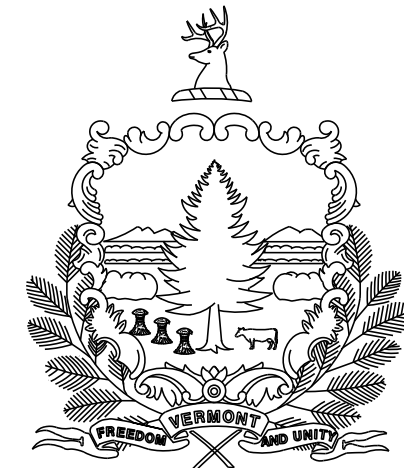


REVIEWER NOTES:

1. TRAFFIC WILL BE MAINTAINED ON AN TWO-WAY TEMPORARY ON-SITE DETOUR LOCATED DOWNSTREAM OF THE EXISTING BRIDGE.
2. ANY STRUCTURAL ELEMENTS SHOWN IN THE PLANS ARE CONCEPTUAL IN NATURE AND HAVE NOT BEEN FULLY DESIGNED.
3. IT IS ANTICIPATED THAT ADDITIONAL R.O.W. WILL BE REQUIRED.
4. IT IS ANTICIPATED THAT OVERHEAD UTILITIES WILL BE RELOCATED.
5. THIS PROJECT WILL UTILIZE THE VT DEC LOW RISK SITE HANDBOOK FOR EPSC. NO SITE-SPECIFIC EPSC PLAN IS INCLUDED. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC EPSC PLAN TO VTRANS UPON CONTRACT AWARD IN ACCORDANCE WITH THEIR MEANS AND METHODS.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF LOWELL

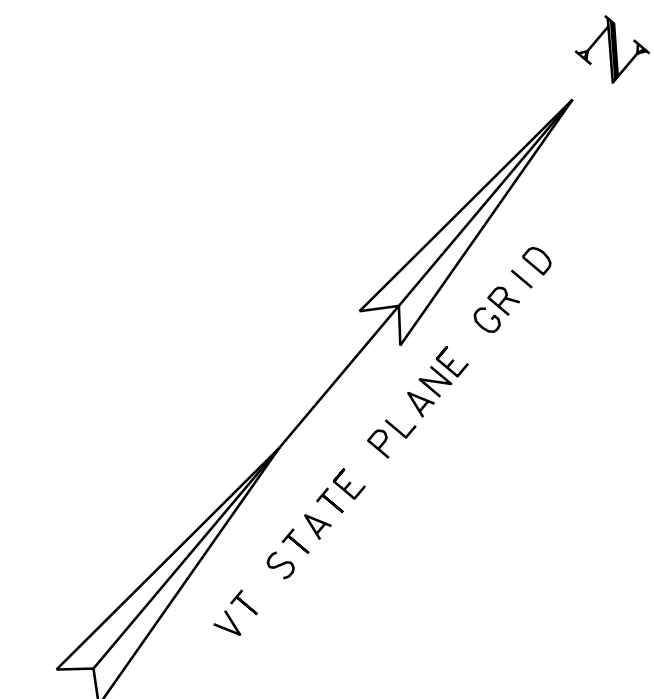
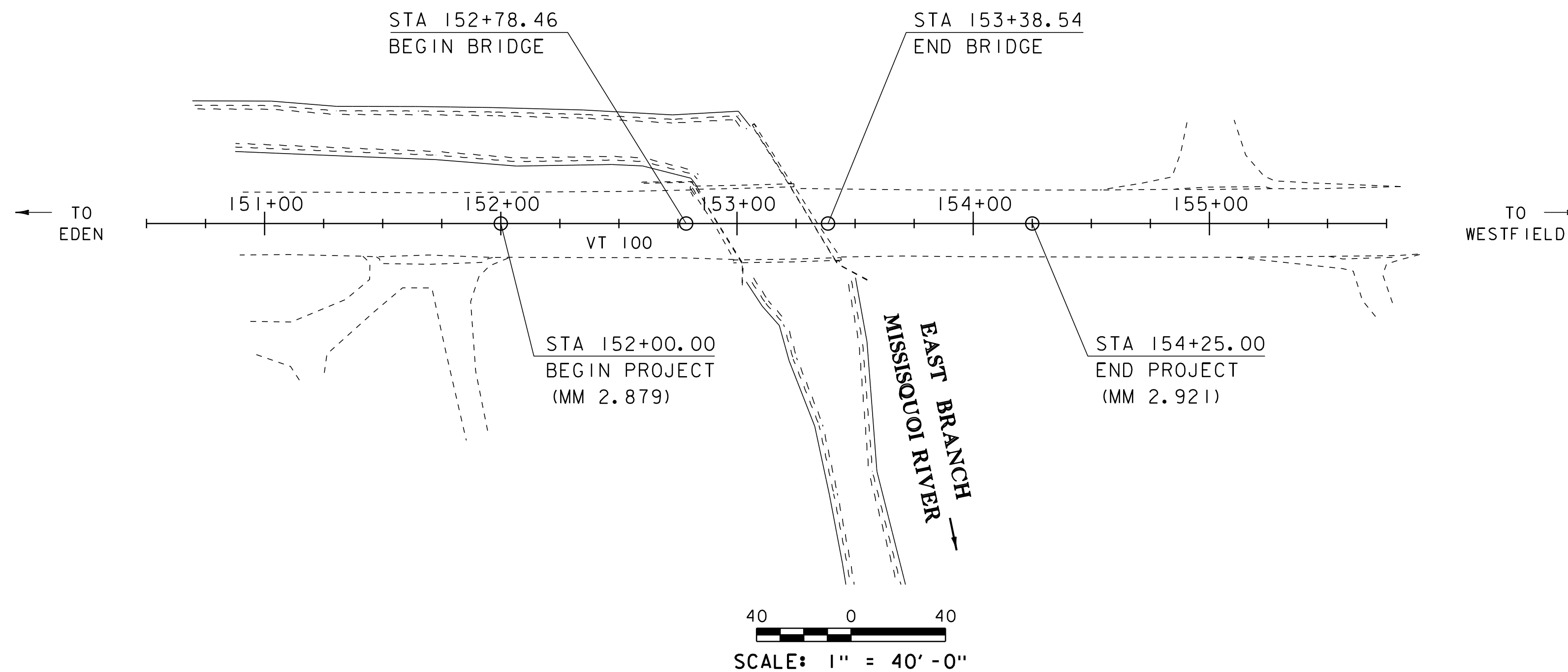
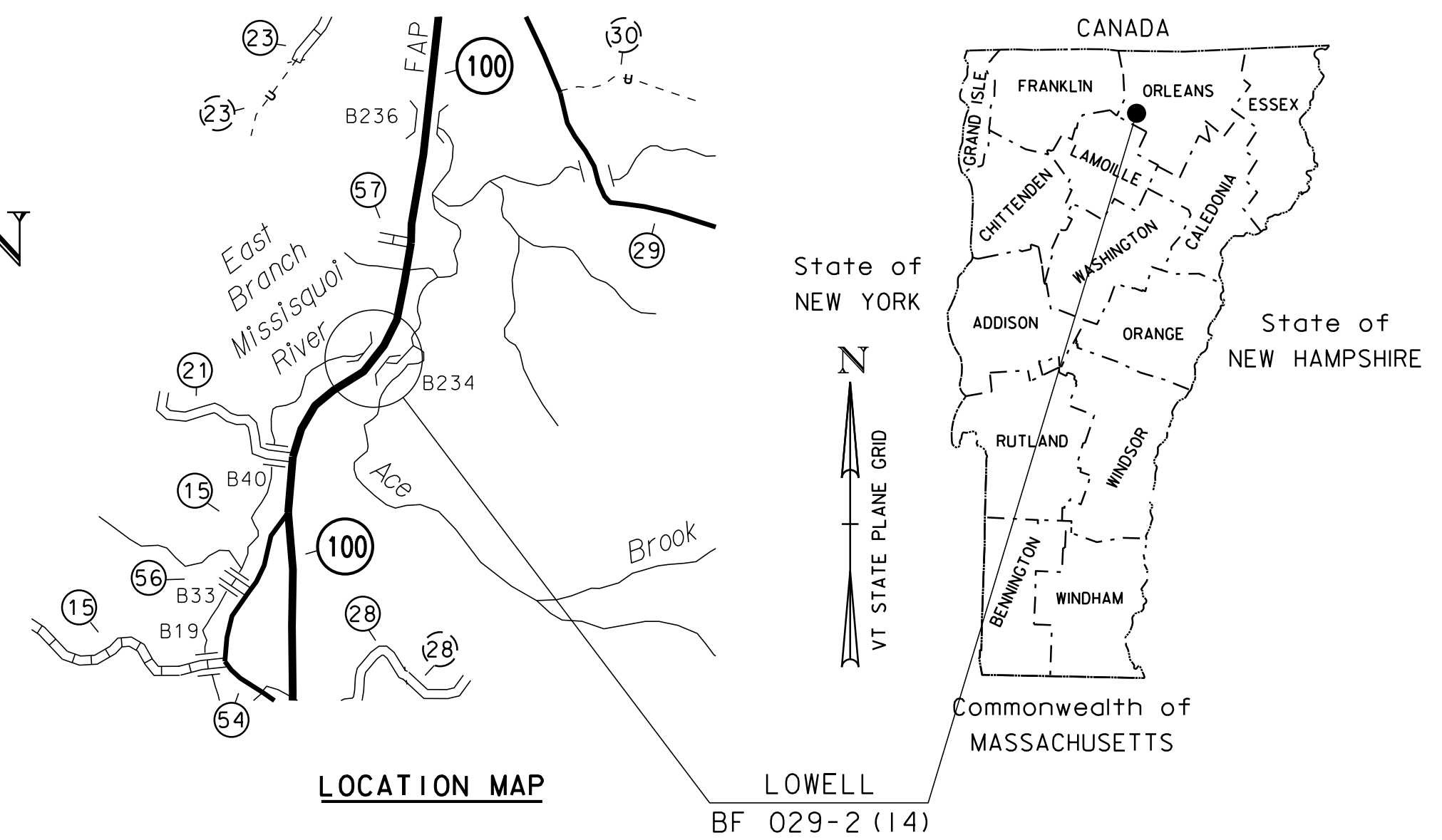
COUNTY OF ORLEANS

ROUTE NO : VT 100; RURAL MINOR ARTERIAL BRIDGE NO : 234

PROJECT LOCATION : ON VT 100 BEGINNING APPROXIMATELY 2.879 MILES NORTH FROM EDEN/LOWELL TOWNLINE AND EXTENDING NORTHERLY APPROXIMATELY 0.043 MILE.

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

LENGTH OF STRUCTURE : 60.08 FEET
LENGTH OF ROADWAY : 164.92 FEET
LENGTH OF PROJECT : 225.00 FEET

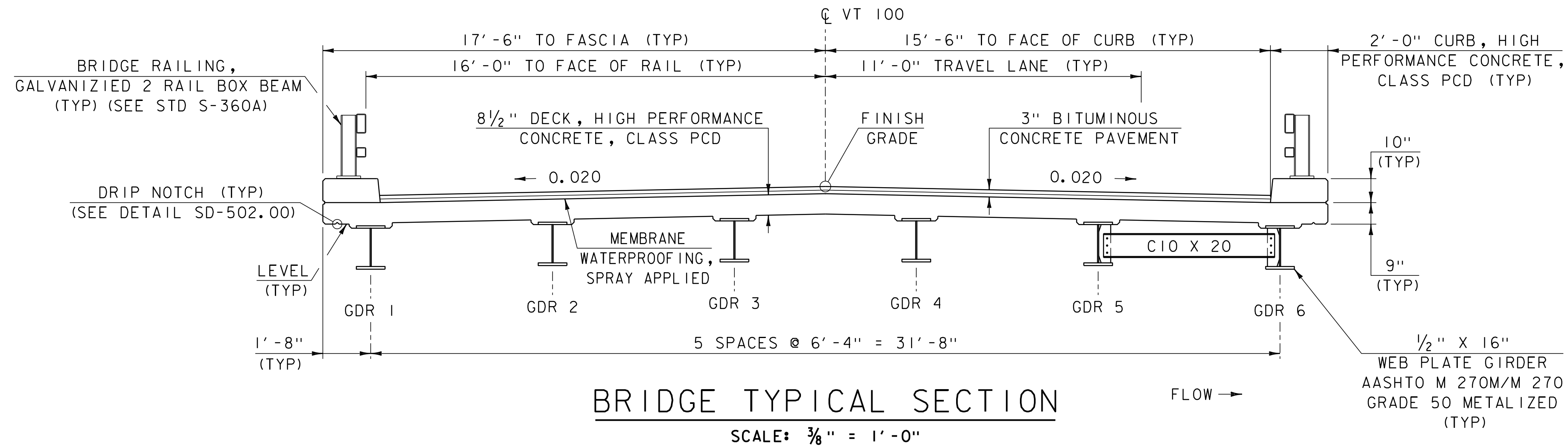
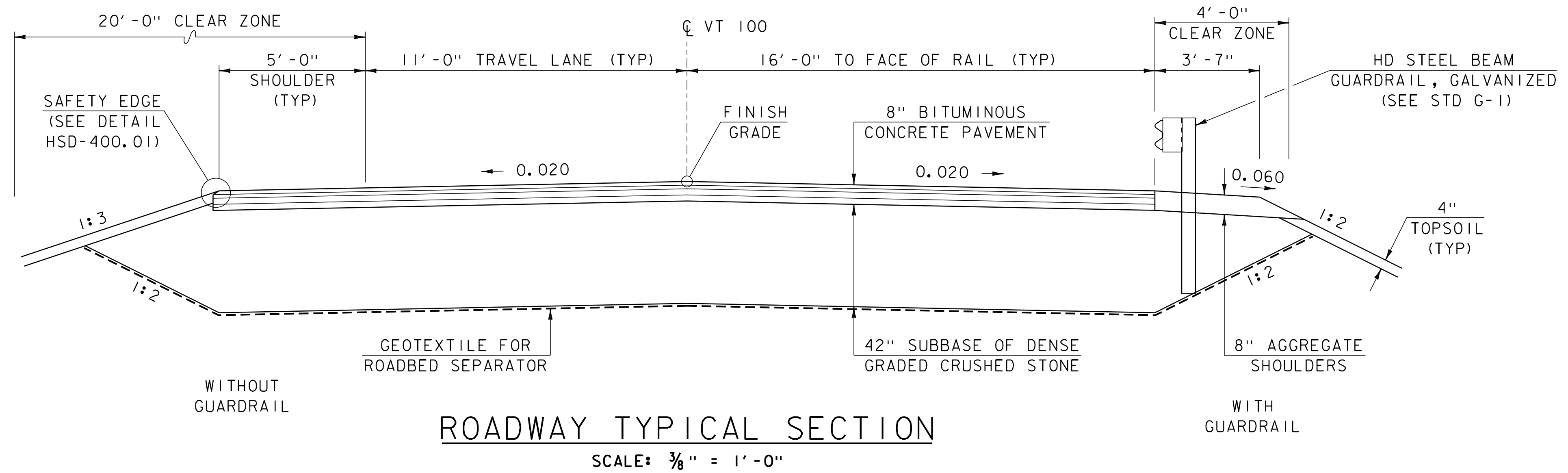


CONCEPTUAL PLANS 02-MAR-2020

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 : R. GILMAN	
SURVEYED DATE : 02/19/2011	
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (96)

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : CAROLYN COTA, PE	
PROJECT NAME :	LOWELL
PROJECT NUMBER :	BF 029-2 (14)
SHEET 1 OF 20 SHEETS	



ROADWAY MATERIAL REQUIREMENTS

	THICKNESS	DESCRIPTION
BINDER	70-28	PERFORMANCE GRADE ASPHALT BINDER
GYRATION	65	DESIGN NUMBER OF GYRATIONS
WEARING COURSE	1 1/2"	406.36 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVB
INTERMEDIATE COURSE	1 1/2"	406.36 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVB
BASE COURSE #1	2 1/2"	406.35 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIS
BASE COURSE #2	2 1/2"	406.35 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIS
EMULSIFIED ASPHALT	---	STANDARD SPECIFICATIONS TABLE 406.12A
BUFFER	VARIES	AGGREGATE SURFACE COURSE (MATCH PAVE THICK)
SUBBASE	42"	SUBBASE OF DENSE GRADED CRUSHED STONE
TOPSOIL	4"	TOPSOIL

