CC		232151.3102	1654668.3587
PT	802+95.79	231951.3380	1654671.6913
Radius:	200		
Delta:	16°21'52.63"	Left	
Degree of Curvature (Arc):	28°38'52.40"		
Length:	57.12		

Tangent:	28.76
Chord:	56.93
Middle Ordinate:	2.04
External:	2.06
Back Tangent Direction:	S74°35'24.46"E
Back Radial Direction:	S15°24'35.54"W
Chord Direction:	S82°46'20.78"E
Ahead Radial Direction:	S00°57'17.09"E
Ahead Tangent Direction:	N89°02'42.91"E

Element: Linear	Station	Northing	Easting
PT	802+95.79	231951.3380	1654671.6913
PC	804+51.70	231953.9359	1654827.5828
Tangential Direction:	N89°02'42.91"E		
Tangential Length:	155.91		
Element: Circular			
PC	804+51.70	231953.9359	1654827.5828
PI	805+36.97	231955.3567	1654912.8418
CC		231683.9734	1654832.0817
PT	806+16.89	231907.5513	1654983.4518
Radius:	270		
Delta:	35°03'14.87"	Right	
Degree of Curvature (Arc):	21°13'14.37"		
Length:	165.19		

Tangent:	85.27
Chord:	162.62
Middle Ordinate:	12.53
External:	13.15
Back Tangent Direction:	N89°02'42.91"E
Back Radial Direction:	S00°57'17.09"E
Chord Direction:	S73°25'39.66"E
Ahead Radial Direction:	S34°05'57.78"W
Ahead Tangent Direction:	S55°54'02.22"E

Element: Linear	Station	Northing	Easting
PT	806+16.89	231907.5513	1654983.4518
PC	807+71.25	231821.0160	1655111.2669
Tangential Direction:	S55°54'02.22"E		
Tangential Length:	154.35		
Element: Circular			
PC	807+71.25	231821.0160	1655111.2669
PI	808+22.85	231792.0850	1655153.9987
CC		231870.7000	1655144.9047
PT	808+56.48	231830.0077	1655188.9971
Radius:	60		
Delta:	81°23'45.19"	Left	
Degree of Curvature (Arc):	95°29'34.68"		
Length:	85.24		

Tangent:	51.6
Chord:	78.25
Middle Ordinate:	14.51
External:	19.14
Back Tangent Direction:	S55°54'02.22"E
Back Radial Direction:	S34°05'57.78"W
Chord Direction:	N83°24'05.18"E
Ahead Radial Direction:	S47°17'47.41"E
Ahead Tangent Direction:	N42°42'12.59"E

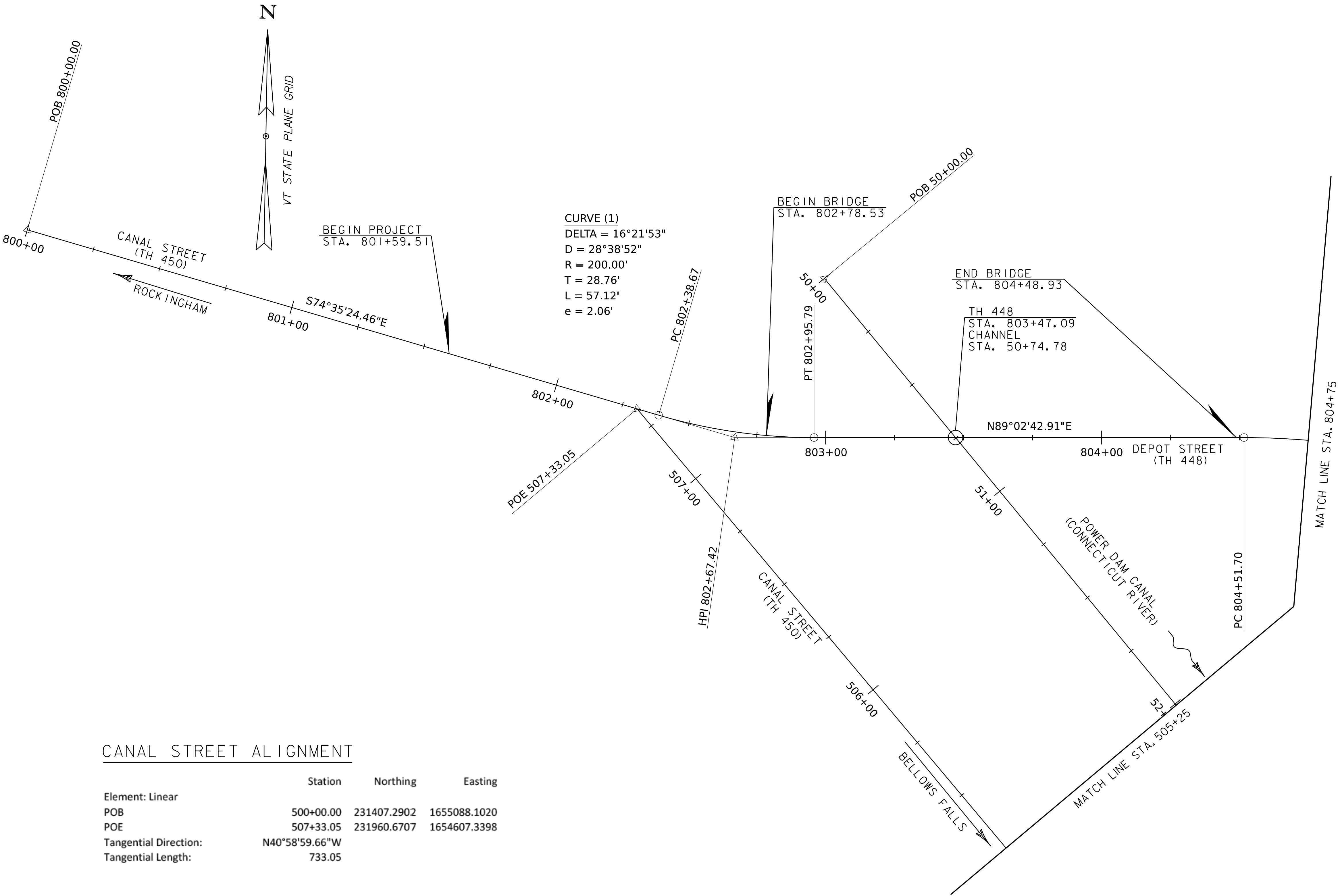
Element: Linear	Station	Northing	Easting
PT	808+56.48	231830.0077	1655188.9971
POE	808+68.34	231838.7205	1655197.0379
Tangential Direction:	N42°42'12.59"E		
Tangential Length:	11.86		

CANAL STREET ALIGNMENT

Element: Linear	Station	Northing	Easting
POB	500+00.00	231407.2902	1655088.1020
POE	507+33.05	231960.6707	1654607.3398
Tangential Direction:	N40°58'59.66"W		
Tangential Length:	733.05		

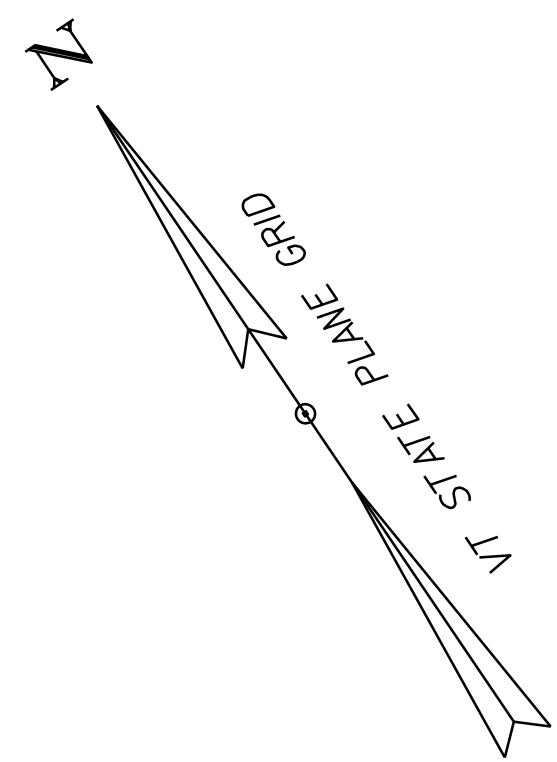
POWER DAM CANAL ALIGNMENT

Element: Linear	Station	Northing	Easting
POB	50+00.00	232009.0967	1654674.4632
POE	56+94.37	231480.7405	1655125.0058
Tangential Direction:	S40°27'18.23"E		
Tangential Length:	694.37		



PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)
PROJECT NUMBER:	BO 1442(41)
FILE NAME:	z16j18lbd_r_al1.dgn
PROJECT LEADER:	S.E. BURBANK
DESIGNED BY:	R.J. FORBES
ALIGNMENT LAYOUT SHEET (1 OF 3)	
PLOT DATE:	11/23/2021
DRAWN BY:	R.J. FORBES
CHECKED BY:	K.C. BARRY
SHEET	6 OF 43





SIDELINE ALIGNMENT

	Station	Northing	Easting
Element: Linear			
POB	0+00.00	231936.9909	1654926.3267
PC	0+18.70	231919.4691	1654919.8001
Tangential Direction:	S20°25'46.44"W		
Tangential Length:	18.7		
Element: Circular			
PC	0+18.70	231919.4691	1654919.8001
PI	0+57.99	231882.6440	1654906.0833
CC		231902.0163	1654966.6552
PT	0+85.31	231860.6130	1654938.6237
Radius:	50		
Delta:	76°19'48.66"	Left	
Degree of Curvature (Arc):	114°35'29.61"		
Length:	66.61		
Tangent:	39.3		
Chord:	61.79		
Middle Ordinate:	10.69		
External:	13.59		
Back Tangent Direction:	S20°25'46.44"W		
Back Radial Direction:	N69°34'13.56"W		
Chord Direction:	S17°44'07.89"E		
Ahead Radial Direction:	S34°05'57.78"W		
Ahead Tangent Direction:	S55°54'02.22"E		

CURVE (2)  
DELTA = 35°03'15"  
D = 21°13'14"  
R = 270.00'  
T = 85.27'  
L = 165.19'  
e = 13.15'

HPI 805+36.91  
HPI 808+22.85

CURVE (4)  
DELTA = 76°19'49"  
D = 114°35'30"  
R = 50.00'  
T = 39.30'  
L = 66.61'  
e = 13.59'

HPI 0+57.99  
HPI 1+86.02

CURVE (5)  
DELTA = 15°48'37"  
D = 33°35'38"  
R = 170.55'  
T = 23.68'  
L = 47.06'  
e = 1.64'

PC 1+62.34

PCC 2+09.40  
HPI 2+63.65

CURVE (6)  
DELTA = 16°41'31"  
D = 15°29'41"  
R = 369.78'  
T = 54.25'  
L = 107.73'  
e = 3.96'

CURVE (7)  
DELTA = 23°10'55"  
D = 64°22'38"  
R = 89.00'  
T = 18.25'  
L = 36.01'  
e = 1.85'



SIDELINE ALIGNMENT CONT.

PRC	3+17.13	231694.7454	1655093.7498
PI	3+35.38	231677.9922	1655100.9990
CC		231730.0893	1655175.4310
PT	3+53.14	231665.4453	1655114.2579
Radius:	89		
Delta:	23°10'54.69"	Left	
Degree of Curvature (Arc):	64°22'38.21"		
Length:	36.01		
Tangent:	18.25		
Chord:	35.76		
Middle Ordinate:	1.81		
External:	1.85		
Back Tangent Direction:	S23°23'54.23"E		
Back Radial Direction:	S66°36'05.77"W		
Chord Direction:	S34°59'21.58"E		
Ahead Radial Direction:	S43°25'11.07"W		
Ahead Tangent Direction:	S46°34'48.93"E		
Element: Linear			
PT	3+53.14	231665.4453	1655114.2579
POE	4+00.00	231633.2358	1655148.2950
Tangential Direction:	S46°34'48.93"E		
Tangential Length:	46.86		

CURVE (3)  
DELTA = 81°23'45"  
D = 95°29'35"  
R = 60.00'  
T = 51.60'  
L = 85.24'  
e = 19.14'

END PROJECT  
STA. 3+53.14

END BRIDGE  
STA. 401+50.41

PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)

PROJECT NUMBER: BO 1442(41)

FILE NAME: z16j181bdr_al1.dgn  
PROJECT LEADER: S.E. BURBANK  
DESIGNED BY: R.J. FORBES  
ALIGNMENT LAYOUT SHEET (2 OF 3)

PLOT DATE: 11/23/2021  
DRAWN BY: R.J. FORBES  
CHECKED BY: K.C. BARRY  
SHEET 7 OF 43



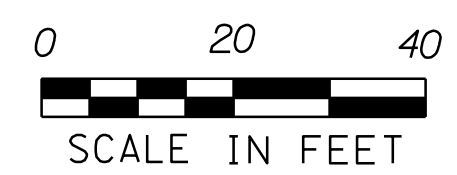
SIDELINE ALIGNMENT CONT.

Element: Linear			
PT	0+85.31	231860.6130	1654938.6237
PC	1+62.34	231817.4271	1655002.4105
Tangential Direction:	S55°54'02.22"E		
Tangential Length:	77.03		
Element: Circular			
PC	1+62.34	231817.4271	1655002.4105
PI	1+86.02	231804.1503	1655022.0207
CC		231676.1964	1654906.7924
PCC	2+09.40	231786.0330	1655037.2718
Radius:	170.55		
Delta:	15°48'36.73"	Right	
Degree of Curvature (Arc):	33°35'37.57"		
Length:	47.06		
Tangent:	23.68		
Chord:	46.91		
Middle Ordinate:	1.62		
External:	1.64		
Back Tangent Direction:	S55°54'02.22"E		
Back Radial Direction:	S34°05'57.78"W		
Chord Direction:	S47°59'43.86"E		
Ahead Radial Direction:	S49°54'34.51"W		
Ahead Tangent Direction:	S40°05'25.49"E		
Element: Circular			

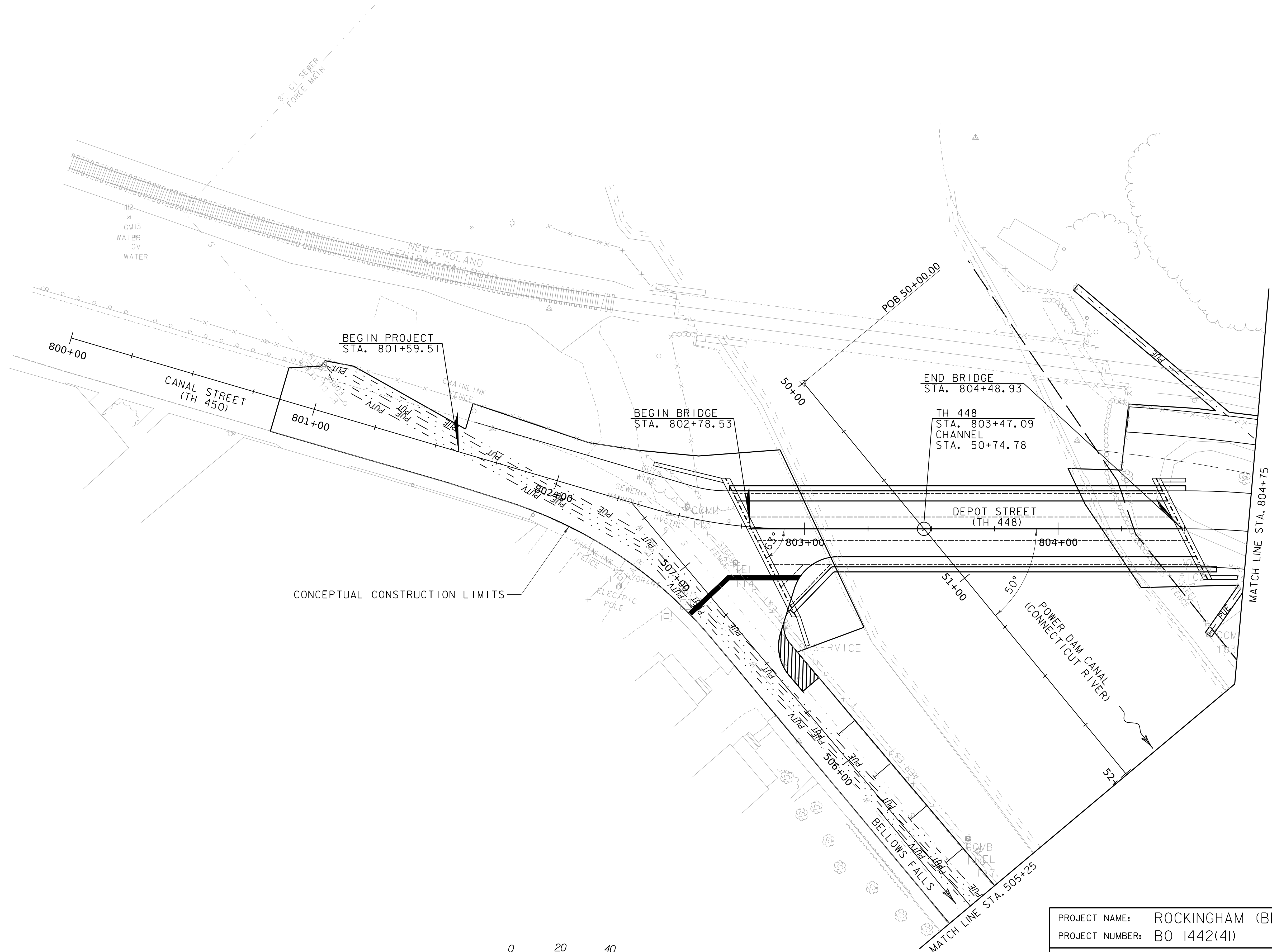
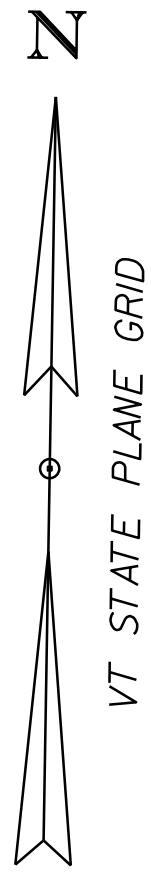
SIDELINE ALIGNMENT CONT.

PCC	2+09.40	231786.0332	1655037.2716
PI	2+63.65	231744.5321	1655072.2068
CC		231547.8993	1654754.3825
PRC	3+17.13	231694.7454	1655093.7498
Radius:	369.78		
Delta:	16°41'31.26"	Right	
Degree of Curvature (Arc):	15°29'41.08"		
Length:	107.73		
Tangent:	54.25		
Chord:	107.35		
Middle Ordinate:	3.92		
External:	3.96		
Back Tangent Direction:	S40°05'25.49"E		
Back Radial Direction:	S49°54'34.51"W		
Chord Direction:	S31°44'39.86"E		
Ahead Radial Direction:	S66°36'05.77"W		
Ahead Tangent Direction:	S23°23'54.23"E		
Element: Circular			

	Station	Northing	Easting
Element: Linear			
POB	400+00.00	231534.4258	1654977.6500
POE	401+89.65	231672.9136	1655107.2259
Tangential Direction:	N43°05'45.22"E		
Tangential Length:	189.65		



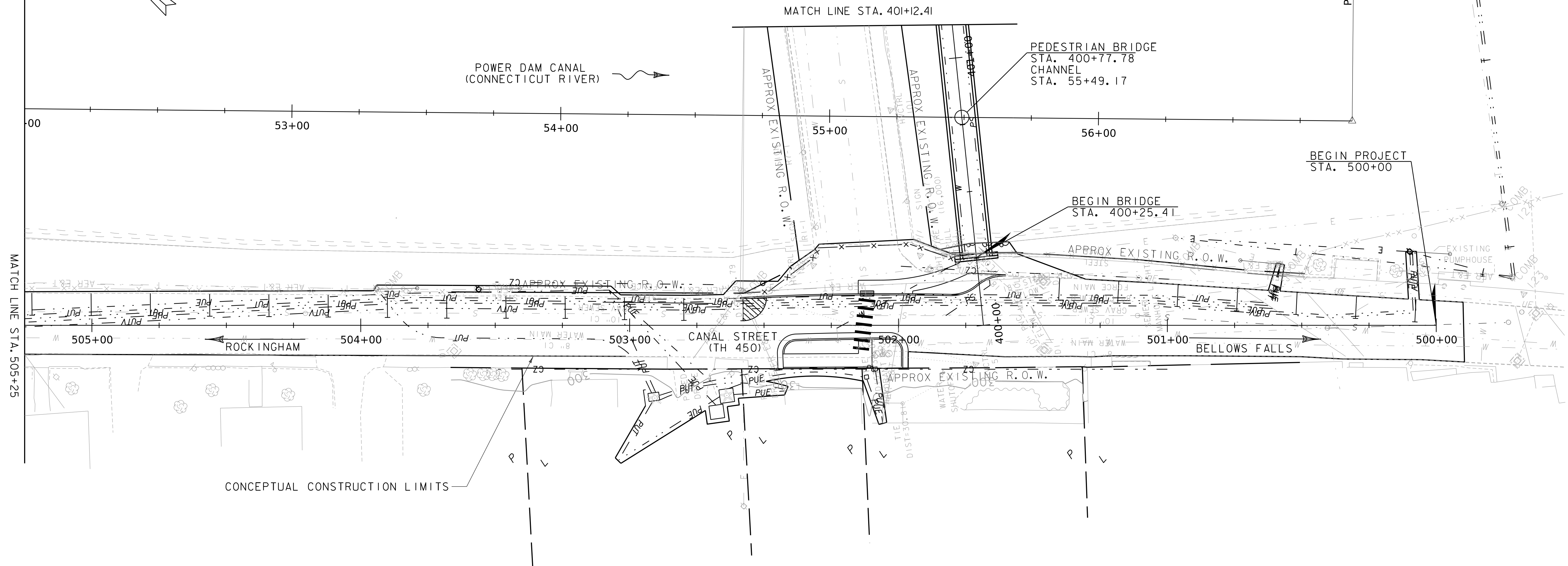
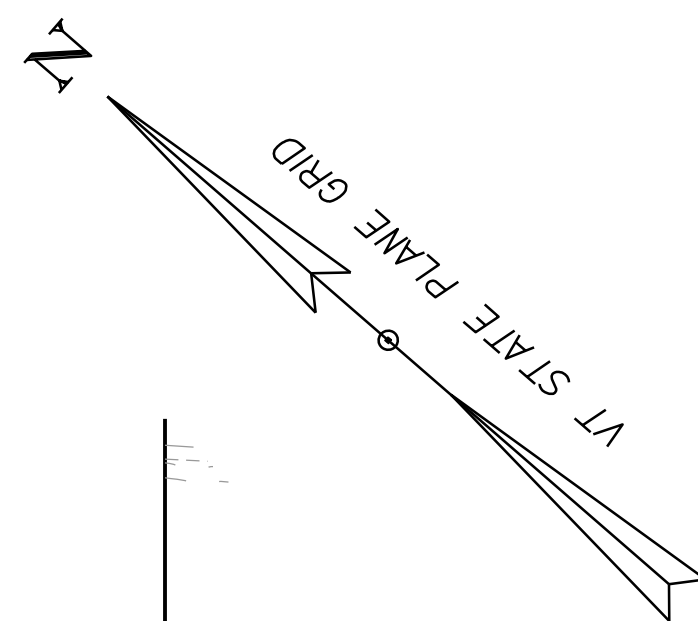
PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(41)	
FILE NAME: z16j181bdr_dtl.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
ALIGNMENT LAYOUT SHEET (3 OF 3)	SHEET 8 OF 43



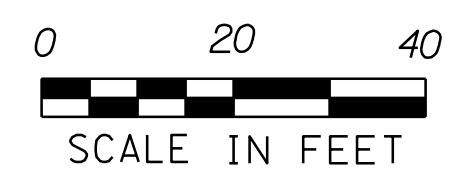
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PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181bdr_nul.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
LAYOUT SHEET (1 OF 3)	SHEET 9 OF 43



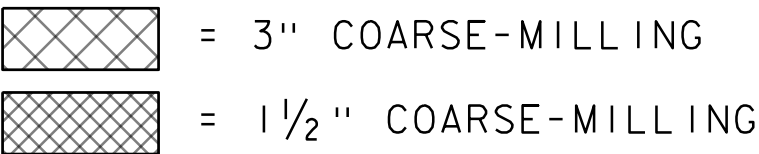
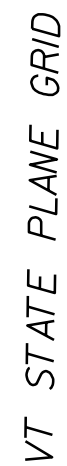




EXISTING BRIDGE INFORMATION  
112'-0" CONCRETE ARCH  
BUILT 1909

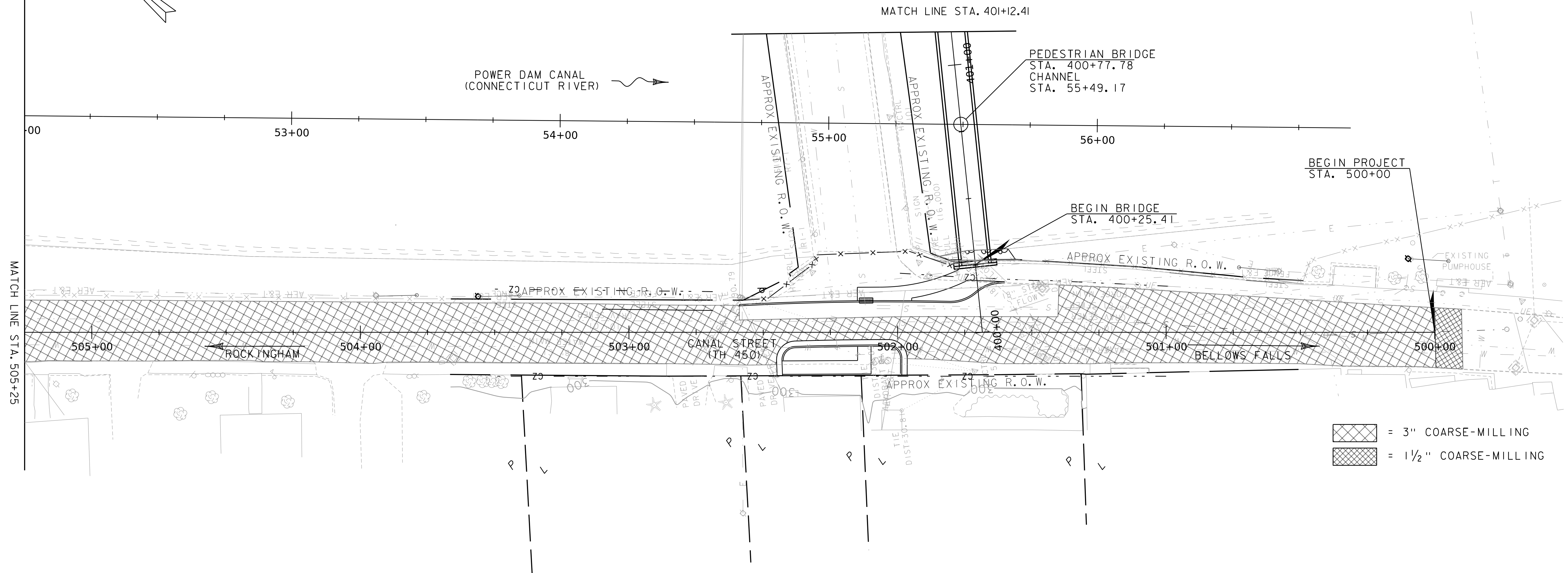
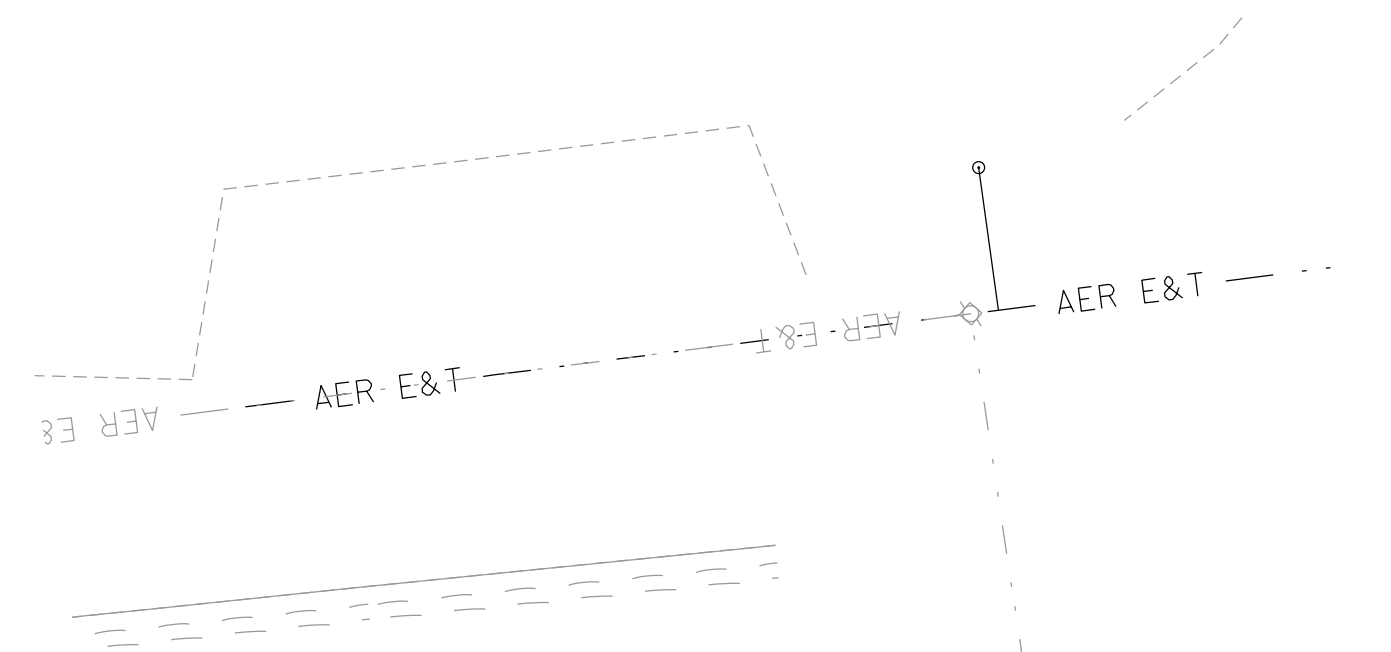
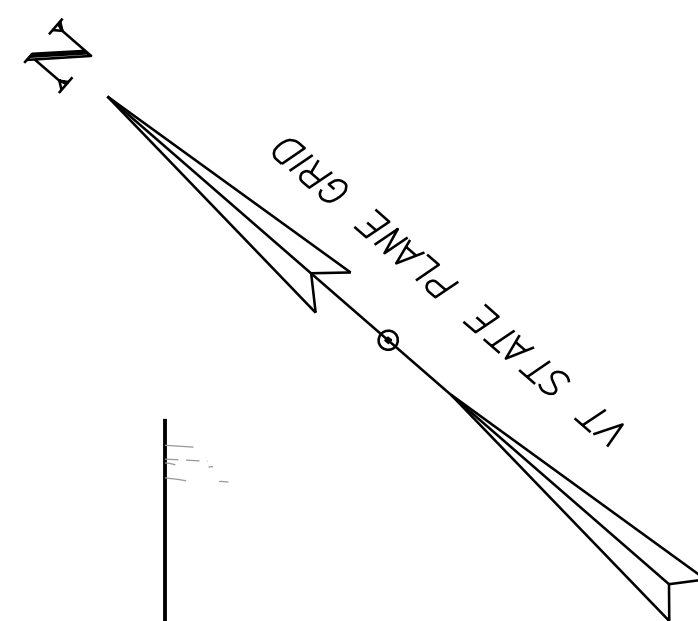


PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181bdr_nul.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
LAYOUT SHEET (3 OF 3)	SHEET 11 OF 43



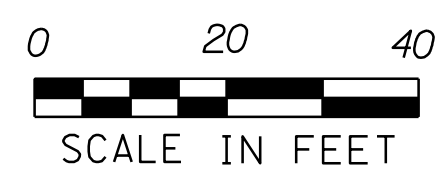
PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)		
PROJECT NUMBER:	BO 1442(41)		
FILE NAME:	z16j81bdr_coarsemilling.dgn		PLOT DATE:
PROJECT LEADER:	S.E. BURBANK	DRAWN BY:	R.J. FORBES
DESIGNED BY:	R.J. FORBES	CHECKED BY:	K.C. BARRY
COARSE-MILLING LAYOUT SHEET	11 OF 31	SHEET	12 OF 43



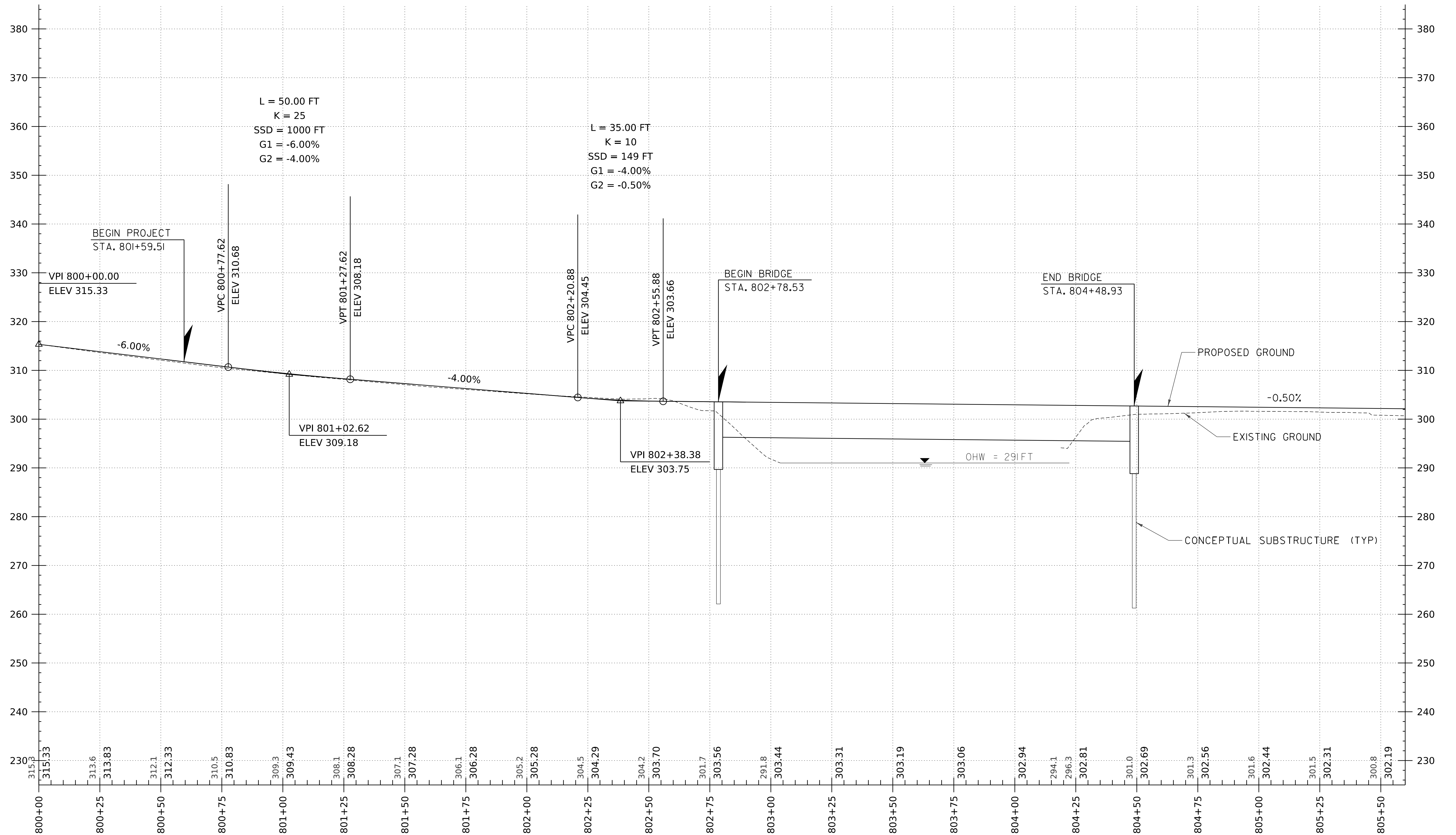


-  = 3" COARSE-MILLING
-  = 1 1/2" COARSE-MILLING

EXISTING BRIDGE INFORMATION  
112'-0" CONCRETE ARCH  
BUILT 1909



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181bdr_coarsemilling.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
COARSE-MILLING LAYOUT SHEET (3 OF 3)	SHEET 14 OF 43



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

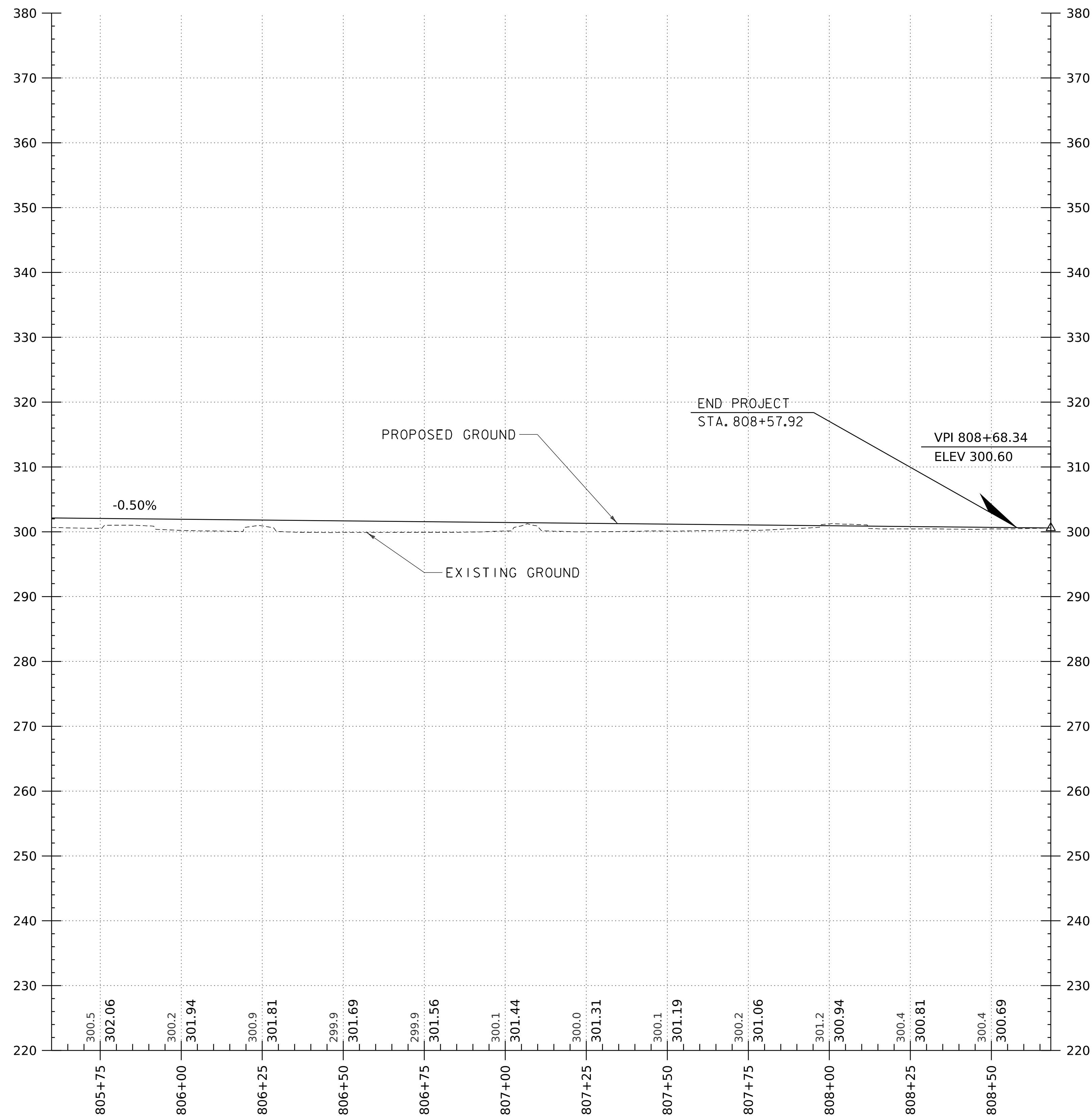
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

DEPOT STREET (TH 448) PROFILE

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



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j18lpro.ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: D.M. PECK
DEPOT STREET PROFILE SHEET 11 OF 21	SHEET 15 OF 43



DEPOT STREET (TH 448) PROFILE

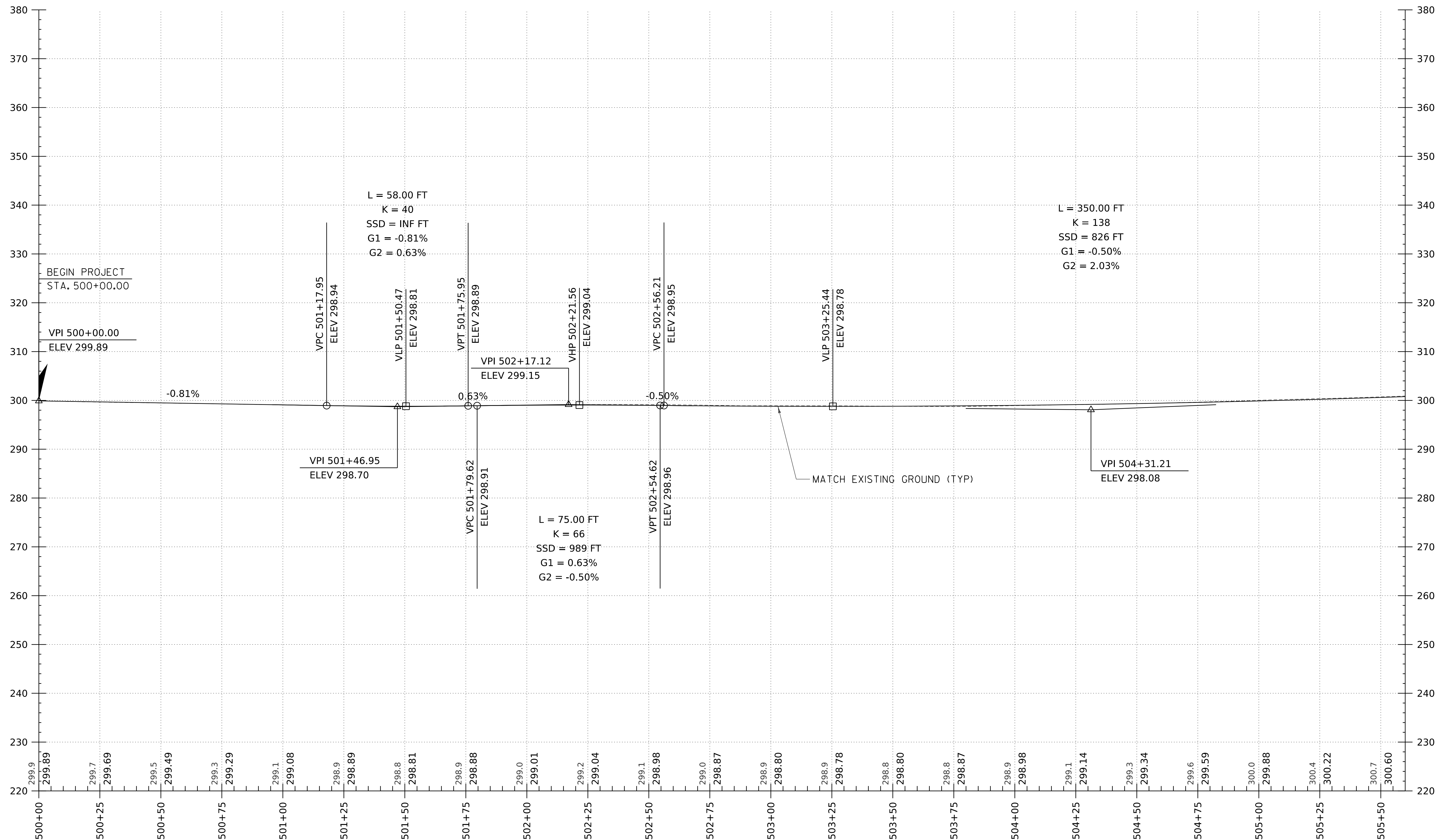
SCALE:  
HORIZONTAL 1" = 20'-0"  
VERTICAL 1" = 10'-0"

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.



