

REVIEWER NOTE:

THE BRIDGE WILL BE CLOSED DURING CONSTRUCTION AND TRAFFIC WILL BE MAINTAINED ON A TWO-WAY TEMPORARY BRIDGE DOWNSTREAM OF THE EXISTING BRIDGE.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF EDEN

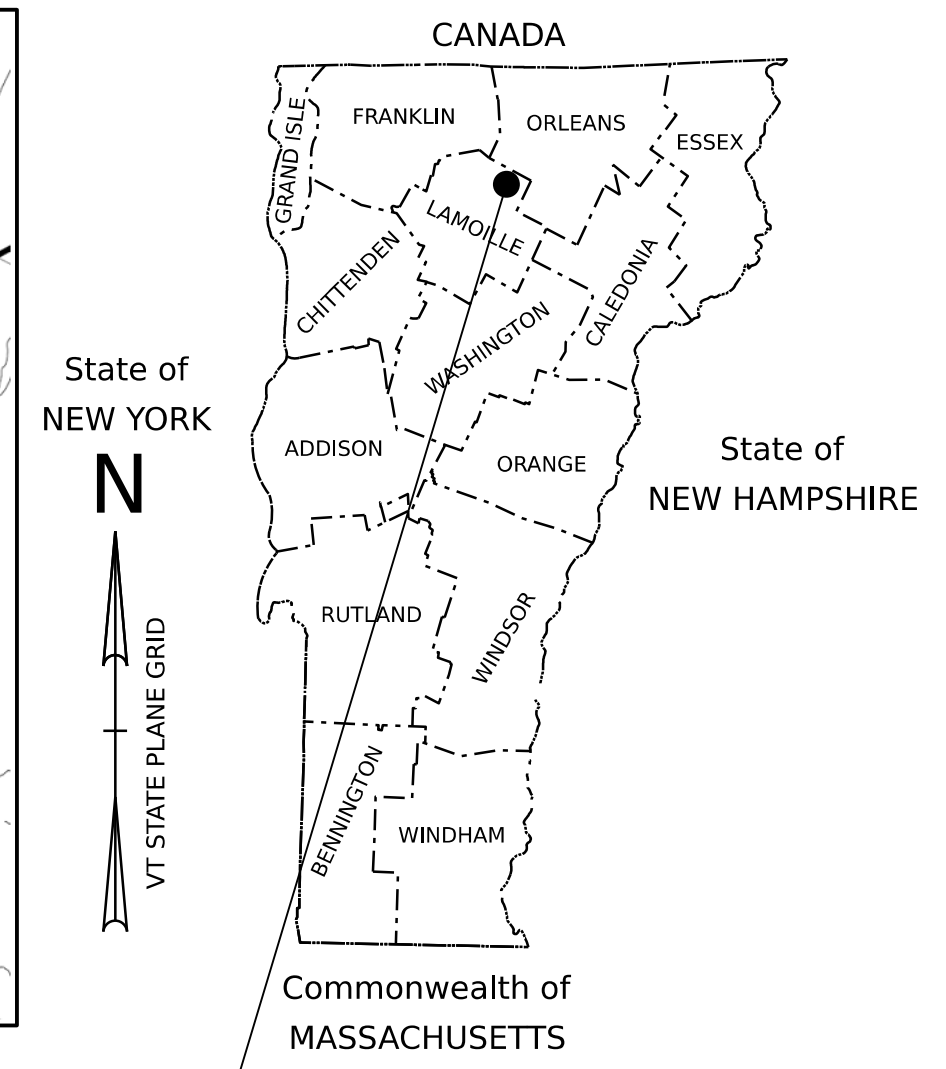
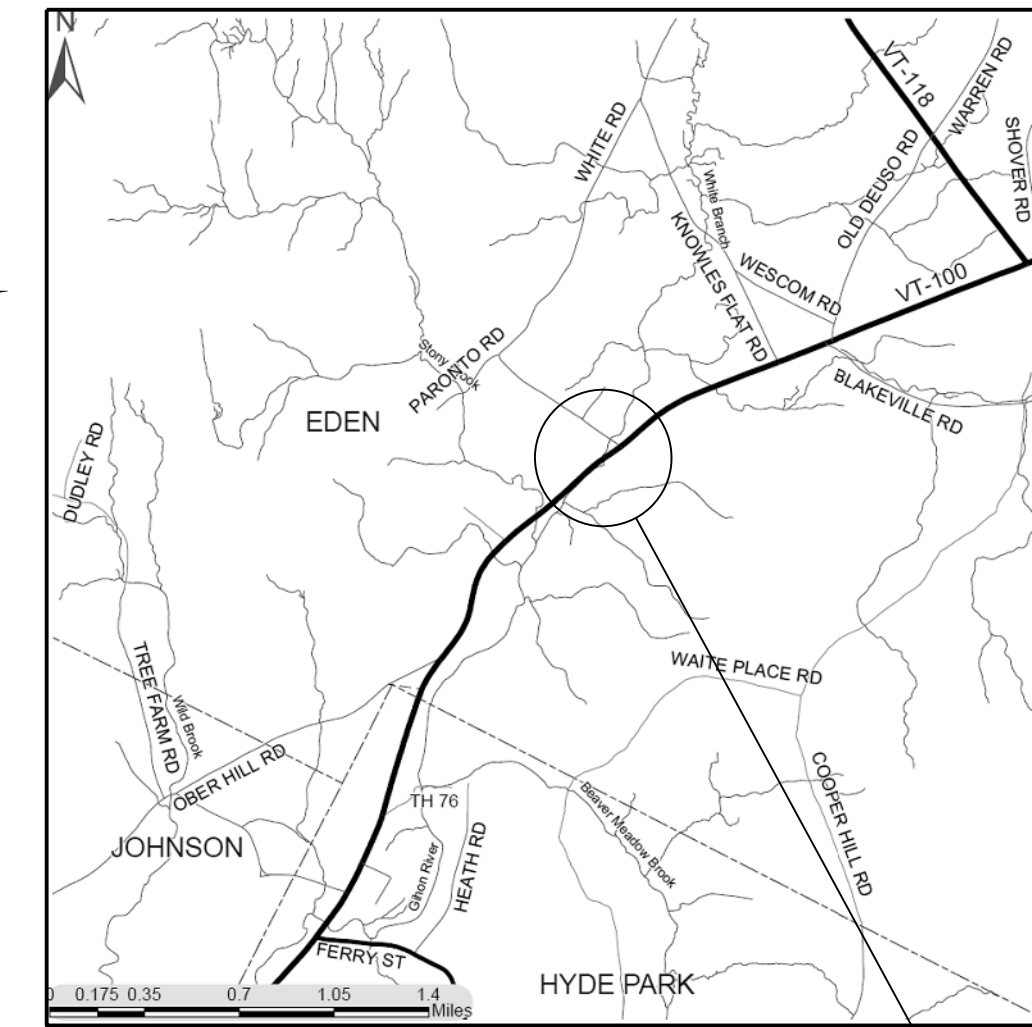
COUNTY OF LAMOILLE

ROUTE NO : VT 100; RURAL MINOR ARTERIAL BRIDGE NO : 220

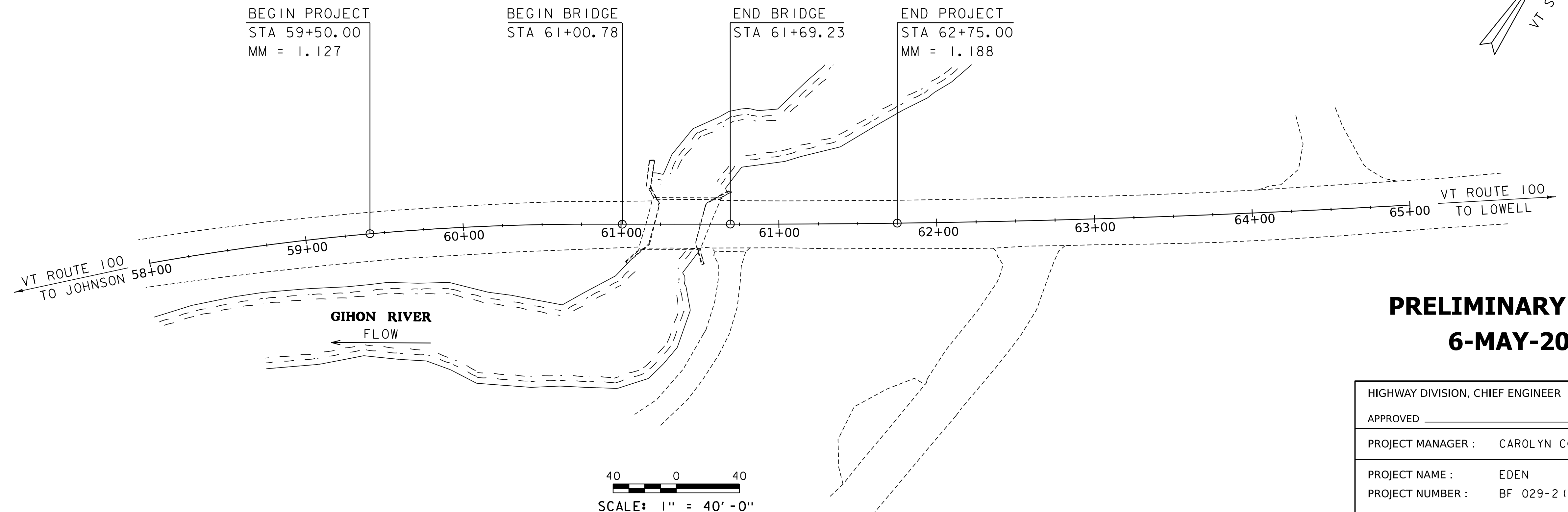
PROJECT LOCATION : IN THE TOWN OF EDEN ON VT 100 BEGINNING APPROXIMATELY 1.16 MILES NORTH OF THE EDEN/LOWELL TOWNLINE.

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING BRIDGE ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE : 68.45 FEET
LENGTH OF ROADWAY : 256.55 FEET
LENGTH OF PROJECT : 325.00 FEET

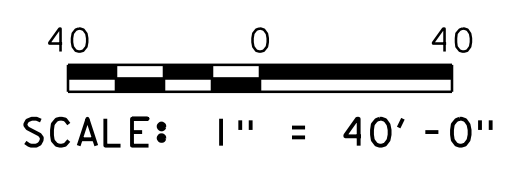


EDEN
BF 029-2 (15)



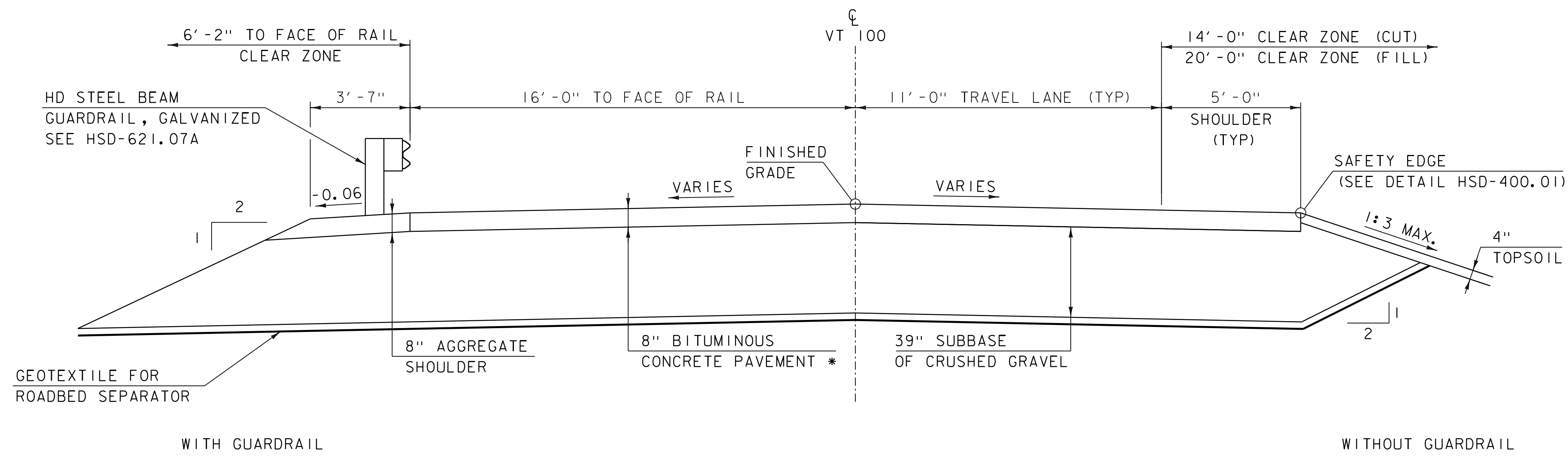
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	02/19/2011
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (96)



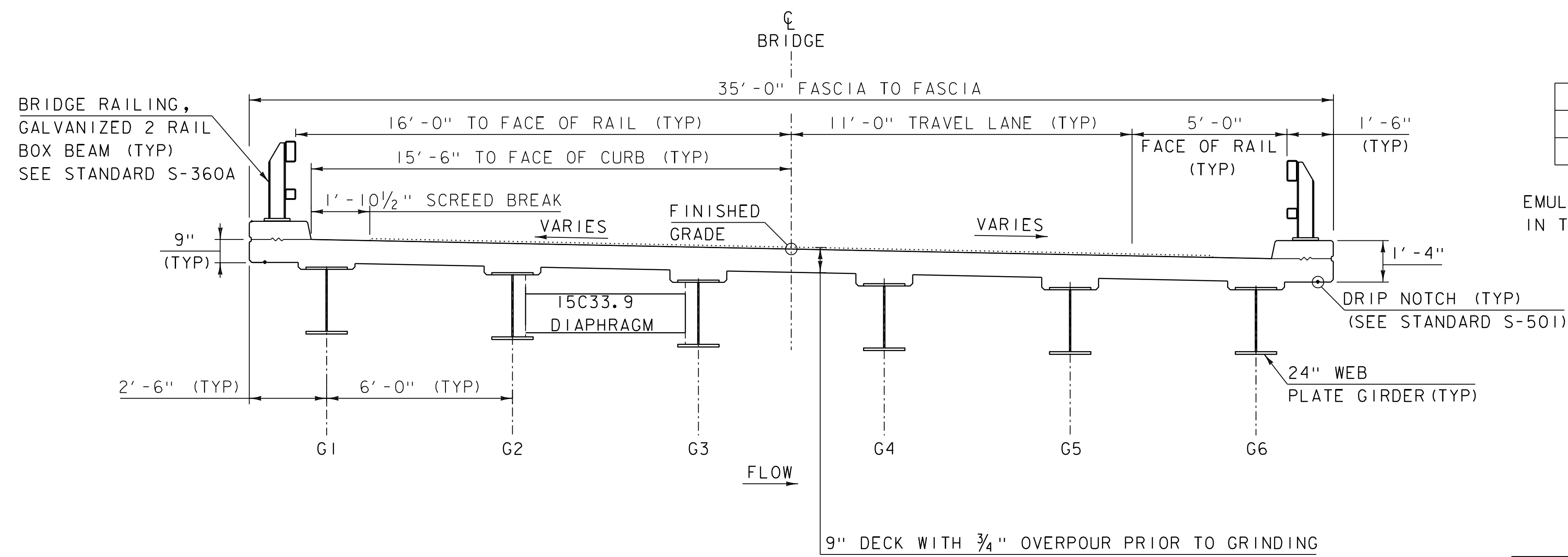
PRELIMINARY PLANS 6-MAY-2024

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : CAROLYN COTA, PE	
PROJECT NAME :	EDEN
PROJECT NUMBER :	BF 029-2 (15)
SHEET 1 OF 56 SHEETS	



* 2 - 1 1/2" LIFTS TYPE IVS QA TIER III
 2 - 2 1/2" LIFTS TYPE IIS QA TIER III

VT 100 TYPICAL SECTION
 SCALE: 3/8" = 1'-0"



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

PAVEMENT SPECIFICATIONS

DESIGN LANE/DESIGN LIFE ESALS	303,520
PERFORMANCE GRADE ASPHALT BINDER	58E-28
DESIGN NUMBER OF GYRATIONS	65

EMULSION SHALL BE APPLIED PER THE APPLICATION RATES IN TABLE 406.12A OF THE STANDARD SPECIFICATIONS.

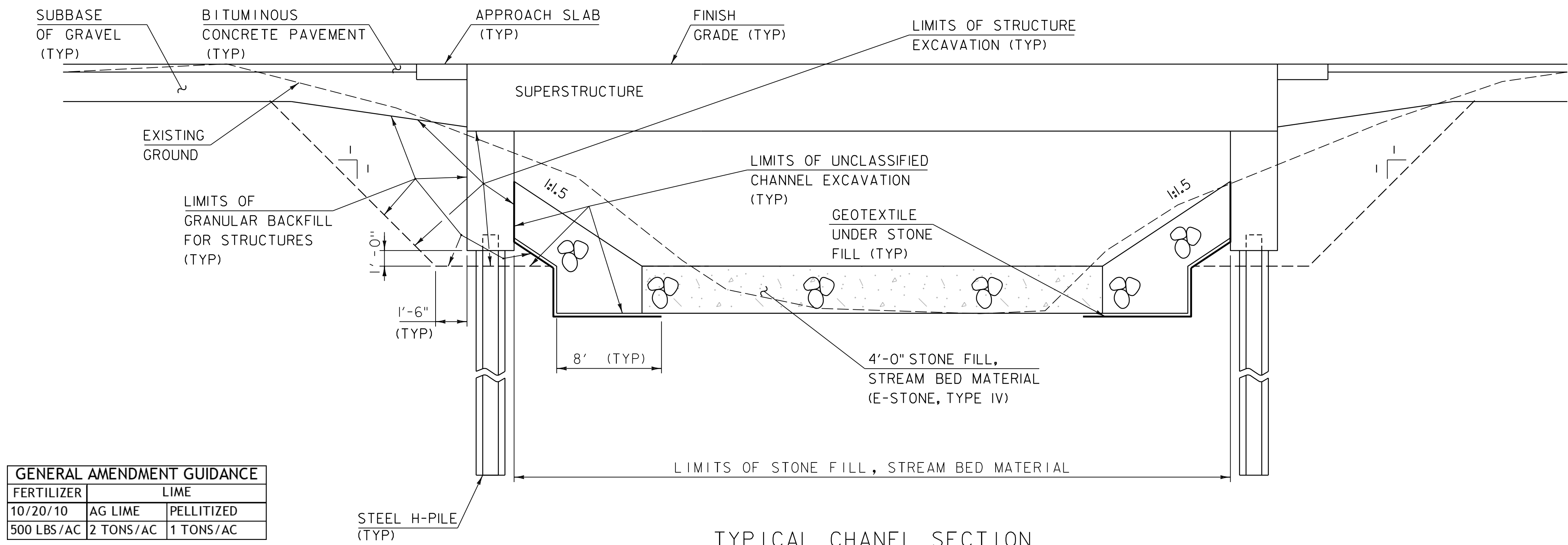
MATERIAL TOLERANCES
 (IF USED ON PROJECT)

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

PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)

FILE NAME: s2IB029typ.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 TYPICAL SECTIONS I

PLOT DATE: 6-MAY-2024
 DRAWN BY: J. PAQUETTE
 CHECKED BY: D. PETERSON
 SHEET 3 OF 56



TYPICAL CHANEL SECTION
(NOT TO SCALE)

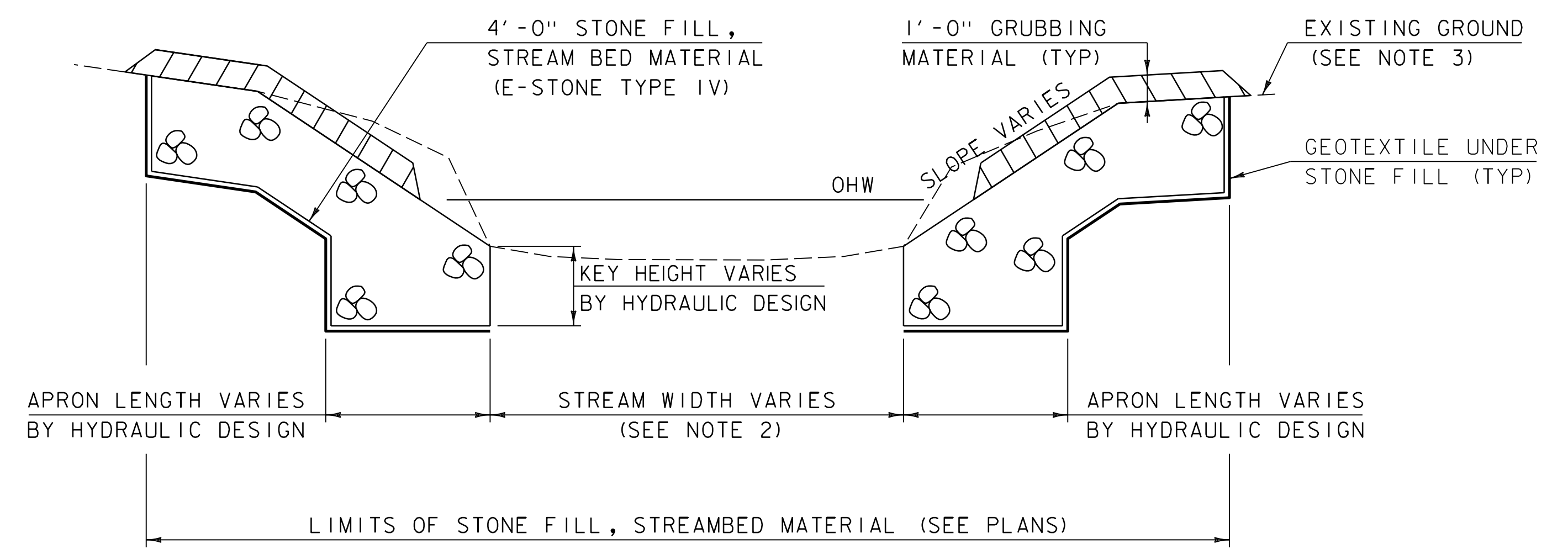
GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

VAOT LOW GROW/FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

CONSTRUCTION GUIDANCE

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.



TYPICAL CHANEL SECTION
(NOT TO SCALE)

1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
2. THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.
3. GRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED UNDERNEATH DOWNSPOUTS. SEE THE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2B029typ.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 4 OF 56
DESIGNED BY: J. PAQUETTE	TYPICAL SECTIONS 2

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						1					1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
						3270					3270		CY	COMMON EXCAVATION	203.15				
									20		20		CY	SOLID ROCK EXCAVATION	203.16				
									2710		2710		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27				
						330					330		CY	EARTH BORROW	203.30				
						90					90		CY	TRENCH EXCAVATION OF EARTH	204.20				
									990		990		CY	STRUCTURE EXCAVATION	204.25				
						100			210		310		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30				
						2432					2432		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10				
						3340					3340		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35				
						185					185		CY	AGGREGATE SURFACE COURSE	401.10				
						120					120		TON	AGGREGATE SHOULDERS	402.12				
													CWT	EMULSIFIED ASPHALT	404.65				
						1					1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	406.29				
									1		1		LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.10				
									264		264		LF	STEEL PILING, HP 10 X 57	505.12				
									2		2		EACH	DYNAMIC PILE LOADING TEST	505.45				
									61051		61051		LB	STRUCTURAL STEEL, PLATE GIRDER (WEATHERED) (FPQ)	506.55				
									27343		27343		LB	REINFORCING STEEL, LEVEL I (EPOXY COATED)	507.11				
									21779		21779		LB	REINFORCING STEEL, LEVEL II	507.12				
									30		30		GAL	WATER REPELLENT, SILANE	514.10				
									67		67		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10				
									137		137		LF	BRIDGE RAILING, GALVANIZED 2 RAIL BOX BEAM	525.33				
									1		1		LS	TWO-WAY TEMPORARY BRIDGE	528.11				
									1		1		EACH	REMOVAL OF STRUCTURE	529.15				
						9					9		CY	CONCRETE, CLASS B	541.25				
						65					65		LF	18" CPEP	601.0915				
								10			10		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25				
						159					159		MGAL	DUST CONTROL WITH WATER	609.10				
									4500		4500		CY	STONE FILL, STREAM BED MATERIAL (E-STONE TYPE III)	613.06				
						60					60		CY	STONE FILL, TYPE I	613.10				
						350					350		CY	STONE FILL, TYPE II	613.11				
						161					161		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28				
						6					6		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.10				
						14					14		EACH	REMOVE AND RESET MAILBOX, MULTIPLE SUPPORT	617.12				
						275					275		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20				
						4					4		EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51				
						380					380		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80				
						50					50		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
						500					500		HR	FLAGGERS	630.15				

PROJECT NAME: EDEN
PROJECT NUMBER: BF 029-2(15)
FILE NAME: s2b029qty.dgn PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE CHECKED BY: D. PETERSON
QUANTITY SHEET 1 SHEET 5 OF 56

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										1	1		LS	FIELD OFFICE, ENGINEERS	631.10				
										1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16				
										1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17				
													DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26				
										8	8		EACH	CPM SCHEDULE	633.10				
							520				520		HR	EMPLOYEE TRAINEESHIP	634.10				
						1					1		LS	MOBILIZATION/DEMOBILIZATION	635.11				
						1					1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11				
						1684					1684		LF	4 INCH WHITE LINE, WATERBORNE PAINT	646.201				
						1684					1684		LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111				
						4580					4580		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11				
									910		910		SY	GEOTEXTILE UNDER STONE FILL	649.31				
								14			14		LB	SEED	651.15				
								120			120		LB	FERTILIZER	651.18				
								0.5			0.5		TON	AGRICULTURAL LIMESTONE	651.20				
								58			58		CY	TOPSOIL	651.35				
								1570			1570		SY	GRUBBING MATERIAL	651.40				
								1			1		LS	EPSC PLAN	653.01				
								75			75		HR	MONITORING EPSC PLAN	653.02				
								1			1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03				
								1170			1170		SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.20				
								30			30		CY	CHECK DAM, TYPE I	653.25				
								45			45		CY	STABILIZED CONSTRUCTION ENTRANCE	653.35				
								1581			1581		LF	SILT FENCE, TYPE I	653.475				
								1581			1581		LF	BARRIER FENCE	653.50				
									111		111		CY	SPECIAL PROVISION (PERFORMANCE BASED CONCRETE, CLASS PCD)	900.608				
									188		188		CY	SPECIAL PROVISION	900.608				

PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2b029qty.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 6 OF 56
DESIGNED BY: J. PAQUETTE	
QUANTITY SHEET 2	

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT CODE	DESCRIPTION
BF	BARRIER FENCE
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
PDF	PROJECT DEMARCATION FENCE
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
R.T. & I.	RIGHT, TITLE, AND INTEREST
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
▣	BNDNS BOUND TO BE SET
⊙	IPNF IRON PIN FOUND
●	IPNS IRON PIN TO BE SET
⊠	CALC EXISTING ROW POINT
○	PROW PROPOSED ROW POINT
[LENGTH]	LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— CZ —	CLEAR ZONE
—	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

—	TOP OF CUT SLOPE
—	TOE OF FILL SLOPE
—	STONE FILL
—	BOTTOM OF DITCH
—	CULVERT PROPOSED
—	STRUCTURE SUBSURFACE
— PDF —	PROJECT DEMARCATION FENCE
— BF —	BARRIER FENCE
—	TREE PROTECTION ZONE (TPZ)
—	STRIPING LINE REMOVAL
—	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

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

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

ENVIRONMENTAL RESOURCES

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

ARCHEOLOGICAL & HISTORIC

— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	HISTORIC AREA
— (H) —	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

EXISTING FEATURES

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

PROJECT NAME: EDEN
PROJECT NUMBER: BF 029-02(15)

FILE NAME: s21b029legend.dgn PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA DRAWN BY: R. PELLETT
DESIGNED BY: R. PELLETT CHECKED BY: D. PETERSON
CONVENTIONAL SYMBOLGY LEGEND SHEET 7 OF 56

Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name: VT ROUTE 100						
PC	58+00.00	800515.824	1620026.030			
PI	59+40.06	800613.530	1620126.381	1572.635	279.383	140.060
PT	60+79.38	800691.965	1620242.419			
PT	60+79.38	800691.965	1620242.419			
PC	61+79.39	800747.972	1620325.277			
PC	61+79.39	800747.972	1620325.277			
PI	64+10.67	800877.488	1620516.884	7317.952	462.393	231.273
PT	66+41.79	801018.843	1620699.930			

CURVE (x)
 DELTA = 75°45'15"
 D = 141°47'54"
 R = 40.41'
 T = 31.43'
 L = 53.42'
 e = 10.78'

CURVE (x)
 DELTA = 10°10'44"
 D = 03°38'36"
 R = 1572.63'
 T = 140.06'
 L = 279.38'
 e = 6.22'

CURVE (x)
 DELTA = 38°42'40"
 D = 17°18'09"
 R = 331.14'
 T = 116.33'
 L = 223.73'
 e = 19.84'

CURVE (x)
 DELTA = 65°58'24"
 D = 54°56'57"
 R = 104.27'
 T = 67.68'
 L = 120.06'
 e = 20.04'

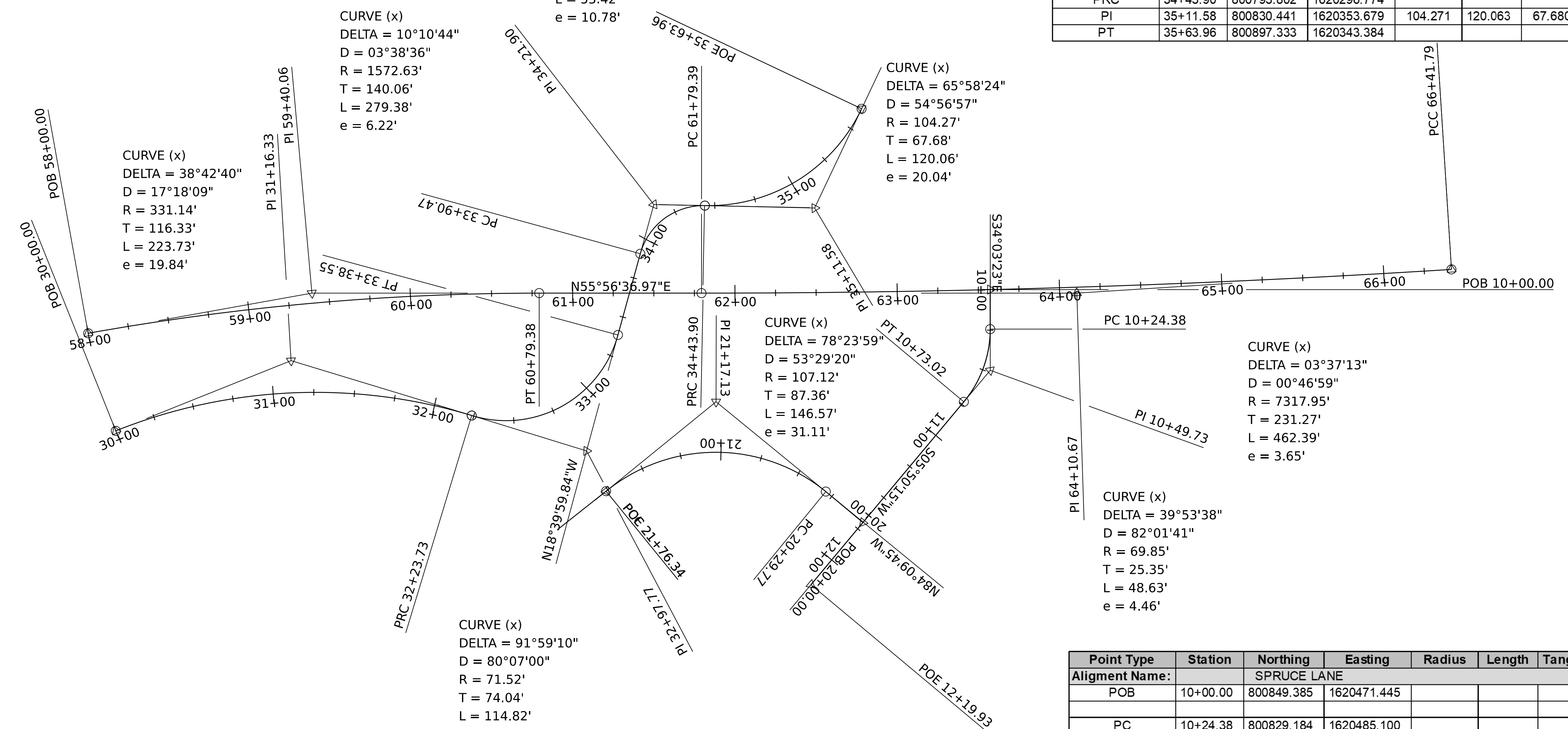
CURVE (x)
 DELTA = 78°23'59"
 D = 53°29'20"
 R = 107.12'
 T = 87.36'
 L = 146.57'
 e = 31.11'

CURVE (x)
 DELTA = 03°37'13"
 D = 00°46'59"
 R = 7317.95'
 T = 231.27'
 L = 462.39'
 e = 3.65'

CURVE (x)
 DELTA = 39°53'38"
 D = 82°01'41"
 R = 69.85'
 T = 25.35'
 L = 48.63'
 e = 4.46'

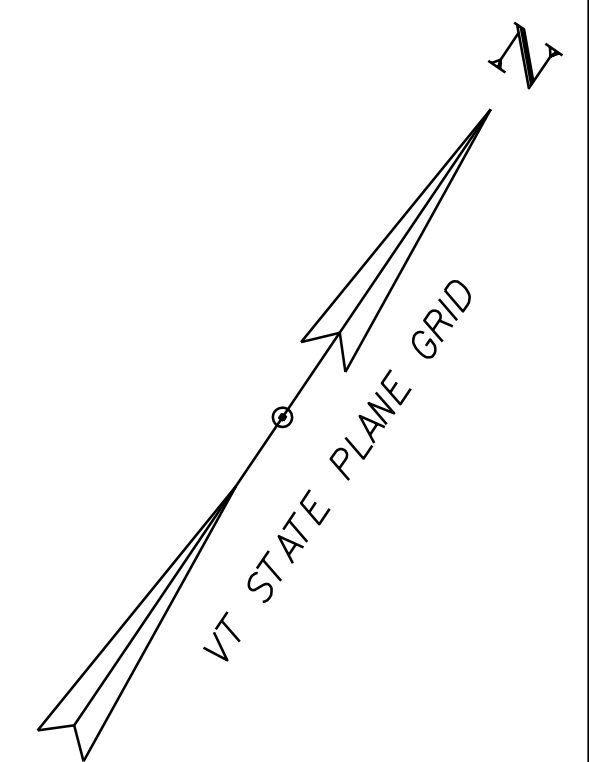
CURVE (x)
 DELTA = 91°59'10"
 D = 80°07'00"
 R = 71.52'
 T = 74.04'
 L = 114.82'
 e = 31.42'

Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name: CHANNEL						
PC	30+00.00	800475.535	1620073.826			
PI	31+16.32	800571.831	1620139.084	331.143	223.732	116.325
PRC	32+23.73	800606.160	1620250.228			
PRC	32+23.73	800606.160	1620250.228			
PI	32+97.77	800627.711	1620321.060	71.515	114.815	74.038
PT	33+38.55	800697.754	1620297.068			
PT	33+38.55	800697.754	1620297.068			
PC	33+90.47	800746.948	1620280.448			
PC	33+90.47	800746.948	1620280.448			
PI	34+21.90	800776.724	1620270.389	40.407	53.424	31.430
PRC	34+43.90	800793.802	1620296.774			
PRC	34+43.90	800793.802	1620296.774			
PI	35+11.58	800830.441	1620353.679	104.271	120.063	67.680
PT	35+63.96	800897.333	1620343.384			

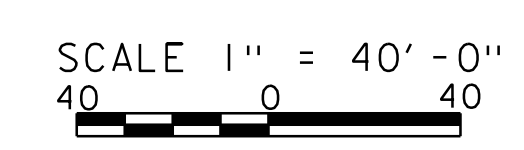


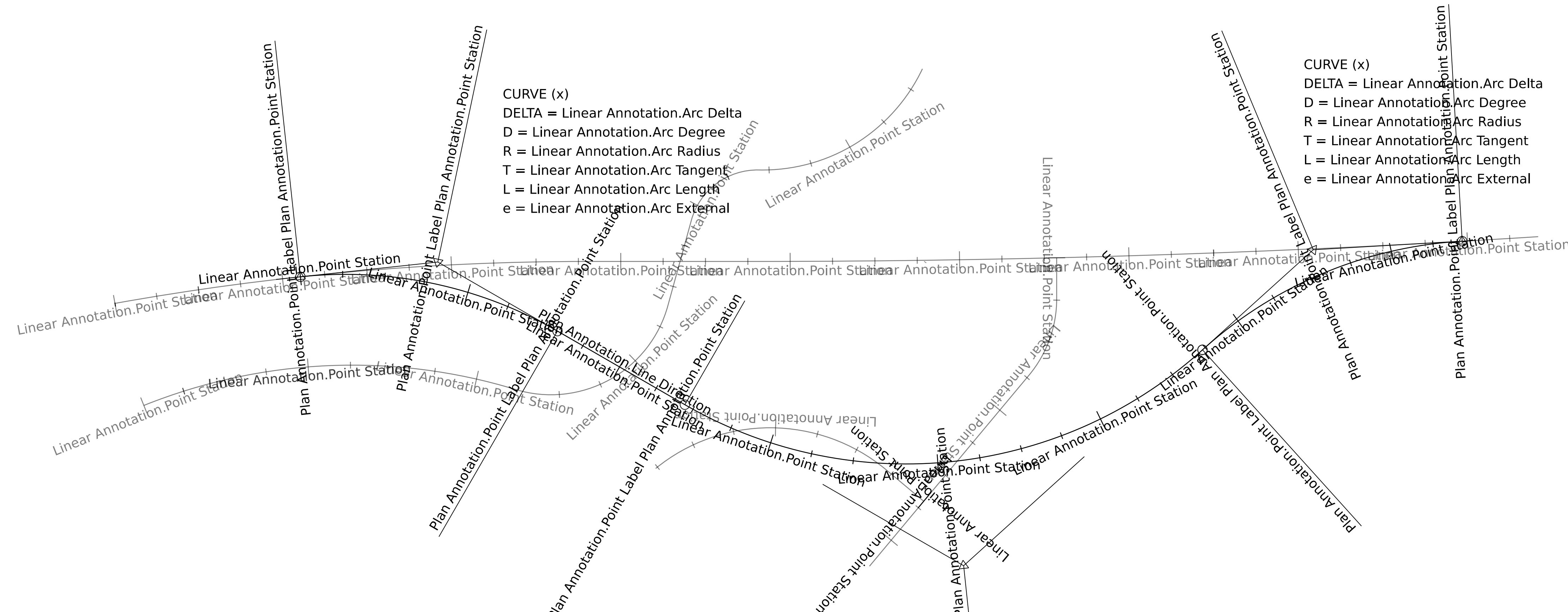
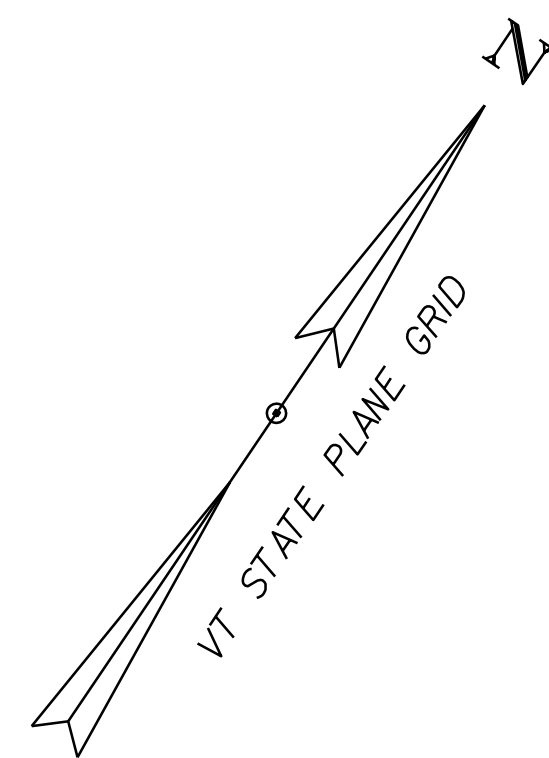
Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name: FIELD LANE						
POB	20+00.00	800686.485	1620486.855			
PC	20+29.77	800689.512	1620457.238			
PI	21+17.13	800697.494	1620370.242	107.117	146.571	87.362
PT	21+76.34	800613.880	1620344.929			

Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name: SPRUCE LANE						
POB	10+00.00	800849.385	1620471.445			
PC	10+24.38	800829.184	1620485.100			
PI	10+49.73	800808.182	1620499.296	69.849	48.634	25.350
PT	10+73.02	800782.964	1620496.718			
POE	12+19.93	800636.815	1620481.776			



PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)
 FILE NAME: s2IB029align.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 ALIGNMENT
 PLOT DATE: 6-MAY-2024
 DRAWN BY: R. PELLETT
 CHECKED BY: D. PETERSON
 SHEET 8 OF 56



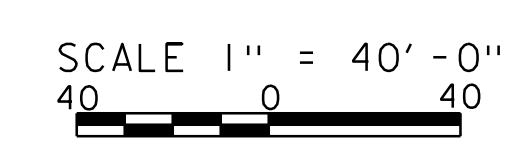


CURVE (x)
 DELTA = Linear Annotation.Arc Delta
 D = Linear Annotation.Arc Degree
 R = Linear Annotation.Arc Radius
 T = Linear Annotation.Arc Tangent
 L = Linear Annotation.Arc Length
 e = Linear Annotation.Arc External

CURVE (x)
 DELTA = Linear Annotation.Arc Delta
 D = Linear Annotation.Arc Degree
 R = Linear Annotation.Arc Radius
 T = Linear Annotation.Arc Tangent
 L = Linear Annotation.Arc Length
 e = Linear Annotation.Arc External

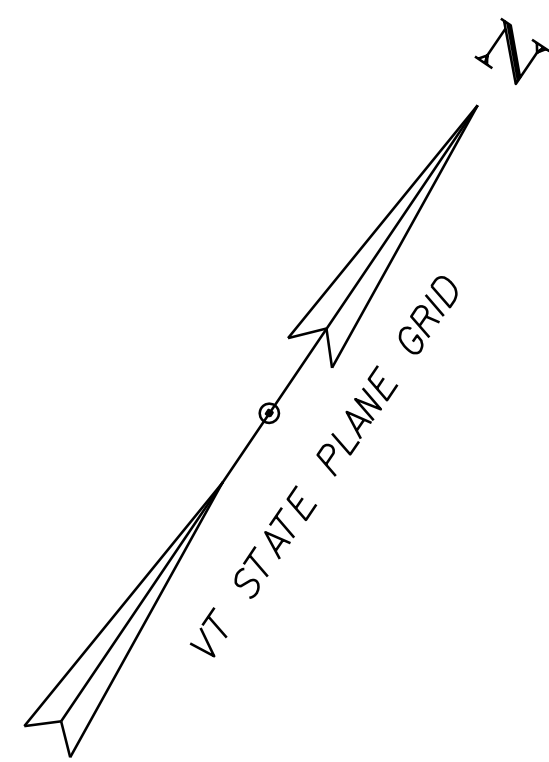
CURVE (x)
 DELTA = Linear Annotation.Arc Delta
 D = Linear Annotation.Arc Degree
 R = Linear Annotation.Arc Radius
 T = Linear Annotation.Arc Tangent
 L = Linear Annotation.Arc Length
 e = Linear Annotation.Arc External

Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name: DETOUR						
PC	40+00.00	800590.114	1620107.902			
PI	40+81.57	800642.772	1620170.199	250.000	157.697	81.571
PT	41+57.70	800648.555	1620251.565			
PT	41+57.70	800648.555	1620251.565			
PC	42+44.52	800654.709	1620338.165			
PC	42+44.52	800654.709	1620338.165			
PI	44+34.47	800668.175	1620527.646	261.116	328.452	189.959
PRC	45+72.96	800852.601	1620573.164			
PRC	45+72.96	800852.601	1620573.164			
PI	46+61.03	800938.102	1620594.266	250.000	169.346	88.066
PT	47+42.31	800991.499	1620664.297			



PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)
 FILE NAME: s2B029DetourAlign.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 DETOUR ALIGNMENT

PLOT DATE: 6-MAY-2024
 DRAWN BY: R. PELLET
 CHECKED BY: D. PETERSON
 SHEET 9 OF 56



MAINLINE STA 61+35.00
 CHANNEL STA 3+65.32
 DELTA = 74° 36' 37"

BEGIN APPROACH
 STA 58+00.00

BEGIN PROJECT
 STA 59+50.00

BEGIN BRIDGE
 STA 61+00.78

END BRIDGE
 STA 61+69.23

MATCH LINE
 STA 62+25

STONE FILL TYPE II
 STA 58+50.00 RT - STA 60+89.50 RT
 REMOVE MAIL BOX
 STA 61+78.76 RT - STA 61+86.88 RT

① NEW 18" CPEP PIPE
 STA 61+58.17 RT - 61+82.44 RT

① REMOVE AND DISPOSE 18" RCP PIPE
 STA 61+52.40 RT - 61+82.14 RT

CONSTRUCT DITCH
 STA 61+79.71 RT - STA 62+25.00 (MATCHLINE)

VT ROUTE 100
 TO HYDE PARK

STONE FILL TYPE II

TEMPORARY CONSTRUCTION LIMITS

STREAM BED MATERIAL

EXISTING BRIDGE INFORMATION
 SINGLE SPAN T-BEAM BRIDGE BUILT 1932
 EXPANDED W/ ROLLED BEAMS IN 1971
 CONCRETE CAST IN PLACE DECK
 33' MAX SPAN

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

PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)

FILE NAME: s2IB029bdr.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 LAYOUT I

PLOT DATE: 6-MAY-2024
 DRAWN BY: J. PAQUETTE
 CHECKED BY: D. PETERSON
 SHEET 10 OF 56

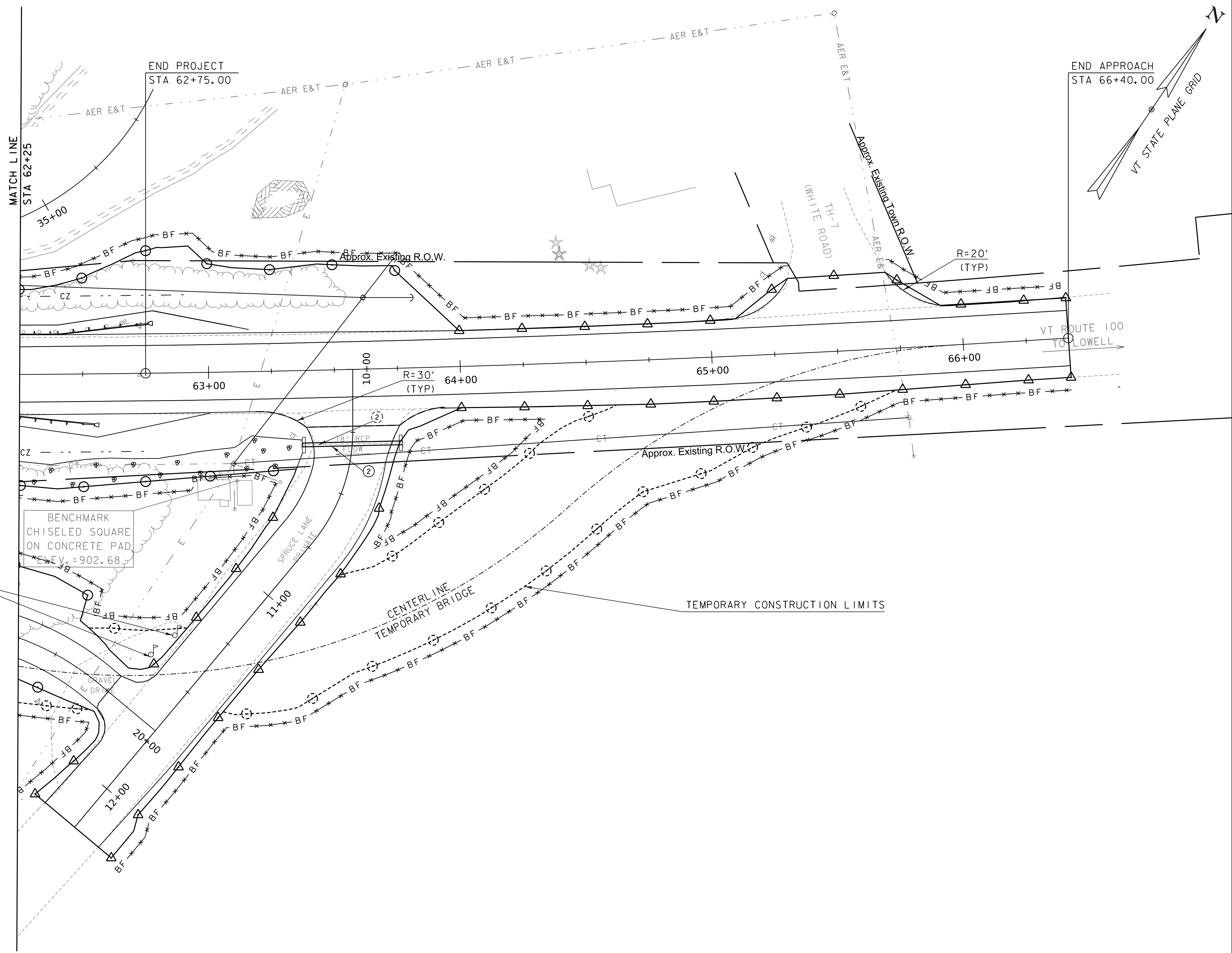
CONSTRUCT DITCH
 STA 62+25.00 RT (MATCHLINE) - STA 63+36.55 RT

② REMOVE AND DISPOSE 18" RCP PIPE
 STA 63+36.01 RT - STA 63+77.15 RT

② NEW 18" CPEP PIPE
 STA 63+36.63 RT - STA 63+76.21 RT

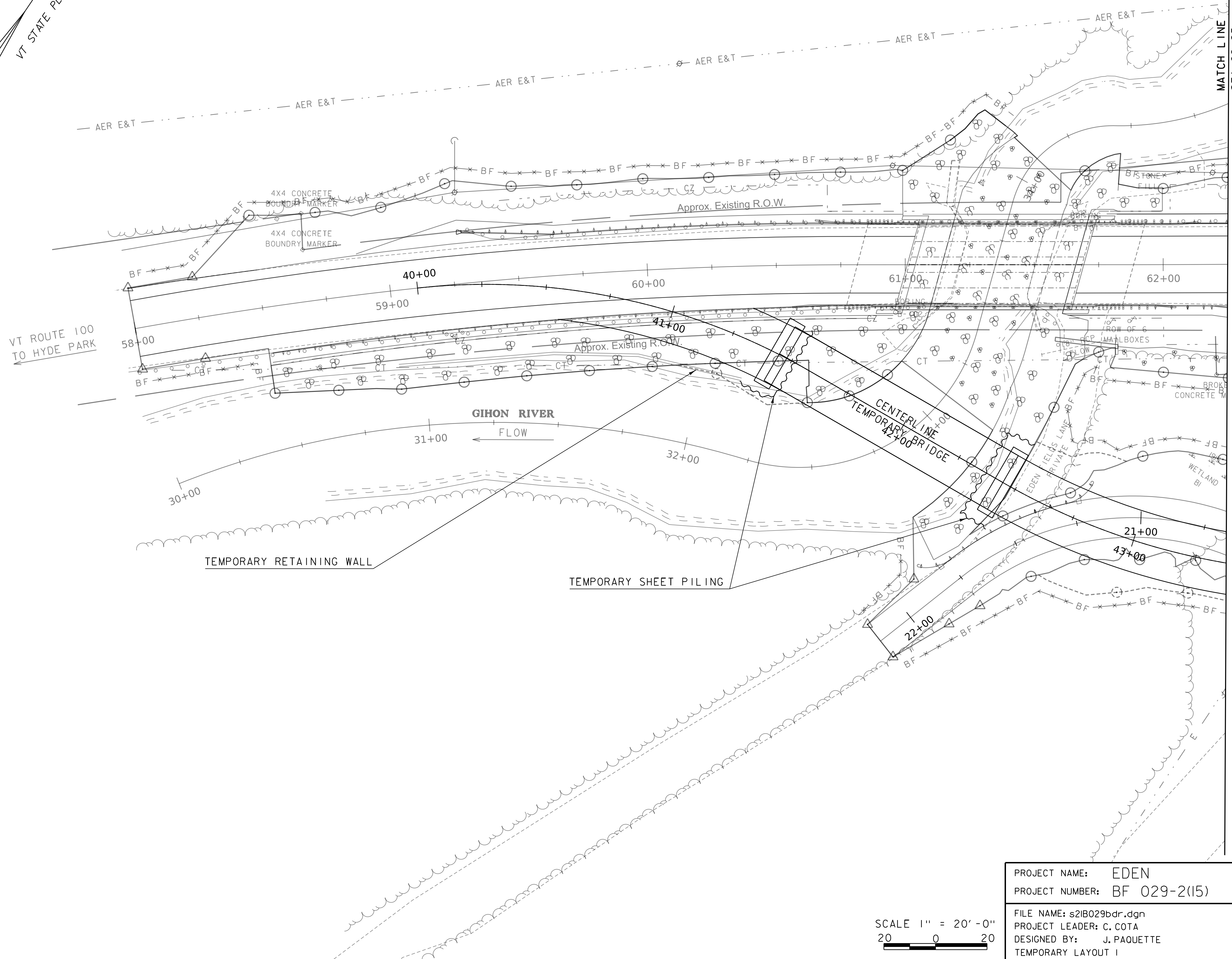
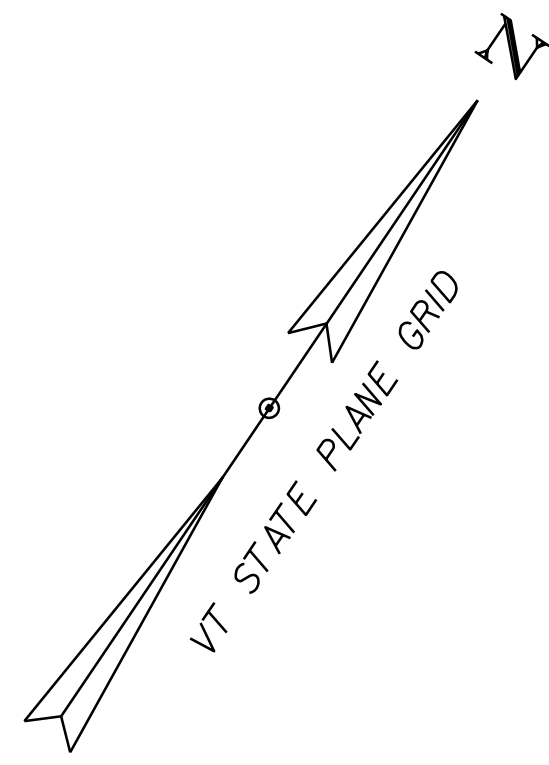
RESET MAIL BOX
 STA 11+35.88 RT - STA 11+47.83 RT (SPRUCE LANE)