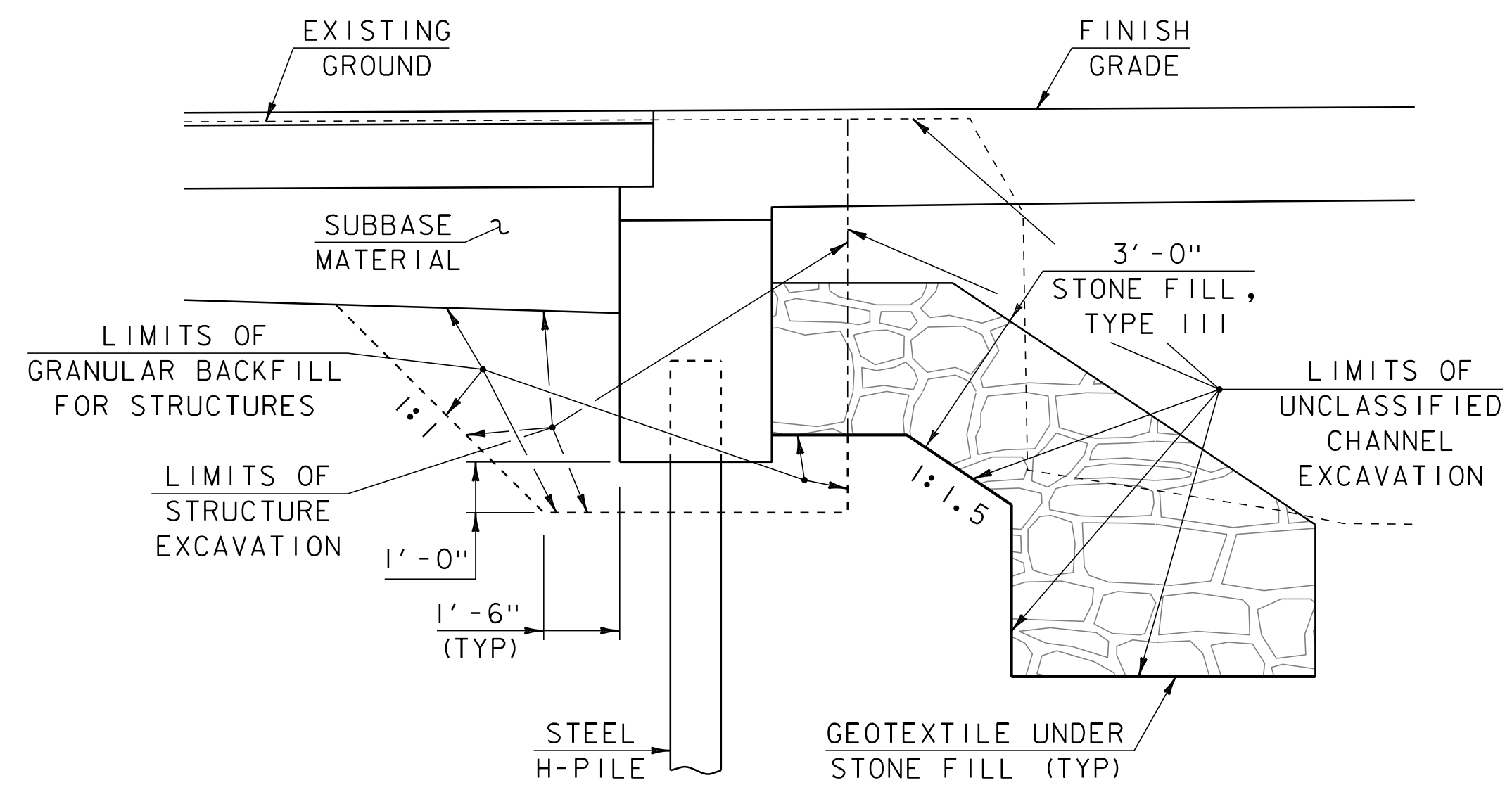
MATERIAL TOLERANCES (IF USED ON PROJECT)

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

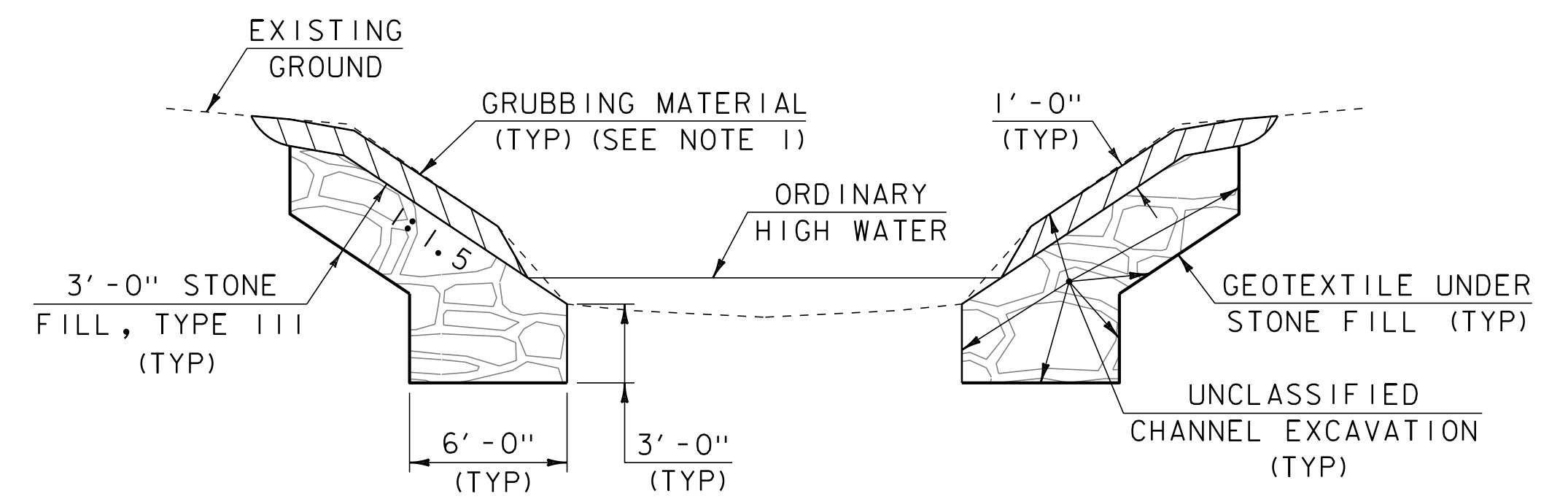
PROJECT NAME: LOWELL
PROJECT NUMBER: BF 029-2 (14)

FILE NAME: sl2b592typ.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: S. COLEY
TYPICAL SECTIONS (1)

PLOT DATE: 02-MAR-2020
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 3 OF 20



ABUTMENT TYPICAL SECTION
(NOT TO SCALE)



CHANNEL TYPICAL SECTION
(NOT TO SCALE)

1. 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.
2. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

PROJECT NAME: LOWELL
PROJECT NUMBER: BF 029-2 (14)

FILE NAME: sl2b592typ.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: S. COLEY
TYPICAL SECTIONS (2)

PLOT DATE: 02-MAR-2020
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 4 OF 20

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 — PDF —	PROJECT DEMARCATION FENCE
BF — x — x — BF — x — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	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 — P —	PROPERTY LINE (P/L)
— L — L —	PROPERTY LINE (P/L)
▲ — SR — SR — SR —	SLOPE RIGHTS
6f — 6f —	6F PROPERTY BOUNDARY
4f — 4f —	4F PROPERTY BOUNDARY
HAZ — HAZ —	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— x — x — x — x —	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 — 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: **LOWELL**  
PROJECT NUMBER: **BF 029-2 (14)**

FILE NAME: sl2b592legend.dgn PLOT DATE: 02-MAR-2020  
PROJECT LEADER: C. COTA DRAWN BY: G. ROY  
DESIGNED BY: S. COLEY CHECKED BY: C. BURRALL  
CONVENTIONAL SYMBOLGY LEGEND SHEET 5 OF 20