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j18lpro_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: D.M. PECK
DEPOT STREET PROFILE SHEET (2 OF 2)	SHEET 16 OF 43



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

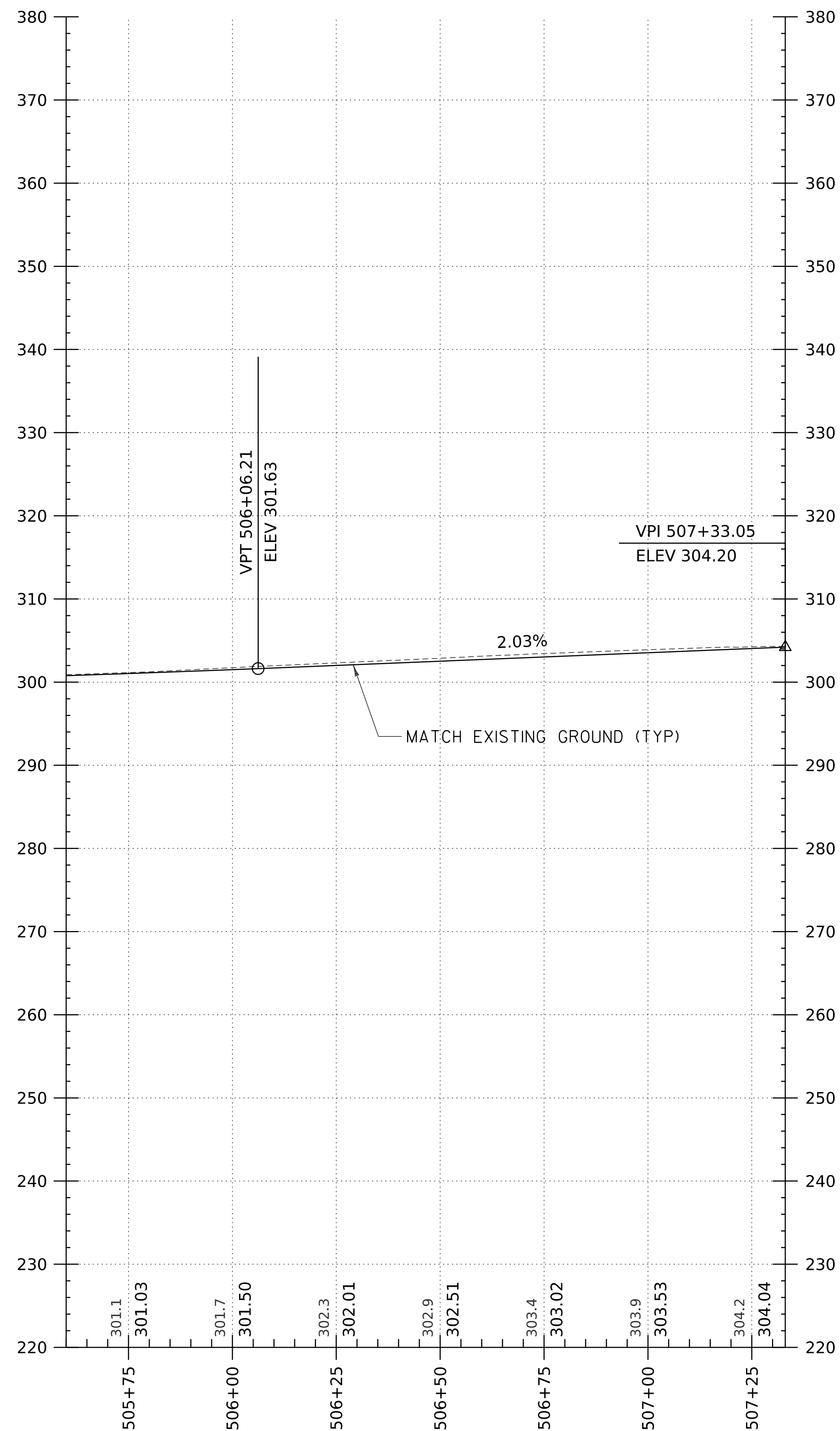
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

### CANAL STREET (TH 450) PROFILE

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



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j18lpro_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: D.M. PECK
CANAL STREET PROFILE SHEET 11 OF 21	SHEET 17 OF 43



### CANAL STREET (TH 450) PROFILE

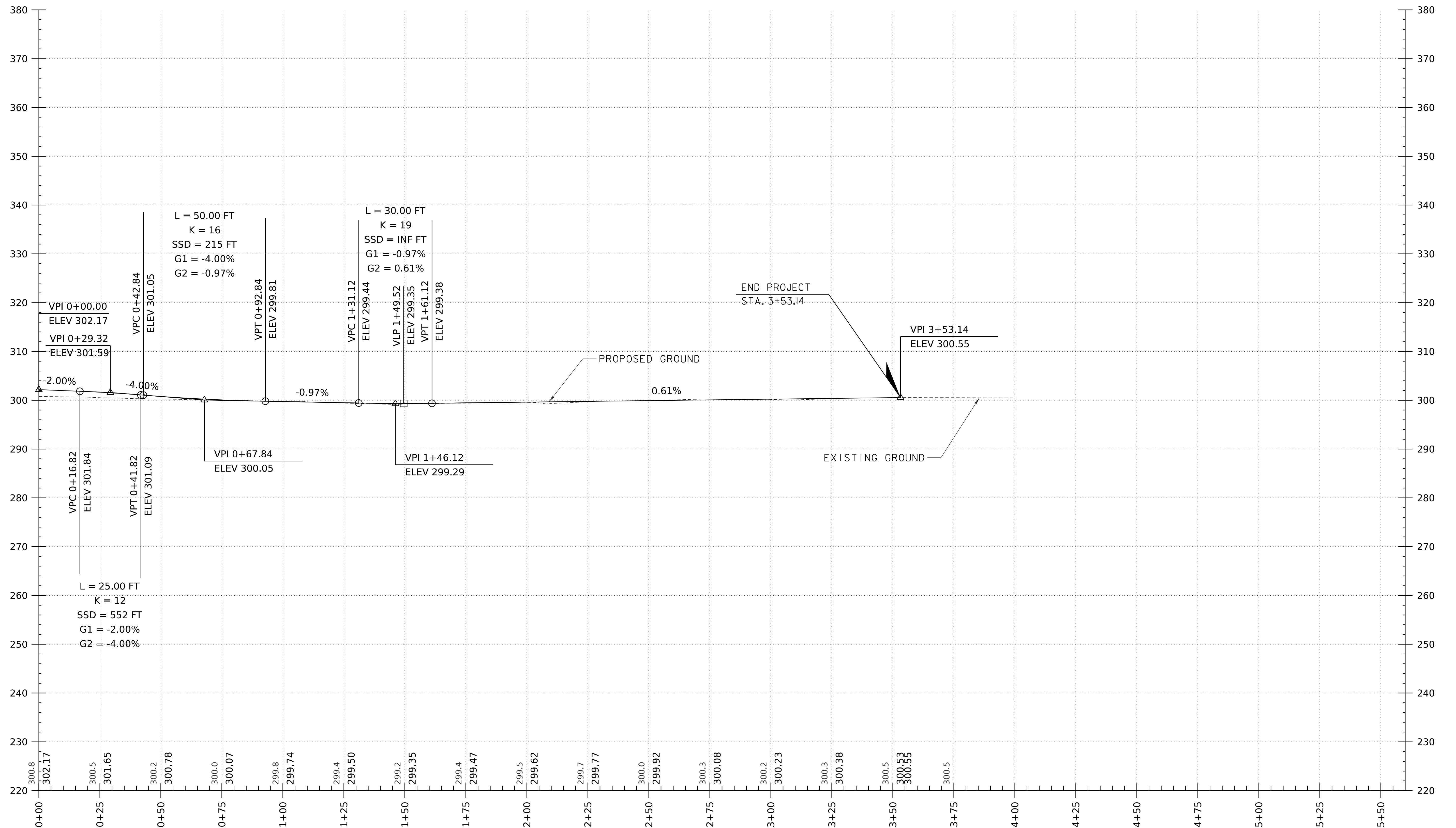
SCALE:  
HORIZONTAL 1" = 20'-0"  
VERTICAL 1" = 10'-0"

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.



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j18lpro_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: D.M. PECK
CANAL STREET PROFILE SHEET (2 OF 2)	SHEET 18 OF 43



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.

SIDELINE PROFILE

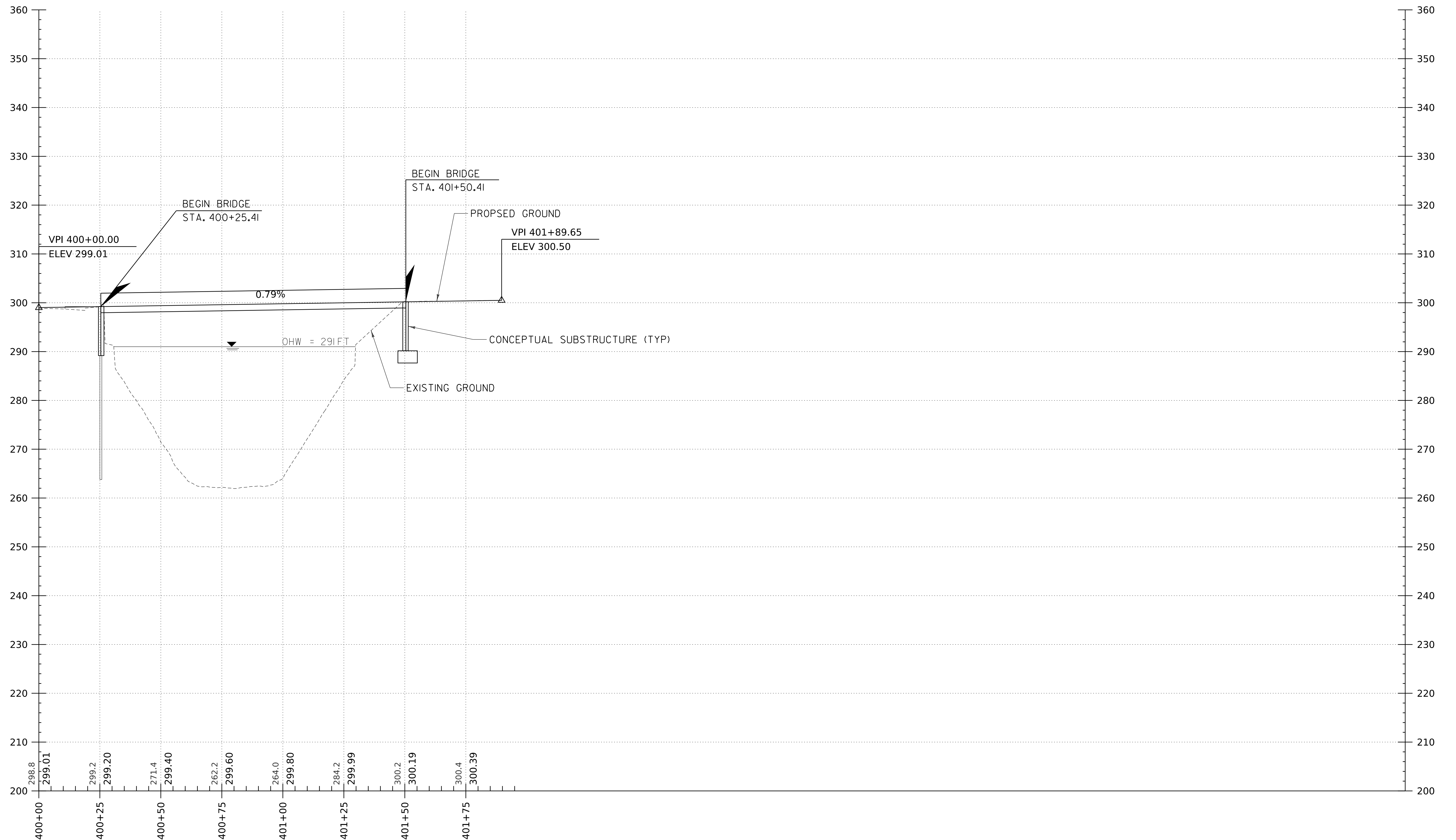
SCALE:

HORIZONTAL 1" = 20'-0"

VERTICAL 1" = 10'-0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	FILE NAME: z16j18lpro.ord.dgn	PLOT DATE: 11/23/2021
PROJECT NUMBER: BO 1442(4I)	PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
	DESIGNED BY: R.J. FORBES	CHECKED BY: D.M. PECK
	SIDELINE PROFILE SHEET	SHEET 19 OF 43



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

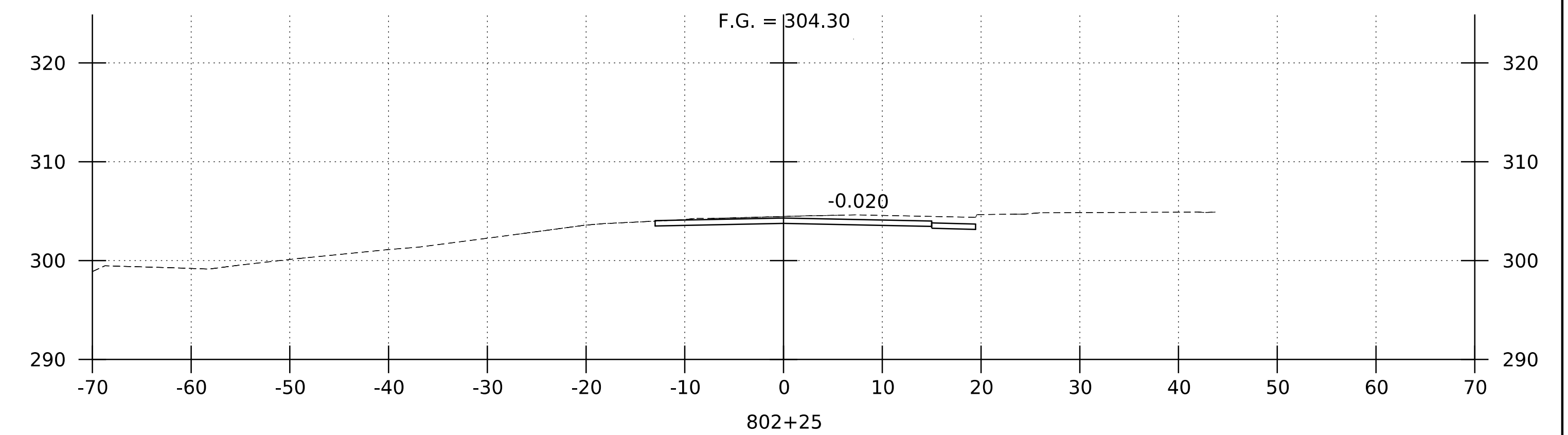
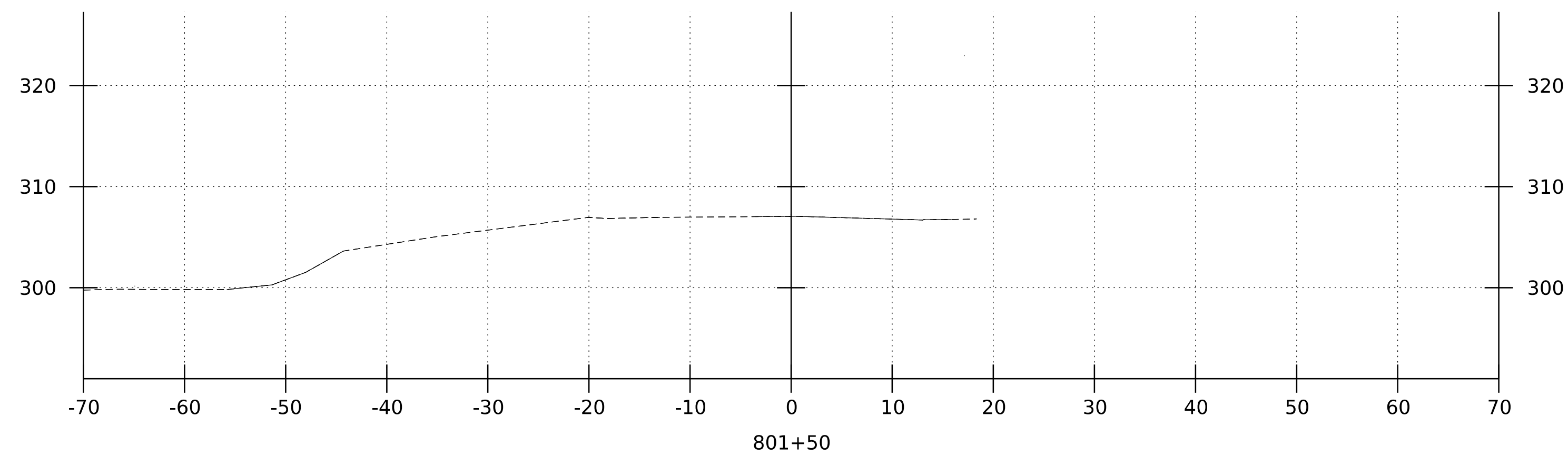
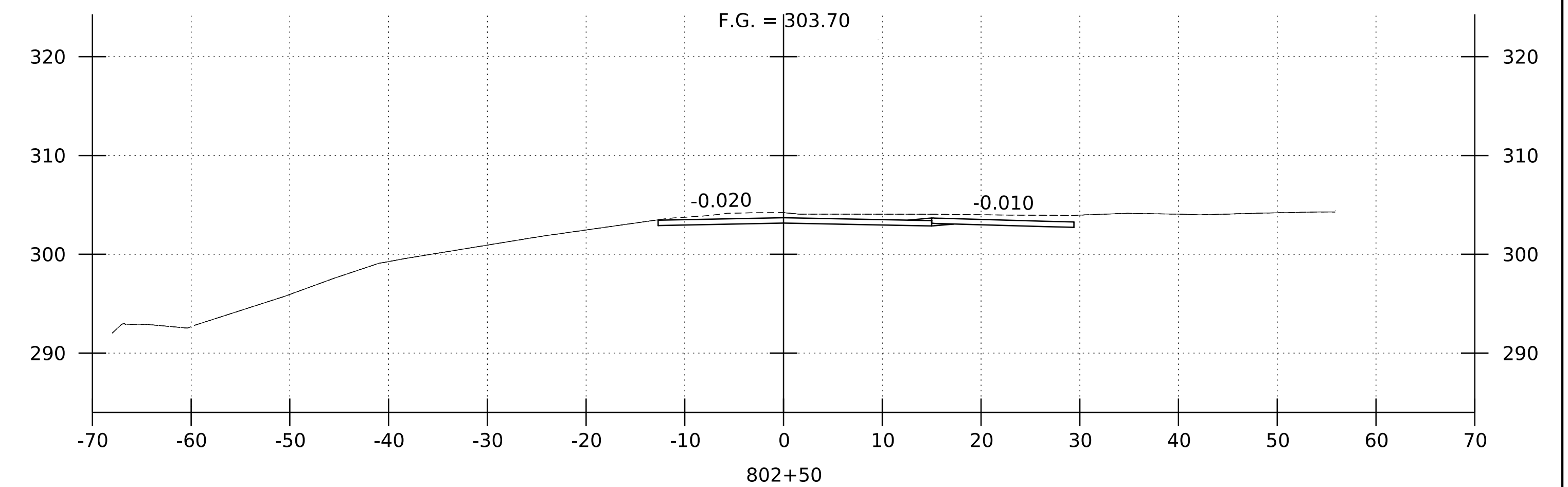
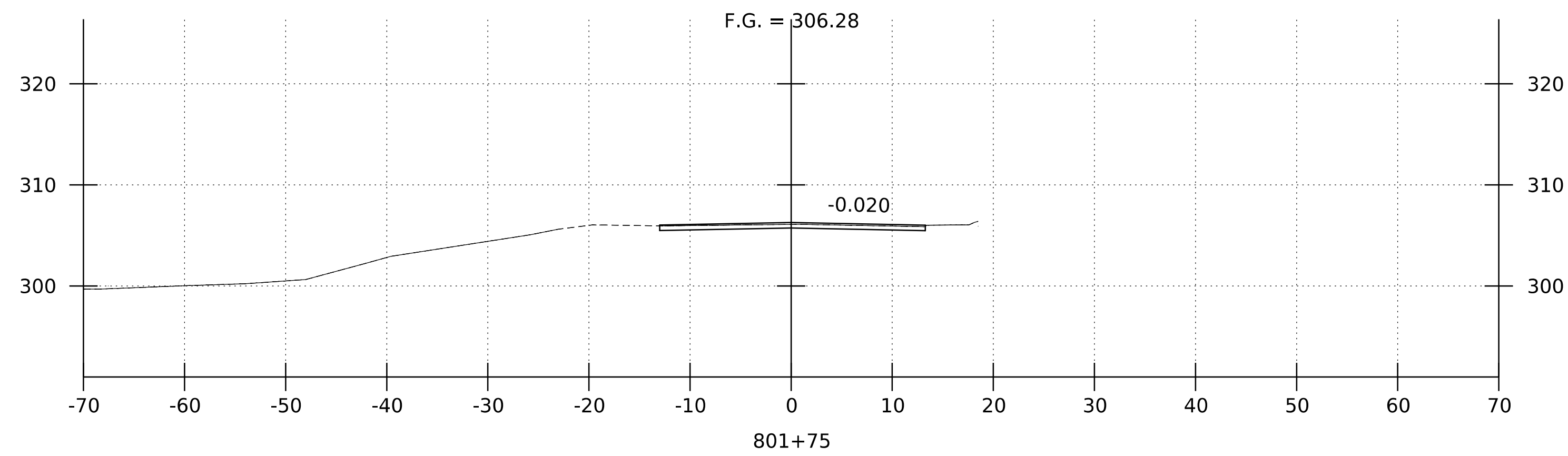
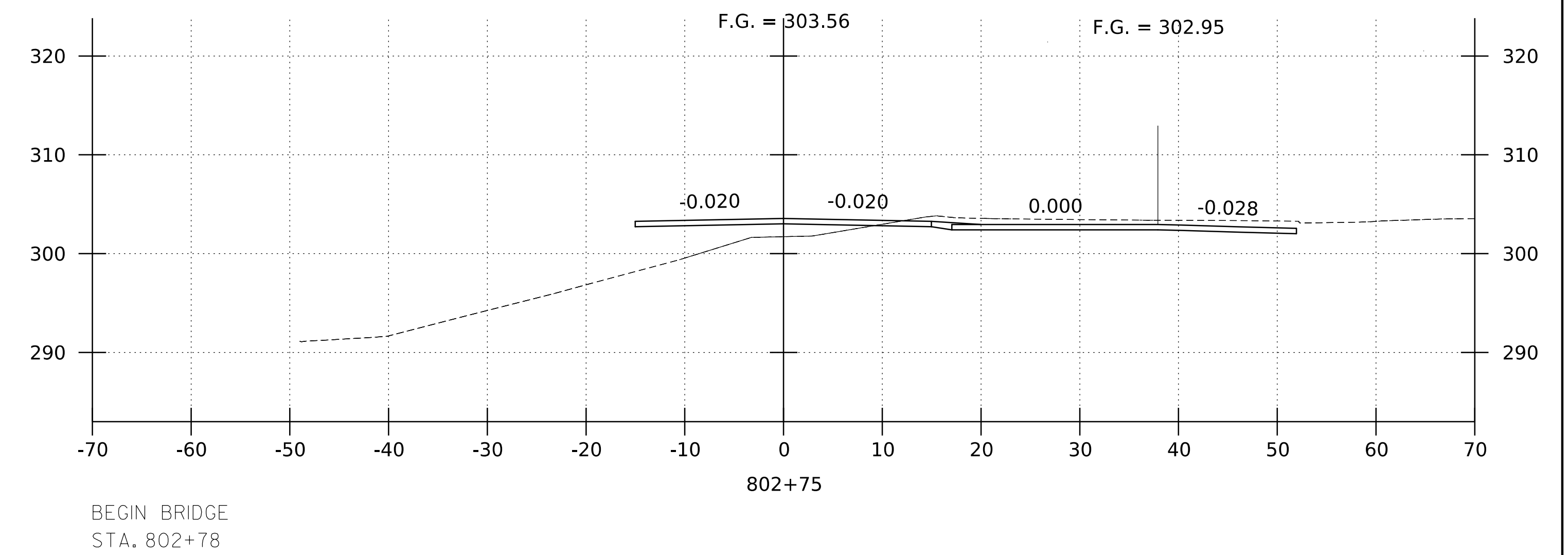
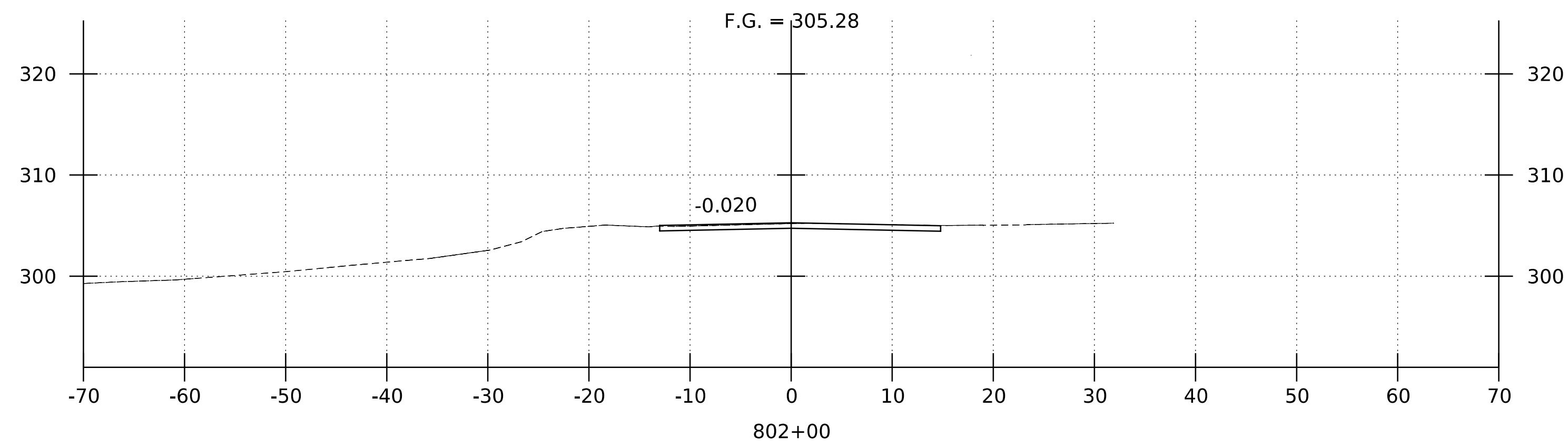
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

### PEDESTRIAN BRIDGE PROFILE

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



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(41)	
FILE NAME: z16j18lpro_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: D.M. PECK
PEDESTRIAN BRIDGE PROFILE SHEET	SHEET 20 OF 43



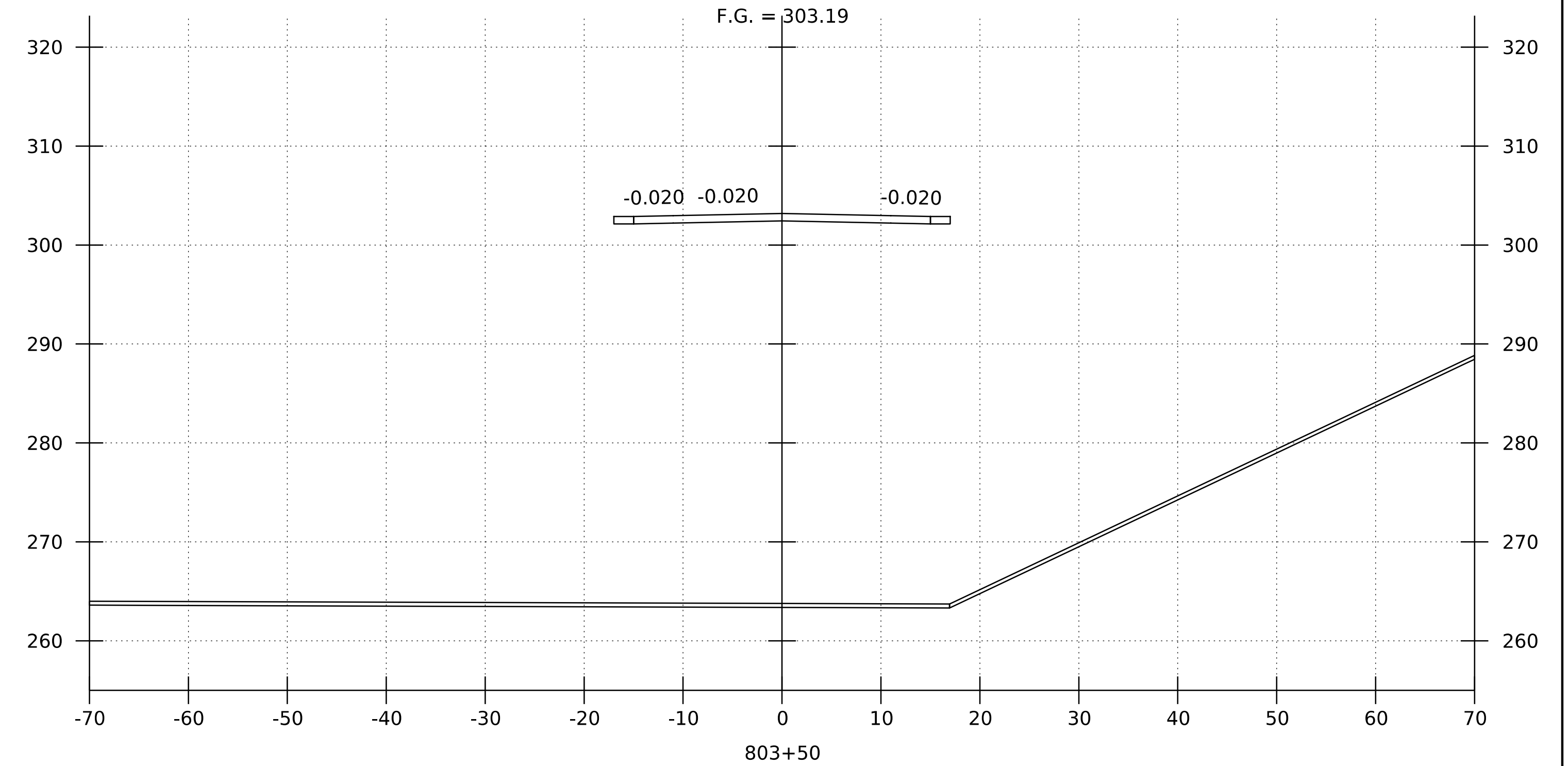
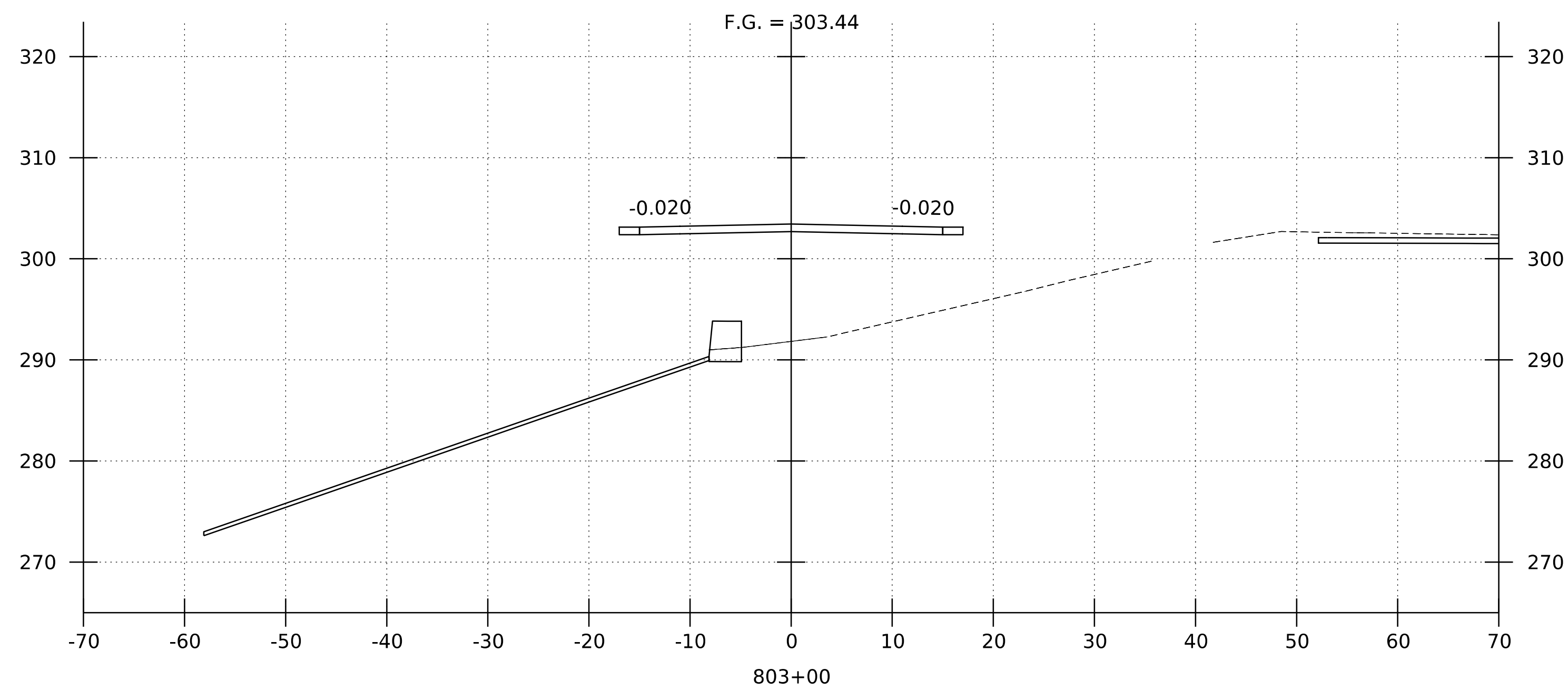
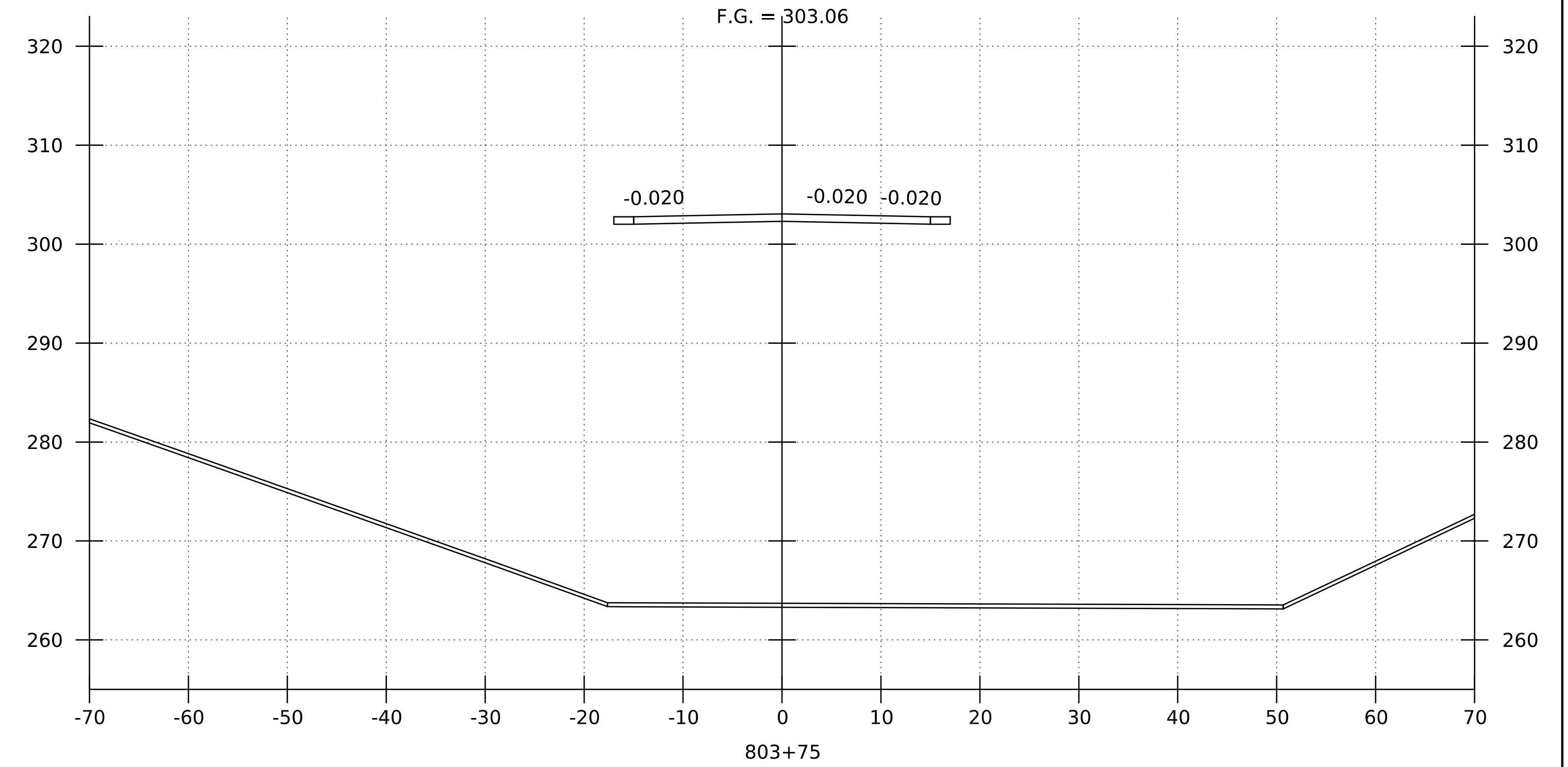
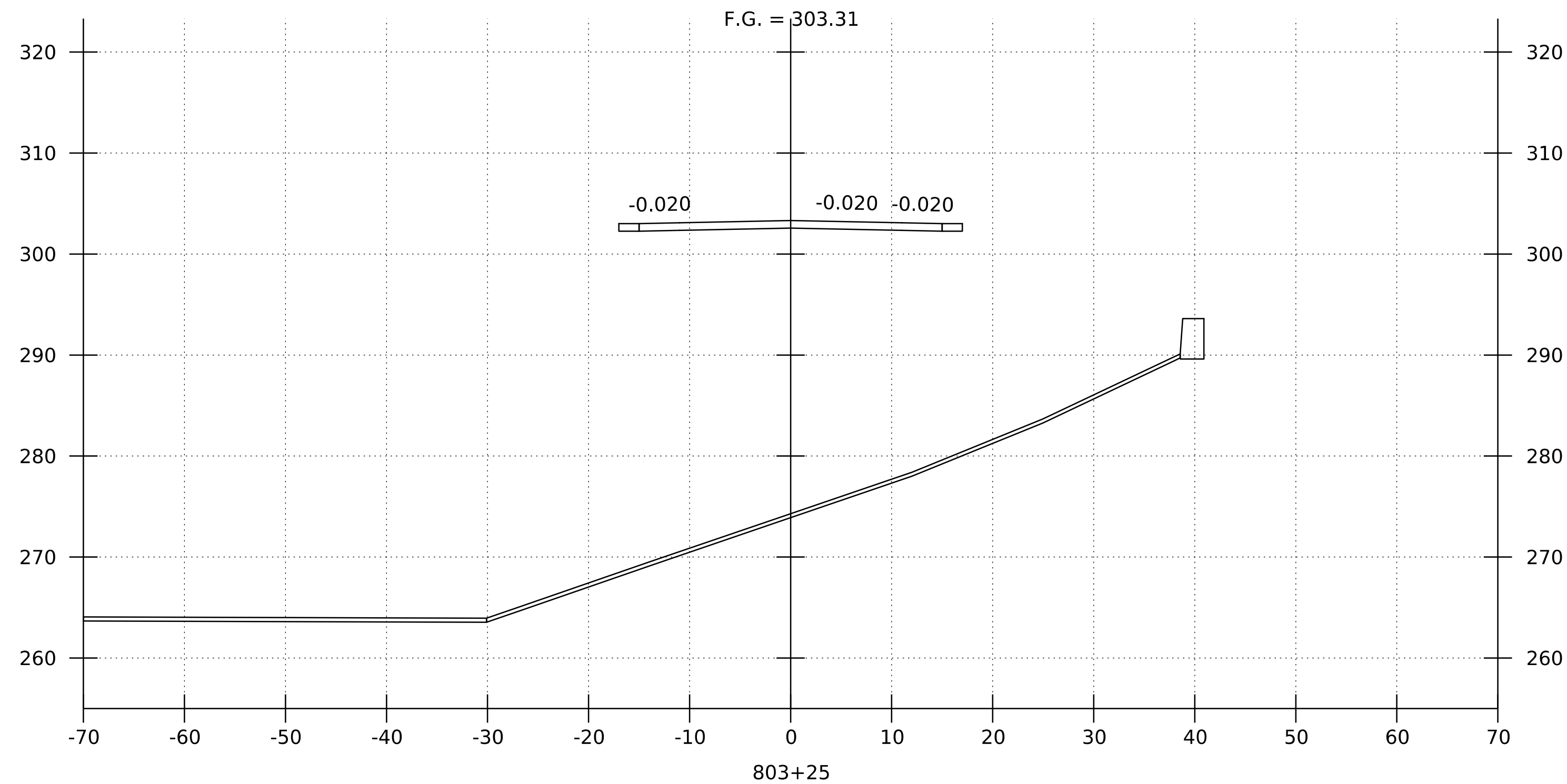
### DEPOT STREET CROSS SECTIONS