RESET MAILBOX



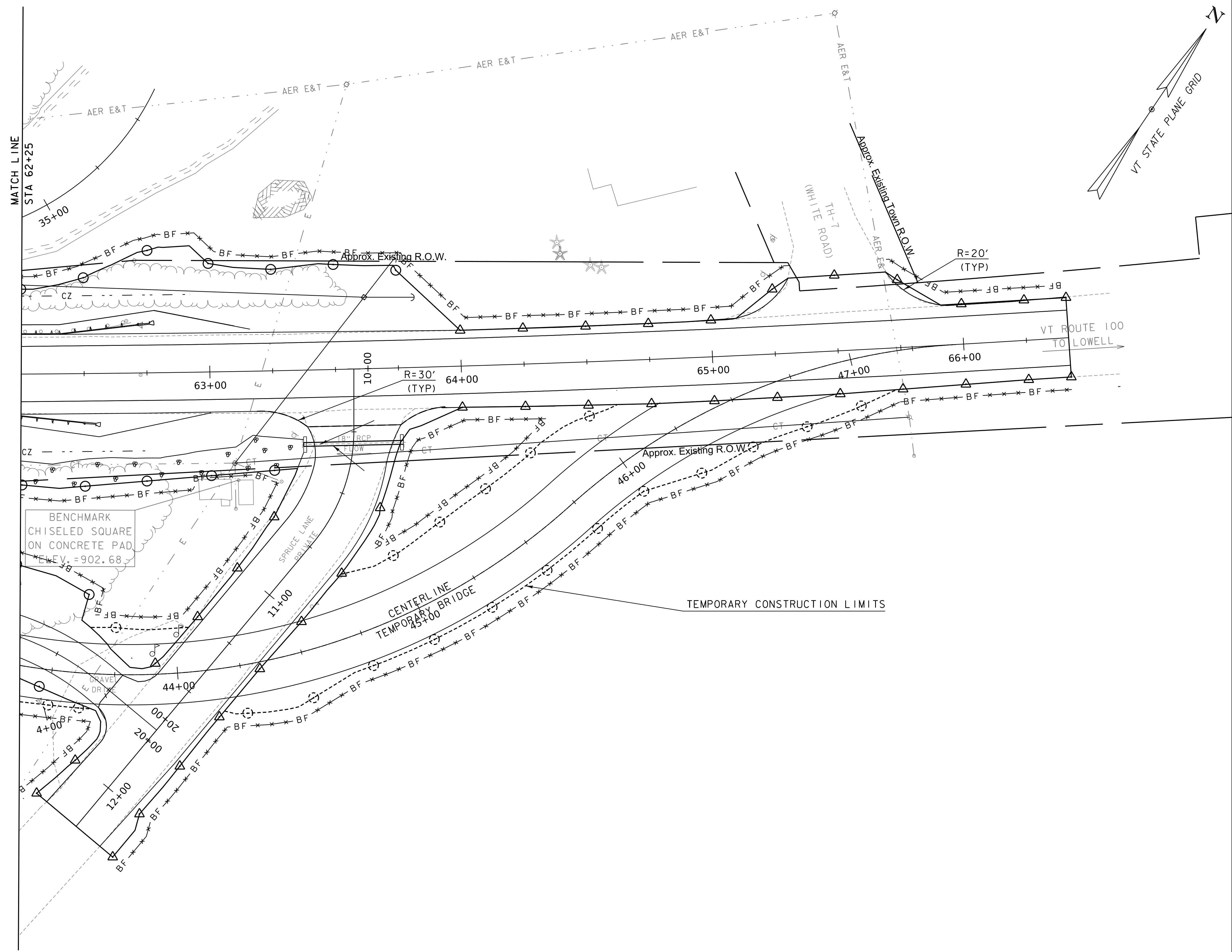
SCALE 1" = 20'-0"
 20 0 20

PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2IB029bdr.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 11 OF 56
DESIGNED BY: J. PAQUETTE	
LAYOUT 2	



PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2IB029bdr.dgn	DESIGNED BY:	J. PAQUETTE
PROJECT LEADER:	C. COTA	TEMPORARY LAYOUT I	CHECKED BY: D. PETERSON
			SHEET 12 OF 56

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



PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2IB029bdr.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	13 OF 56
DESIGNED BY:	J. PAQUETTE		
LAYOUT 2			

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

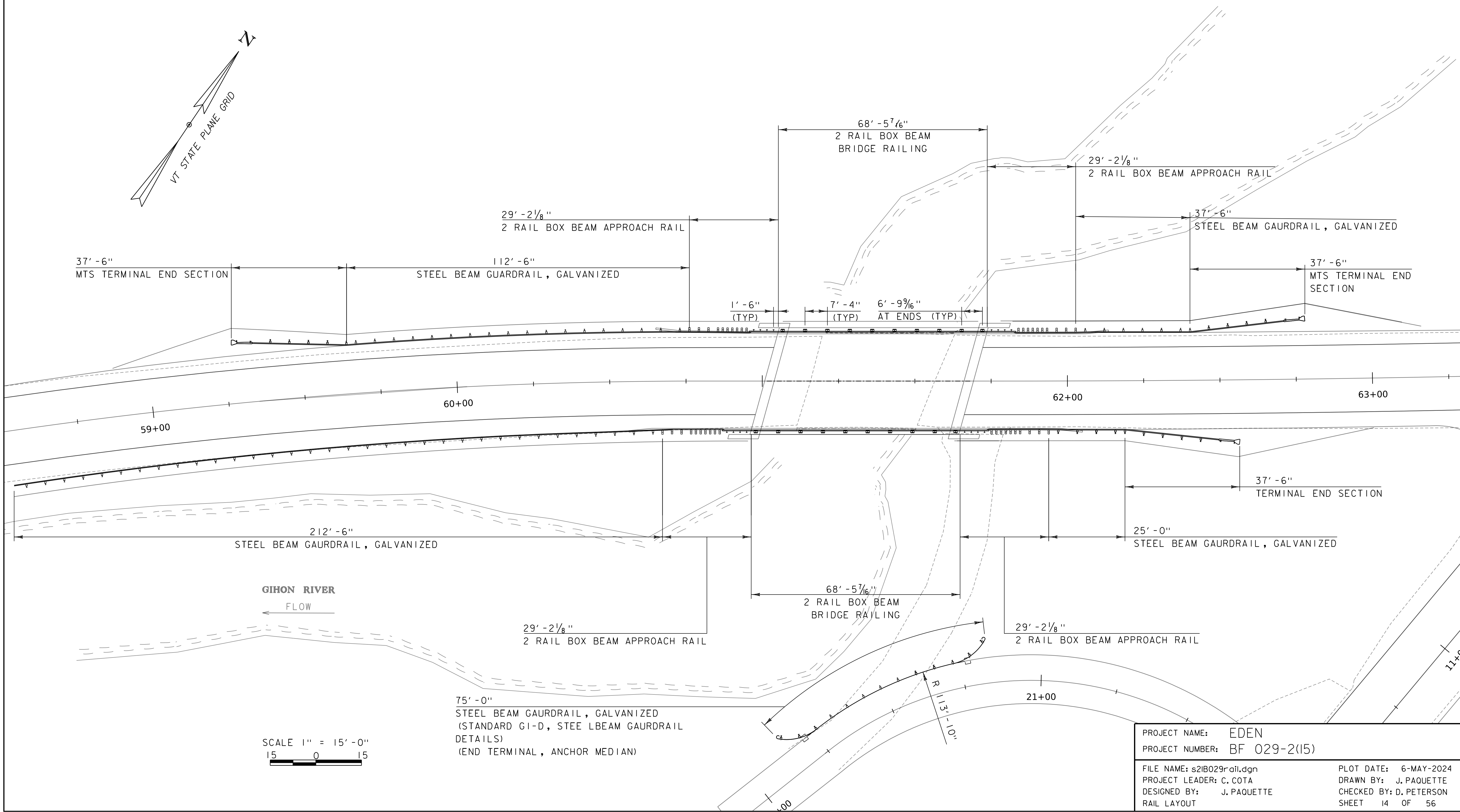
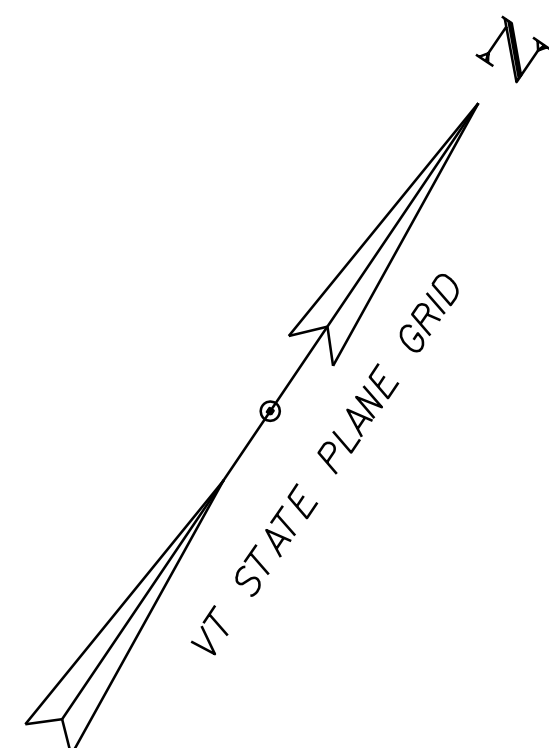
MTS TERMINAL END SECTION
 STA 59+27.97 LT - STA 59+64.81 LT
 STA 62+40.36 LT - STA 62+78.18 LT
 STA 62+18.74 RT - STA 62+56.15 RT

2 RAIL BOX BEAM APPROACH SECTION
 STA 60+69.97 LT - 61+05.18 LT
 STA 60+60.86 RT - 60+96.37 RT
 STA 61+73.64 LT - 62+02.78 LT
 STA 61+64.83 RT - 61+93.84 RT

2 RAIL BOX BEAM, BRIDGE RAILING
 STA 61+05.18 LT - 61+73.64 LT
 STA 60+96.37 RT - 61+64.83 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
 STA 59+27.97 LT - STA 61+20.20 LT
 STA 58+50.14 RT - STA 61+10.33 RT
 STA 61+64.07 LT - STA 62+68.93 LT

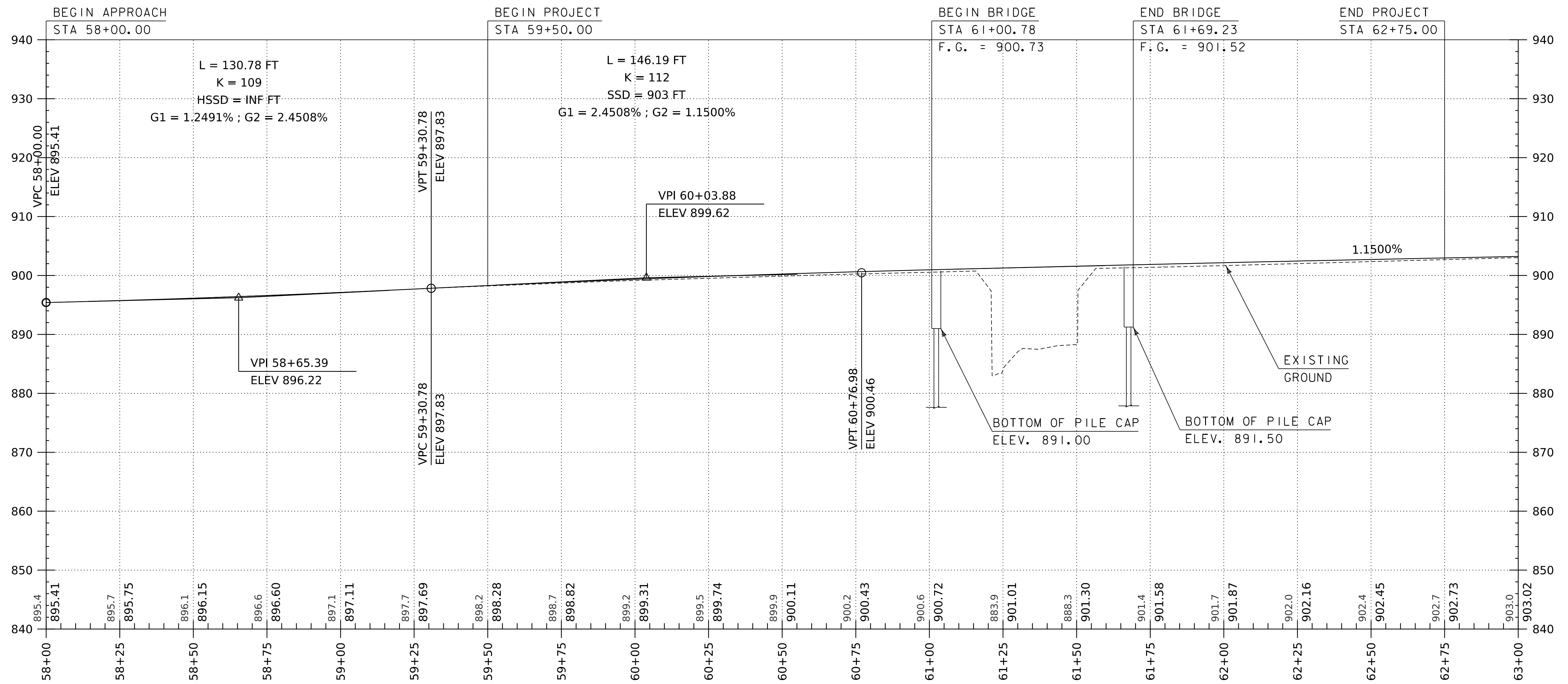
STEEL BEAM GUARDRAIL, GALVANIZED
 VT 100:
 STA 58+51.41 RT - STA 60+60.86 RT
 STA 62+02.78 LT - STA 62+40.36 LT
 STA 61+93.84 RT - STA 62+18.74 RT
 FIELD LANE:
 STA 21+24.43 RT - STA 21+75.64 RT



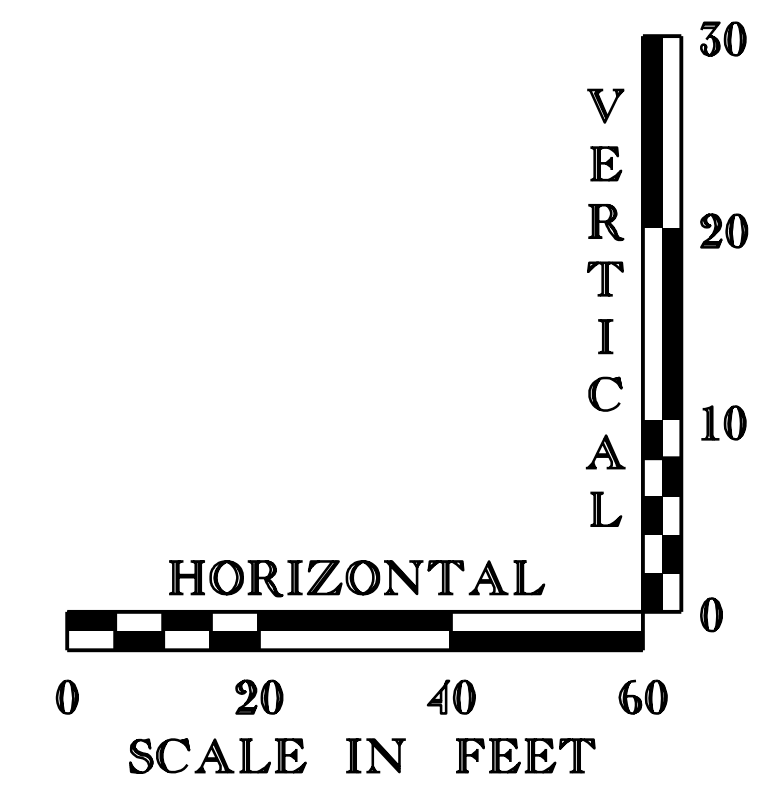
SCALE 1" = 15'-0"
 15 0 15

75'-0"
 STEEL BEAM GAURDRAIL, GALVANIZED
 (STANDARD G1-D, STEE LBEAM GAURDRAIL
 DETAILS)
 (END TERMINAL, ANCHOR MEDIAN)

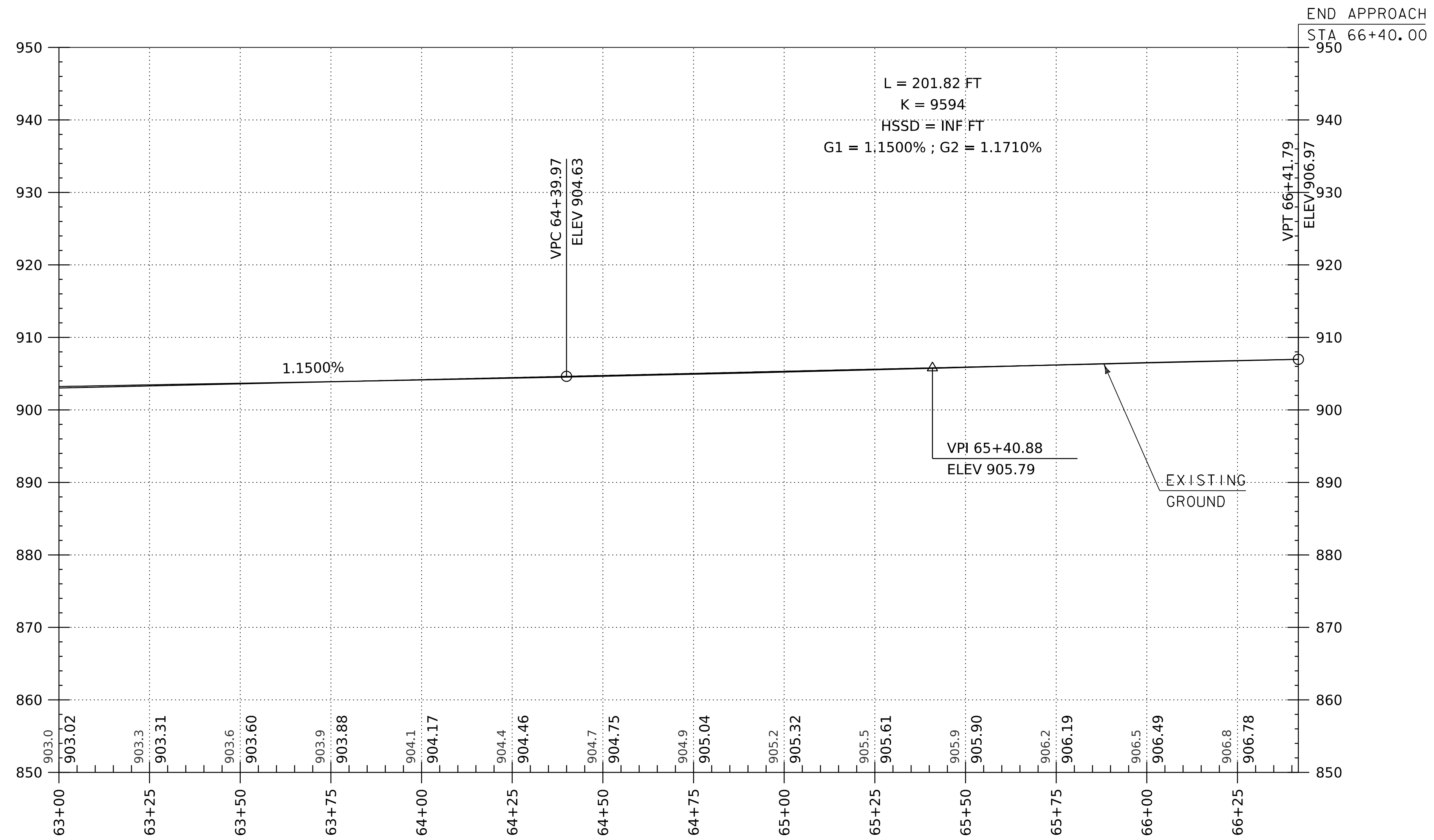
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2B029rail.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	RAIL LAYOUT	SHEET 14 OF 56
DESIGNED BY:	J. PAQUETTE		



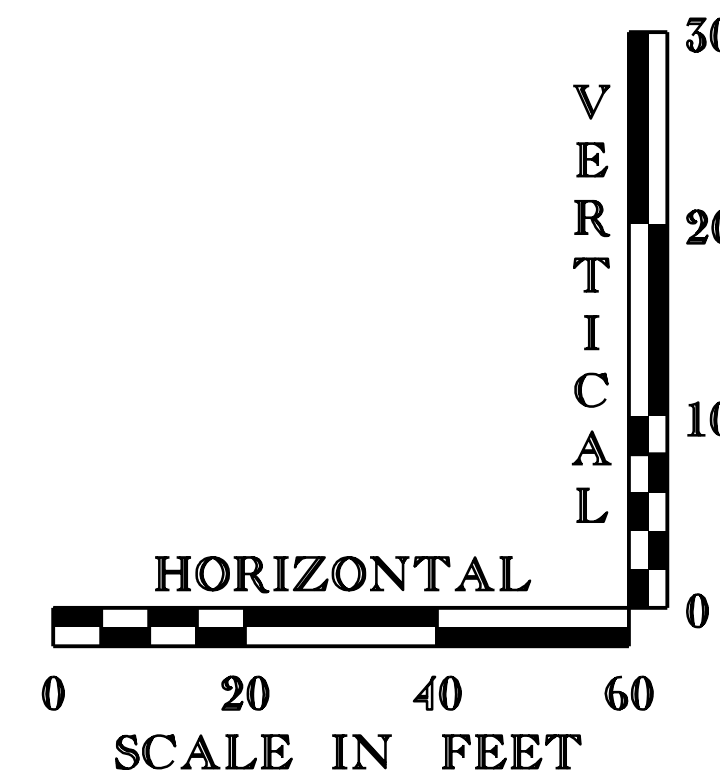
VT ROUTE 100 PROFILE I



PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2IB029pro.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 15 OF 56
DESIGNED BY: J. PAQUETTE	
VT RTE 100 PROFILE I	



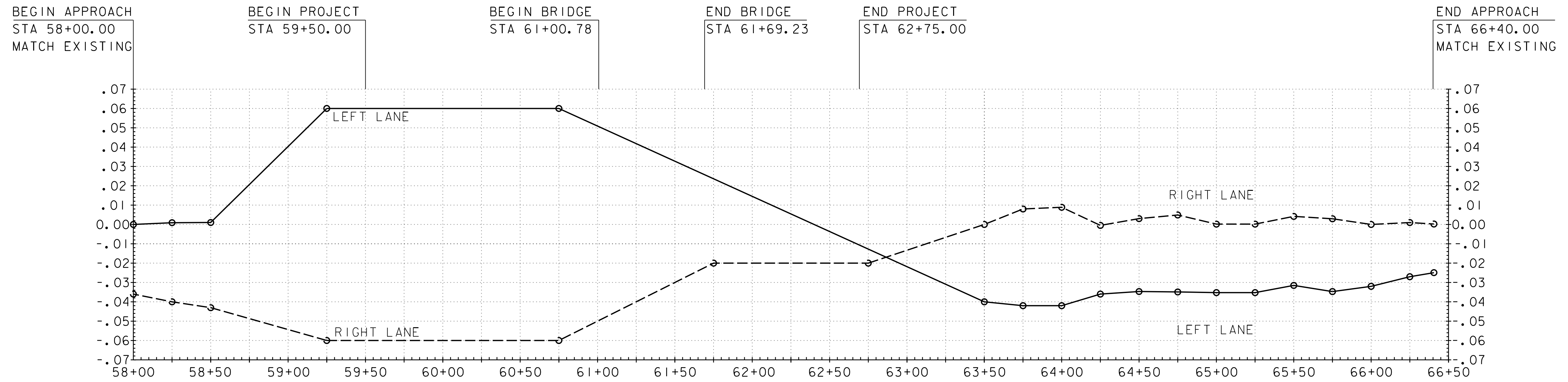
VT ROUTE 100 PROFILE 2



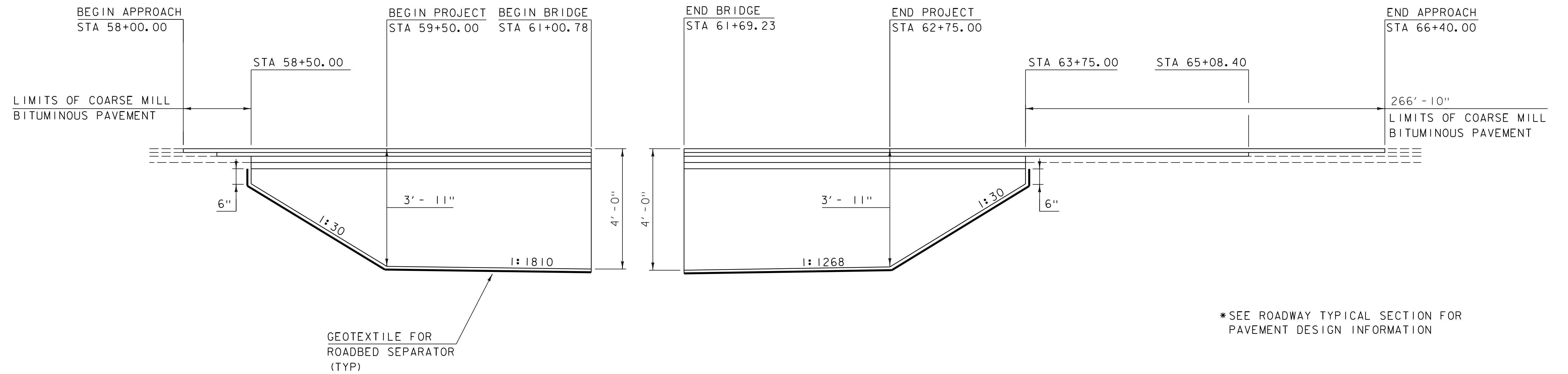
PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)

FILE NAME: s2IB029pro.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 VT RTE 100 PROFILE 2

PLOT DATE: 6-MAY-2024
 DRAWN BY: J. PAQUETTE
 CHECKED BY: D. PETERSON
 SHEET 16 OF 56

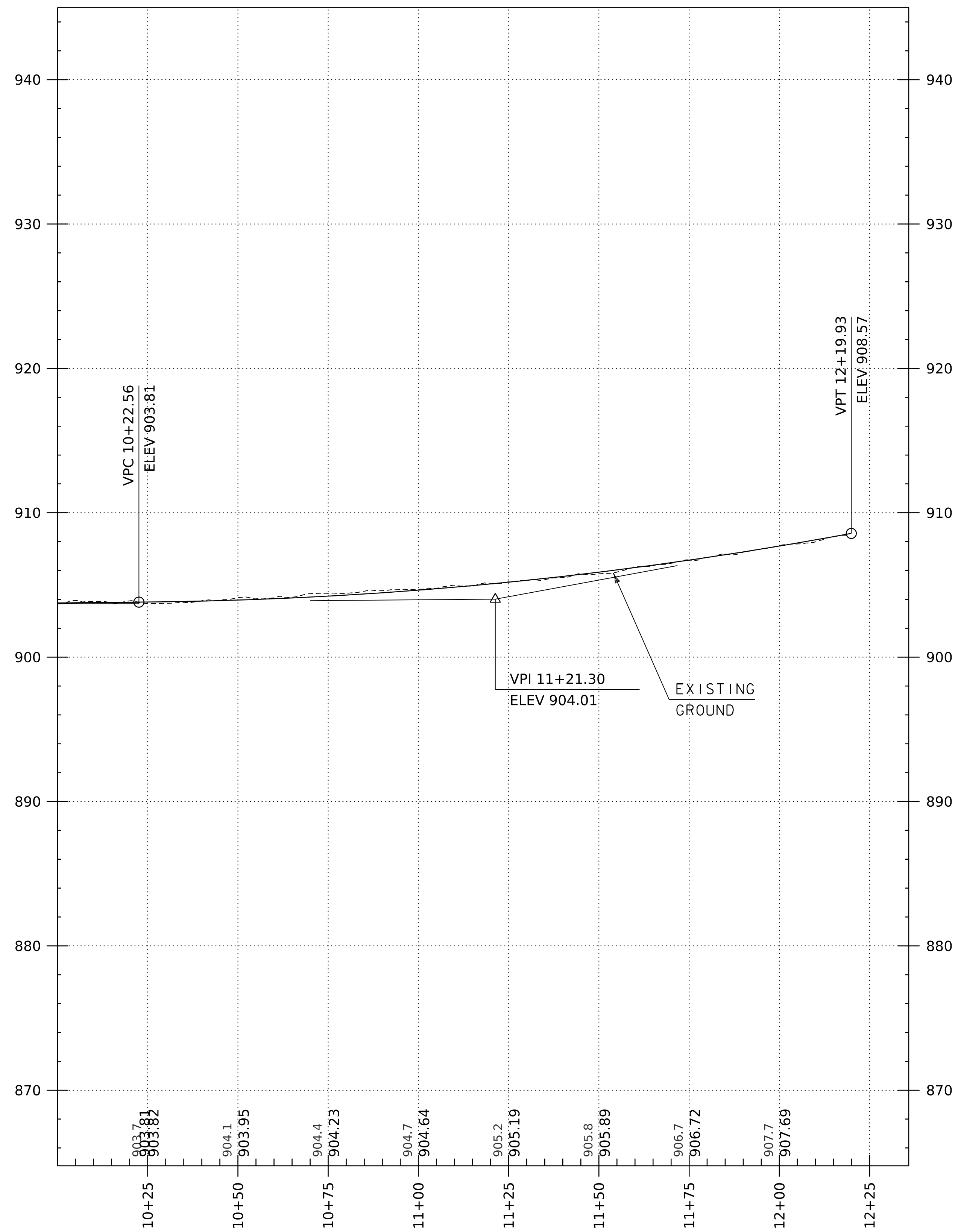


BANKING DIAGRAM
NOT TO SCALE

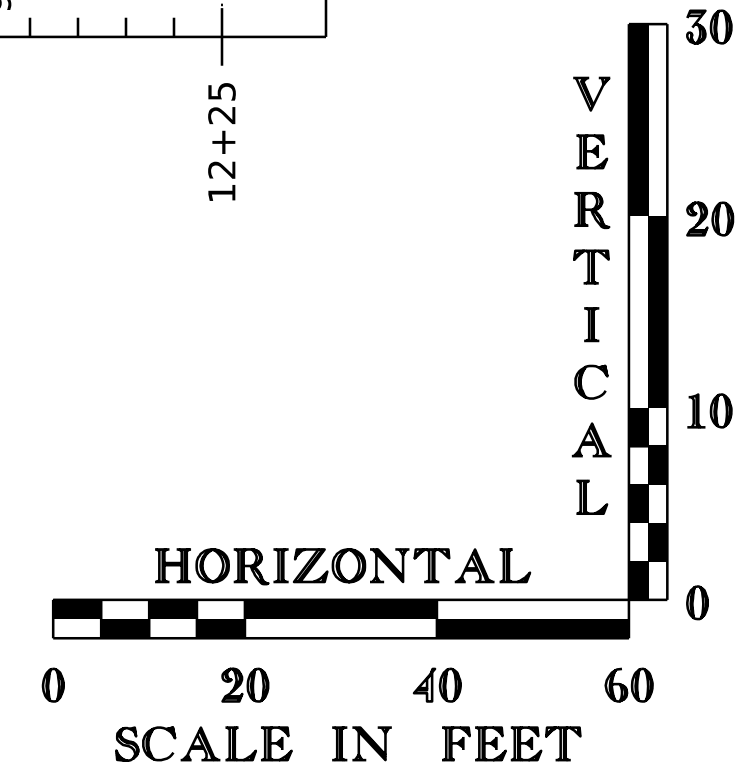


MATERIAL TRANSITION DIAGRAM
SCALE: HORIZONTAL: 1"=20'-0"
VERTICAL: NTS

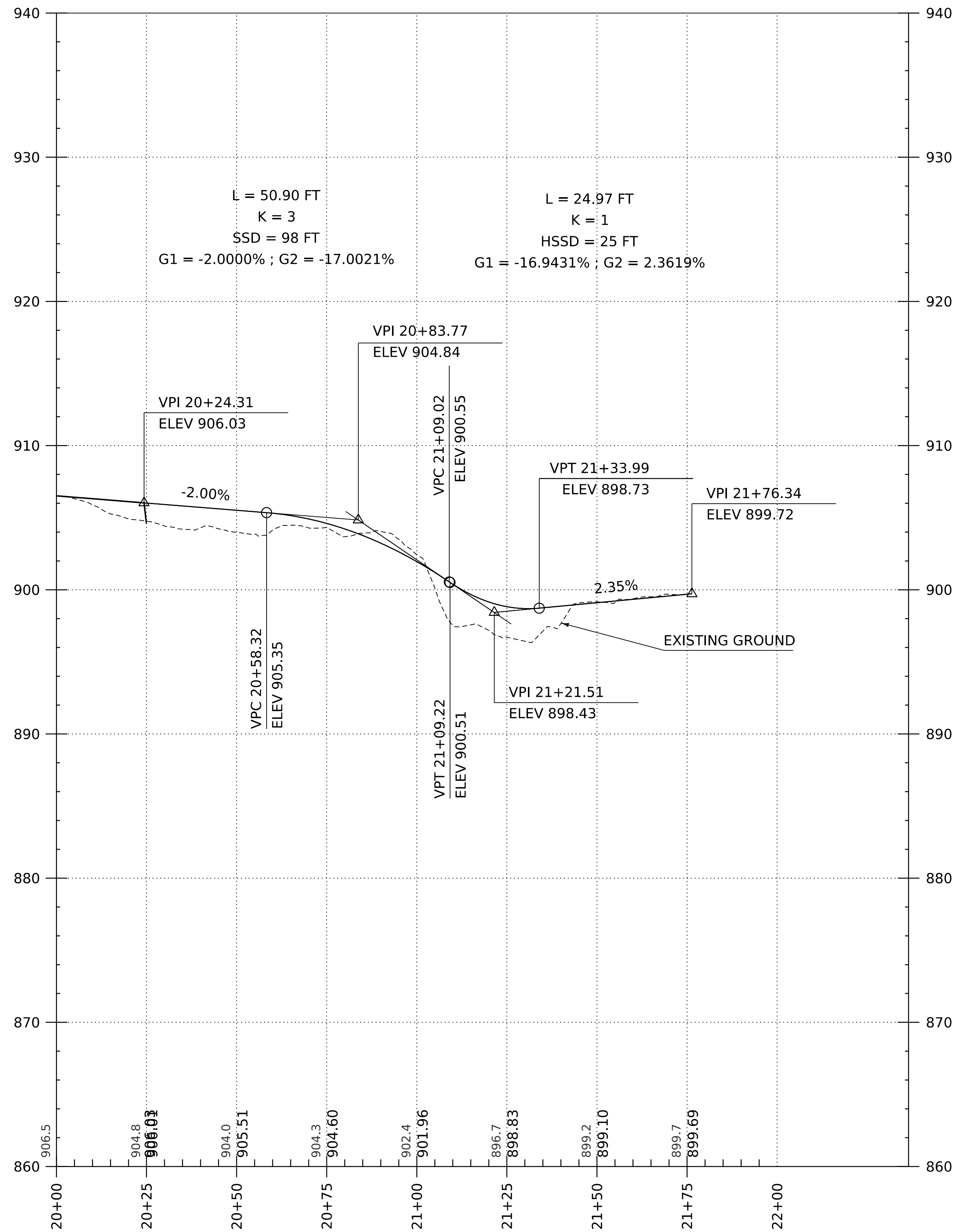
PROJECT NAME:	EDEN
PROJECT NUMBER:	BF 029-2(15)
FILE NAME:	s2b029bank_mat.dgn
PROJECT LEADER:	C. COTA
DESIGNED BY:	J. PAQUETTE
BANKING AND MATERIAL TRANSITION DIAGRAM SHEET	17 OF 56
PLOT DATE:	6-MAY-2024
DRAWN BY:	J. PAQUETTE
CHECKED BY:	D. PETERSON



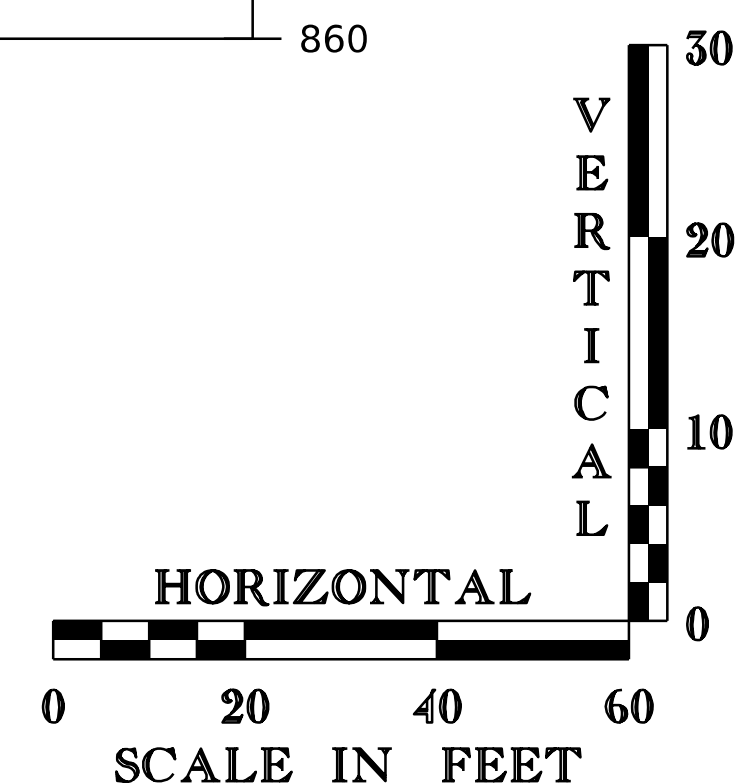
SPRUCE LANE PROFILE



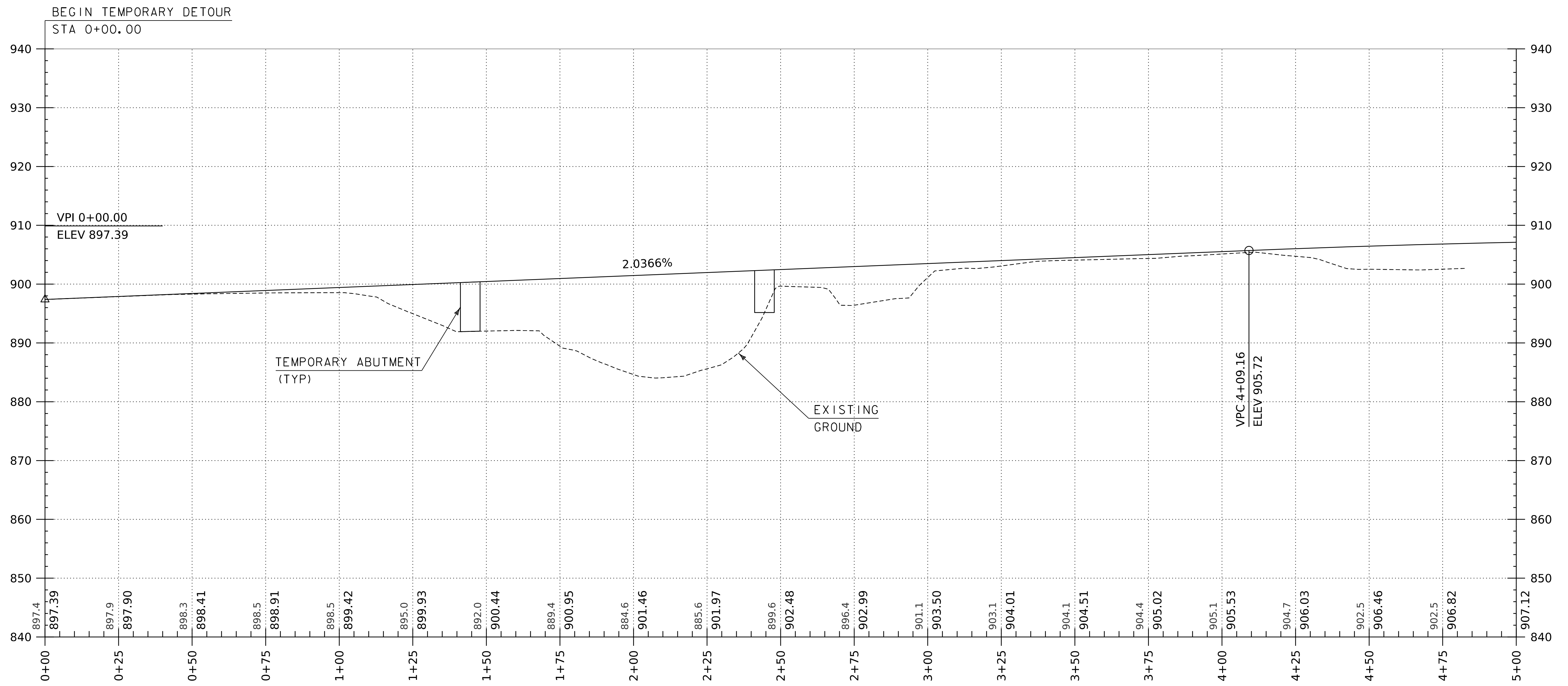
PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J.PAQUETTE
FILE NAME: s2b029sideroadpro.dgn	CHECKED BY: D.PETERSON
PROJECT LEADER: C.COTA	SHEET 18 OF 56
DESIGNED BY: J.PAQUETTE	
SPRUCE LANE PROFILE	



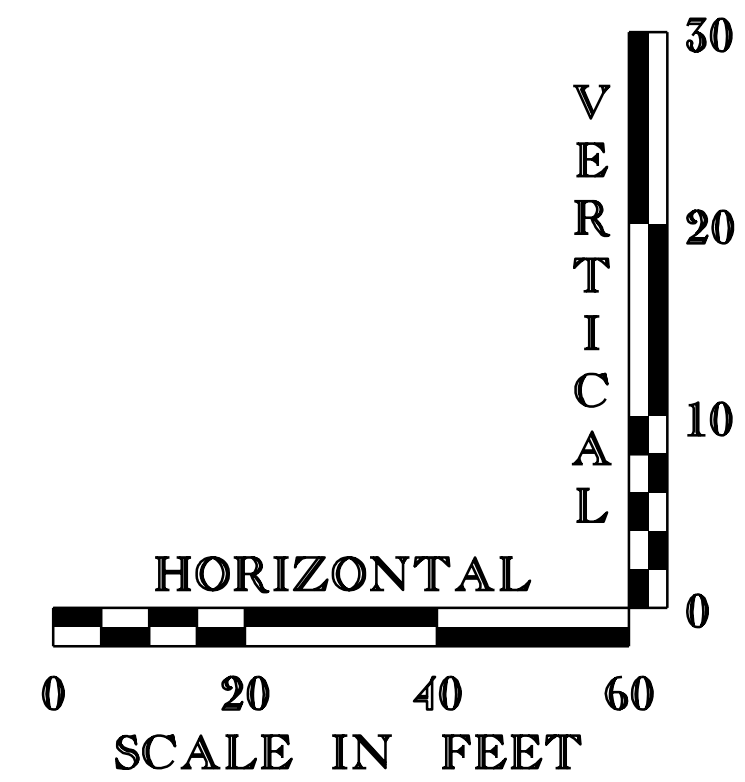
FIELD LANE PROFILE



PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2b029sideroadpro.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 19 OF 56
DESIGNED BY: J. PAQUETTE	
FIELD LANE PROFILE	



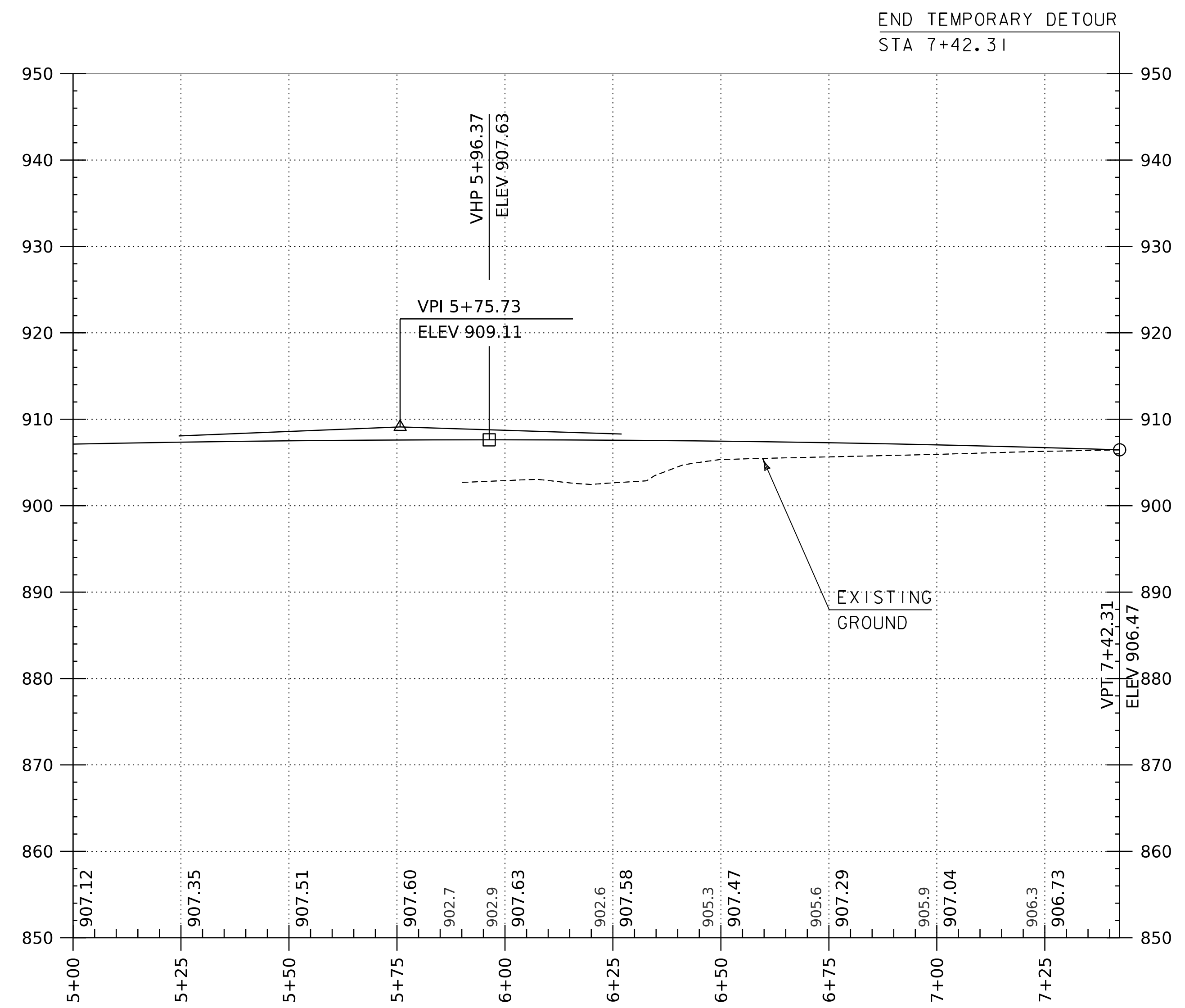
TEMPORARY PROFILE I



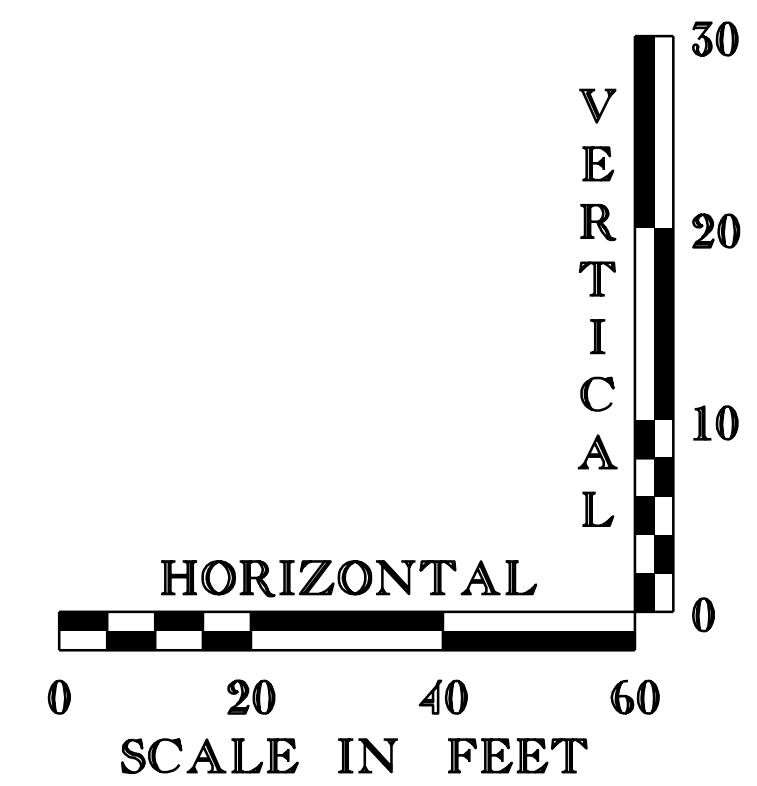
PROJECT NAME: EDEN
PROJECT NUMBER: BF 029-2(15)

FILE NAME: s2lb029temp.pro.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: J. PAQUETTE
TEMPORARY PROFILE I

PLOT DATE: 6-MAY-2024
DRAWN BY: J. PAQUETTE
CHECKED BY: D. PETERSON
SHEET 20 OF 56



TEMPORARY PROFILE 2



PROJECT NAME: EDEN
PROJECT NUMBER: BF 029-2(15)

FILE NAME: s2b029temp.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: J. PAQUETTE
TEMPORARY PROFILE 2

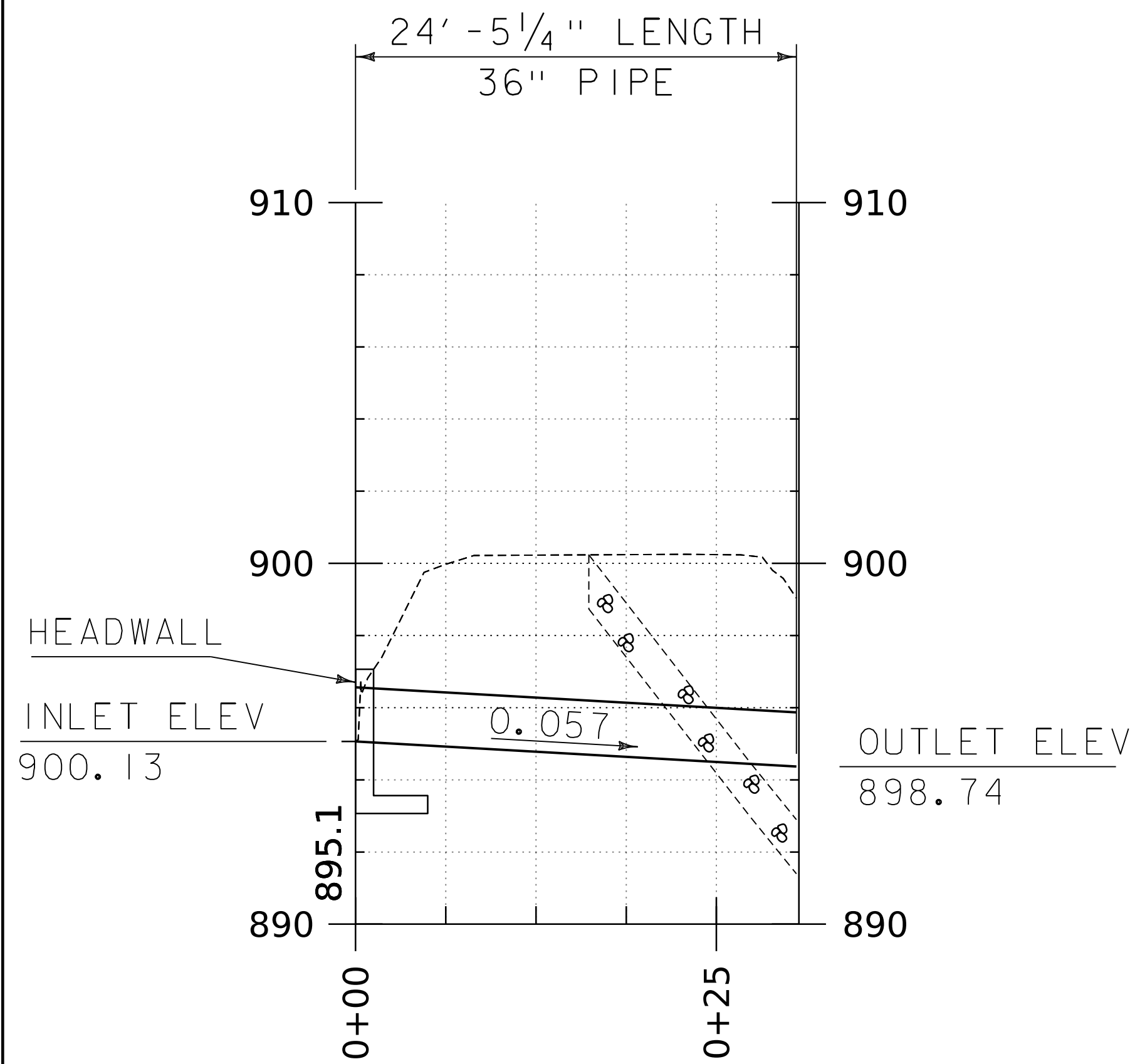
PLOT DATE: 6-MAY-2024
DRAWN BY: J. PAQUETTE
CHECKED BY: D. PETERSON
SHEET 21 OF 56

DRAINAGE DETAIL SHEET

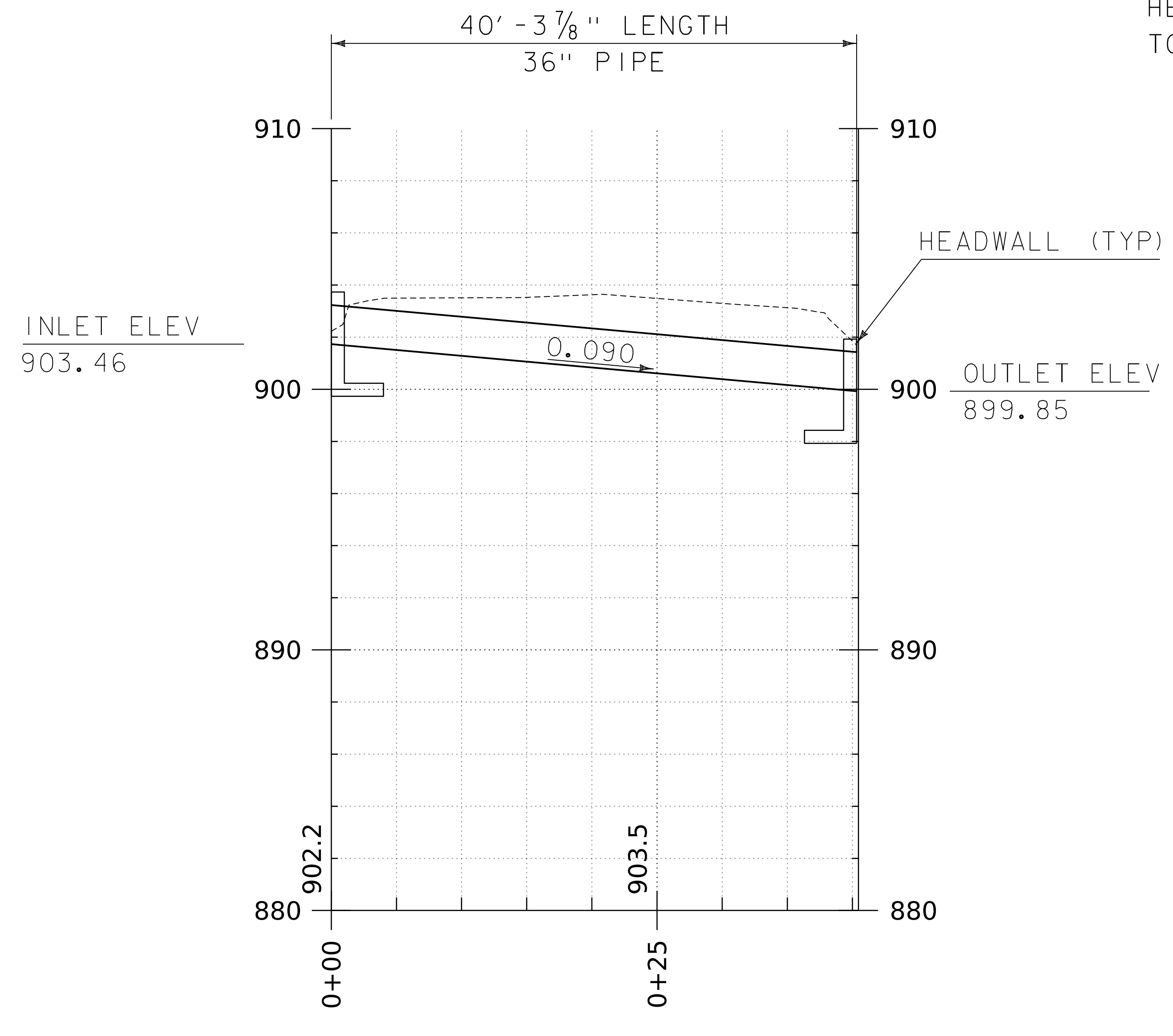
STATION	STATION	POS.	ASKEW NO. DEG.	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE					ALLOWABLE OPTIONS								PIPE ELBOW NO. DEG.	ES EA	CB EA	PR CDD I	DEPTH DI FT	CONC CLASS B CY	REINF STEEL LBS	DI GRATE TYPE	CHAN ELEV EA	CRM CY	TRENCH EXCAVATION		COMM EXC CY	UNC CHAN EXC CY	STRUCT EXCAV CY	GRAN BK FILL STRUCT CY	GRAN BORR CY	EROS MATT SY	STONE FILL		MARKER POSTS		REMARKS				
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	EARTH CY	ROCK CY	CY	CY	CY											CY	CY							CY	CY	CY	CY		CY	LT EA	RT EA	
61+58.17 RT	61+82.44 RT	①		X	X	X						18	40					X									3	300																						NEW 18" CPEP PIPE AND HEADWALL
63+36.77 RT	63+76.21 RT	②		X	X	X	X					18	25					X									5	500																					NEW 18" CPEP PIPE AND HEADWALLS	
63+52.40 RT	63+83.99 RT	①		X	X	X						18	31																																		REMOVE AND DISPOSE EXISTING 18" RCP PIPE AND HEADWALLS			
63+36.01 RT	63+77.15 RT	②		X	X	X	X					18	41																																		REMOVE AND DISPOSE EXISTING 18" RCP PIPE AND HEADWALLS			
TOTALS												65															8	800																						