PRIMARY CONTROL

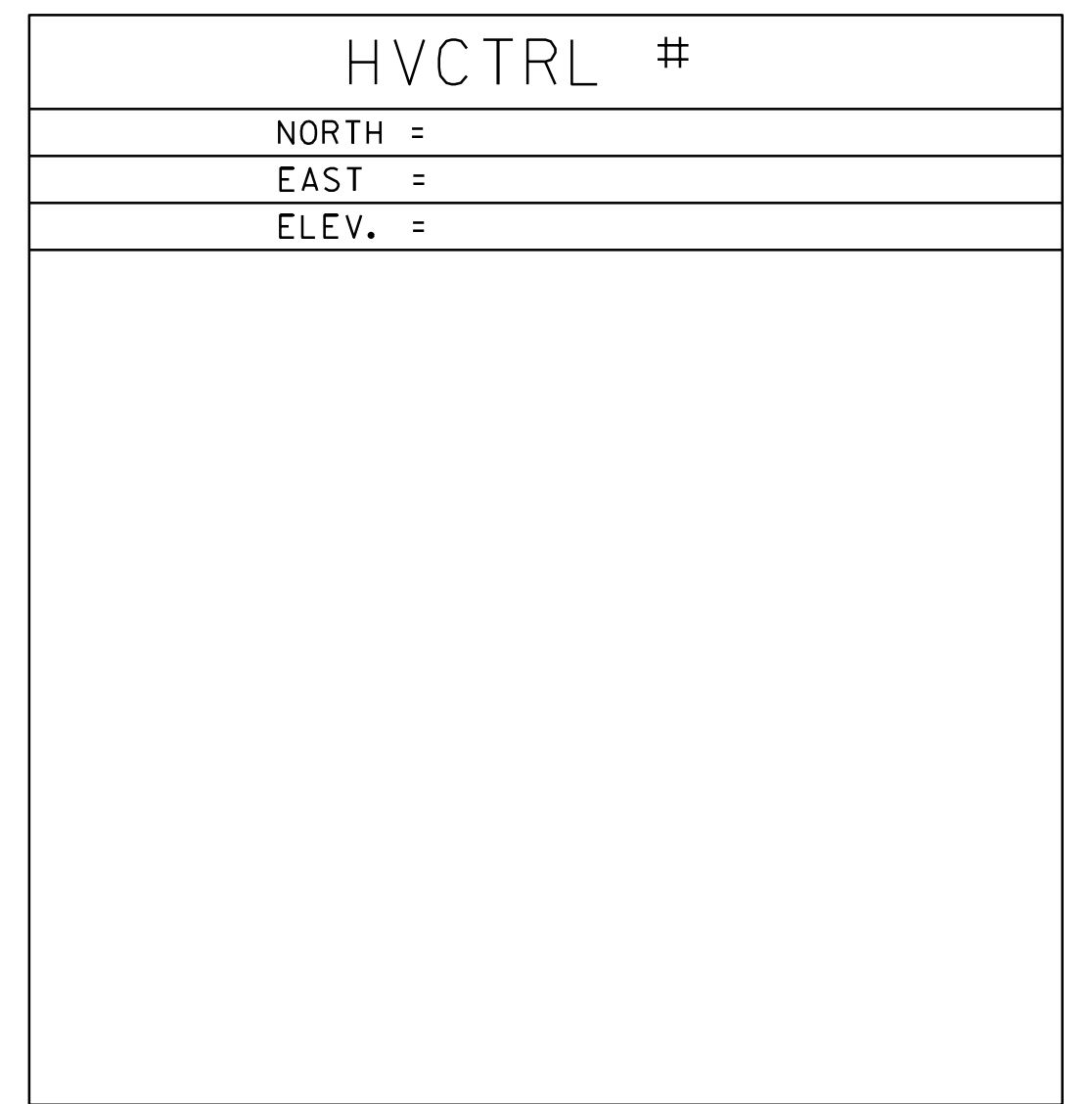
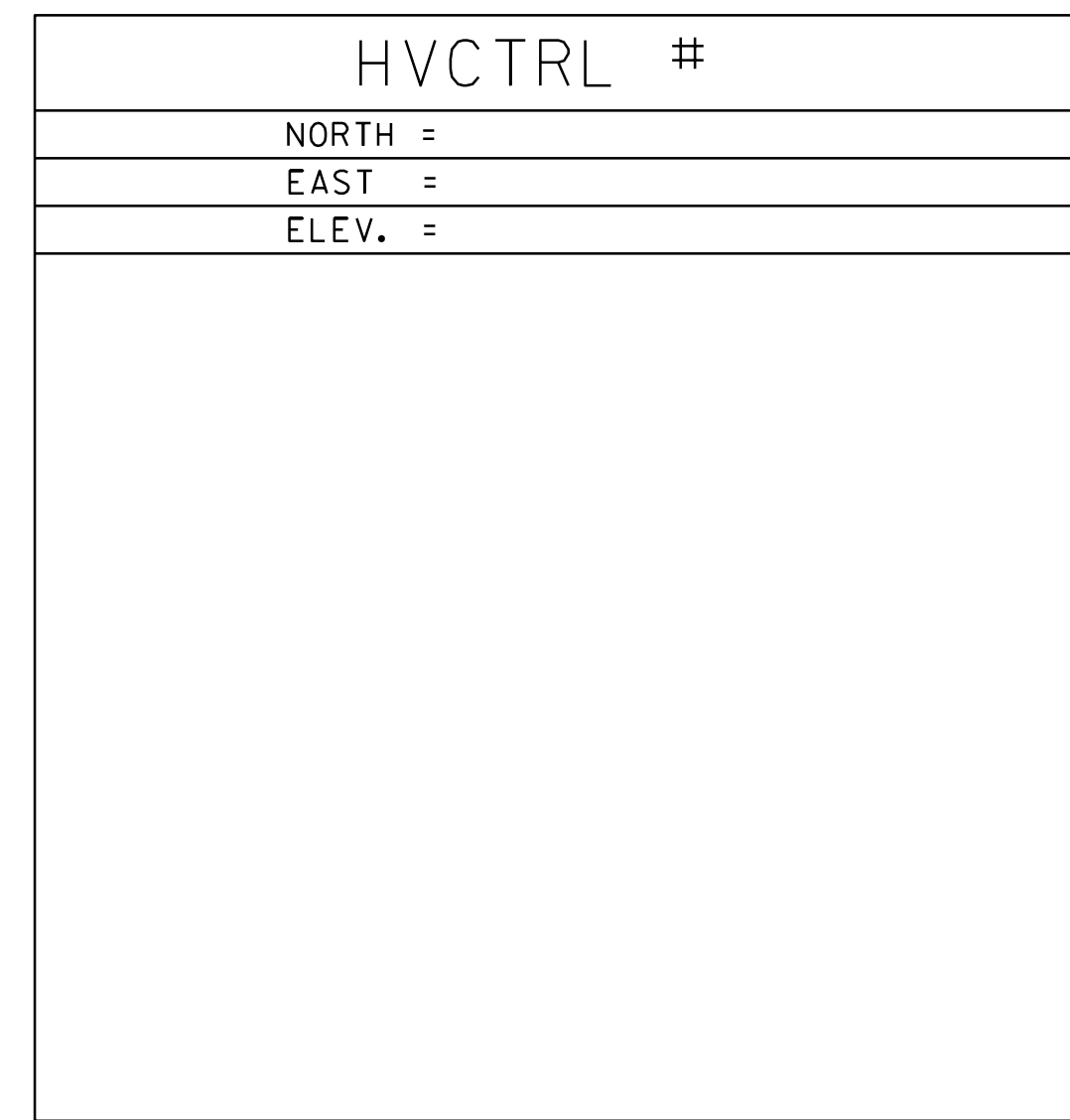
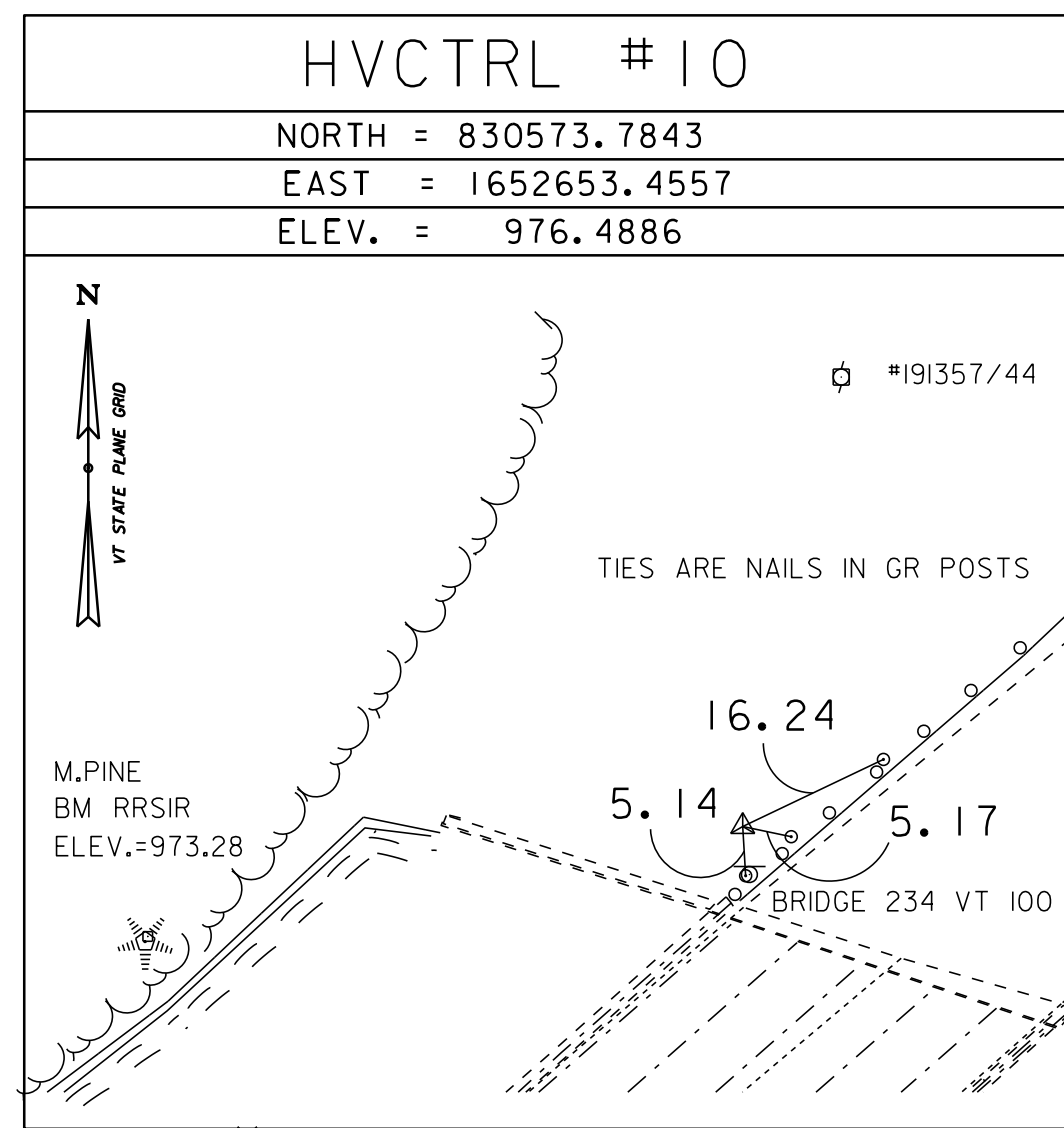
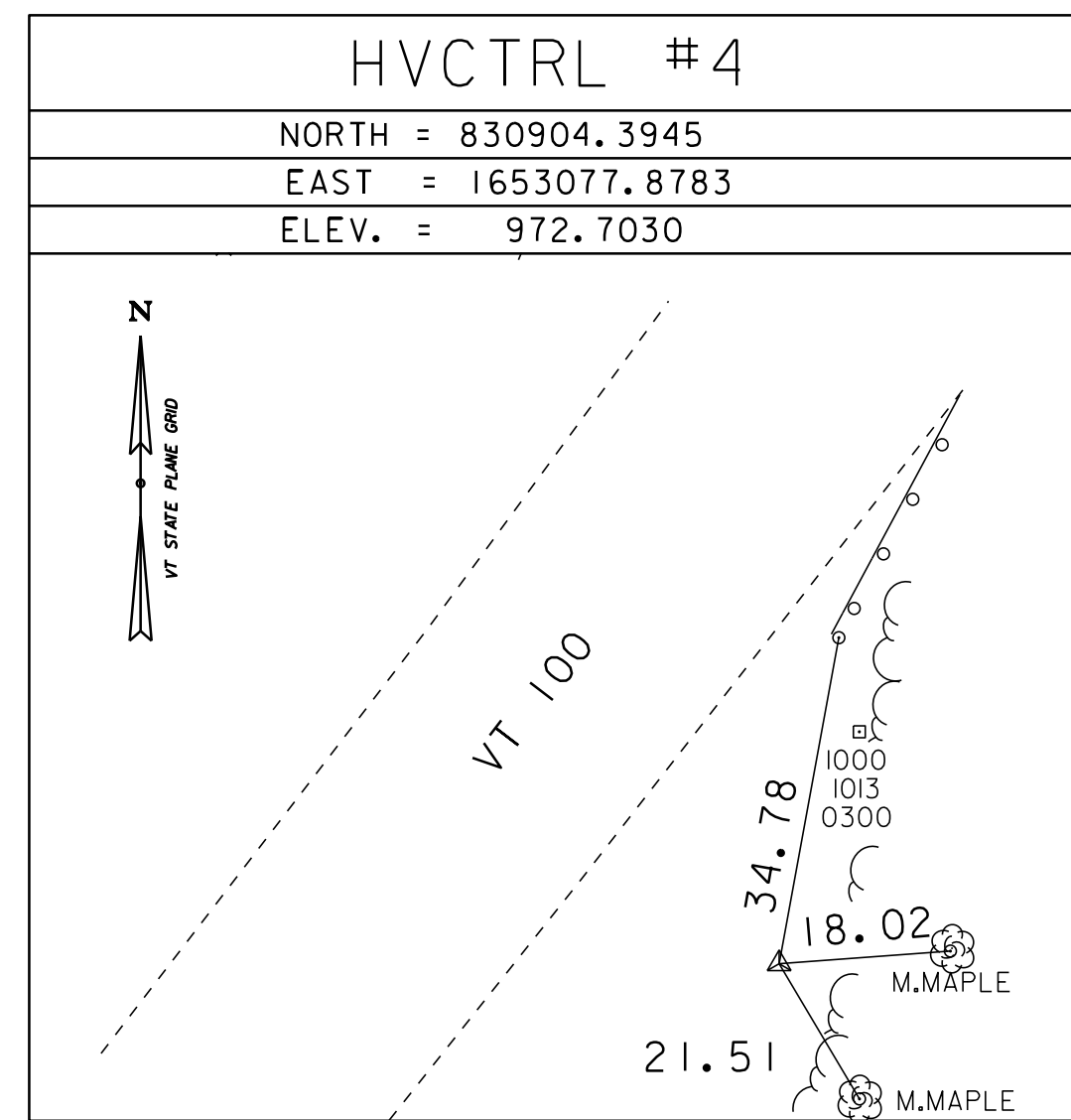
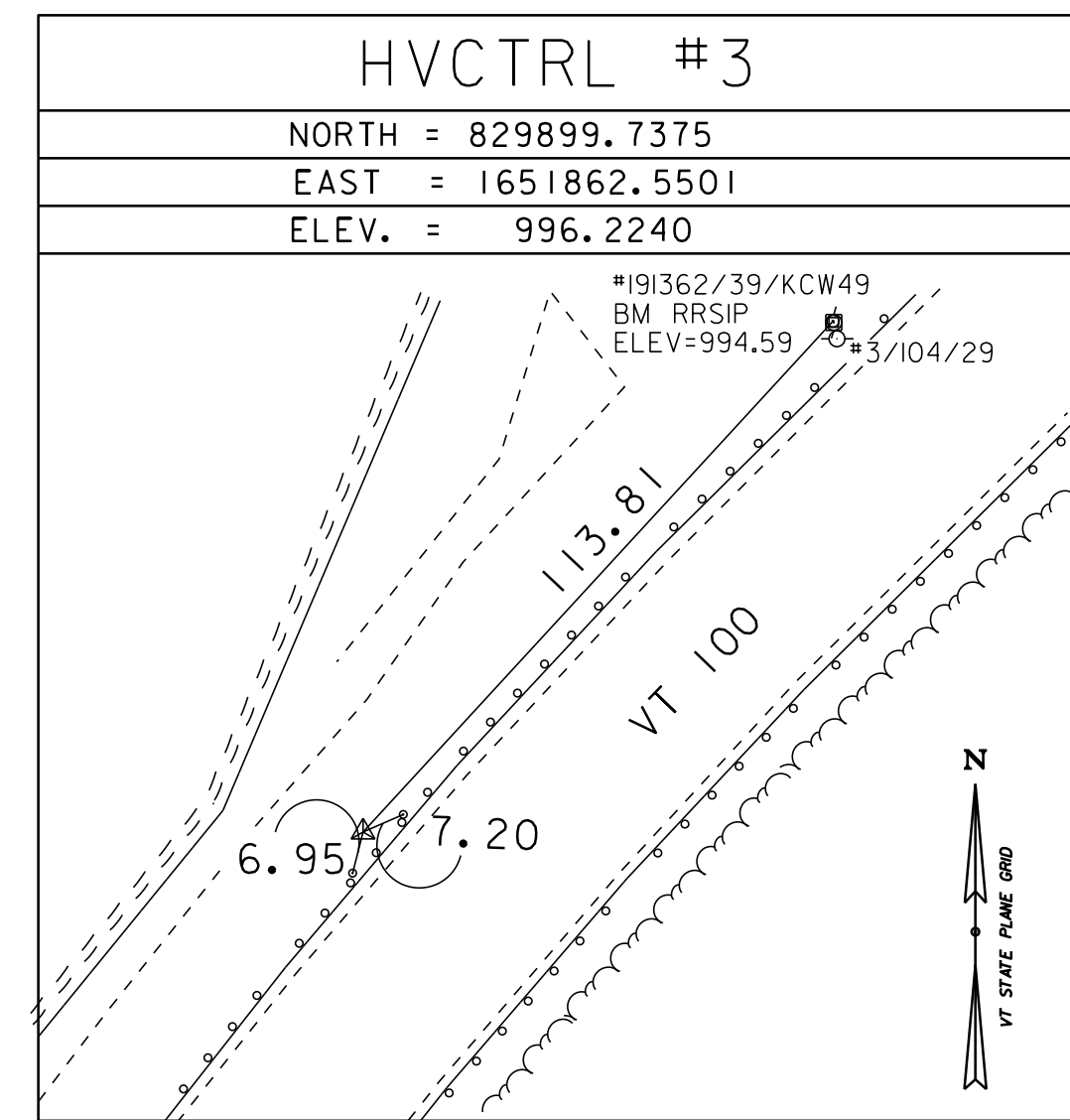
HVCTRL #1  
 RICKABY AZ MK  
 NORTH = 827975.4300  
 EAST = 1651451.9500  
 ELEV = 1051.7710

LOWELL, VT.  
 THE MARK IS SET FLUSH WITH THE GROUND SURFACE IN THE TOP OF A 30 CM (12 INCH) DIAMETER CONCRETE MONUMENT POURED 1.3 M (4.3 FT) DEEP. IT IS 11.9 M (39.0 FT) WEST OF AND ABOUT 2 M (6.6 FT) HIGHER THAN THE CENTERLINE OF VT ROUTE 100, 36.0 M (118.1 FT) NORTH OF THE CENTERLINE OF A FIELD DRIVE, 10.9 M (35.8 FT) SOUTH OF A 12 CM (5 INCH) POPLAR AND 0.3 M (1.0 FT) EAST OF A FIBERGLASS WITNESS POST.