STA. 801+50 - 802+75

SCALE: 1" = 10'-0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
DEPOT STREET CROSS SECTIONS (1 OF 6)	SHEET 21 OF 43



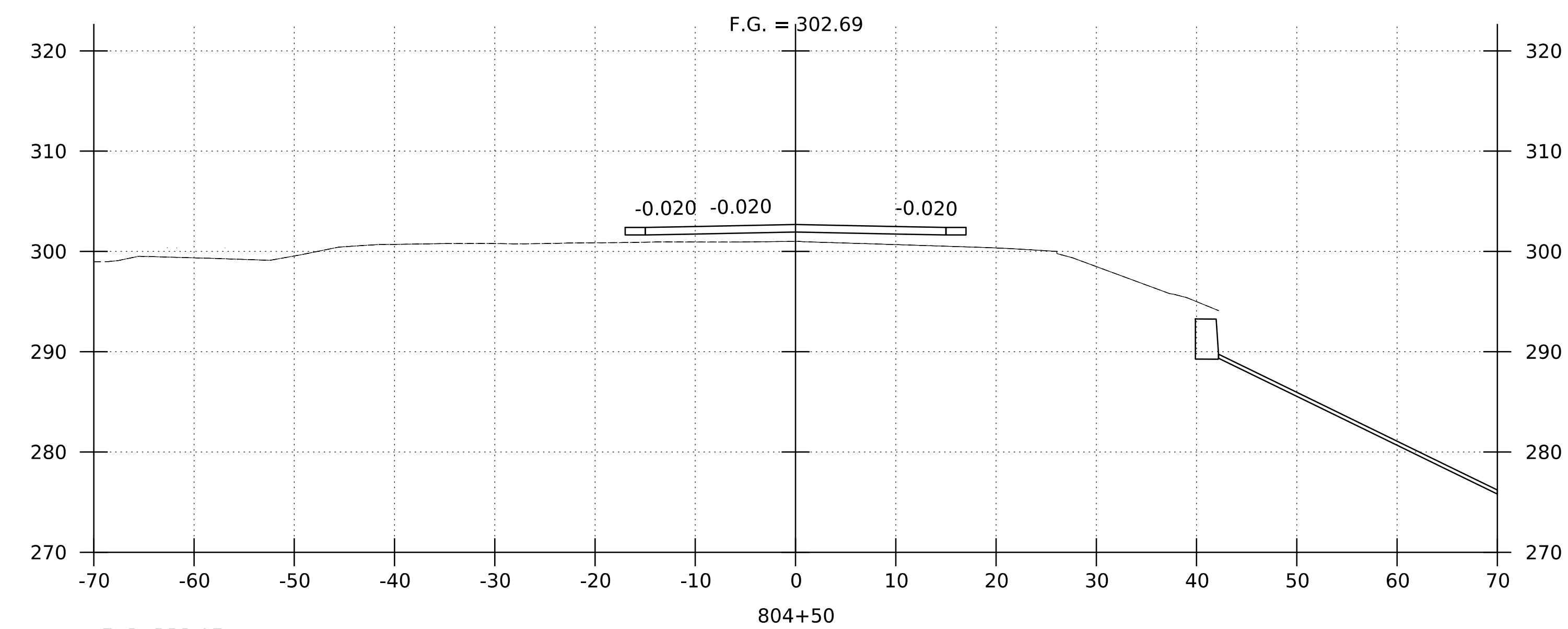
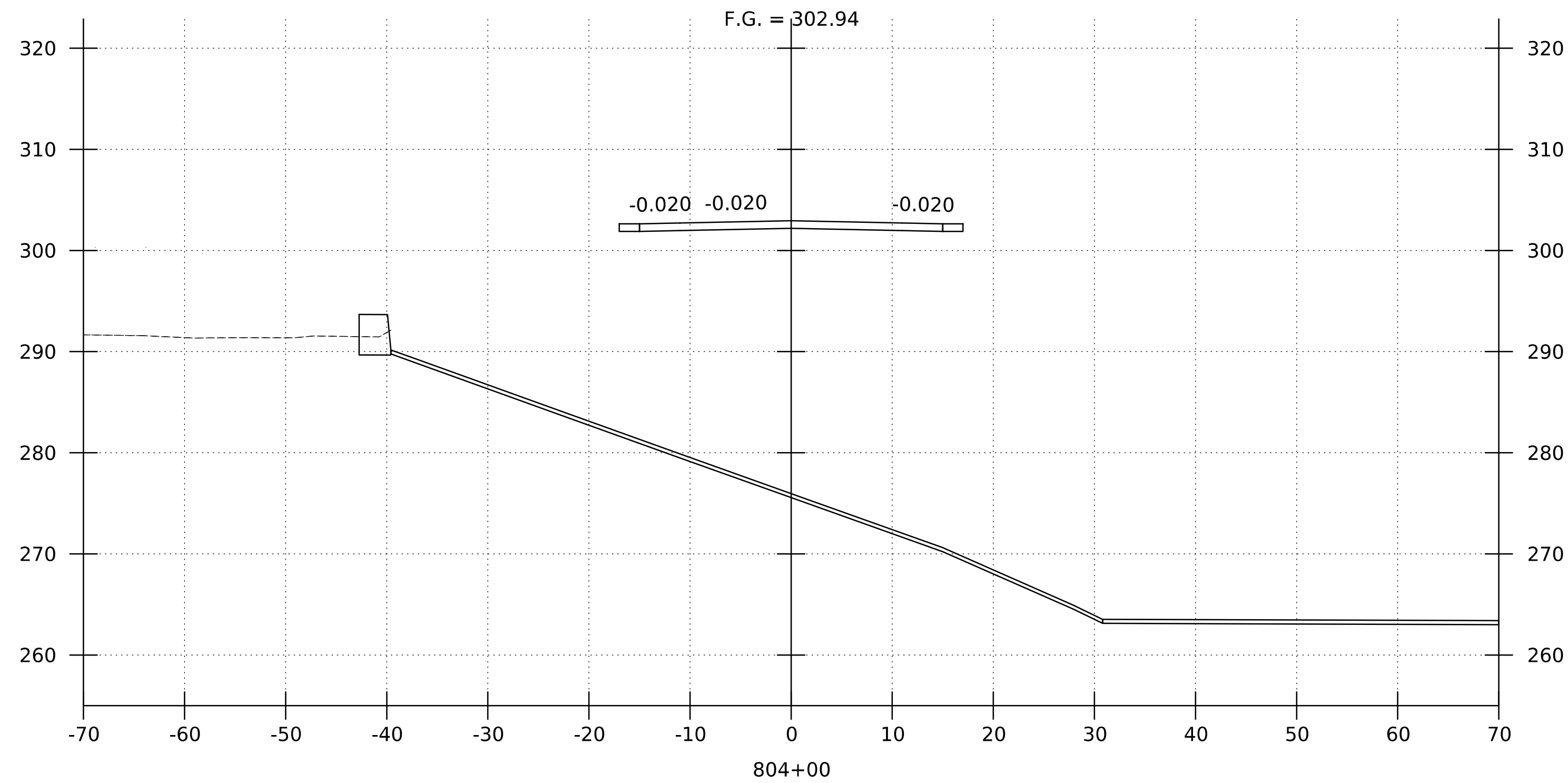
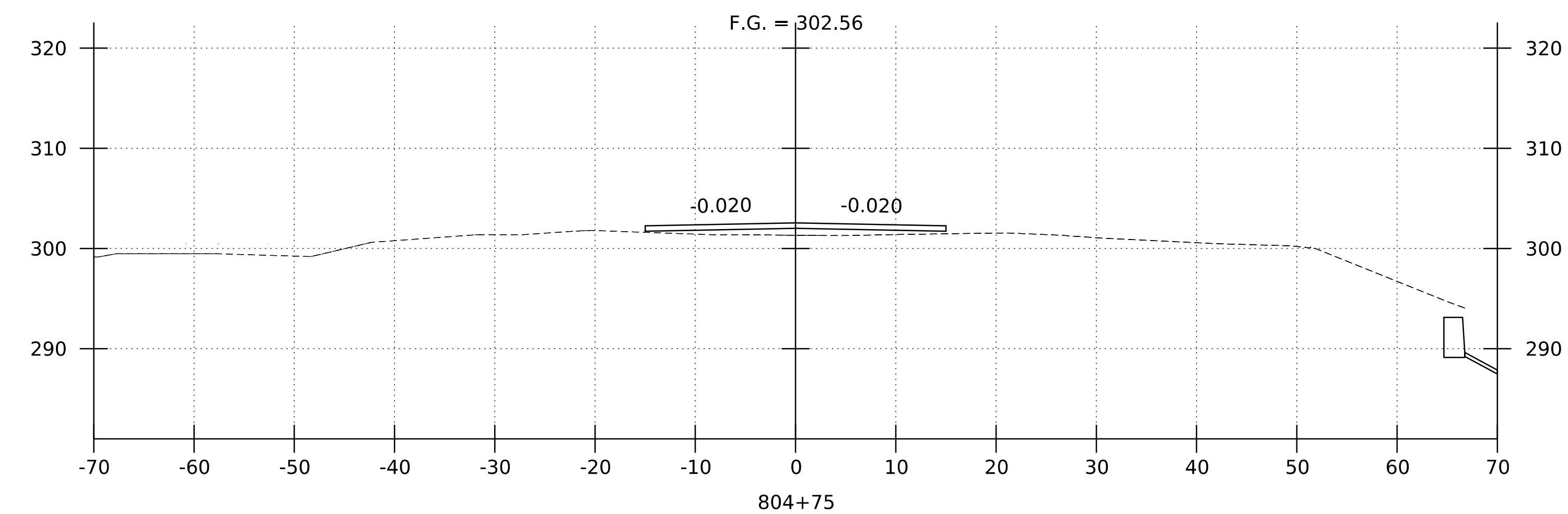
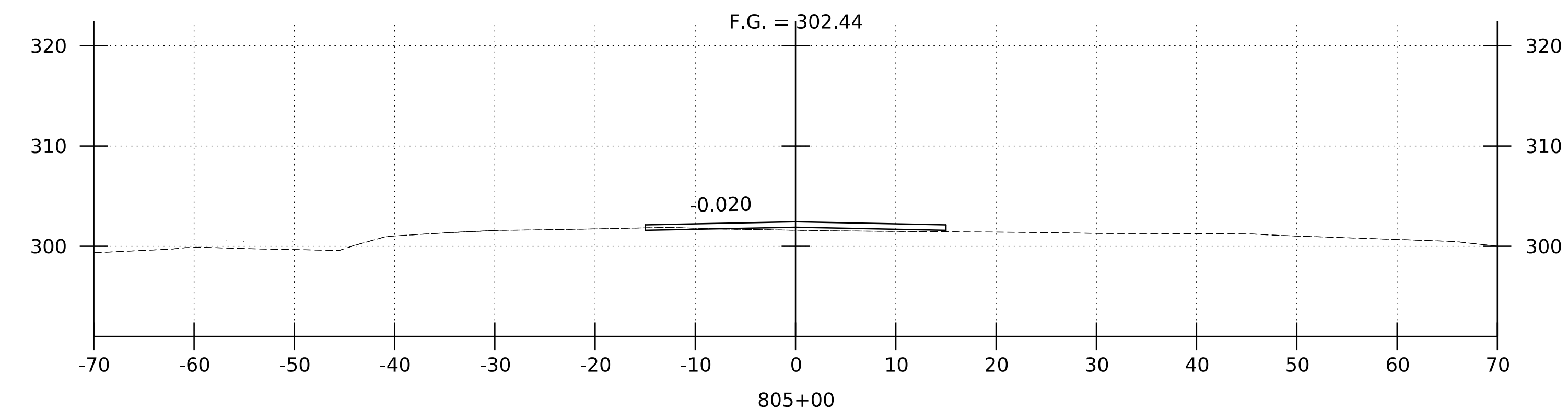
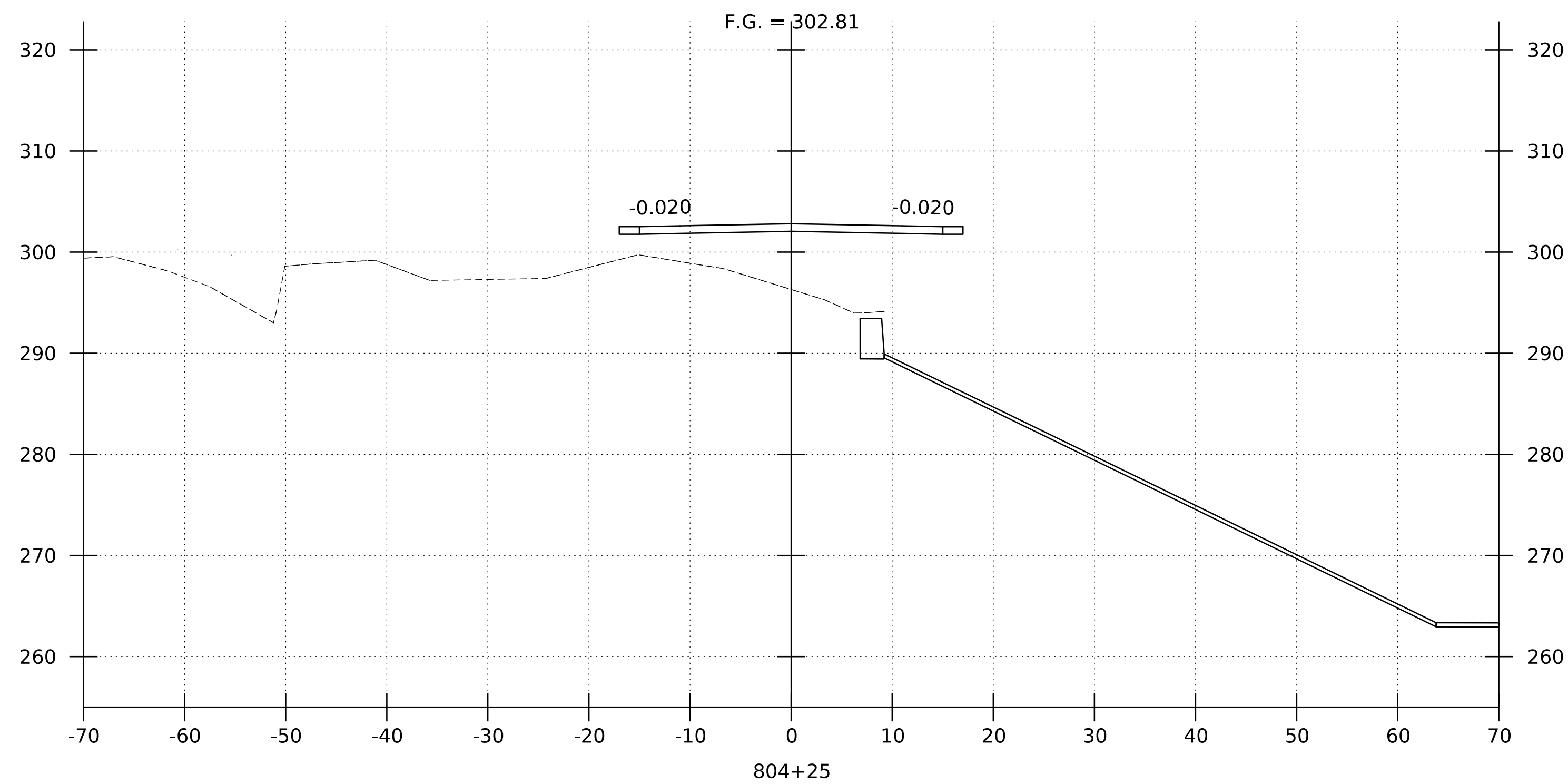
# DEPOT STREET CROSS SECTIONS

STA. 803+00 - 803+75

SCALE: 1" = 10'-0"



PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)
PROJECT NUMBER:	BO 1442(4I)
FILE NAME:	z16j181xs_ord.dgn
PROJECT LEADER:	S.E. BURBANK
DESIGNED BY:	R.J. FORBES
DEPOT STREET CROSS SECTIONS (2 OF 6)	
PLOT DATE:	11/23/2021
DRAWN BY:	R.J. FORBES
CHECKED BY:	K.C. BARRY
SHEET	22 OF 43

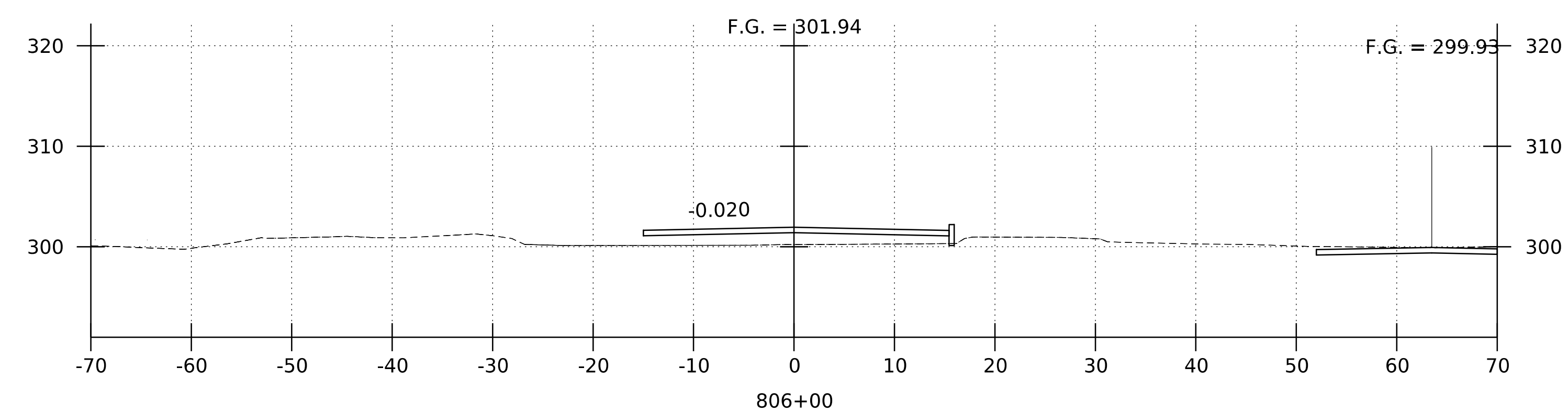
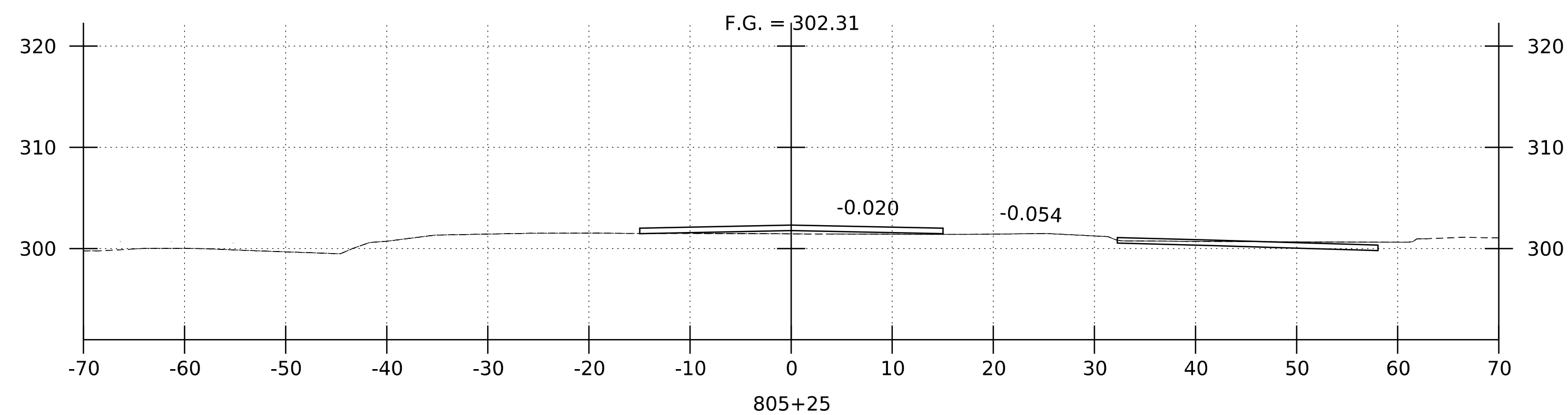
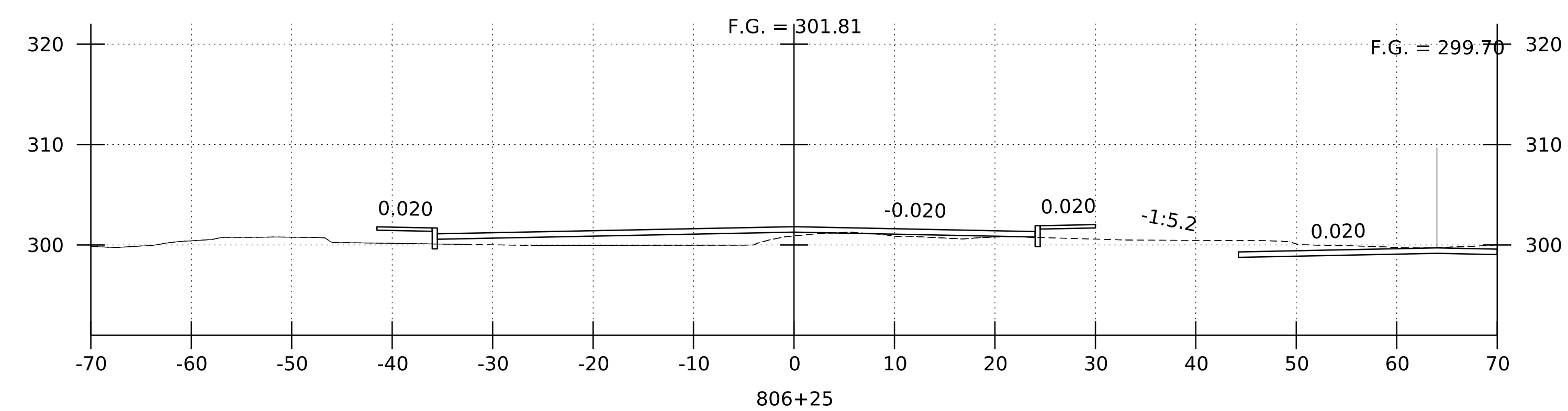
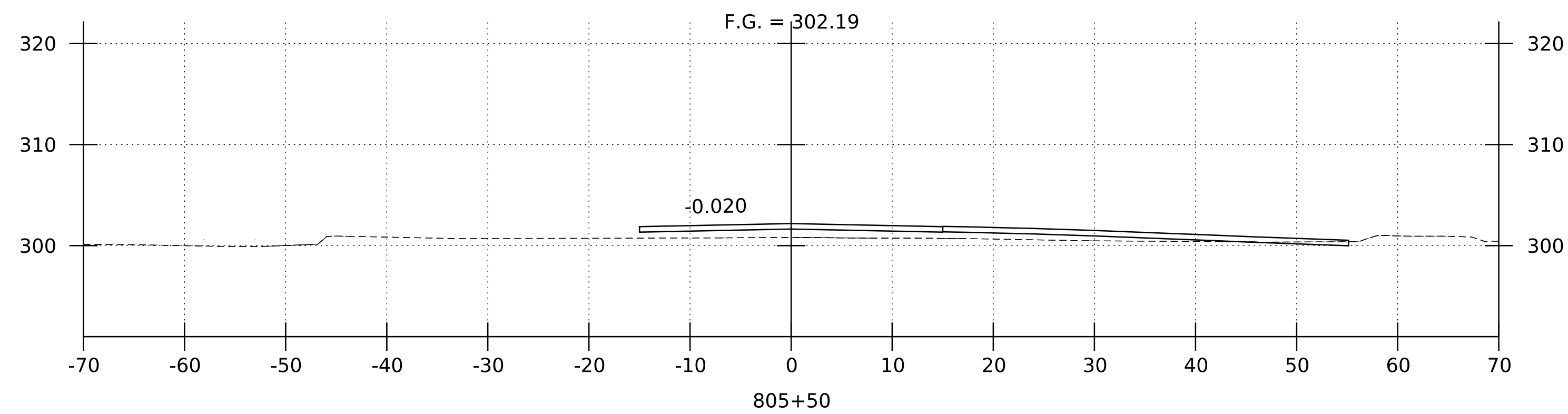
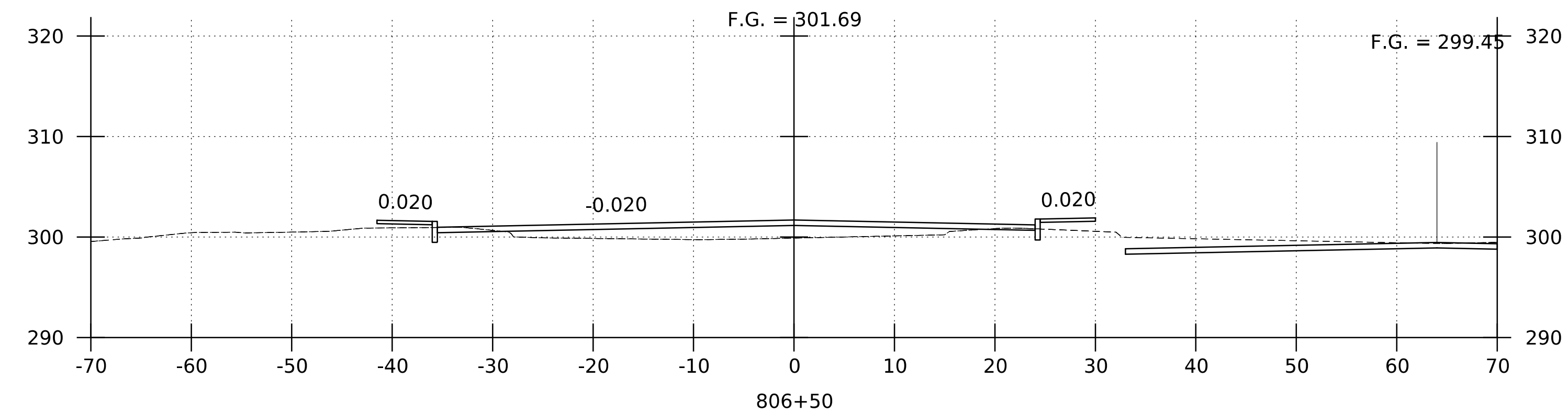
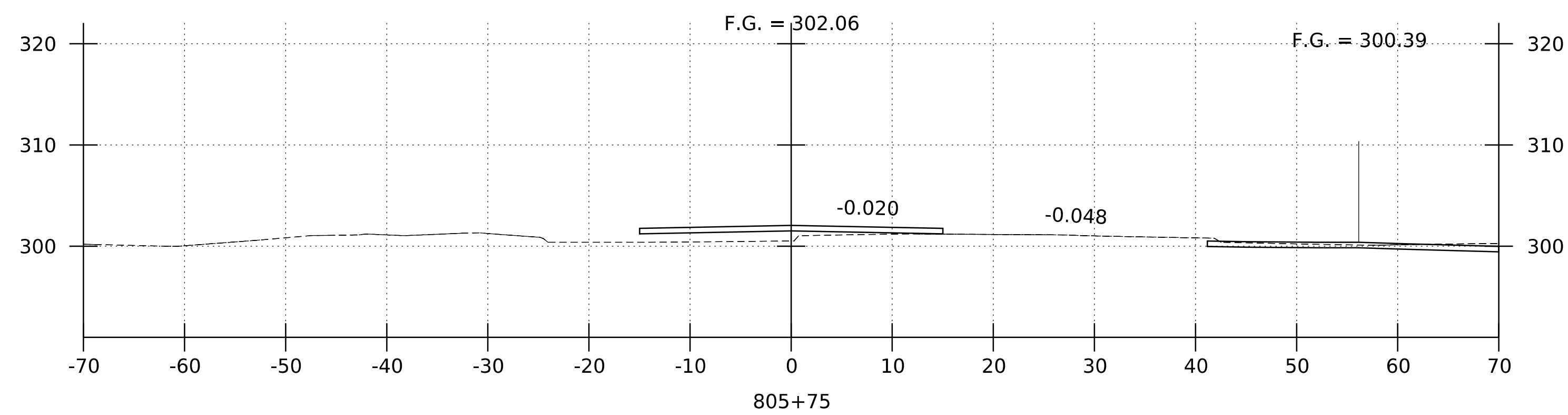


END BRIDGE  
STA. 804+48

DEPOT STREET CROSS SECTIONS  
STA. 804+00 - 805+00  
SCALE: 1" = 10'-0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
DEPOT STREET CROSS SECTIONS (3 OF 6)	SHEET 23 OF 43



### DEPOT STREET CROSS SECTIONS

STA. 805+25 - 806+50

SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)

PROJECT NUMBER: BO 1442(4I)

FILE NAME: z16j181xs_ord.dgn

PROJECT LEADER: S.E. BURBANK

DESIGNED BY: R.J. FORBES

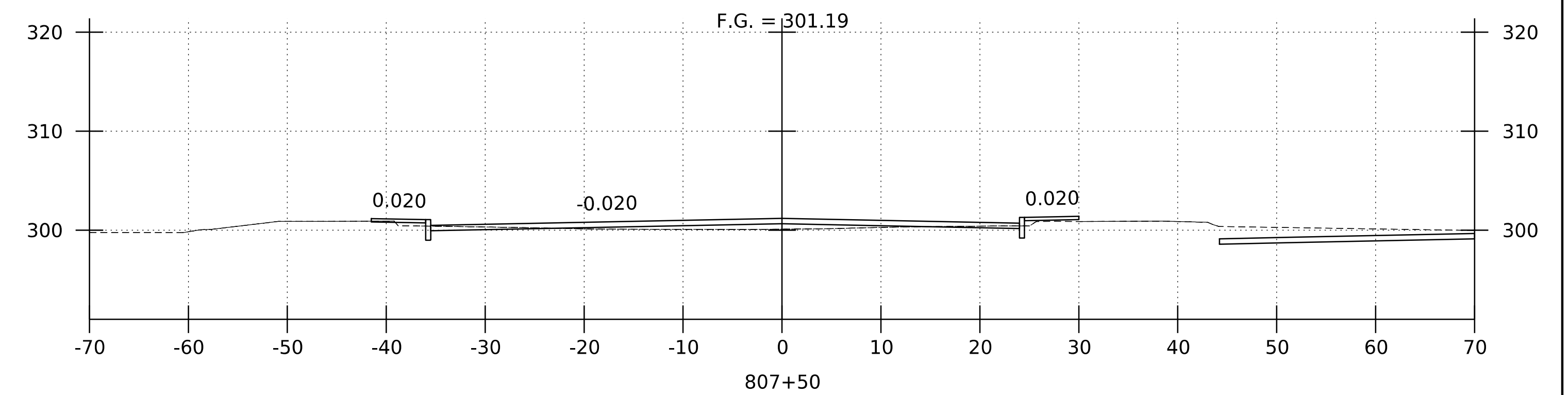
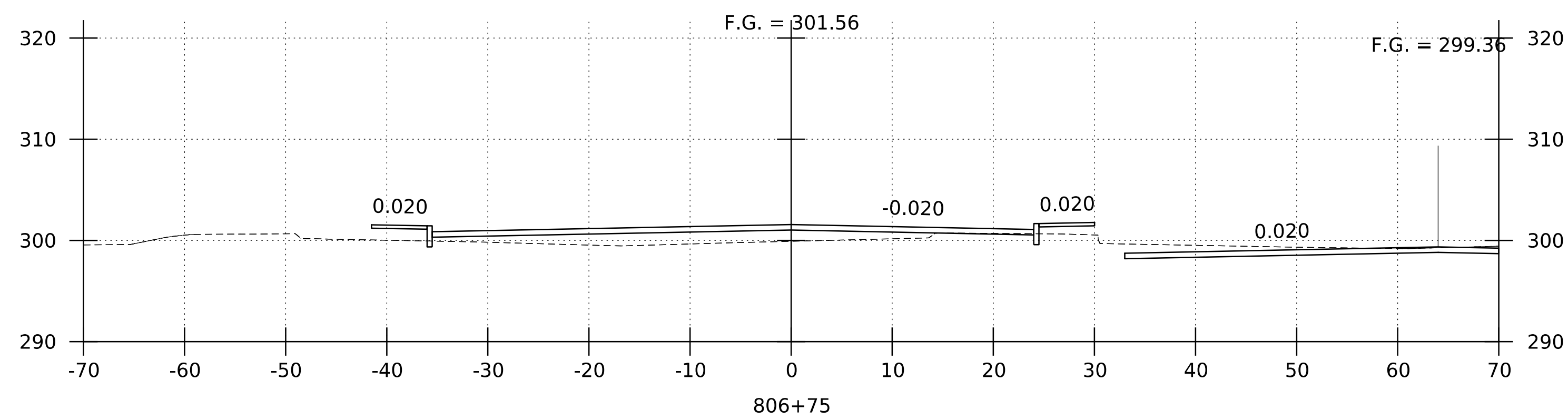
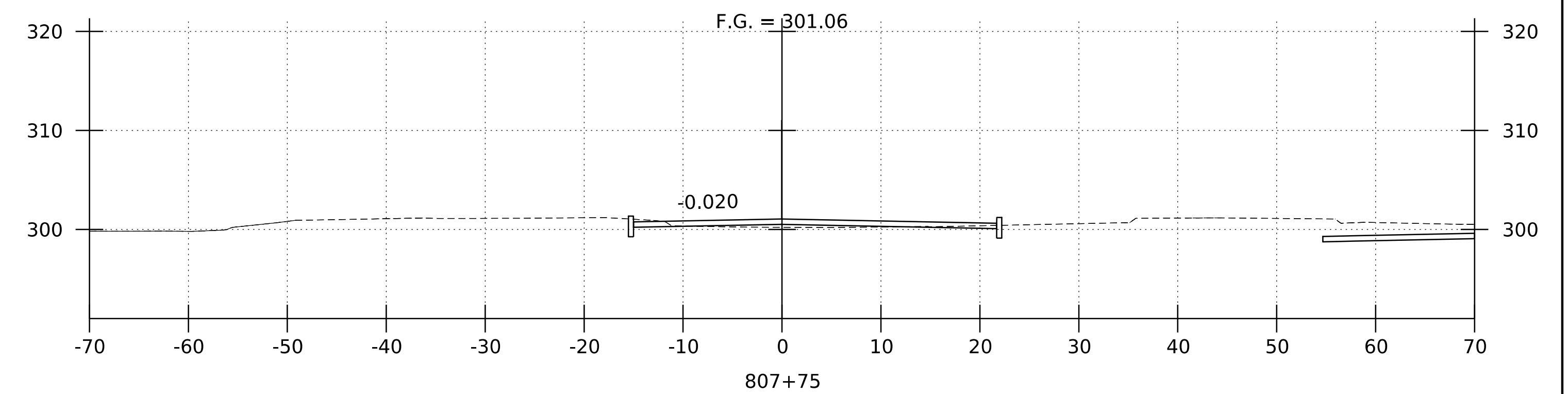
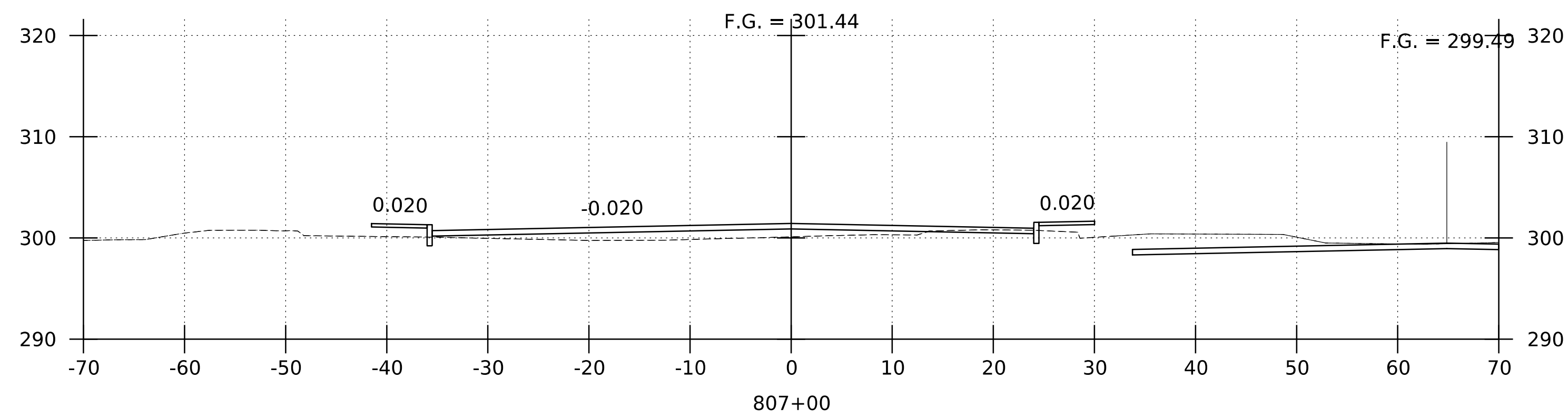
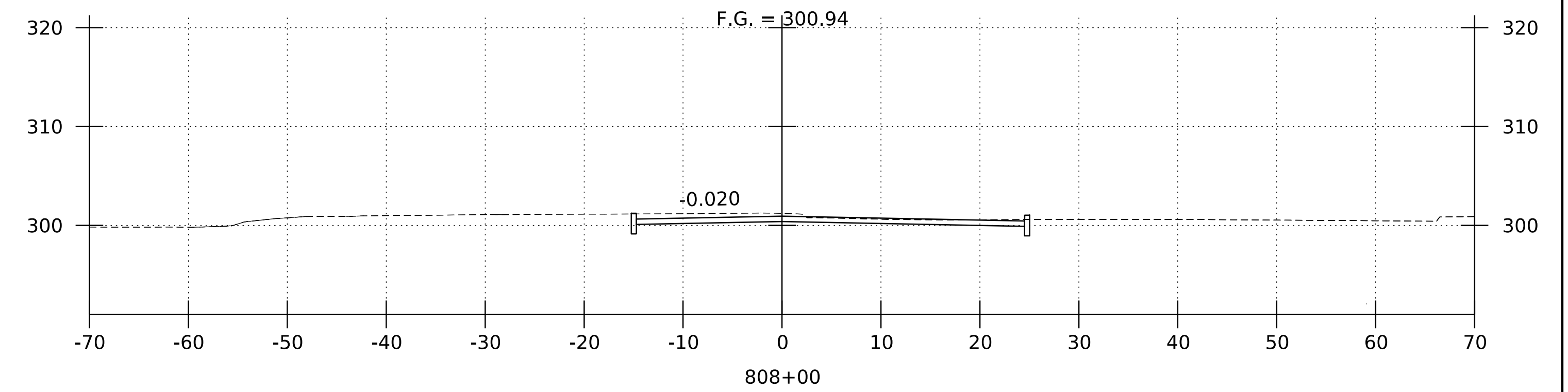
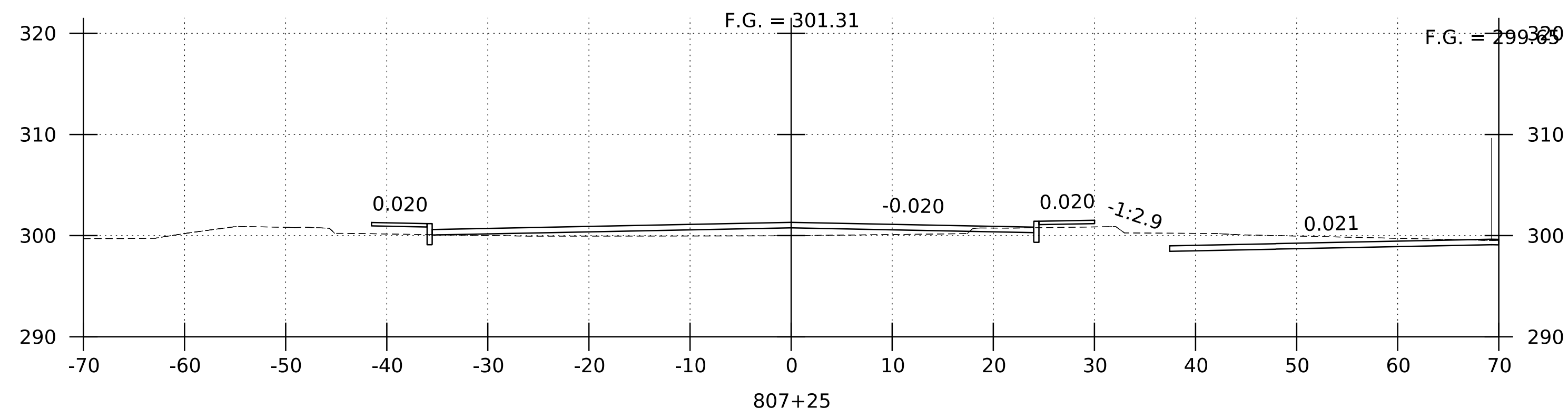
DEPOT STREET CROSS SECTIONS (4 OF 6)