NOTE:

HEADWALLS SHALL CONFORM
TO STANDARD D-33



STA 61+58.17 RT - STA 61+82.44 RT

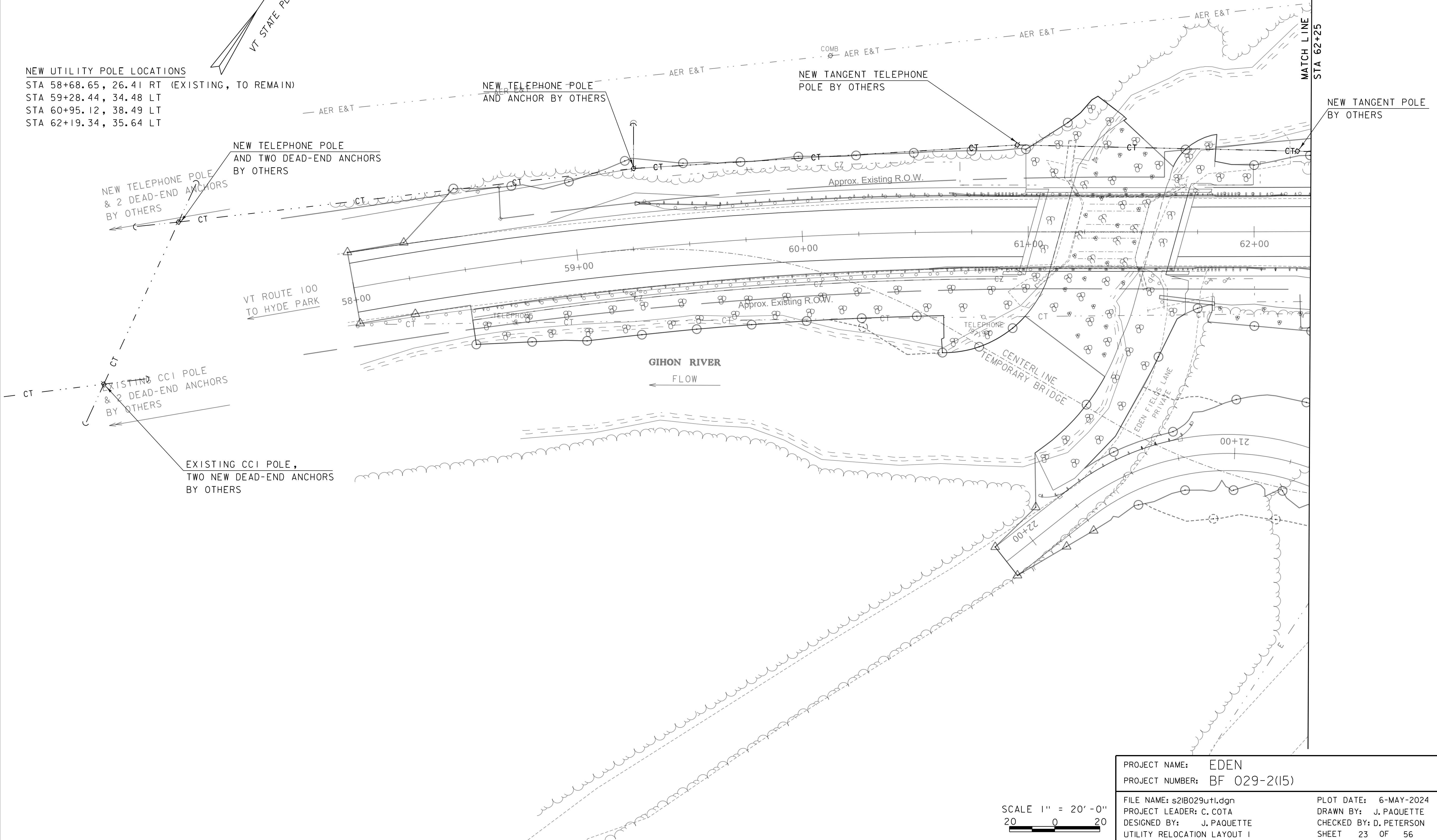
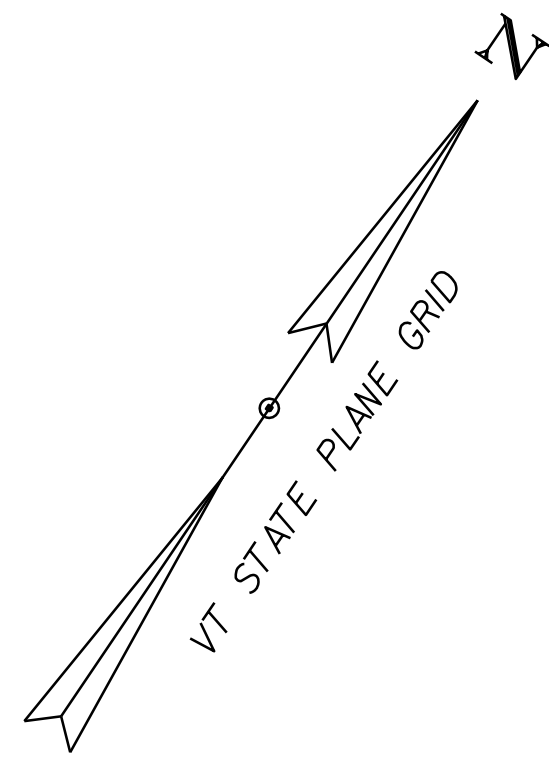


STA 63+36.77 RT - STA 63+76.21 RT

PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-02(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2b029drain.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 22 OF 56
DESIGNED BY: J. PAQUETTE	
DRAINAGE SUMMARY	

NEW UTILITY POLE LOCATIONS

- STA 58+68.65, 26.41 RT (EXISTING, TO REMAIN)
- STA 59+28.44, 34.48 LT
- STA 60+95.12, 38.49 LT
- STA 62+19.34, 35.64 LT



NEW TELEPHONE POLE AND TWO DEAD-END ANCHORS BY OTHERS

NEW TELEPHONE POLE AND ANCHOR BY OTHERS

NEW TANGENT TELEPHONE POLE BY OTHERS

NEW TANGENT POLE BY OTHERS

NEW TELEPHONE POLE & 2 DEAD-END ANCHORS BY OTHERS

EXISTING CCI POLE & 2 DEAD-END ANCHORS BY OTHERS

EXISTING CCI POLE, TWO NEW DEAD-END ANCHORS BY OTHERS

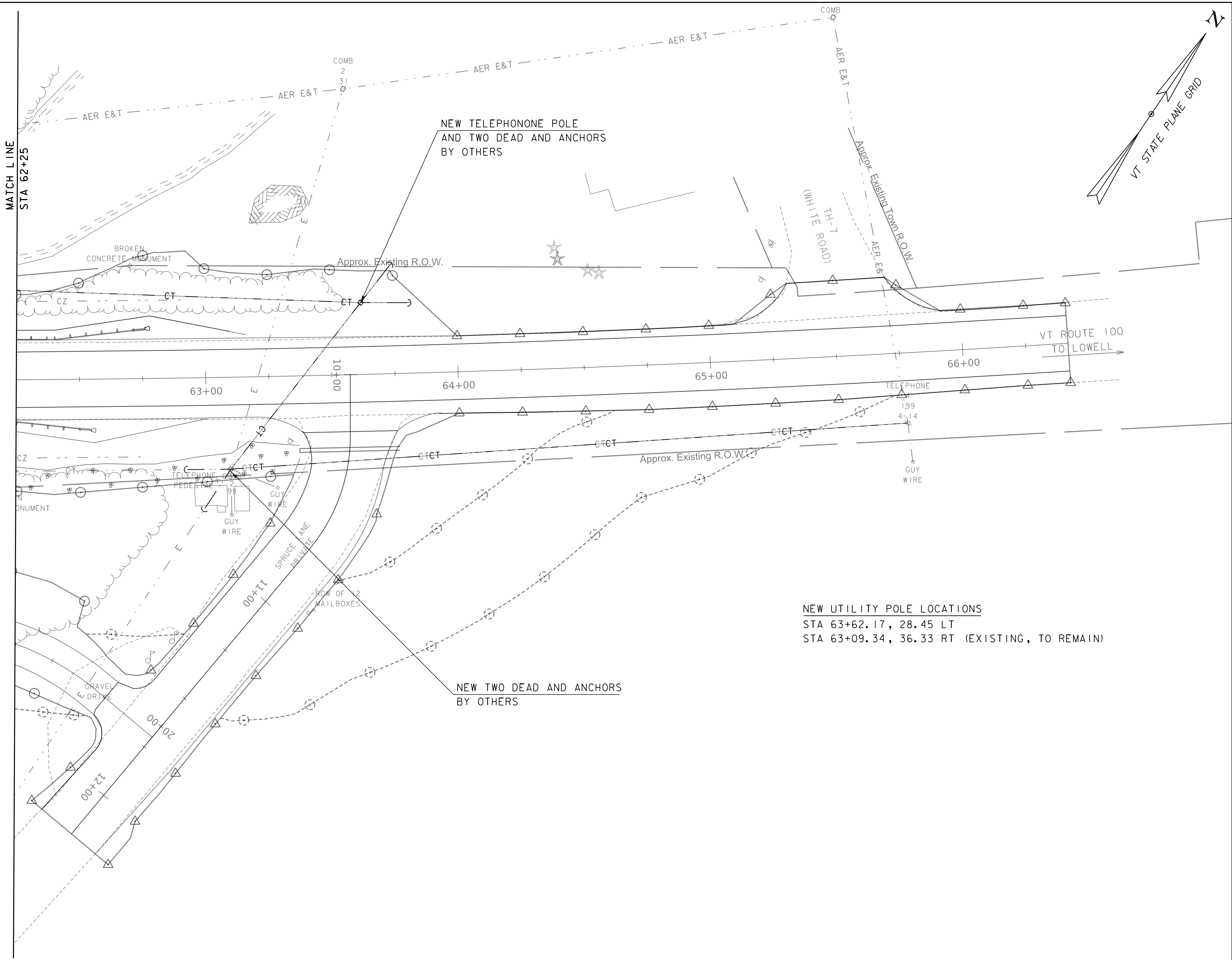
VT ROUTE 100 TO HYDE PARK

GIHON RIVER
FLOW

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

MATCH LINE
STA 62+25

PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2IB029uti.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	UTILITY RELOCATION LAYOUT 1	SHEET 23 OF 56
DESIGNED BY:	J. PAQUETTE		



NEW UTILITY POLE LOCATIONS
 STA 63+62.17, 28.45 LT
 STA 63+09.34, 36.33 RT (EXISTING, TO REMAIN)

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

PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2IB029uti.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 24 OF 56
DESIGNED BY: J. PAQUETTE	
UTILITY RELOCATION LAYOUT 2	

SOIL CLASSIFICATION

AASHTO

- A1 Gravel and Sand
- A3 Fine Sand
- A2 Silty or Clayey Gravel and Sand
- A4 Silty Soil - Low Compressibility
- A5 Silty Soil - Highly Compressible
- A6 Clayey Soil - Low Compressibility
- A7 Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

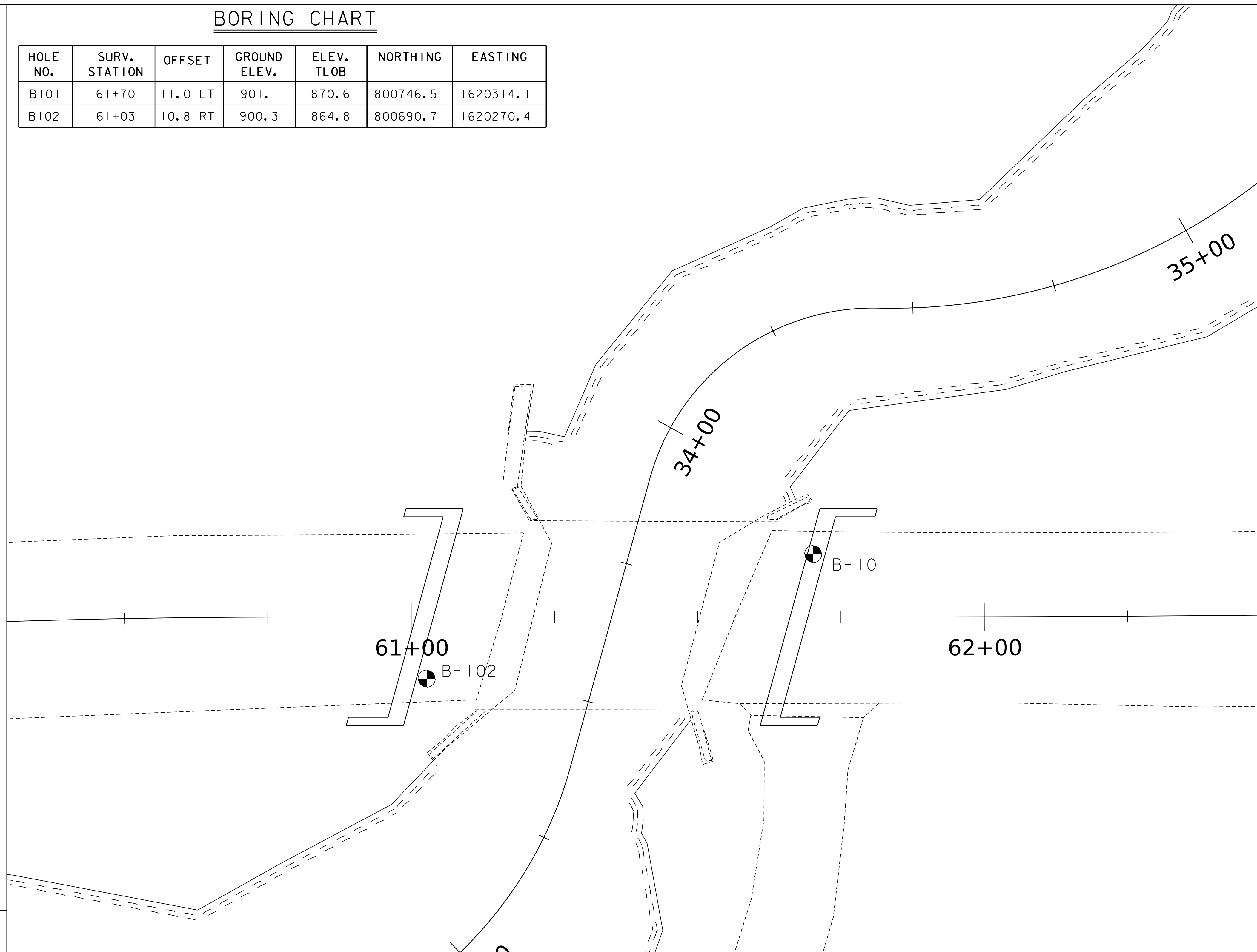
- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊗ Auger Boring
- ⊙ Rod Sounding
- S Sample
- N Standard Penetration Test
- Blow Count Per Foot For:
 - 2" O.D. Sampler
 - 1 3/8" I.D. Sampler
- Hammer Weight Of 140 Lbs.
- Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- B Blast
- DC Diamond Core
- MD Mud Drill
- WA Wash Ahead
- HSA Hollow Stem Auger
- AX Core Size 1 1/8"
- BX Core Size 1 3/8"
- NX Core Size 2 1/8"
- M Double Tube Core Barrel Used
- LL Liquid Limit
- PL Plastic Limit
- PI Plasticity Index
- NP Non Plastic
- w Moisture Content (Dry Wgt. Basis)
- D Dry
- M Moist
- MTW Moist To Wet
- W Wet
- Sat Saturated
- Bo Boulder
- Gr Gravel
- Sa Sand
- Si Silt
- Cl Clay
- HP Hardpan
- Le Ledge
- NLTD No Ledge To Depth
- CNPF Can Not Penetrate Further
- TLOB Top of Ledge Or Boulder
- NR No Recovery
- Rec. Recovery
- 1/2 Rec. Percent Recovery
- ROD Rock Quality Designation
- CBR California Bearing Ratio
- < Less Than
- > Greater Than
- R Refusal (N > 100)
- VTSPG NAD83 - See Note 7

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gr'y	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

BORING CHART

HOLE NO.	SURV. STATION	OFFSET	GROUND ELEV.	ELEV. TLOB	NORTHING	EASTING
B101	61+70	11.0 LT	901.1	870.6	800746.5	1620314.1
B102	61+03	10.8 RT	900.3	864.8	800690.7	1620270.4



DEFINITIONS (AASHTO)

- BEDROCK (LEDGE)** - Rock in its native location of indefinite thickness.
- BOULDER** - A rock fragment with an average dimension > 12 inches.
- COBBLE** - Rock fragments with an average dimension between 3 and 12 inches.
- GRAVEL** - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
- SAND** - Particles of rock < 0.075" (#10 sieve) and > 0.0025" (#200 sieve).
- SLT** - Soil < 0.0025" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY** - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
- VARVED** - Alternate layers of silt and clay.
- HARDPAN** - Extremely dense soil, cemented layer, not softened when wet.
- MUCK** - Soft organic soil (containing > 10% organic material).
- MOISTURE CONTENT** - Weight of water divided by dry weight of soil.
- FLOWING SAND** - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
- STRIKE** - Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP** - Inclination of bed with a horizontal plane.

GENERAL NOTES

- The subsurface explorations shown herein were made between 08/20/2020 and 09/01/2020 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

SCALE 1" = 10' - 0"

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 PROJECT NUMBER: BF 029-2(15)

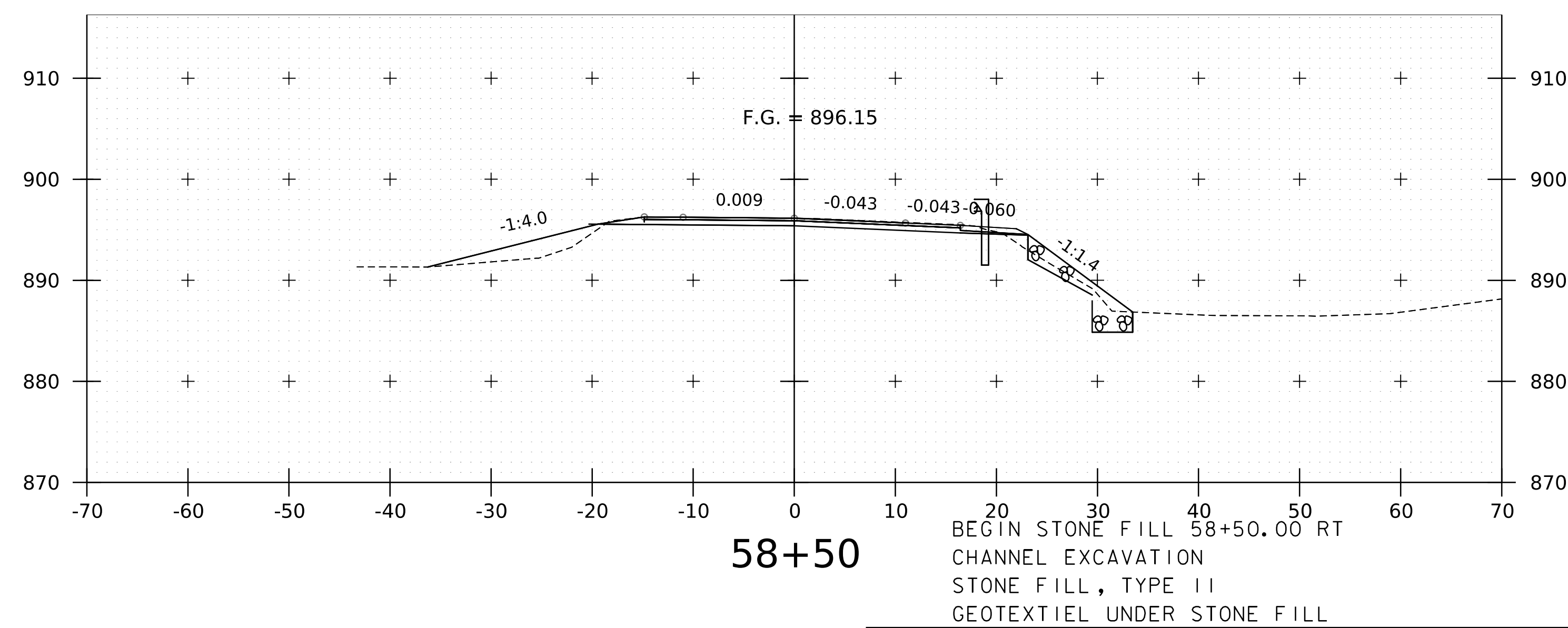
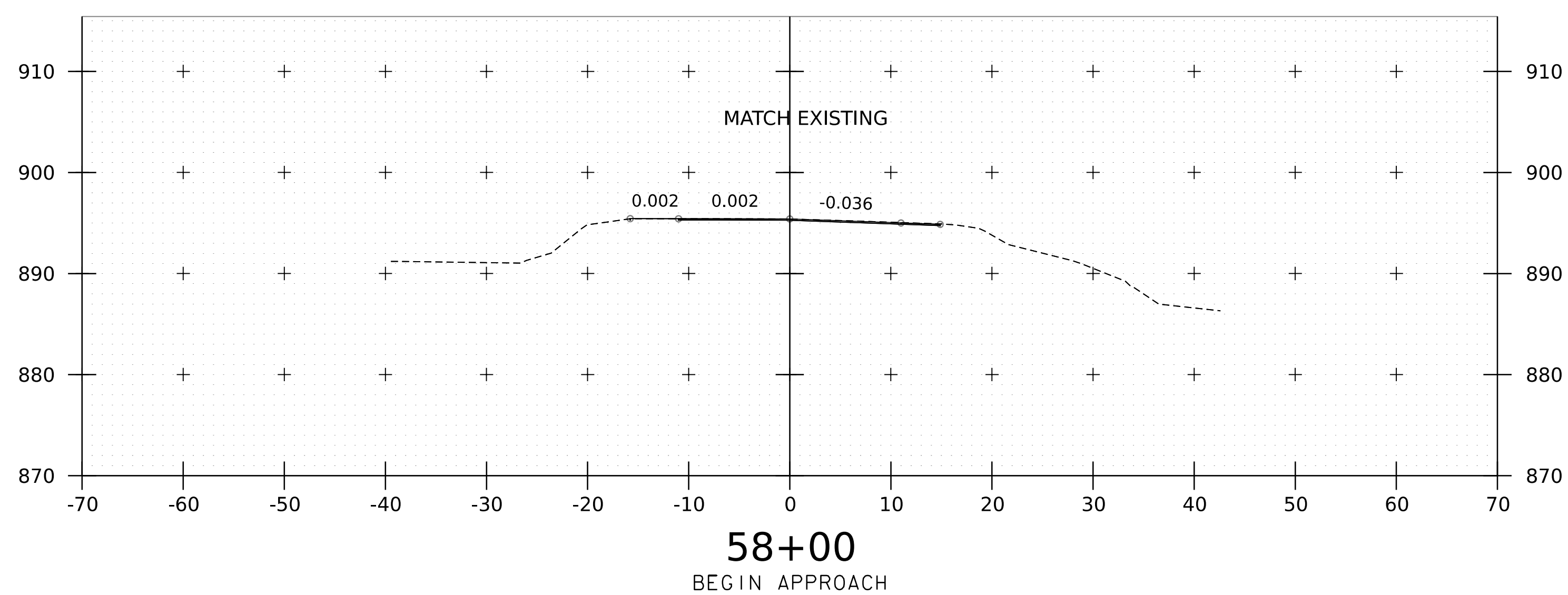
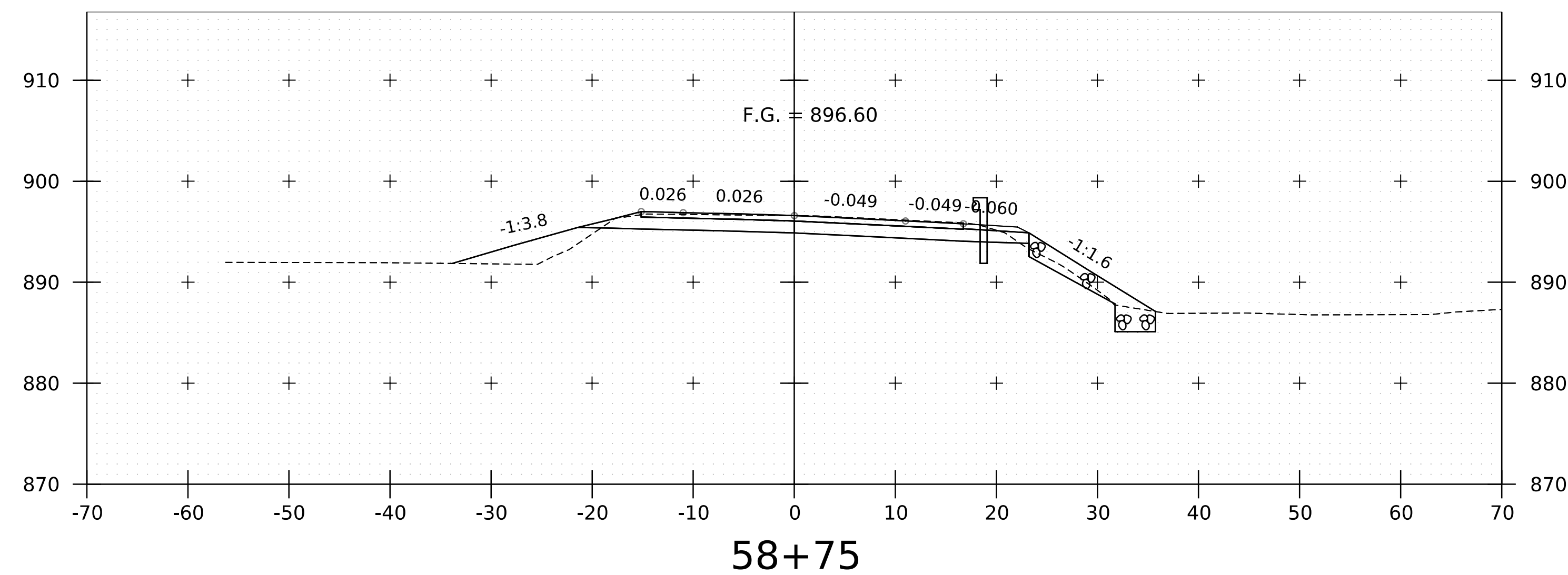
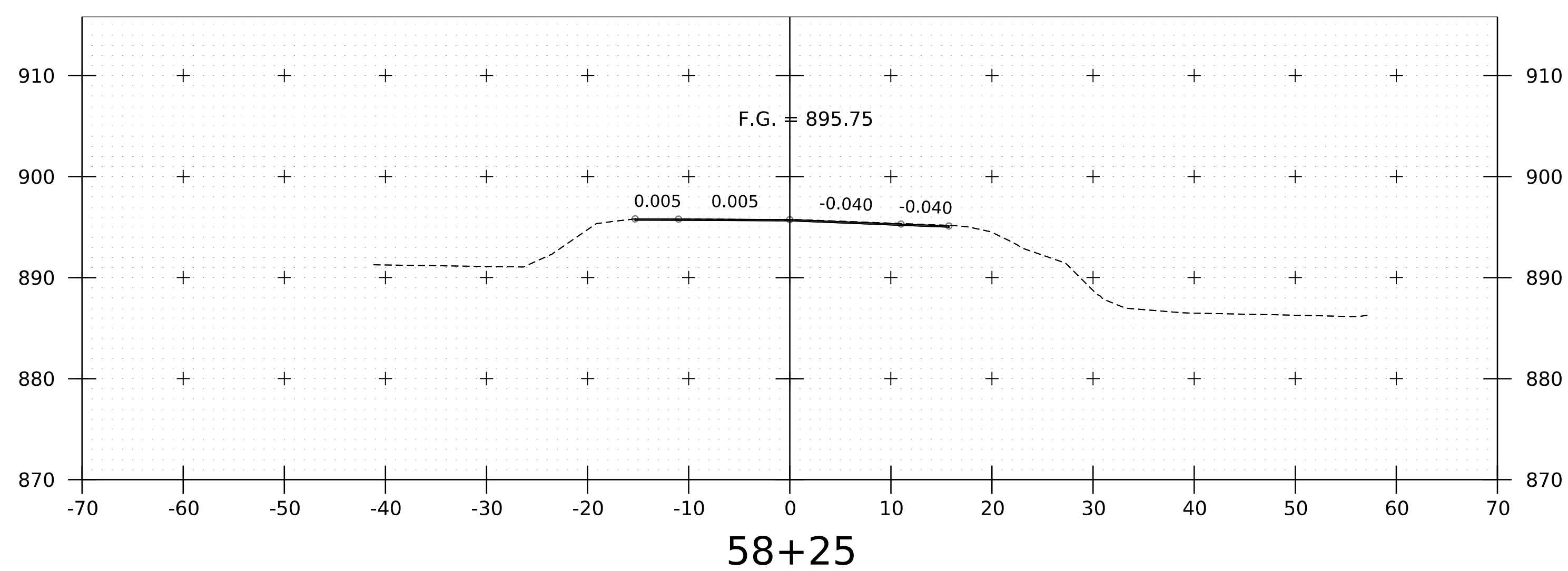
FILE NAME: s2b029borings.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 BORING INFORMATION

PLOT DATE: 6-MAY-2024
 DRAWN BY: J. PAQUETTE
 CHECKED BY: D. PETERSON
 SHEET 25 OF 56

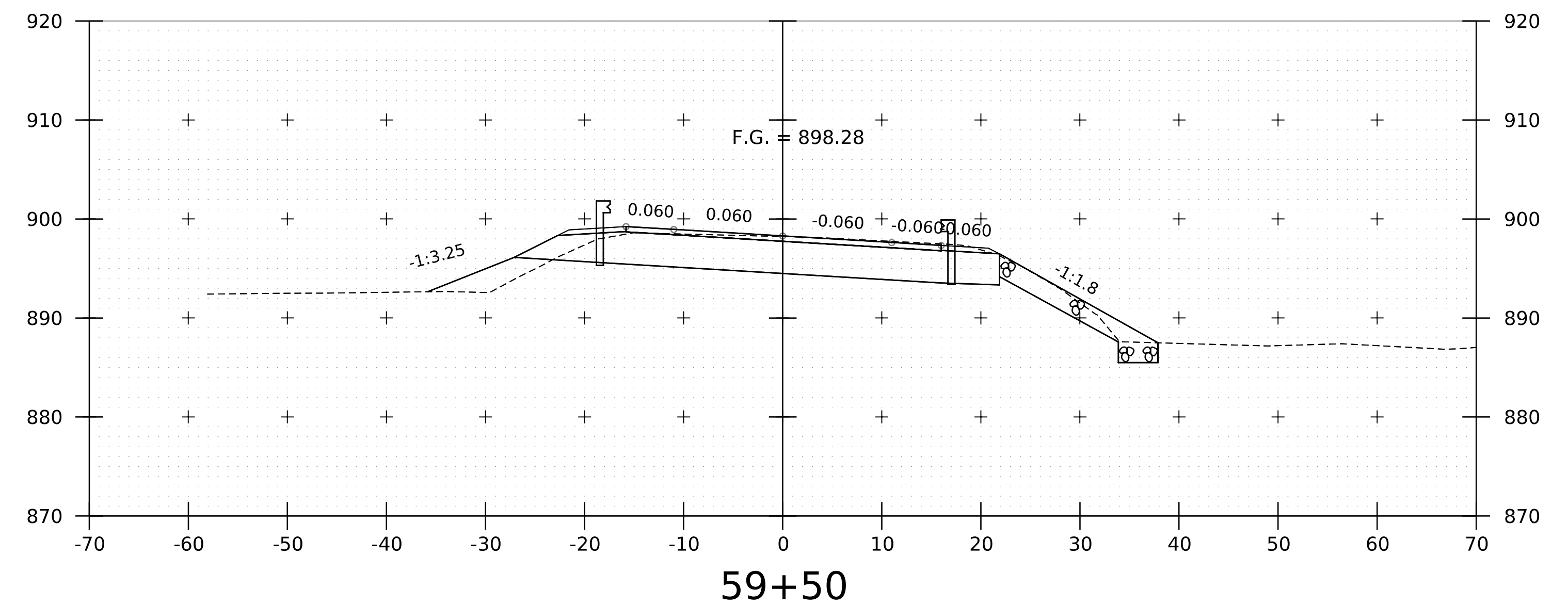
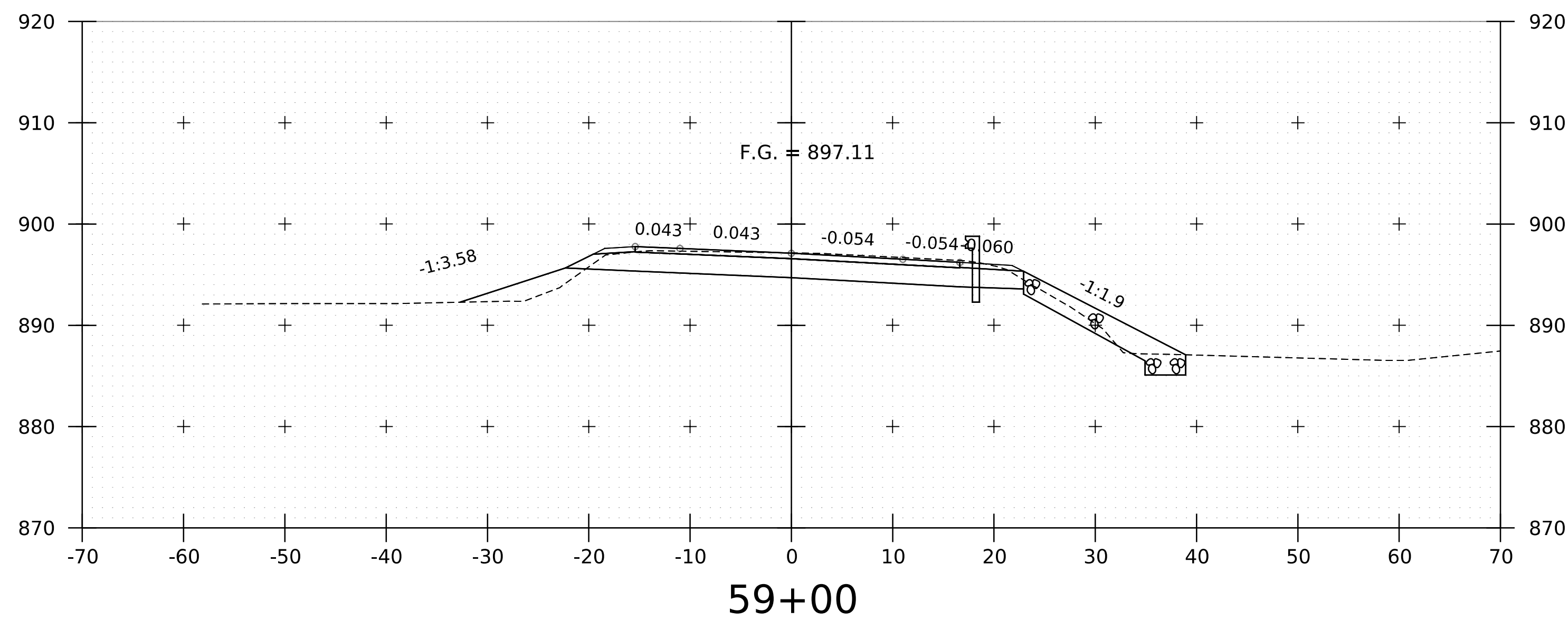
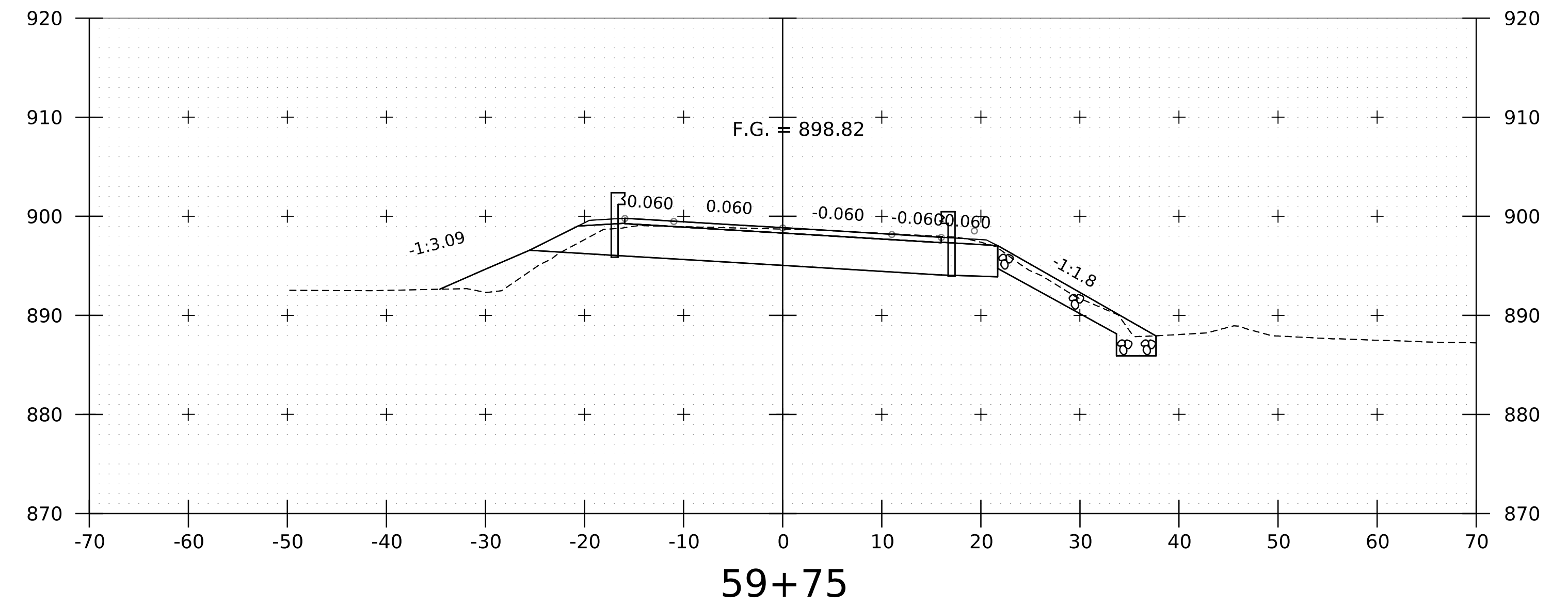
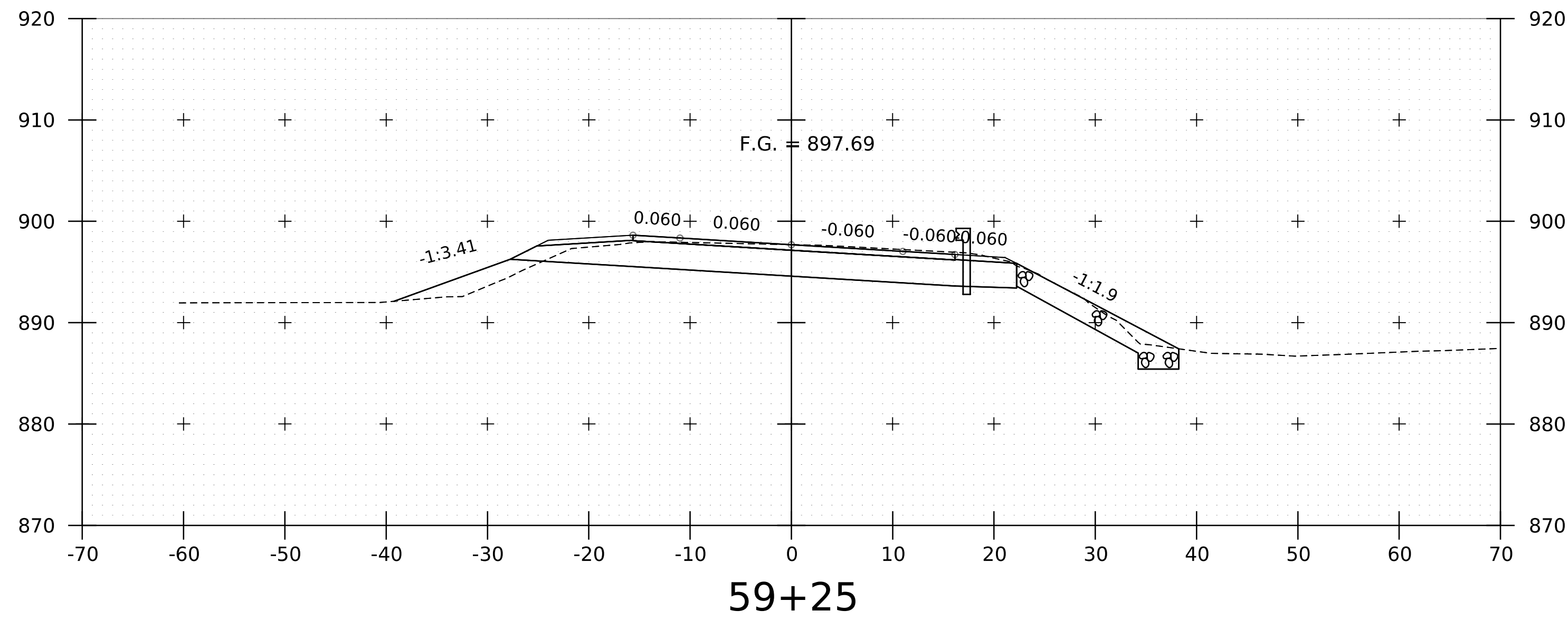
STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101						
		Eden BF 029-2(15) VT Route 100 Bridge No. 220		Page No.: 1 of 1						
				Pin No.: 21b029						
				Checked By: END						
Boring Crew: <u>Brochu, Arles, Emerson</u>		Casing Sampler		Groundwater Observations						
Date Started: <u>6/22/21</u> Date Finished: <u>6/23/21</u>		Type: <u>WASH BORE SS</u>		Date Depth Notes						
VTSPG NAD83: <u>N 800746.50 ft E 1620314.10 ft</u>		I.D.: <u>4 in 1.5 in</u>		06/22/21 8.5 WT After Drilling						
Station: <u>61+91</u> Offset: <u>-11.10</u>		Hammer Wt: <u>N.A. 140 lb.</u>		06/23/21 11.3 WT Before Drilling						
Ground Elevation: <u>901.1 ft</u>		Hammer Fall: <u>N.A. 30 in.</u>								
		Hammer/Rod Type: <u>Auto/AWJ</u>								
		Rig: <u>CME 55 TRACK</u> $C_F = 1.56$								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt 0.0'-0.8'				14-51-40-R@0" (91)				
		Visual Description: Silty Gravelly Sand, brn, Moist, Rec. = 0.6 ft, Field Note: rollercone cleanout 3.7'-5.0'				5-3-3-4 (6)	12.3	44.0	44.8	11.2
		A-1-b, GrSa, brn, Moist, Rec. = 0.3 ft, Field Note: rollercone cleanout 8.9'-10.0"				7-11-14-8 (25)				
10		Visual Description: Sand, brn, Moist, Rec. = 0.3 ft, Field Note: rock in end of sampler. Rollercone cleanout 13.0'-15.0'				8-5-5-4 (10)				
		Visual Description: Silt, gry-brn, Moist, Rec. = 0.9 ft, Field Note: NXDC cleanout				1-1-WH-1 (1)	28.2	1.1	53.3	45.6
20		A-4, SaSi, gry-brn, Moist, Rec. = 0.7 ft, Field Note: NXDC cleanout 29.1'-30.0'				R@0"				
30		Field Note: No Recovery, 10 blows no movement				Top of Bedrock @ 30.5 ft				
		30.5 ft - 35.5 ft, Black, Highly graphitic PHYLLITE, Sub-hederal clusters and euhedral grains of sulfides are strewn throughout the sample. Quartz pegmatite is present at the top & bottom of B101. Foliation is very pronounced with a cleavage splitting along graphitic layers. Moderately hard, Slightly to moderately weathered, Very poor rock, NXMDC, RMR=17	R-1 (unk)	58 (0)	4					
		35.5 ft - 38.5 ft, Black, Highly graphitic PHYLLITE, Sub-hederal clusters and euhedral grains of sulfides are strewn throughout the sample. Quartz pegmatite is present at the top & bottom of B101. Foliation is very pronounced with a cleavage splitting along graphitic layers. Moderately hard, Slightly to moderately weathered, Very poor rock, NXMDC, RMR=17	R-2 (90)	80 (0)	5					
40		Hole stopped @ 38.5 ft								
		Remarks: 1. Loss of water return @ 12' 2. Hole Collapsed @ 2.4'								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C_F is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										

STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102						
		Eden BF 029-2(15) VT Route 100 Bridge No. 220		Page No.: 1 of 1						
				Pin No.: 21b029						
				Checked By: END						
Boring Crew: <u>Judkins, Arles, Emerson, Brochu</u>		Casing Sampler		Groundwater Observations						
Date Started: <u>6/21/21</u> Date Finished: <u>6/22/21</u>		Type: <u>WASH BORE SS</u>		Date Depth Notes						
VTSPG NAD83: <u>N 800690.70 ft E 1620270.40 ft</u>		I.D.: <u>4 in 1.5 in</u>		06/22/21 11.2 WT After Drilling						
Station: <u>62+23</u> Offset: <u>10.60</u>		Hammer Wt: <u>N.A. 140 lb.</u>		06/22/21 0.6 WT Before Drilling						
Ground Elevation: <u>900.3 ft</u>		Hammer Fall: <u>N.A. 30 in.</u>								
		Hammer/Rod Type: <u>Auto/AWJ</u>								
		Rig: <u>CME 55 TRACK</u> $C_F = 1.56$								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt 0.0'-0.7'				22-16-14-22 (30)				
		Visual Description: Sandy Gravel, gry, MTW, Rec. = 1.1 ft, Field Note: rollercone cleanout 4.2'-5.0'				9-8-5-3 (13)				
		Visual Description: Gravelly Sand, gry, Moist, Rec. = 0.3 ft, Field Note: split sample				8-6-6-17 (12)	11.3	66.7	26.3	7.0
10		Visual Description: Silt, brn, Moist, Rec. = 0.3 ft, Field Note: Cleanout NXDC 9.1'-10.0'				6-6-10-8 (16)				
		A-1-a, SaGr Wood was within sample 10.5'-11', brn, Moist, Rec. = 1.0 ft, Field Note: rollercone cleanout 12'-15'				5-3-3-4 (6)				
20		Visual Description: Silty Gravelly Sand, brn, Moist, Rec. = 0.4 ft, Field Note: rollercone cleanout 18.9'-20'				12-R@6" (R)	11.9	39.0	43.6	17.4
		A-1-b, GrSa, gry, Moist, Rec. = 0.7 ft, Field Note: Refusal @ 26' 100 blows. Rollercone cleanout 28.8'-30'				23-29-R@4" (R)				
30		Visual Description: Sandy Silt, gry, Moist, Rec. = 1.9 ft, Field Note: Refusal @ 31.4' 100 blows. NXDC cleanout 31.4'-35.5'				Top of Bedrock @ 35.5 ft				
		35.5 ft - 40.5 ft, Blk-gry, Graphitic PHYLLITE, interlayered with CaCO3. Sub-hederal clusters and euhedral grains of sulfides are strewn throughout the sample. Foliation is very pronounced with a cleavage splitting along graphitic layers. The surface of these cleavage planes has very little friction. Moderately hard, Slightly weathered, Very poor rock, NXMDC, RMR = 17	R-1 (75-80)	100 (0)	4					
		40.5 ft - 45.5 ft, Blk-gry, Graphitic PHYLLITE, interlayered with CaCO3. Sub-hederal clusters and euhedral grains of sulfides are strewn throughout the sample. Foliation is very pronounced with a cleavage splitting along graphitic layers. The surface of these cleavage planes has very little friction. Moderately hard, Slightly weathered, Very poor rock, NXMDC, RMR = 17	R-2 (75-80)	100 (0)	3					
40		Hole stopped @ 45.5 ft								
		Remarks: 1. Loss of water return @ 15' 2. Hole Collapsed @ 11.4'								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C_F is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										

PROJECT NAME: EDEN
PROJECT NUMBER: BF 029-2(15)
FILE NAME: s21b029borings.dgn PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE CHECKED BY: D. PETERSON
BORING LOGS SHEET 26 OF 56

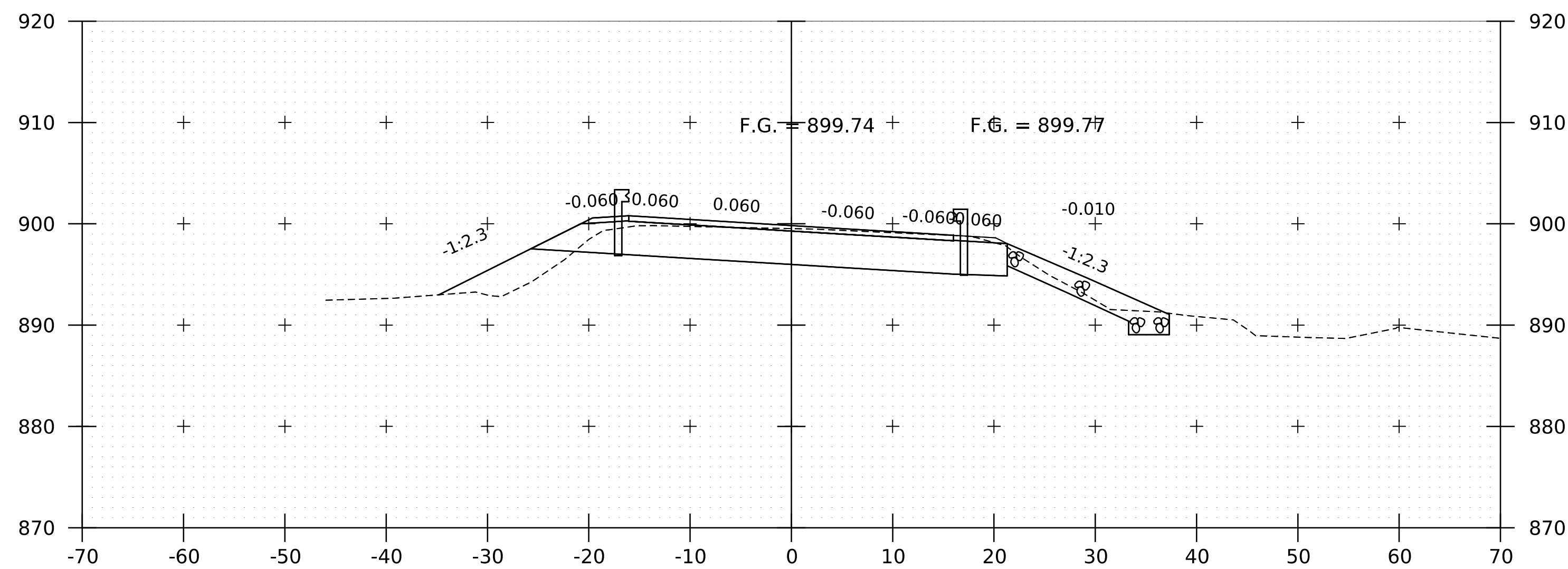


PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029VT100XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	27 OF 56
DESIGNED BY:	J. PAQUETTE		
VT 100 CROSS SECTIONS I			

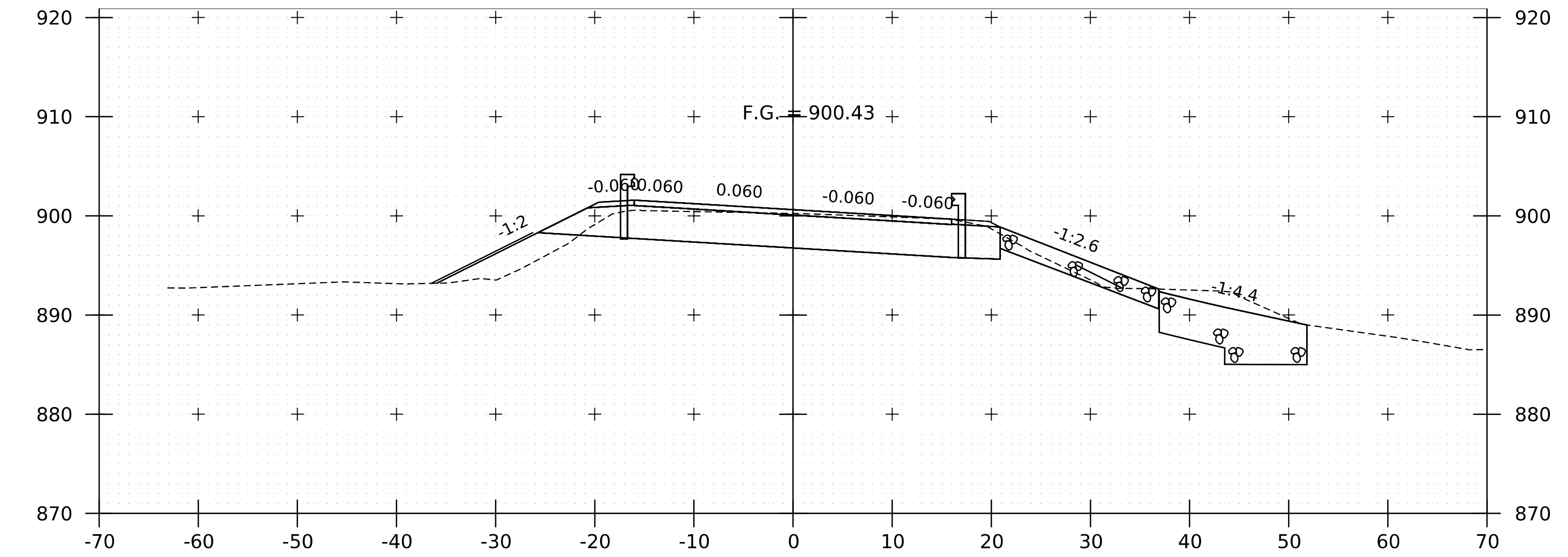


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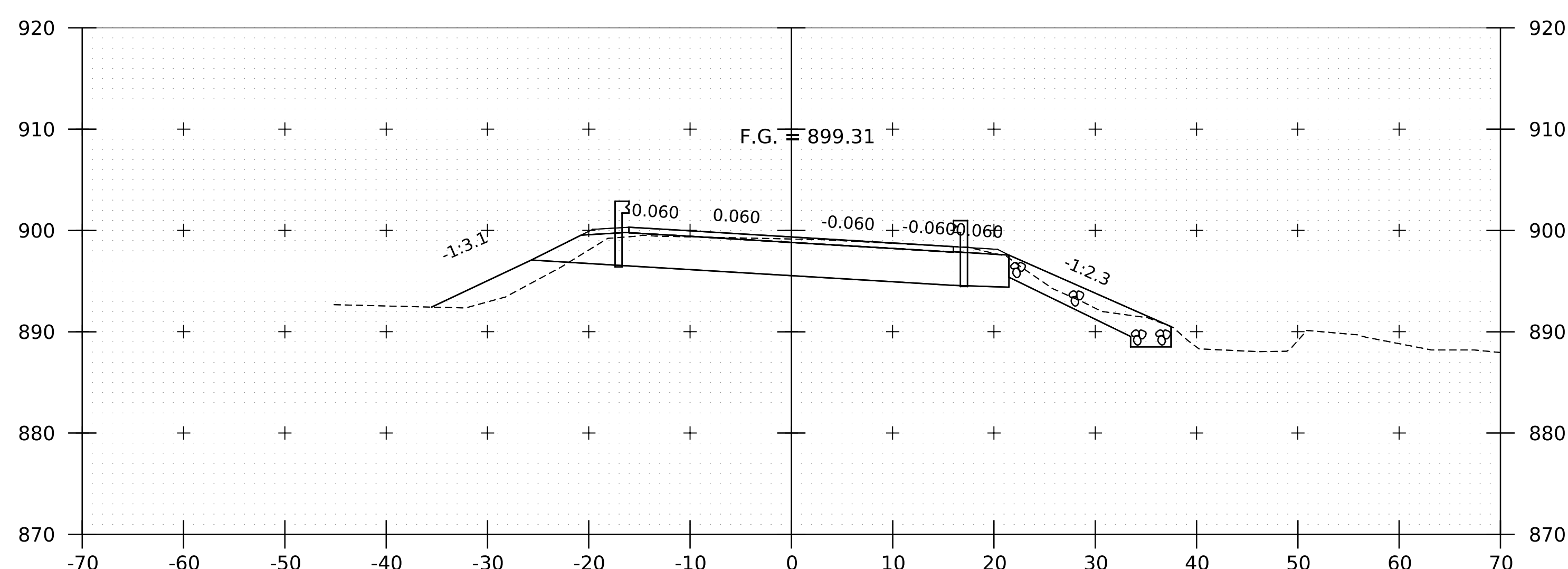
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PROJECT LEADER:	C. COTA	SHEET	28 OF 56
DESIGNED BY:	J. PAQUETTE		
VT 100 CROSS SECTIONS 2			