HVCTRL #2  
 RICKABY  
 NORTH = 829374.4700  
 EAST = 1651600.3100  
 ELEV = 1004.0800

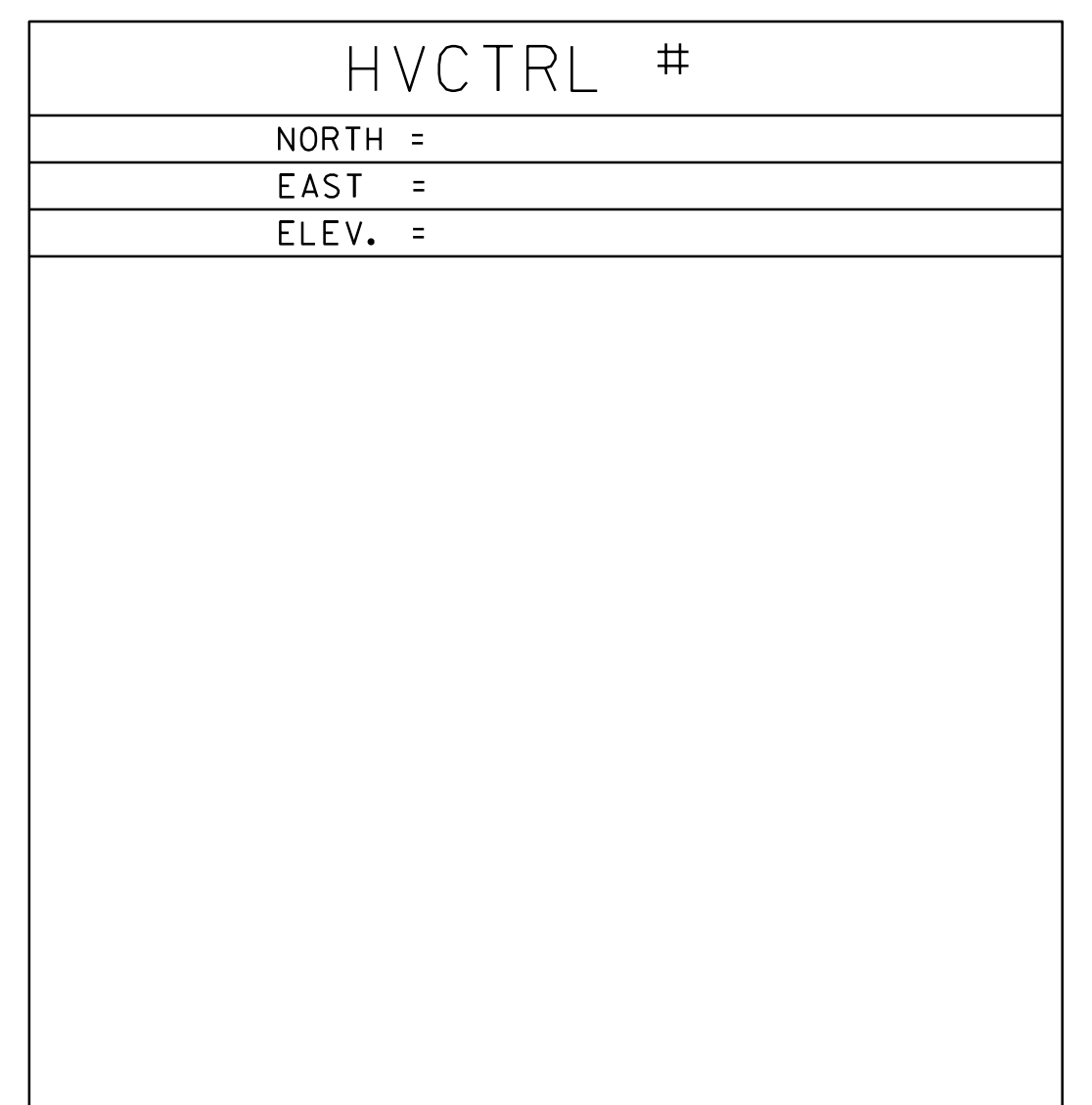
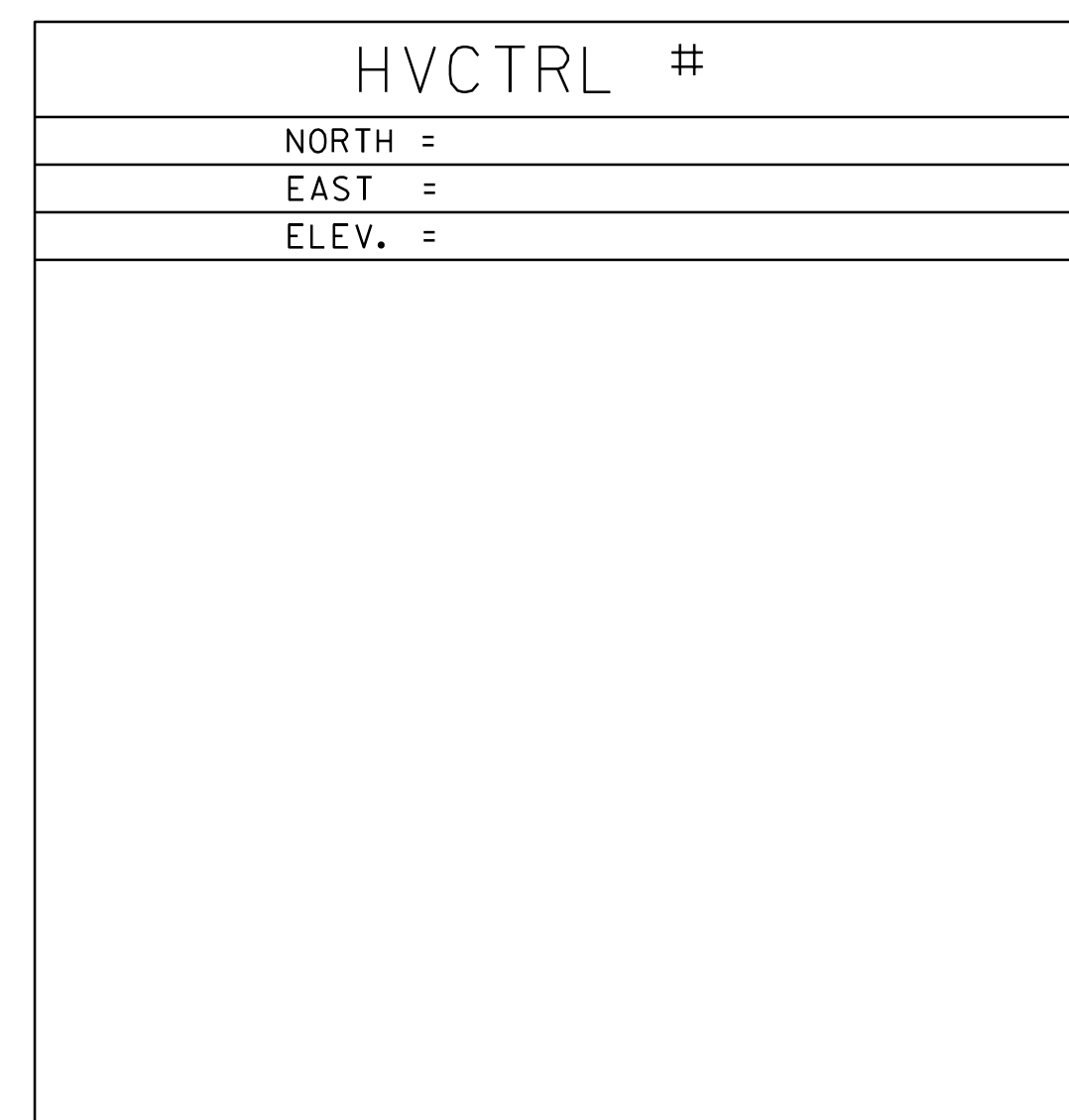
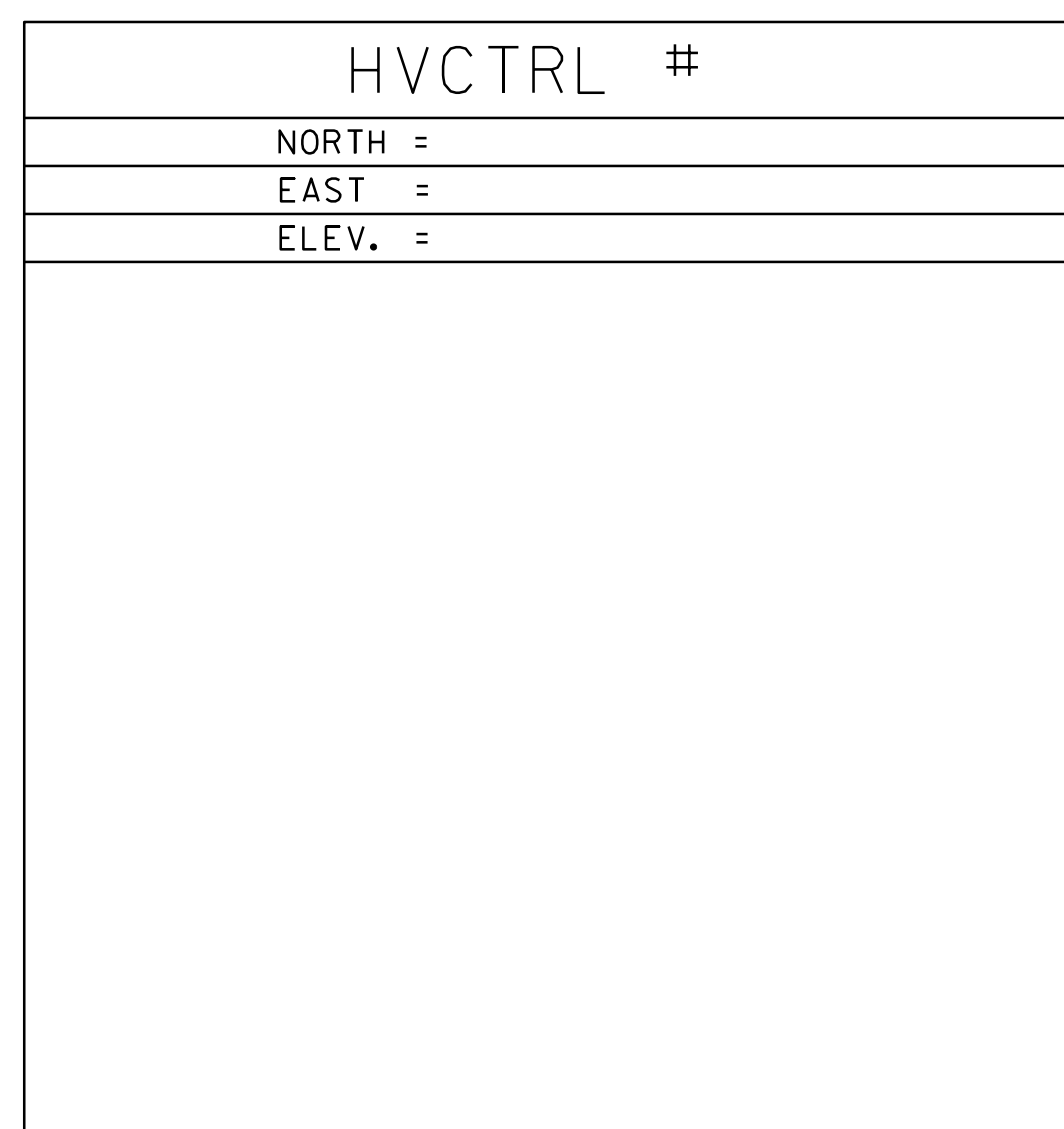
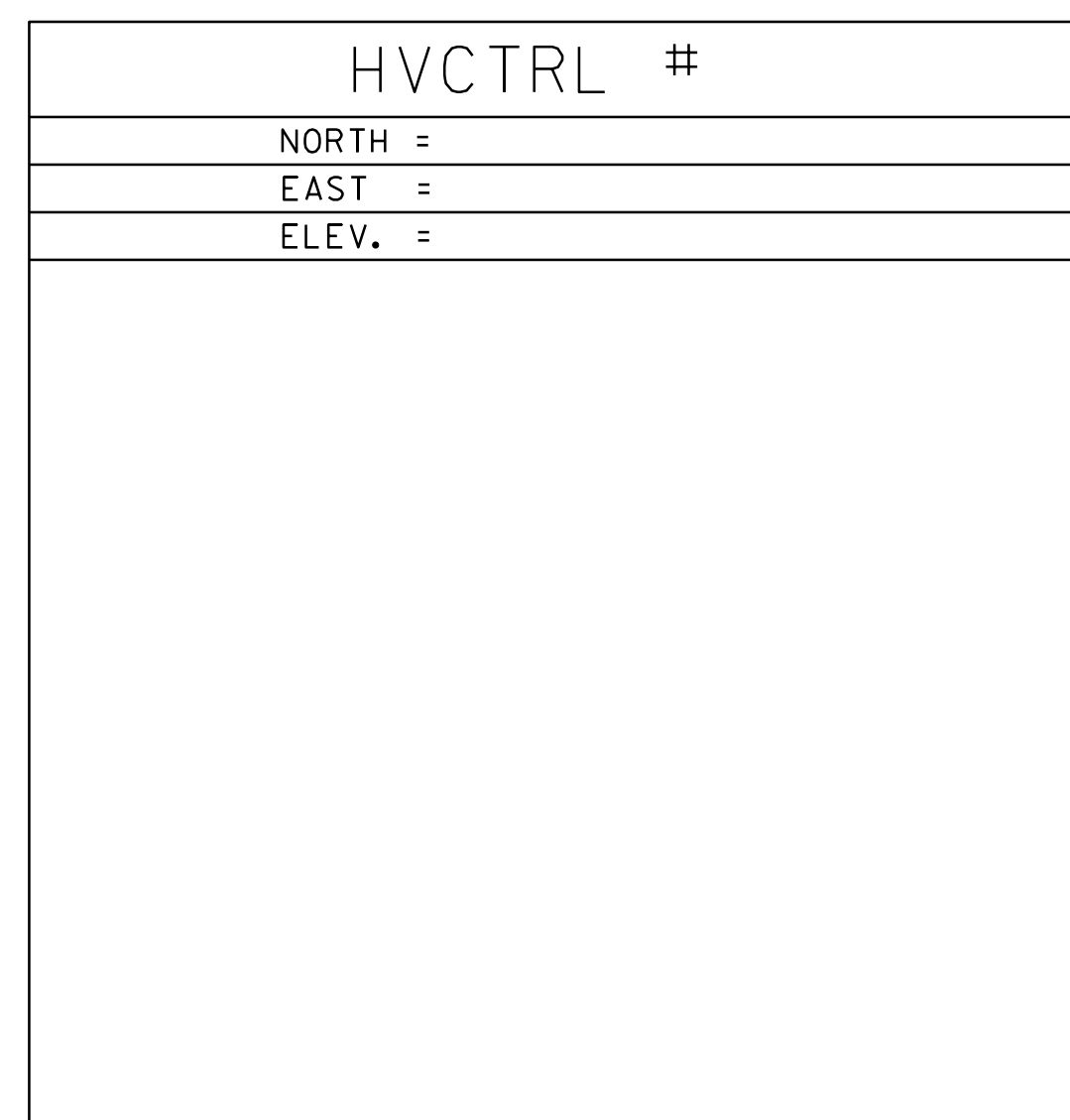
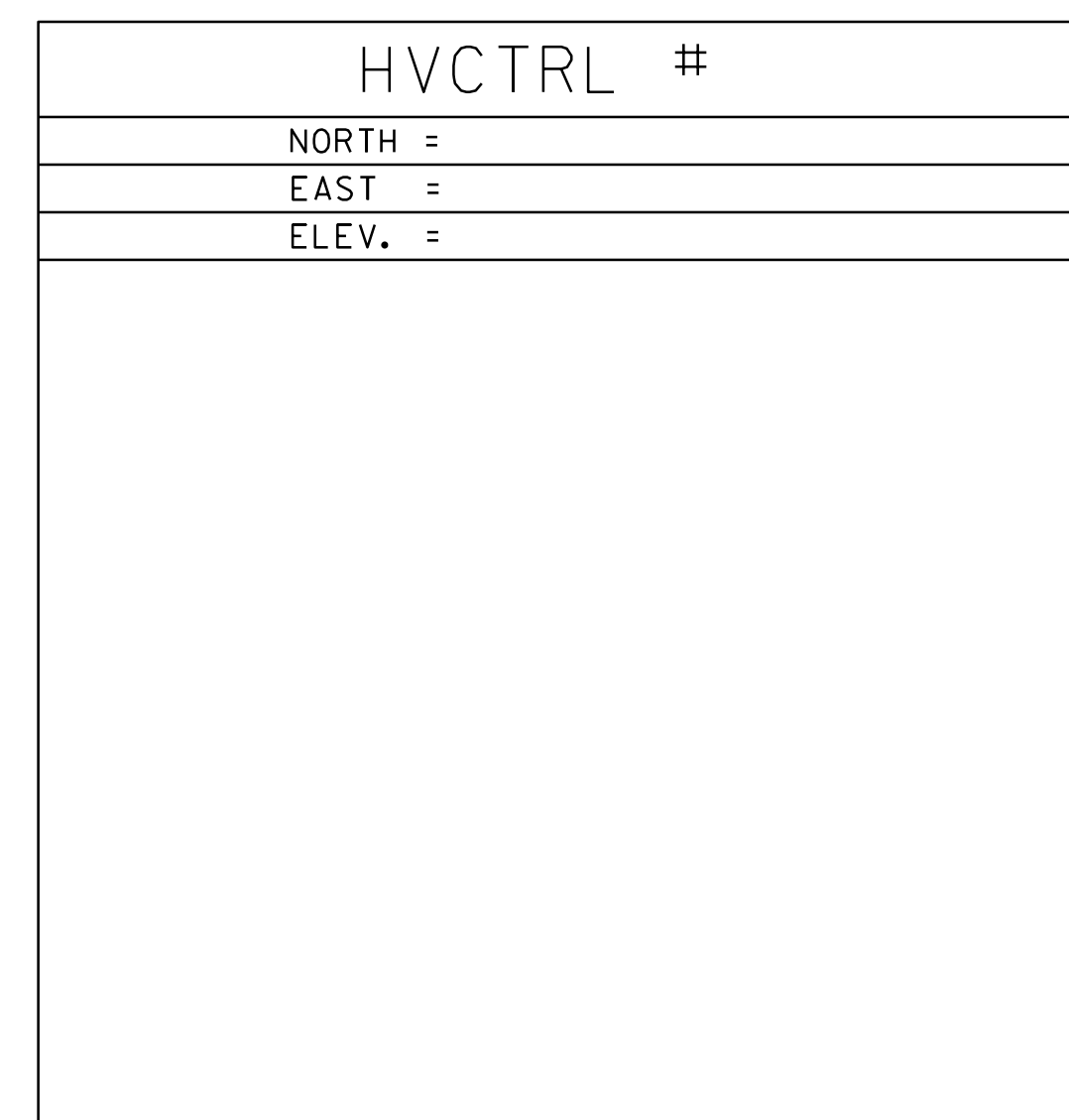
LOWELL, VT.  
 THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT IN A LAWN AND ABOUT 70 M NORTH OF THE INTERSECTION OF RICKABY ROAD. IT IS 7.8 M WEST OF AND ABOUT 0.4 M LOWER THAN THE CENTERLINE OF VT ROUTE 100, 20.5 M EAST OF THE NORTHEAST PORCH CORNER OF A 1 1/2 STORY HOUSE, 22.6 M NORTHEAST OF THE SOUTHEAST CORNER OF THE PORCH AND 16.8 M SOUTH OF AN UNNUMBERED TELEPHONE POLE AND A FIBERGLASS WITNESS POST.