PLOT DATE: 11/23/2021

DRAWN BY: R.J. FORBES

CHECKED BY: K.C. BARRY

SHEET 24 OF 43



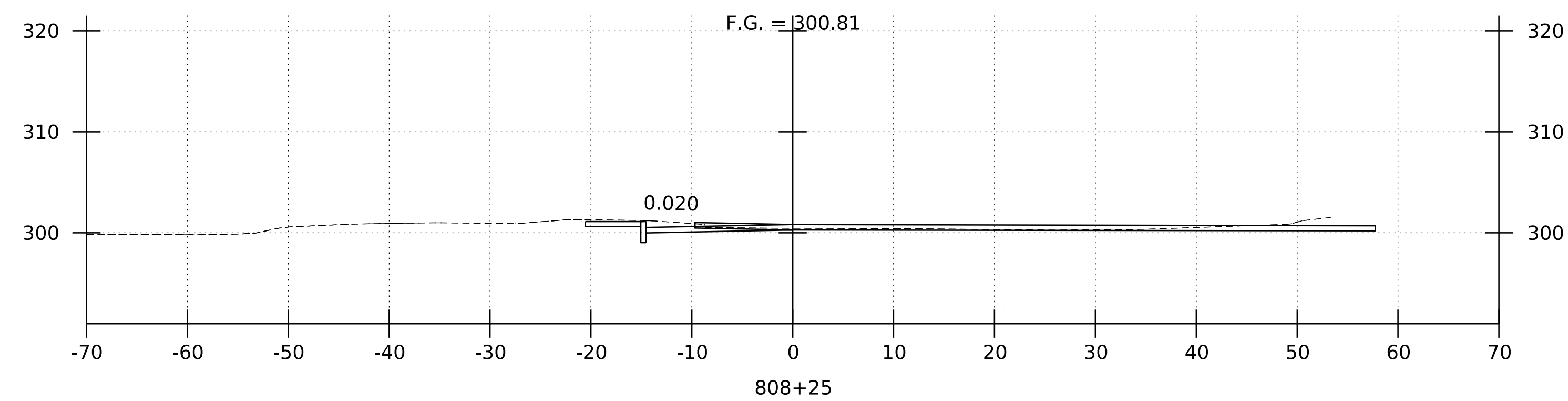
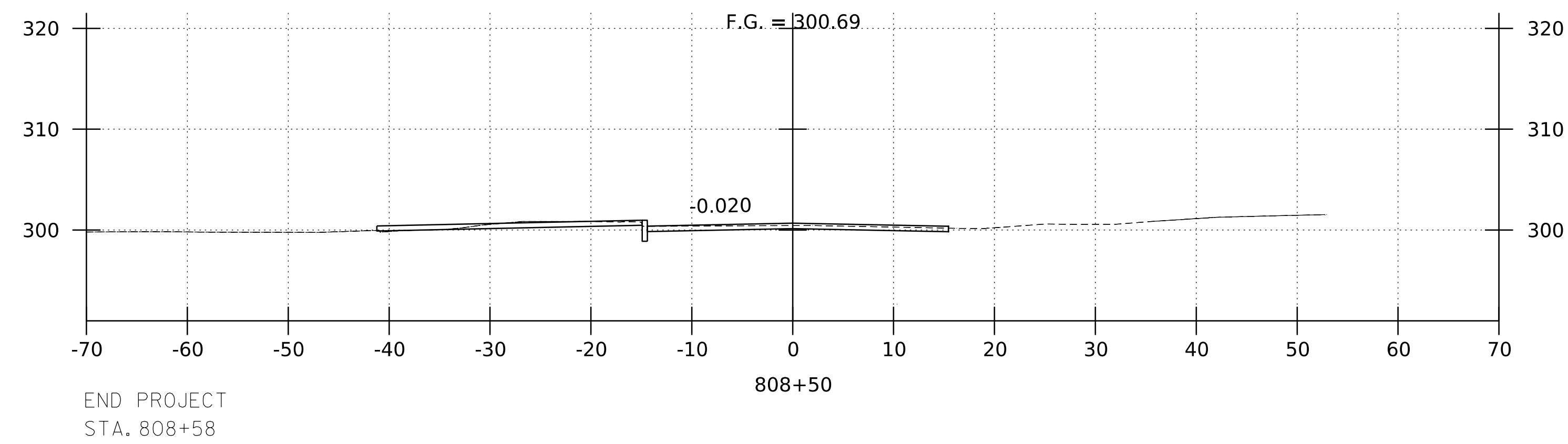
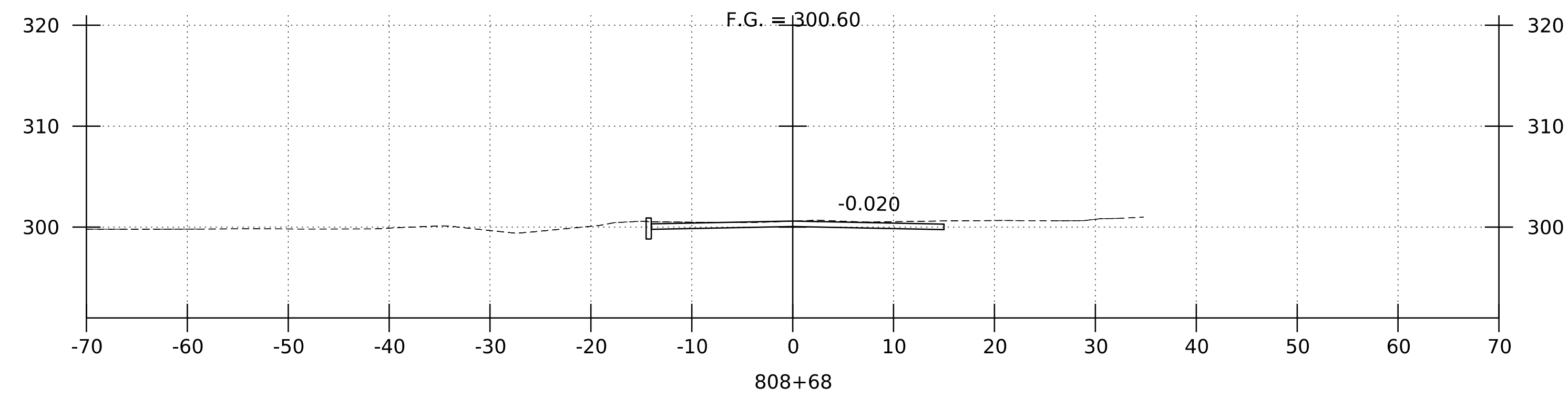
# DEPOT STREET CROSS SECTIONS

STA. 806+75 - 808+00

SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
DEPOT STREET CROSS SECTIONS (5 OF 6)	SHEET 25 OF 43



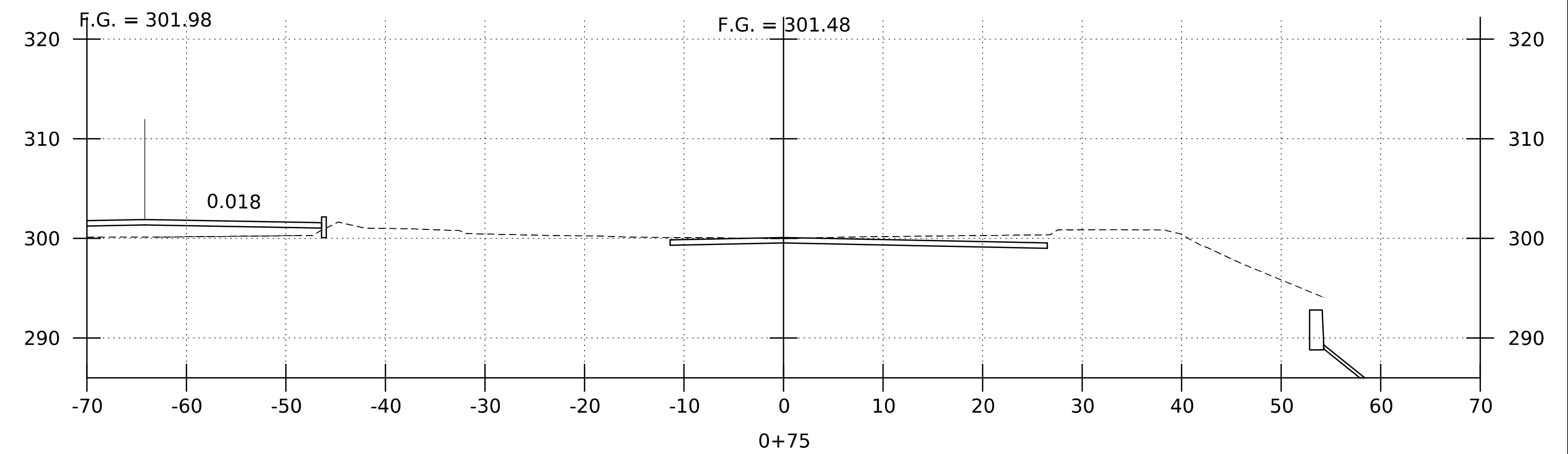
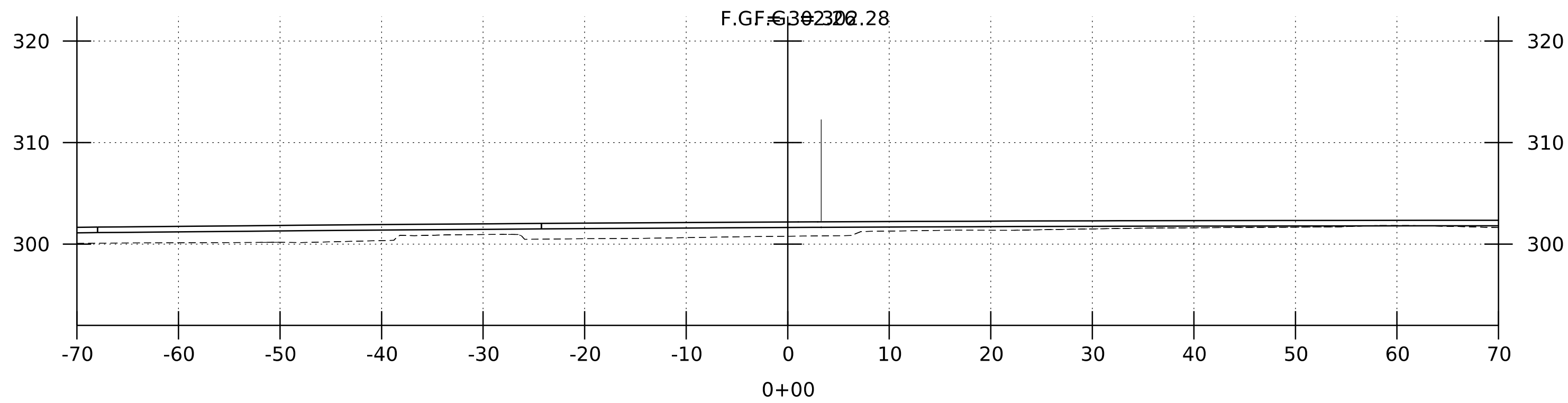
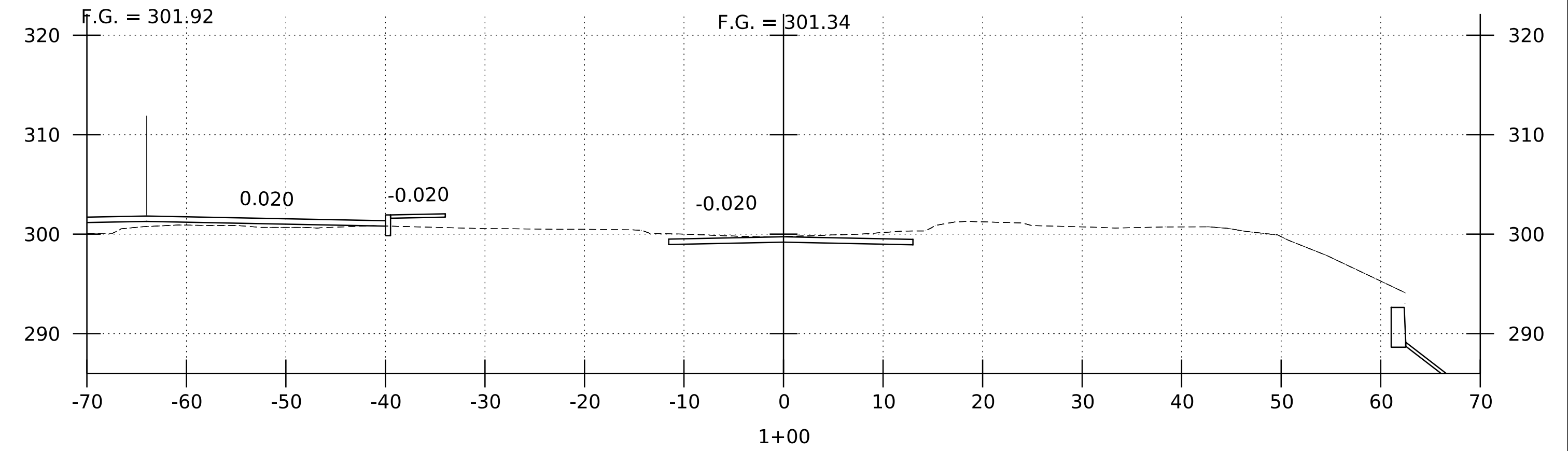
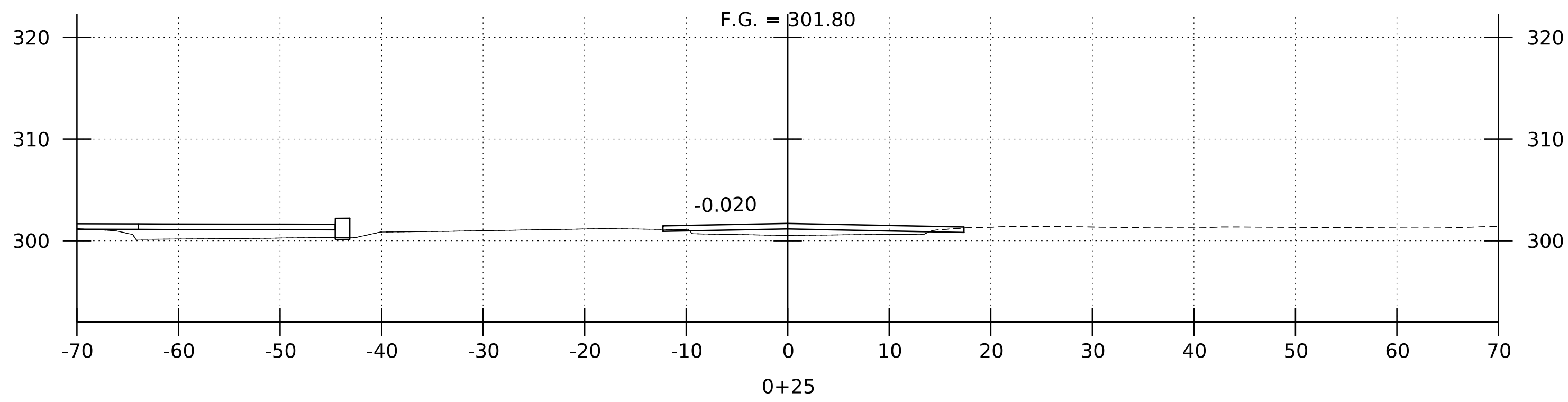
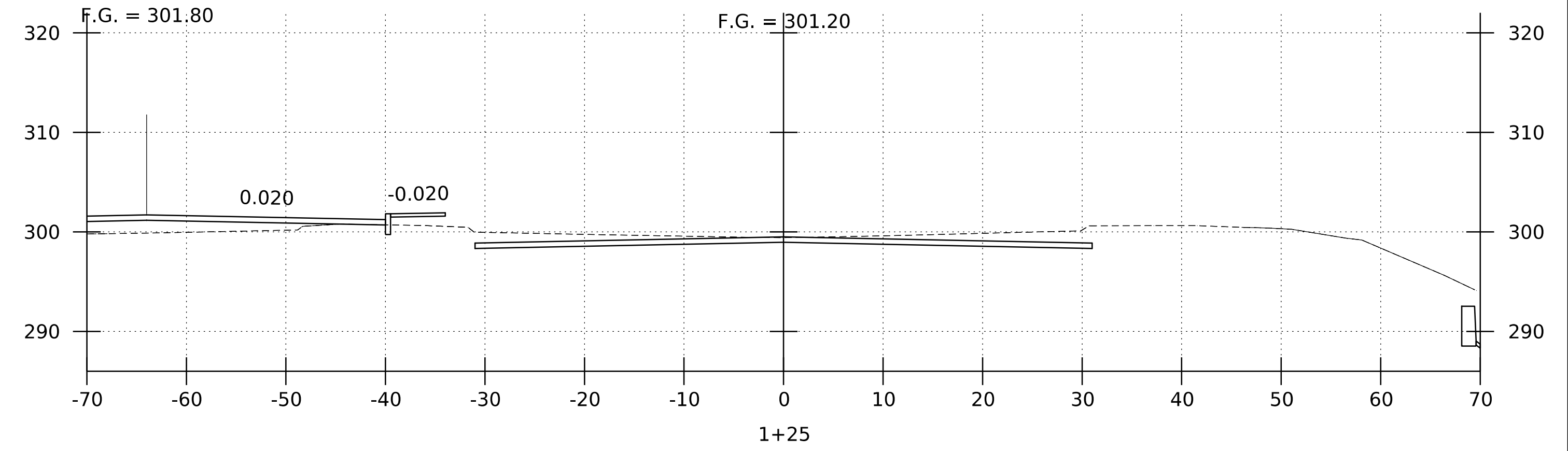
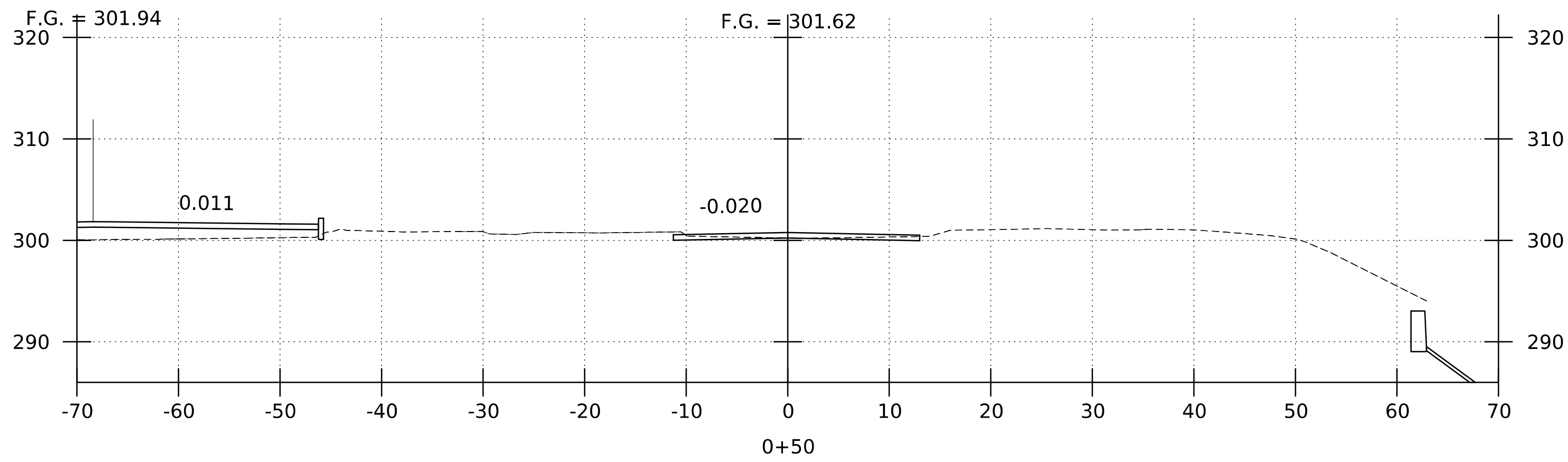
DEPOT STREET CROSS SECTIONS

STA. 808+25 - 808+68

SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
DEPOT STREET CROSS SECTIONS (6 OF 6)	SHEET 26 OF 43



### SIDELINE CROSS SECTIONS

STA. 0+00 - 1+25

SCALE: 1" = 10' - 0"

PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)

PROJECT NUMBER: BO 1442(4I)

FILE NAME: z16j181xs_ord.dgn

PROJECT LEADER: S.E. BURBANK

DESIGNED BY: R.J. FORBES

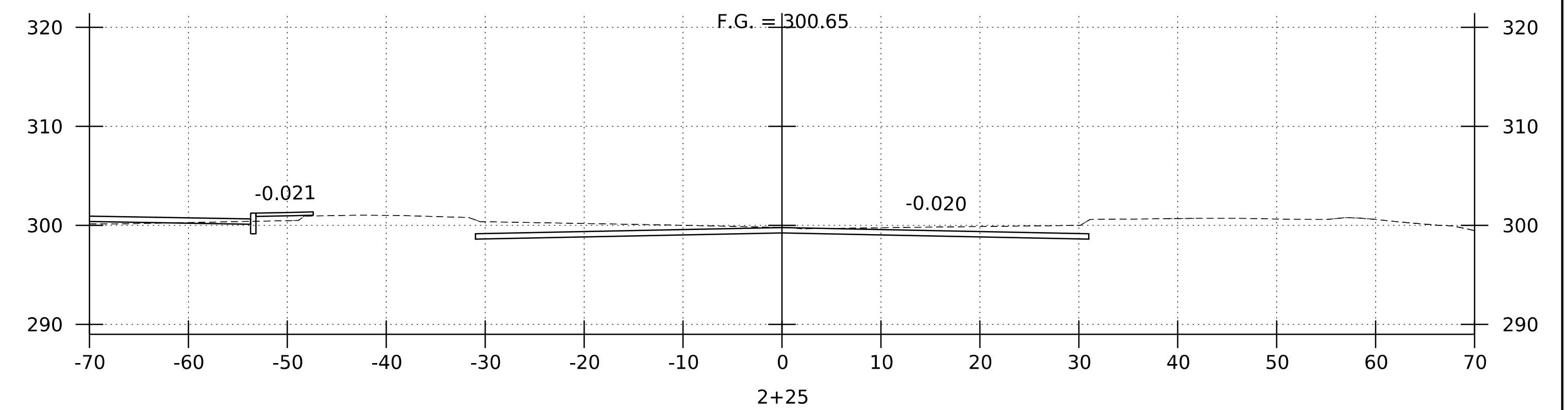
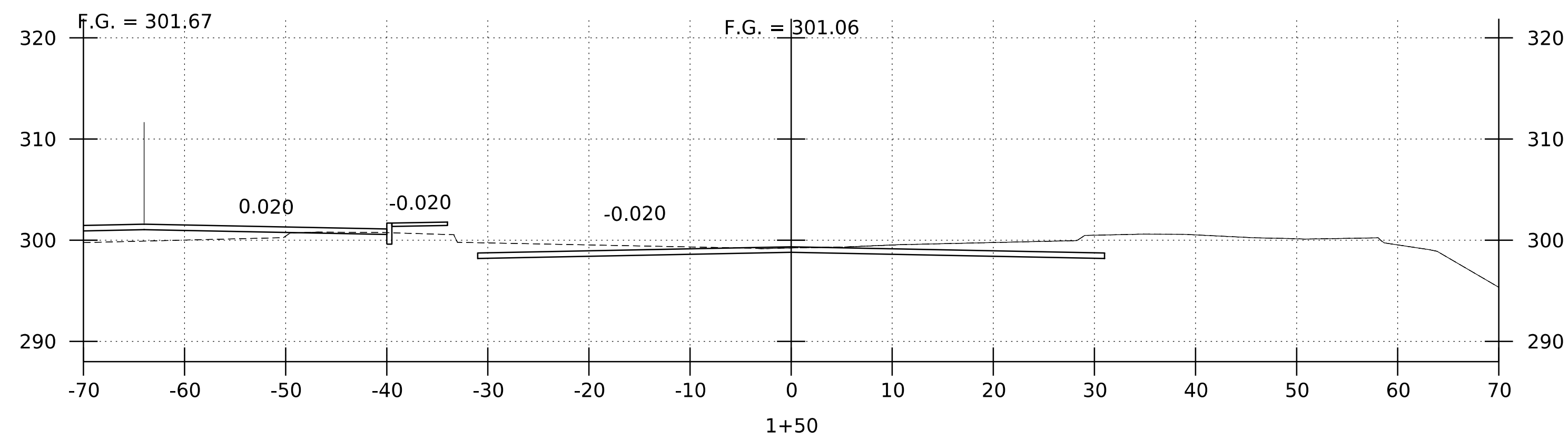
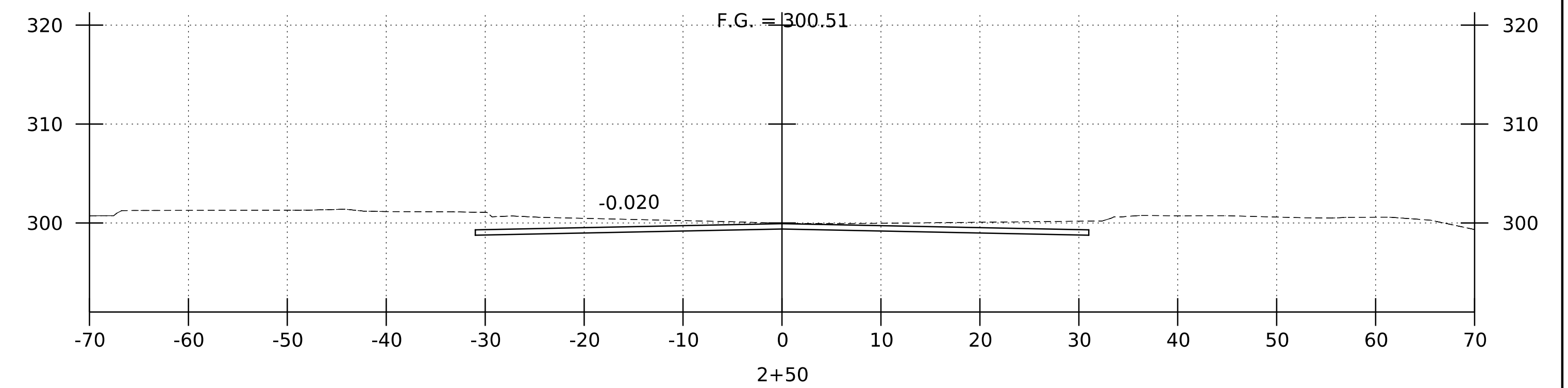
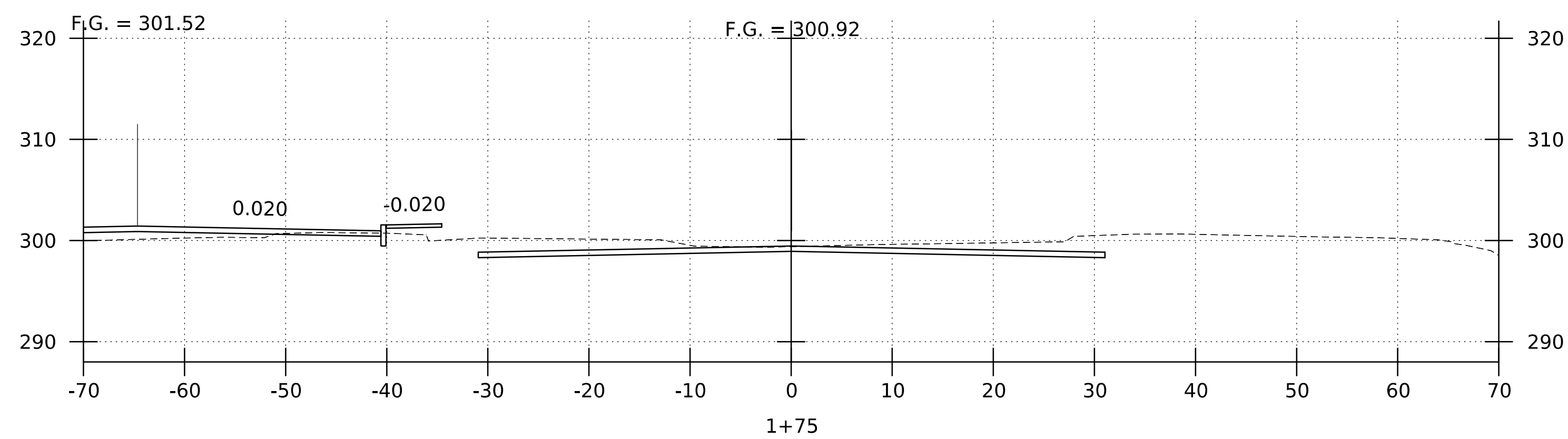
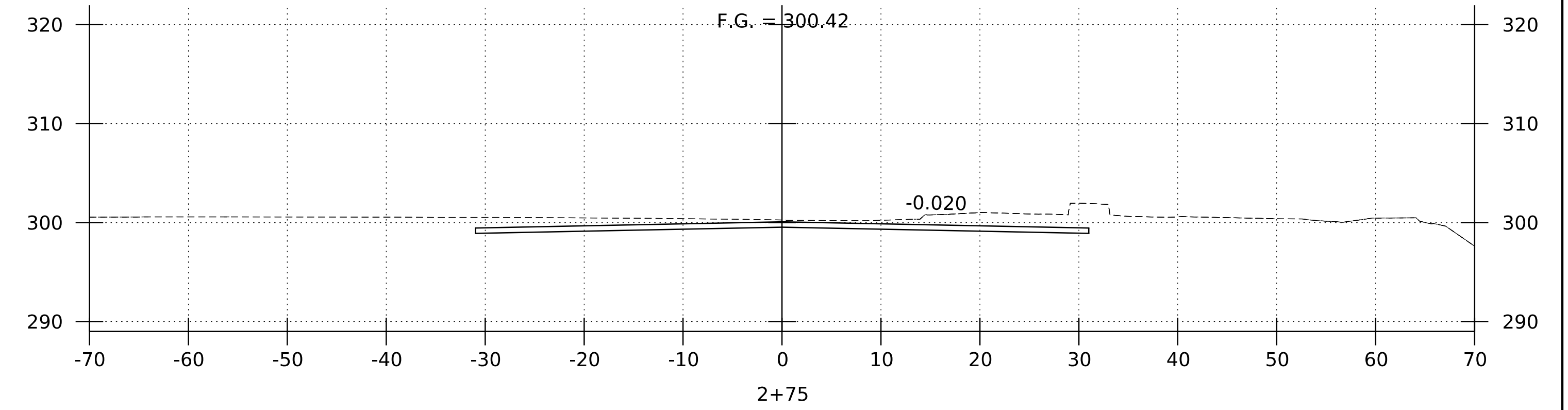
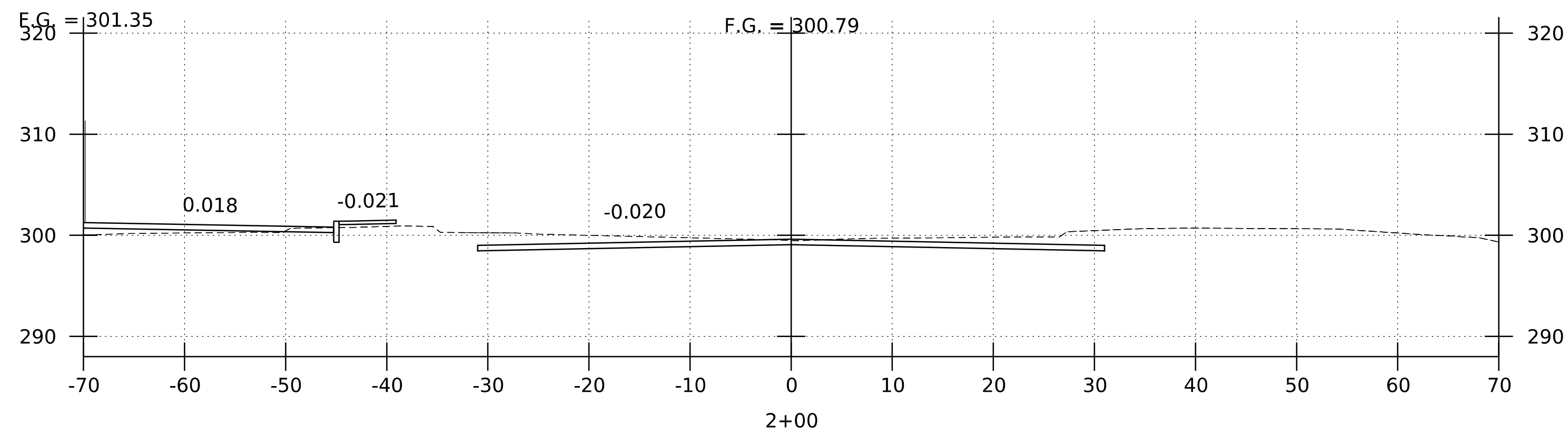
SIDELINE CROSS SECTIONS (1 OF 3)

PLOT DATE: 11/23/2021

DRAWN BY: R.J. FORBES

CHECKED BY: K.C. BARRY

SHEET 27 OF 43



### SIDELINE CROSS SECTIONS

STA. 1+50 - 2+75

SCALE: 1" = 10' - 0"

PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)

PROJECT NUMBER: BO 1442(4I)