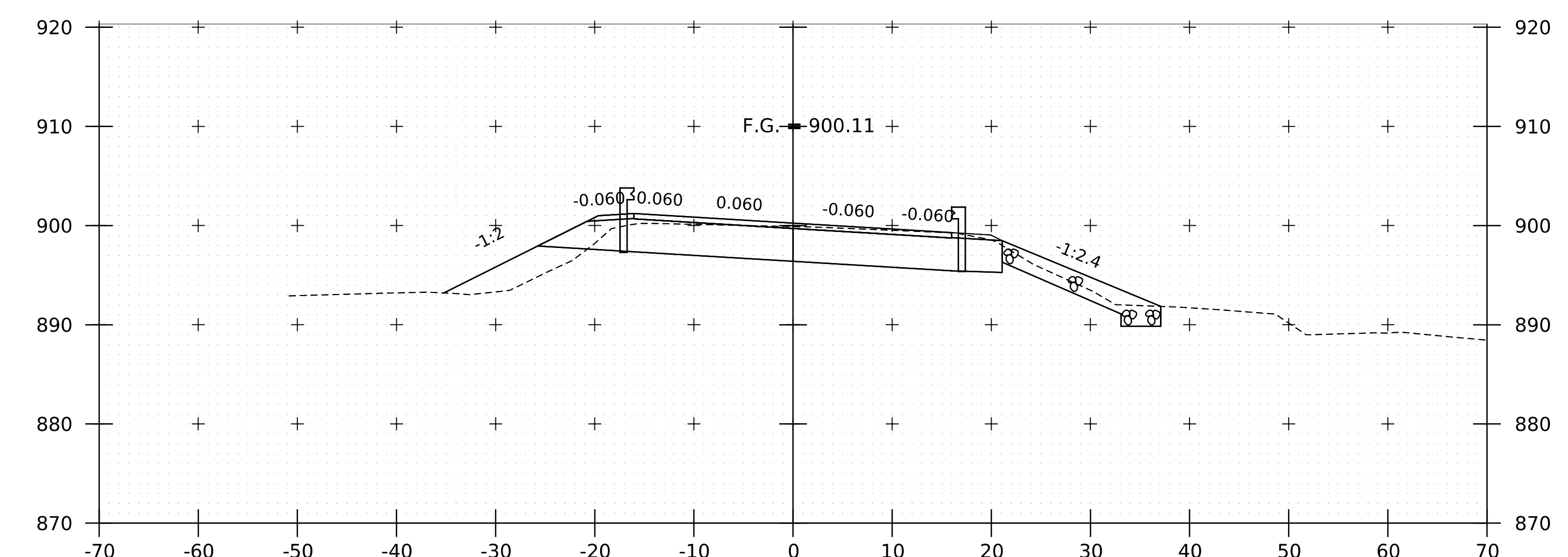
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60+75



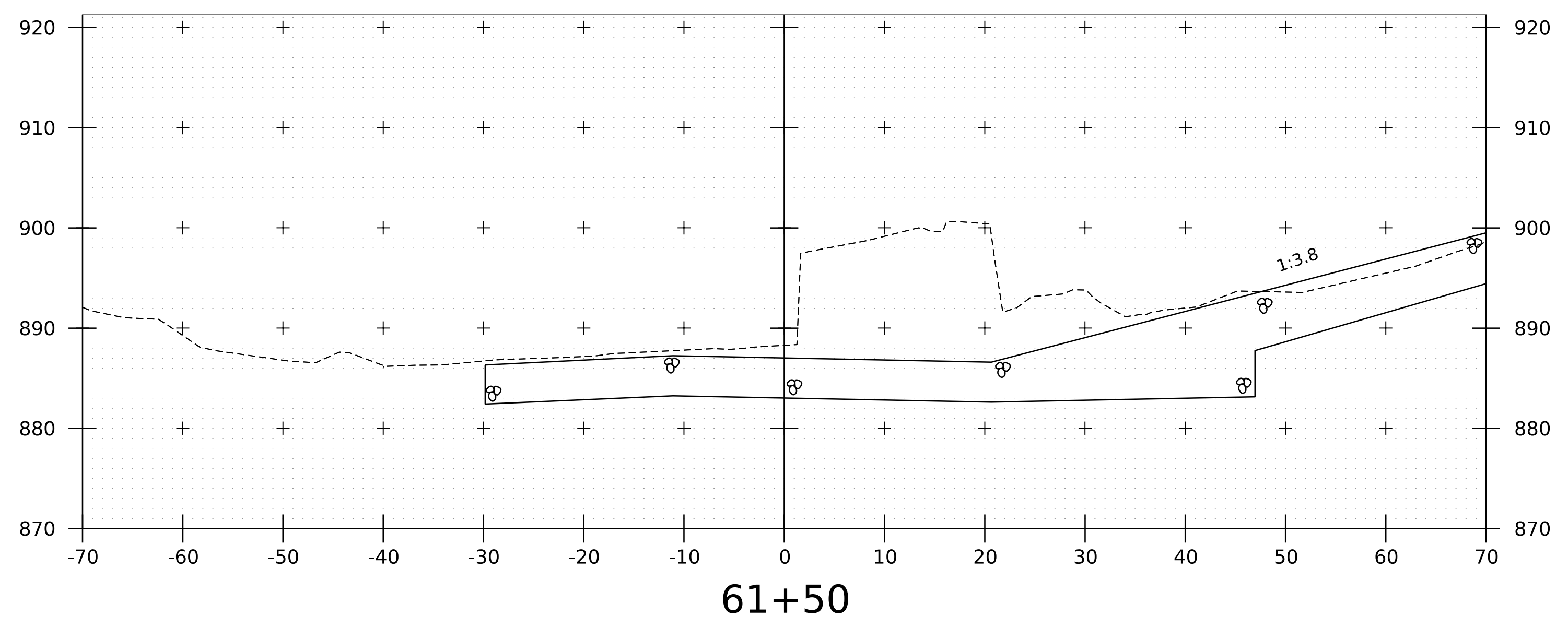
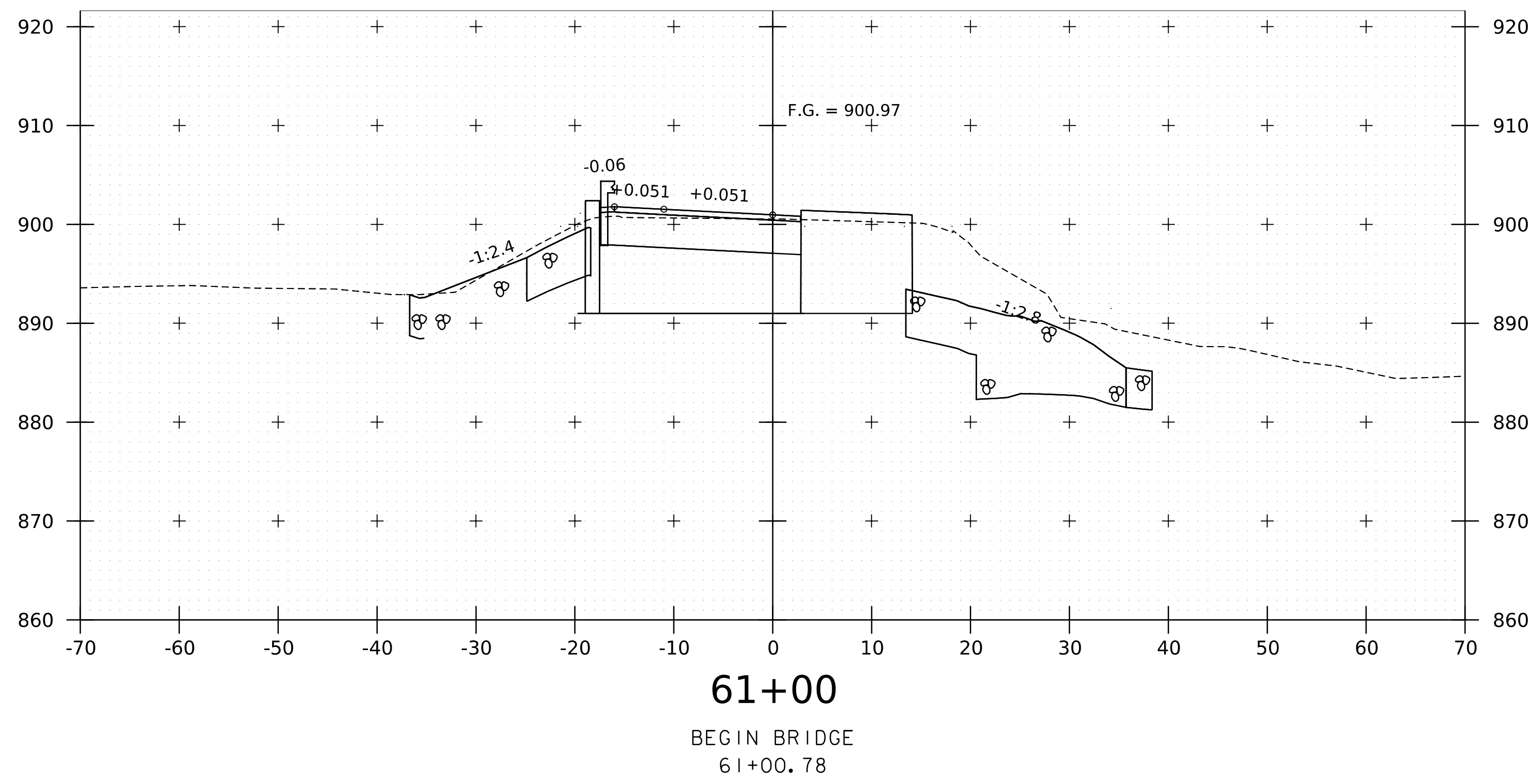
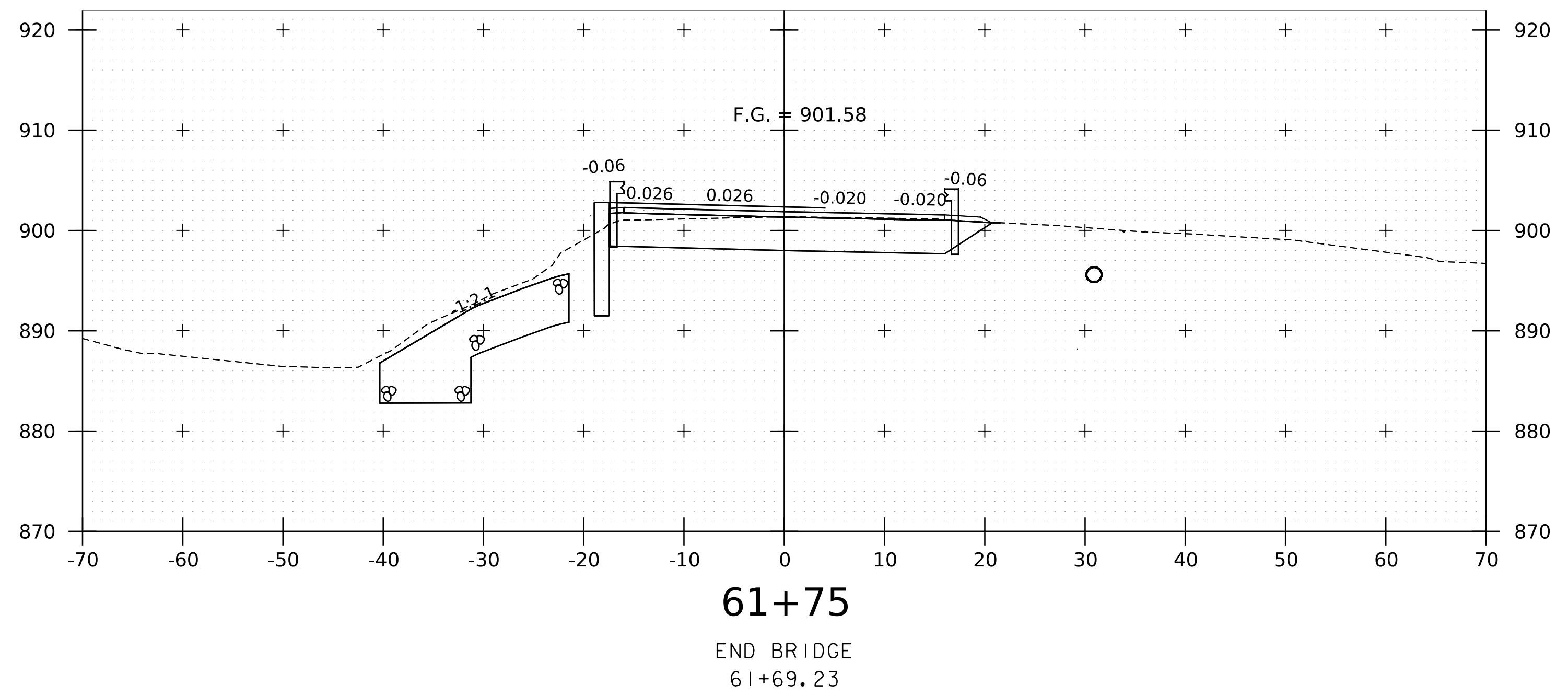
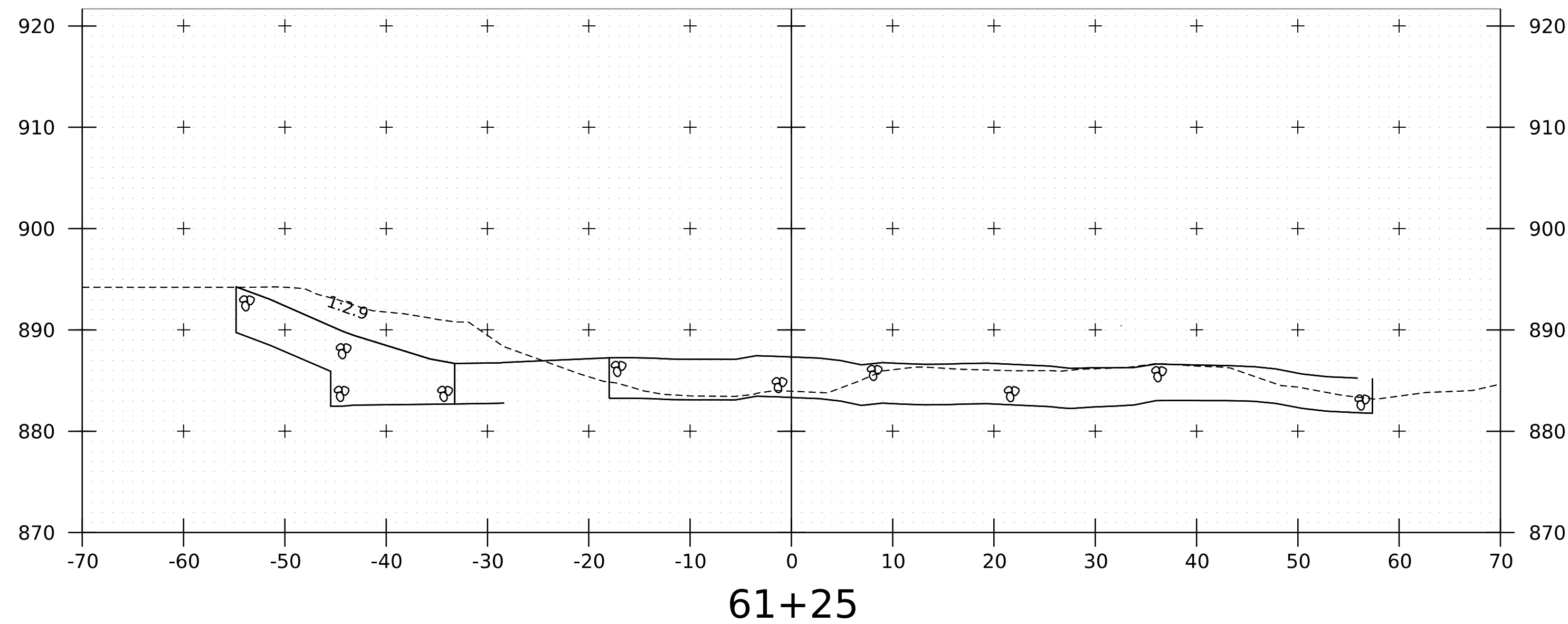
60+00



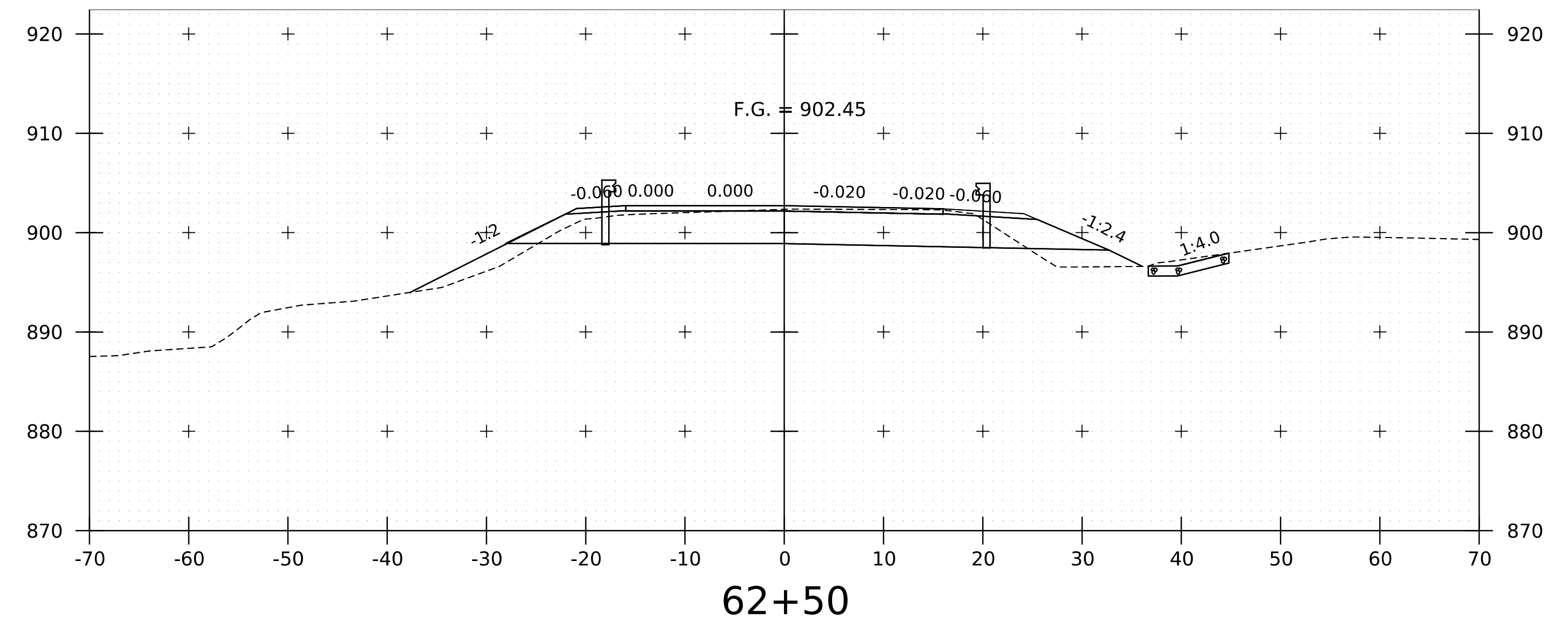
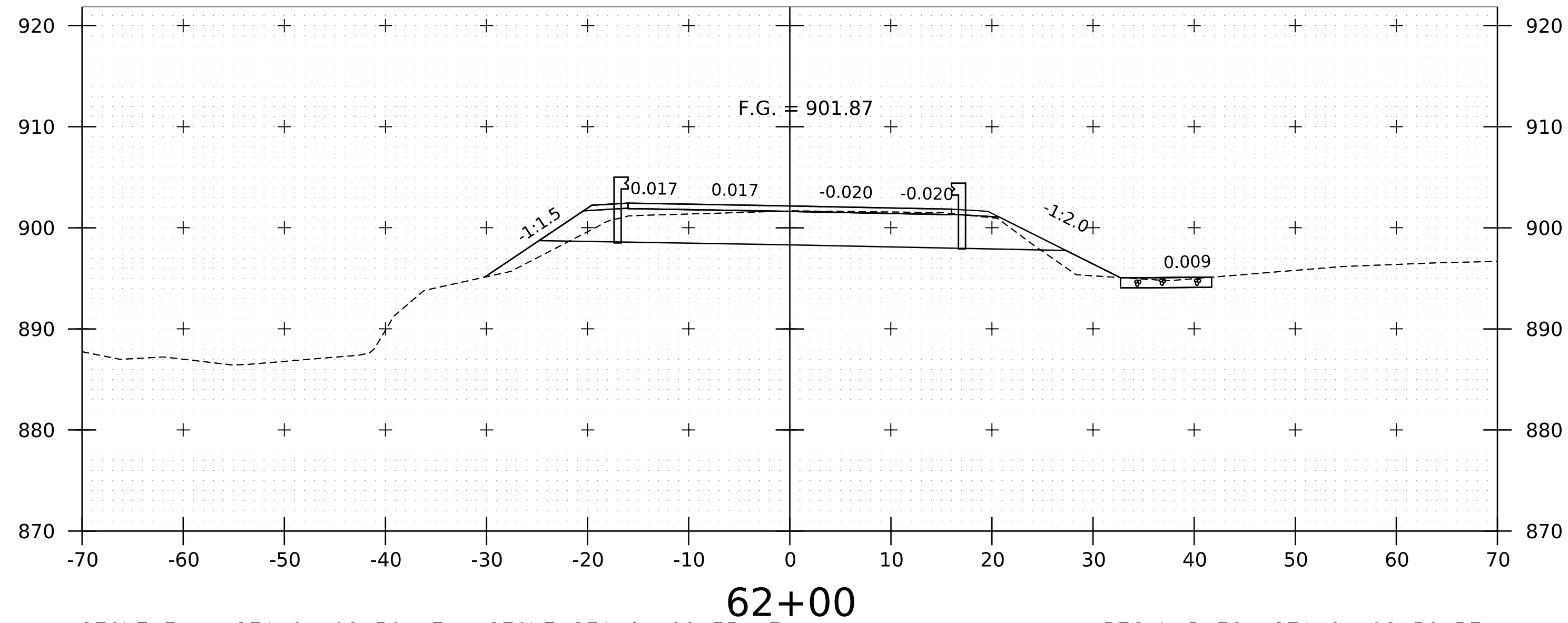
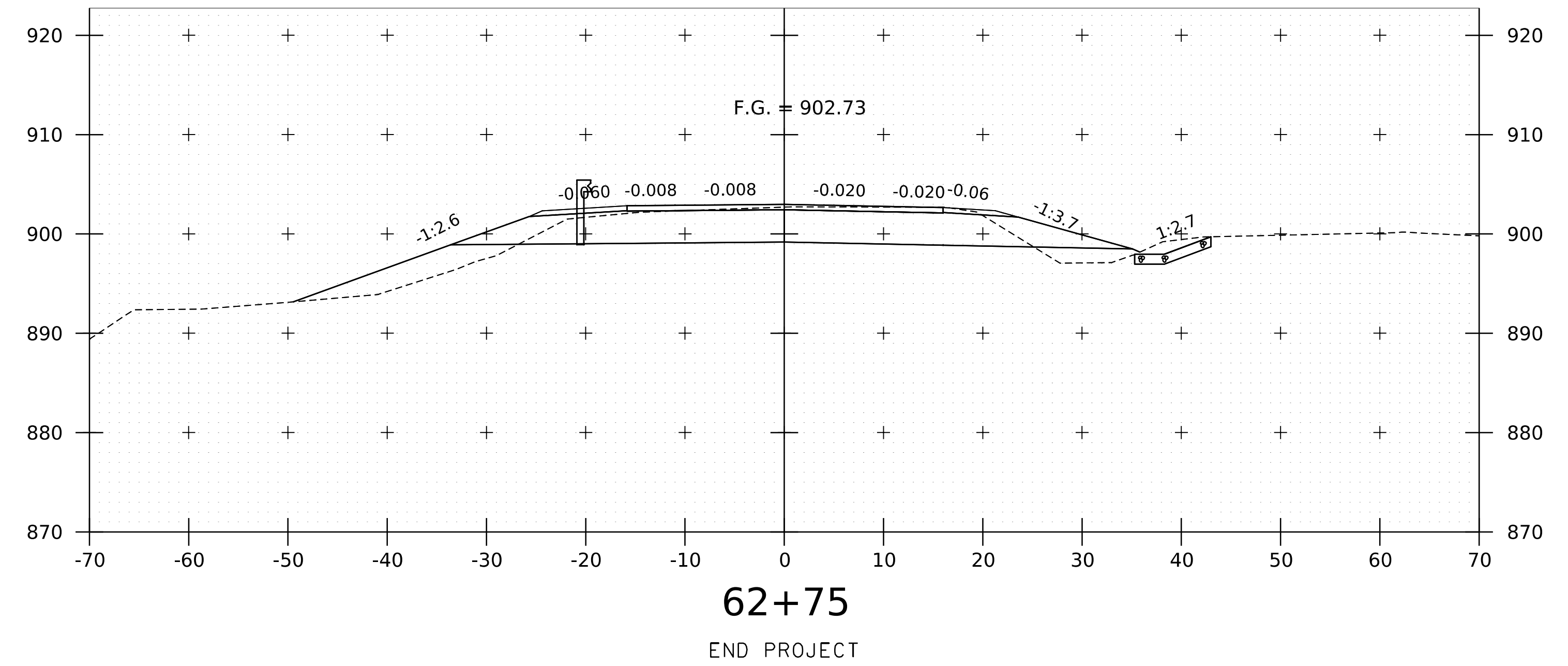
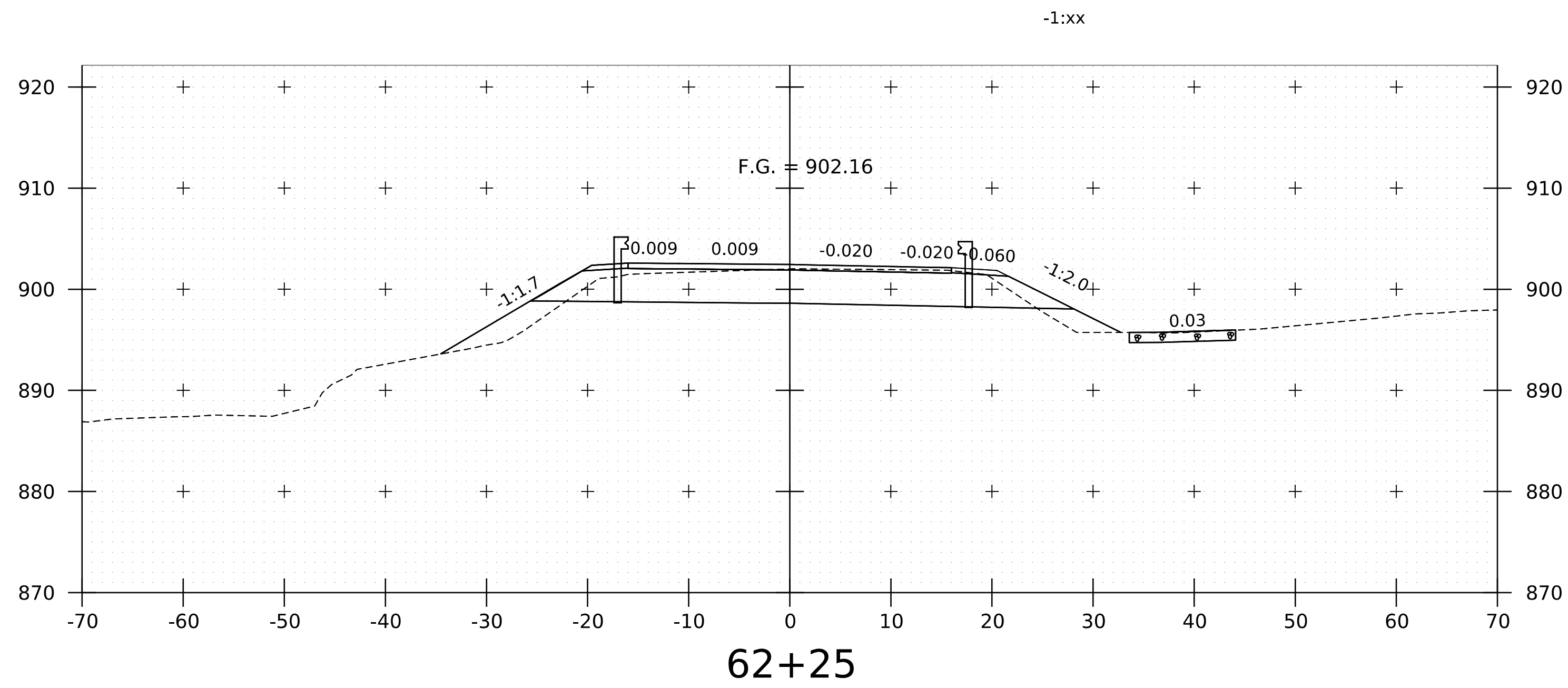
60+50

END STONE FILL STA 60+60.00 RT
 CHANNEL EXCAVATION
 STONE FILL, TYPE II
 GEOTEXTILE UNDER STONE FILL

PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029VT100XS.dgn	DESIGNED BY:	J. PAQUETTE
PROJECT LEADER:	C. COTA	CHECKED BY:	D. PETERSON
VT 100 CROSS SECTIONS 3		SHEET	29 OF 56



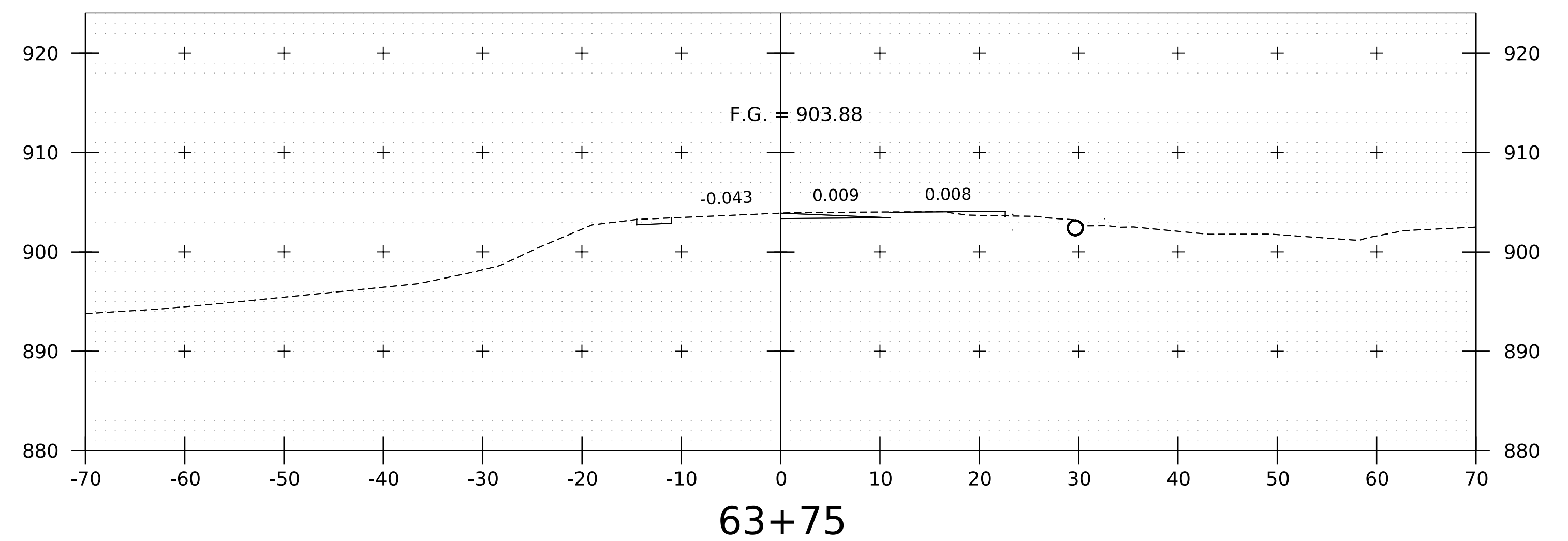
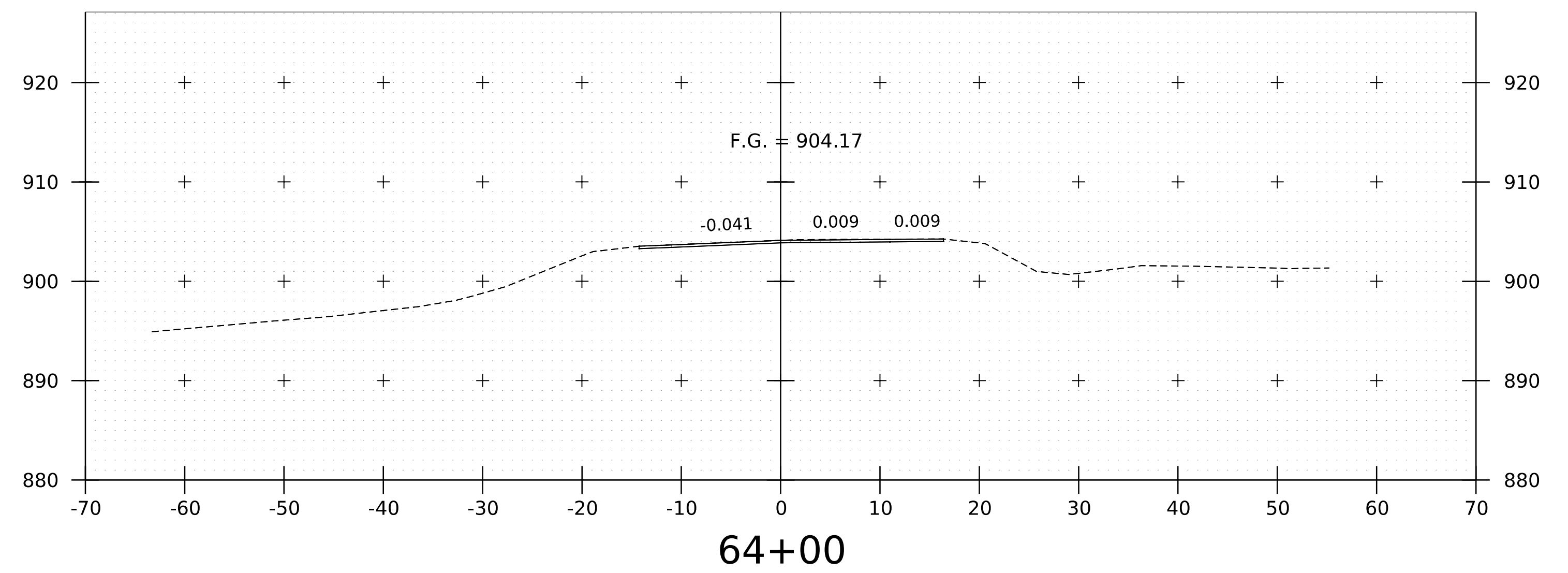
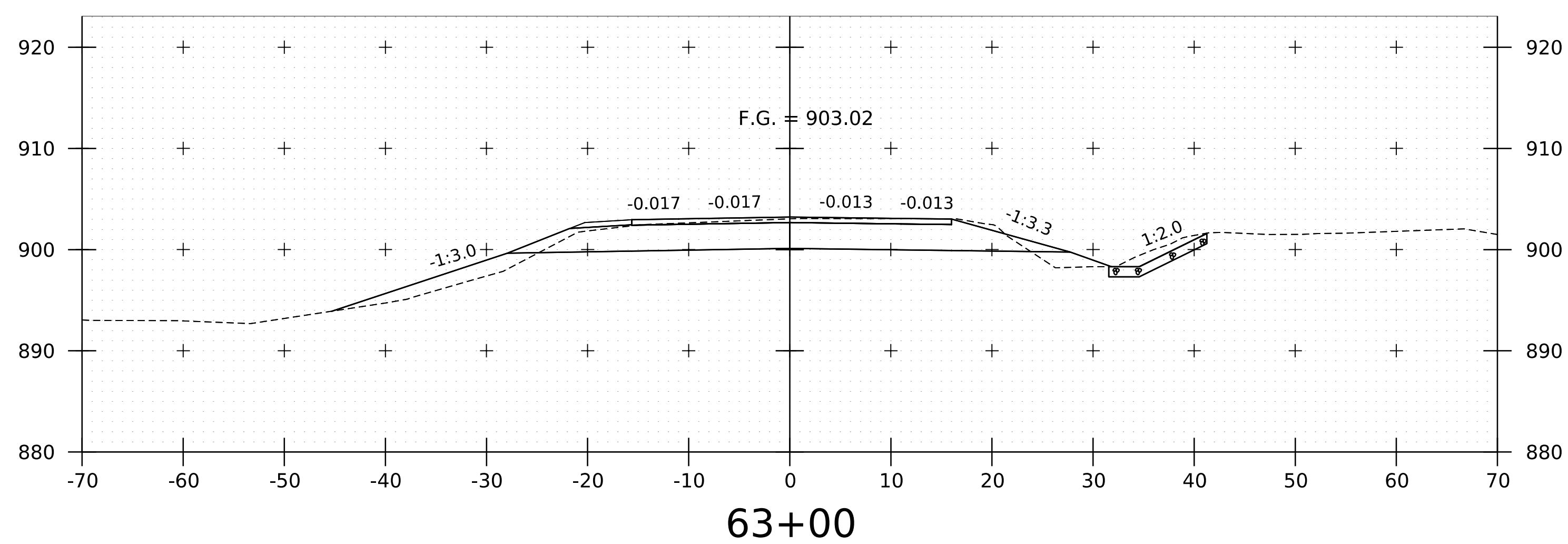
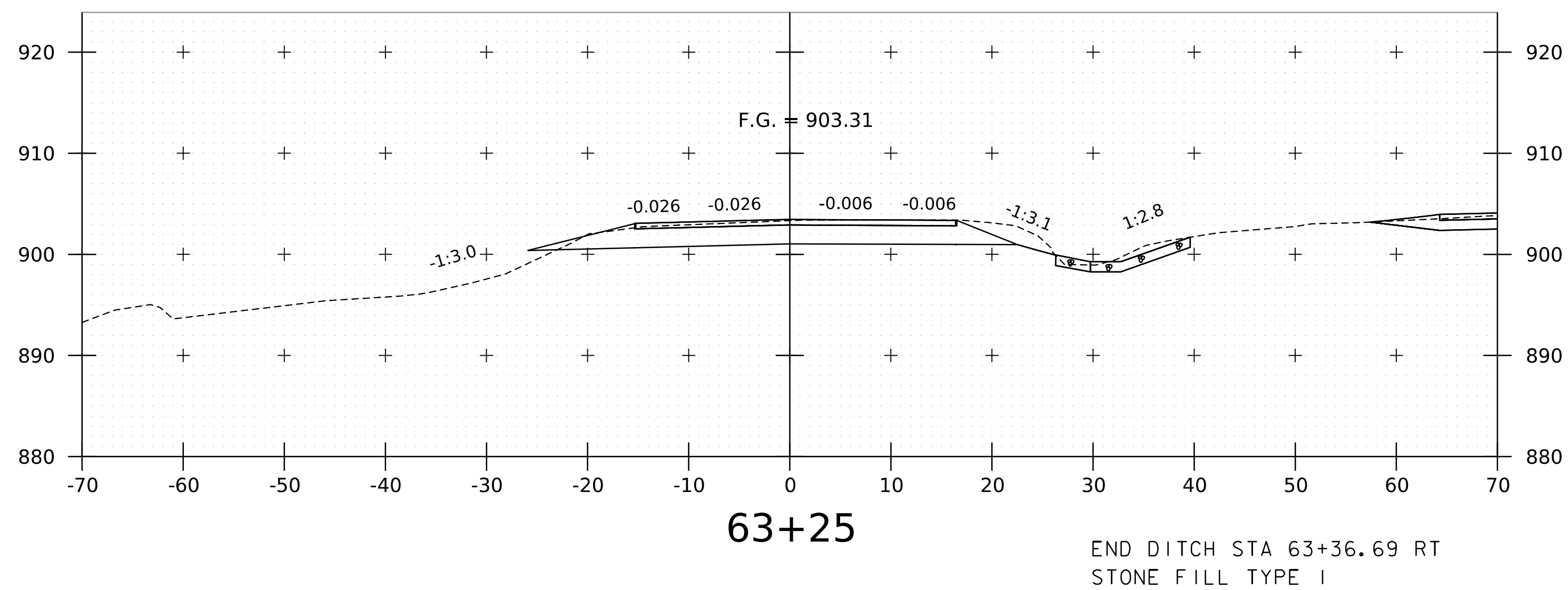
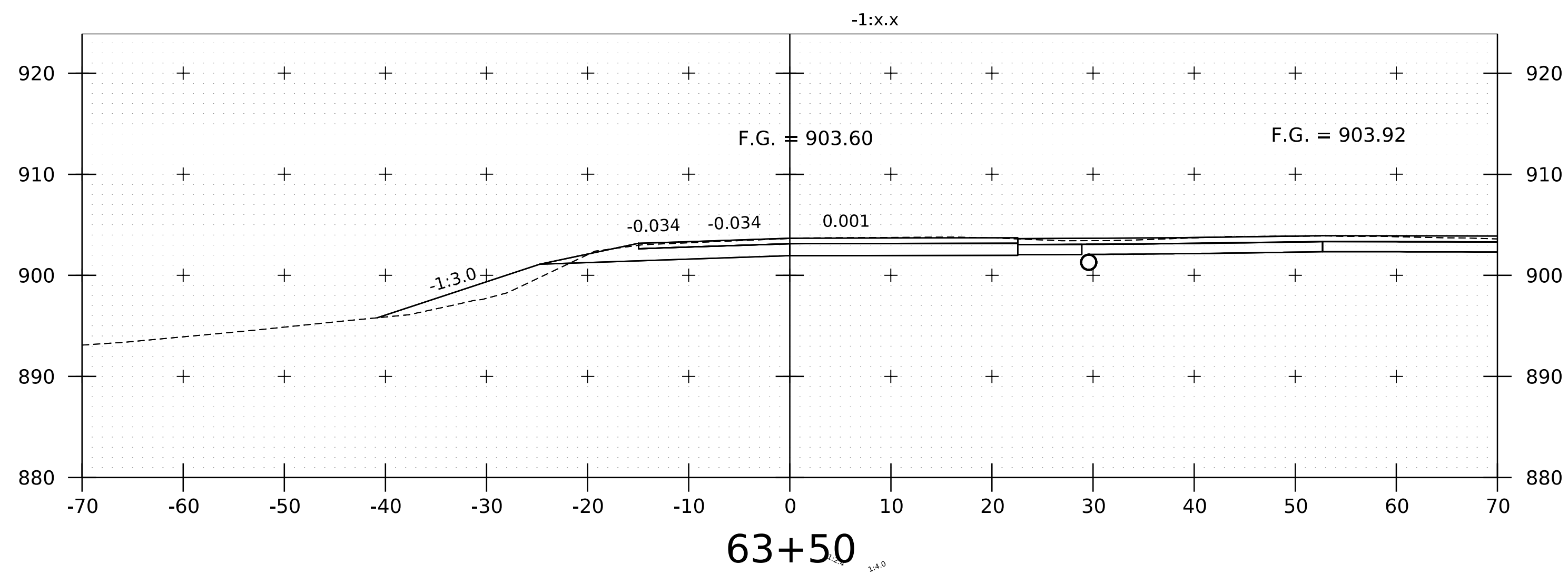
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PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029VT100XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	30 OF 56
DESIGNED BY:	J. PAQUETTE		
VT 100 CROSS SECTIONS 4			



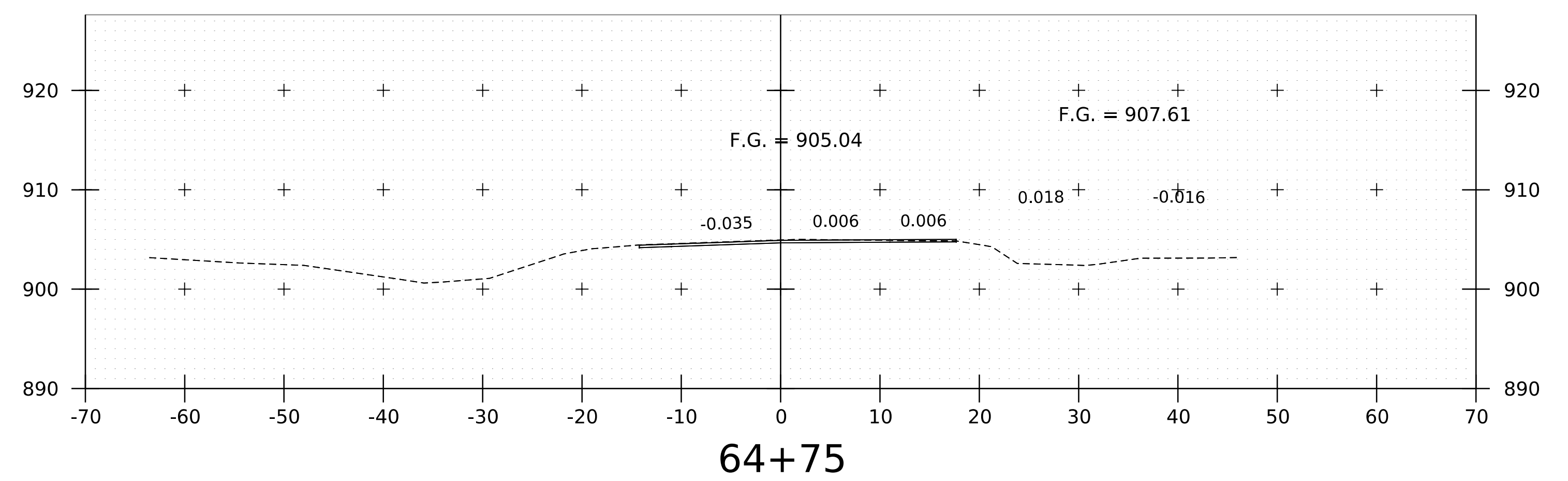
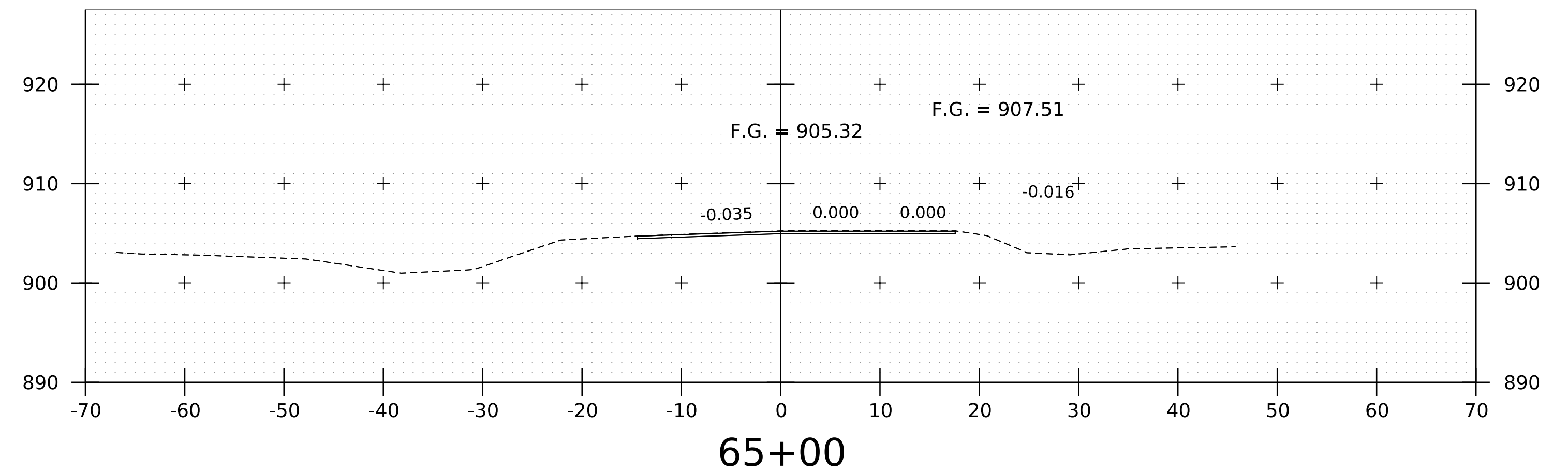
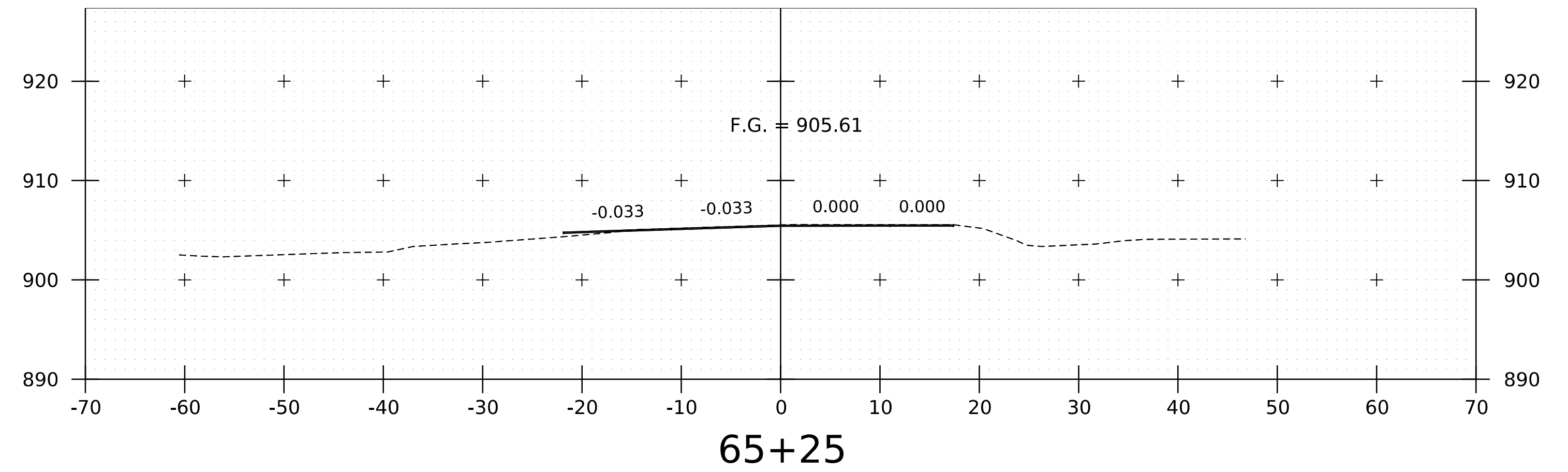
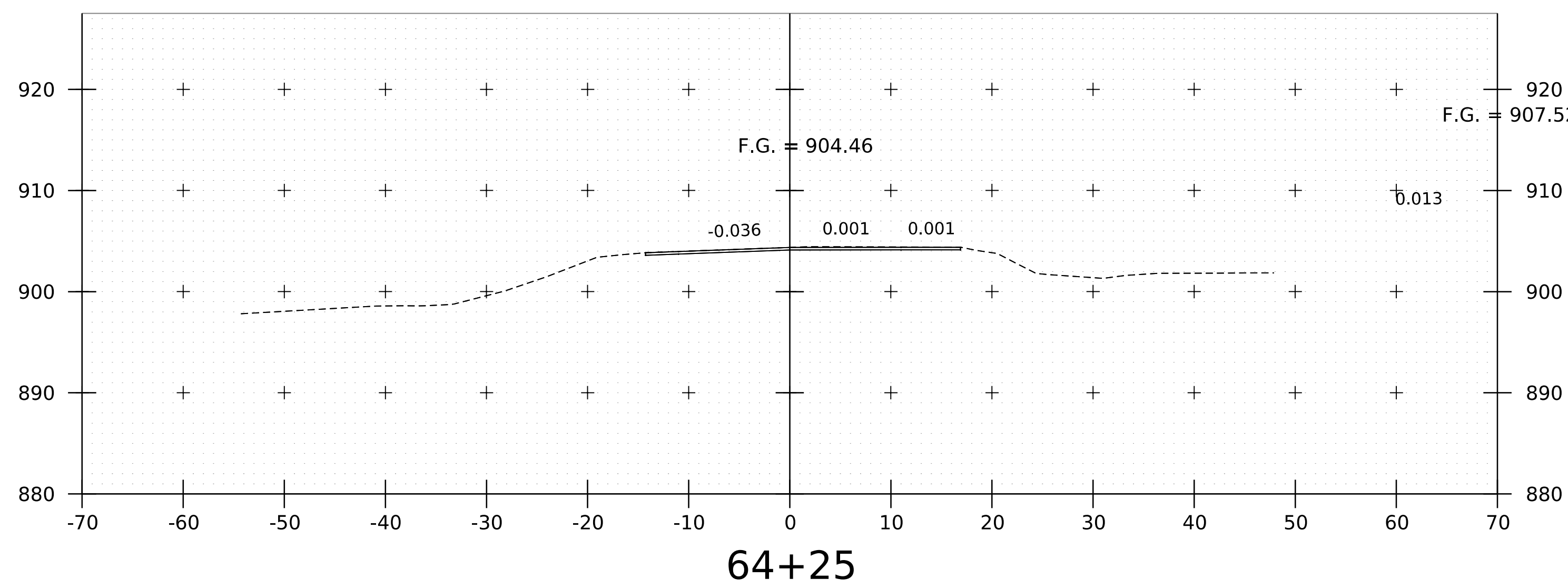
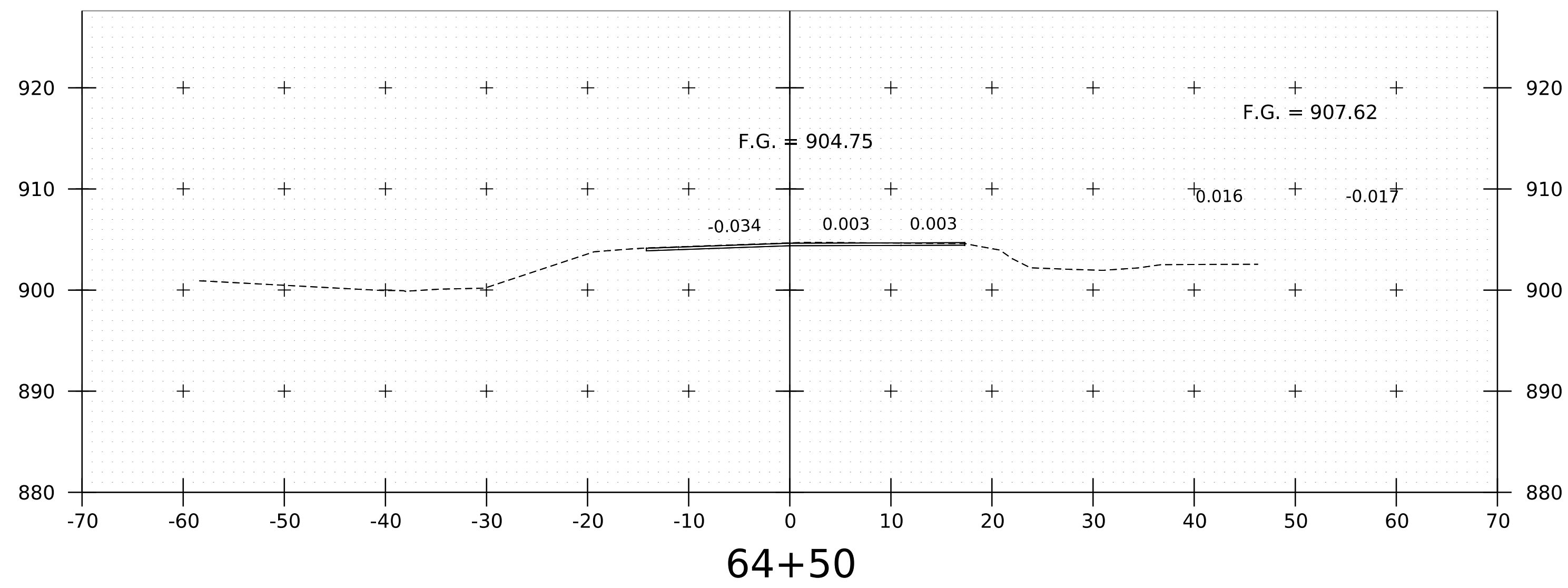
STONE FILL STA 61+82.50 LT - STONE STA 61+99.75 LT
STONE FILL TYPE II