SECONDARY CONTROL



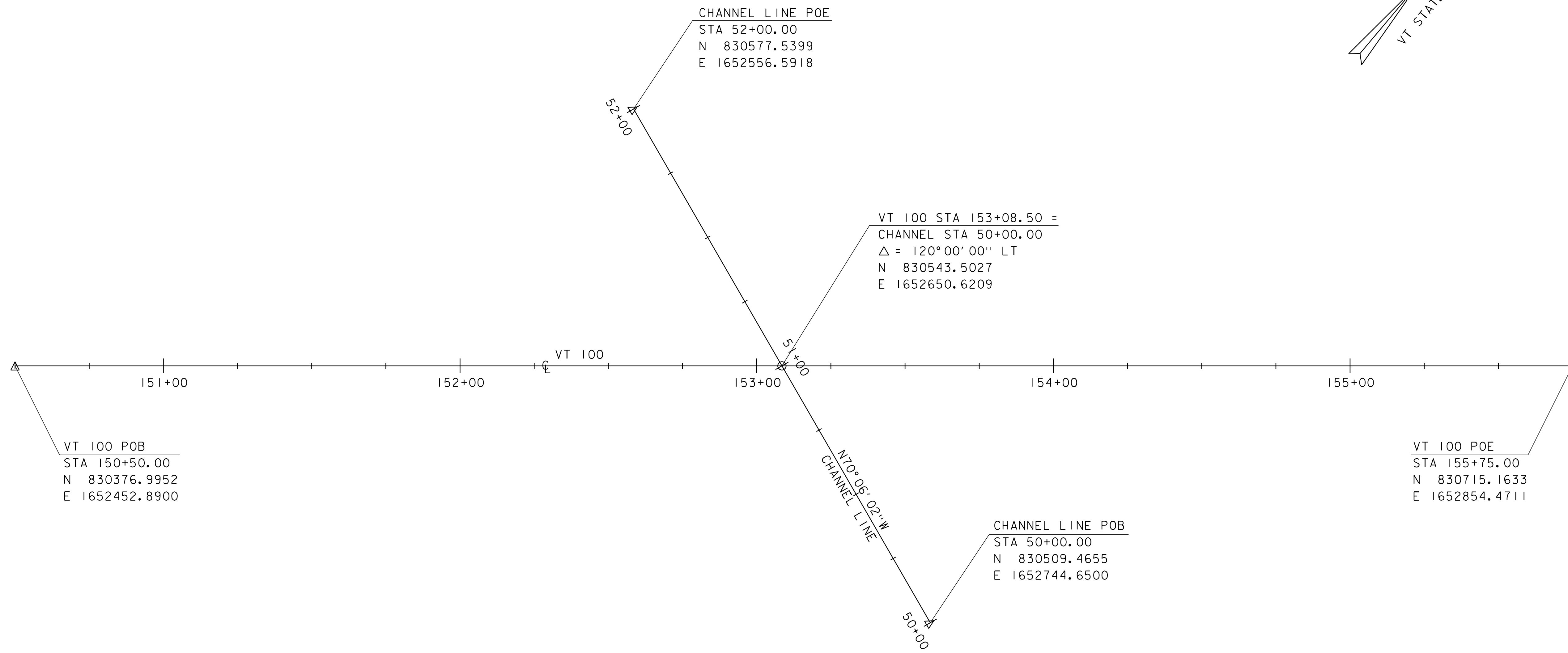
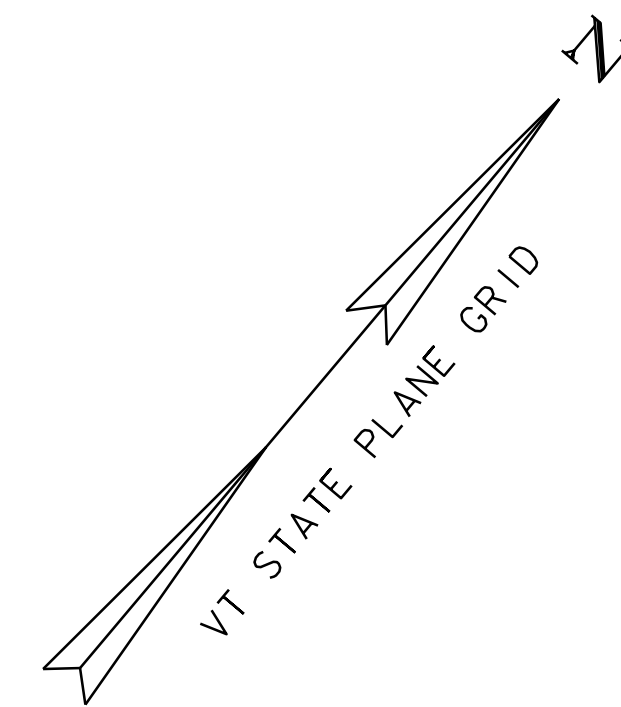
MAIN TRAVERSE COMPLETED BY R. GILMAN & H. MCGOWAN 8/2/2018

SECONDARY CONTROL



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (2011)
ADJUSTMENT COMPASS

PROJECT NAME: LOWELL
PROJECT NUMBER: BF 029-2(14)
FILE NAME: sl2b592tie.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: S. COLEY
TIES
PLOT DATE: 02-MAR-2020
DRAWN BY: H. MCGOWAN
CHECKED BY: G. HITCHCOCK
SHEET 6 OF 20



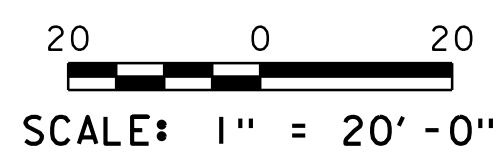
VT 100 POB  
 STA 150+50.00  
 N 830376.9952  
 E 1652452.8900

VT 100 POE  
 STA 155+75.00  
 N 830715.1633  
 E 1652854.4711

CHANNEL LINE POB  
 STA 50+00.00  
 N 830509.4655  
 E 1652744.6500

CHANNEL LINE POE  
 STA 52+00.00  
 N 830577.5399  
 E 1652556.5918

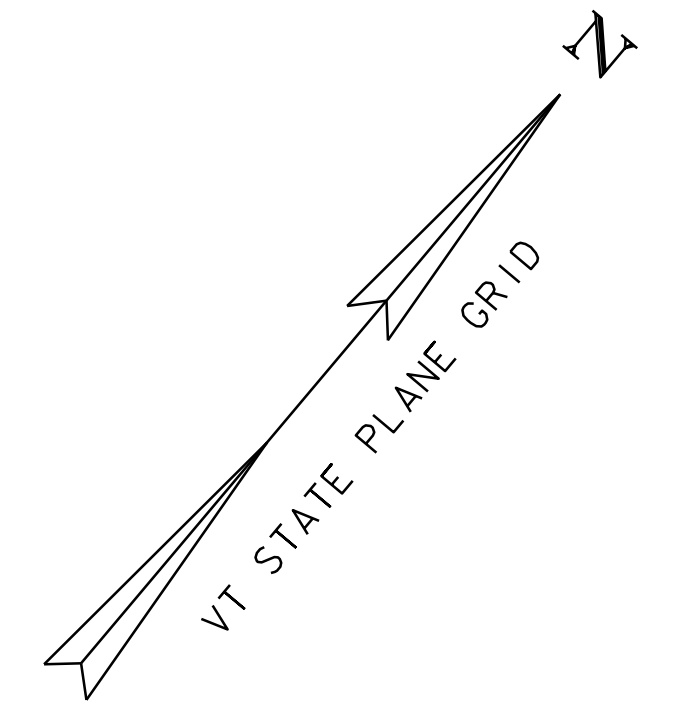
VT 100 STA 153+08.50 =  
 CHANNEL STA 50+00.00  
 Δ = 120°00'00" LT  
 N 830543.5027  
 E 1652650.6209



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (96)
ADJUSTMENT	Compass

PROJECT NAME:	LOWELL	PLOT DATE:	02-MAR-2020
PROJECT NUMBER:	BF 029-2 (14)	DRAWN BY:	G. ROY
FILE NAME:	sl2b592alg.dgn	CHECKED BY:	C. BURRALL
PROJECT LEADER:	C. COTA	ALIGNMENT	SHEET 7 OF 20
DESIGNED BY:	S. COLEY		

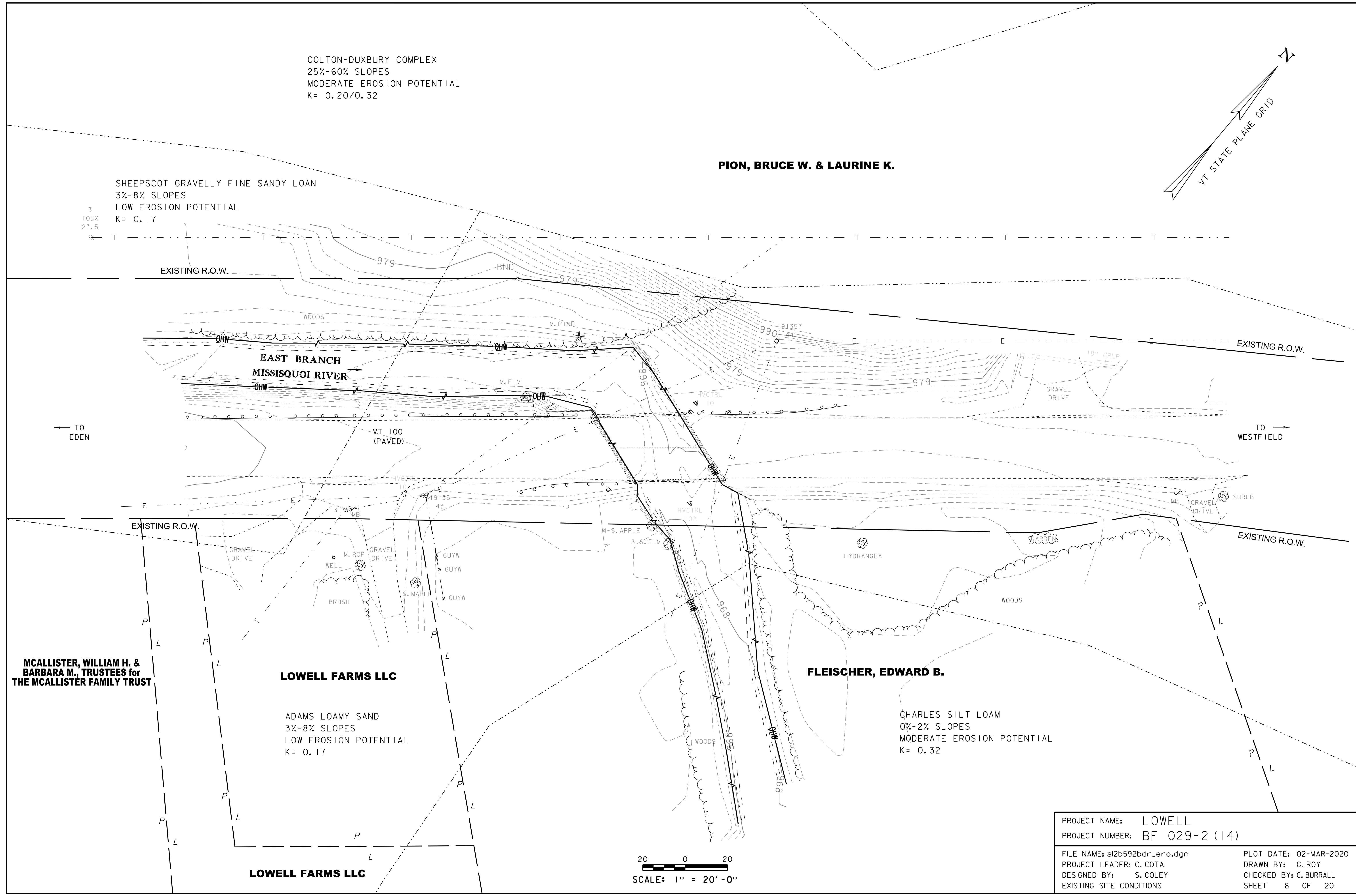
COLTON-DUXBURY COMPLEX  
 25%-60% SLOPES  
 MODERATE EROSION POTENTIAL  
 K= 0.20/0.32



**PION, BRUCE W. & LAURINE K.**

SHEEPSCOT GRAVELLY FINE SANDY LOAM  
 3%-8% SLOPES  
 LOW EROSION POTENTIAL  
 K= 0.17

3  
 105X  
 27.5



**MCALLISTER, WILLIAM H. & BARBARA M., TRUSTEES for THE MCALLISTER FAMILY TRUST**

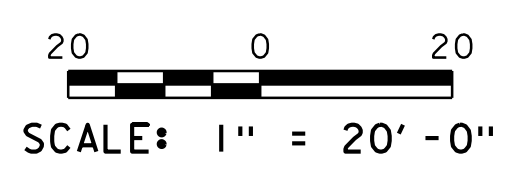
**LOWELL FARMS LLC**

ADAMS LOAMY SAND  
 3%-8% SLOPES  
 LOW EROSION POTENTIAL  
 K= 0.17

**LOWELL FARMS LLC**

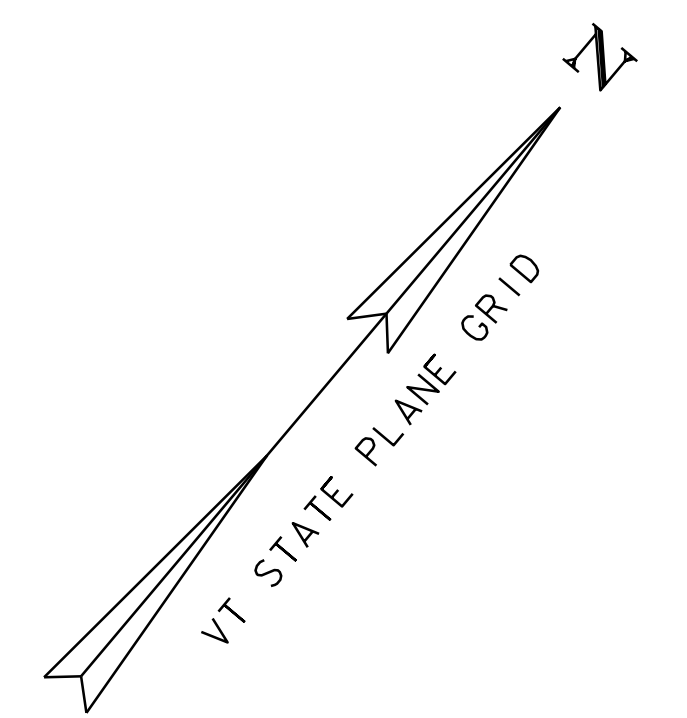
**FLEISCHER, EDWARD B.**

CHARLES SILT LOAM  
 0%-2% SLOPES  
 MODERATE EROSION POTENTIAL  
 K= 0.32



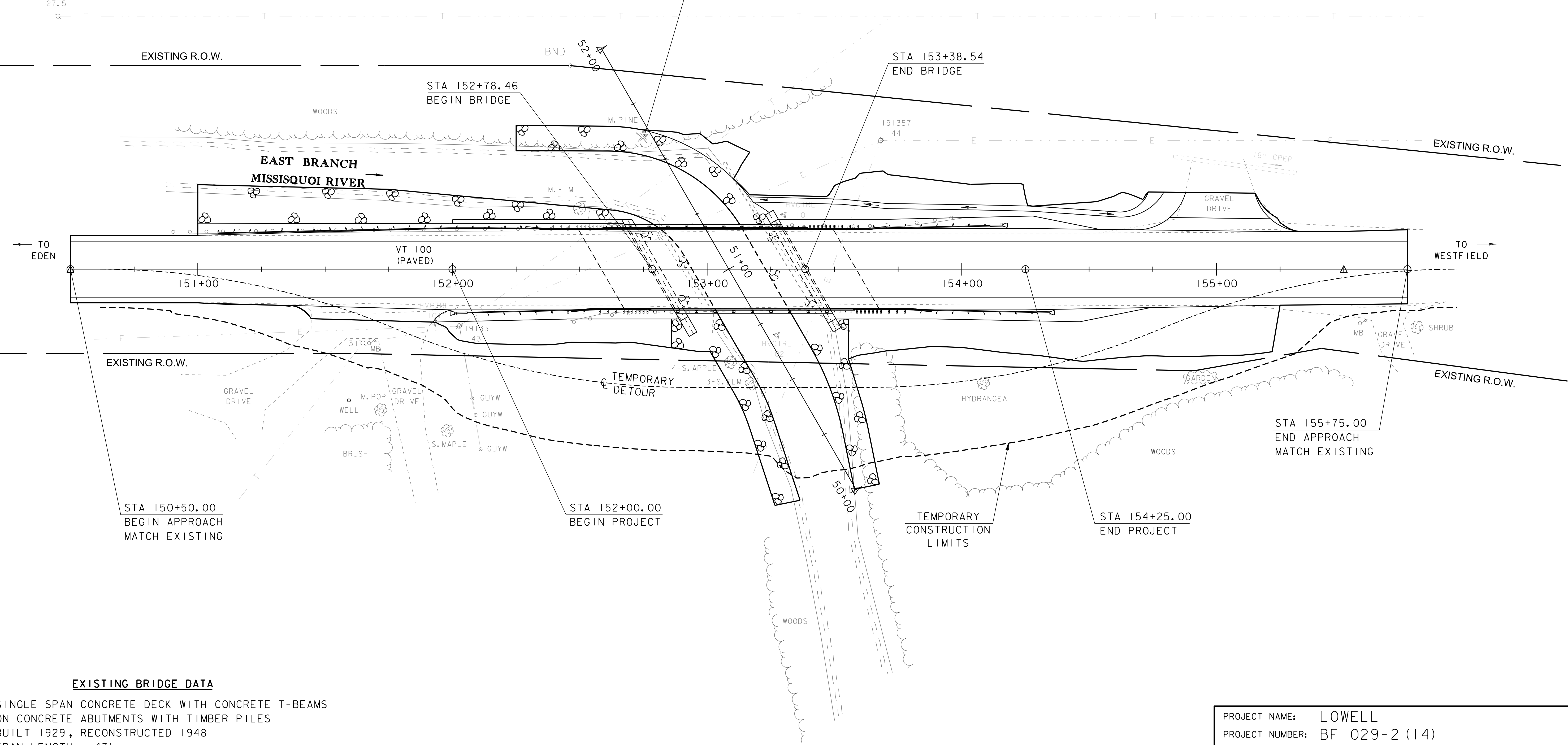
PROJECT NAME: <b>LOWELL</b>	PLOT DATE: 02-MAR-2020
PROJECT NUMBER: <b>BF 029-2 (14)</b>	DRAWN BY: G. ROY
FILE NAME: sl2b592bdr_ero.dgn	CHECKED BY: C. BURRALL
PROJECT LEADER: C. COTA	SHEET 8 OF 20
DESIGNED BY: S. COLEY	
EXISTING SITE CONDITIONS	