FILE NAME: z16j181xs_ord.dgn

PROJECT LEADER: S.E. BURBANK

DESIGNED BY: R.J. FORBES

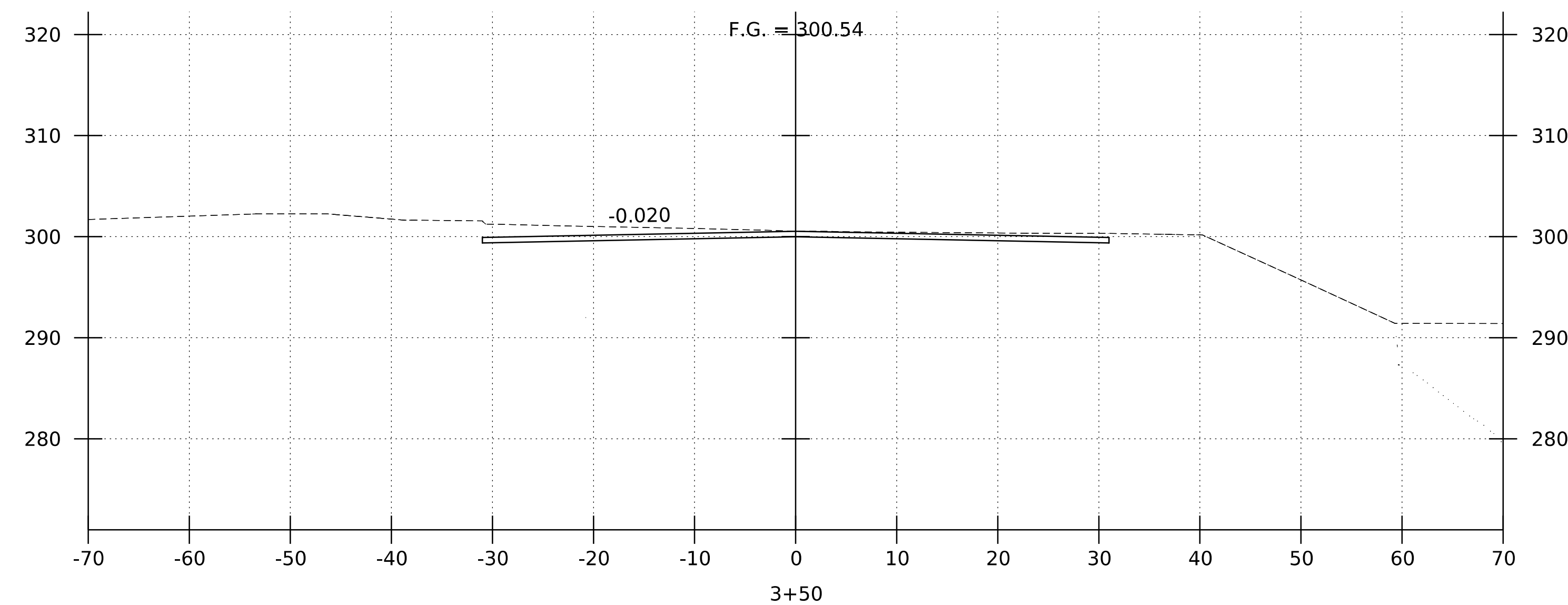
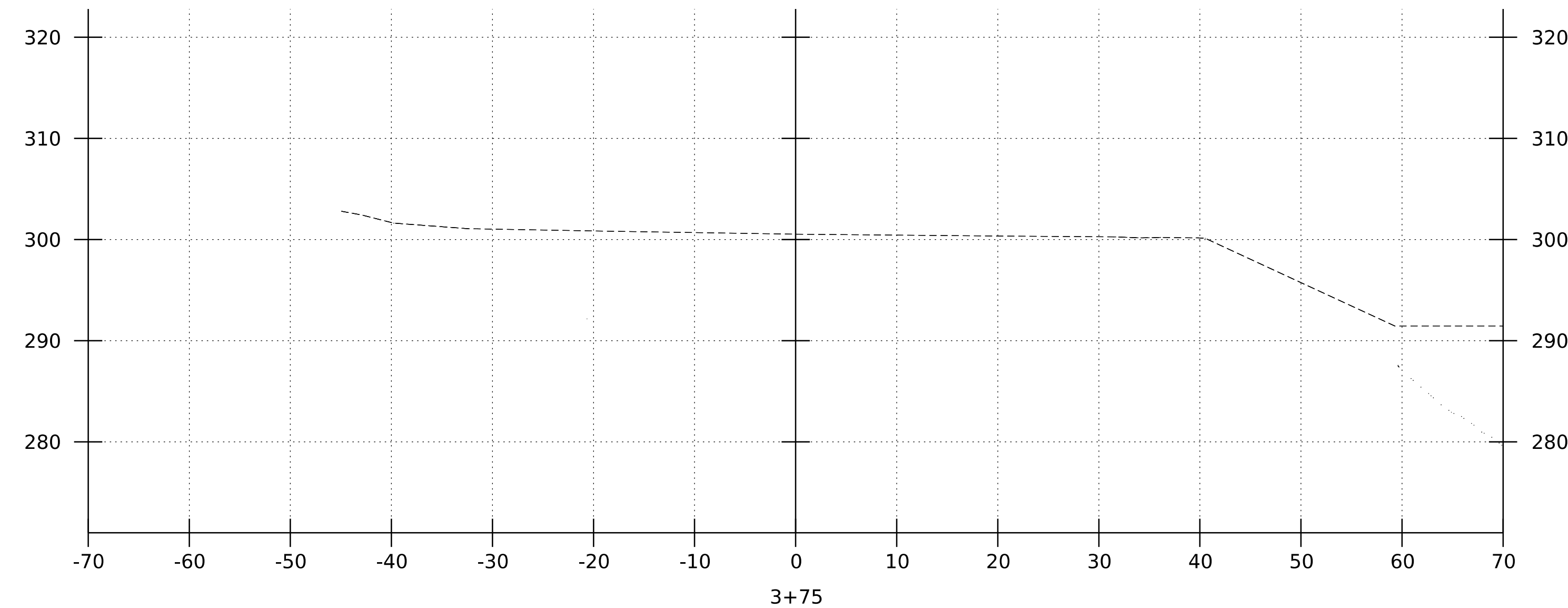
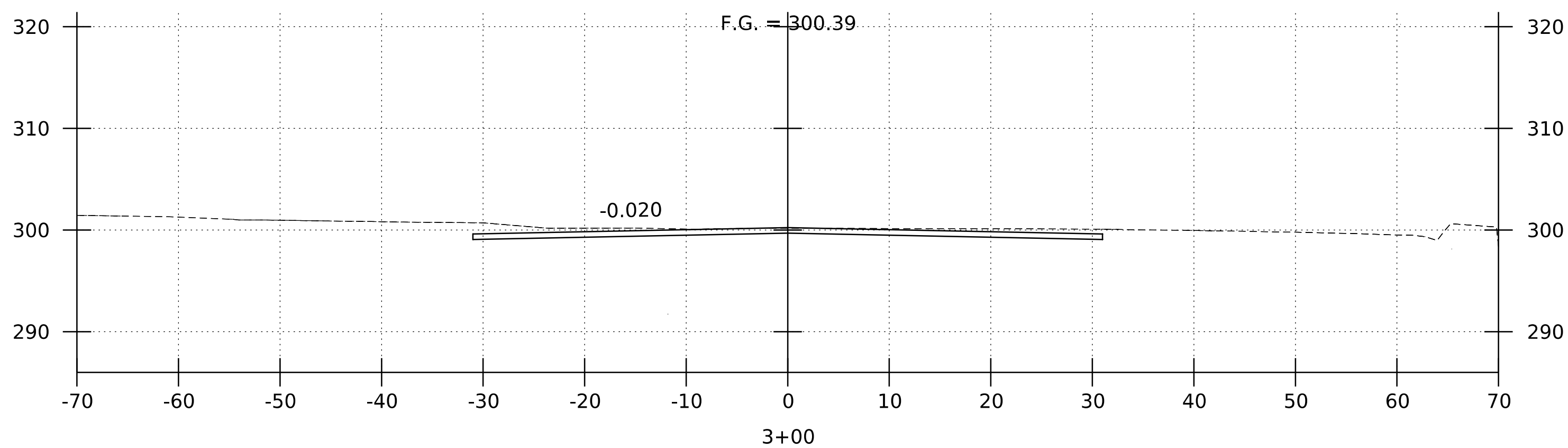
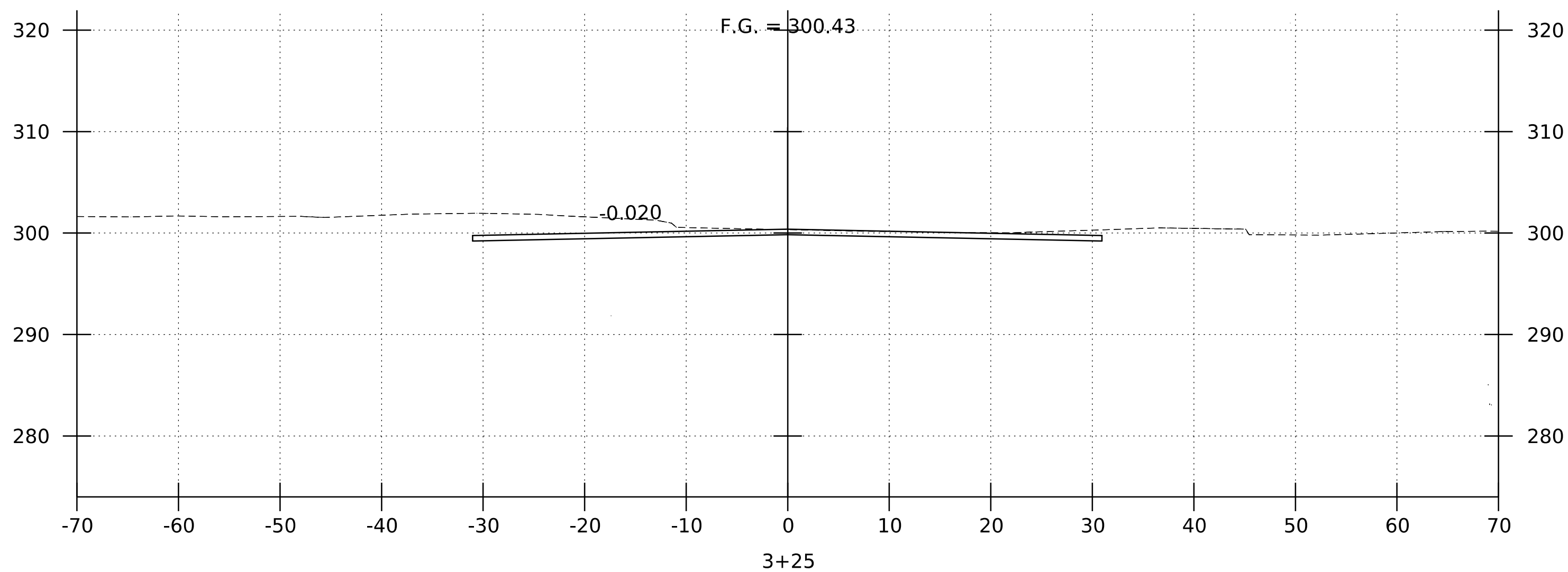
SIDELINE CROSS SECTIONS (2 OF 3)

PLOT DATE: 11/23/2021

DRAWN BY: R.J. FORBES

CHECKED BY: K.C. BARRY

SHEET 28 OF 43



END PROJECT  
STA. 3+53

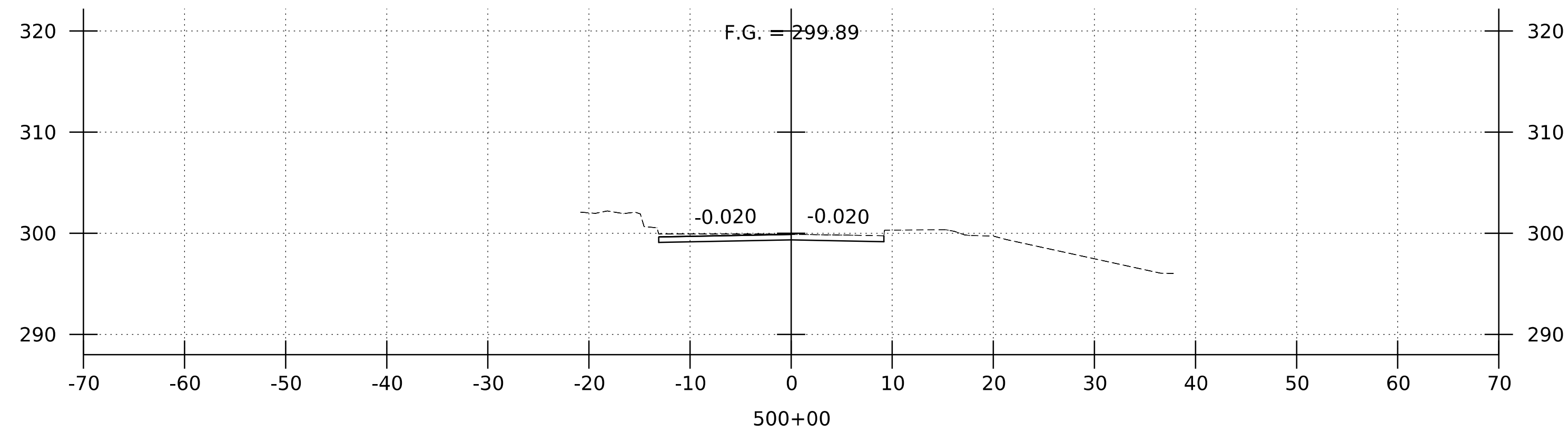
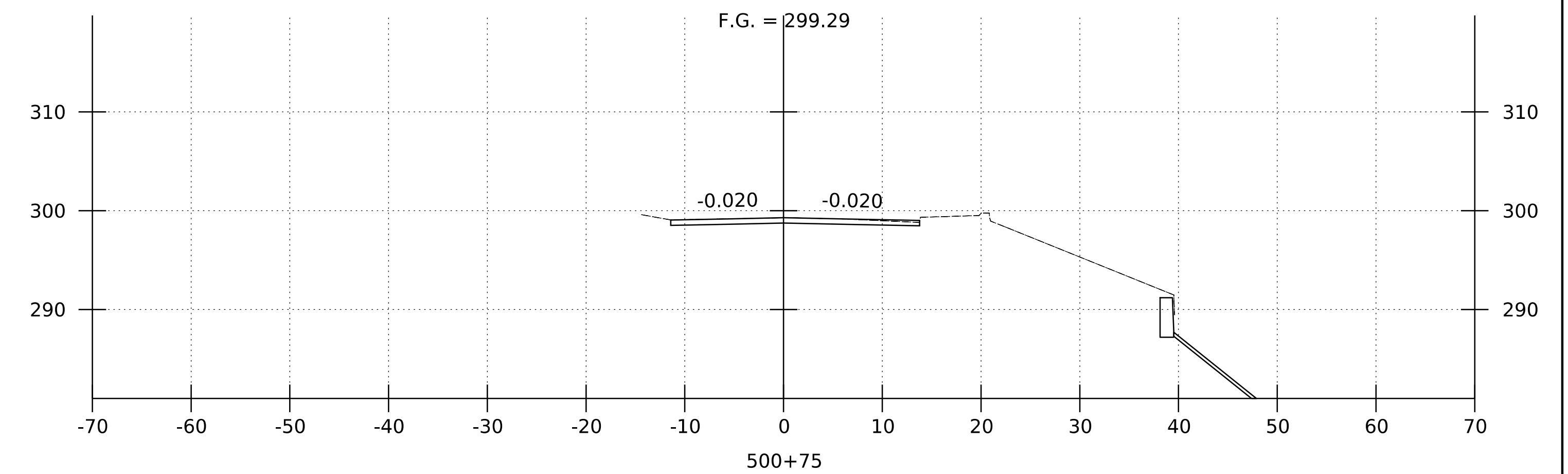
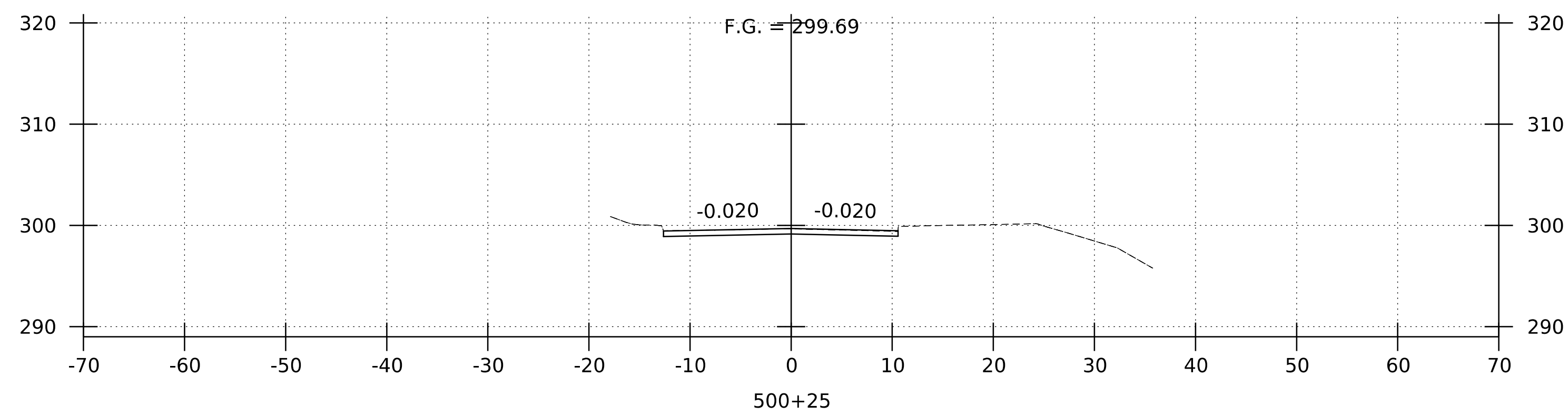
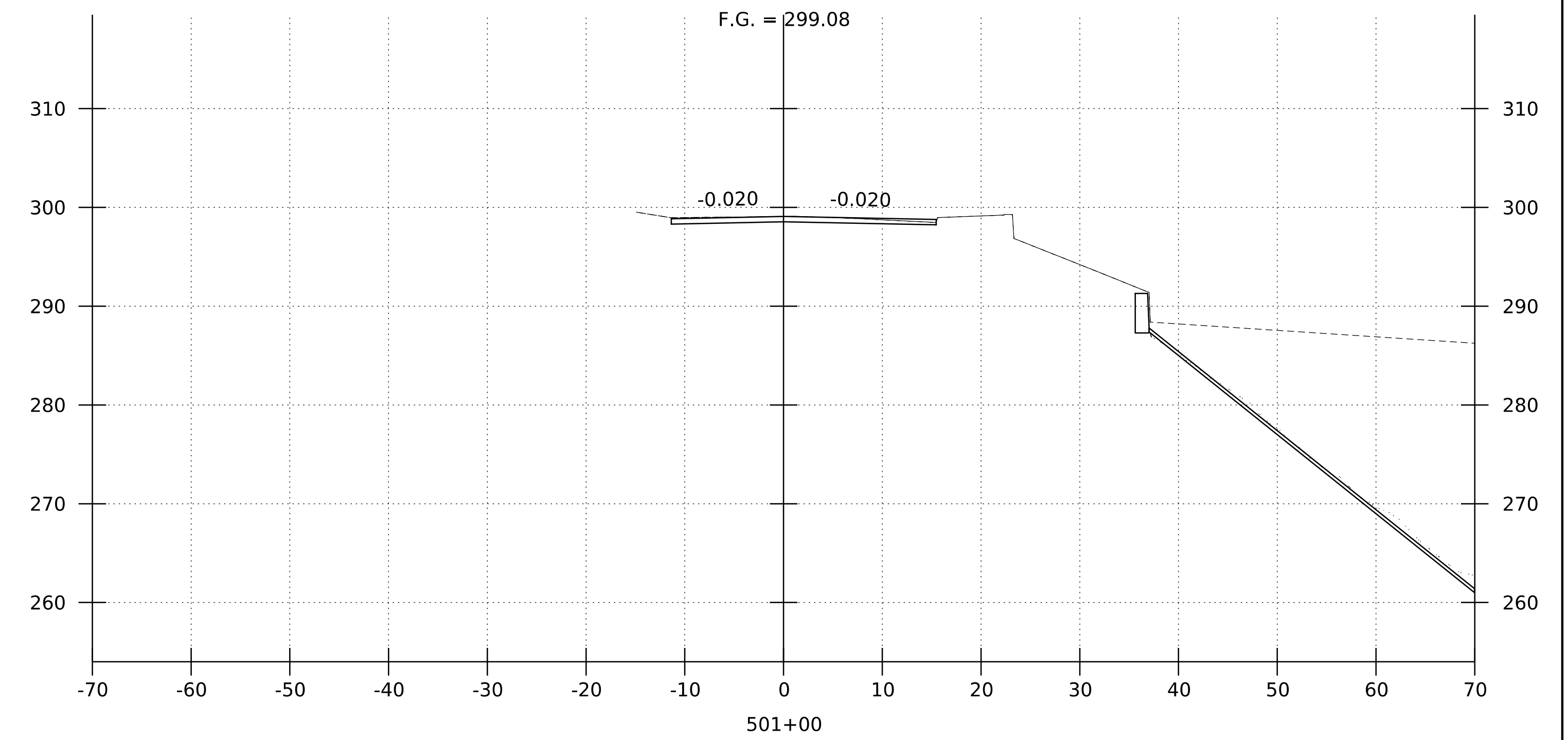
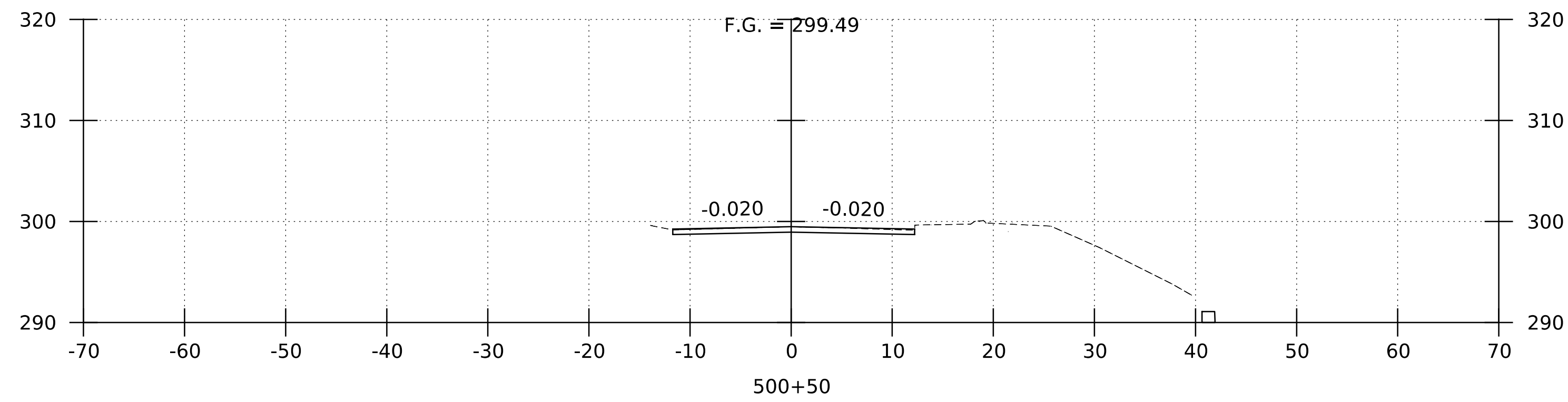
### SIDELINE CROSS SECTIONS

STA. 3+00 - 3+75  
SCALE: 1" = 10' - 0"

PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)  
PROJECT NUMBER: BO 1442(4I)

FILE NAME: z16j181xs_ord.dgn  
PROJECT LEADER: S.E. BURBANK  
DESIGNED BY: R.J. FORBES  
SIDELINE CROSS SECTIONS (3 OF 3)

PLOT DATE: 11/23/2021  
DRAWN BY: R.J. FORBES  
CHECKED BY: K.C. BARRY  
SHEET 29 OF 43



BEGIN PROJECT  
STA. 500+00

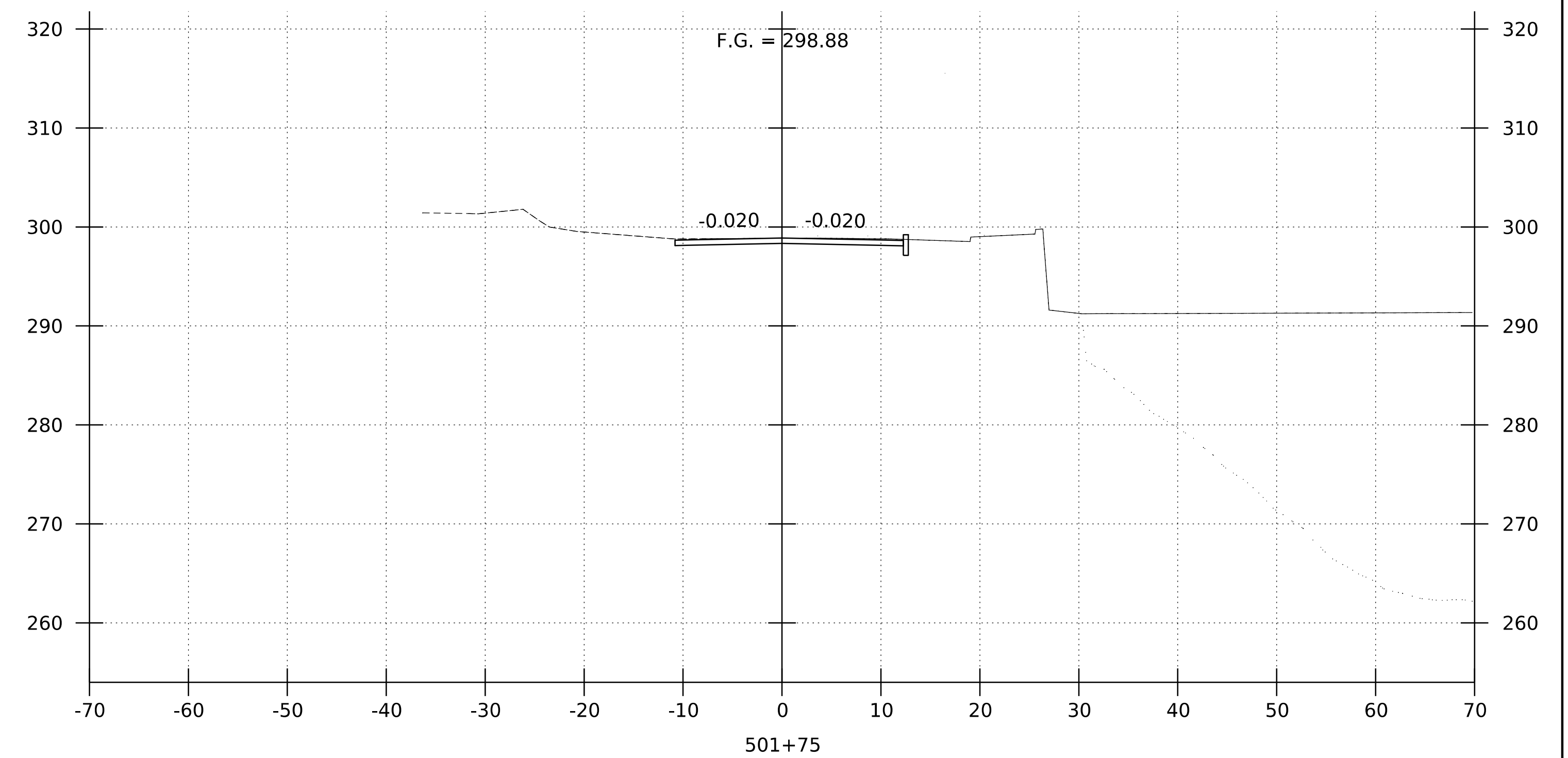
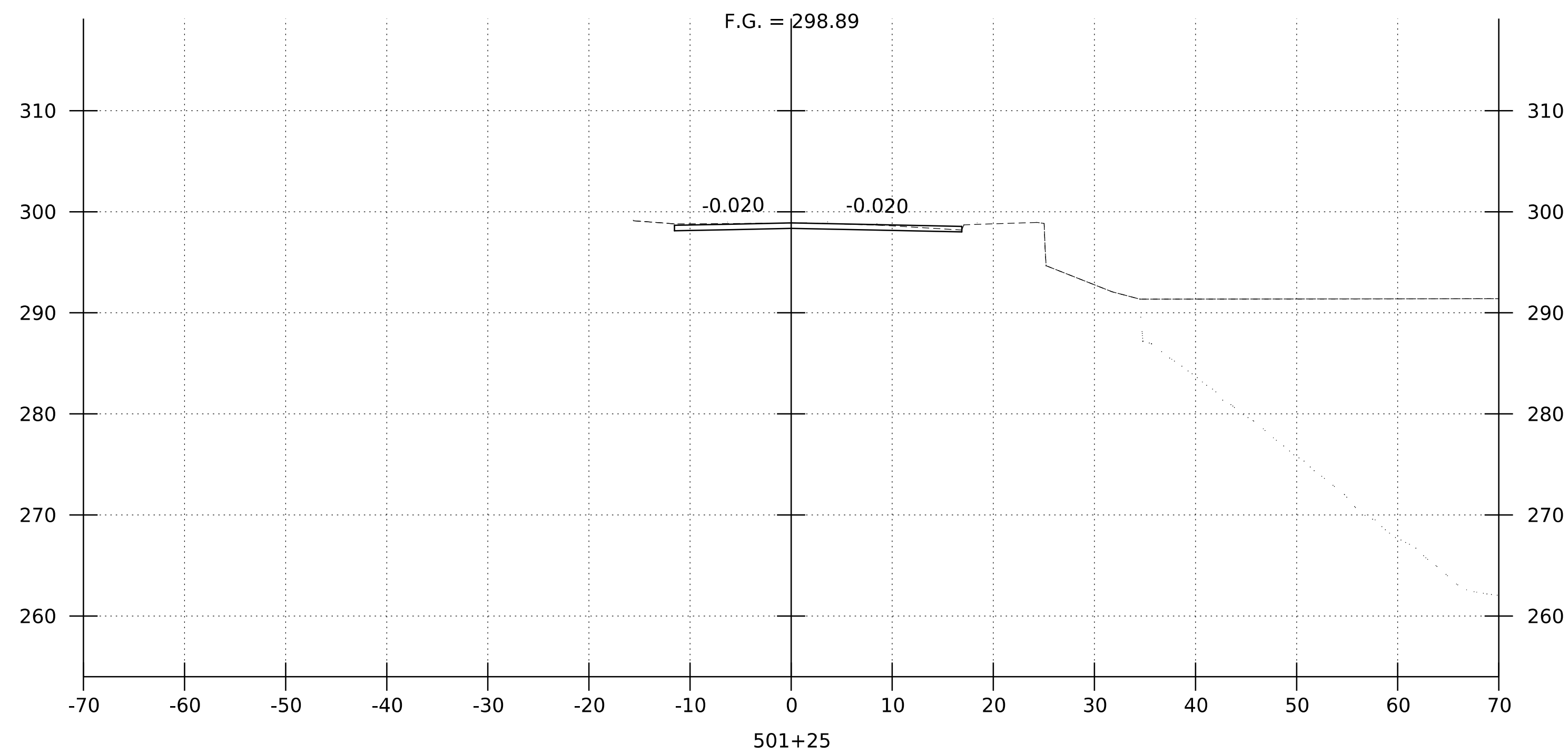
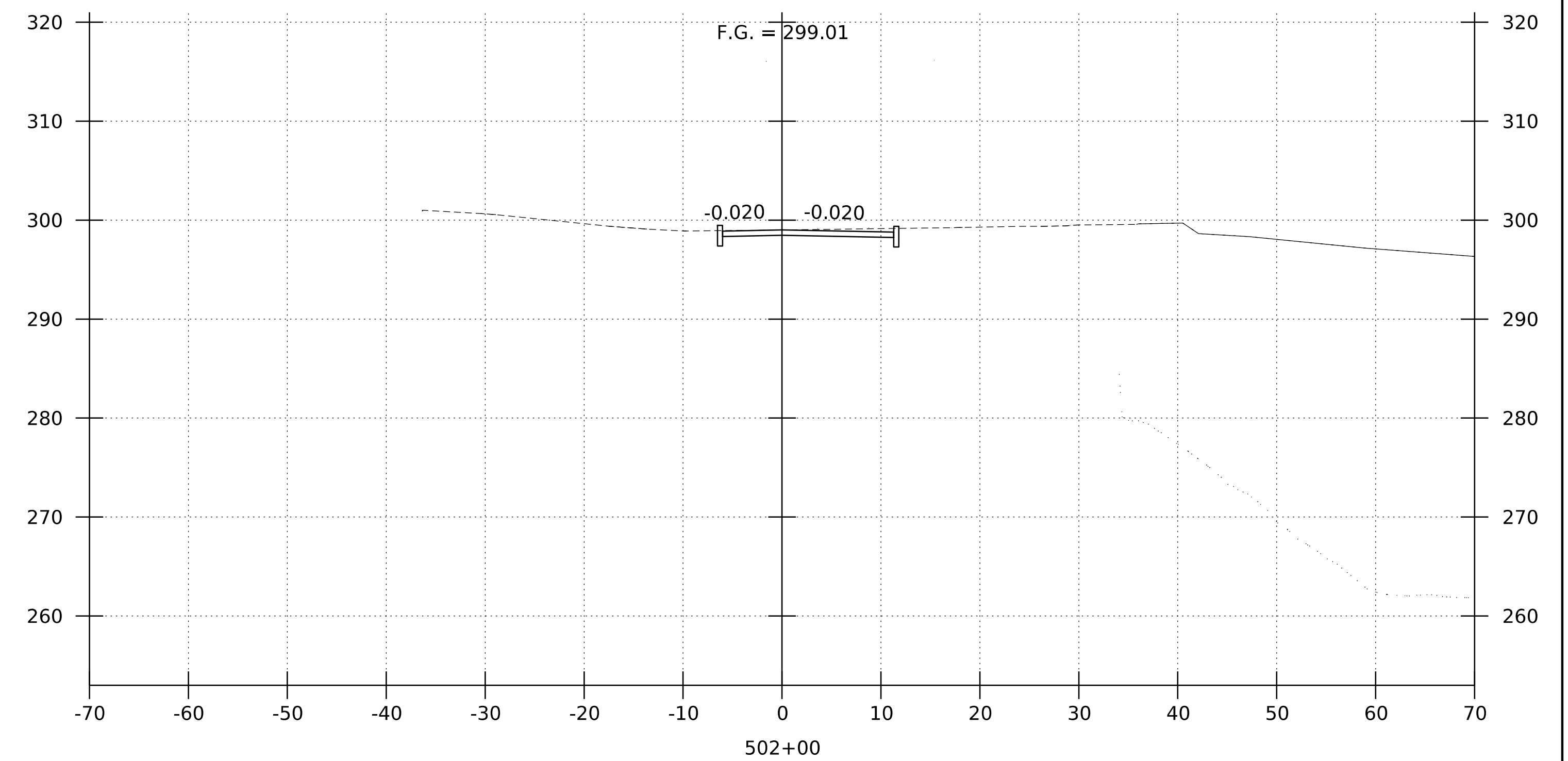
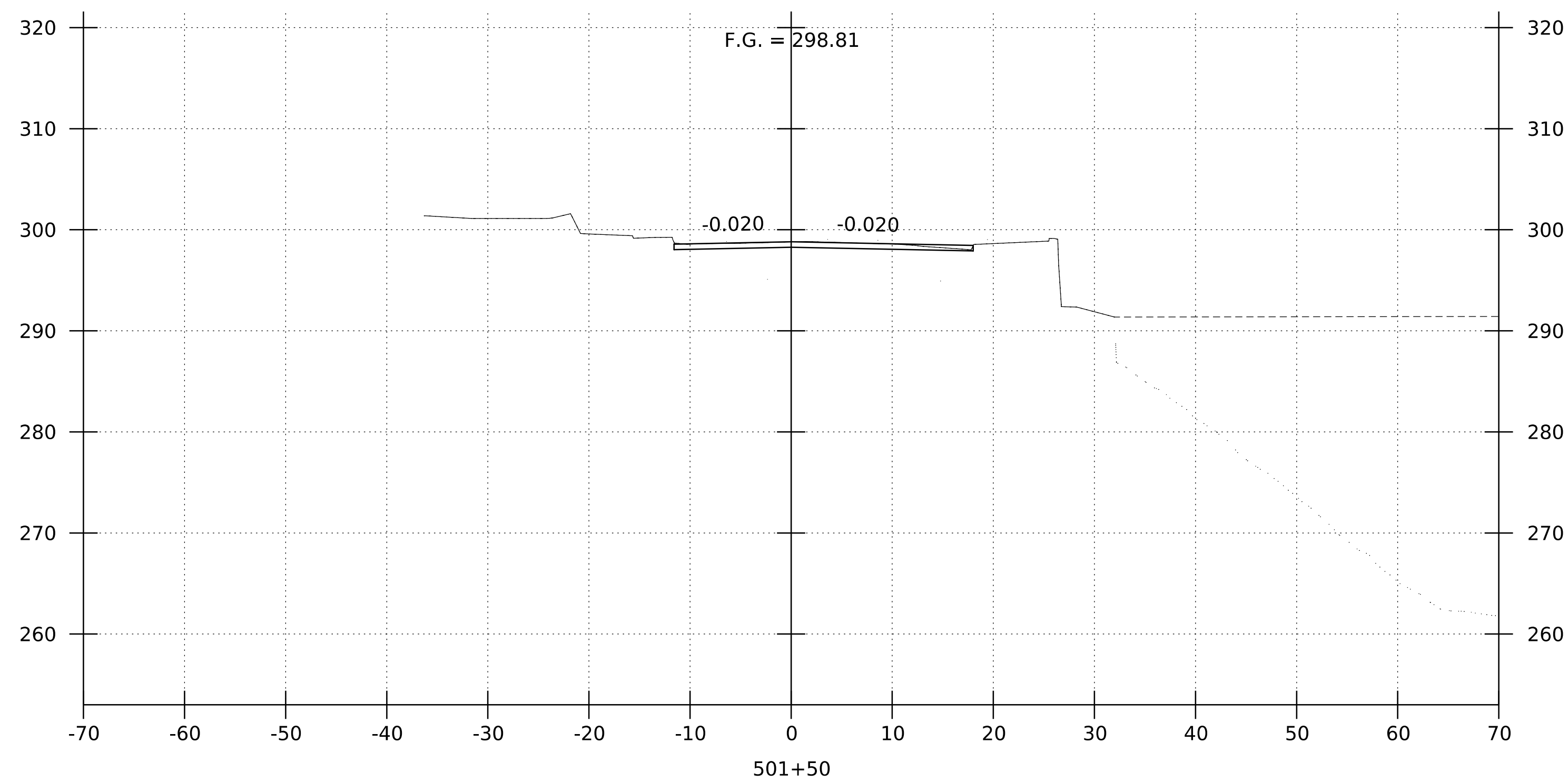
CANAL STREET CROSS SECTIONS

STA. 500+00 - 501+00

SCALE: 1" = 10' - 0"