BEGIN DITCH STA 61+82.50 RT
STONE FILL TYPE I

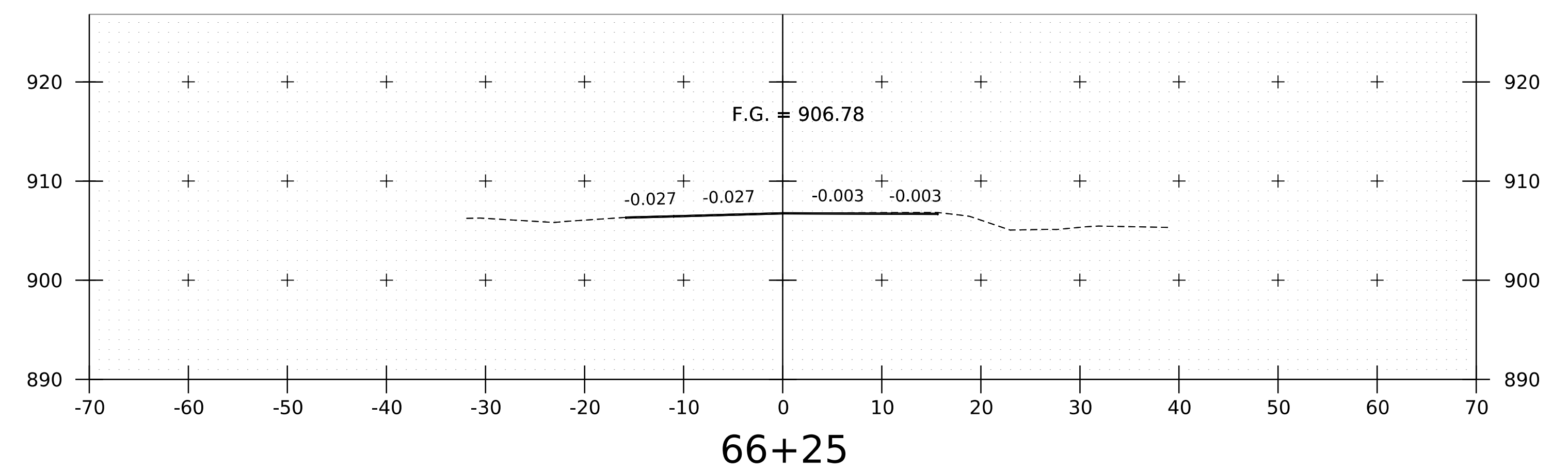
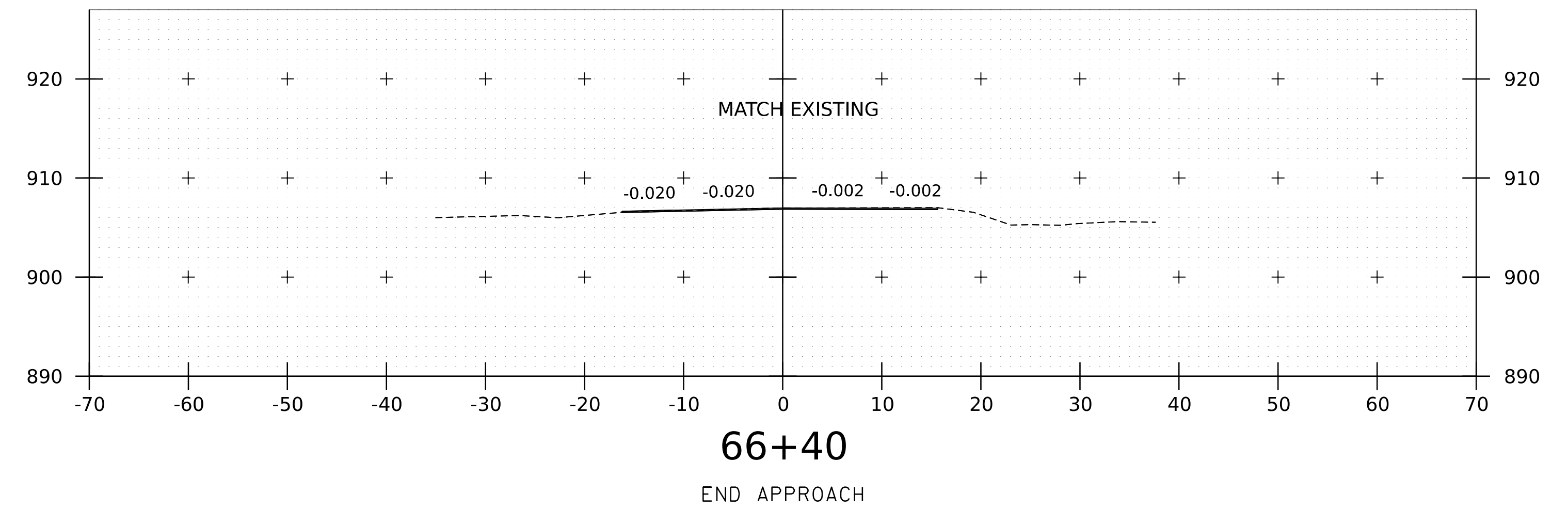
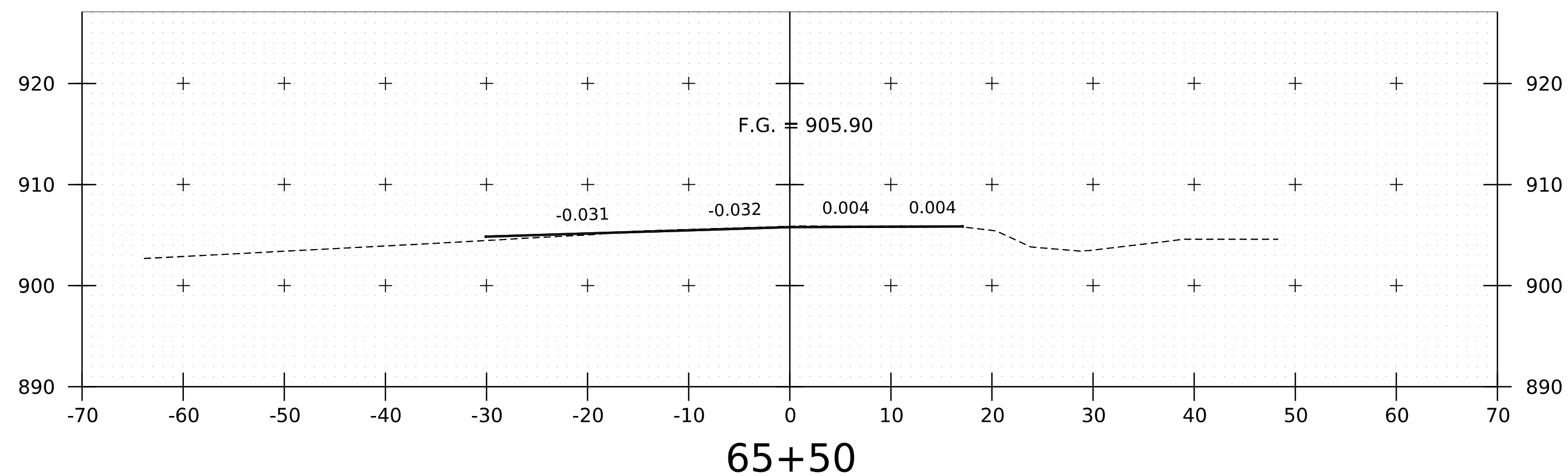
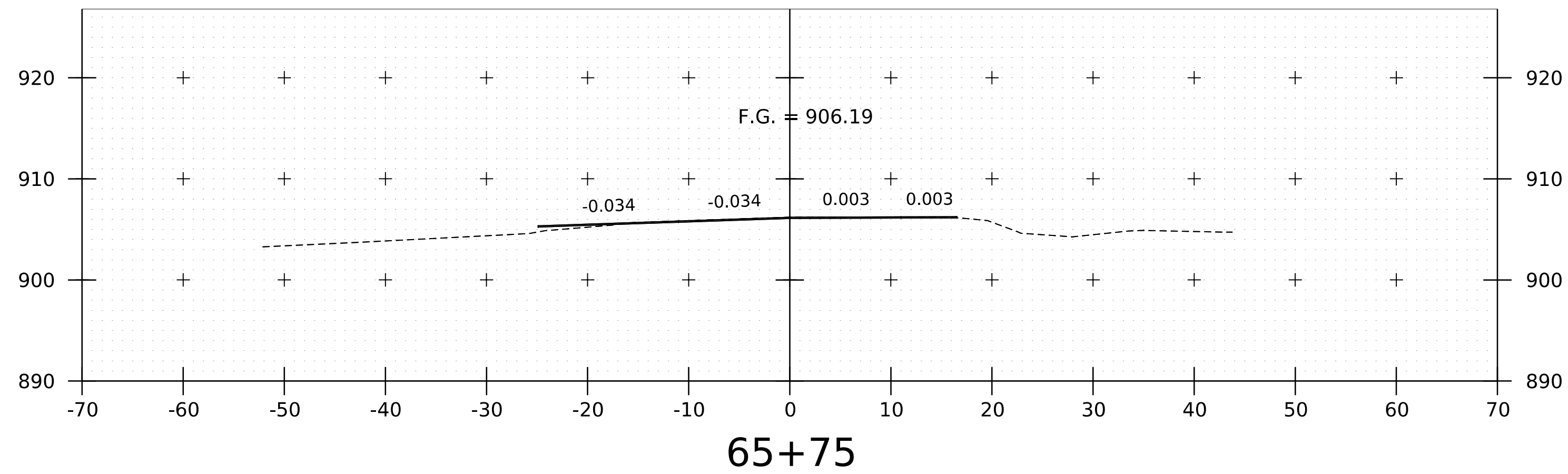
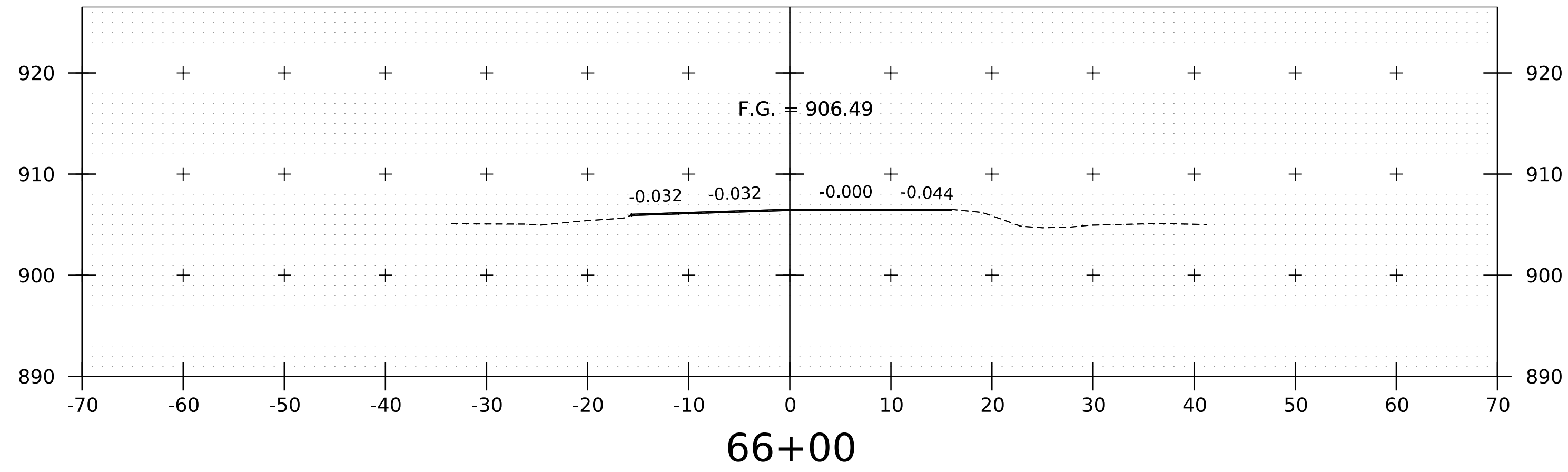
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029VT100XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	31 OF 56
DESIGNED BY:	J. PAQUETTE		
VT 100 CROSS SECTIONS 5			



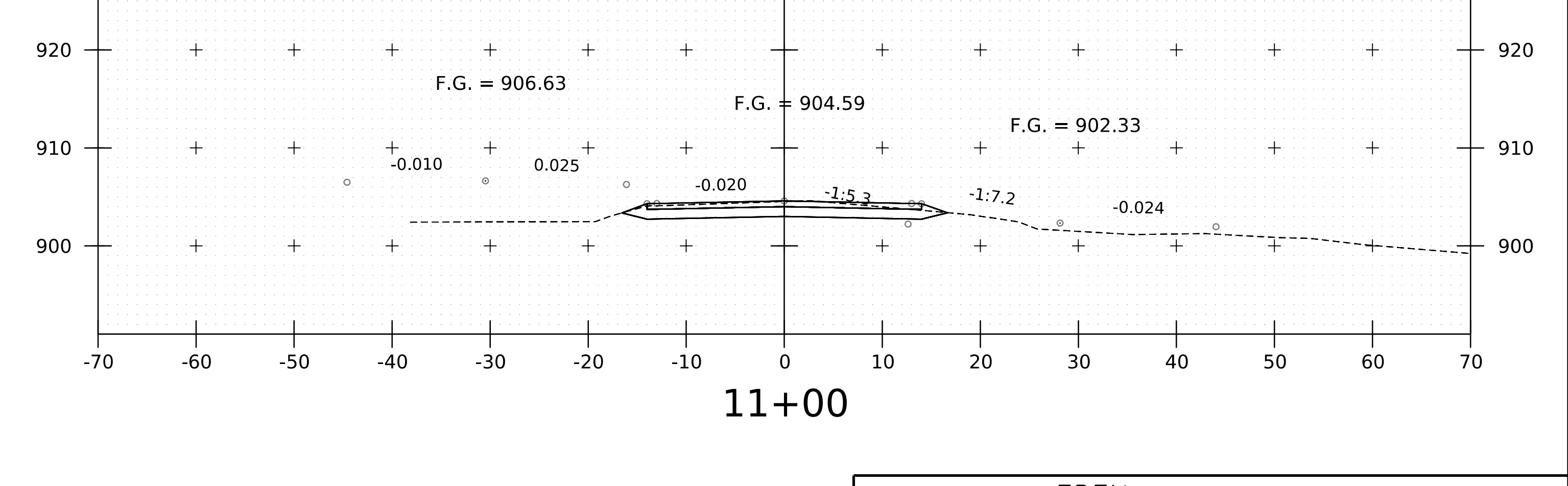
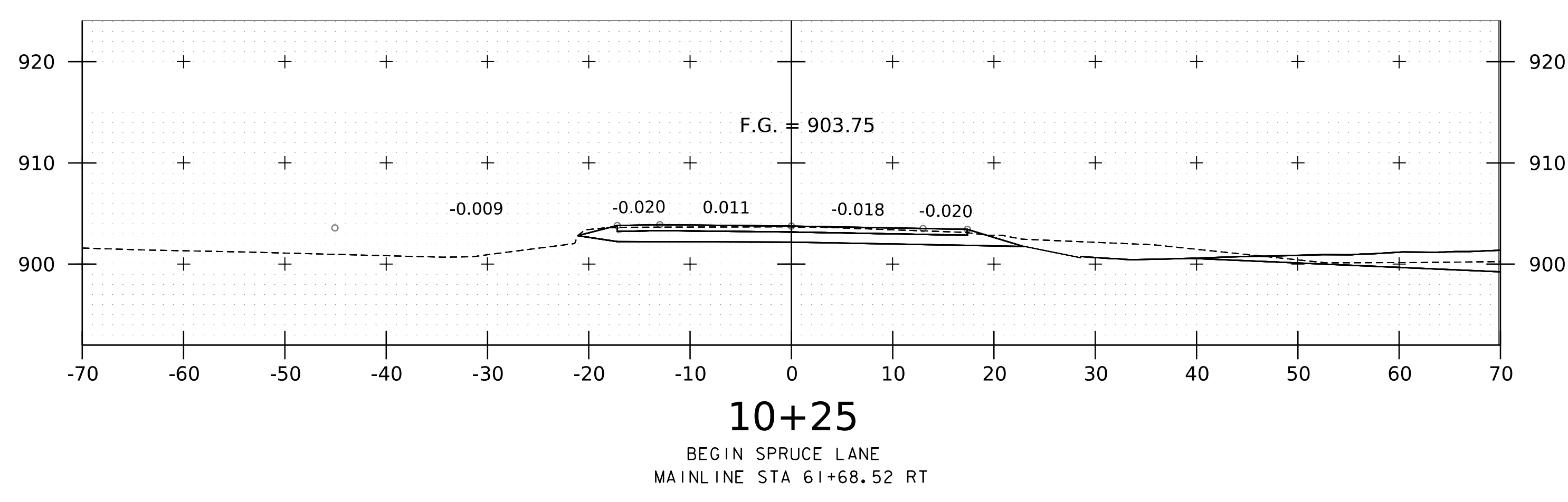
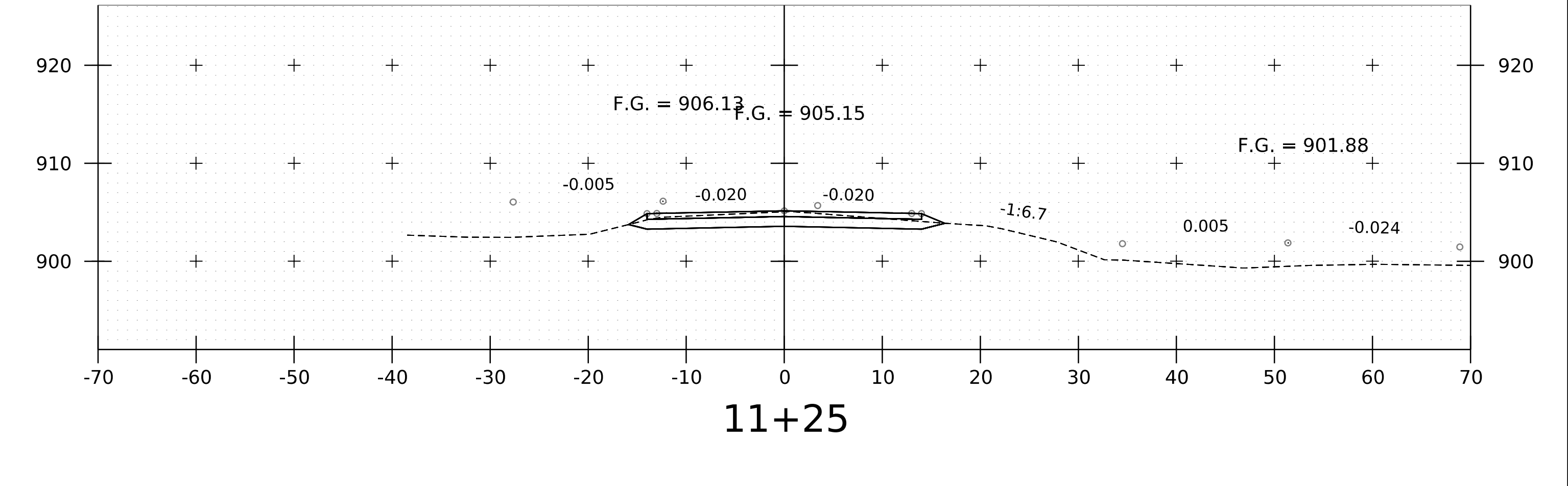
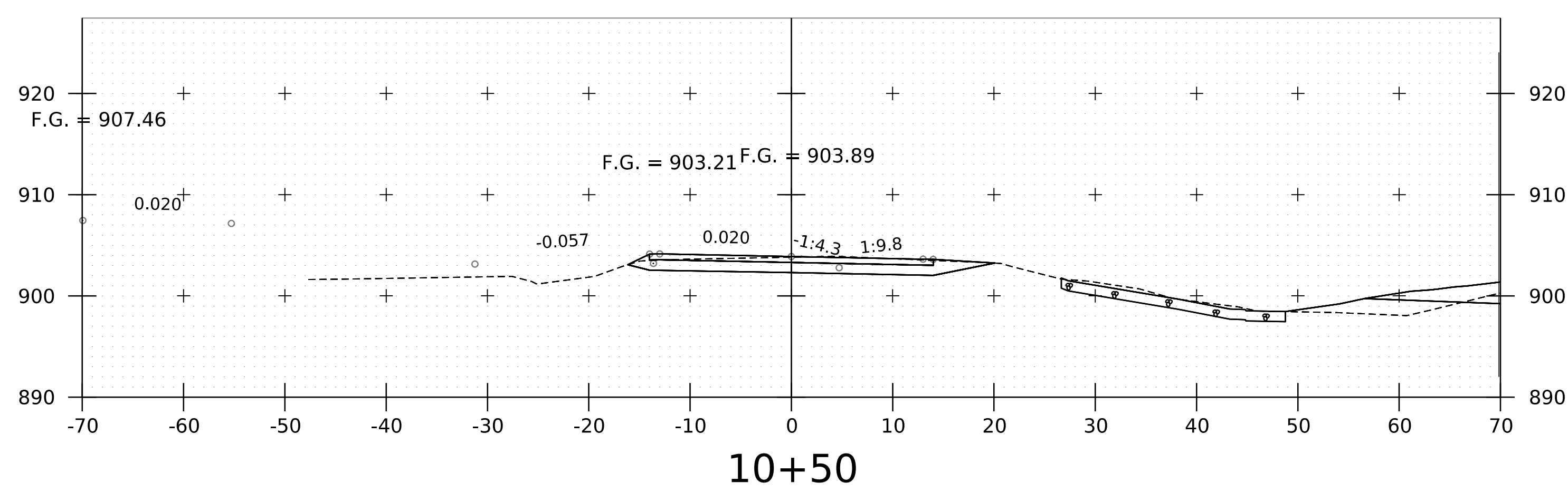
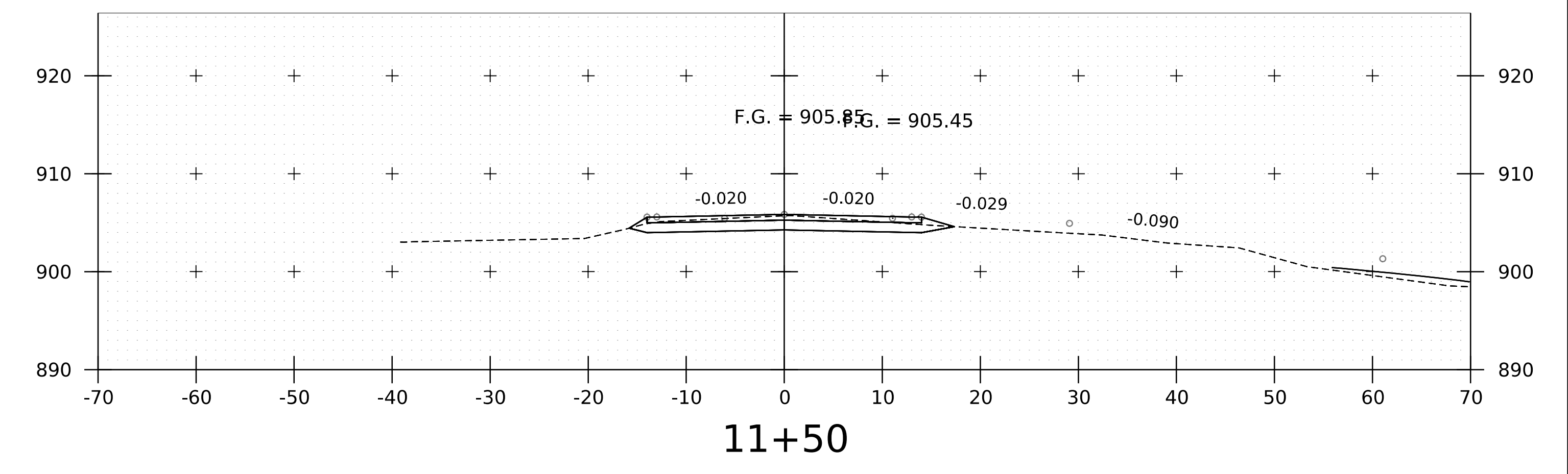
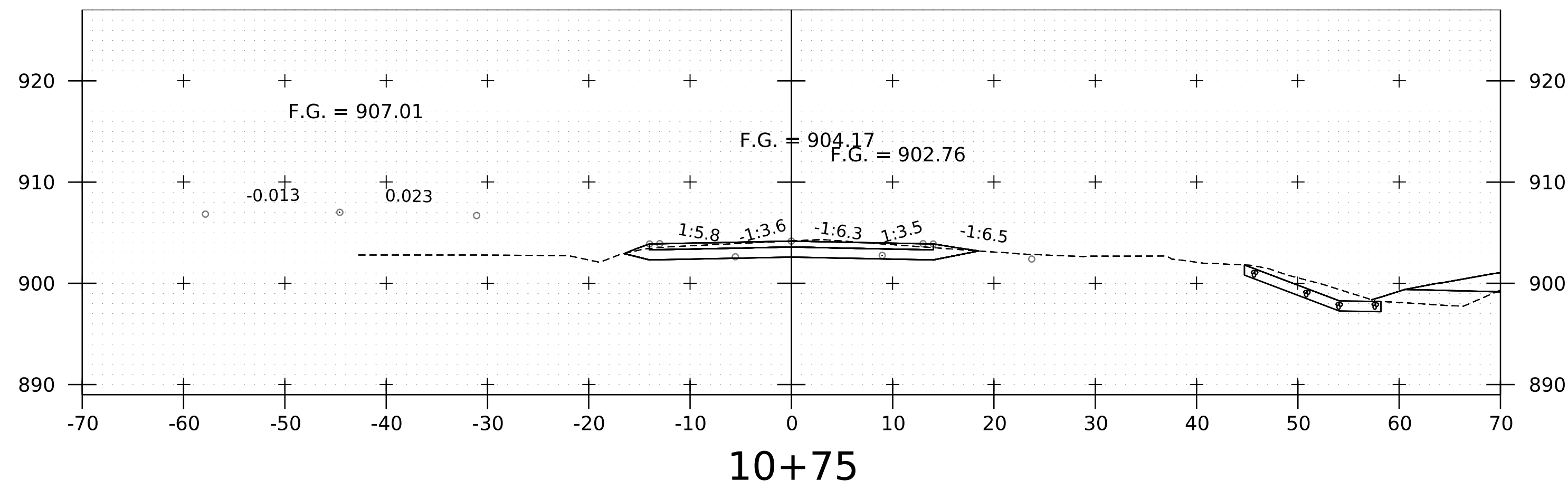
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029VT100XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	32 OF 56
DESIGNED BY:	J. PAQUETTE		
VT 100 CROSS SECTIONS	6		



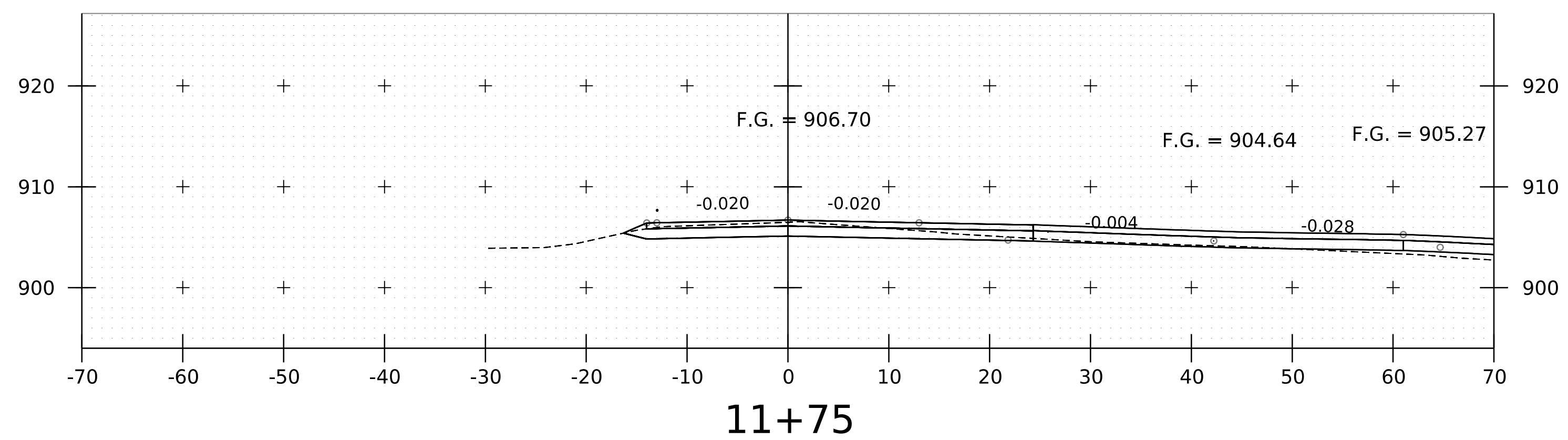
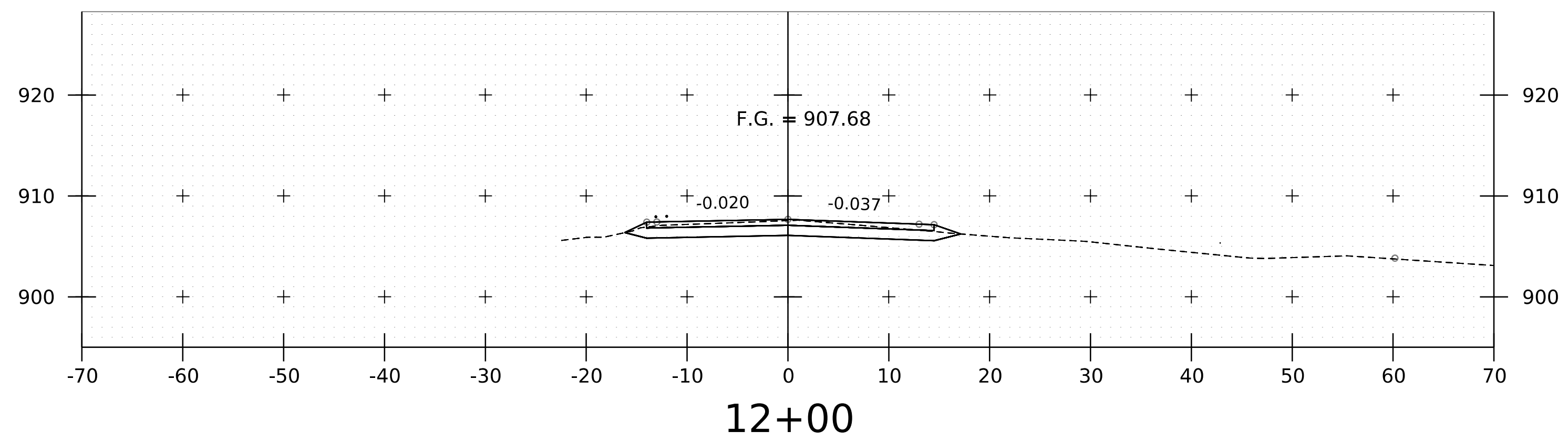
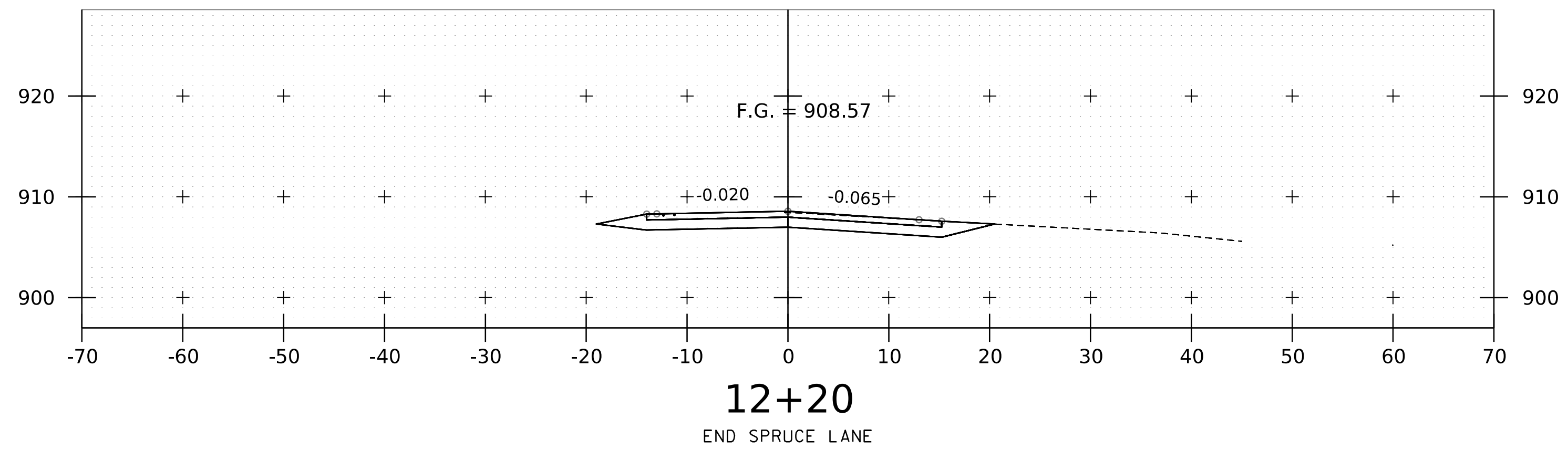
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029VT100XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	33 OF 56
DESIGNED BY:	J. PAQUETTE		
VT 100 CROSS SECTIONS 7			



PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s21b029VT100XS.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 34 OF 56
DESIGNED BY: J. PAQUETTE	
VT 100 CROSS SECTIONS 8	



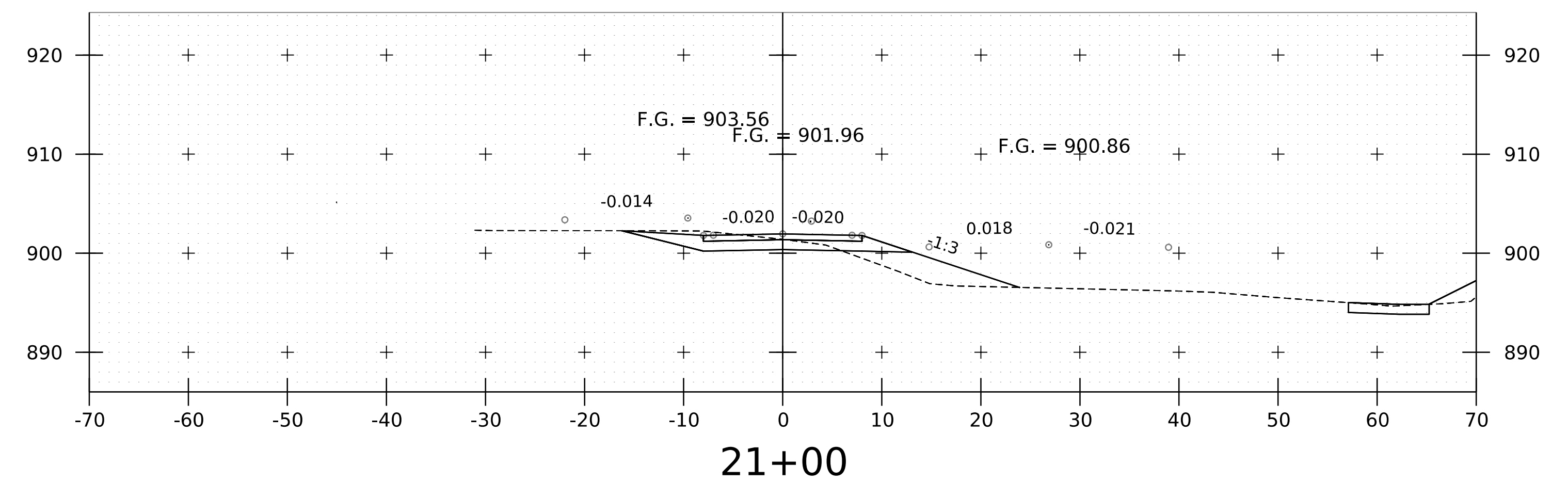
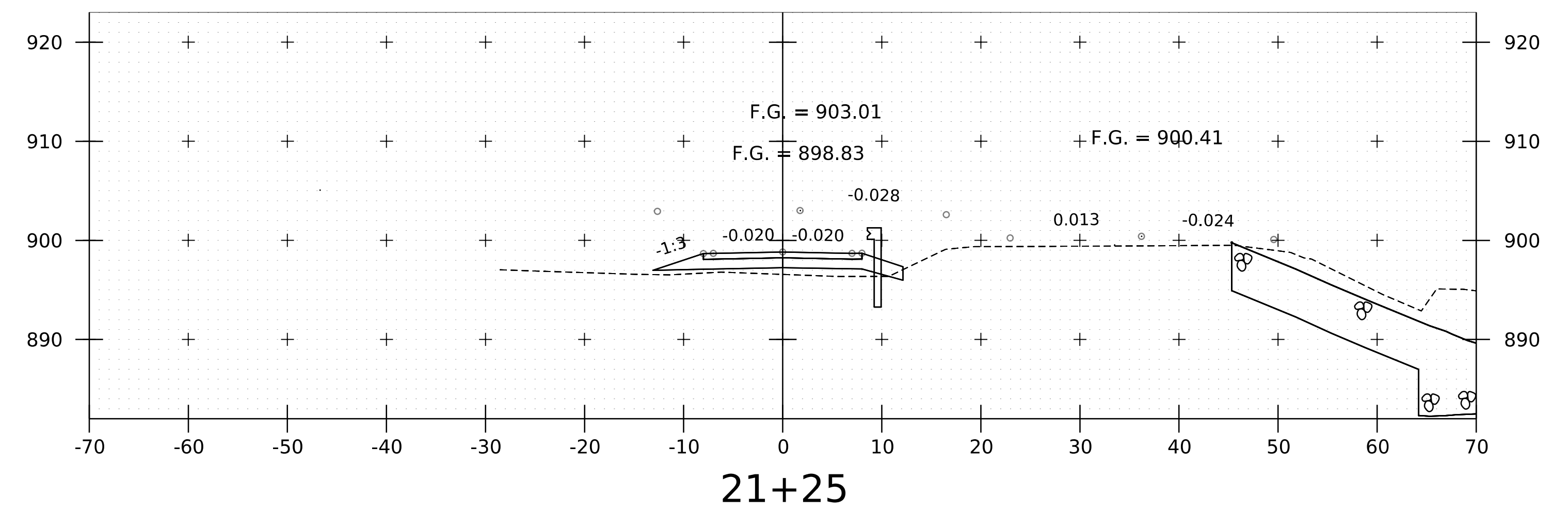
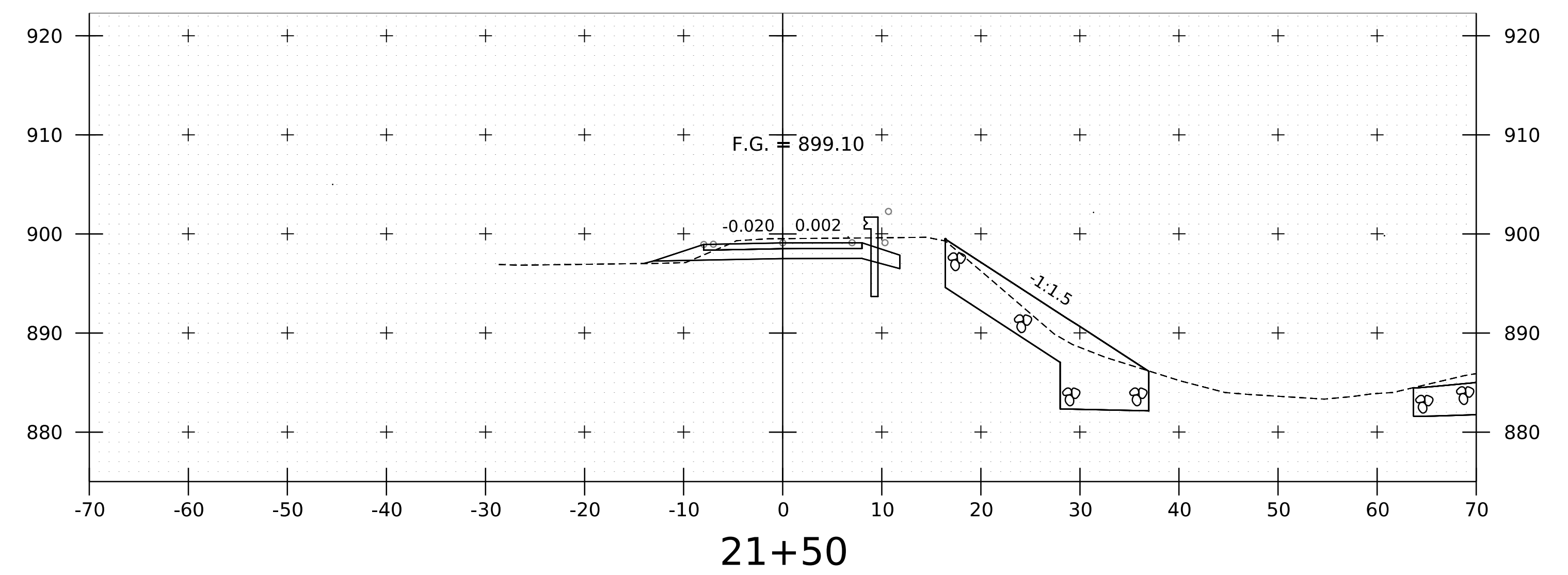
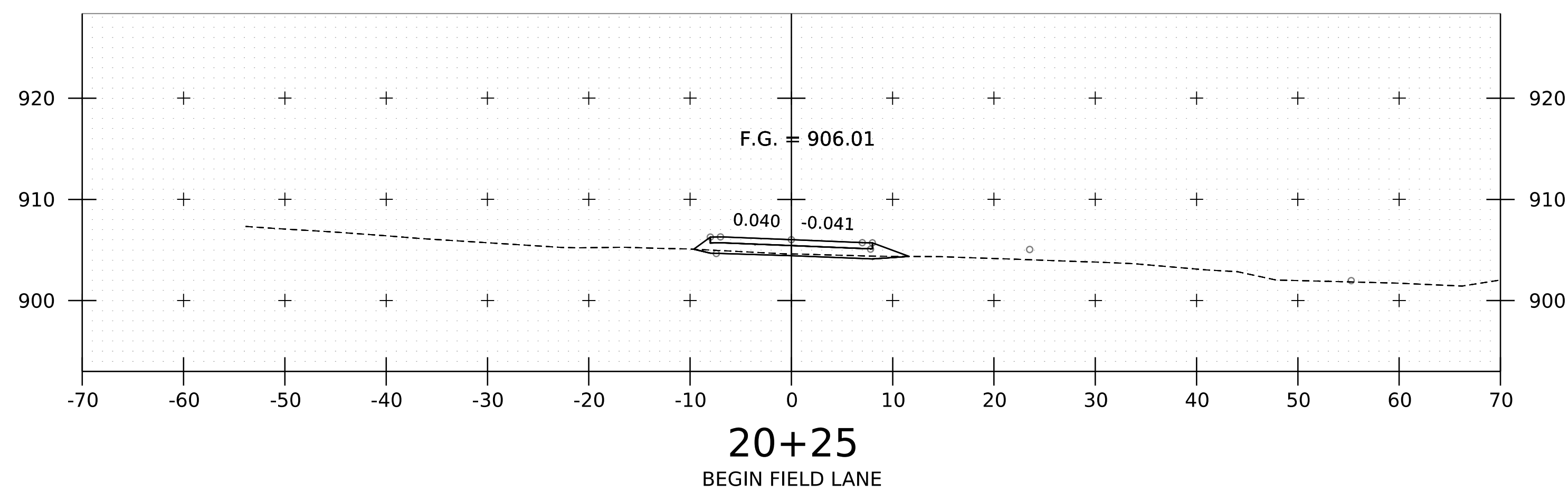
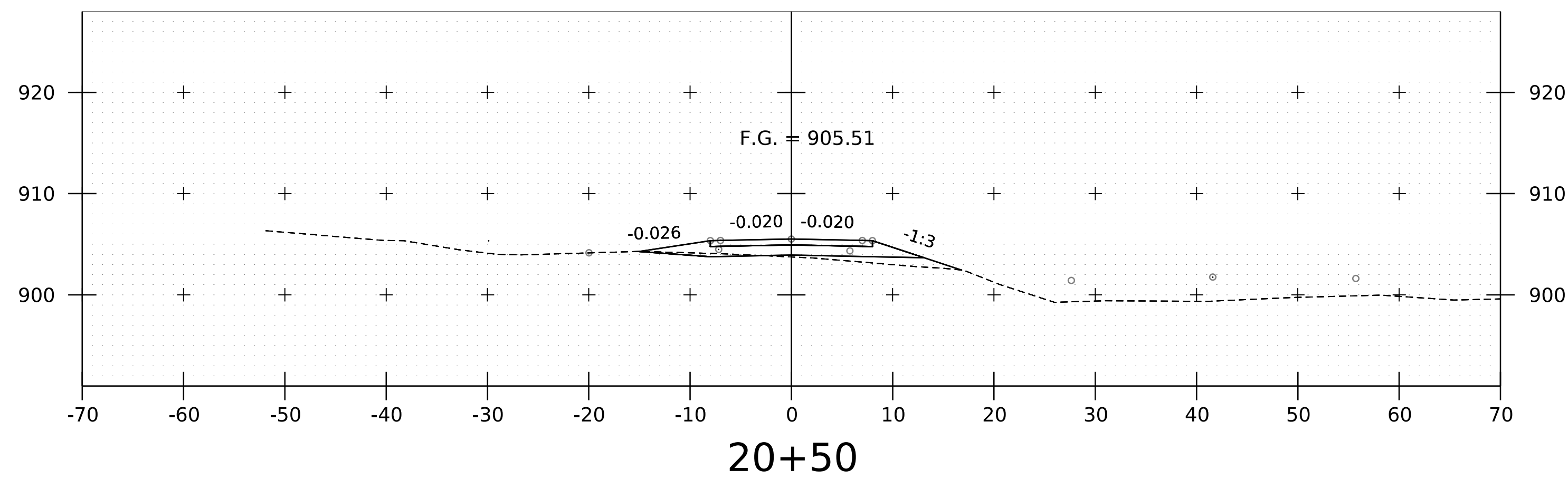
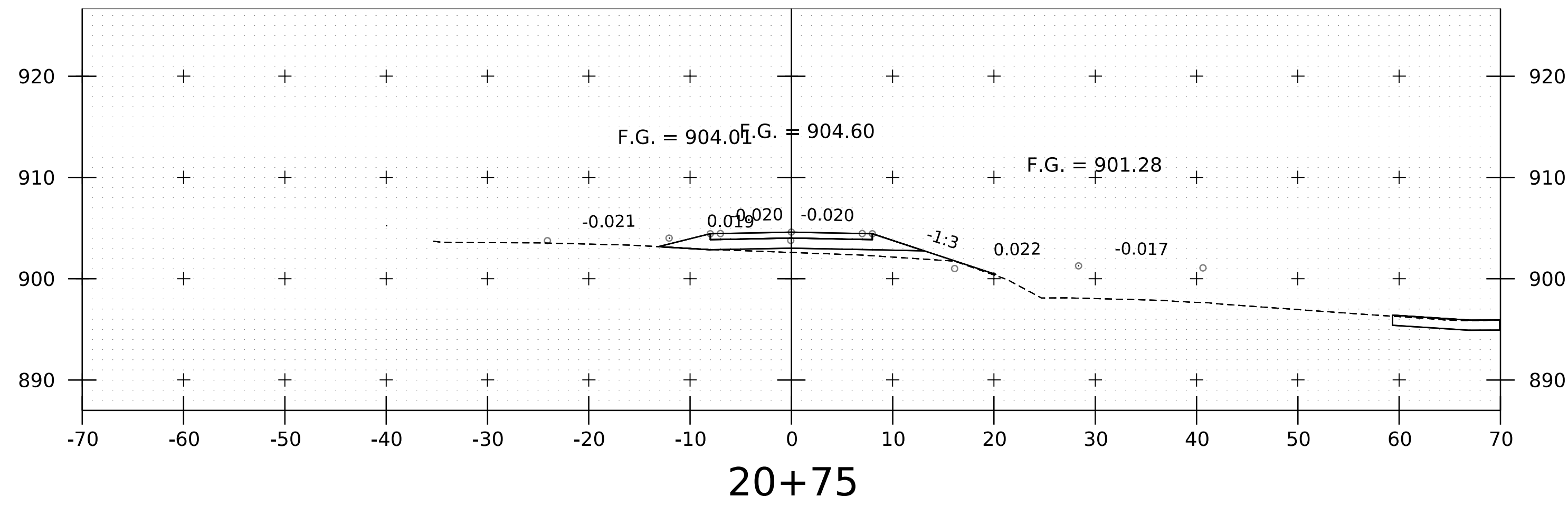
PROJECT NAME: EDEN	
PROJECT NUMBER: BF 029-2(15)	
FILE NAME: s2b029SpruceLane.dgn	PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
SPRUCE LANE CROSS SECTIONS I	SHEET 35 OF 56



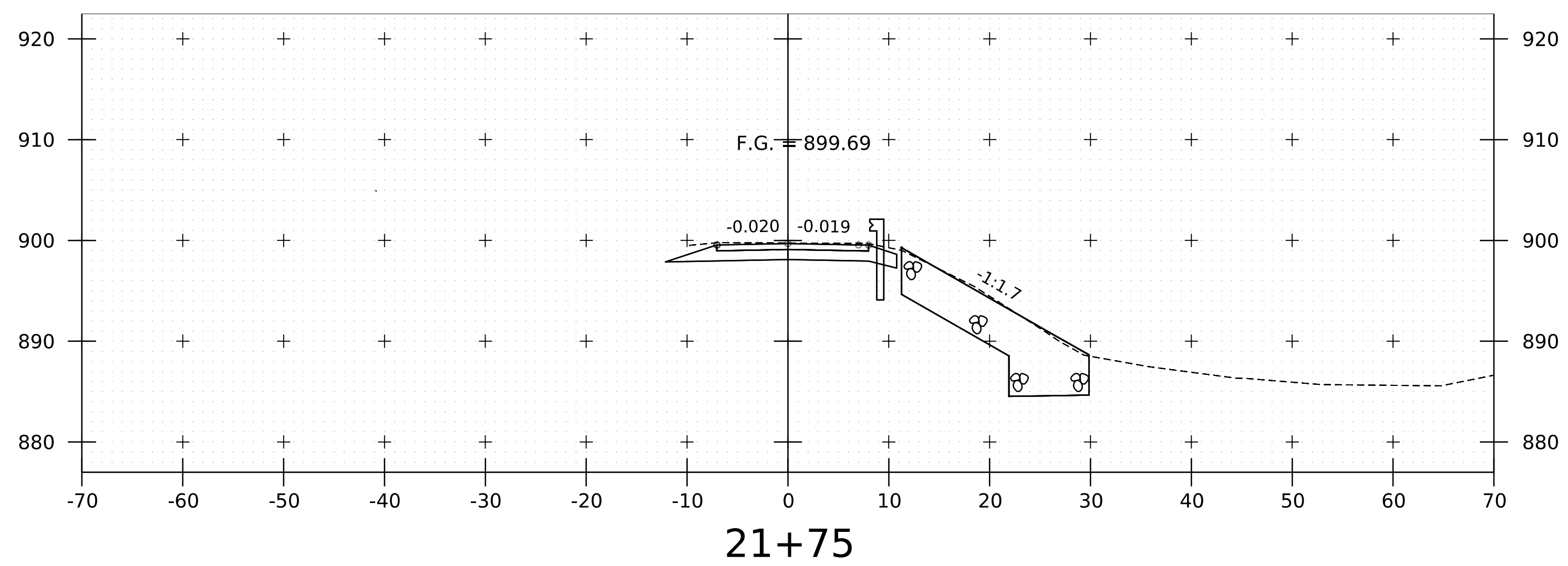
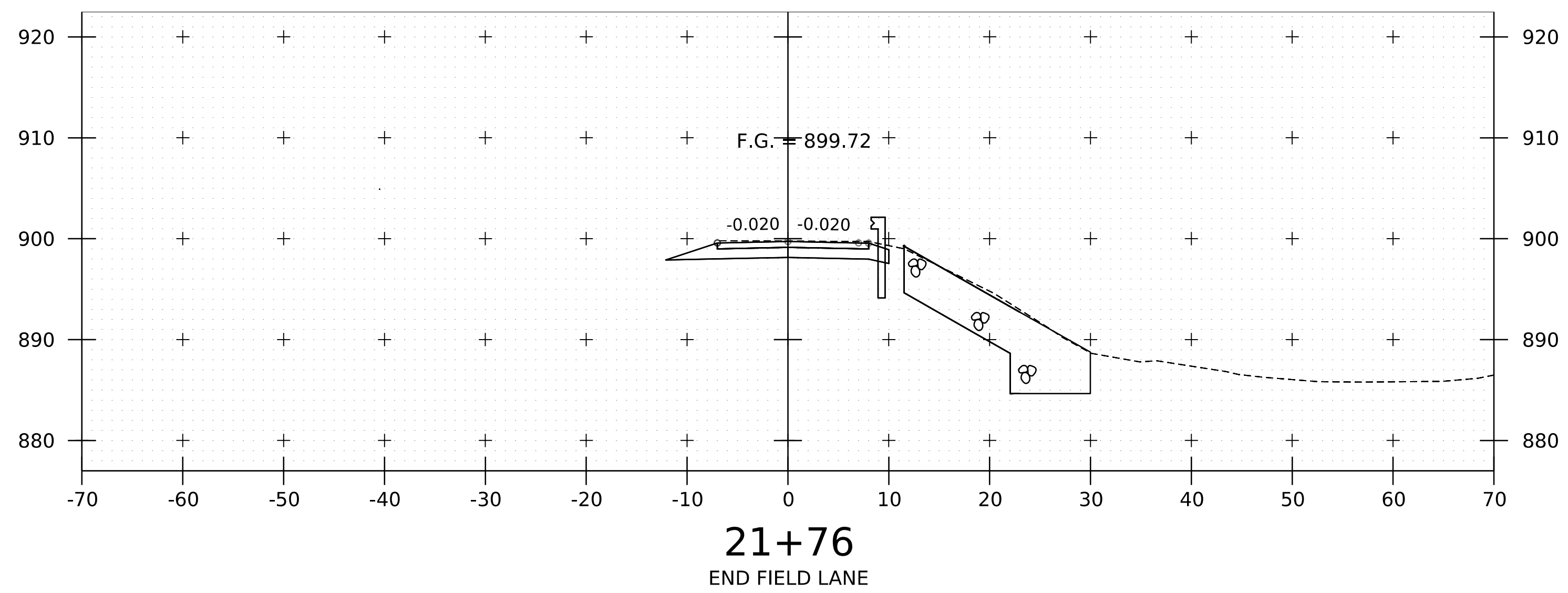
PROJECT NAME: EDEN
PROJECT NUMBER: BF 029-2(15)

FILE NAME: s21b029SpruceLane.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: J. PAQUETTE
SPRUCE LANE CROSS SECTIONS 2