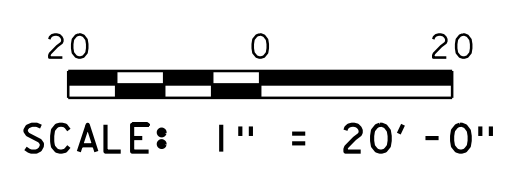
3  
105X  
27.5

BM I  
RRSIR  
M. PINE  
EL 974.283

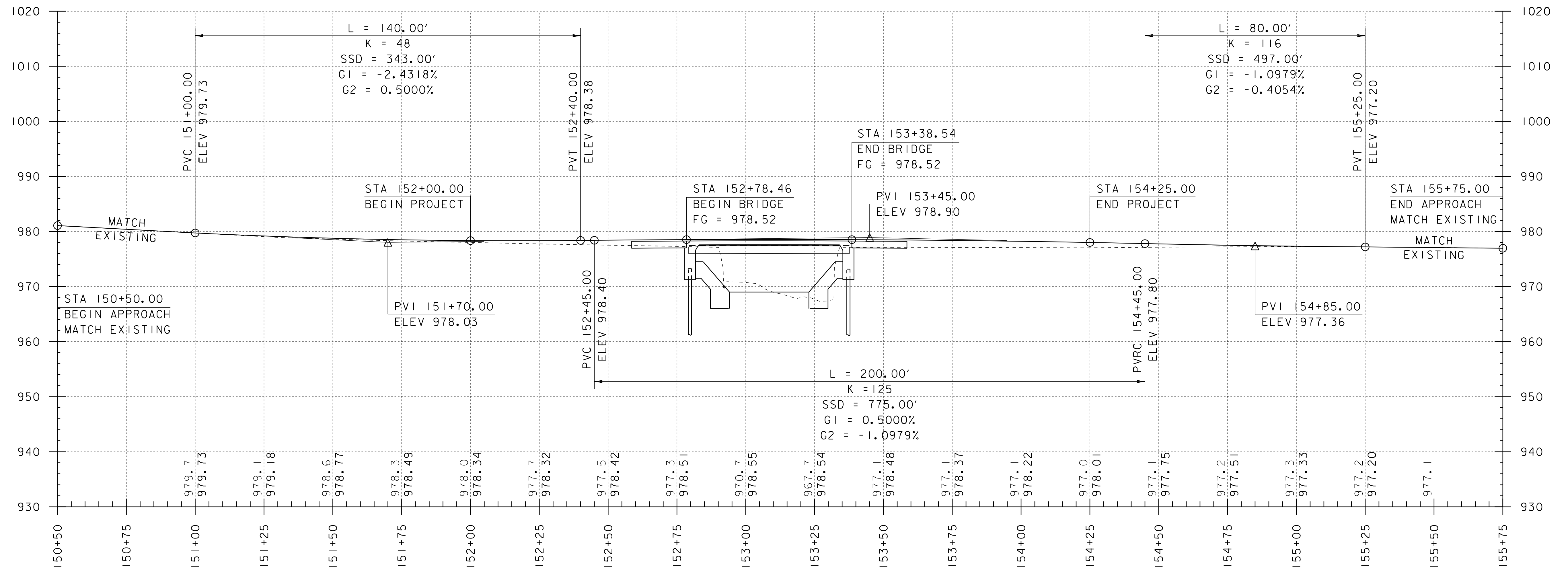


**EXISTING BRIDGE DATA**

SINGLE SPAN CONCRETE DECK WITH CONCRETE T-BEAMS  
ON CONCRETE ABUTMENTS WITH TIMBER PILES  
BUILT 1929, RECONSTRUCTED 1948  
SPAN LENGTH = 43'  
FASCIA TO FASCIA WIDTH = 33.17'



PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592bdr.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
LAYOUT	SHEET 9 OF 20



PROFILE ALONG VT 100

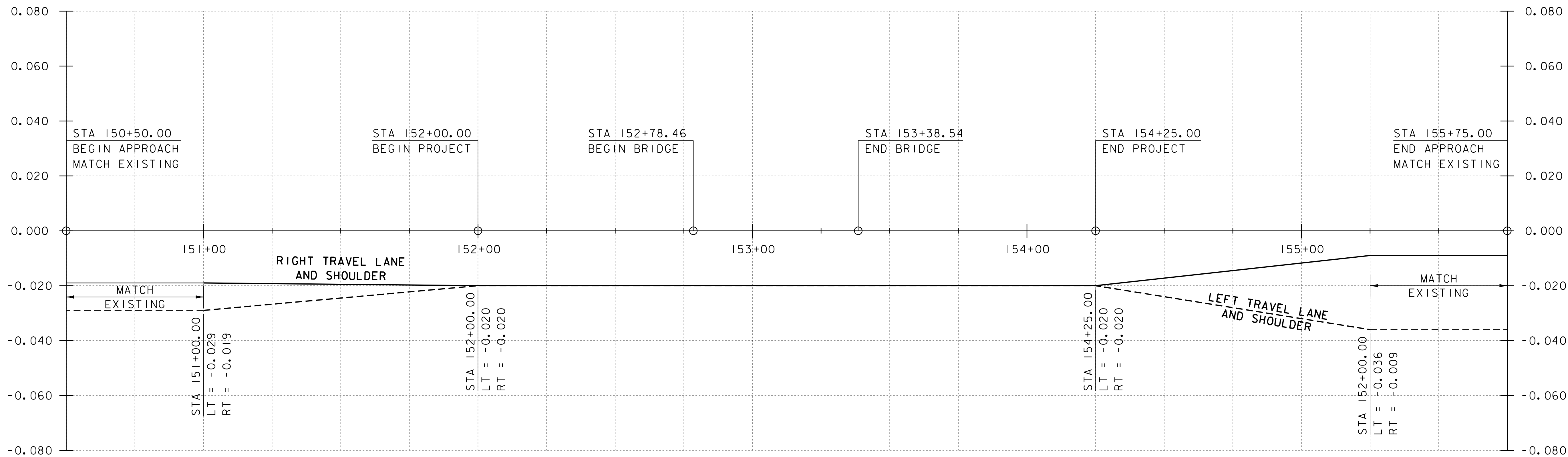
HORIZONTAL SCALE: 1" = 20'-0"  
 VERTICAL SCALE: 1" = 10'-0"

NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

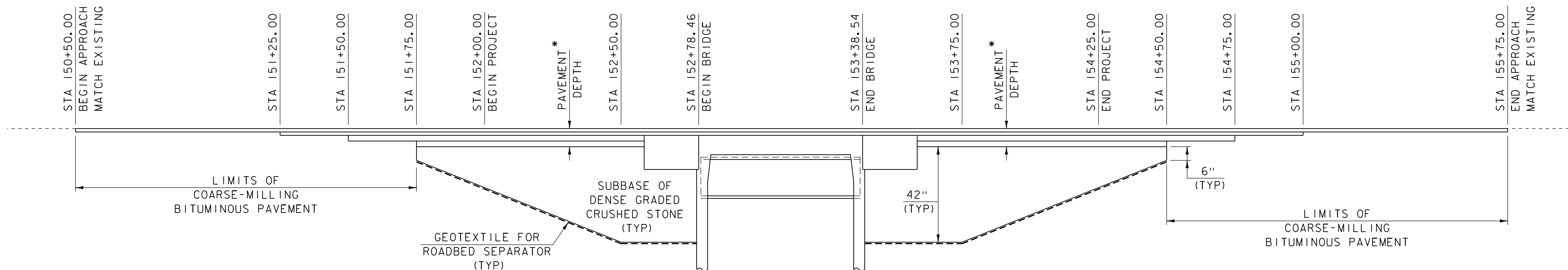
ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

PROJECT NAME: LOWELL	PLOT DATE: 02-MAR-2020
PROJECT NUMBER: BF 029-2 (14)	DRAWN BY: G. ROY
FILE NAME: sl2b592pro.dgn	CHECKED BY: C. BURRALL
PROJECT LEADER: C. COTA	SHEET 10 OF 20
DESIGNED BY: S. COLEY	
VT 100 PROFILE	



**VT 100 BANKING DIAGRAM**

HORIZONTAL SCALE: 1" = 20'-0"  
 VERTICAL SCALE: 1" = 0.020'/'

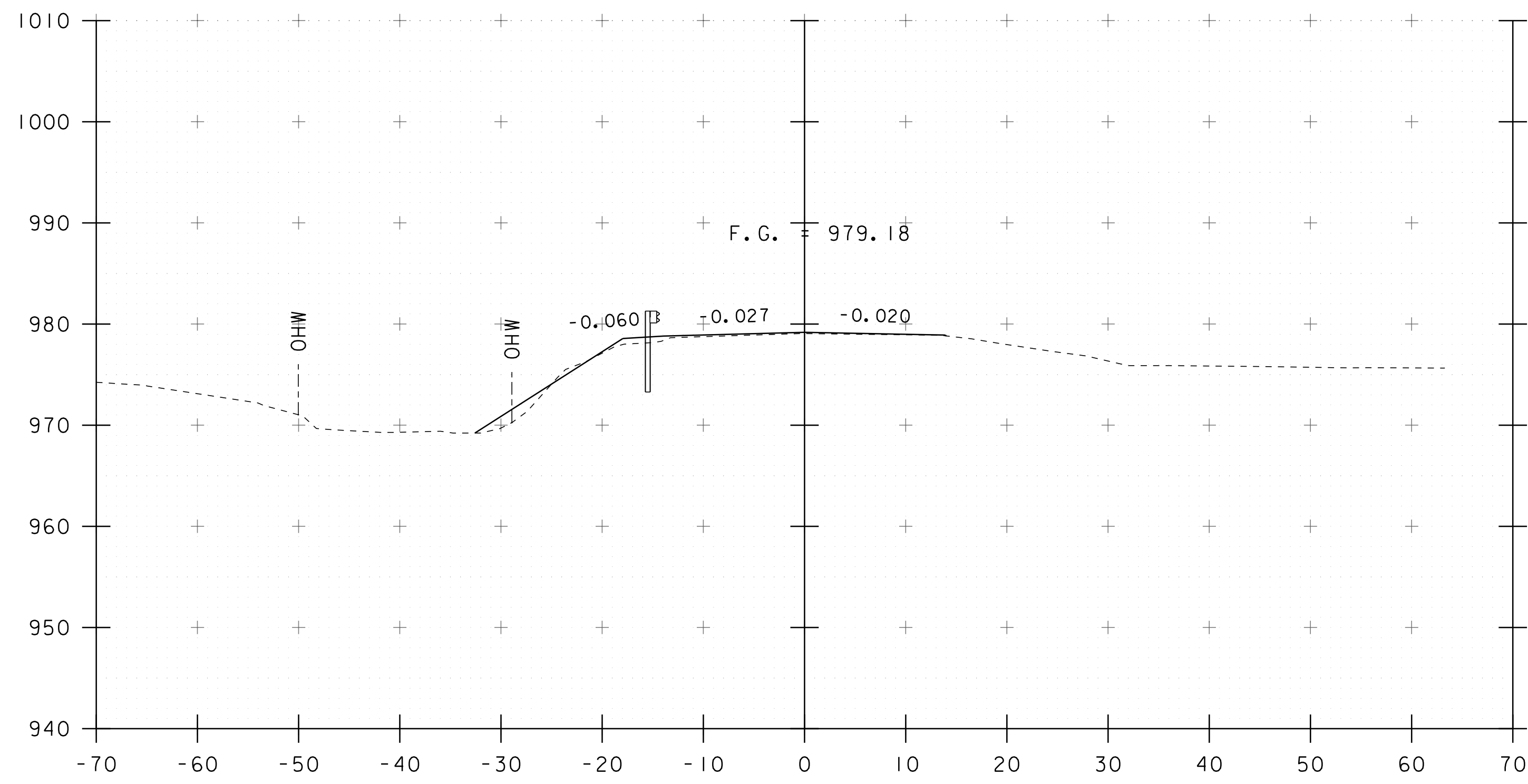


**VT 100 MATERIAL TRANSITION**

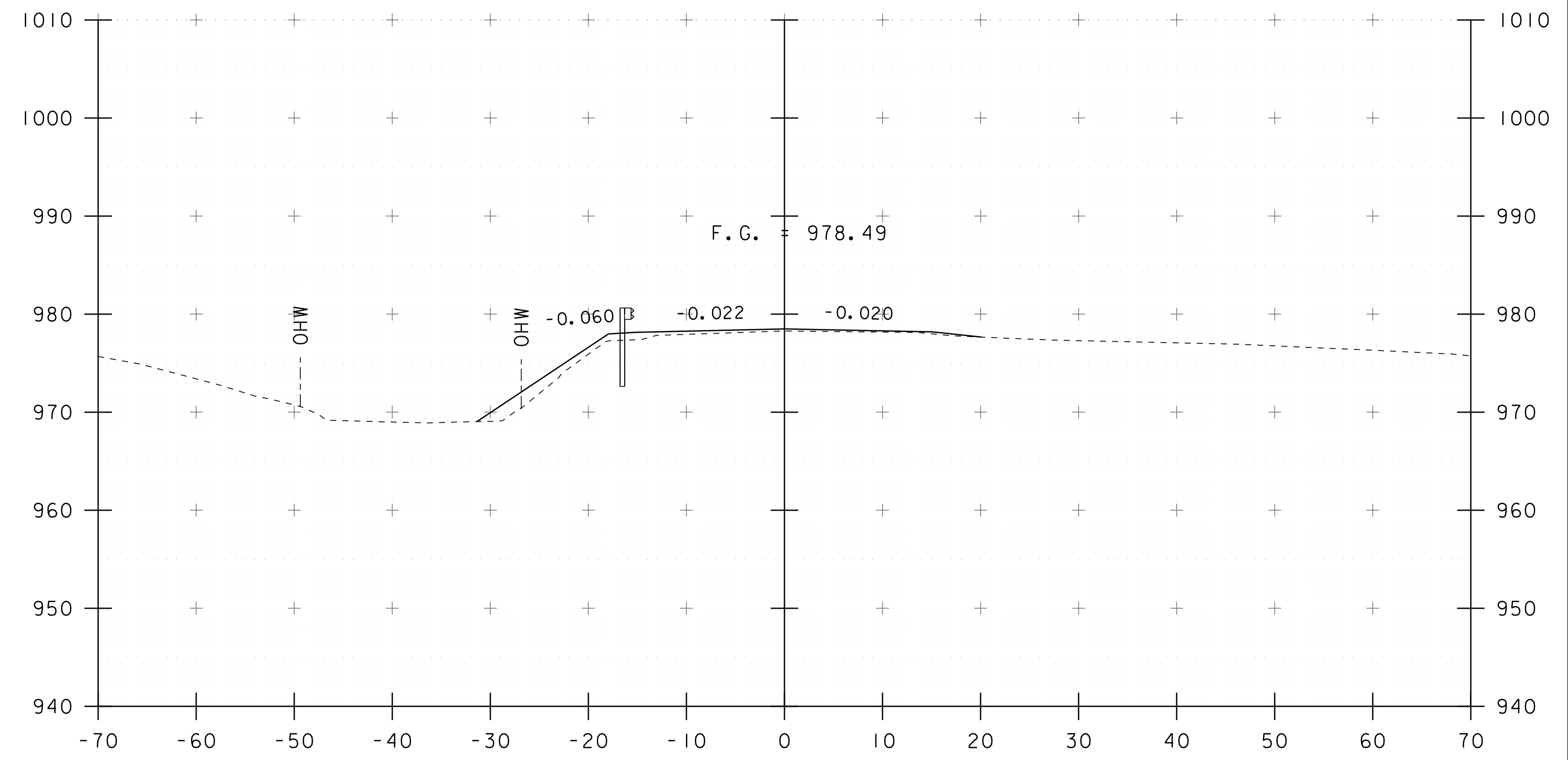
HORIZONTAL SCALE: 1" = 20'-0"  
 VERTICAL SCALE: 1" = 2'-0"

* SEE ROADWAY TYPICAL SECTION FOR PAVEMENT AND SUBBASE MATERIAL DESIGN INFORMATION.