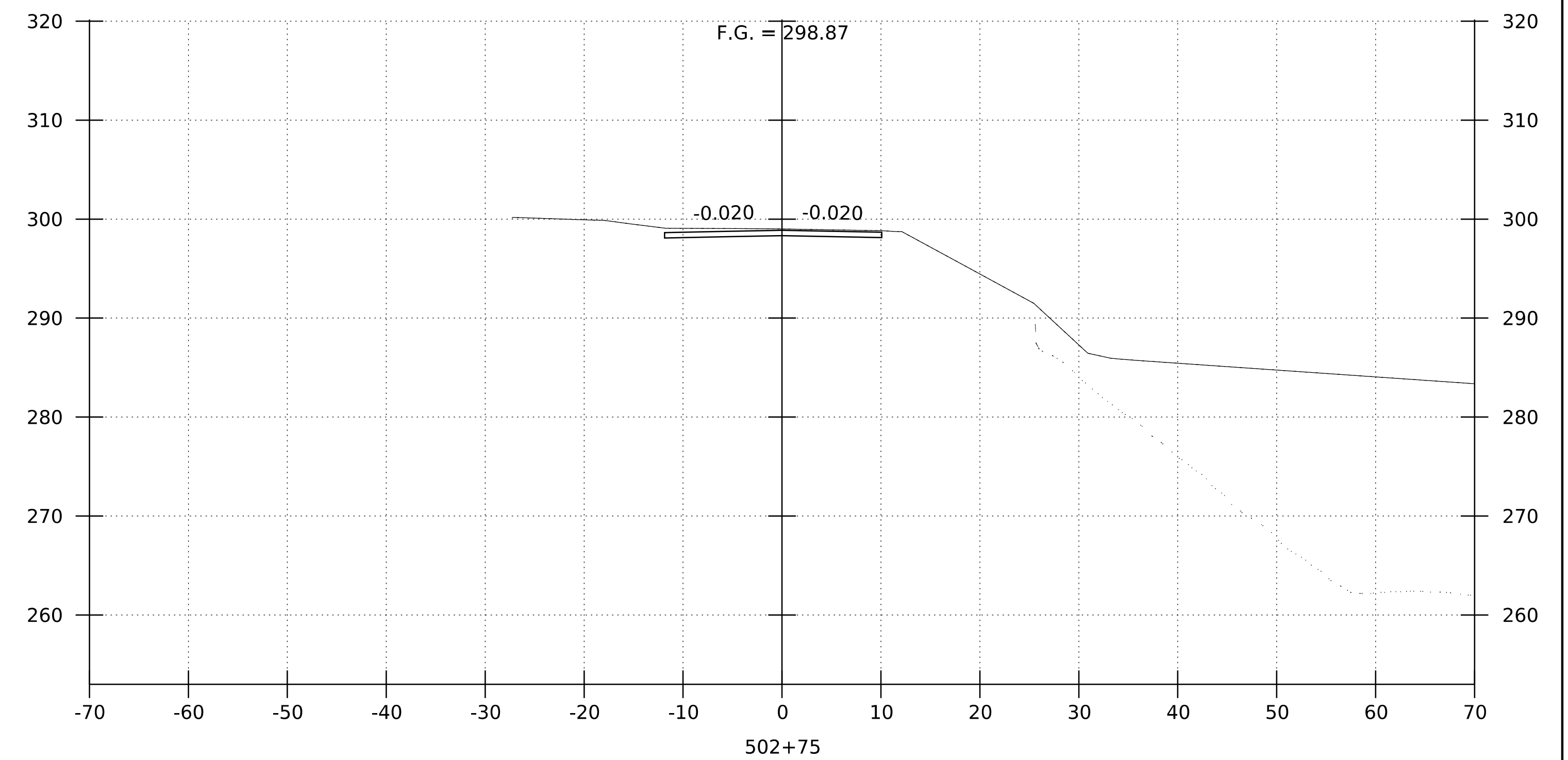
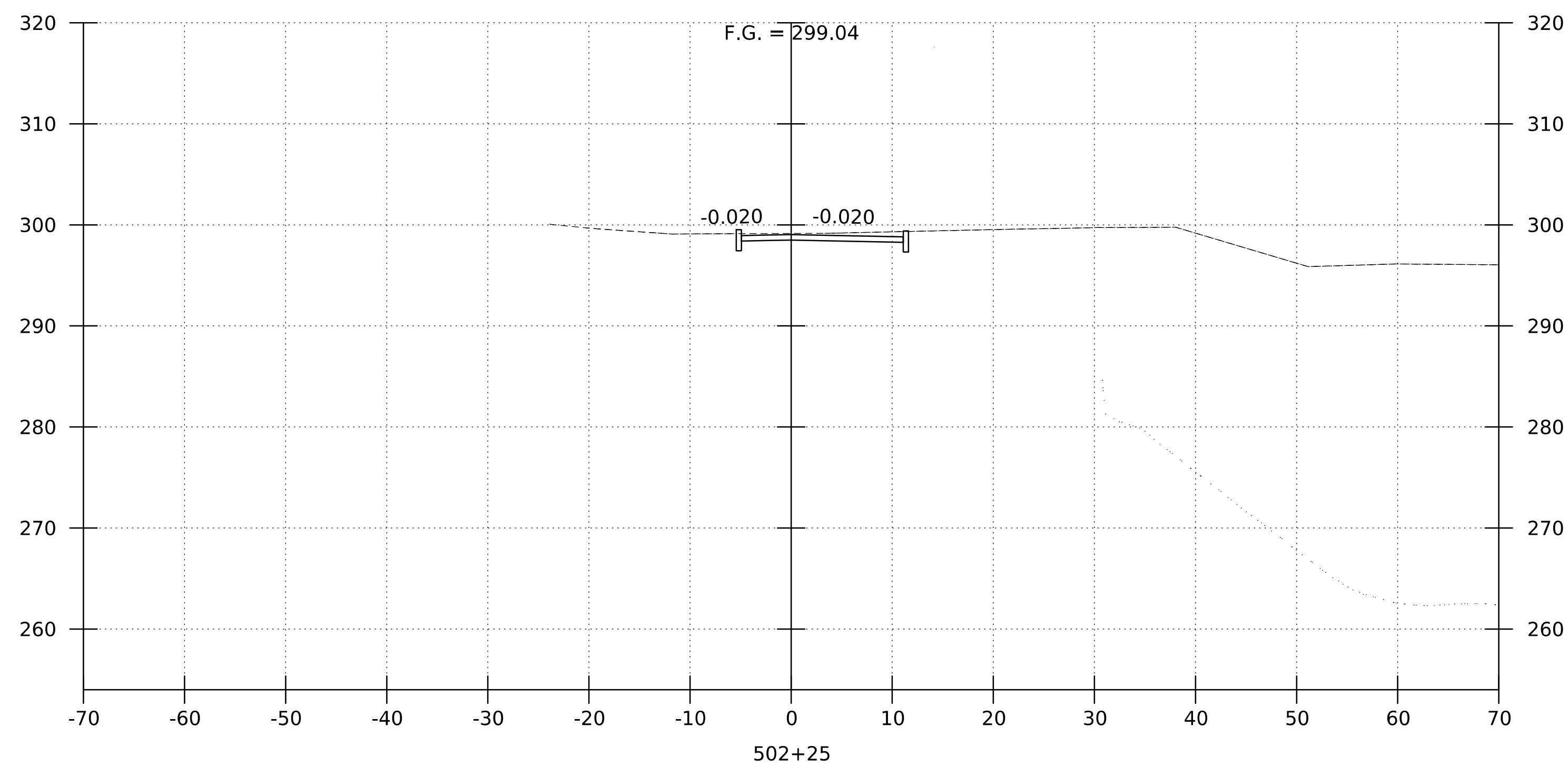
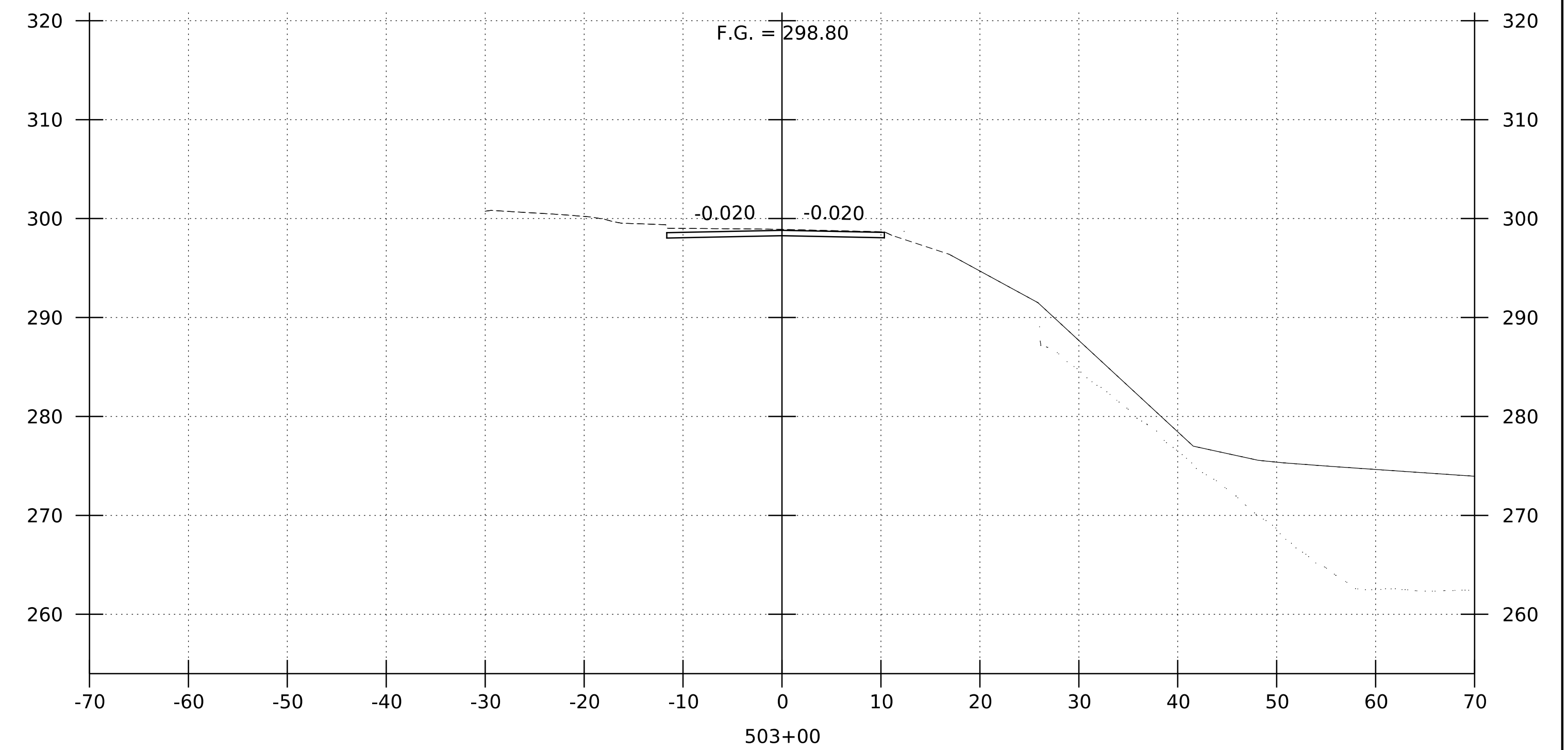
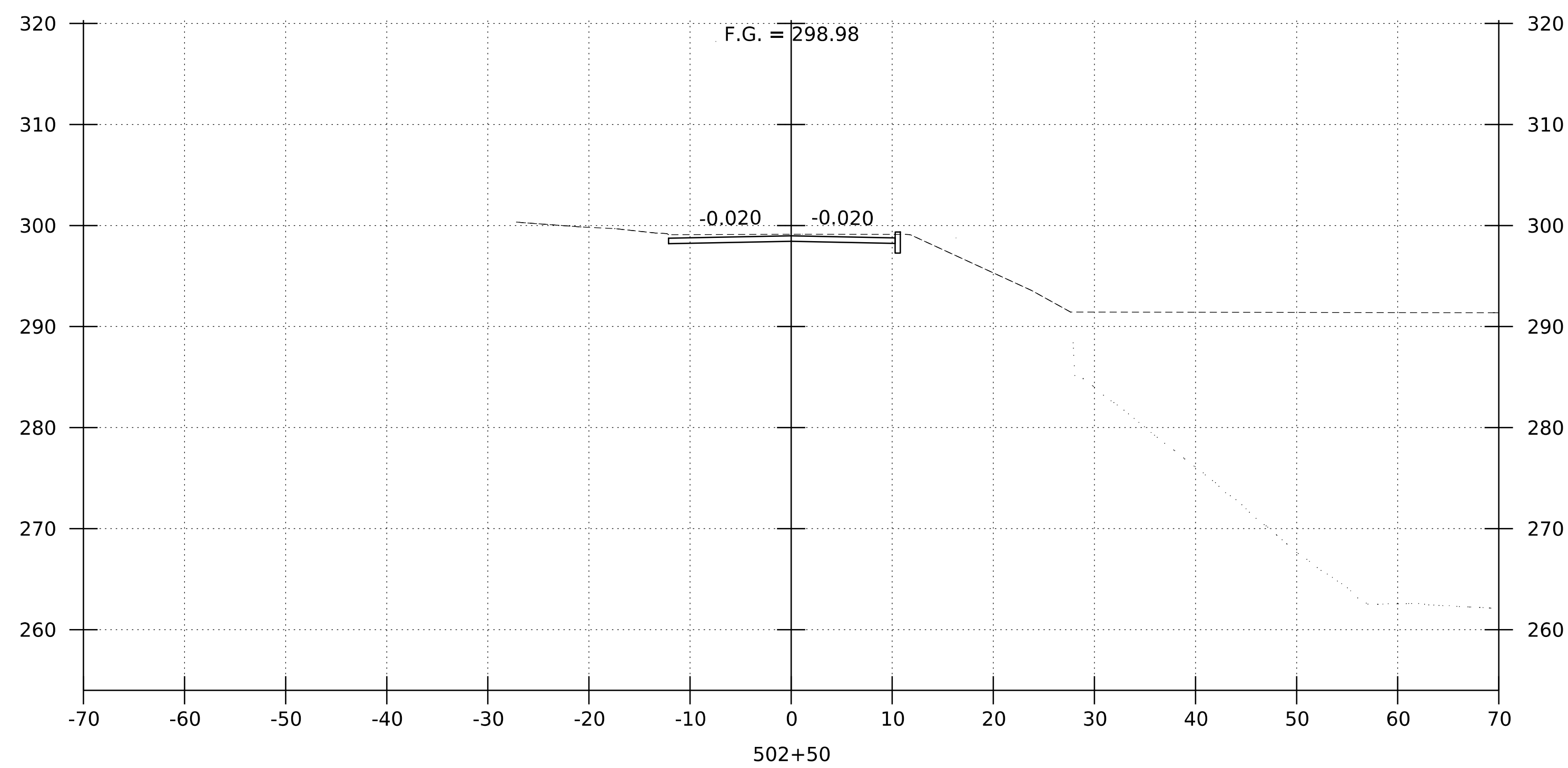
PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBSE
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CANAL STREET CROSS SECTIONS (10 OF 7)	SHEET 30 OF 43



CANAL STREET CROSS SECTIONS  
STA. 501+25 - 502+00  
SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CANAL STREET CROSS SECTIONS (2 OF 7)	SHEET 31 OF 43



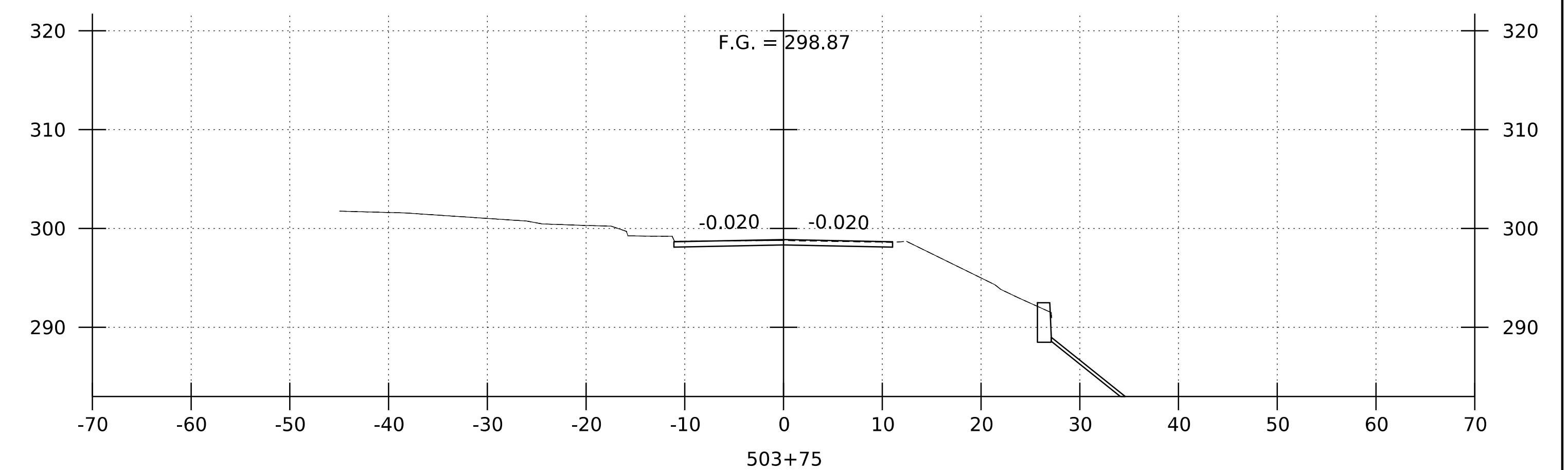
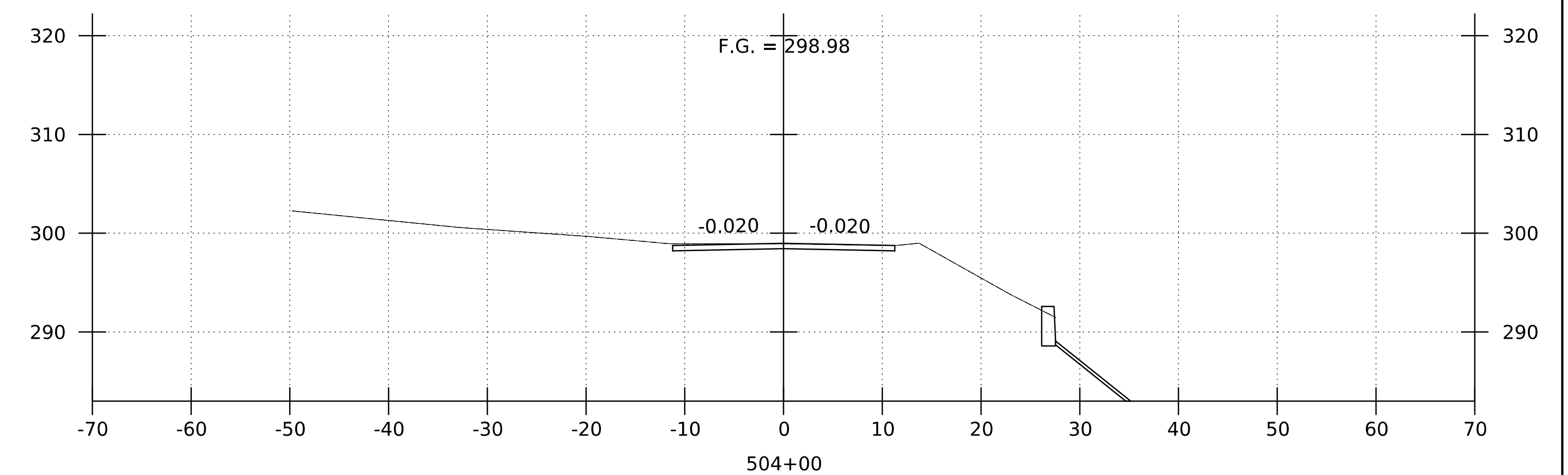
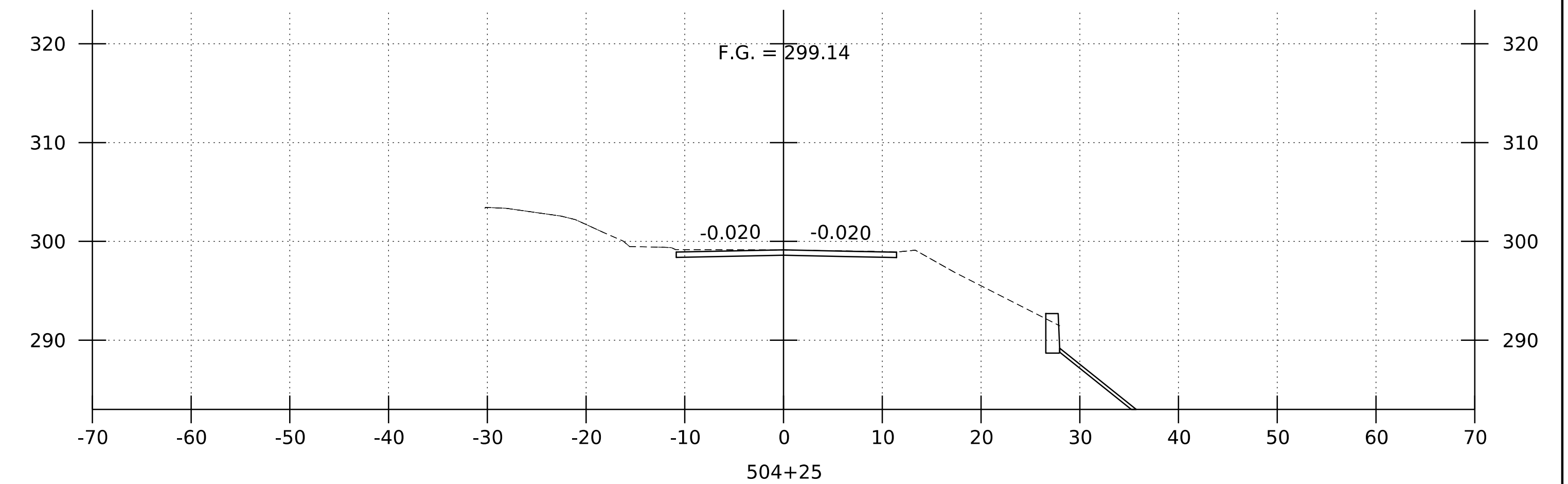
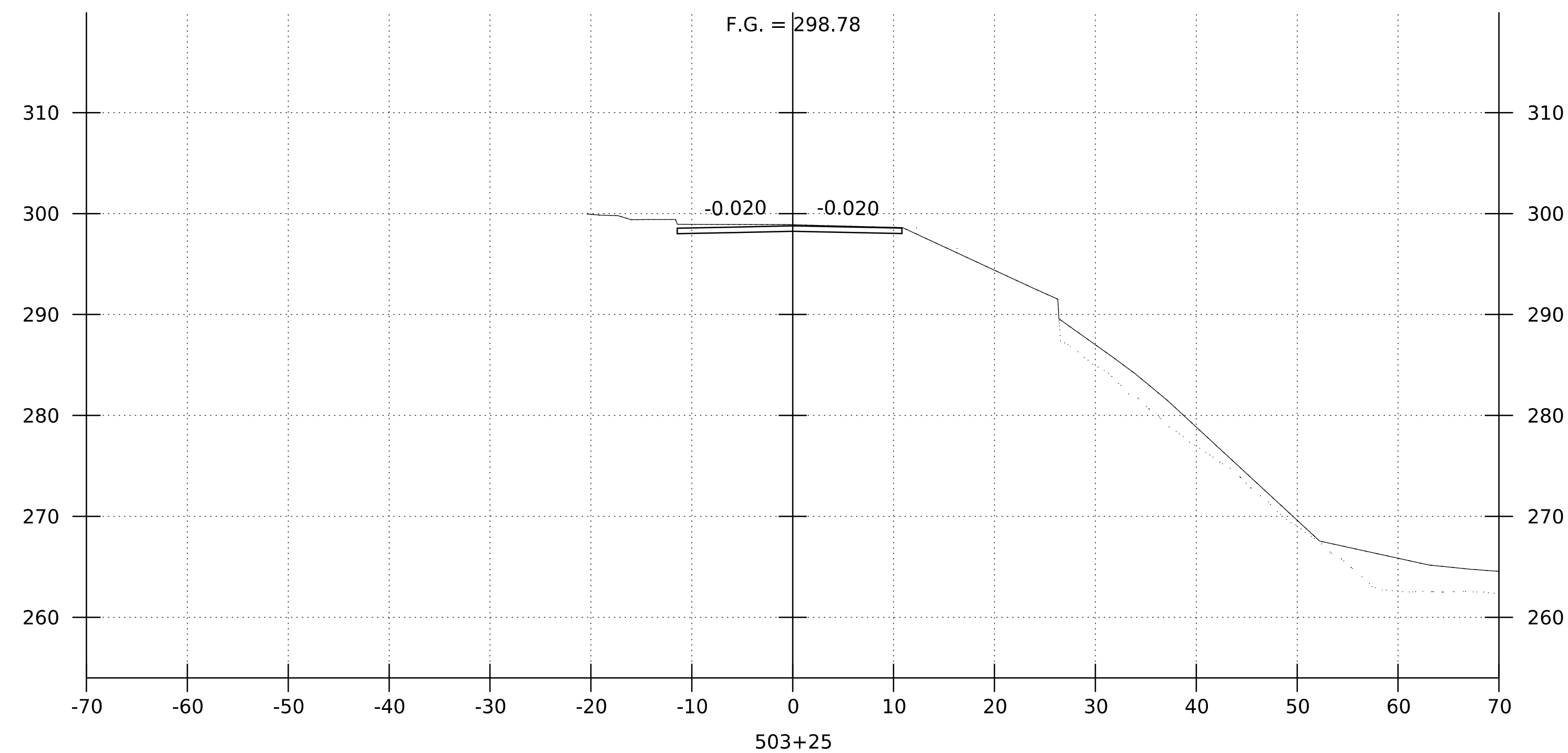
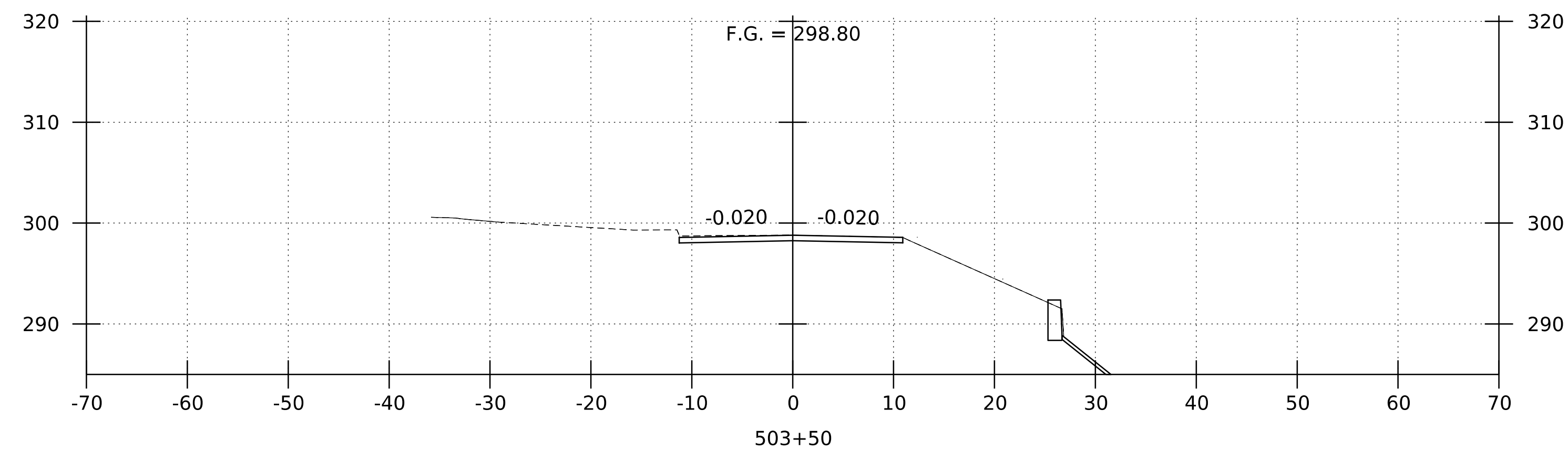
CANAL STREET CROSS SECTIONS

STA. 502+25 - 503+00

SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CANAL STREET CROSS SECTIONS (3 OF 7)	
SHEET 32 OF 43	



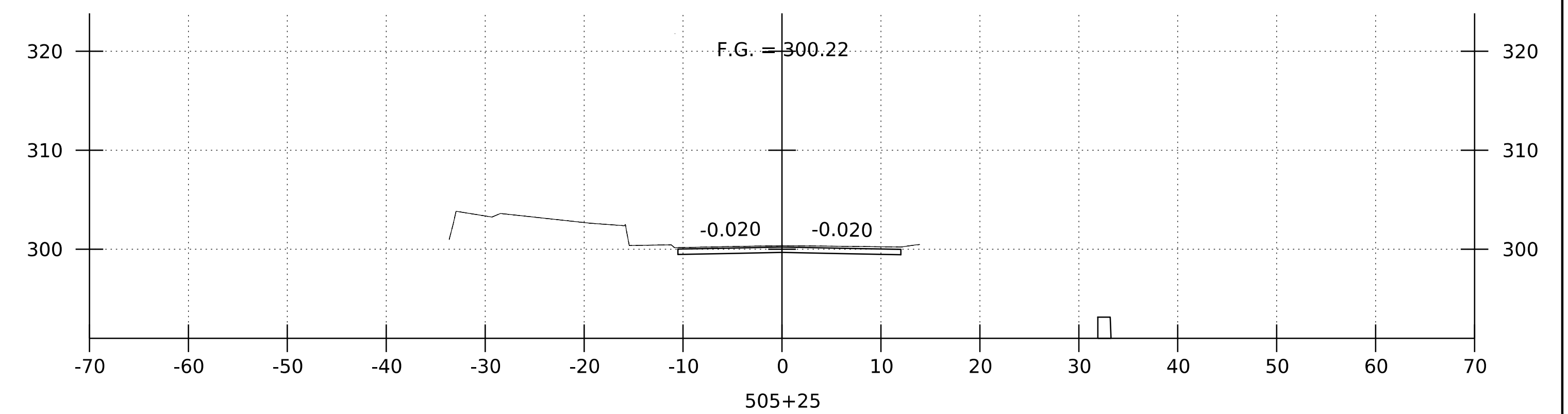
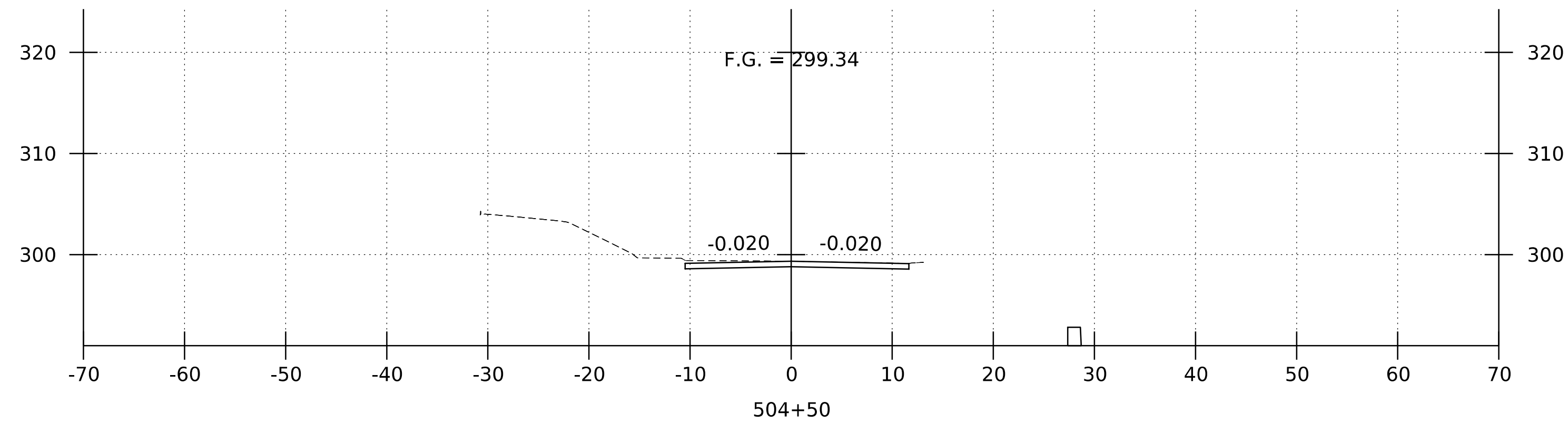
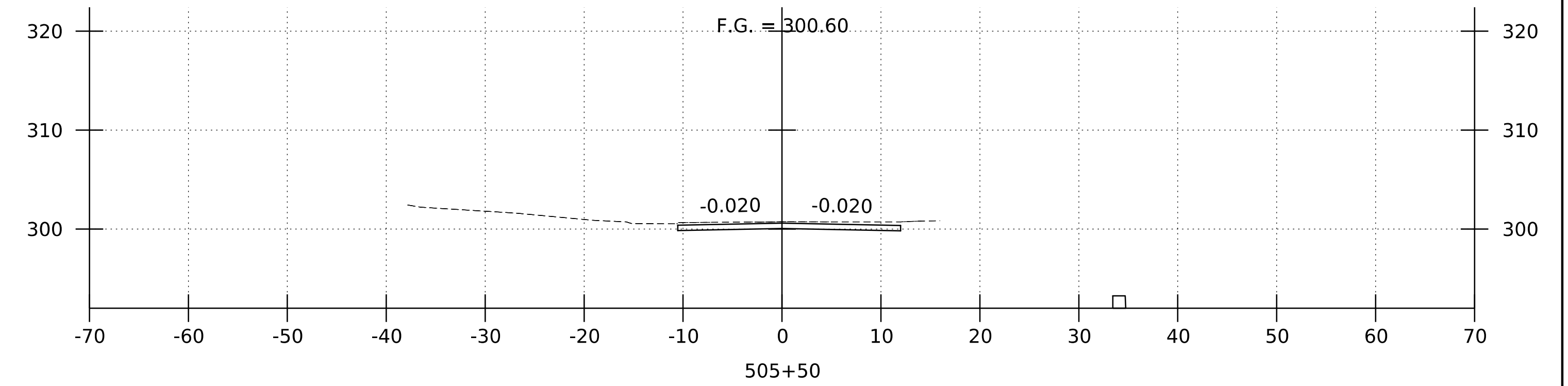
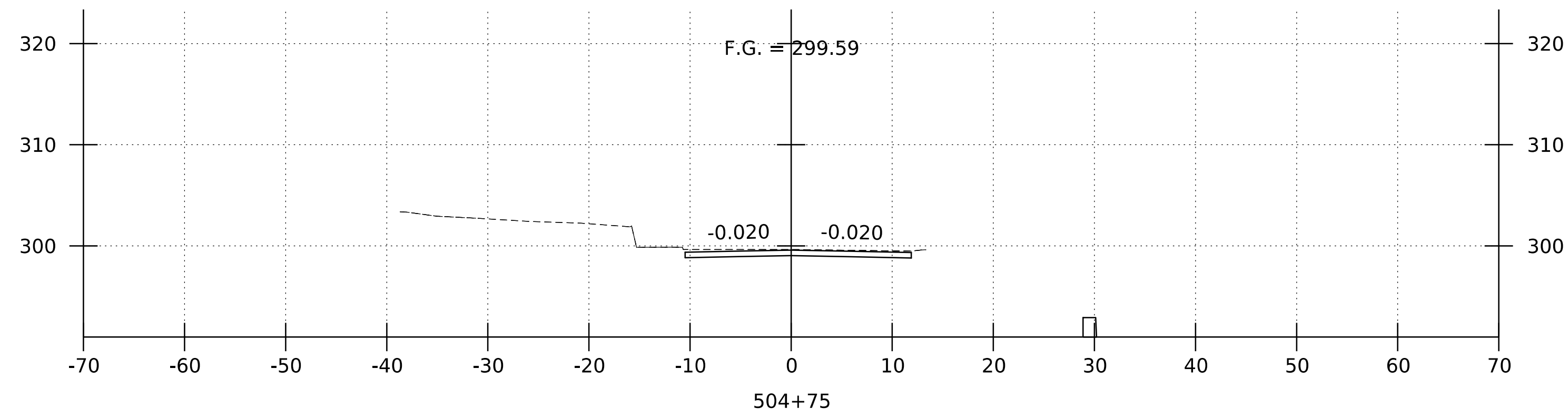
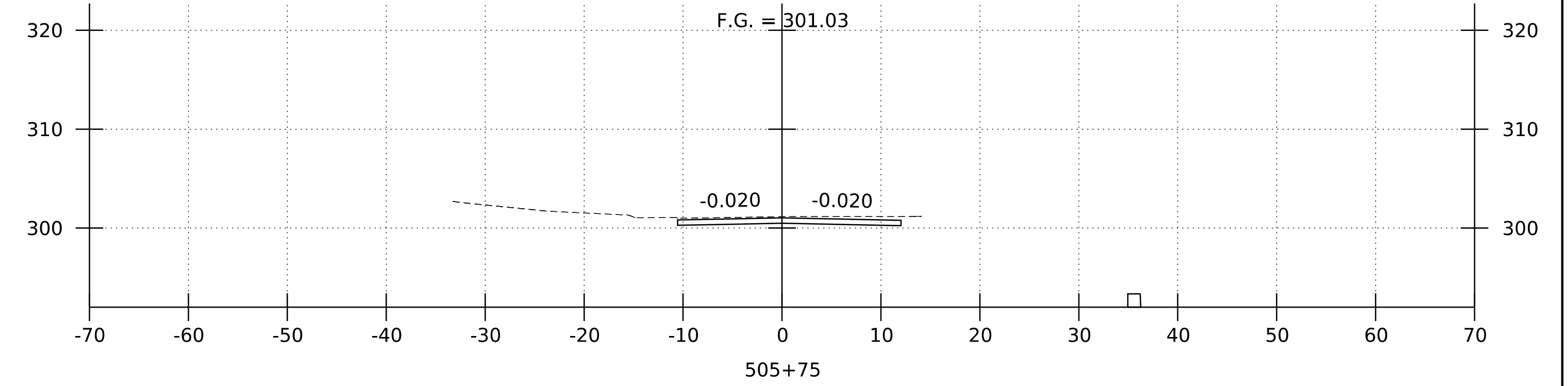
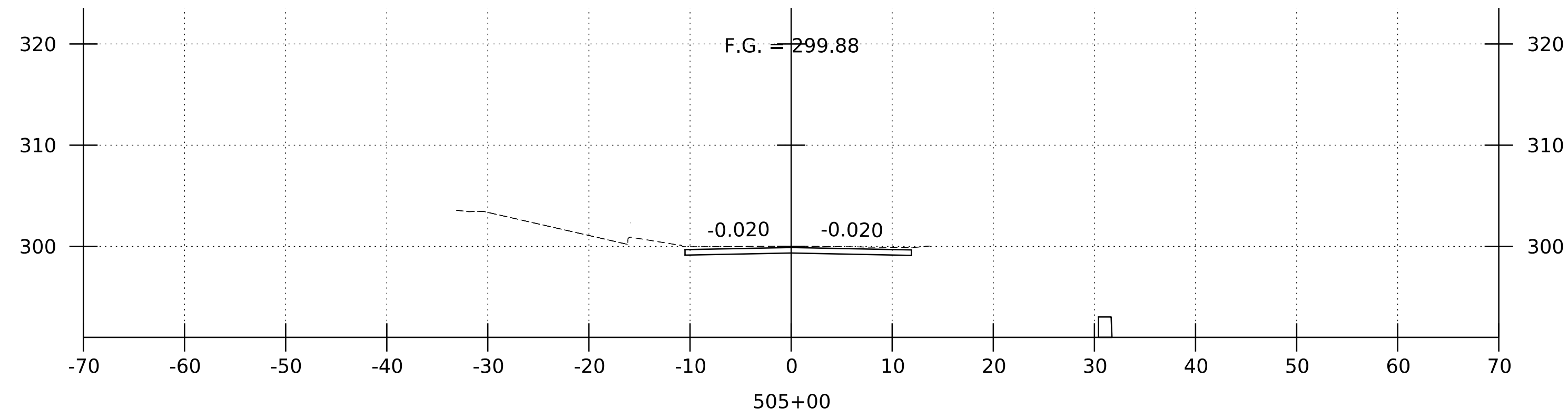
### CANAL STREET CROSS SECTIONS

STA. 503+25 - 504+25

SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBSE	CHECKED BY: K.C. BARRY
CANAL STREET CROSS SECTIONS (4 OF 7)	SHEET 33 OF 43