PLOT DATE: 6-MAY-2024
DRAWN BY: J. PAQUETTE
CHECKED BY: D. PETERSON
SHEET 36 OF 56

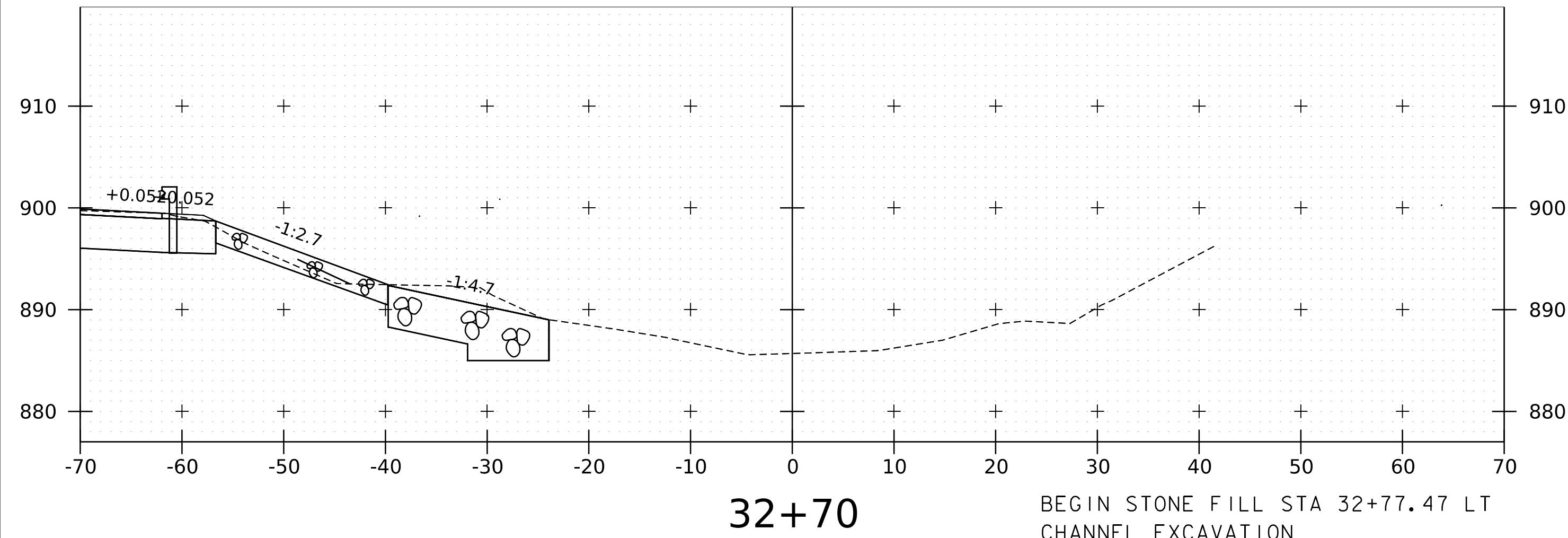


PROJECT NAME: EDEN	
PROJECT NUMBER: BF 029-2(15)	
FILE NAME: s21b029FieldLaneXS.dgn	PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
FIELD LANE CROSS SECTIONS I	SHEET 37 OF 56

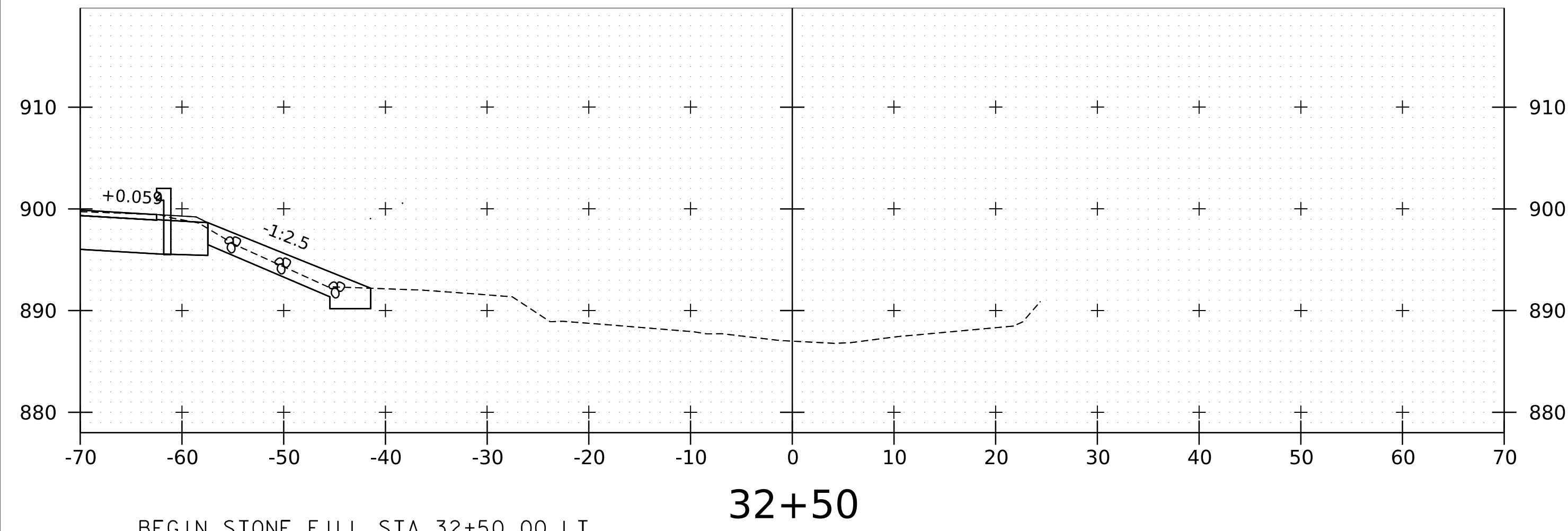
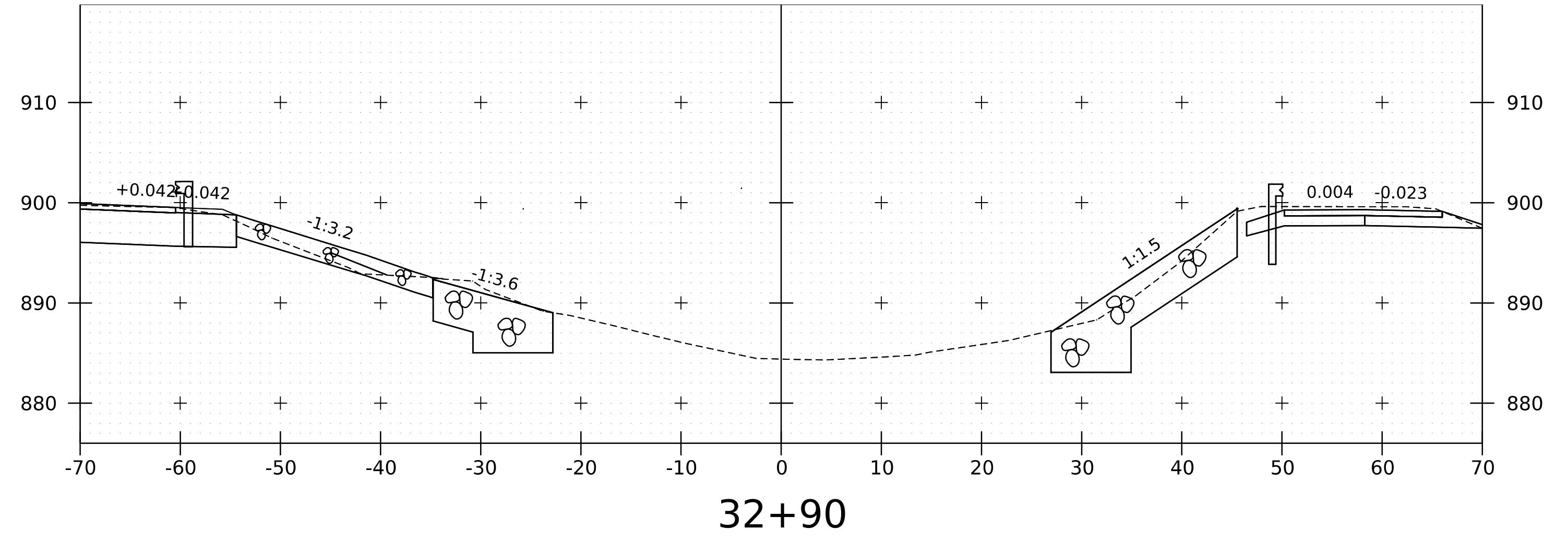
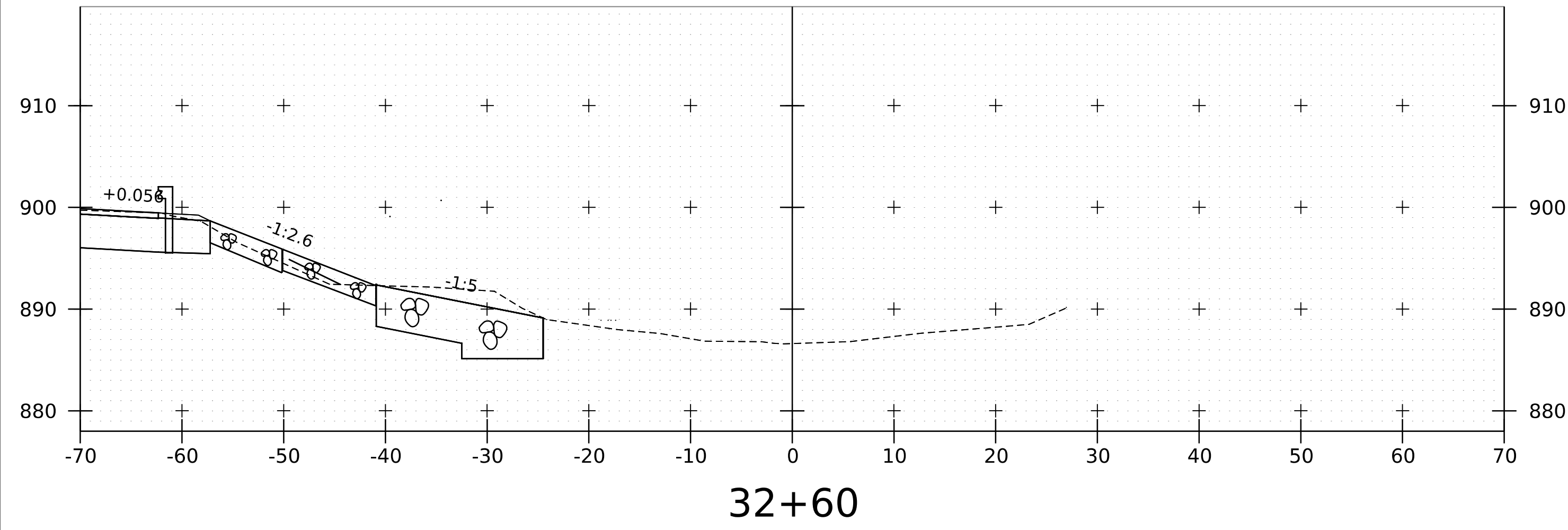
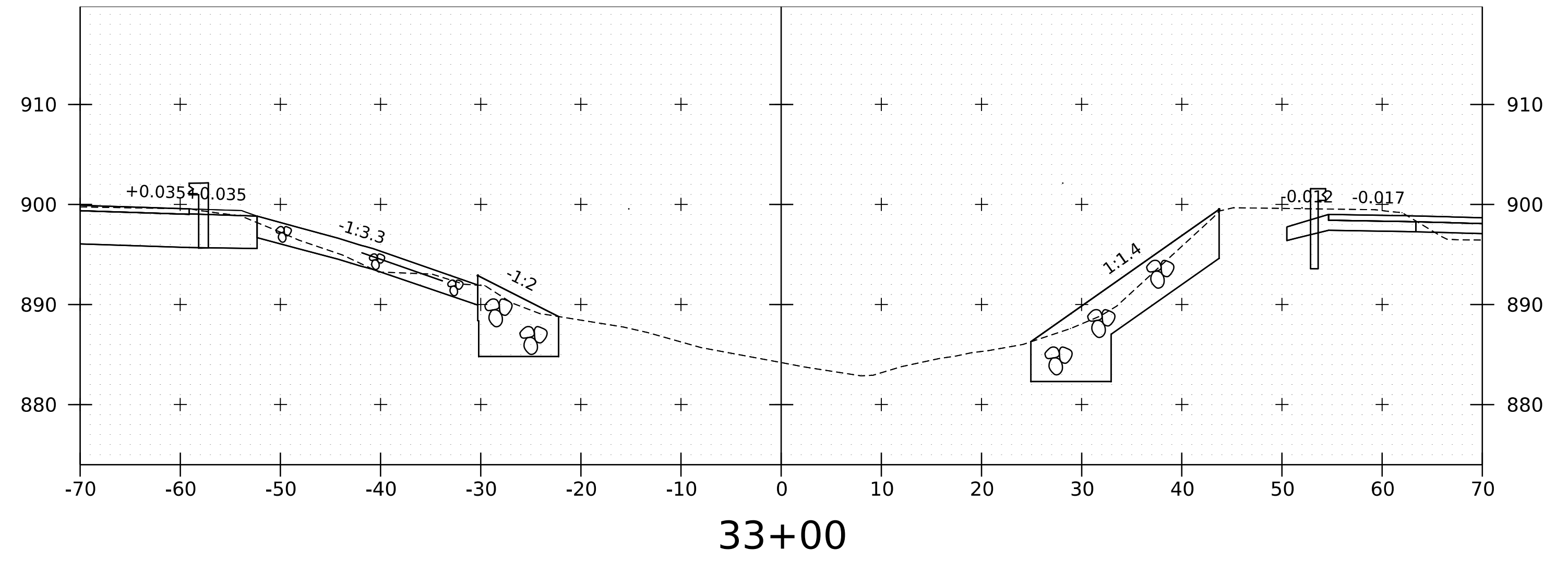


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PROJECT NUMBER: BF 029-2(15)

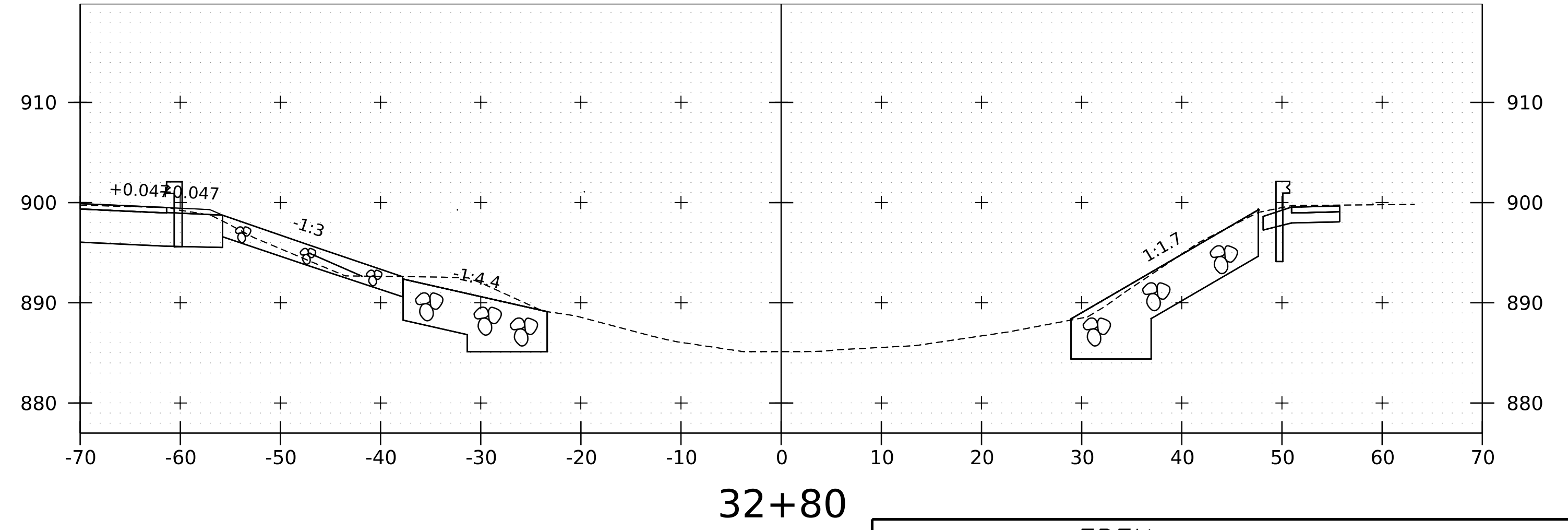
FILE NAME: s21b029FieldLaneXS.dgn	PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
FIELD LANE CROSS SECTIONS 2	SHEET 38 OF 56



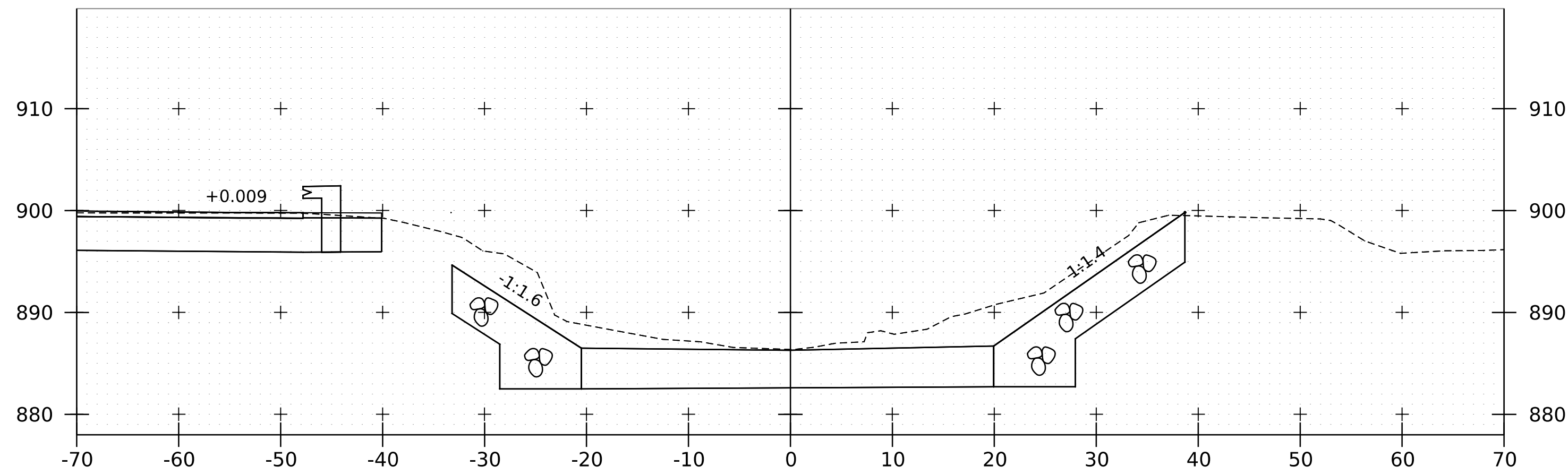
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CHANNEL EXCAVATION
STONE FILL, TYPE II
GEOTEXTILE UNDER STONE FILL



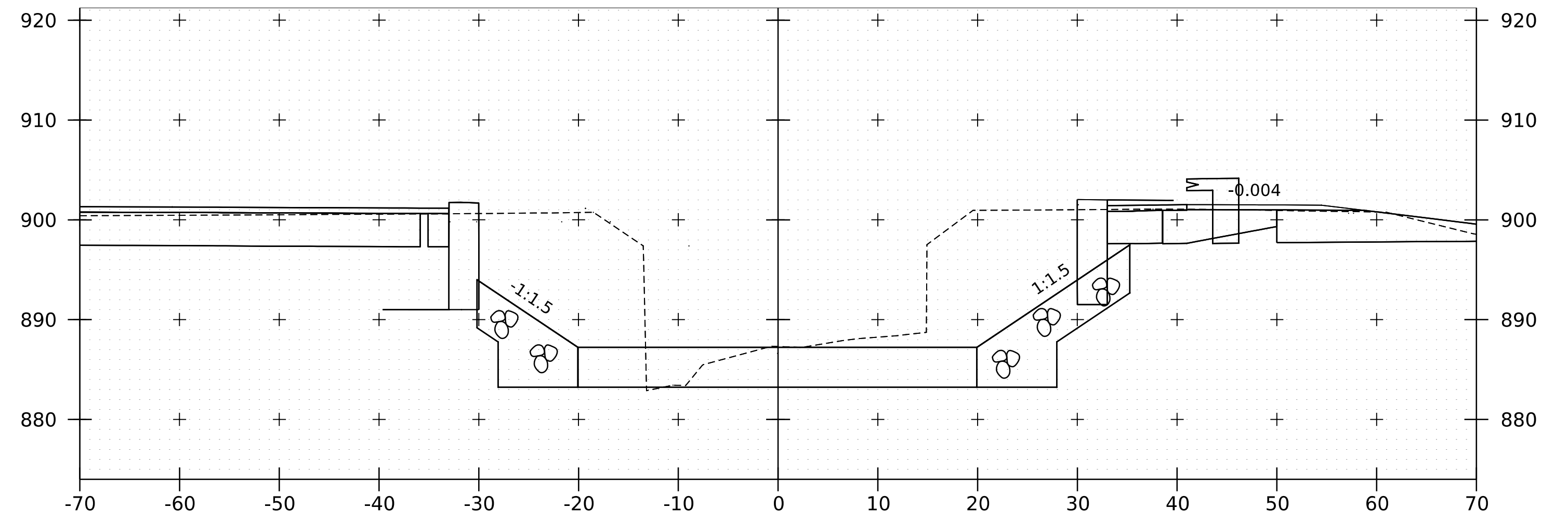
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CHANNEL EXCAVATION
STONE FILL, TYPE II
GEOTEXTILE UNDER STONE FILL



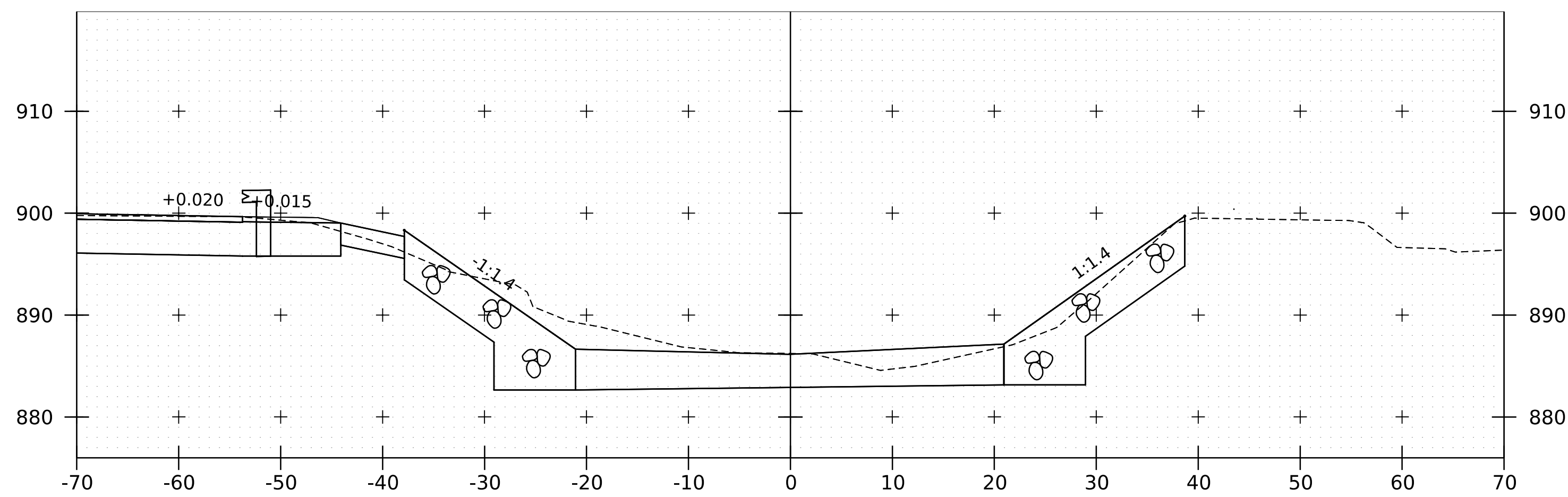
PROJECT NAME:	EDEN
PROJECT NUMBER:	BF 029-2(15)
FILE NAME:	s2b029ChannelXS.dgn
PLOT DATE:	6-MAY-2024
PROJECT LEADER:	C. COTA
DRAWN BY:	J. PAQUETTE
DESIGNED BY:	J. PAQUETTE
CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS I	SHEET 39 OF 56



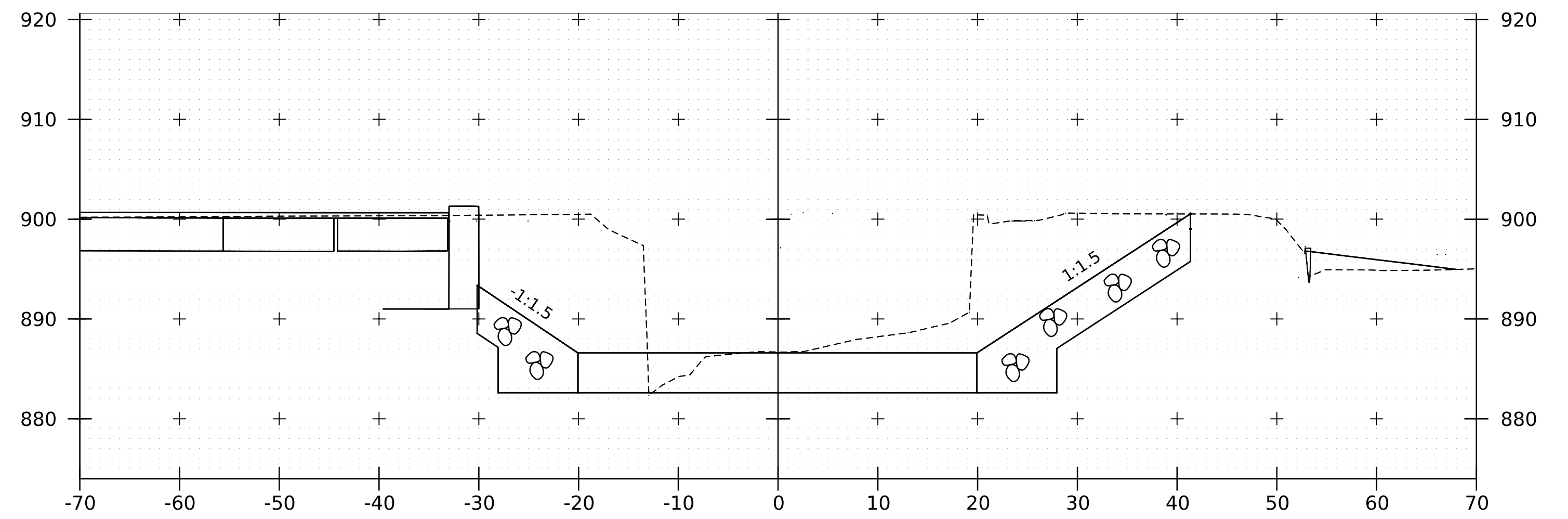
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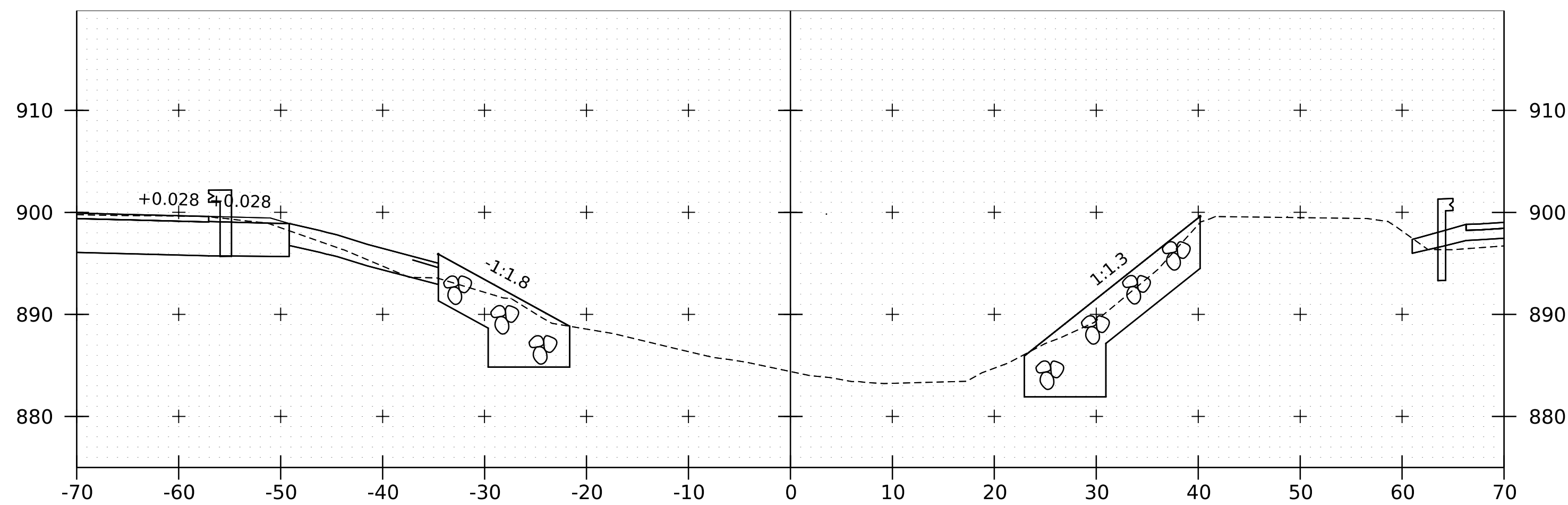
33+60



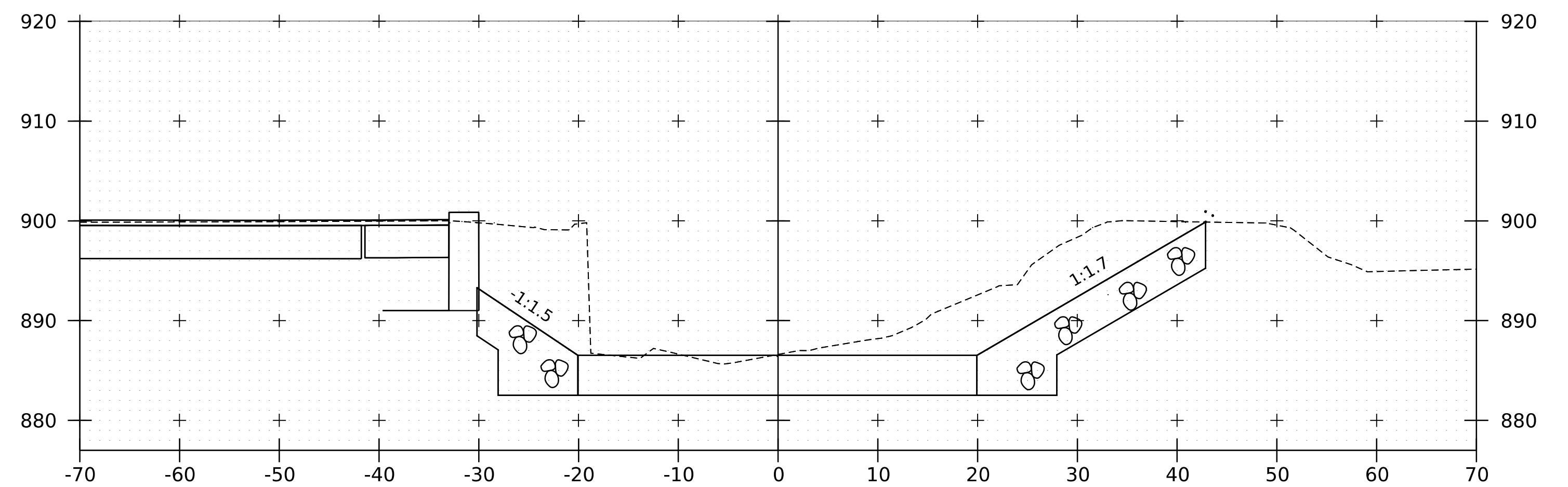
33+20



33+50

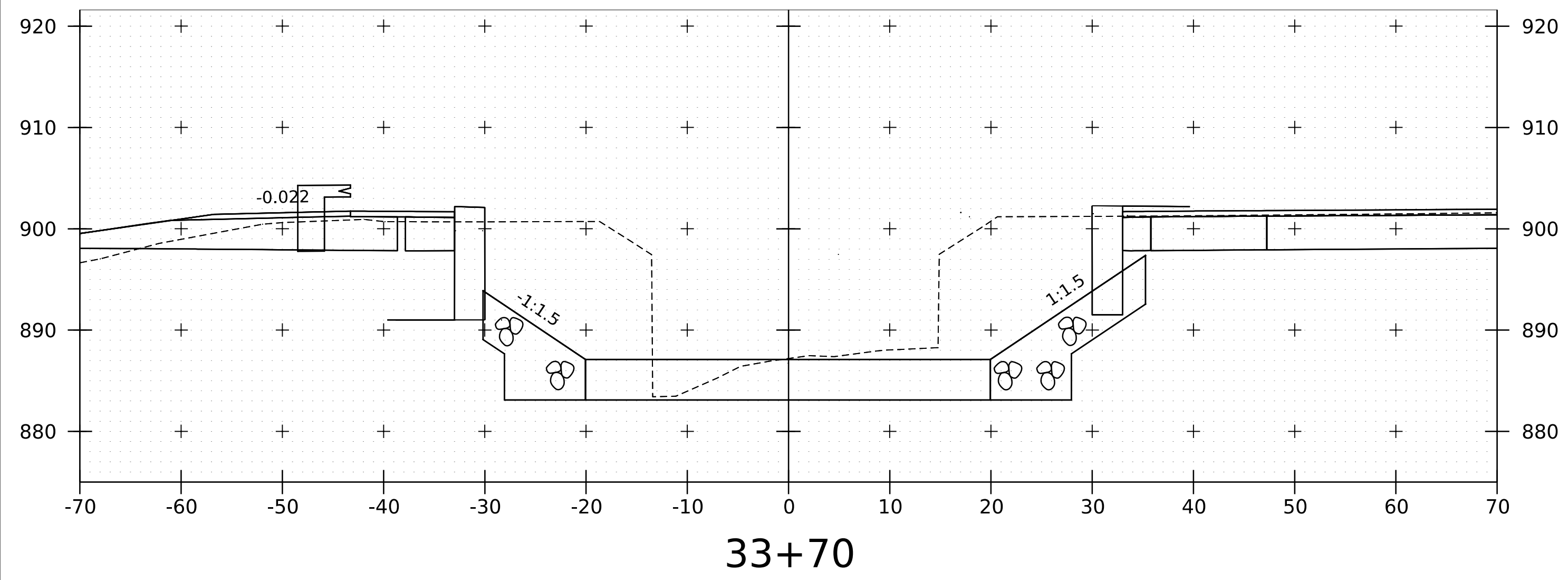
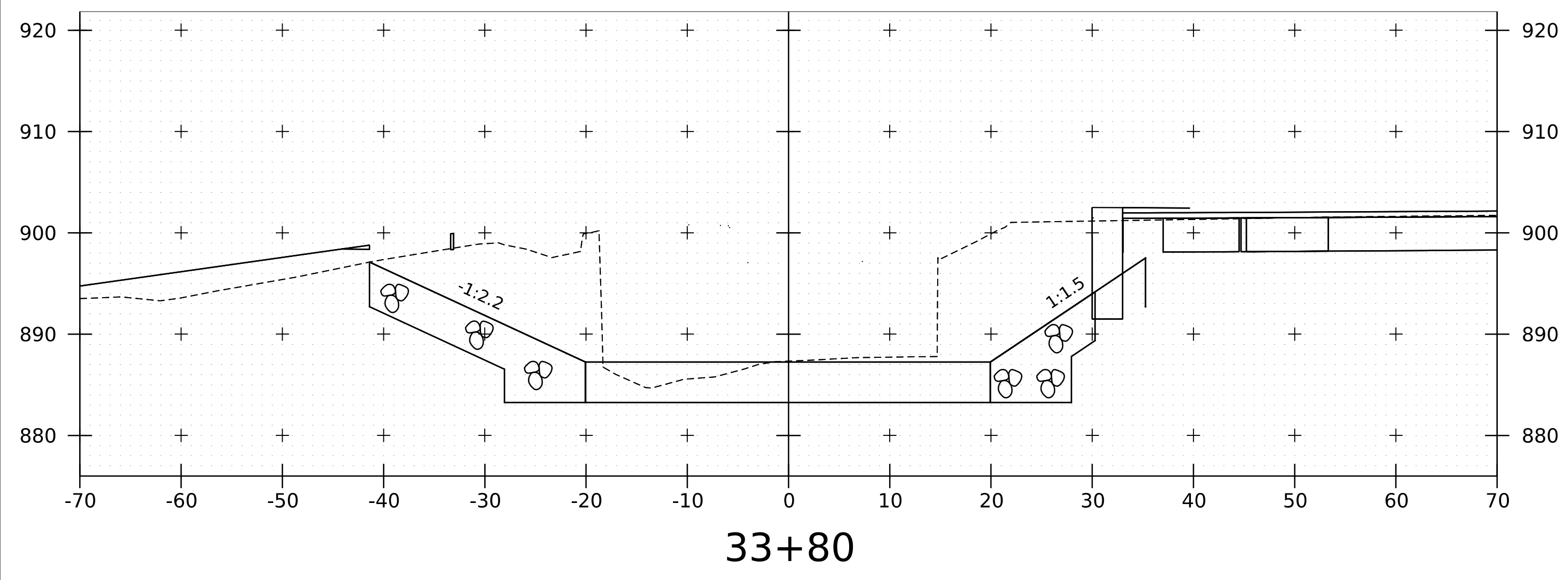
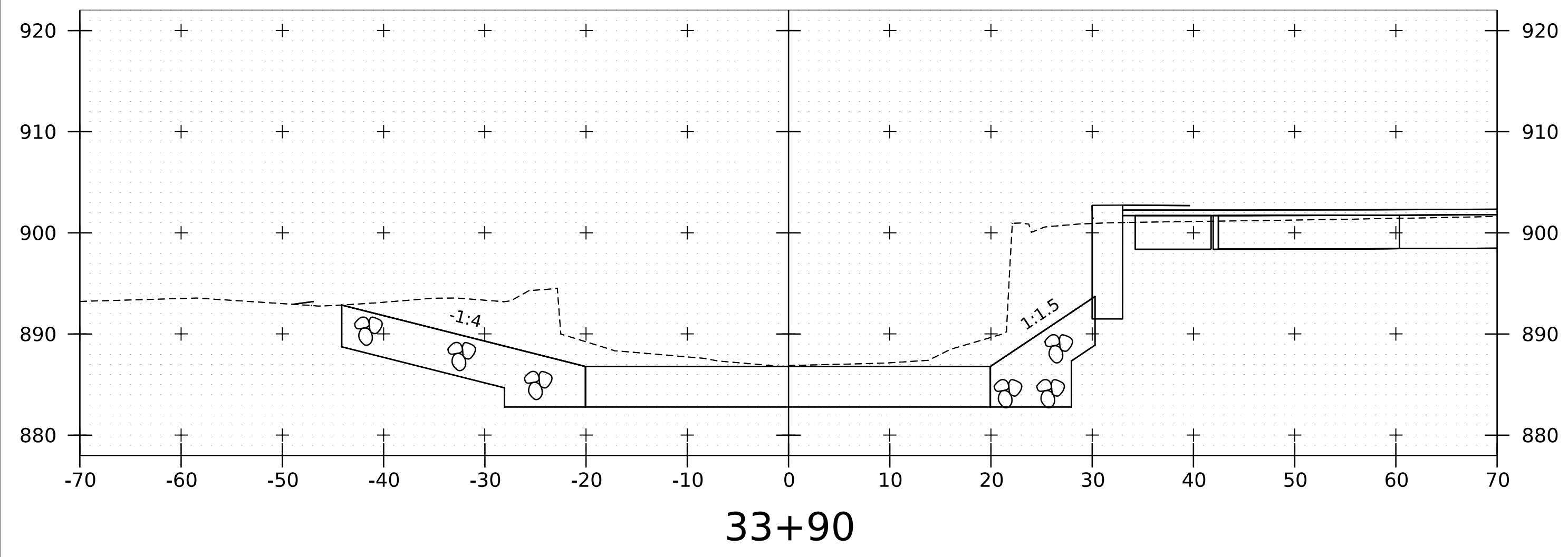


33+10

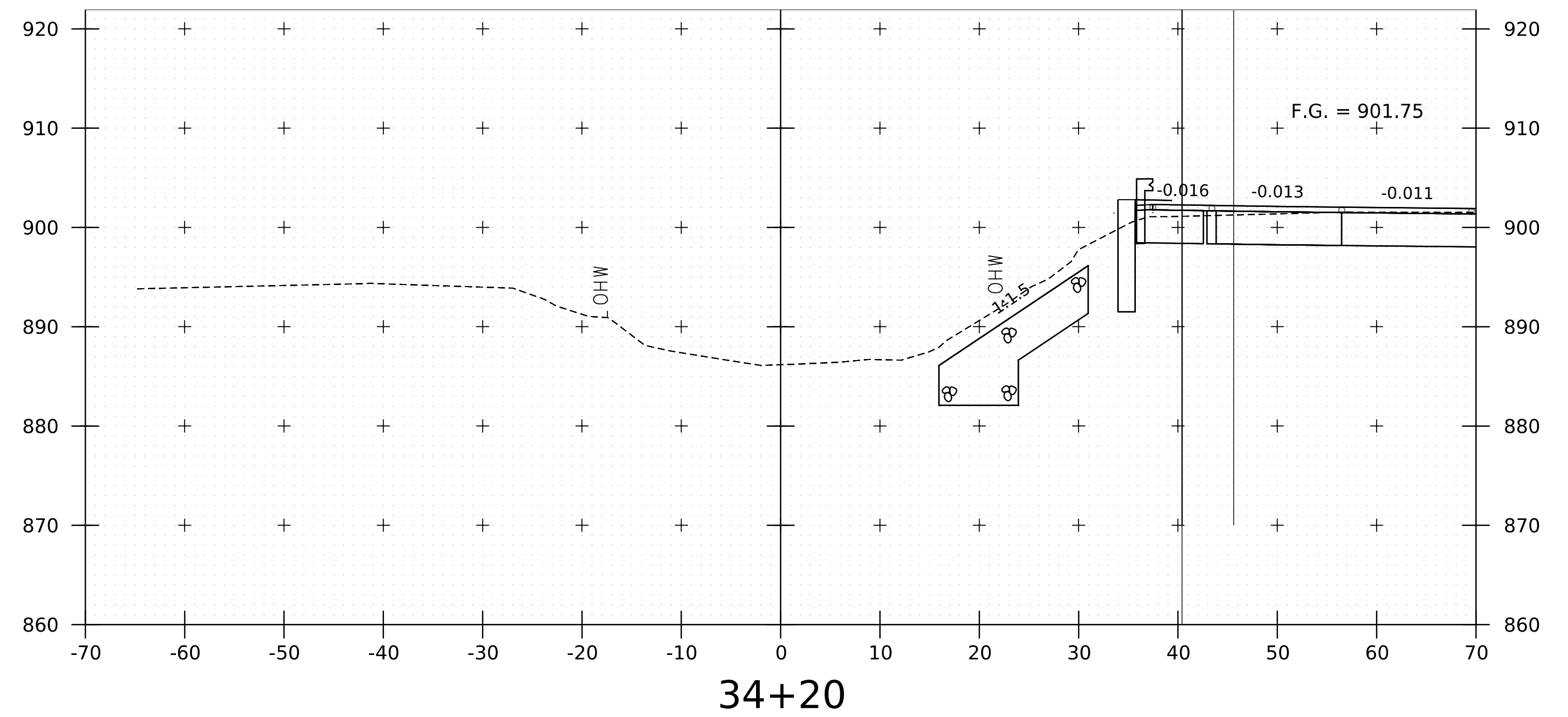
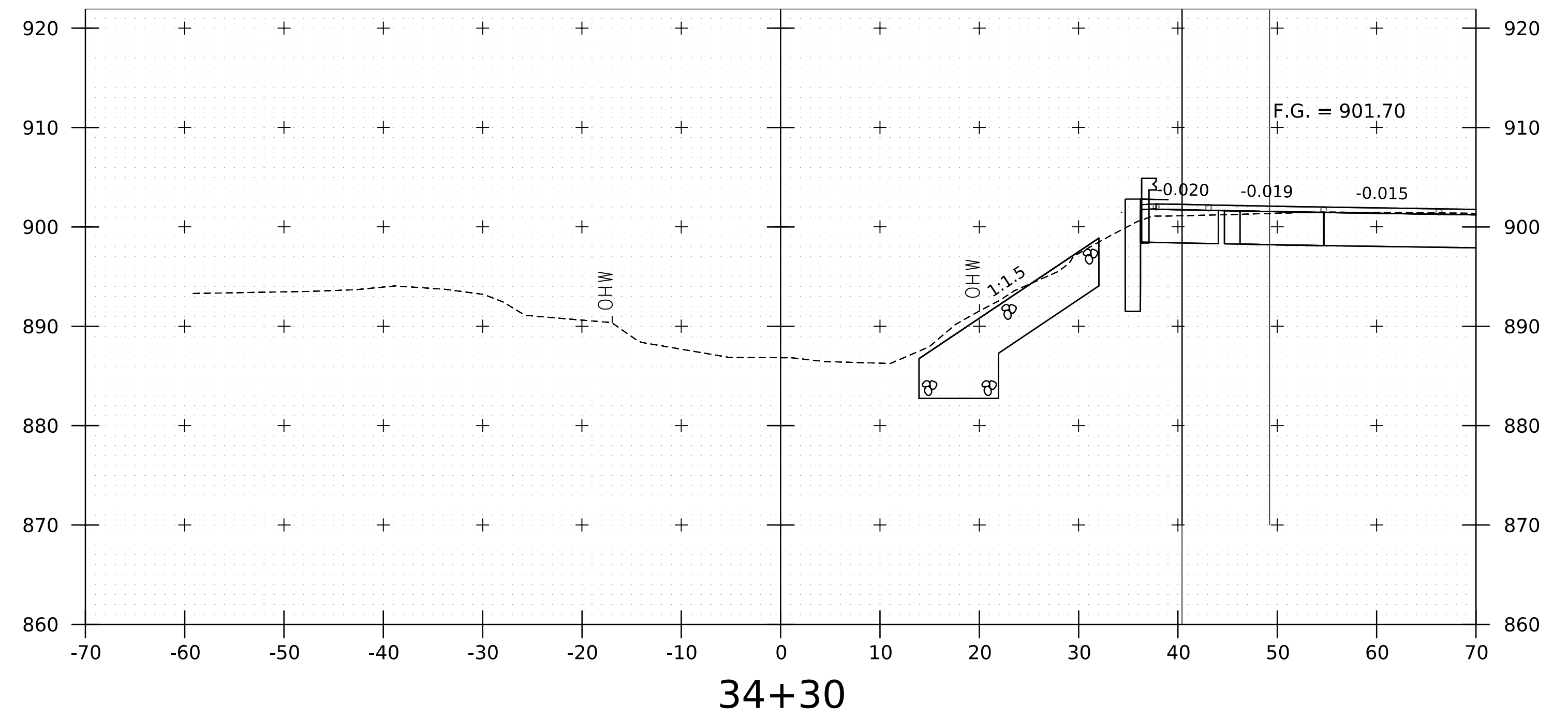
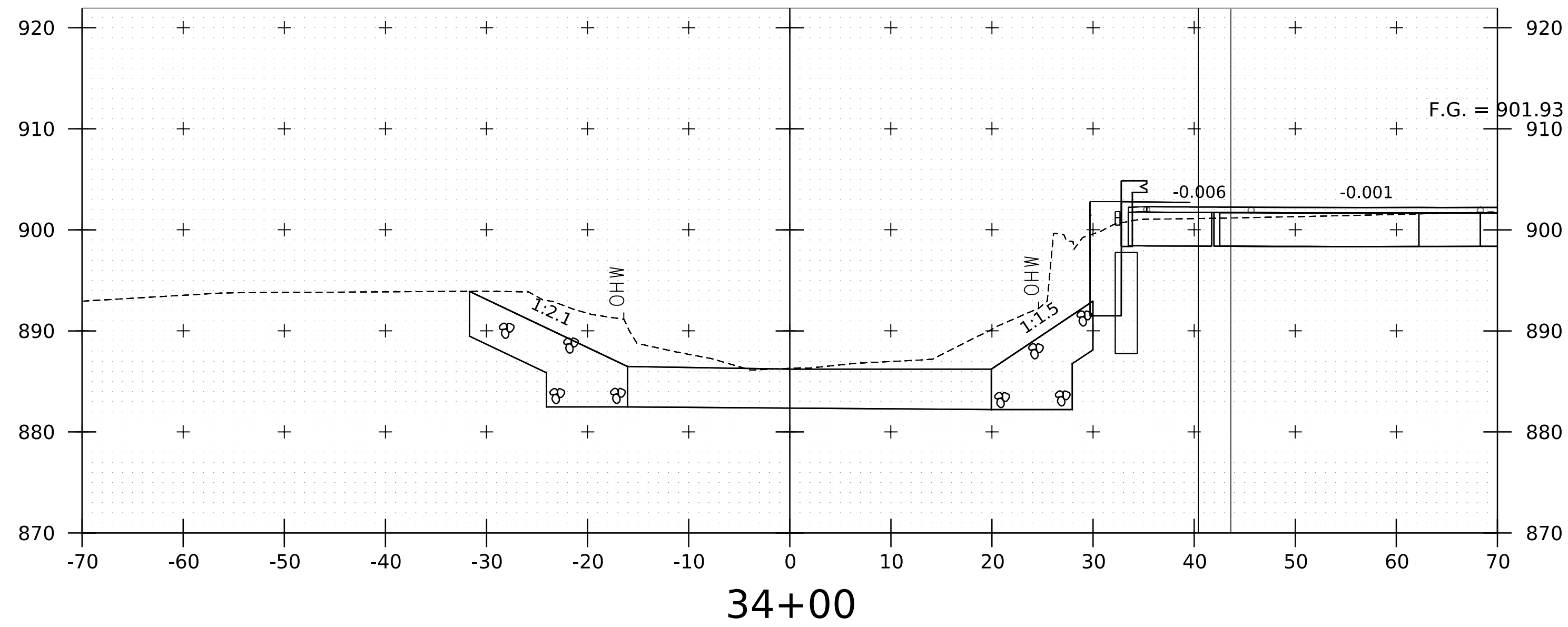
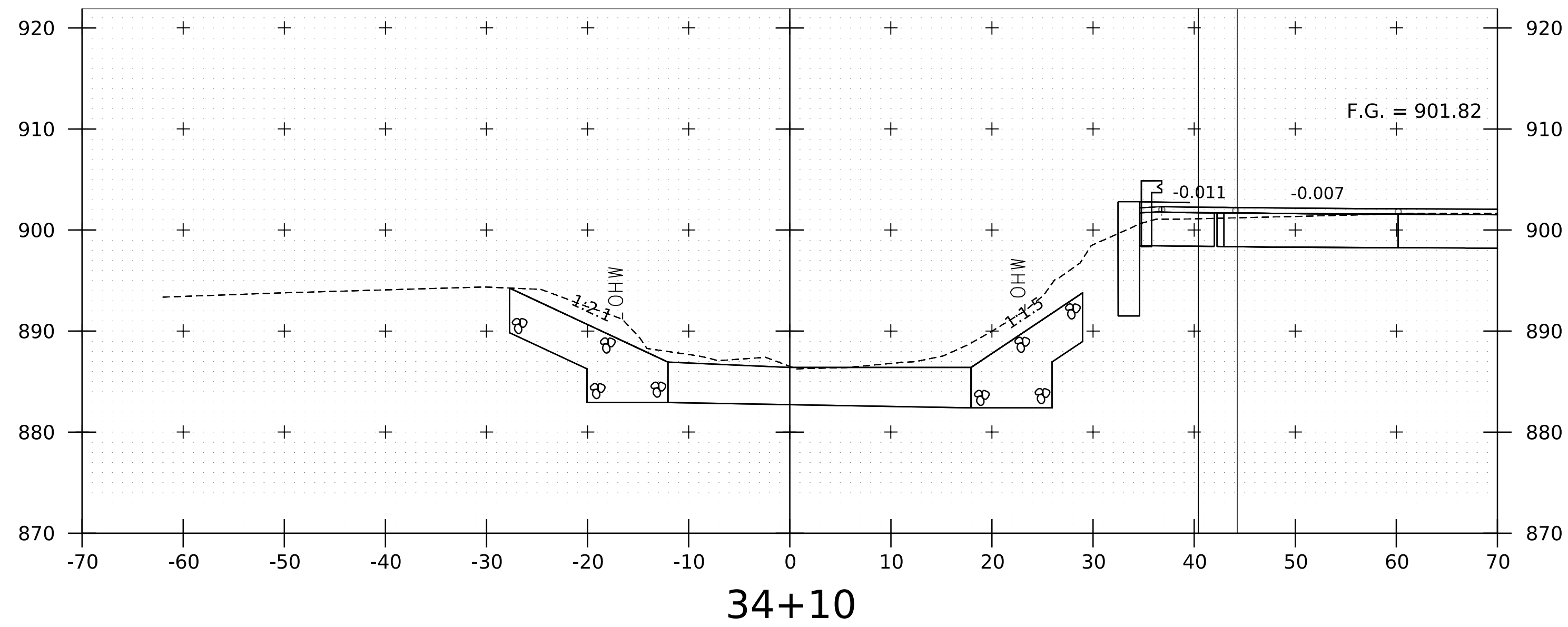


33+40

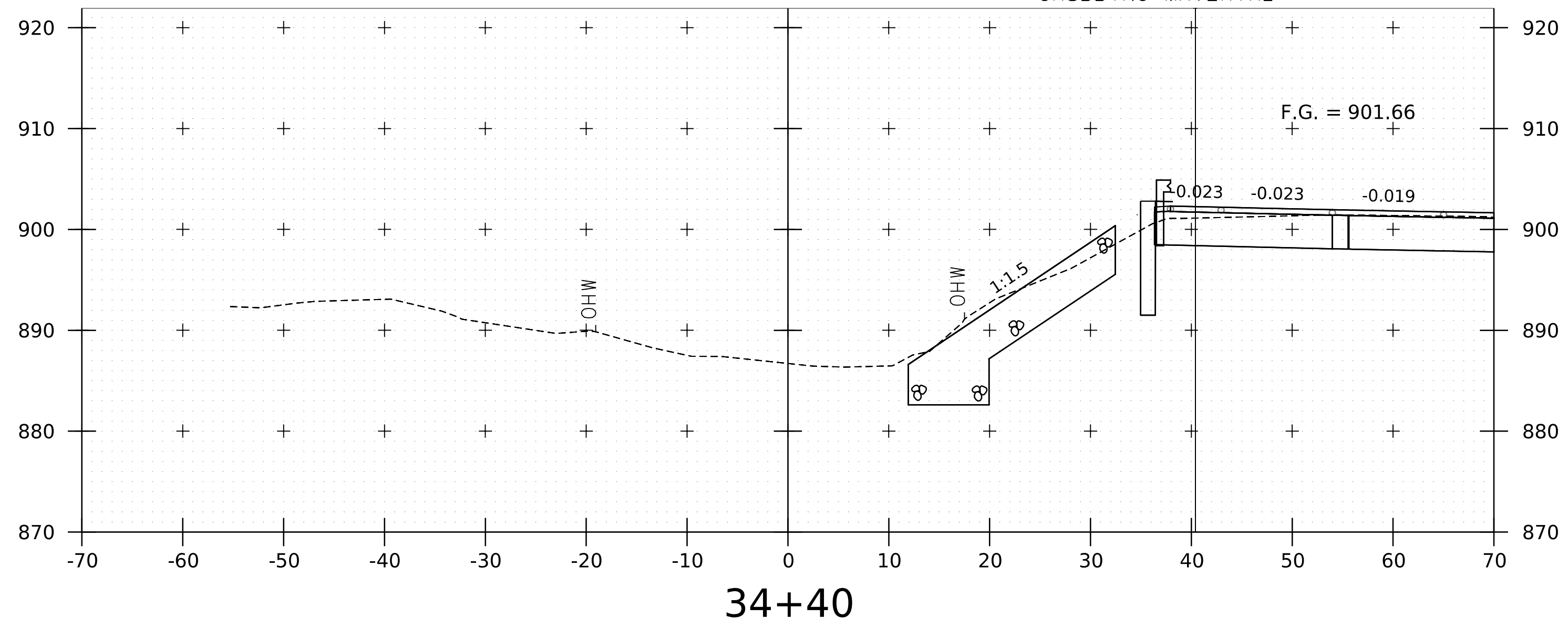
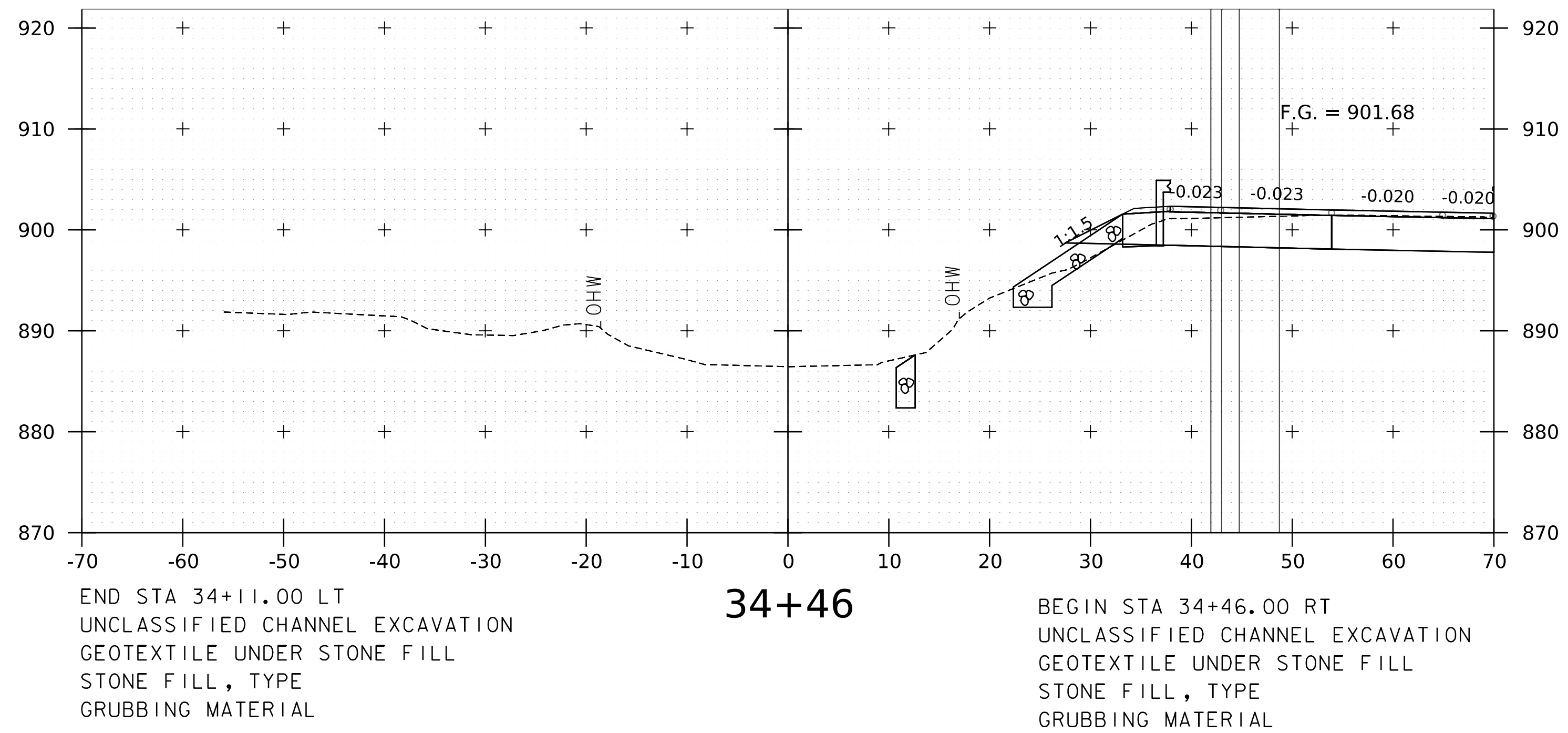
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029ChannelXS.dgn	DESIGNED BY:	J. PAQUETTE
PROJECT LEADER:	C. COTA	CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS 2		SHEET	40 OF 56