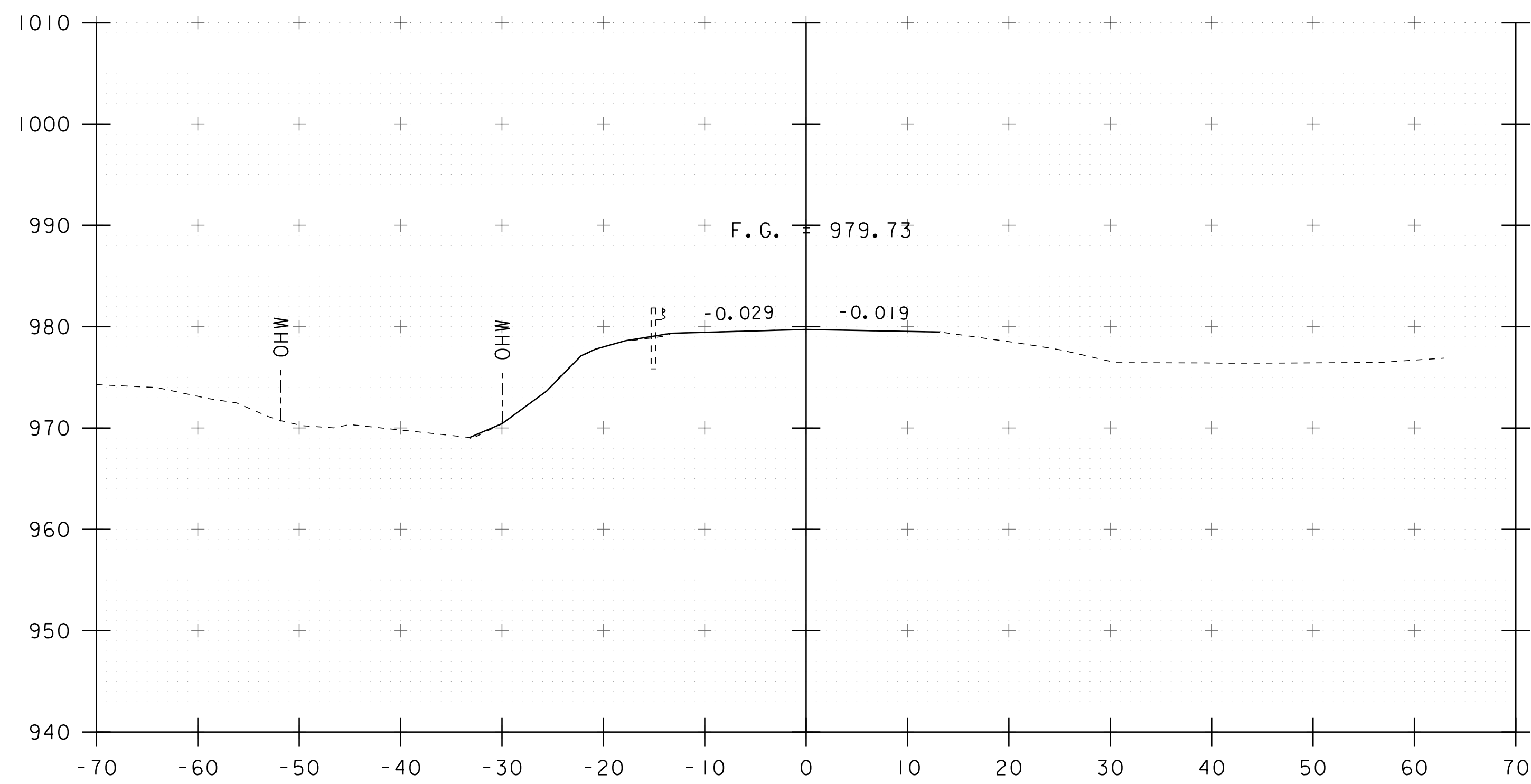
PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592pro.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
VT 100 BANKING AND MATERIAL TRANSITION	SHEET 11 OF 20