### CANAL STREET CROSS SECTIONS

STA. 504+50 - 505+75

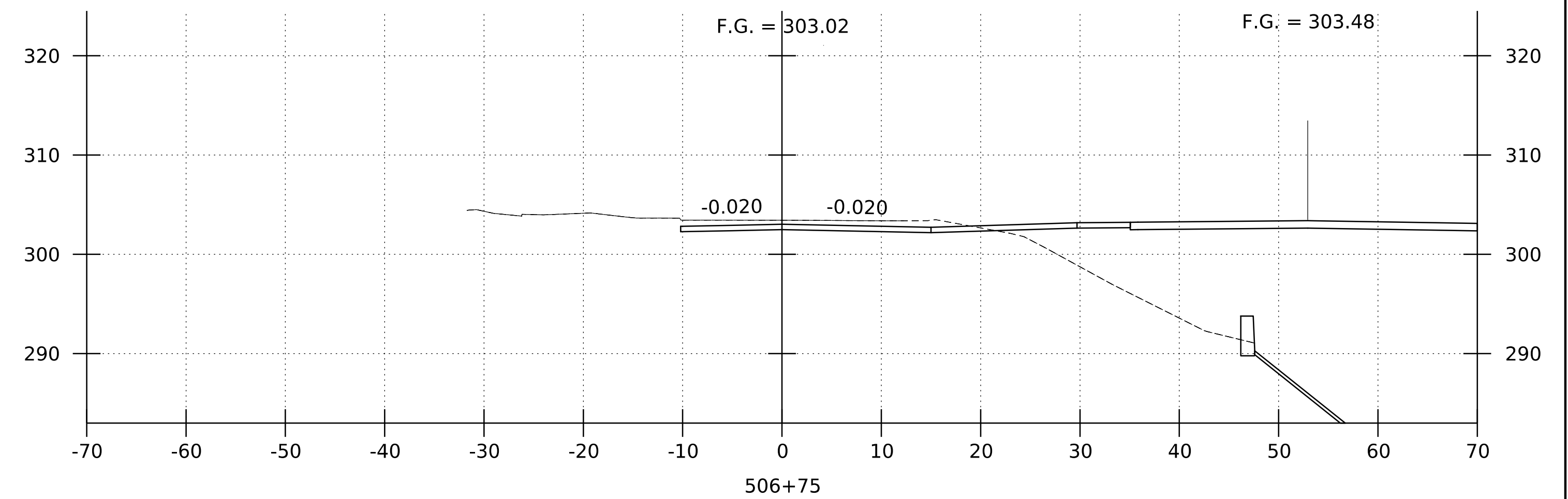
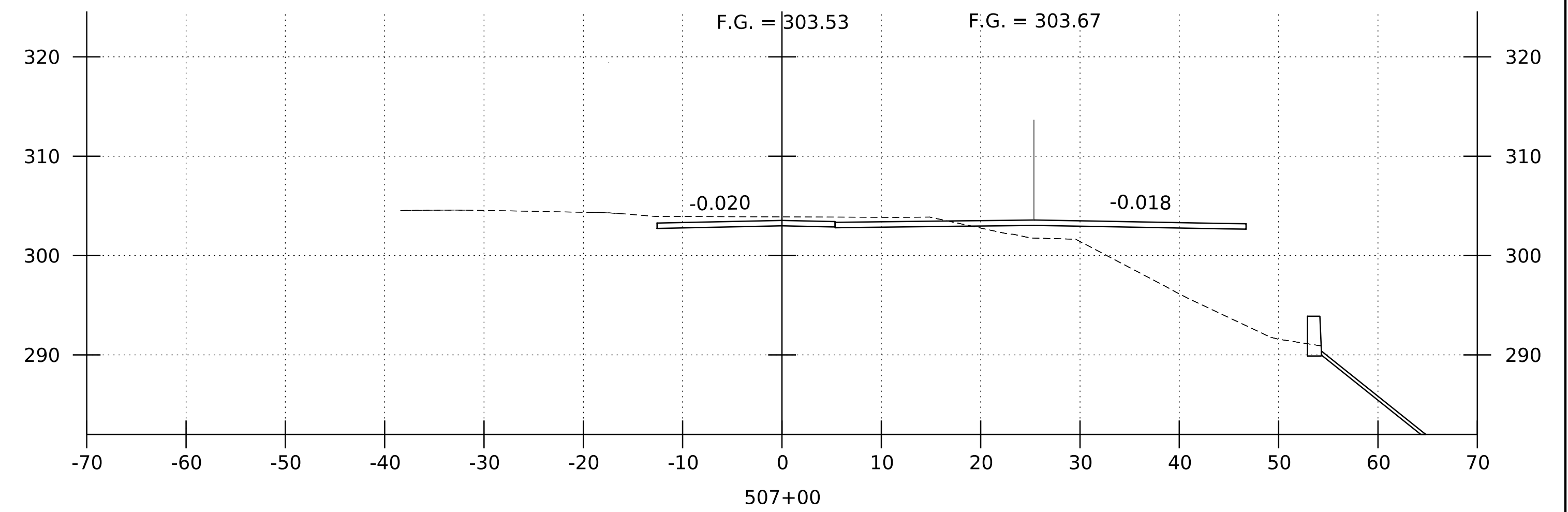
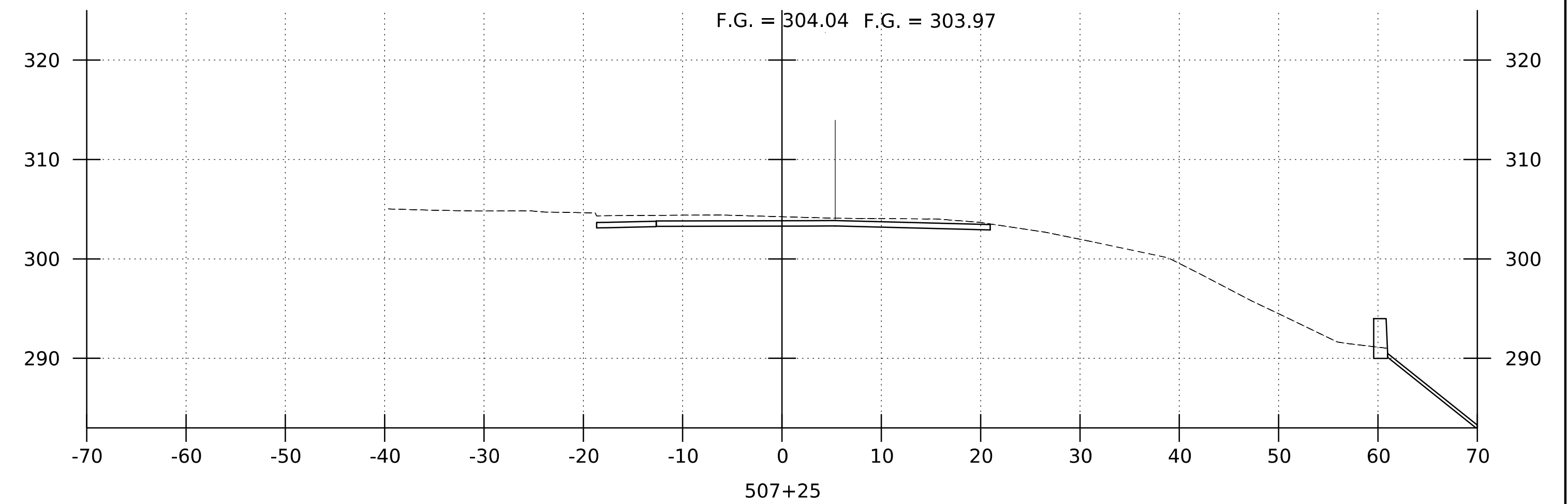
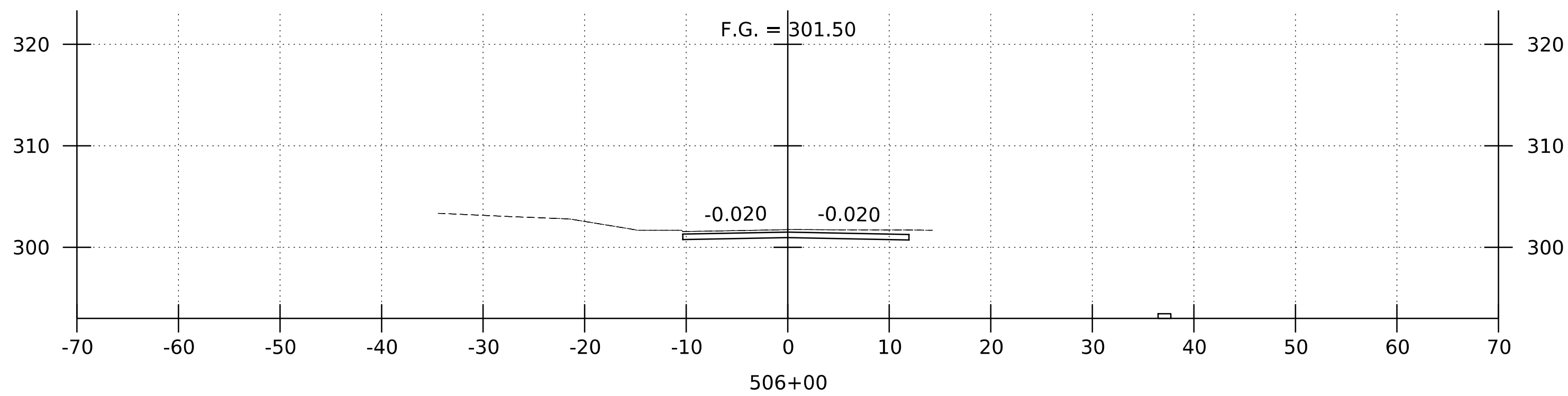
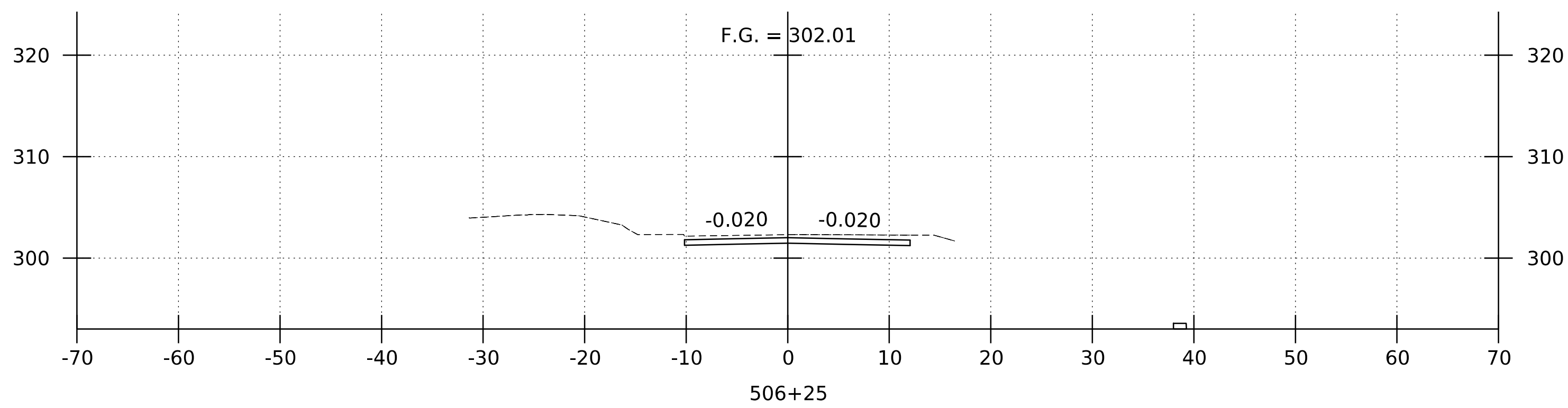
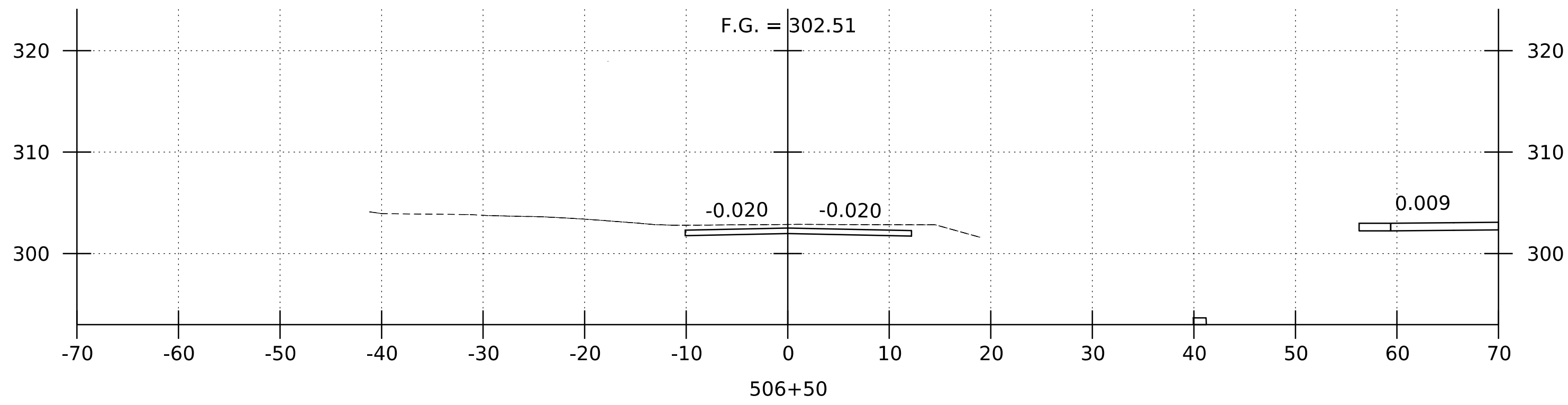
SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)  
PROJECT NUMBER: BO 1442(4I)

FILE NAME: z16j181xs_ord.dgn  
PROJECT LEADER: S.E. BURBANK  
DESIGNED BY: R.J. FORBES  
CANAL STREET CROSS SECTIONS (5 OF 7)

PLOT DATE: 11/23/2021  
DRAWN BY: R.J. FORBES  
CHECKED BY: K.C. BARRY  
SHEET 34 OF 43



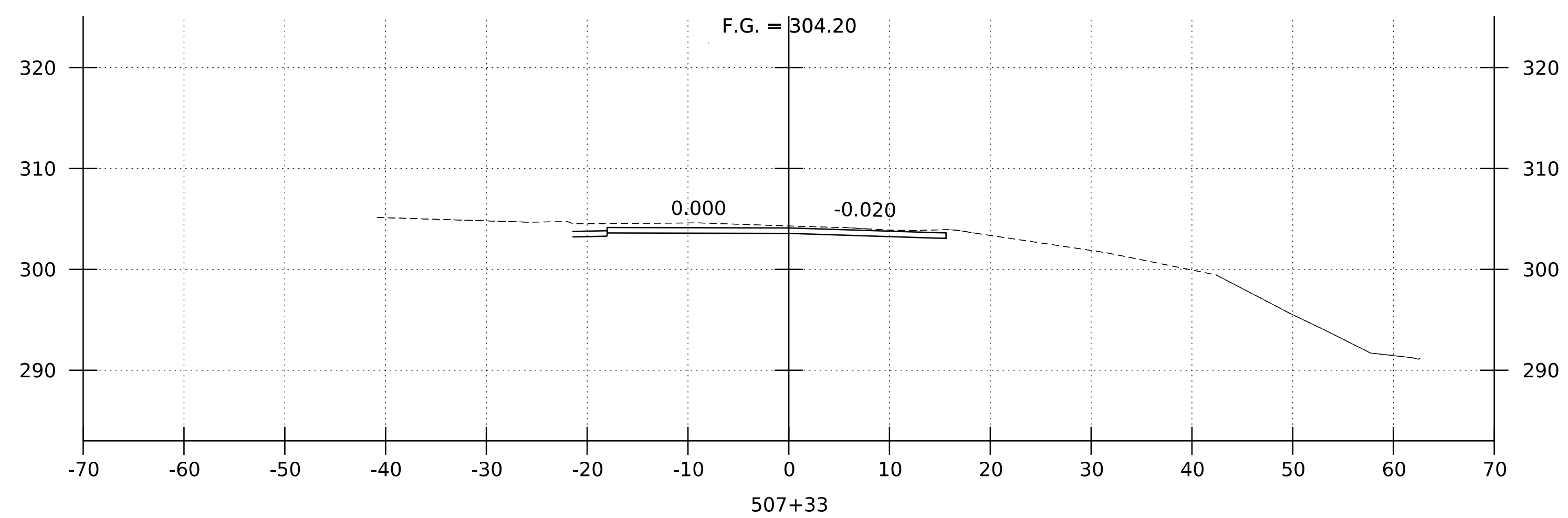
### CANAL STREET CROSS SECTIONS

STA. 506+00 - 507+25

SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CANAL STREET CROSS SECTIONS (6 OF 7)	SHEET 35 OF 43

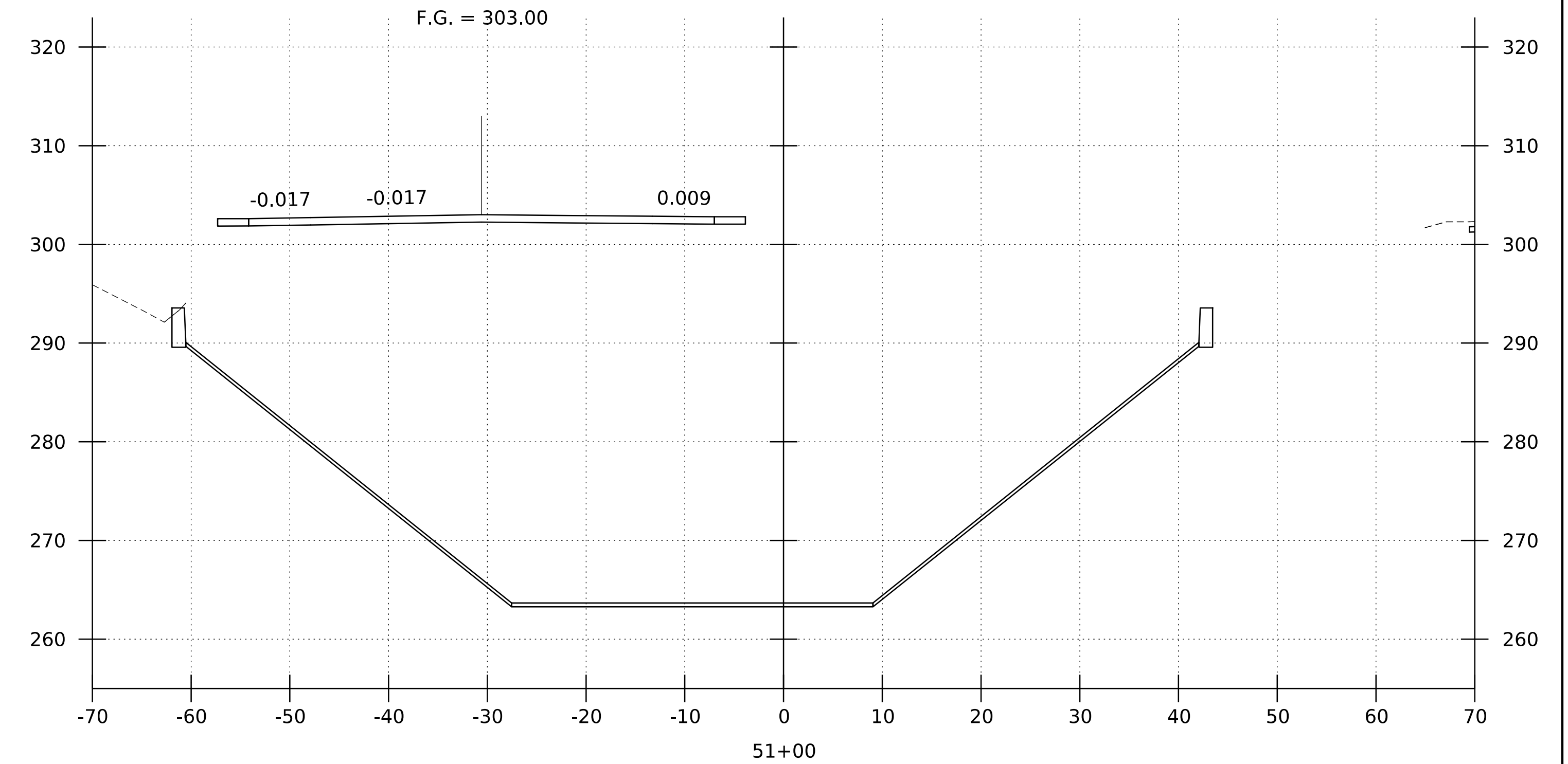
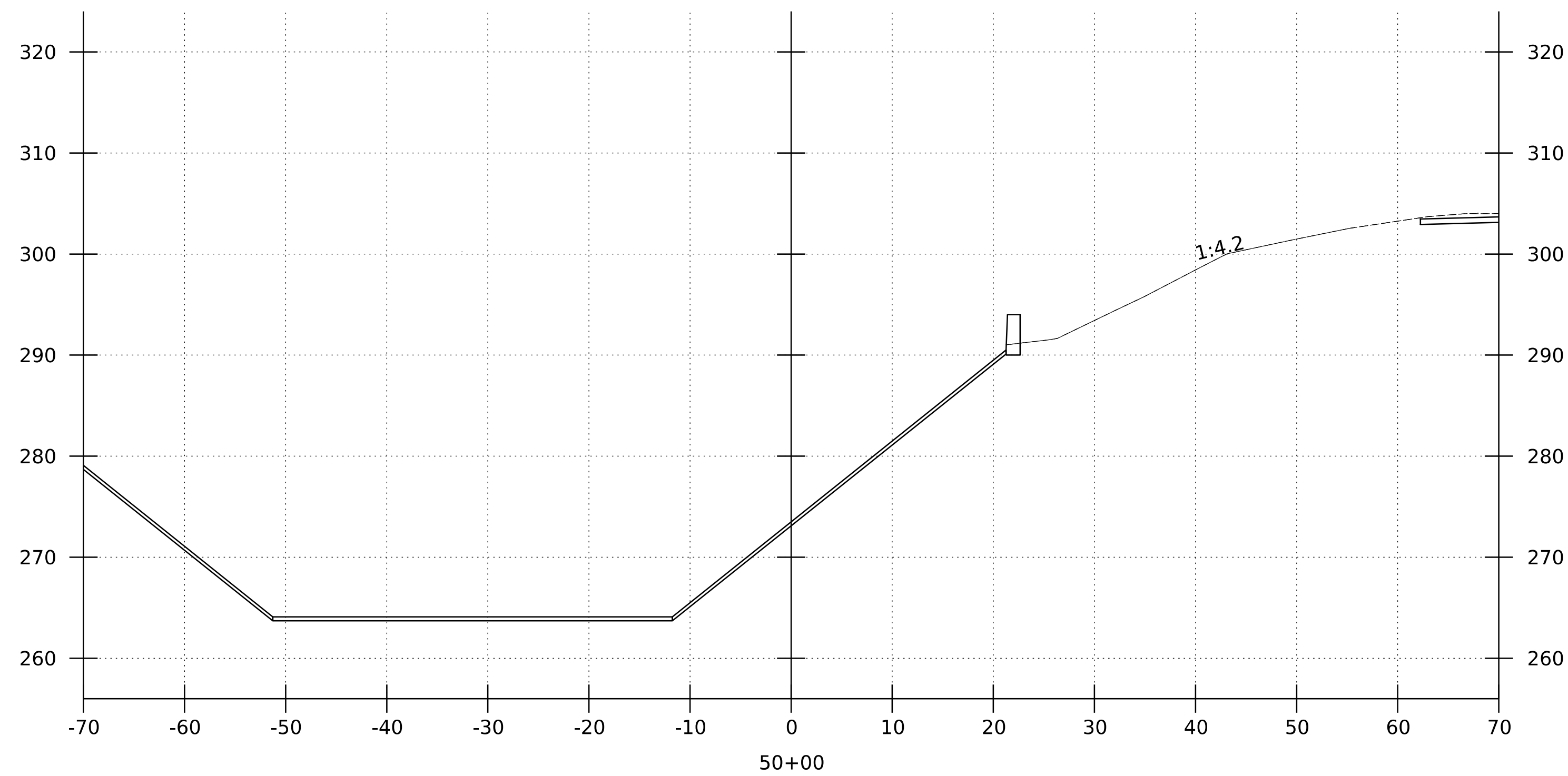
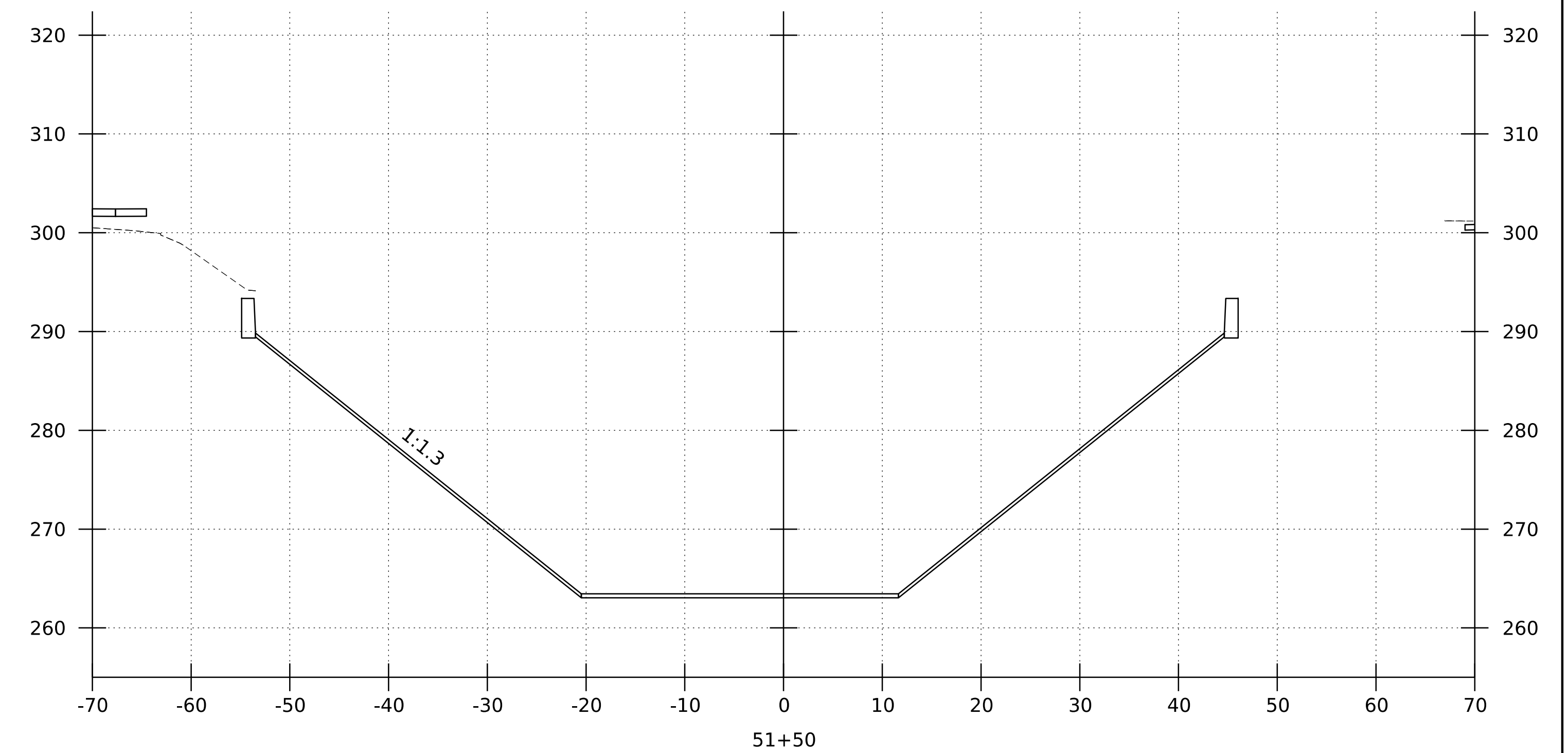
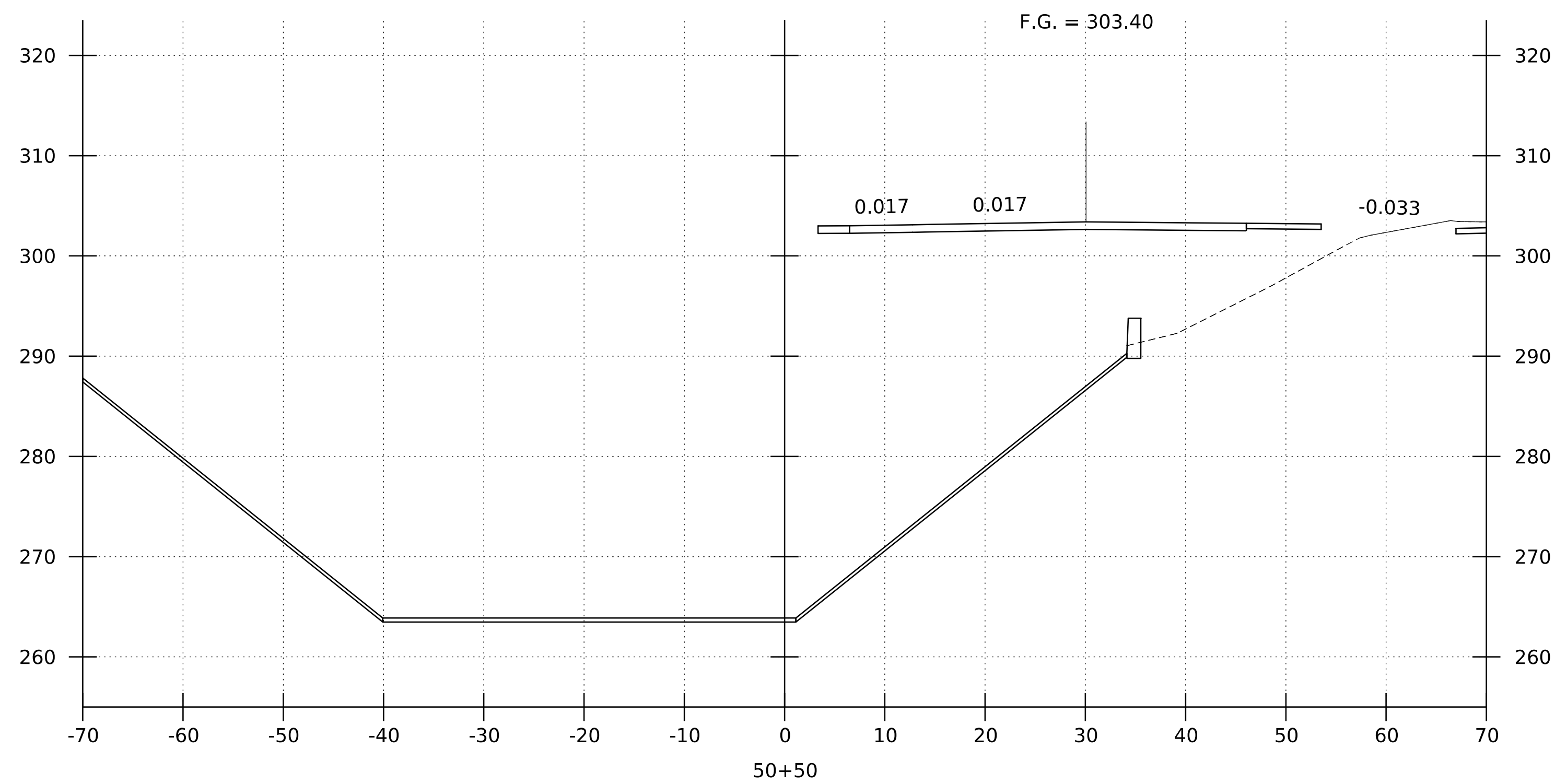


### CANAL STREET CROSS SECTIONS

STA. 507+33  
SCALE: 1" = 10' - 0"



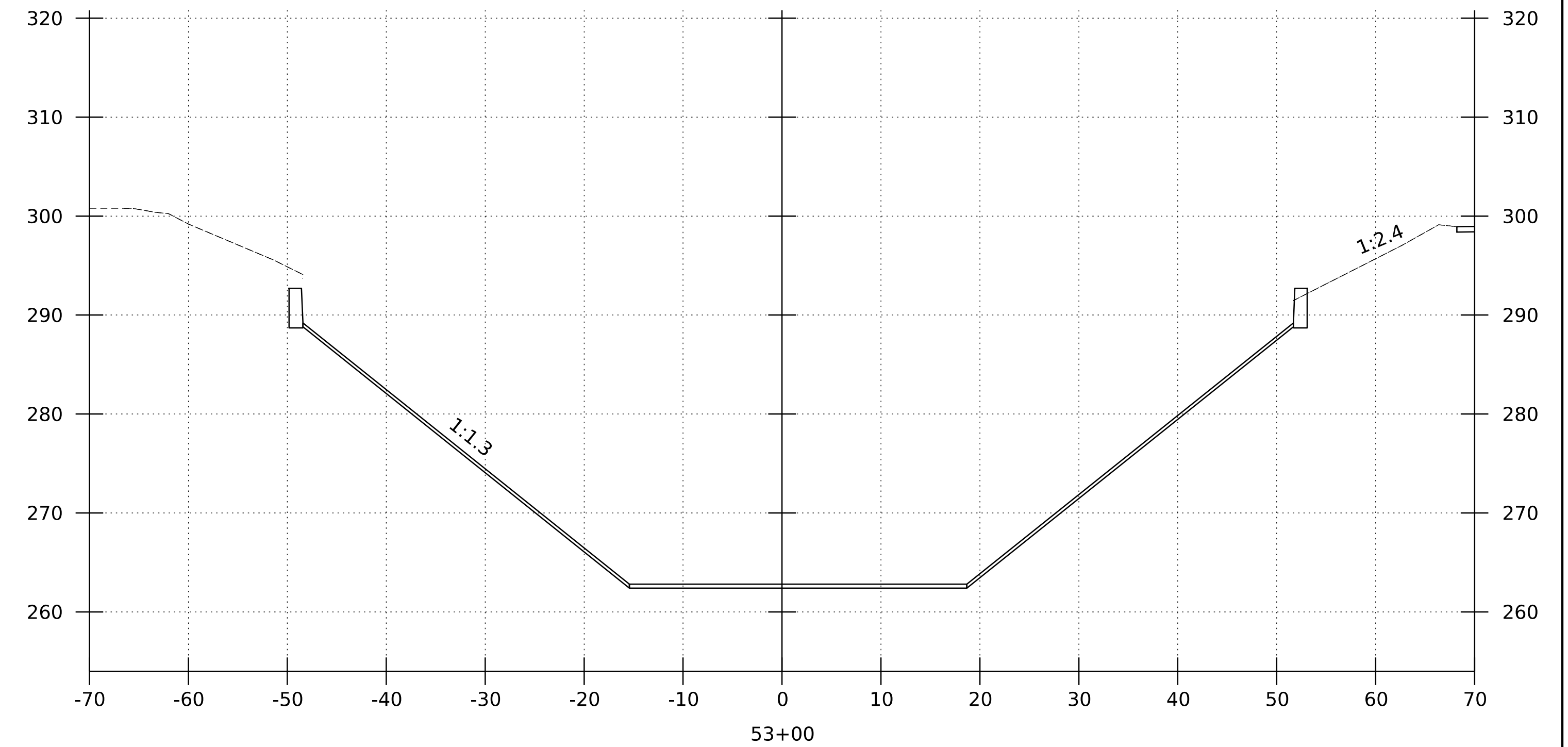
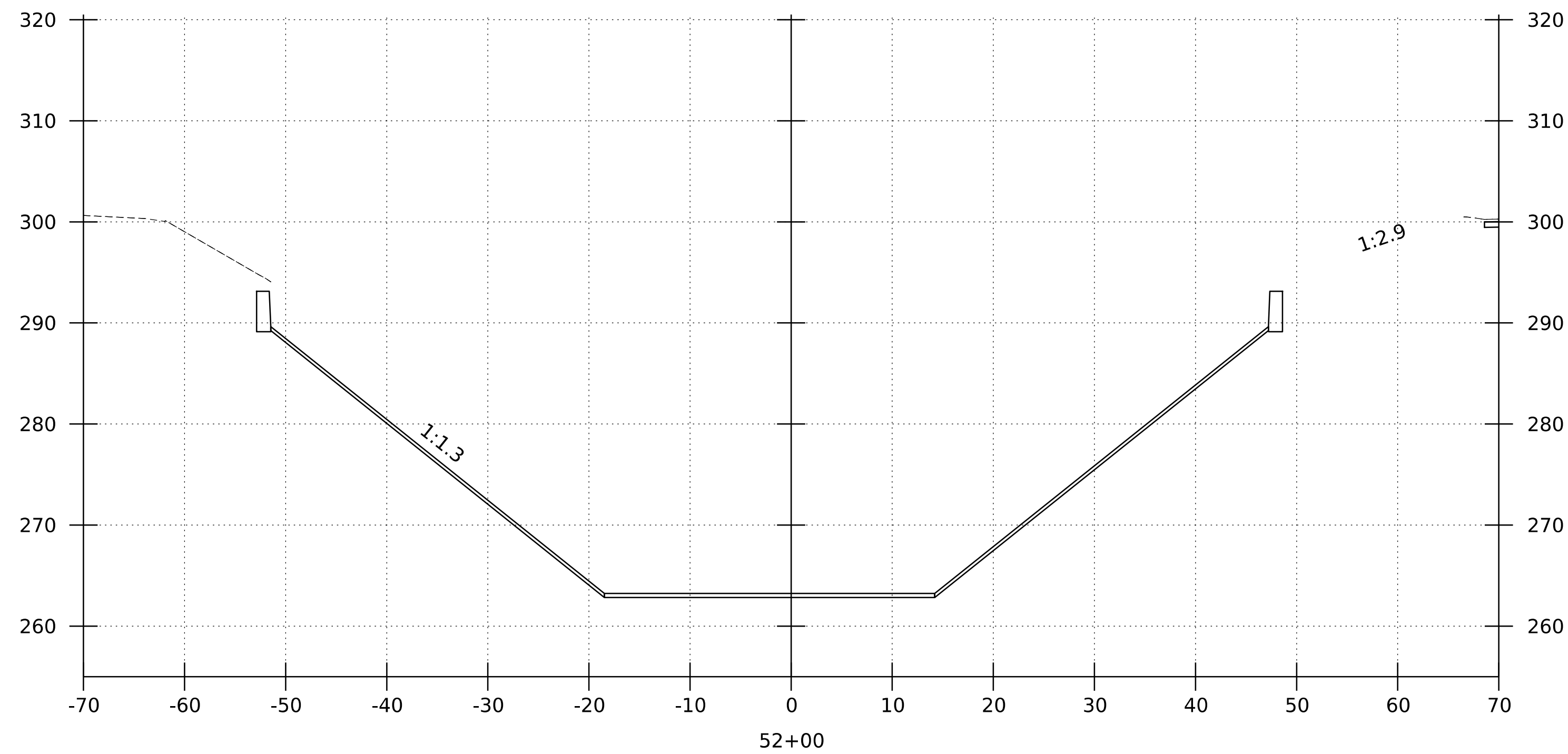
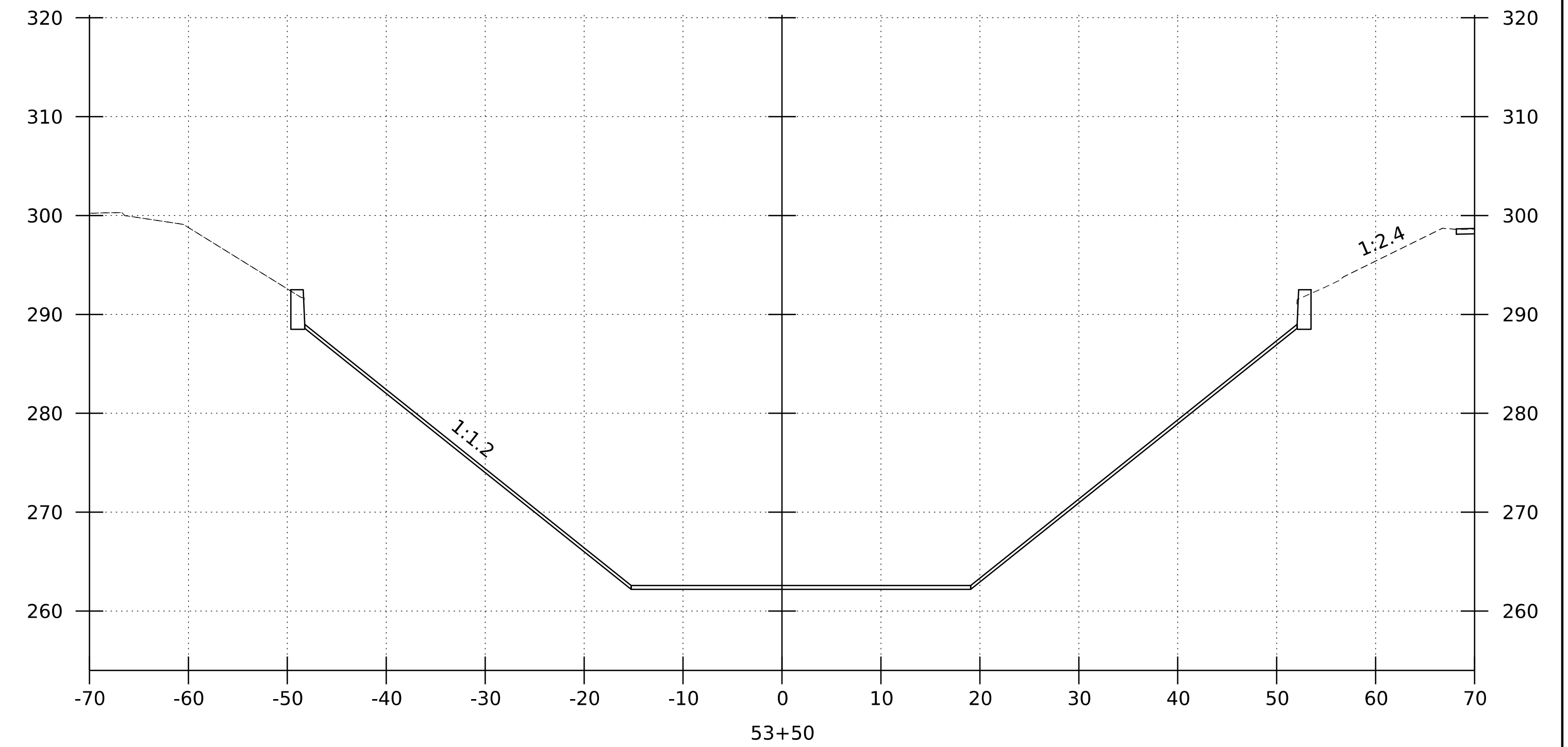
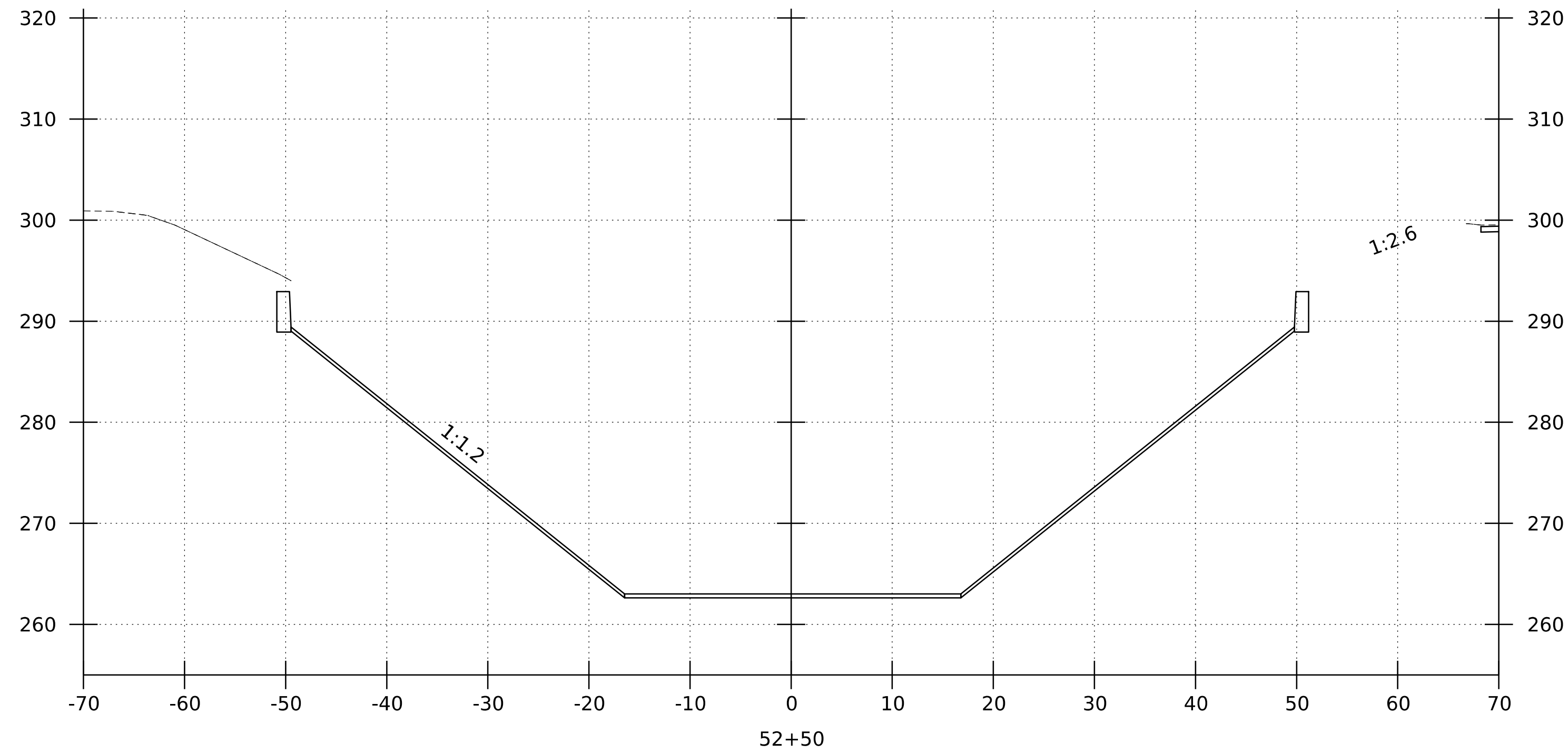
PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CANAL STREET CROSS SECTIONS (7 OF 7)	SHEET 36 OF 43