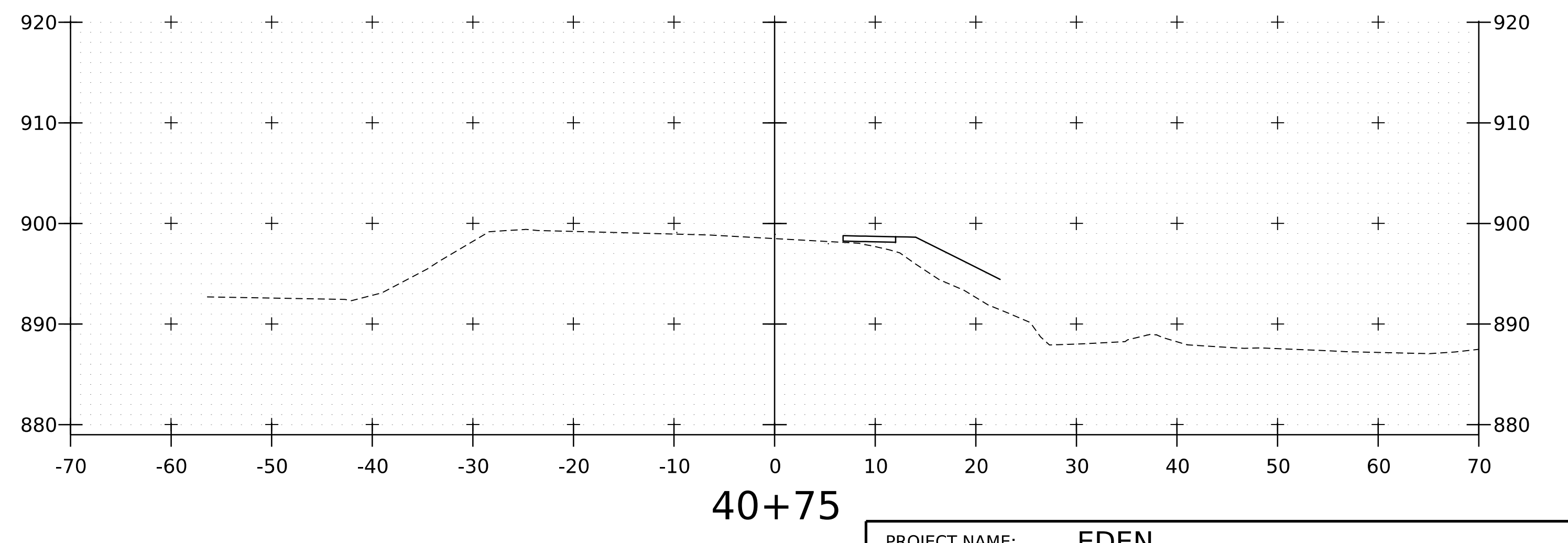
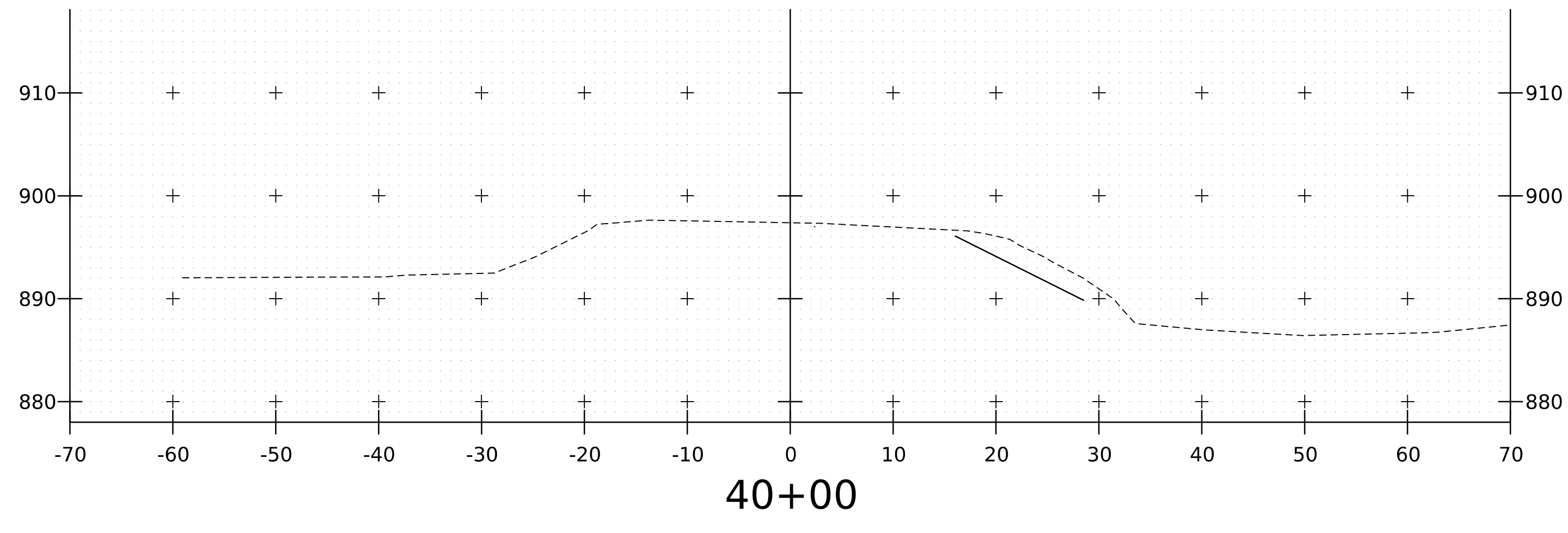
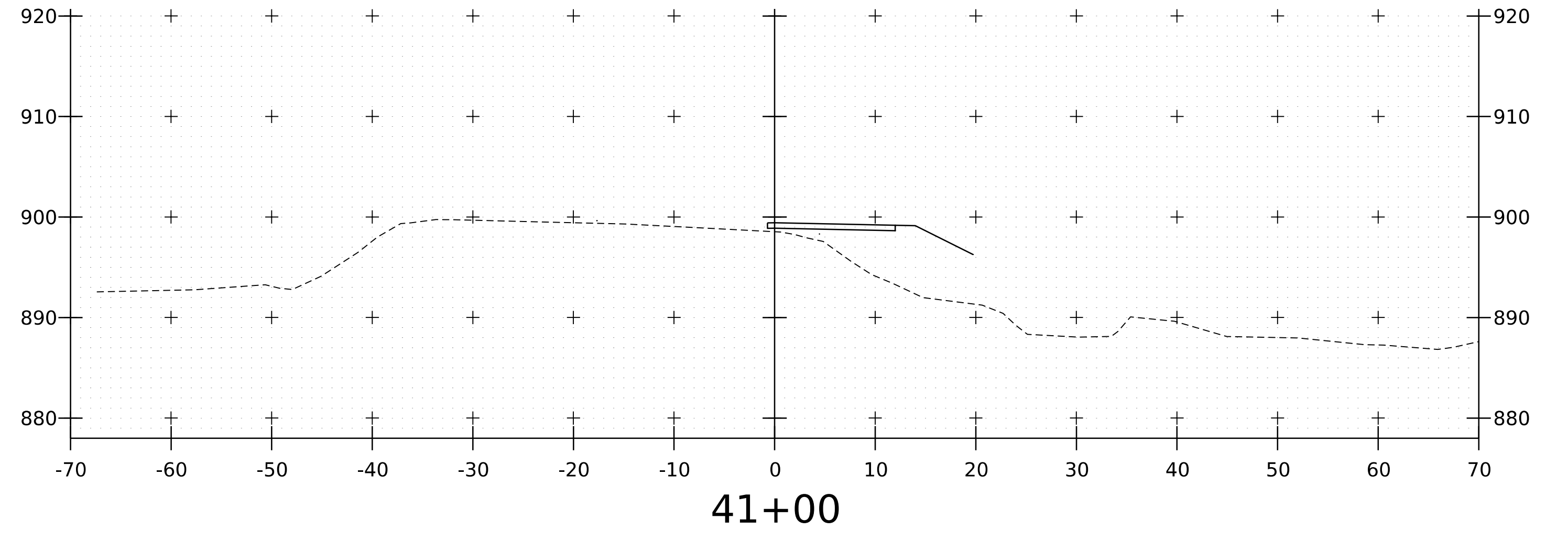
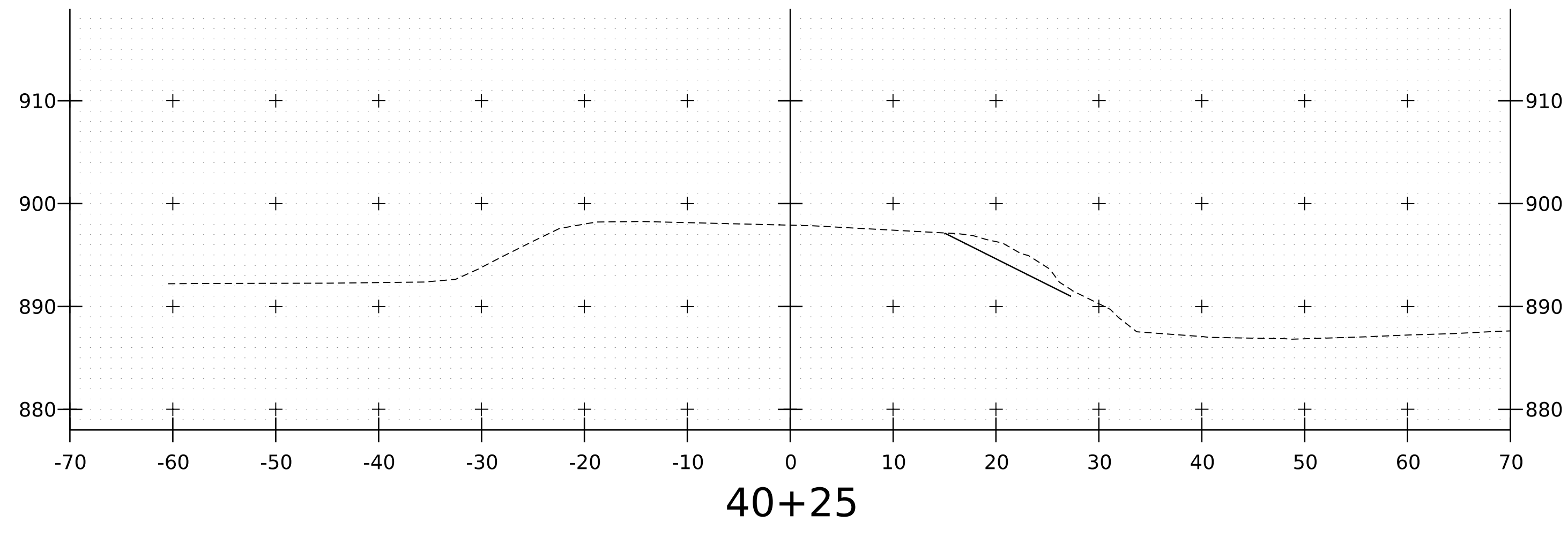
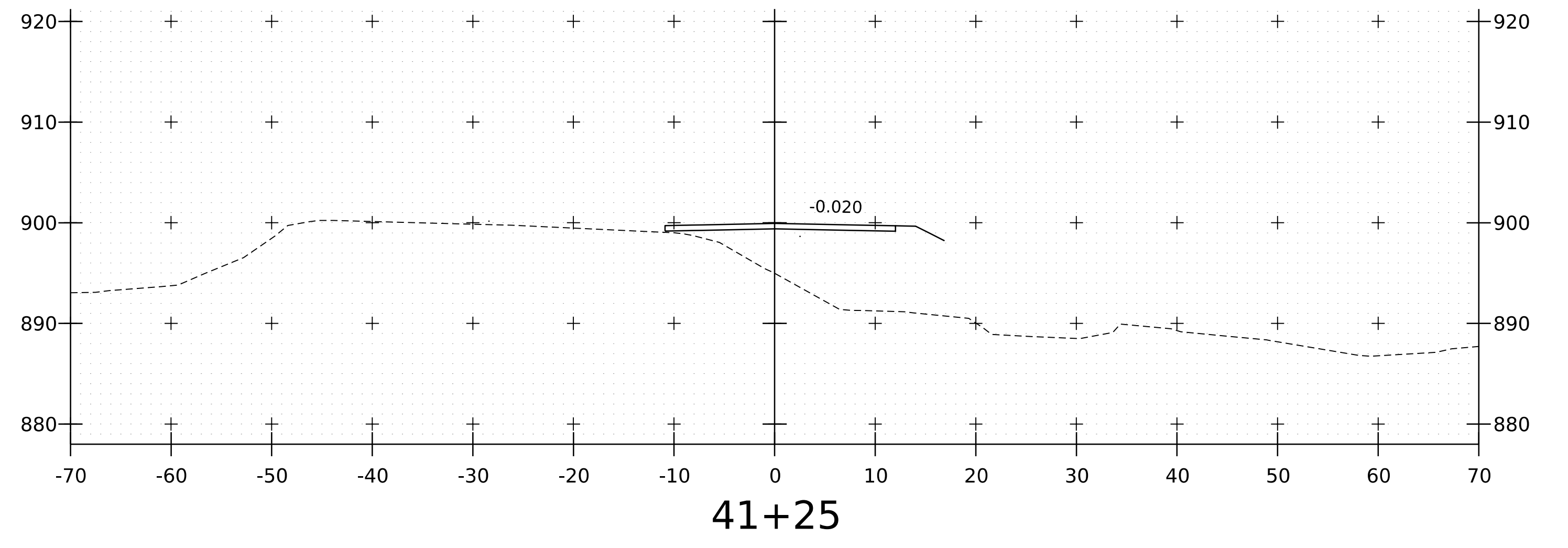
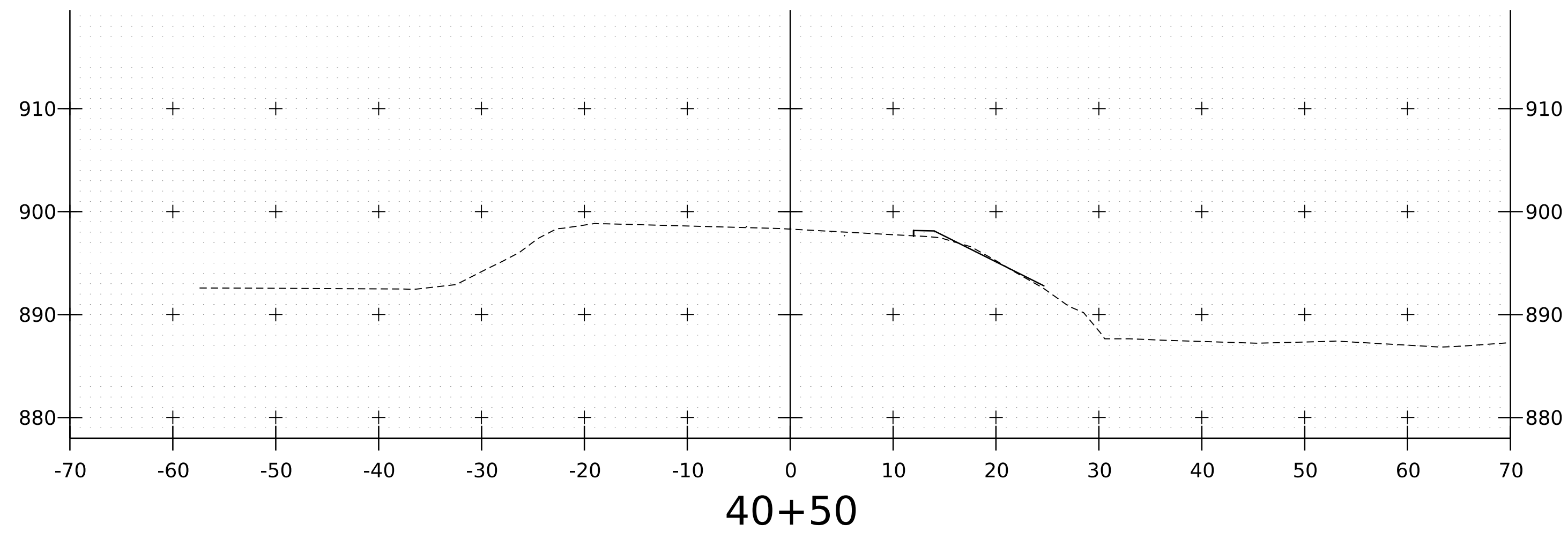
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029ChannelXS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	41 OF 56
DESIGNED BY:	J. PAQUETTE	CHANNEL CROSS SECTIONS	3



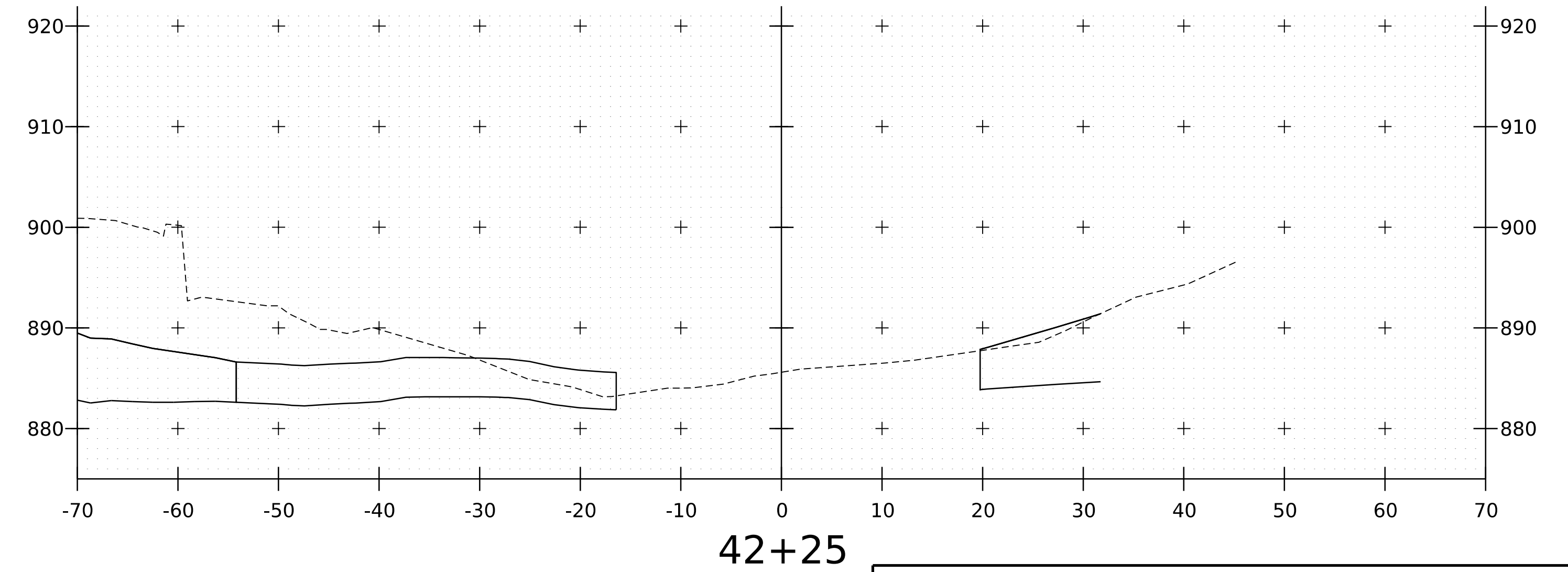
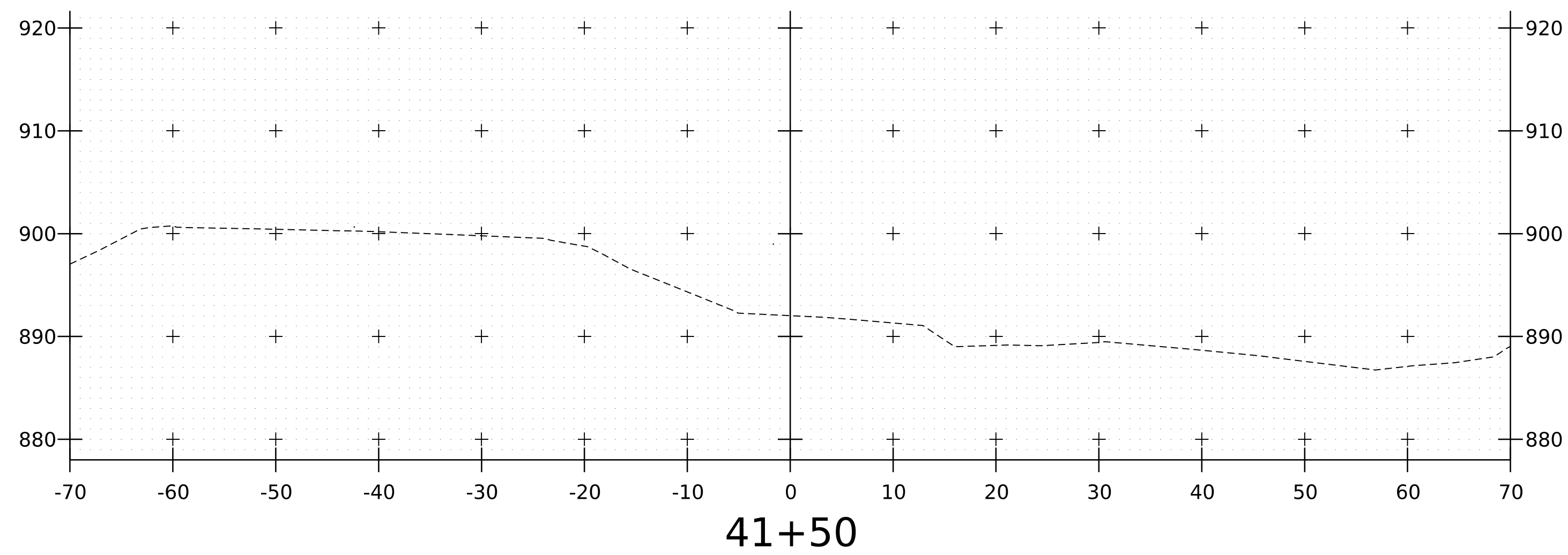
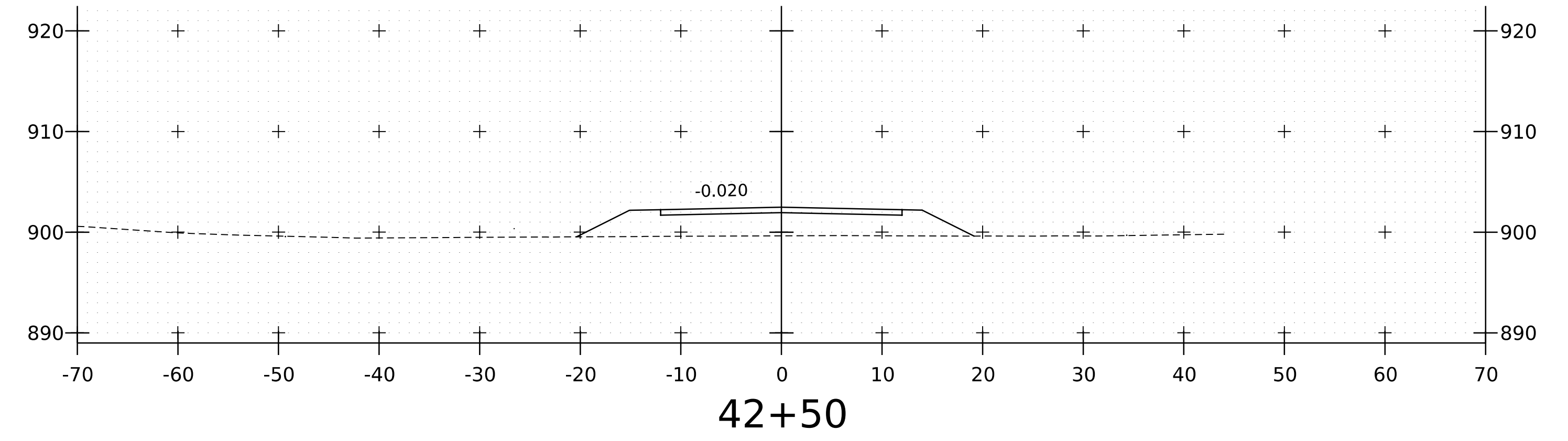
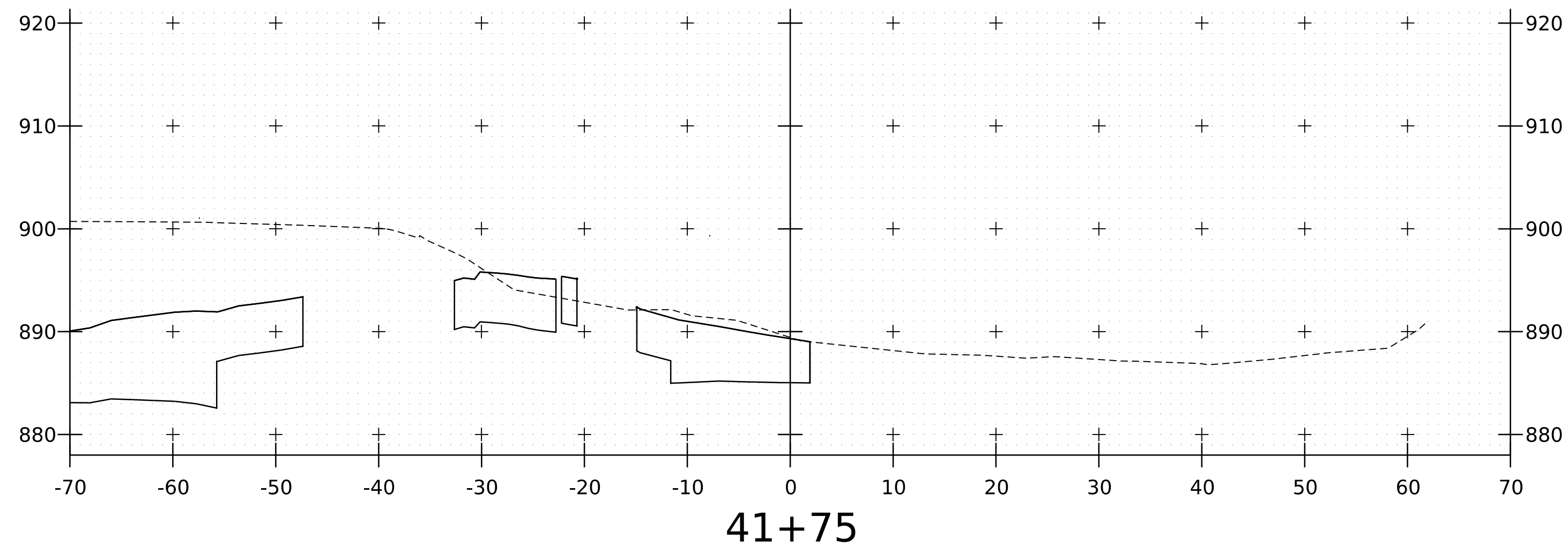
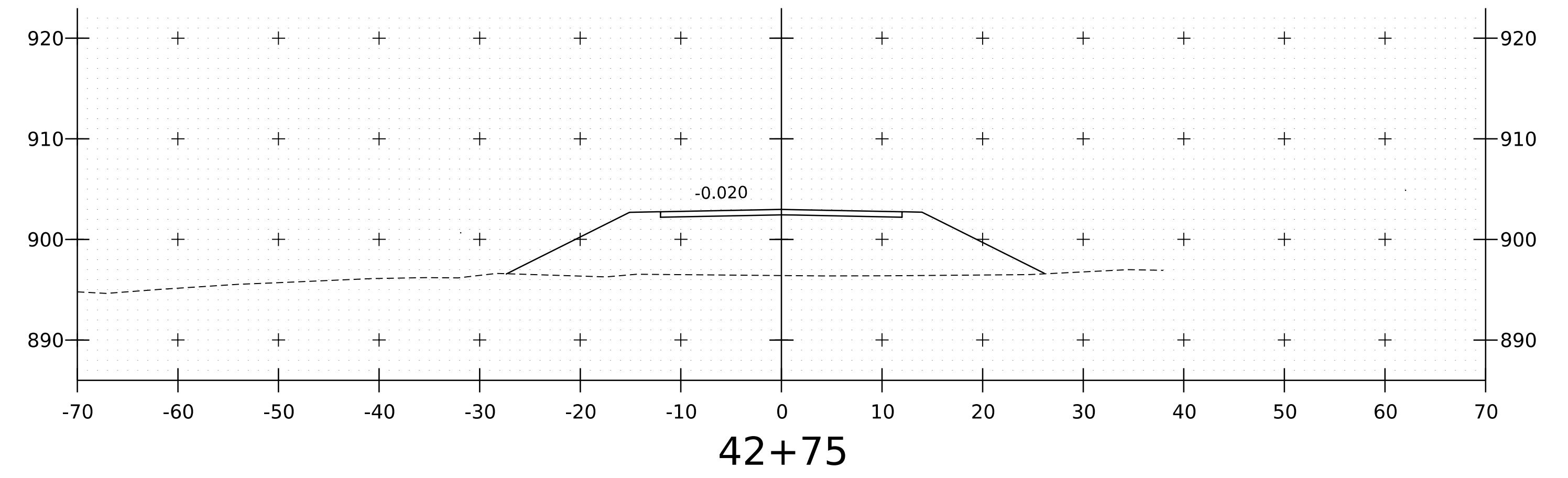
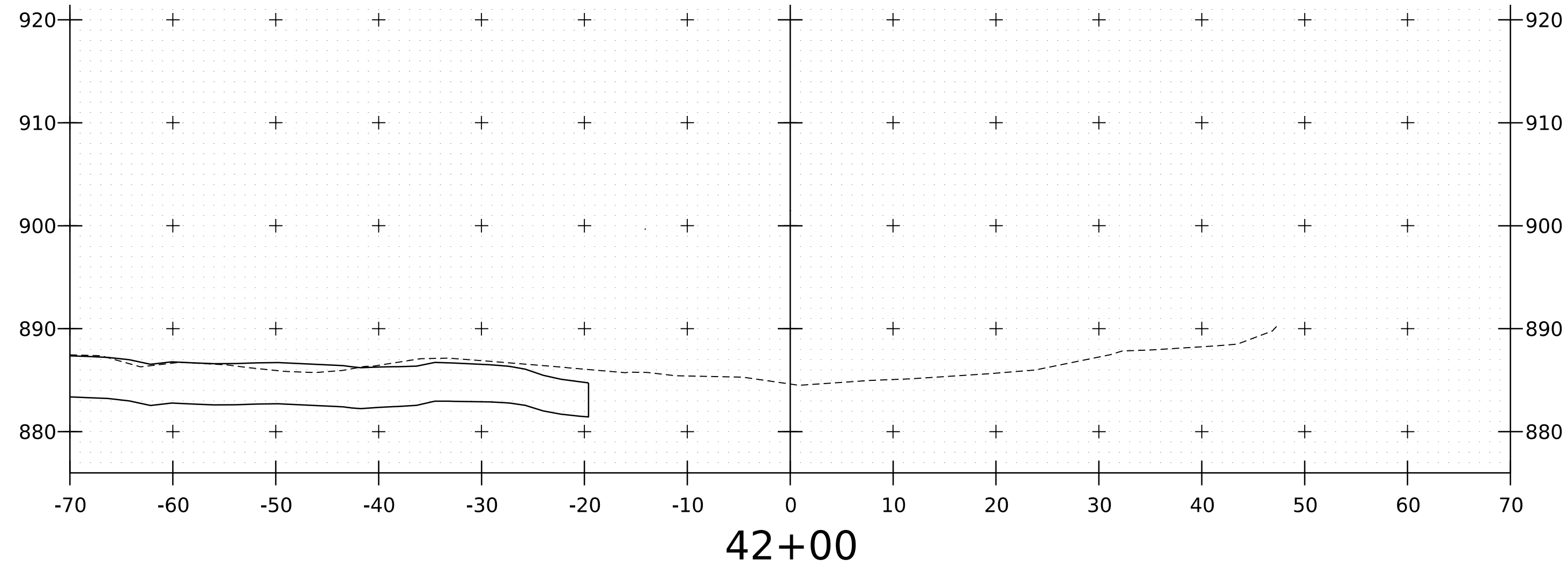
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s2b029ChannelXS2.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	42 OF 56
DESIGNED BY:	J. PAQUETTE		
CHANNEL CROSS SECTIONS	4		



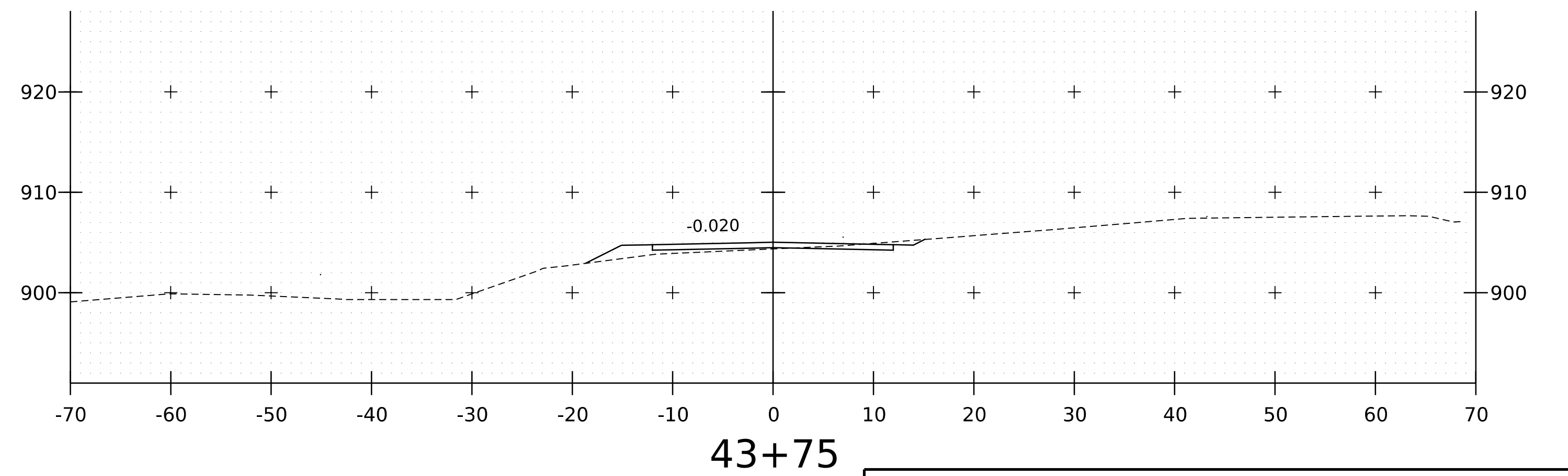
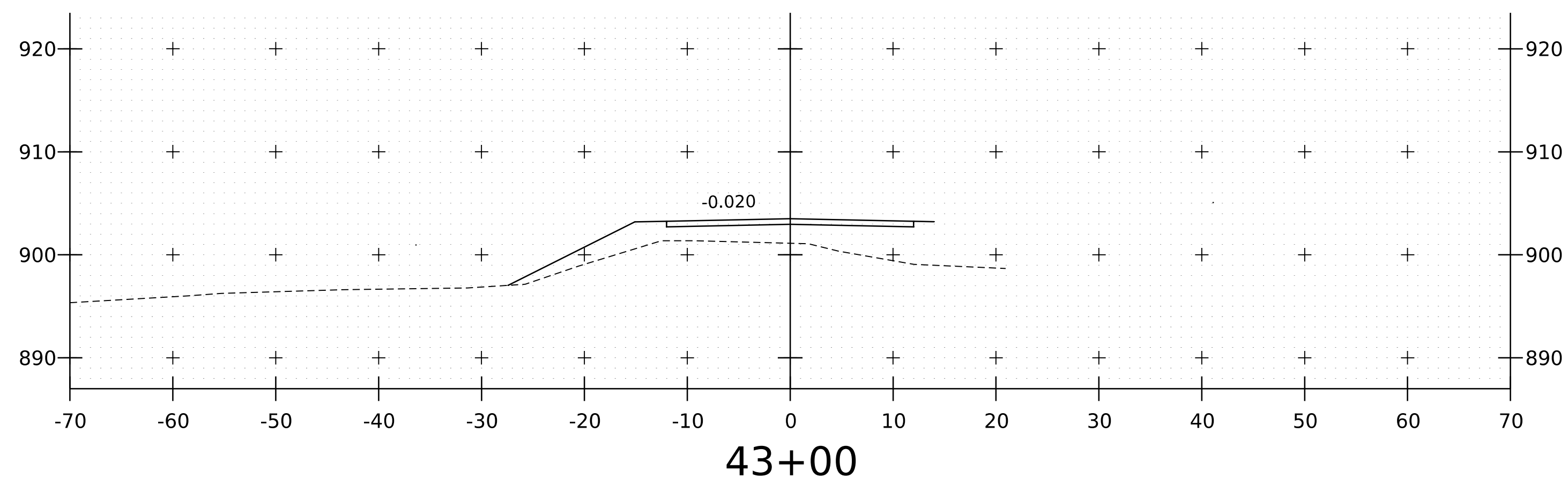
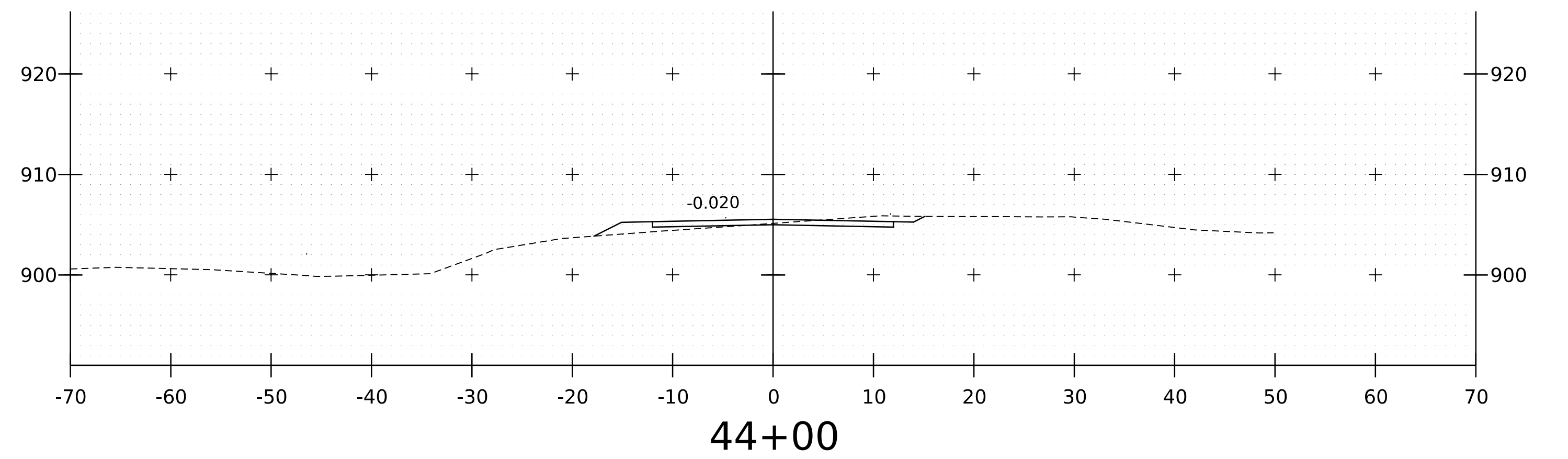
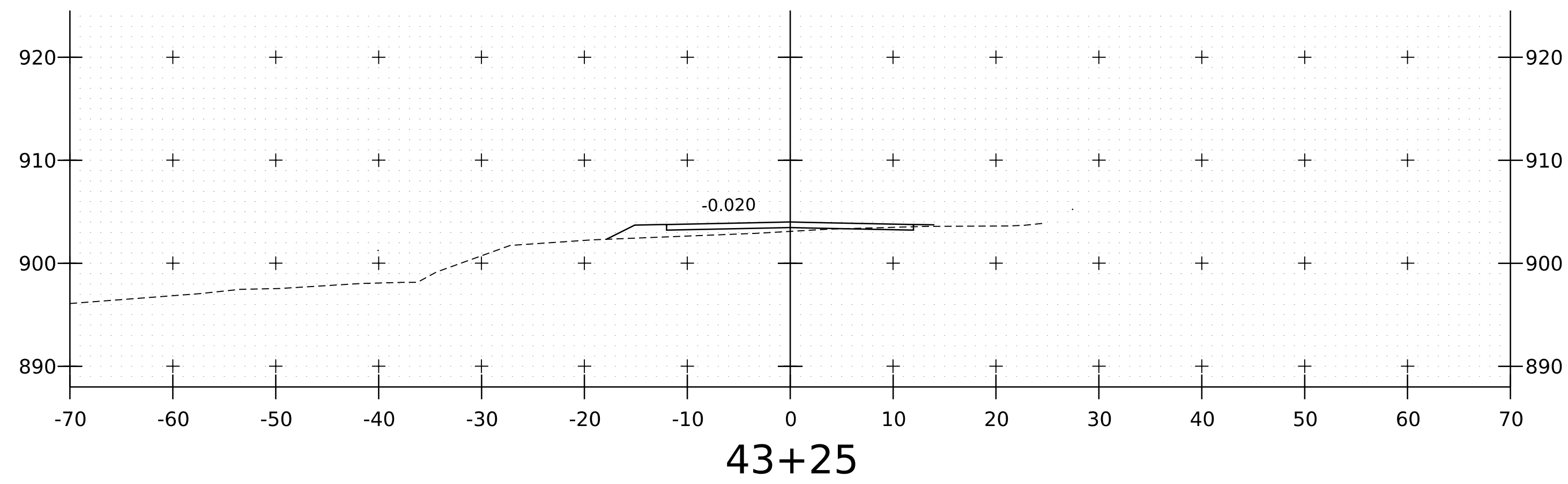
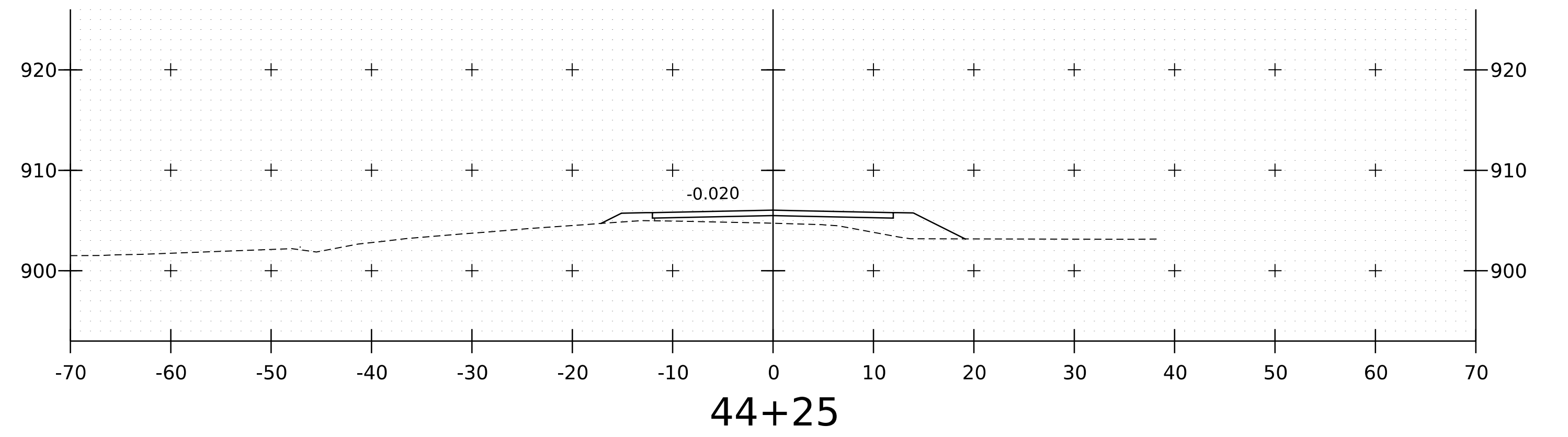
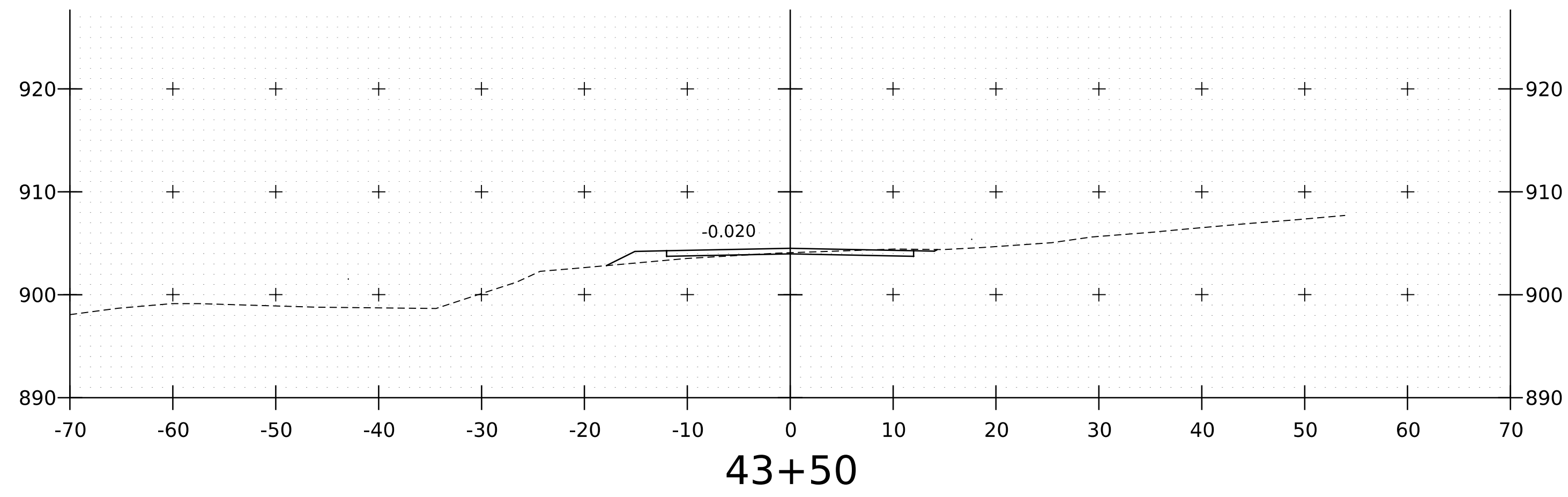
PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: J. PAQUETTE
FILE NAME: s2b029ChannelXS2.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 43 OF 56
DESIGNED BY: J. PAQUETTE	
CHANNEL CROSS SECTIONS 5	



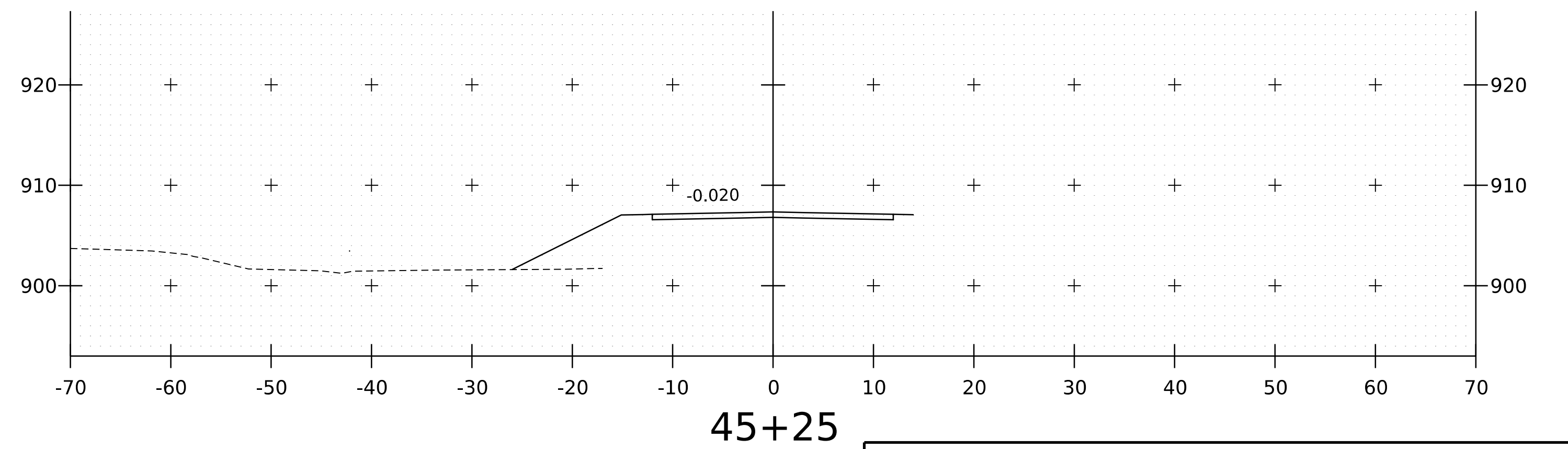
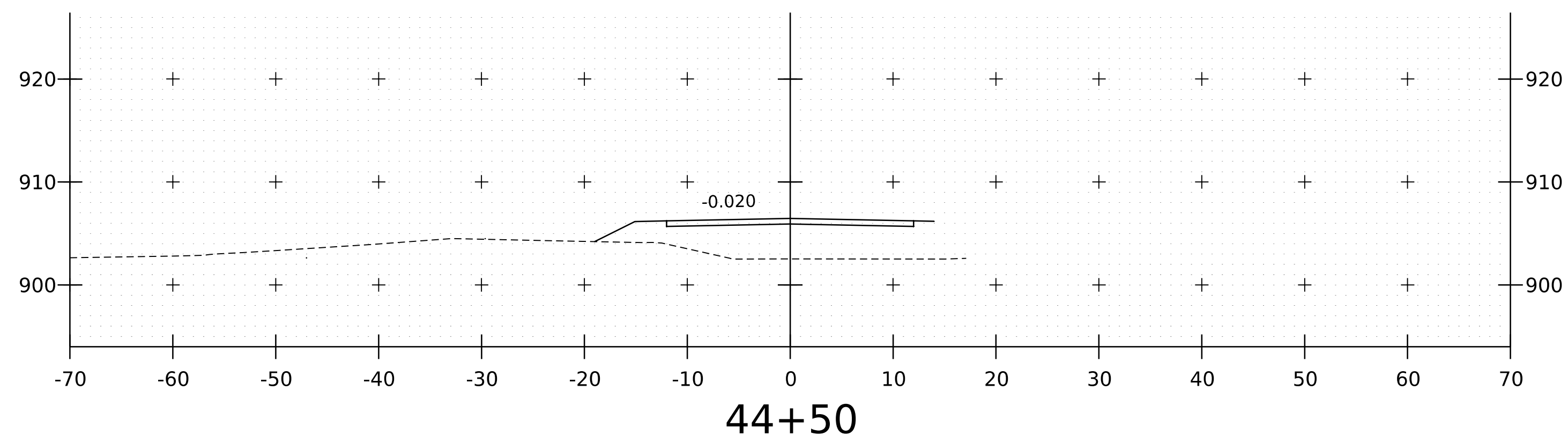
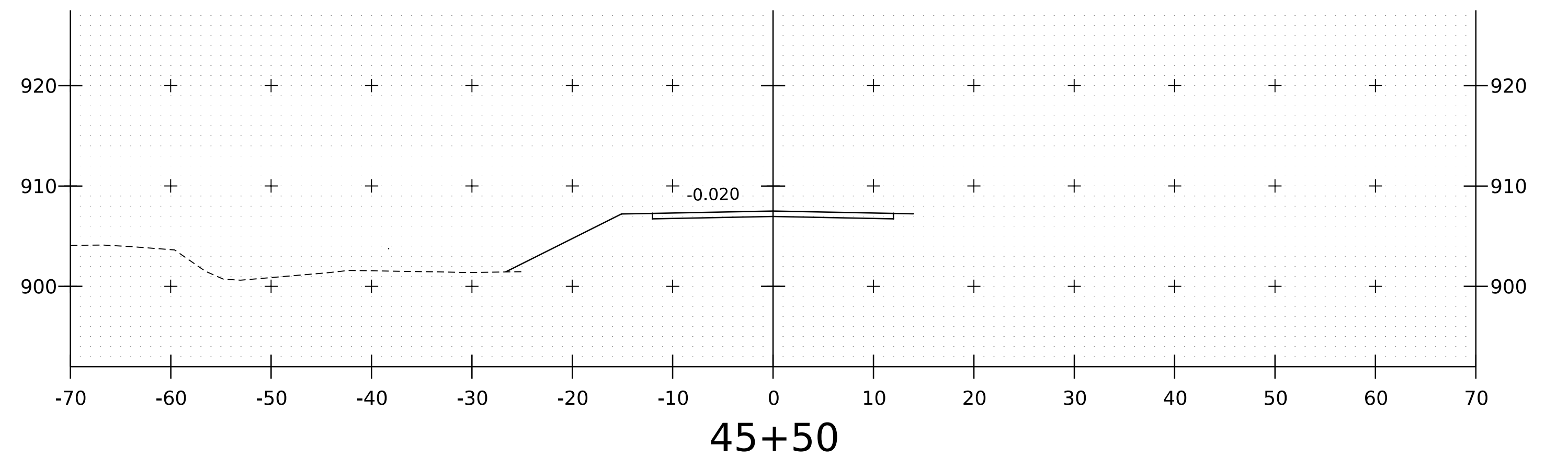
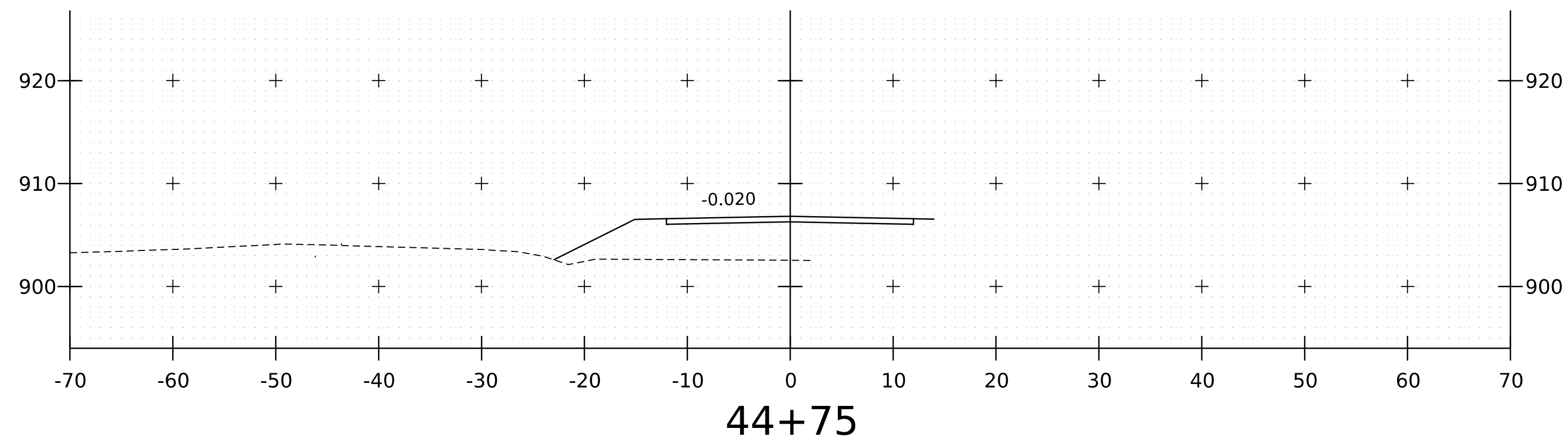
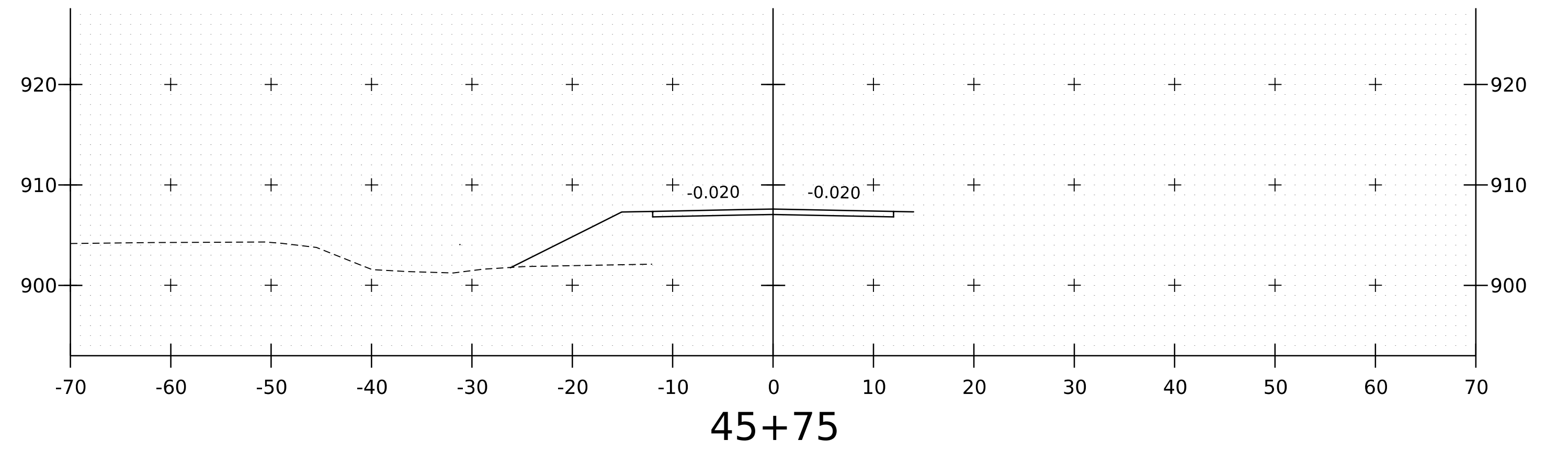
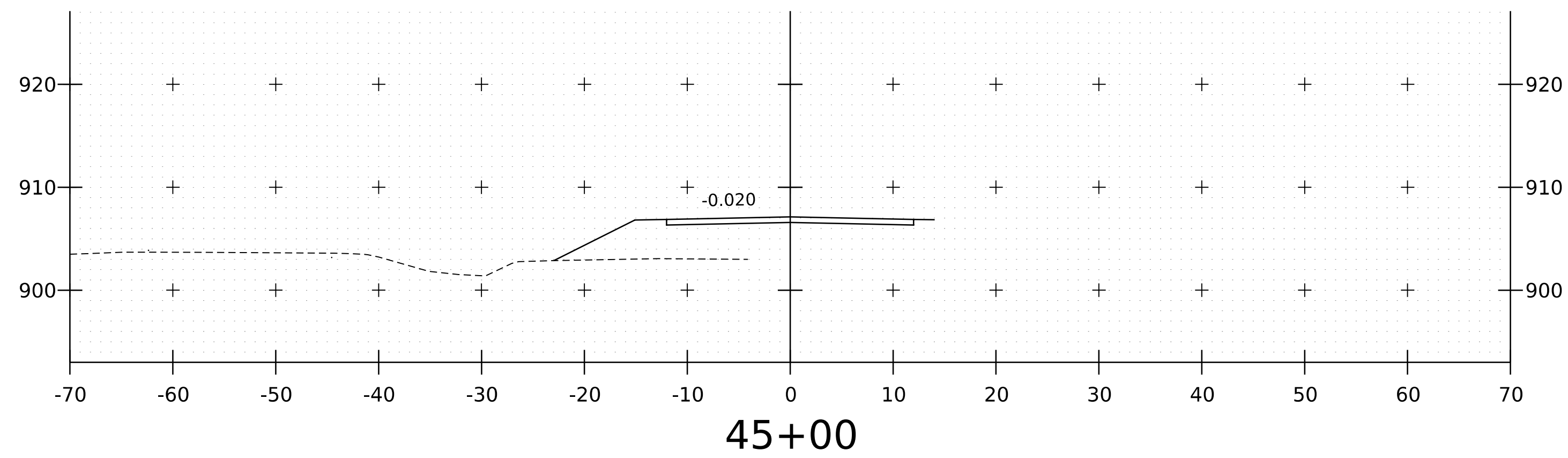
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029temp_XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	44 OF 56
DESIGNED BY:	J. PAQUETTE		
DETOUR CROSS SECTIONS 1			