CANAL CROSS SECTIONS  
STA. 50+00 - 51+50  
SCALE: 1" = 10' - 0"



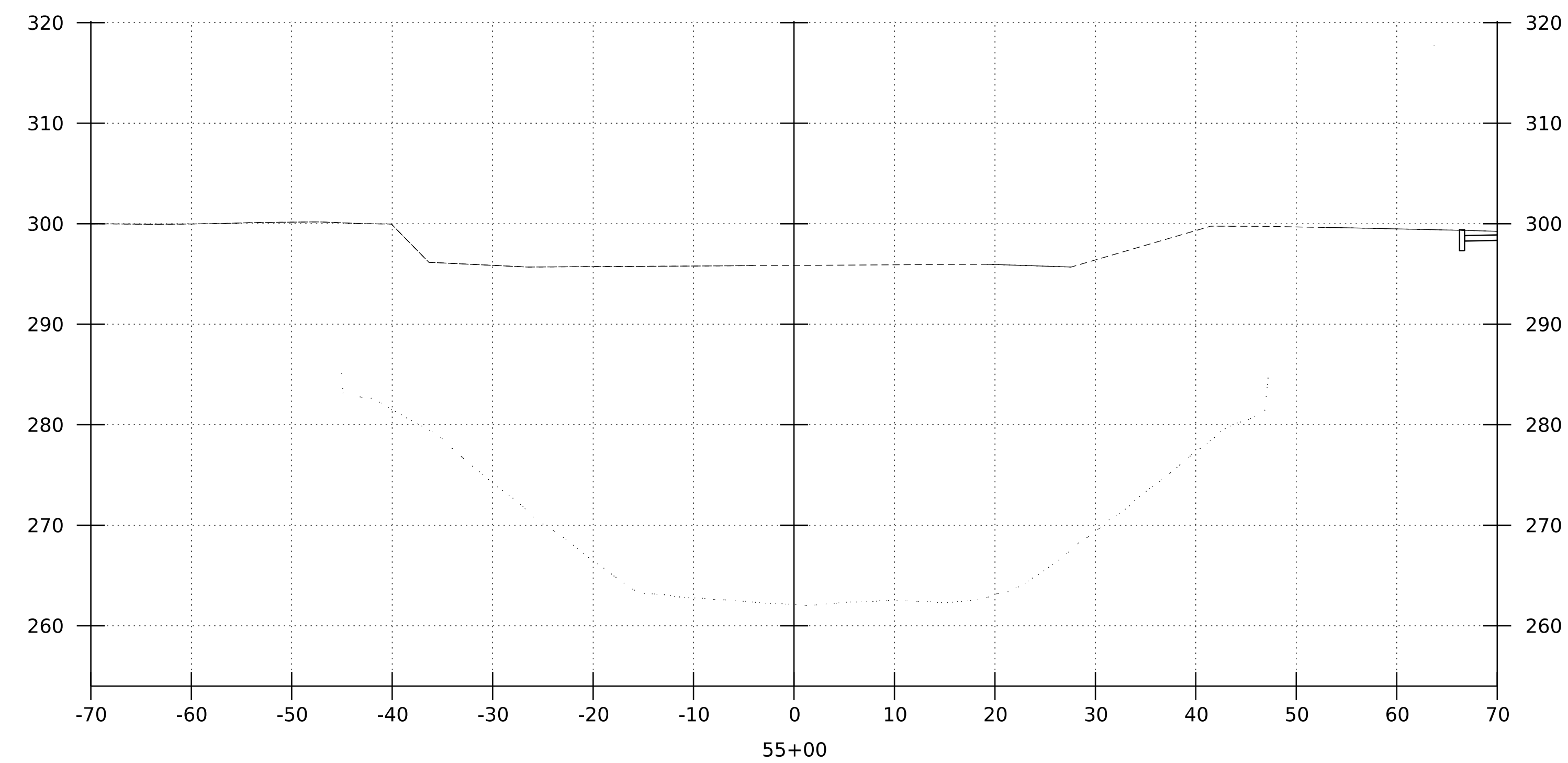
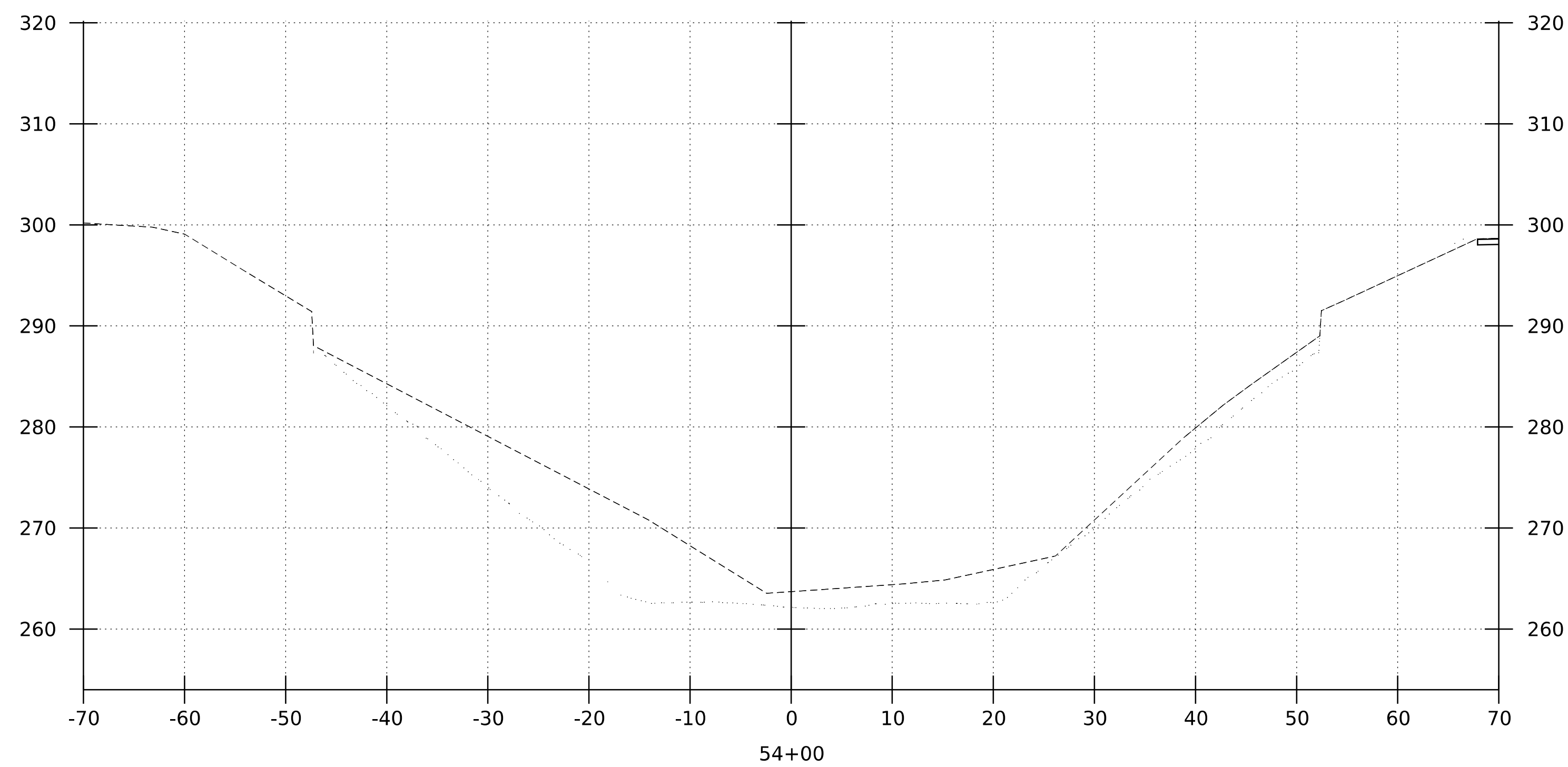
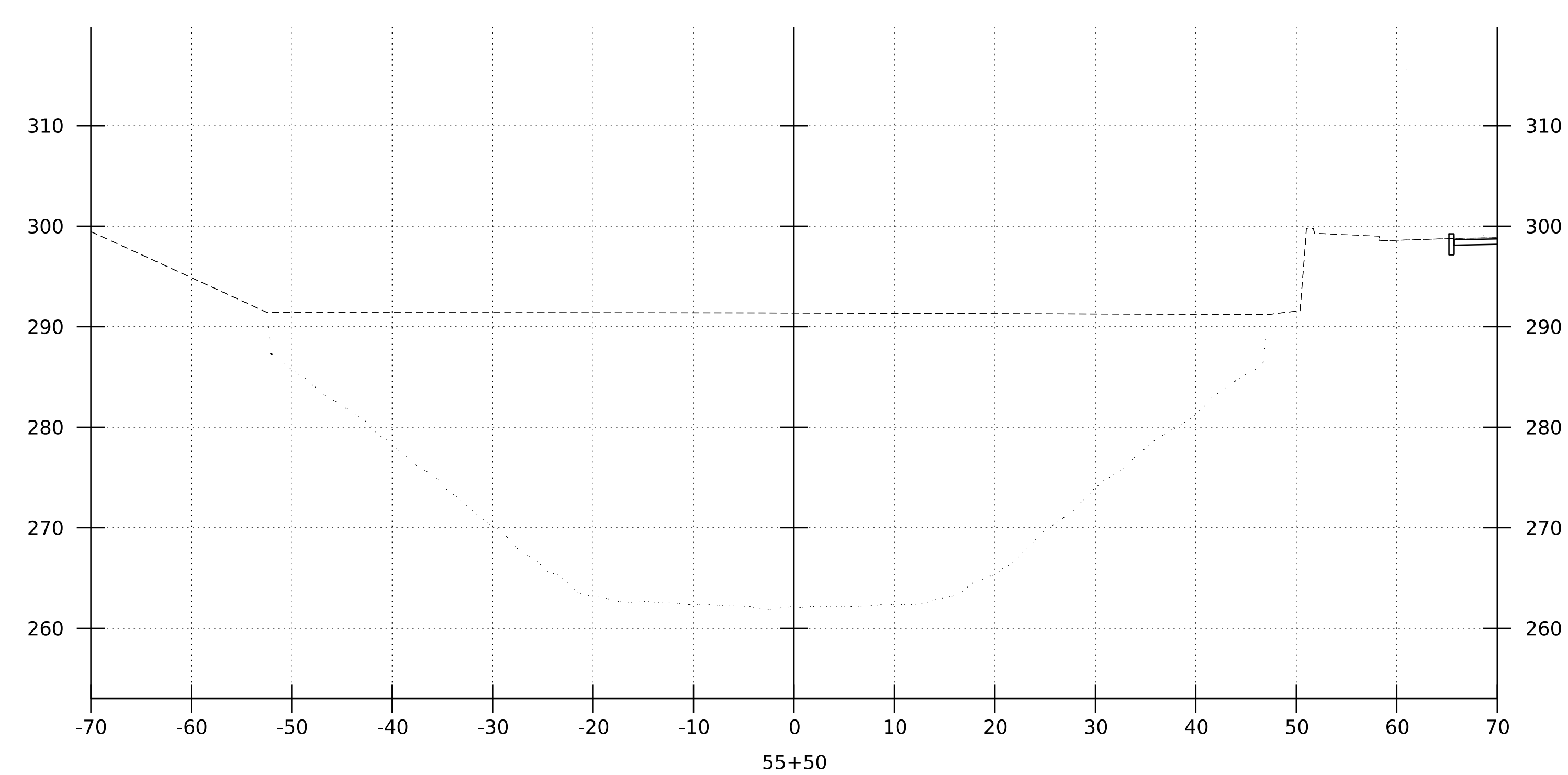
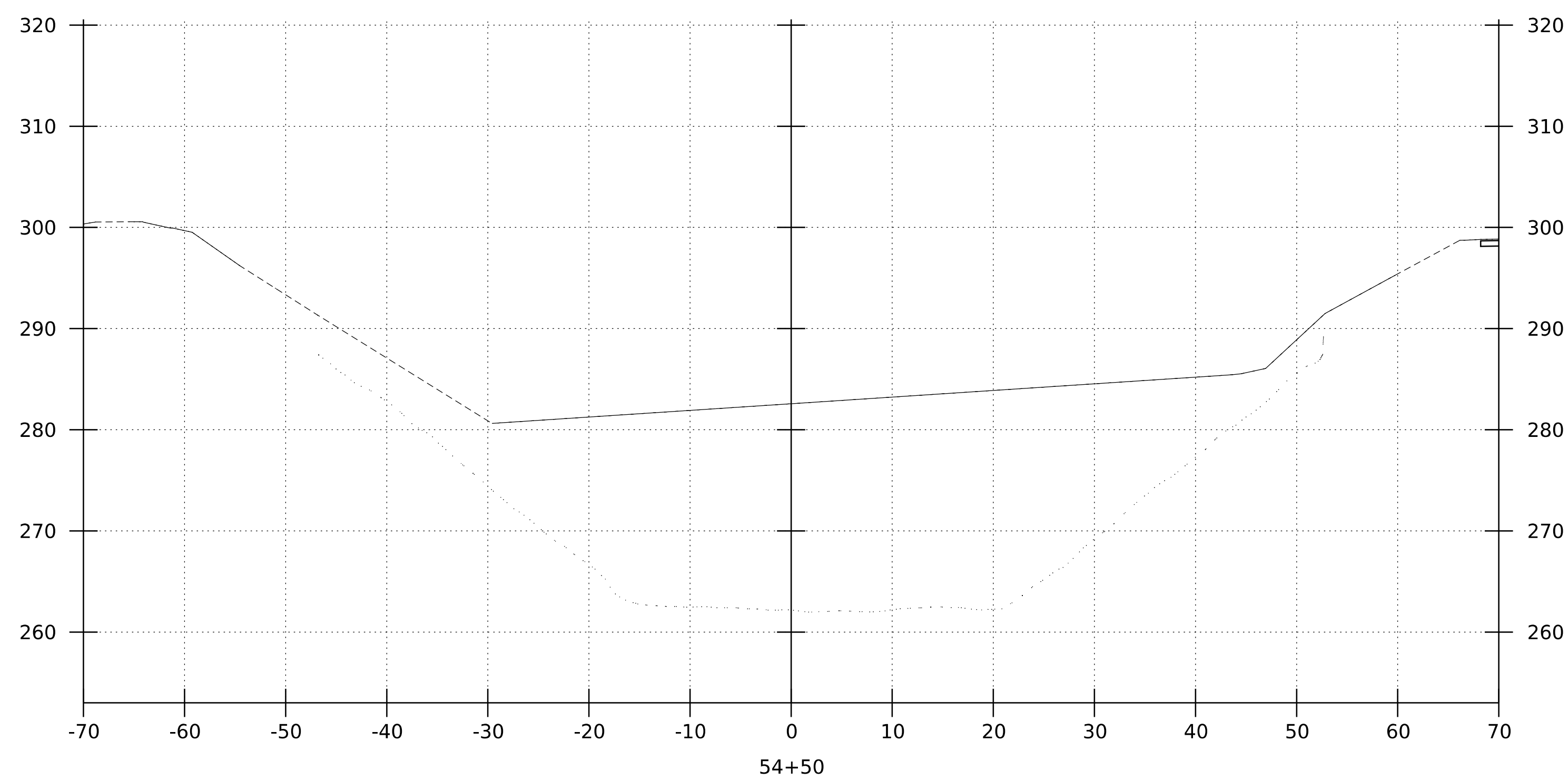
PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)
PROJECT NUMBER:	BO 1442(4I)
FILE NAME:	z16j181xs_ord.dgn
PROJECT LEADER:	S.E. BURBANK
DESIGNED BY:	R.J. FORBES
CHANNEL CROSS SECTIONS (1 OF 4)	
PLOT DATE:	11/23/2021
DRAWN BY:	R.J. FORBES
CHECKED BY:	K.C. BARRY
SHEET	37 OF 43



CANAL CROSS SECTIONS  
STA. 52+00 - 53+50  
SCALE: 1" = 10' - 0"



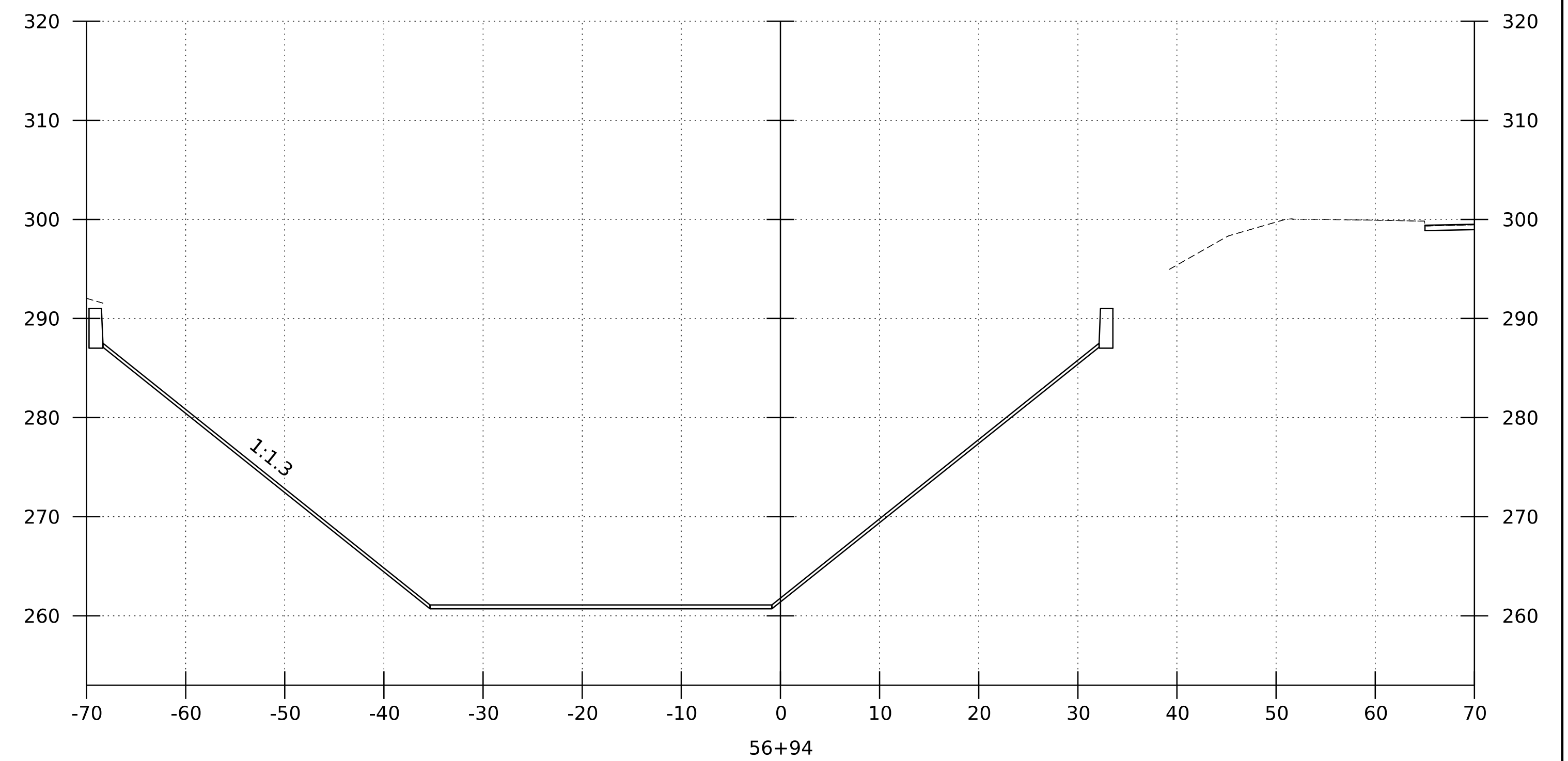
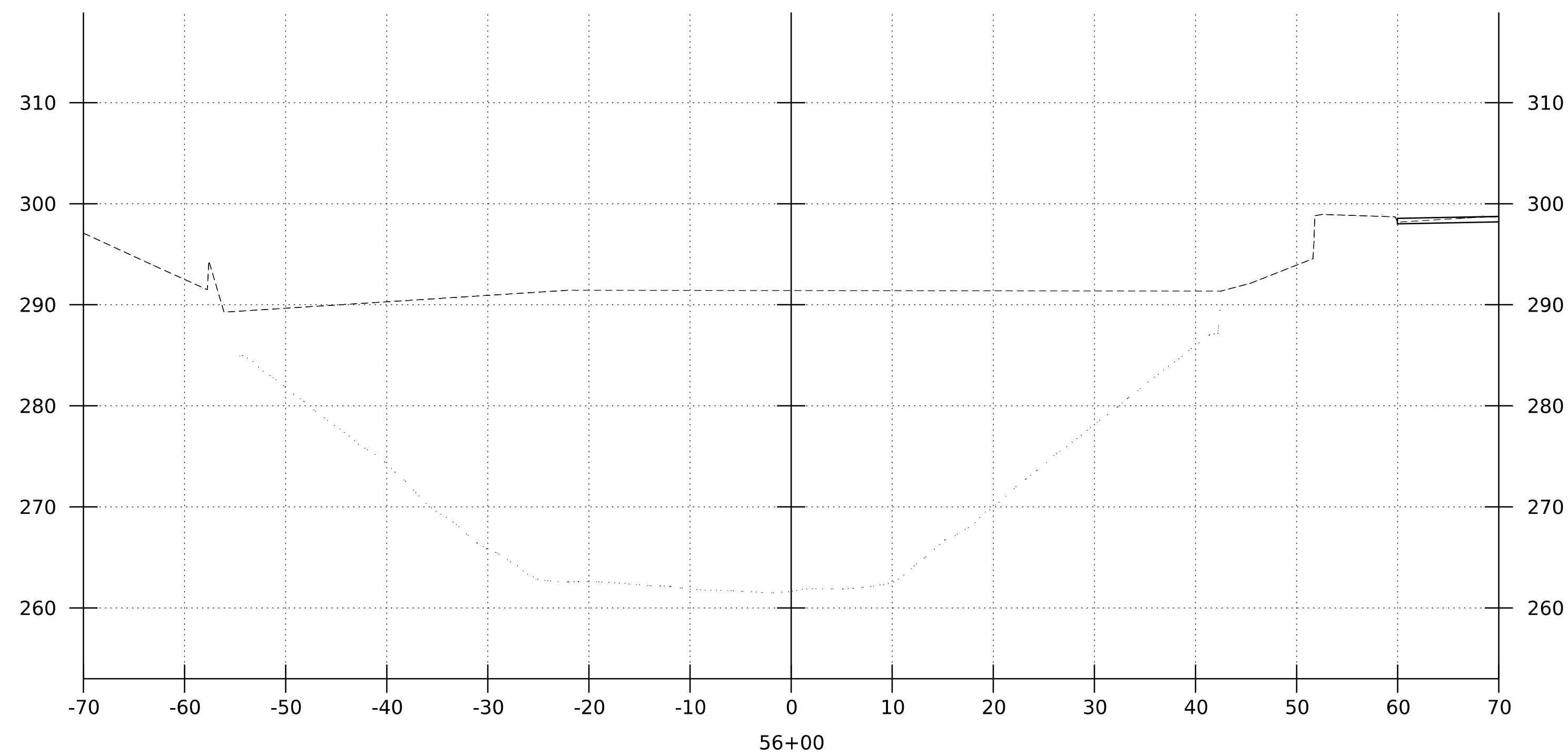
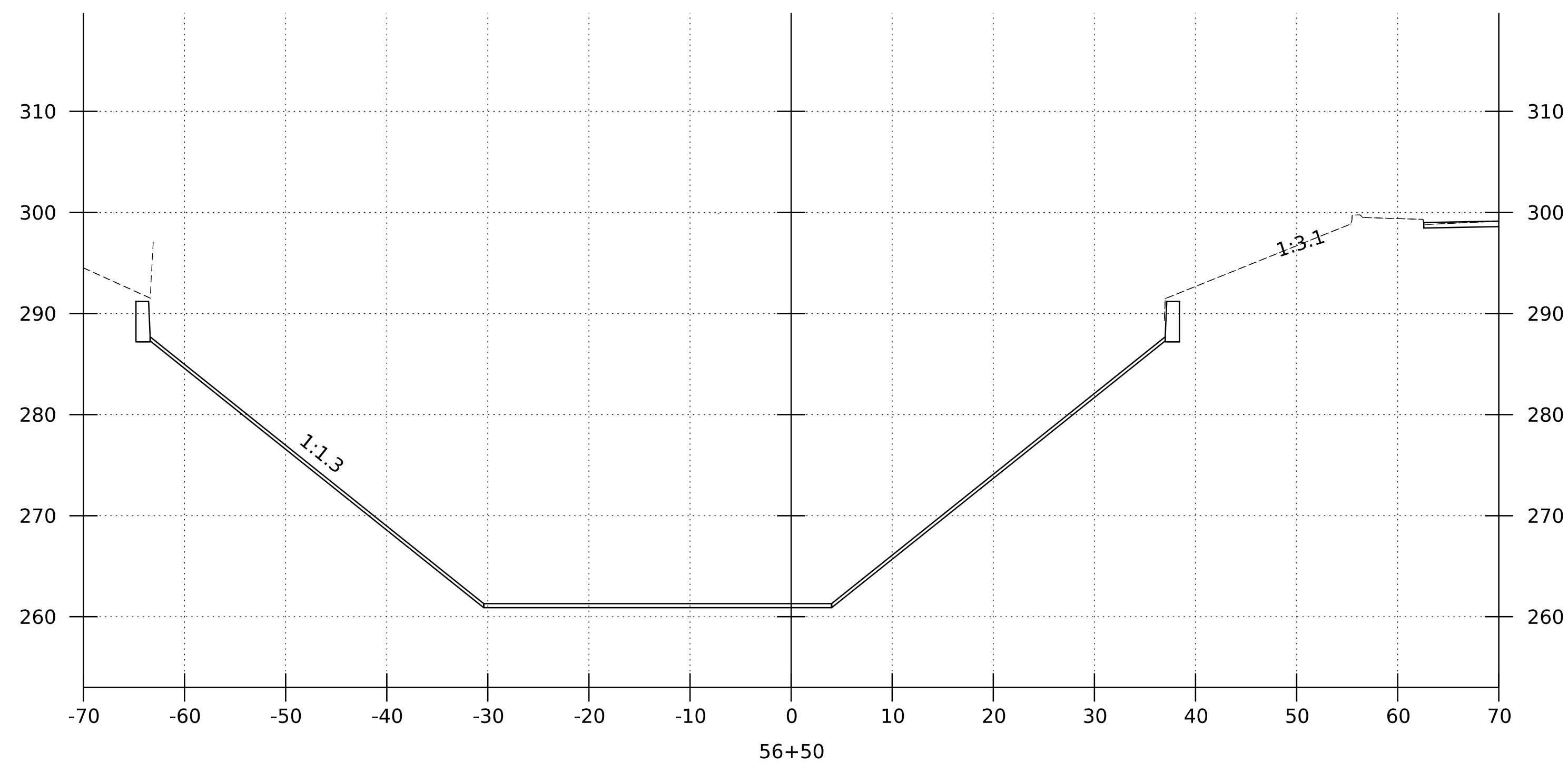
PROJECT NAME:	ROCKINGHAM (BELLOWS FALLS)	PLOT DATE:	11/23/2021
PROJECT NUMBER:	BO 1442(4I)	DRAWN BY:	R.J. FORBES
FILE NAME:	z16j181xs_ord.dgn	CHECKED BY:	K.C. BARRY
PROJECT LEADER:	S.E. BURBANK	SHEET	38 OF 43
DESIGNED BY:	R.J. FORBES		
CHANNEL CROSS SECTIONS (2 OF 4)			



CANAL CROSS SECTIONS  
STA. 54+00 - 55+50  
SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CHANNEL CROSS SECTIONS (3 OF 4)	SHEET 39 OF 43



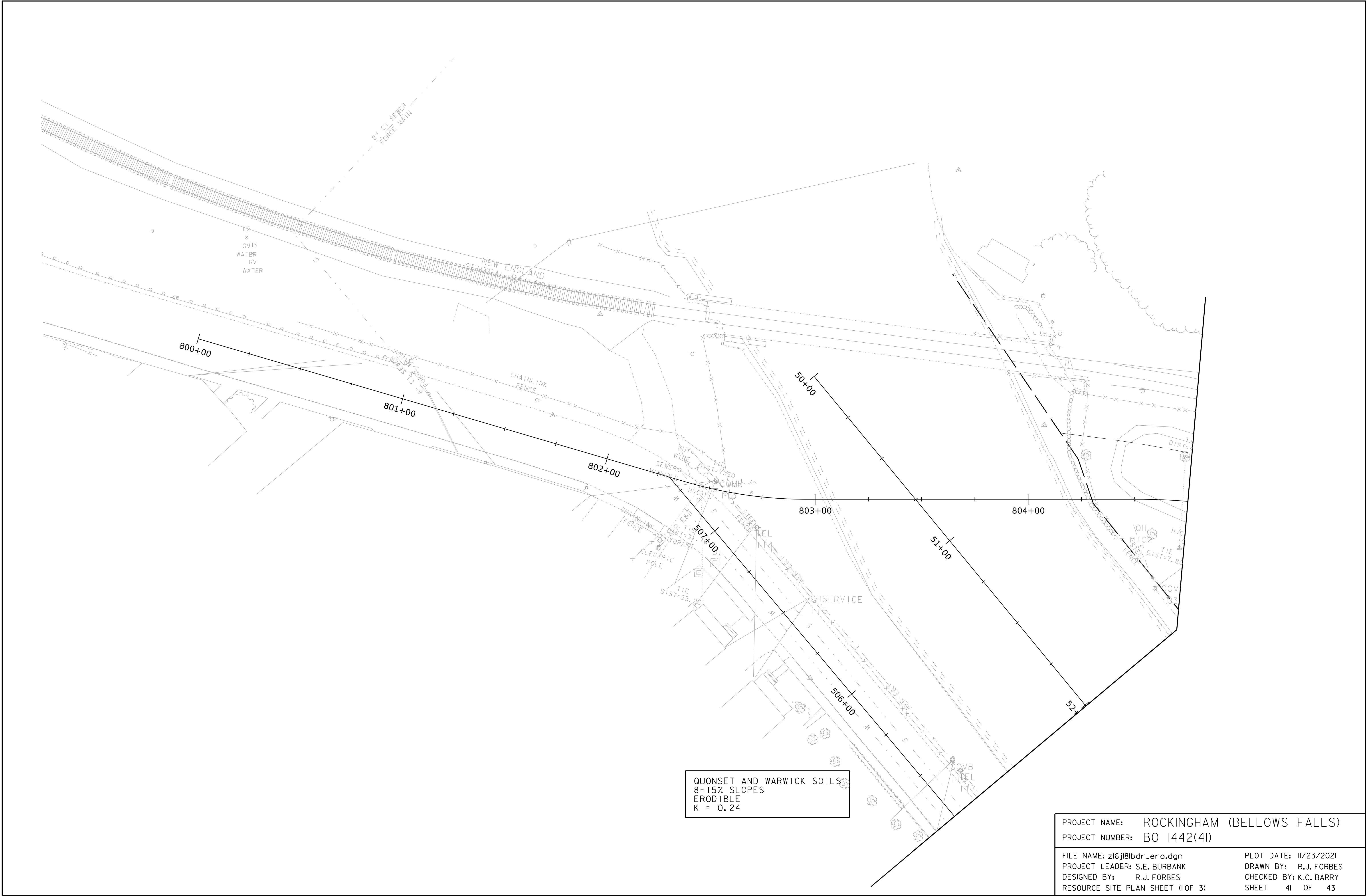
### CANAL CROSS SECTIONS

STA. 56+00 - 56+94

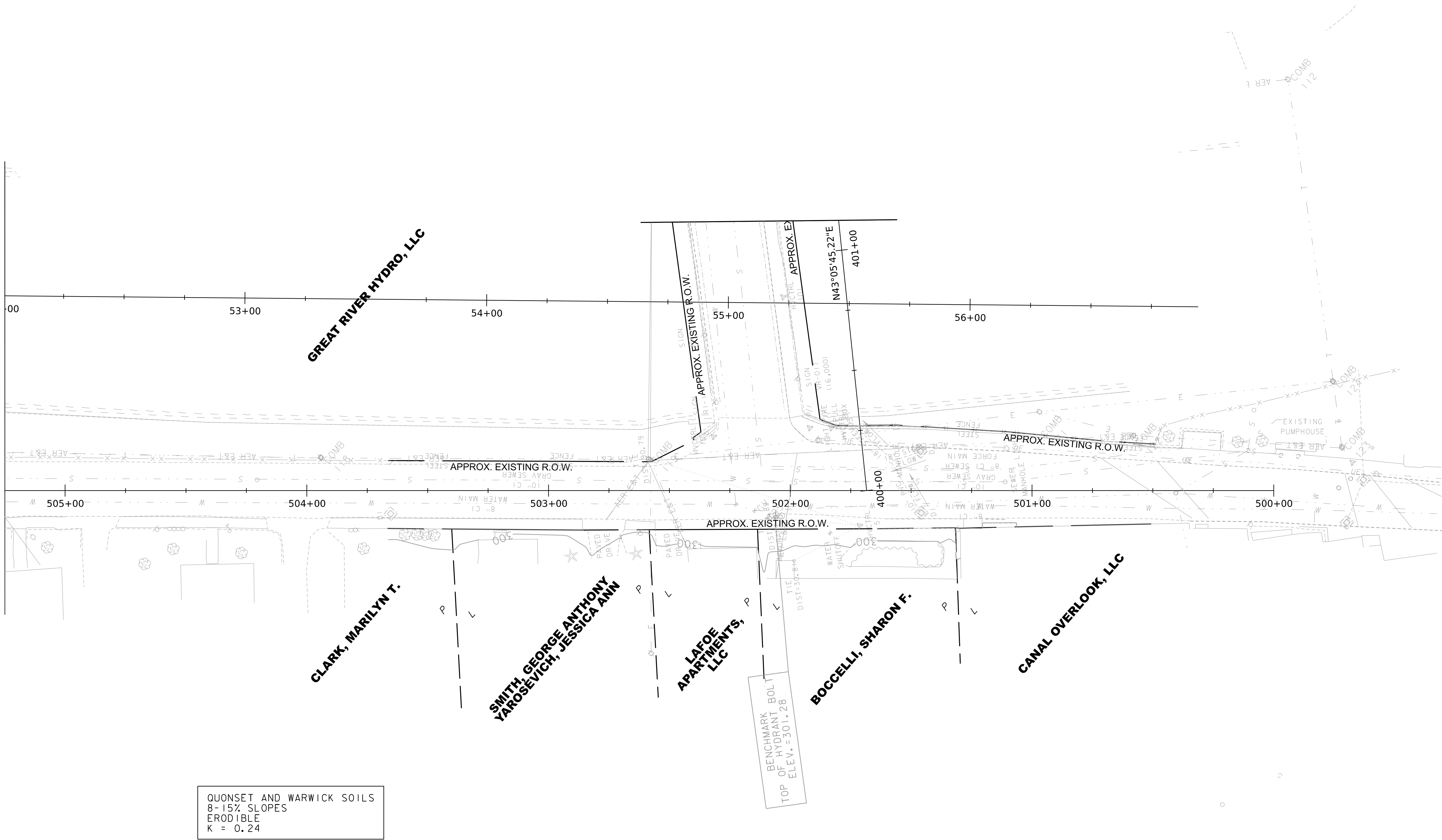
SCALE: 1" = 10' - 0"



PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181xs_ord.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
CHANNEL CROSS SECTIONS (4 OF 4)	SHEET 40 OF 43







QUONSET AND WARWICK SOILS  
8-15% SLOPES  
ERODIBLE  
K = 0.24

PROJECT NAME: ROCKINGHAM (BELLOWS FALLS)	
PROJECT NUMBER: BO 1442(4I)	
FILE NAME: z16j181bdr_ero.dgn	PLOT DATE: 11/23/2021
PROJECT LEADER: S.E. BURBANK	DRAWN BY: R.J. FORBES
DESIGNED BY: R.J. FORBES	CHECKED BY: K.C. BARRY
RESOURCE SITE PLAN SHEET (3 OF 3)	SHEET 43 OF 43