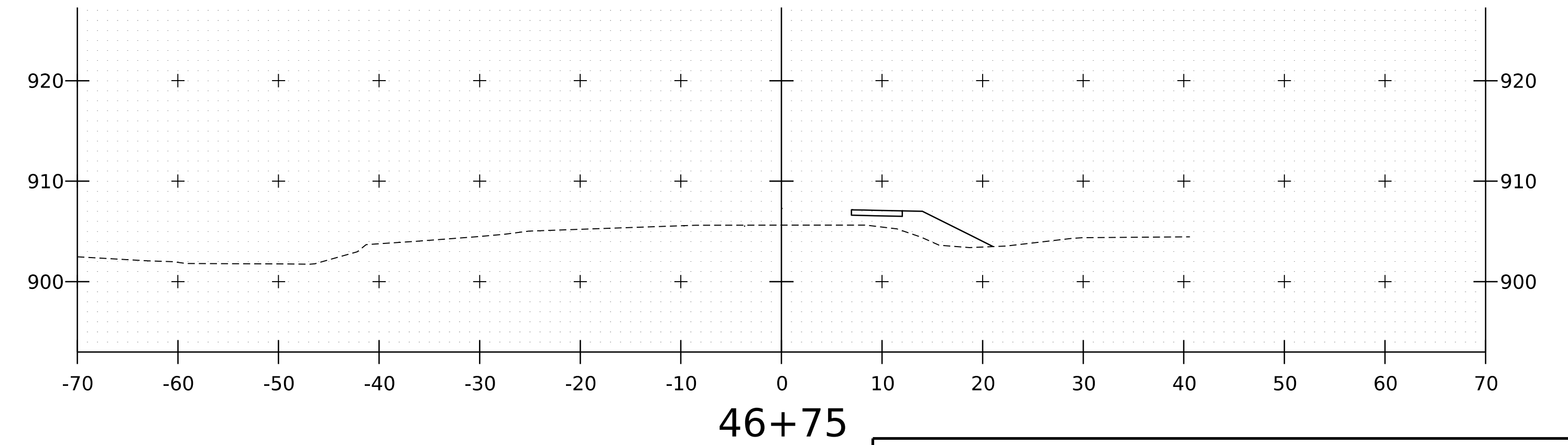
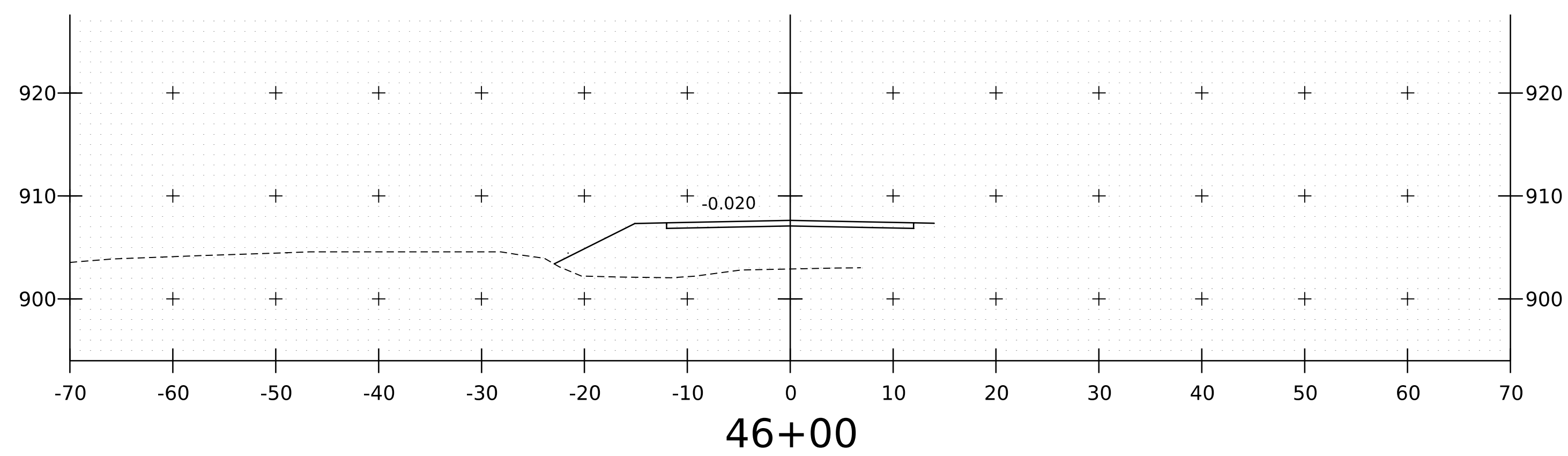
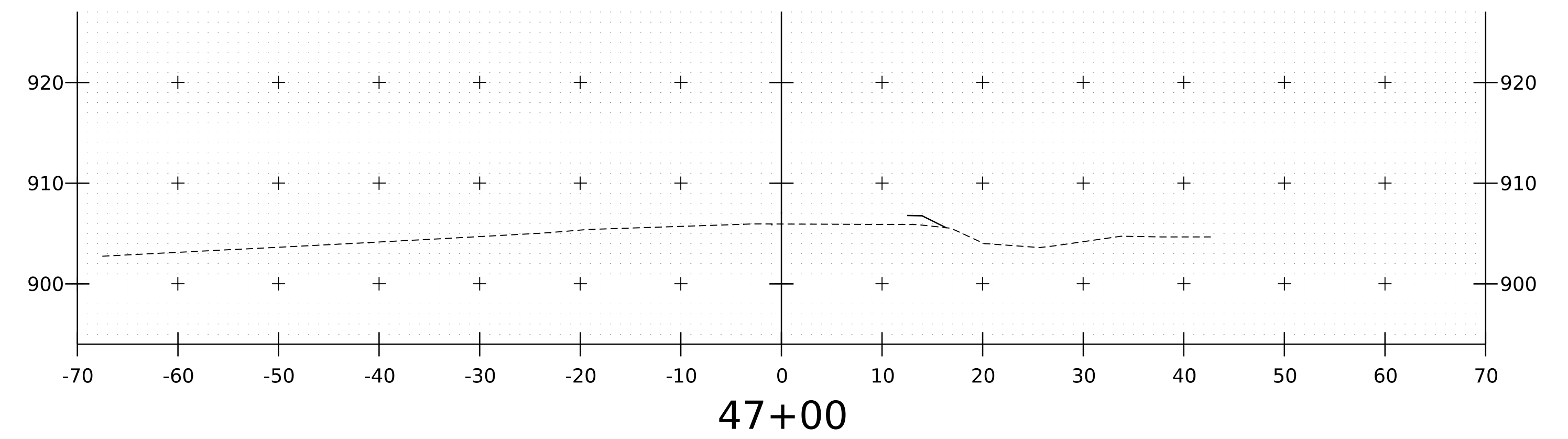
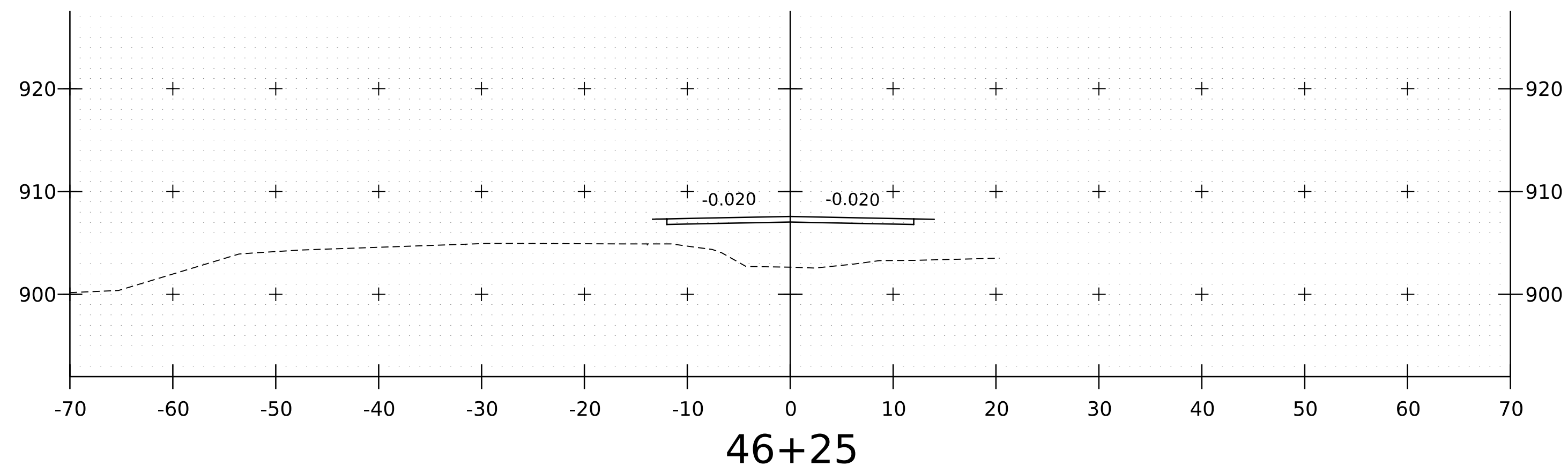
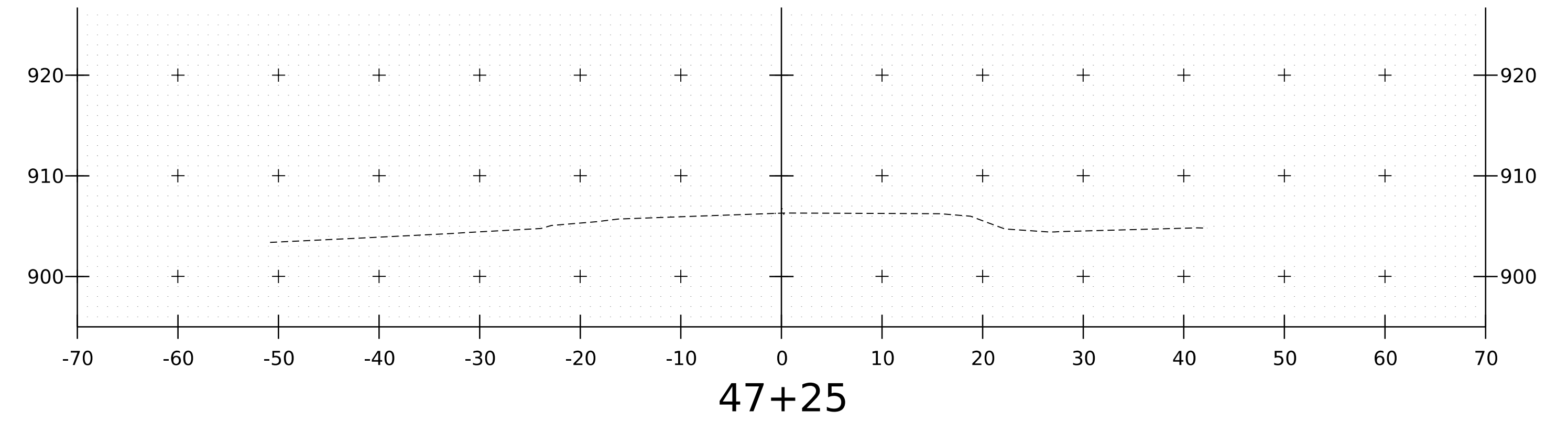
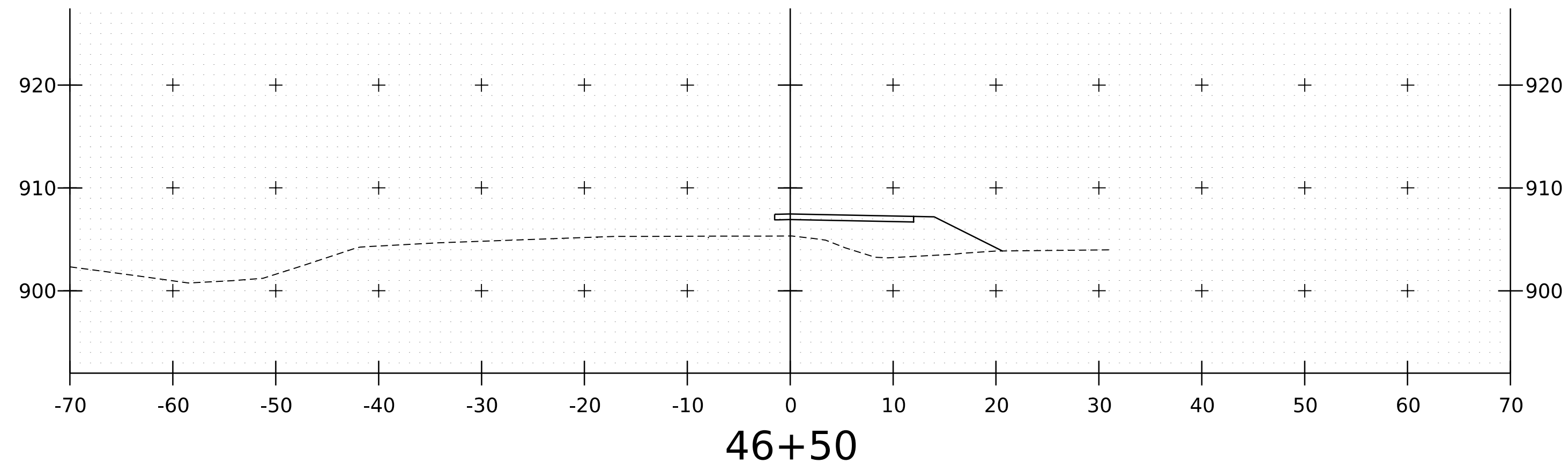
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029temp_XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	45 OF 56
DESIGNED BY:	J. PAQUETTE		
DEOUTR CROSS SECTIONS 2			



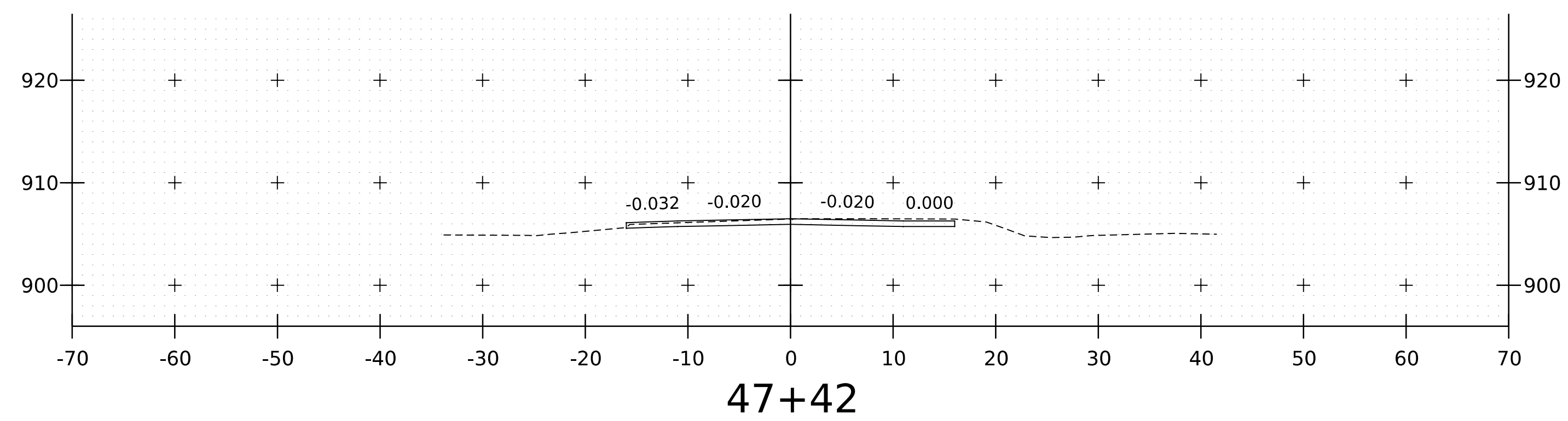
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PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029temp_XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	DETOUR CROSS SECTIONS	3
DESIGNED BY:	J. PAQUETTE	SHEET	46 OF 56



PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029temp_XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	47 OF 56
DESIGNED BY:	J. PAQUETTE		
DETOUR CROSS SECTIONS 4			



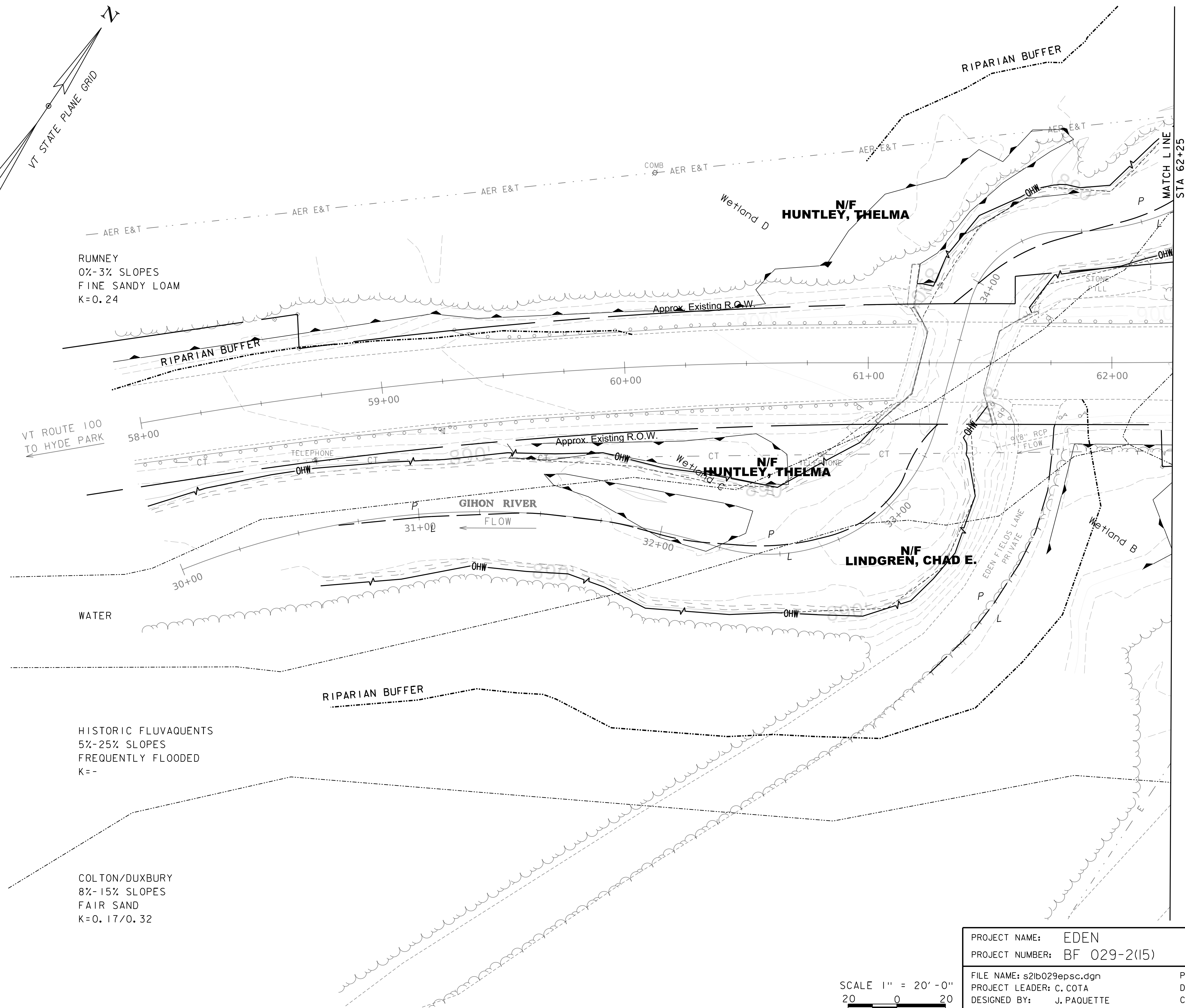
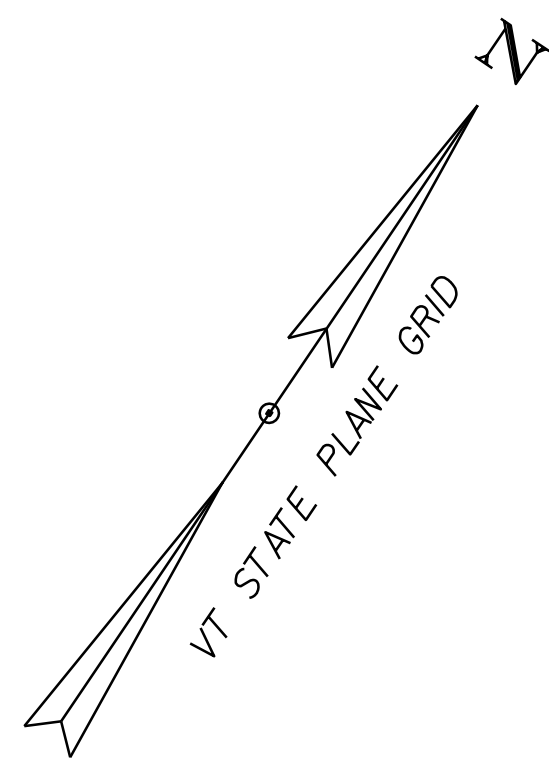
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	J. PAQUETTE
FILE NAME:	s21b029temp_XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	48 OF 56
DESIGNED BY:	J. PAQUETTE		
DETOUR CROSS SECTIONS 5			



PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)

FILE NAME: s21b029temp_XS.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 DETOUR CROSS SECTIONS 6

PLOT DATE: 6-MAY-2024
 DRAWN BY: J. PAQUETTE
 CHECKED BY: D. PETERSON
 SHEET 49 OF 56



RUMNEY
 0%-3% SLOPES
 FINE SANDY LOAM
 K=0.24

HISTORIC FLUVAQUENTS
 5%-25% SLOPES
 FREQUENTLY FLOODED
 K=-

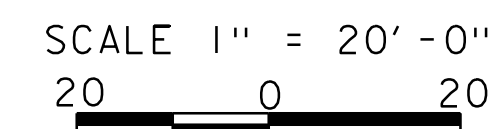
COLTON/DUXBURY
 8%-15% SLOPES
 FAIR SAND
 K=0.17/0.32

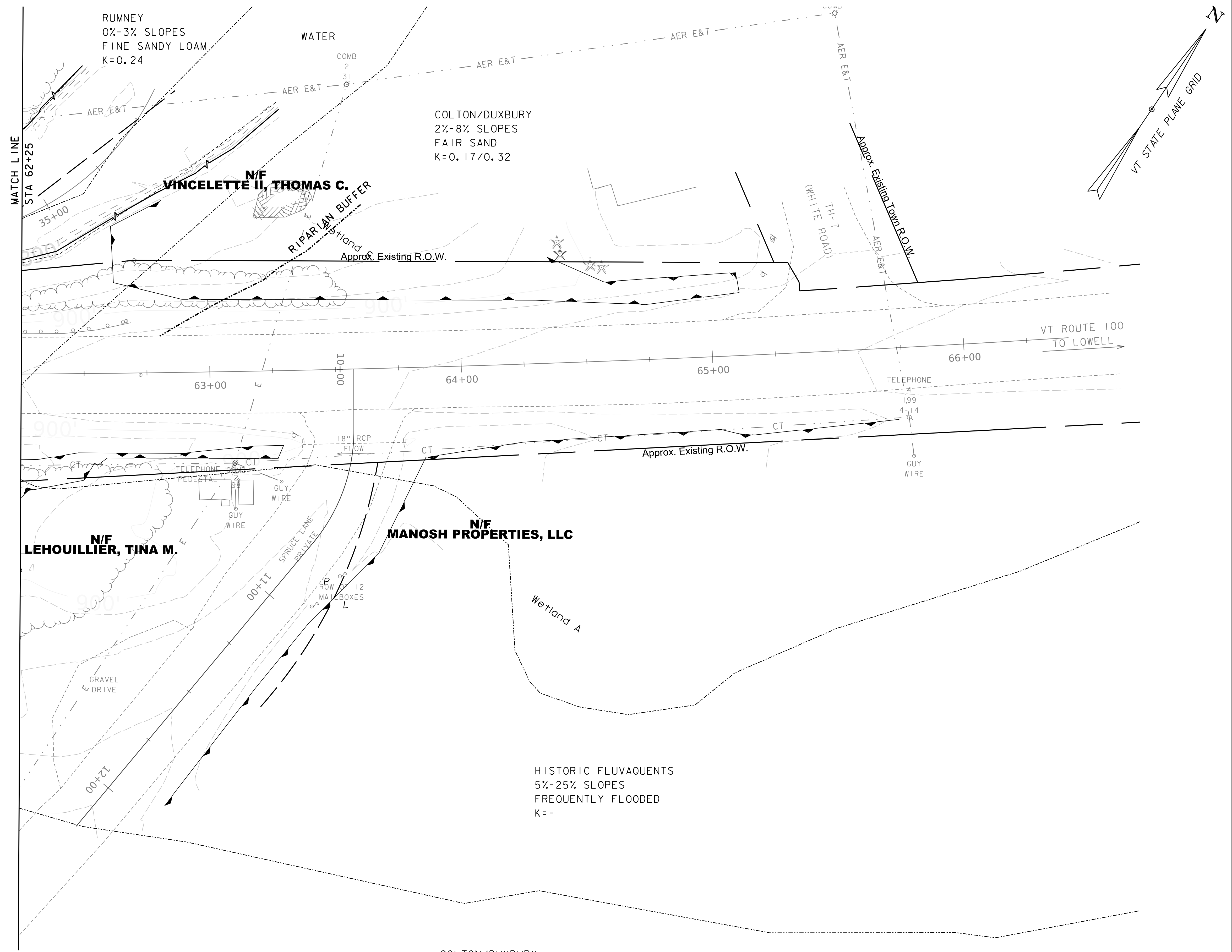
MATCH LINE
 STA 62+25

PROJECT NAME: EDEN
 PROJECT NUMBER: BF 029-2(15)

FILE NAME: s2b029epsc.dgn
 PROJECT LEADER: C. COTA
 DESIGNED BY: J. PAQUETTE
 EXISTING CONDITIONS 1

PLOT DATE: 6-MAY-2024
 DRAWN BY: R. PELLETT
 CHECKED BY: D. PETERSON
 SHEET 50 OF 56





RUMNEY
0%-3% SLOPES
FINE SANDY LOAM
K=0.24

WATER

COLTON/DUXBURY
2%-8% SLOPES
FAIR SAND
K=0.17/0.32

N/F VINCELETTE II, THOMAS C.

RIPARIAN BUFFER

Approx. Existing R.O.W.

VT ROUTE 100
TO LOWELL

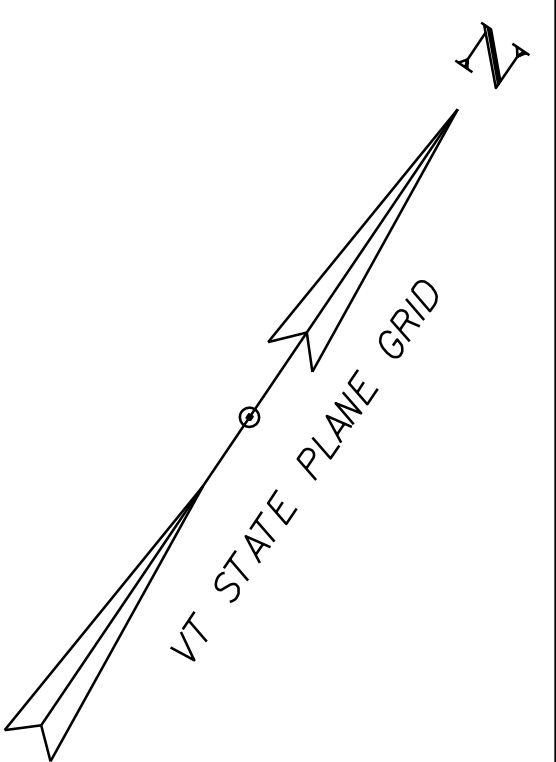
N/F LEHOULLIER, TINA M.

N/F MANOSH PROPERTIES, LLC

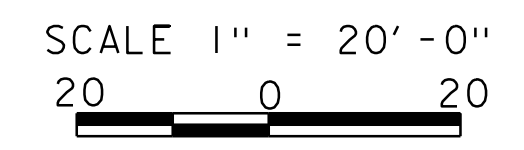
Wetland A

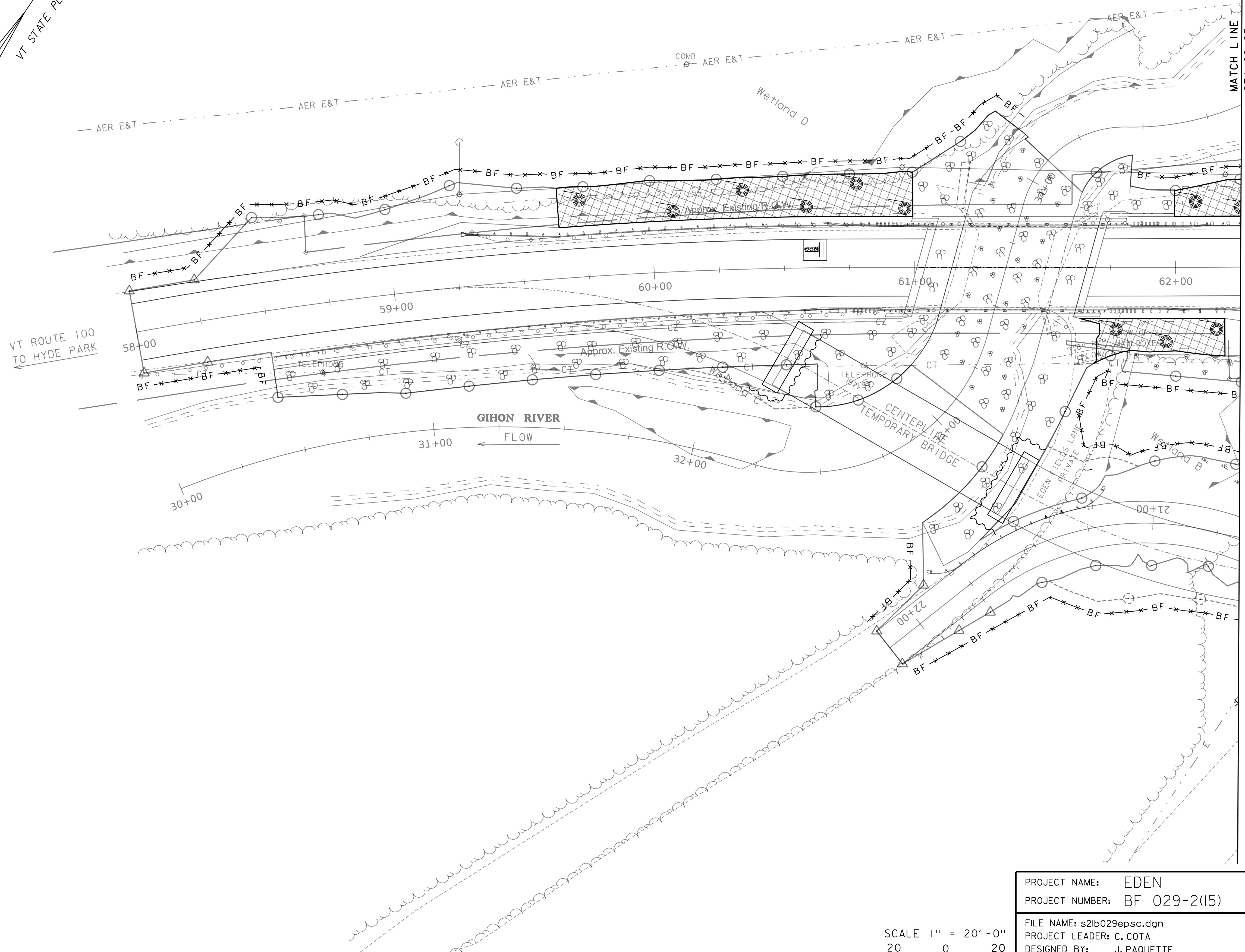
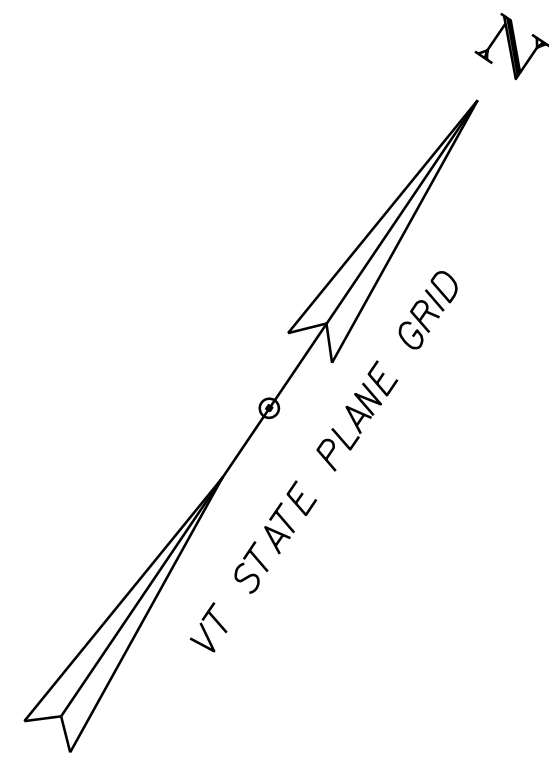
HISTORIC FLUVAQUENTS
5%-25% SLOPES
FREQUENTLY FLOODED
K=-

COLTON/DUXBURY
8%-15% SLOPES
FAIR SAND
K=0.17/0.32



PROJECT NAME: EDEN	PLOT DATE: 6-MAY-2024
PROJECT NUMBER: BF 029-2(15)	DRAWN BY: R. PELLETT
FILE NAME: s2b029epsc.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. COTA	SHEET 51 OF 56
DESIGNED BY: J. PAQUETTE	
EXISTING CONDITIONS 2	





VT ROUTE 100
TO HYDE PARK

GIHON RIVER

FLOW

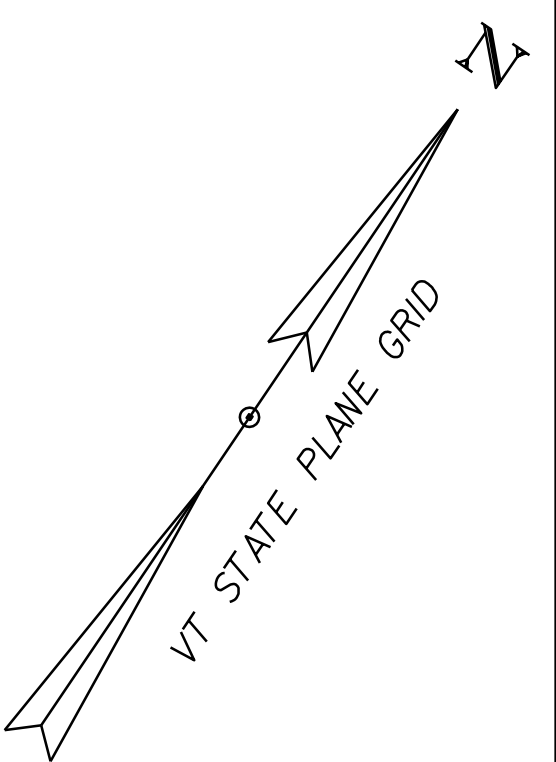
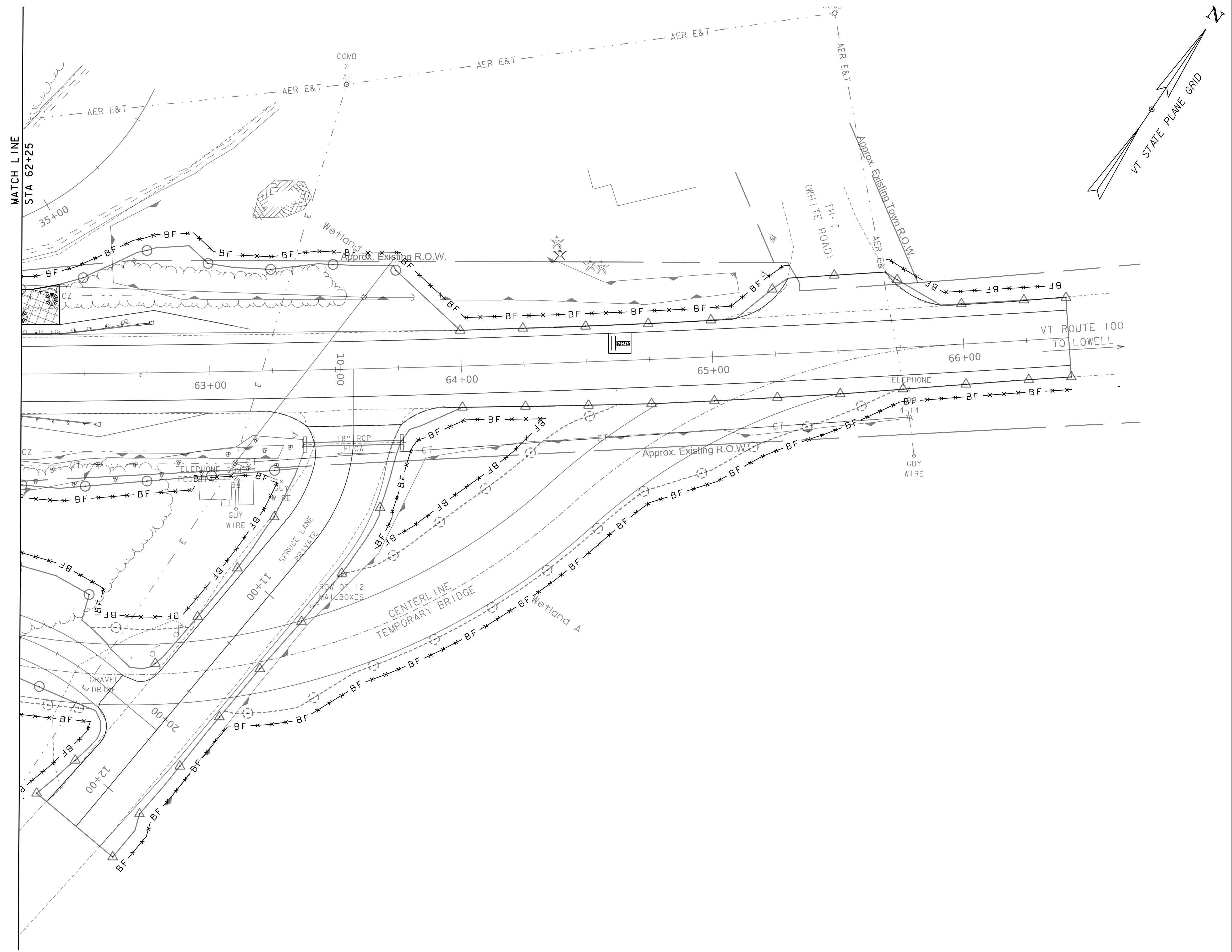
CENTERLINE
TEMPORARY
BRIDGE

EDEN FIELDS
PRIVATE LANE

MATCH LINE
STA 62+25

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

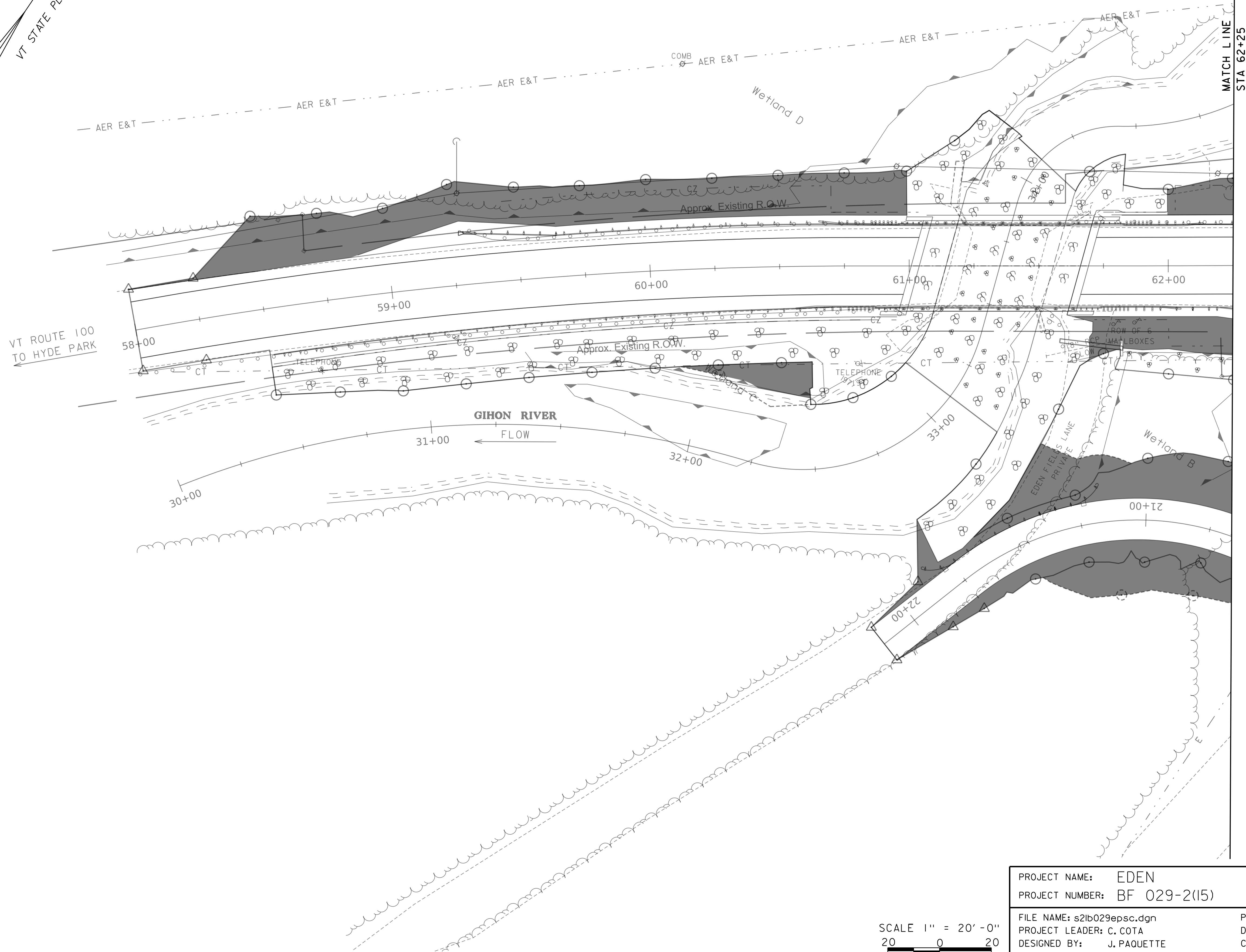
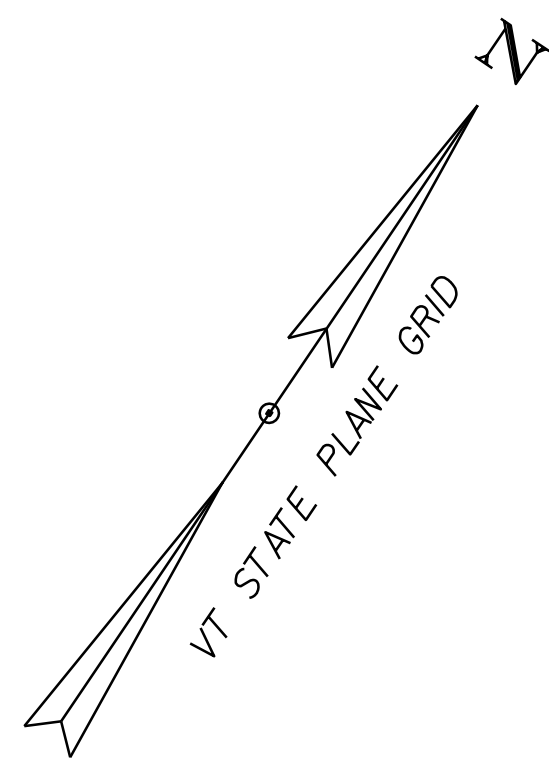
PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	R. PELLETT
FILE NAME:	s21b029epsc.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	52 OF 56
DESIGNED BY:	J. PAQUETTE		
CONSTRUCTION SITE PLAN I			



MATCH LINE
STA 62+25

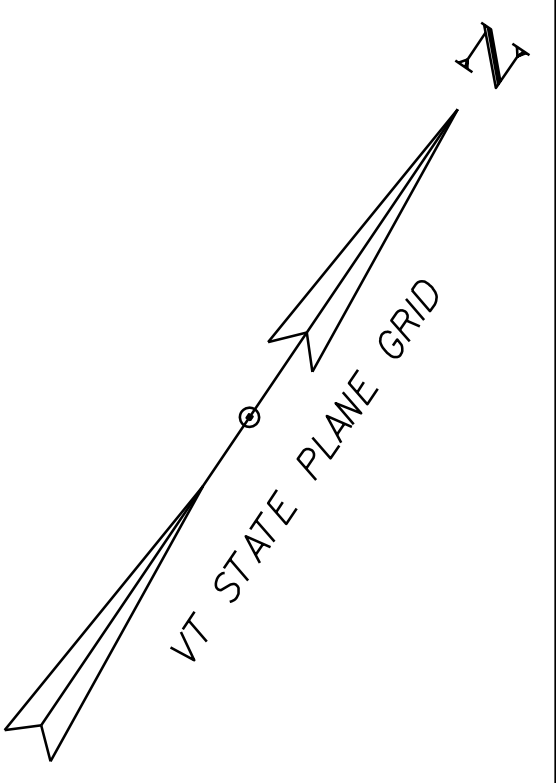
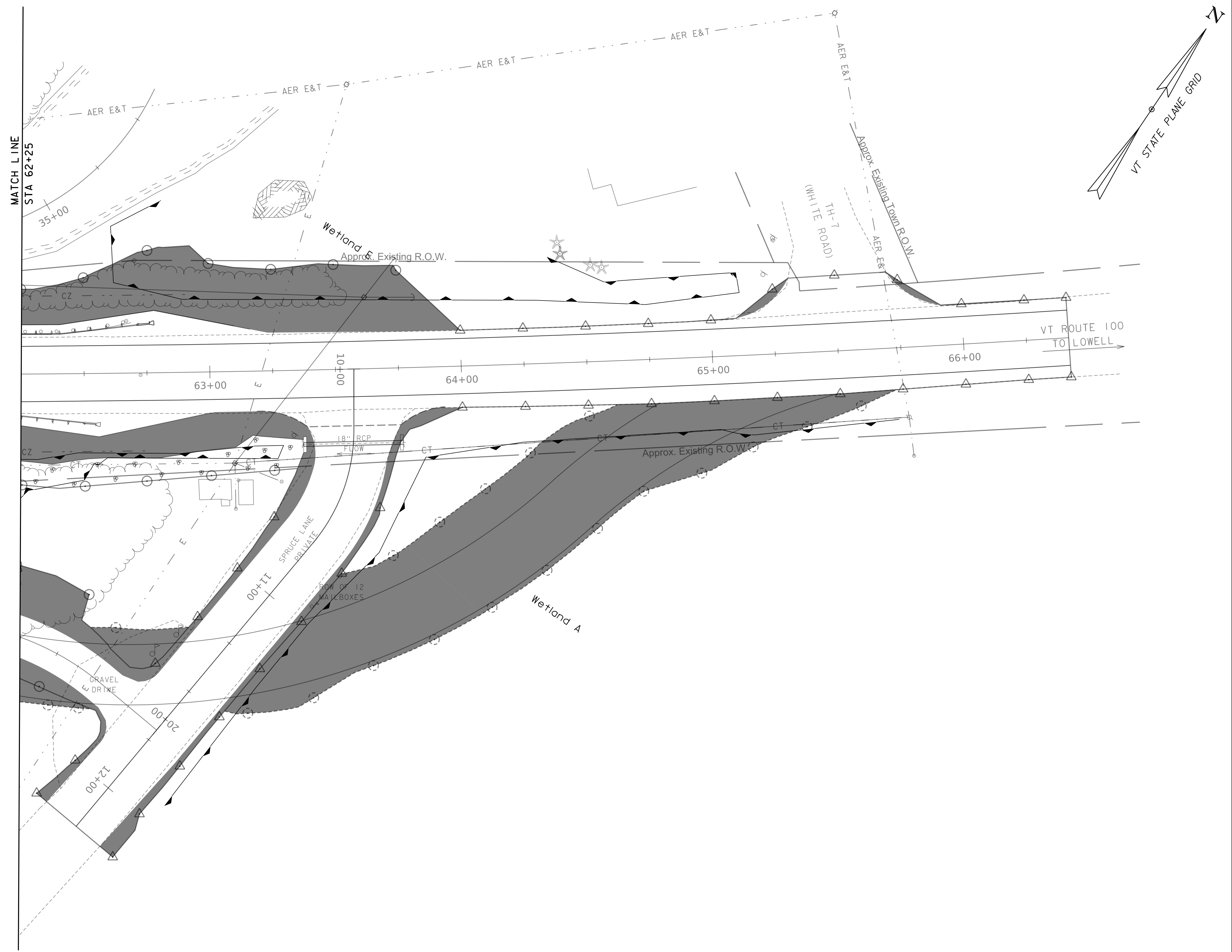
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	R. PELLETT
FILE NAME:	s2b029epsc.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	53 OF 56
DESIGNED BY:	J. PAQUETTE		
CONSTRUCTION SITE PLAN 2			

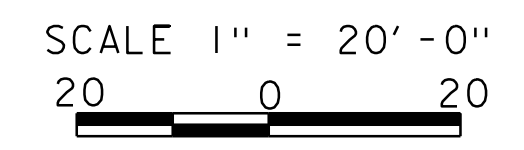


SCALE 1" = 20'-0"
 20 0 20

PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	R. PELLETT
FILE NAME:	s21b029epsc.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	54 OF 56
DESIGNED BY:	J. PAQUETTE		
FINAL SITE PLAN I			



PROJECT NAME:	EDEN	PLOT DATE:	6-MAY-2024
PROJECT NUMBER:	BF 029-2(15)	DRAWN BY:	R. PELLETT
FILE NAME:	s2b029epsc.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. COTA	SHEET	55 OF 56
DESIGNED BY:	J. PAQUETTE		
FINAL SITE PLAN 2			



VAOT LOW GROW/FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)	REVISIONS
	JANUARY 12, 2015 WHF

PROJECT NAME: EDEN	
PROJECT NUMBER: BF 029-2(15)	
FILE NAME: s2b029epsc details.dgn	PLOT DATE: 6-MAY-2024
PROJECT LEADER: C. COTA	DRAWN BY: R. PELLETT
DESIGNED BY: R. PELLETT	CHECKED BY: D. PETERSON
EPSC DETAIL	SHEET 56 OF 56