151+25

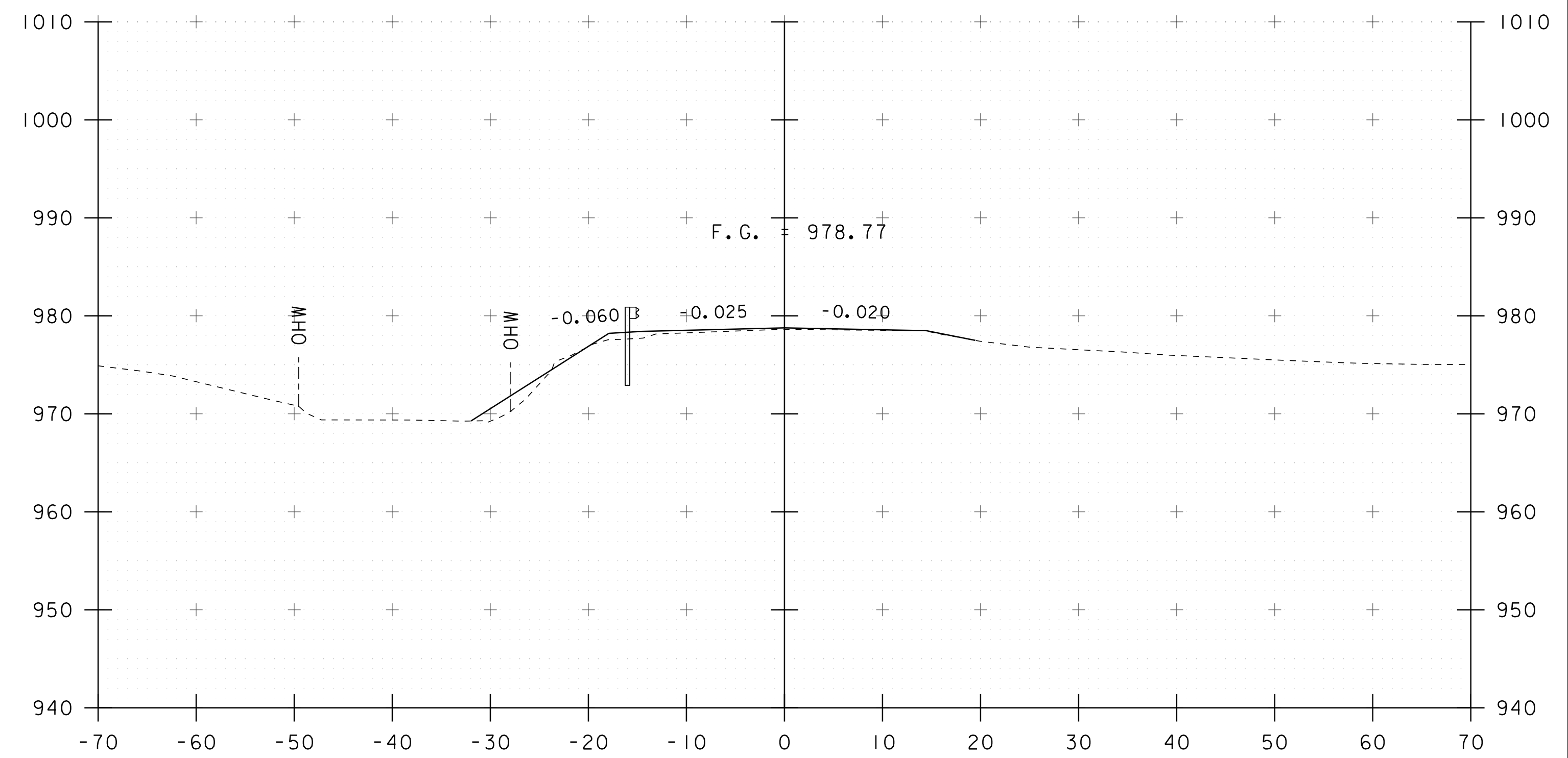


151+75



151+00

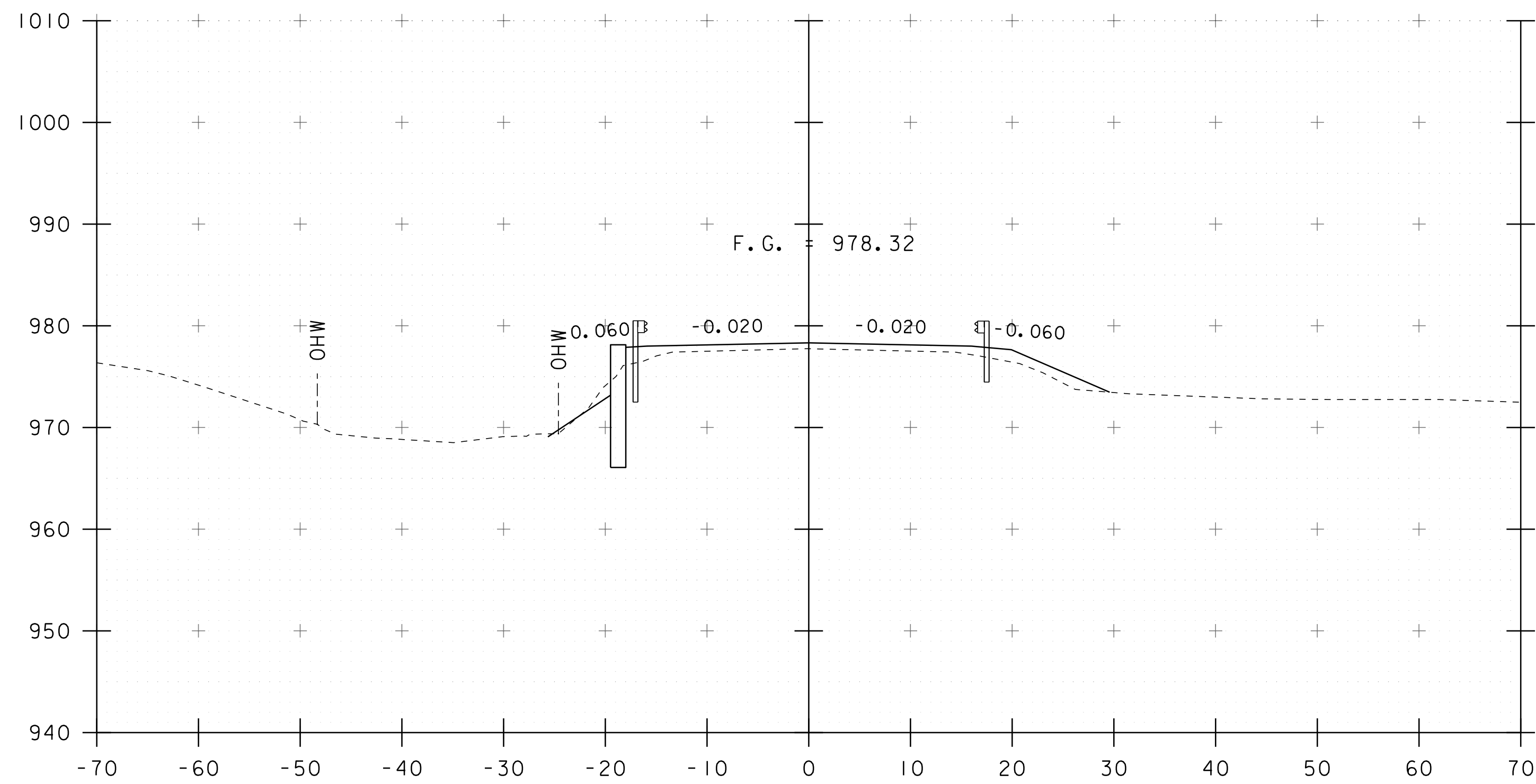
STA 150+50.00  
BEGIN APPROACH  
MATCH EXISTING



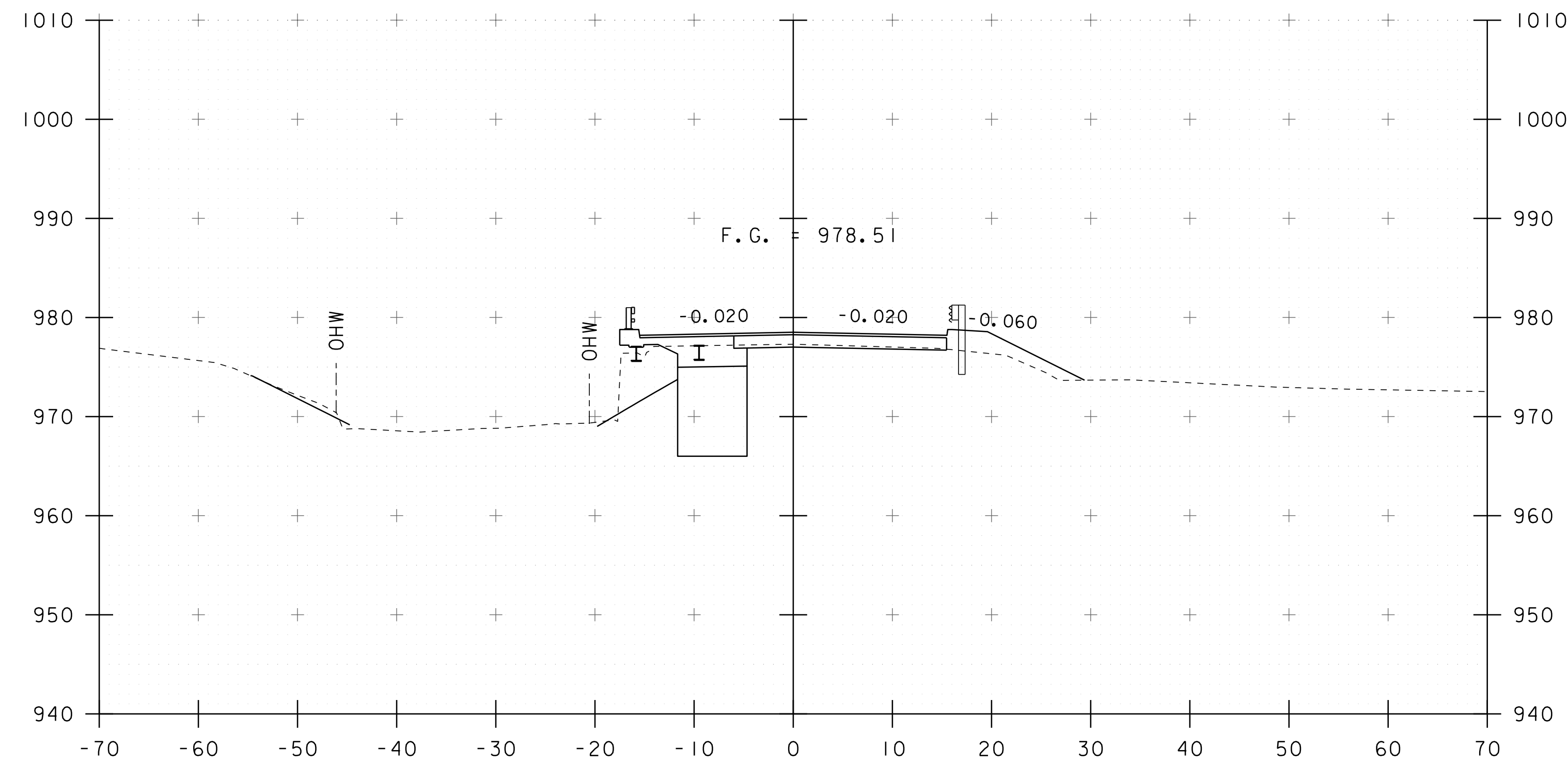
151+50

STA. 151+00 TO STA. 151+75

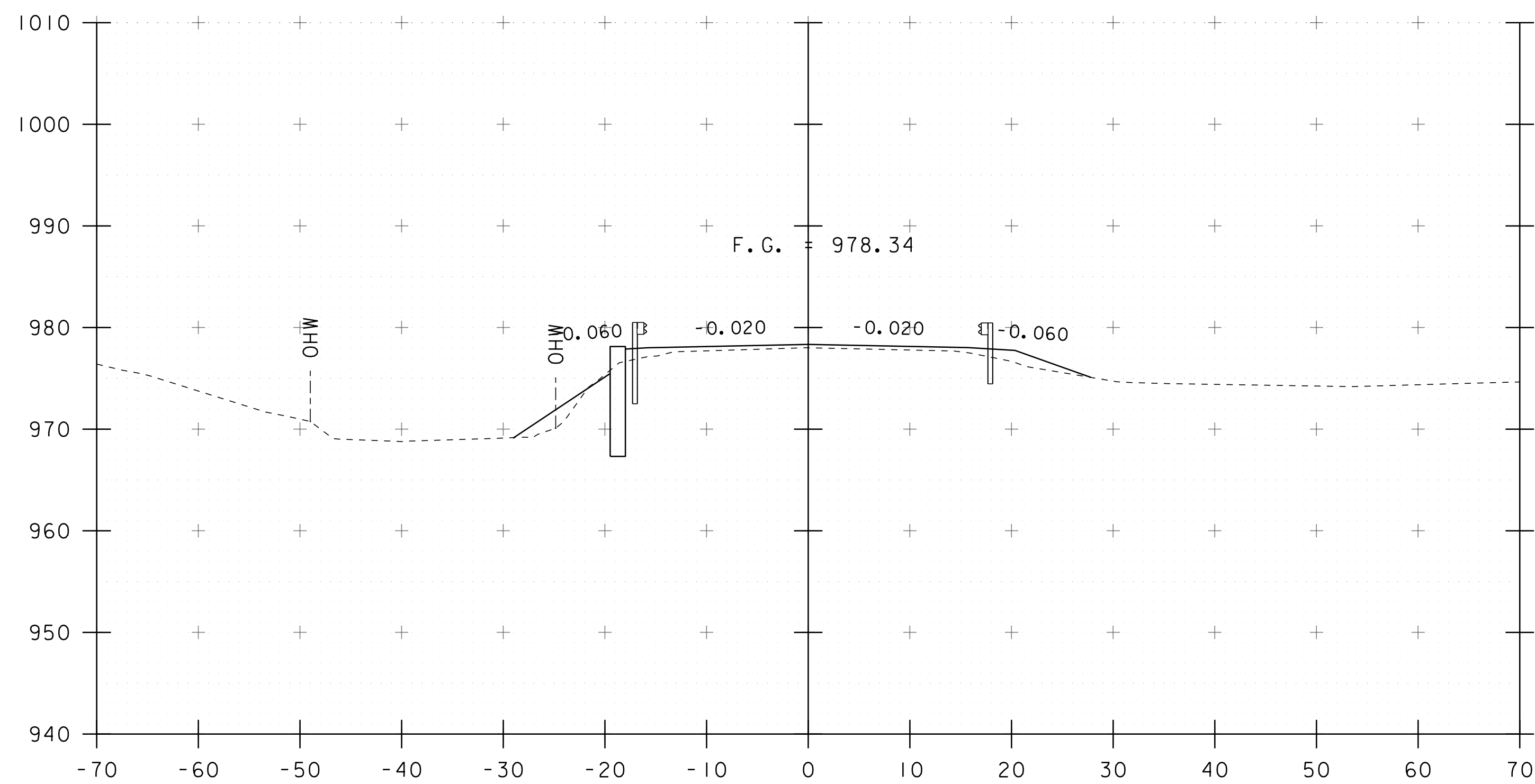
PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
VT 100 CROSS SECTIONS (1)	SHEET 12 OF 20



152+25

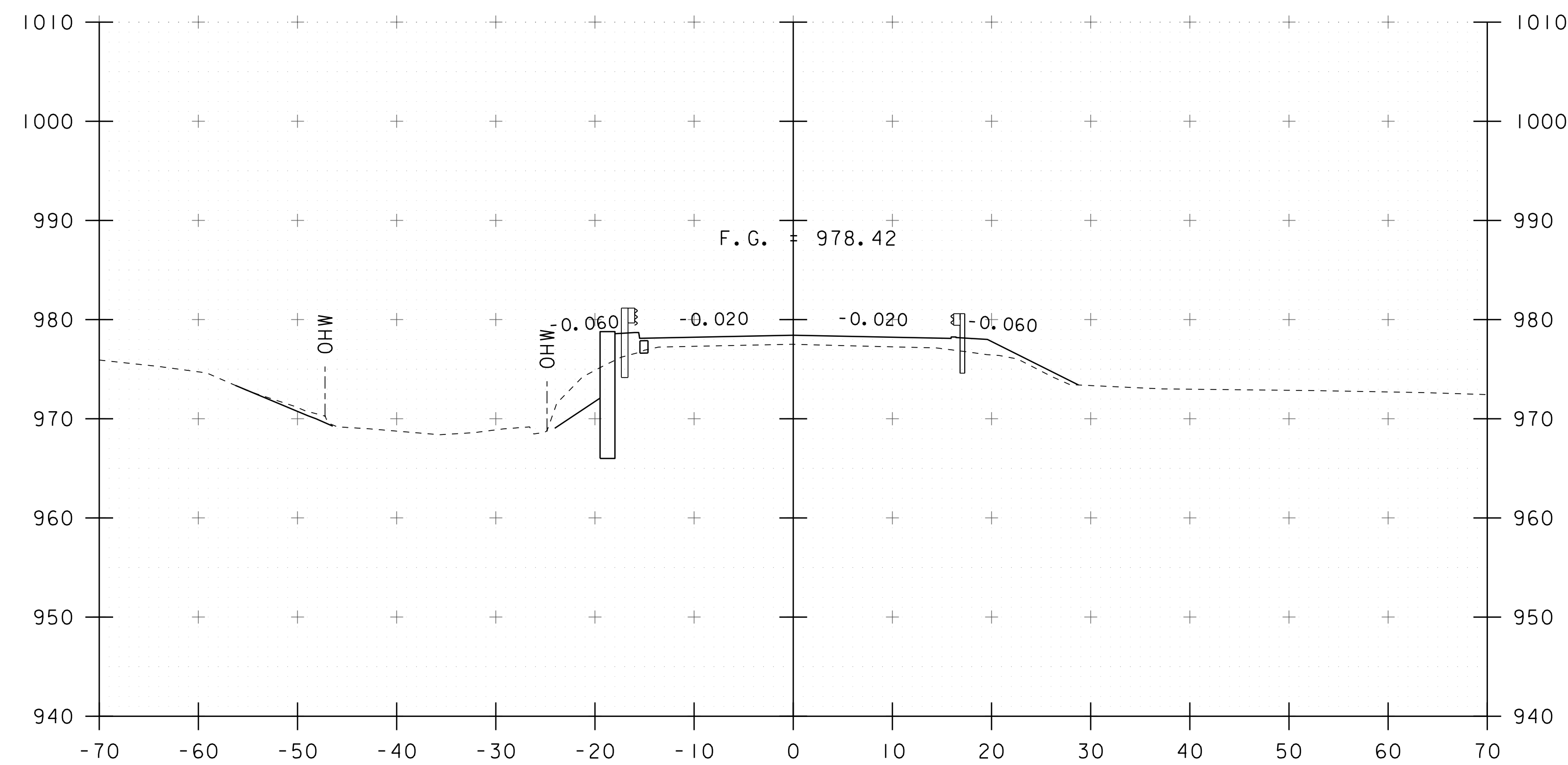


152+75



152+00

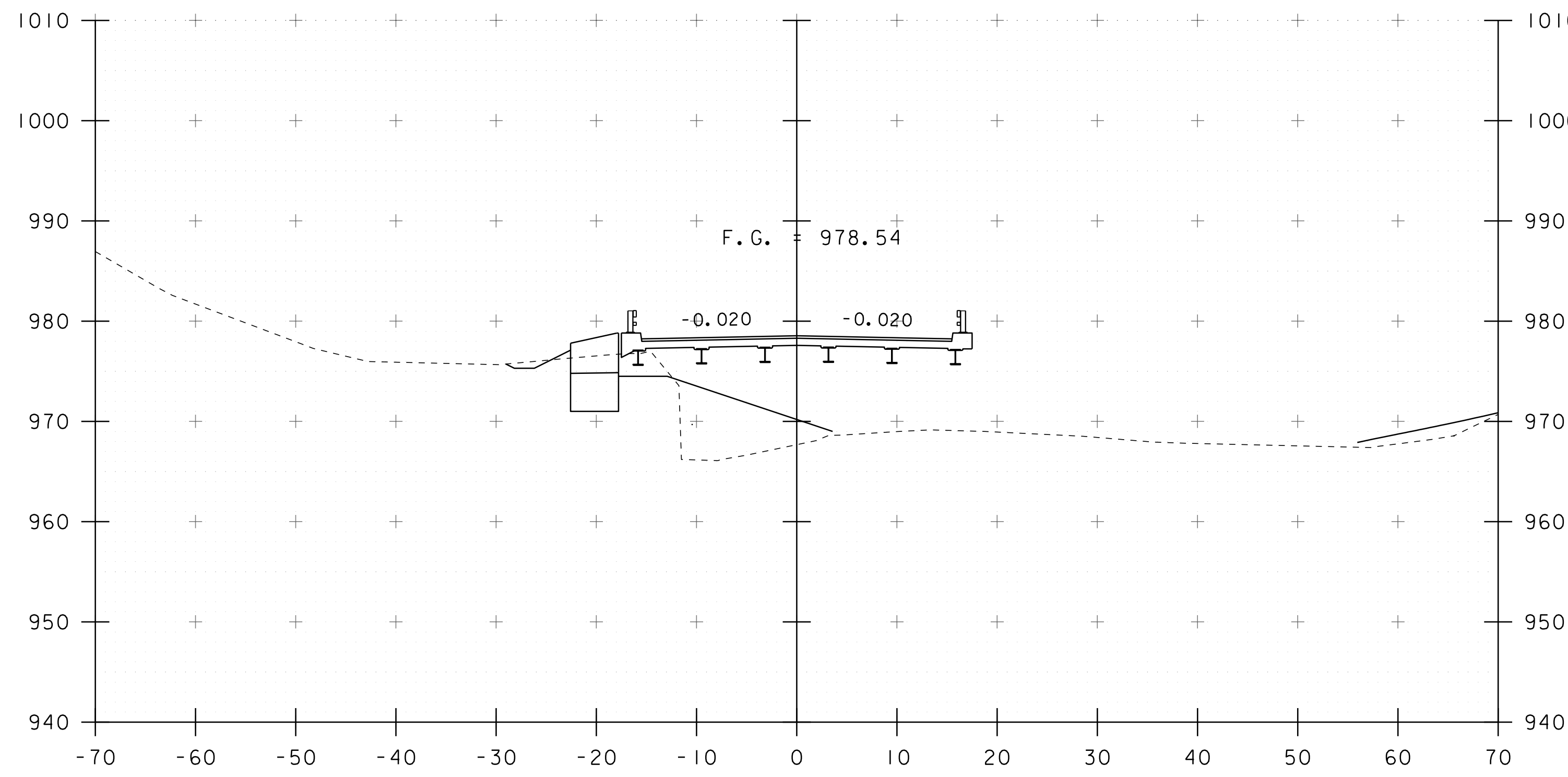
STA 152+00.00  
BEGIN PROJECT



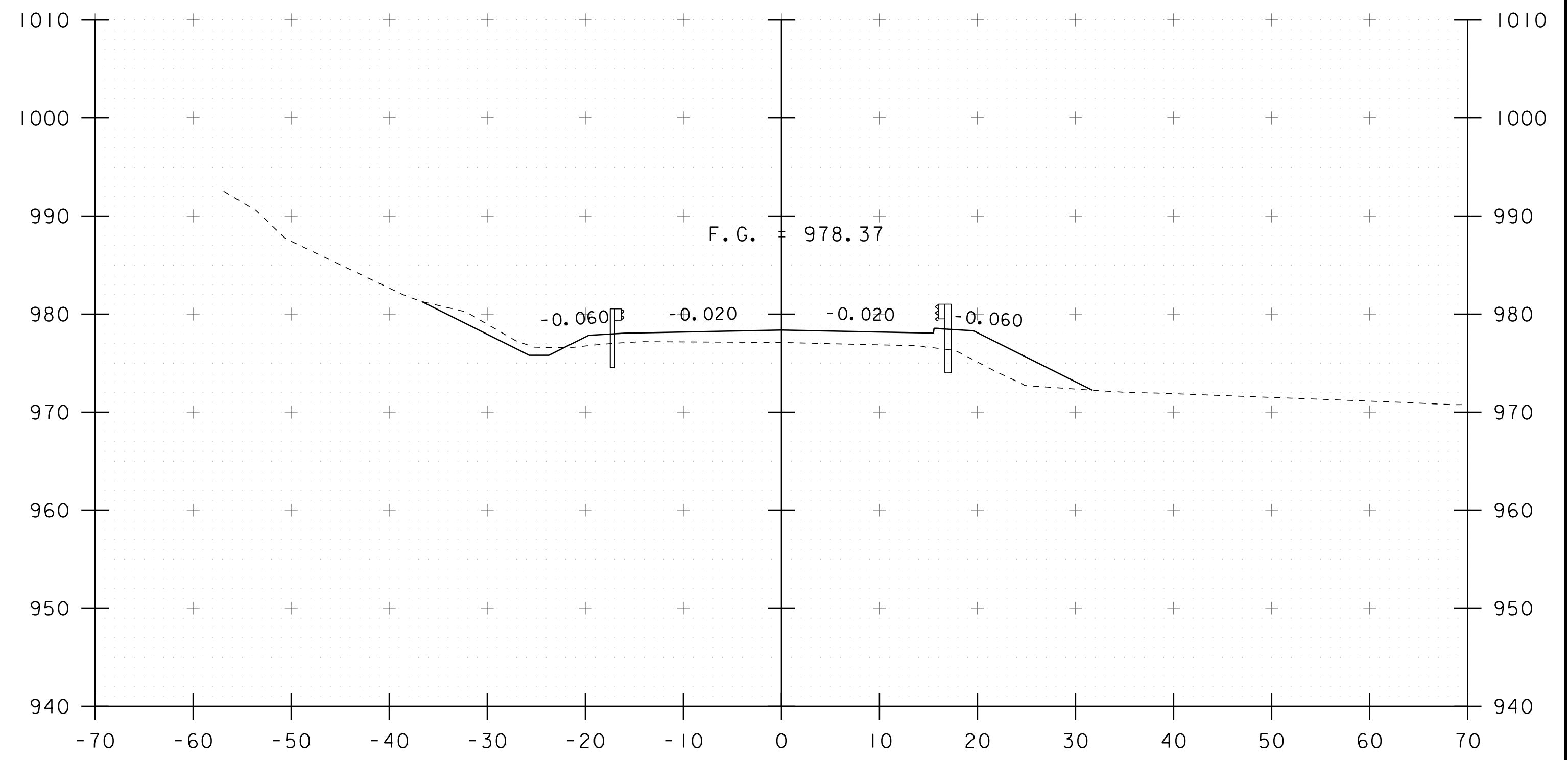
152+50

STA. 152+00 TO STA. 152+75

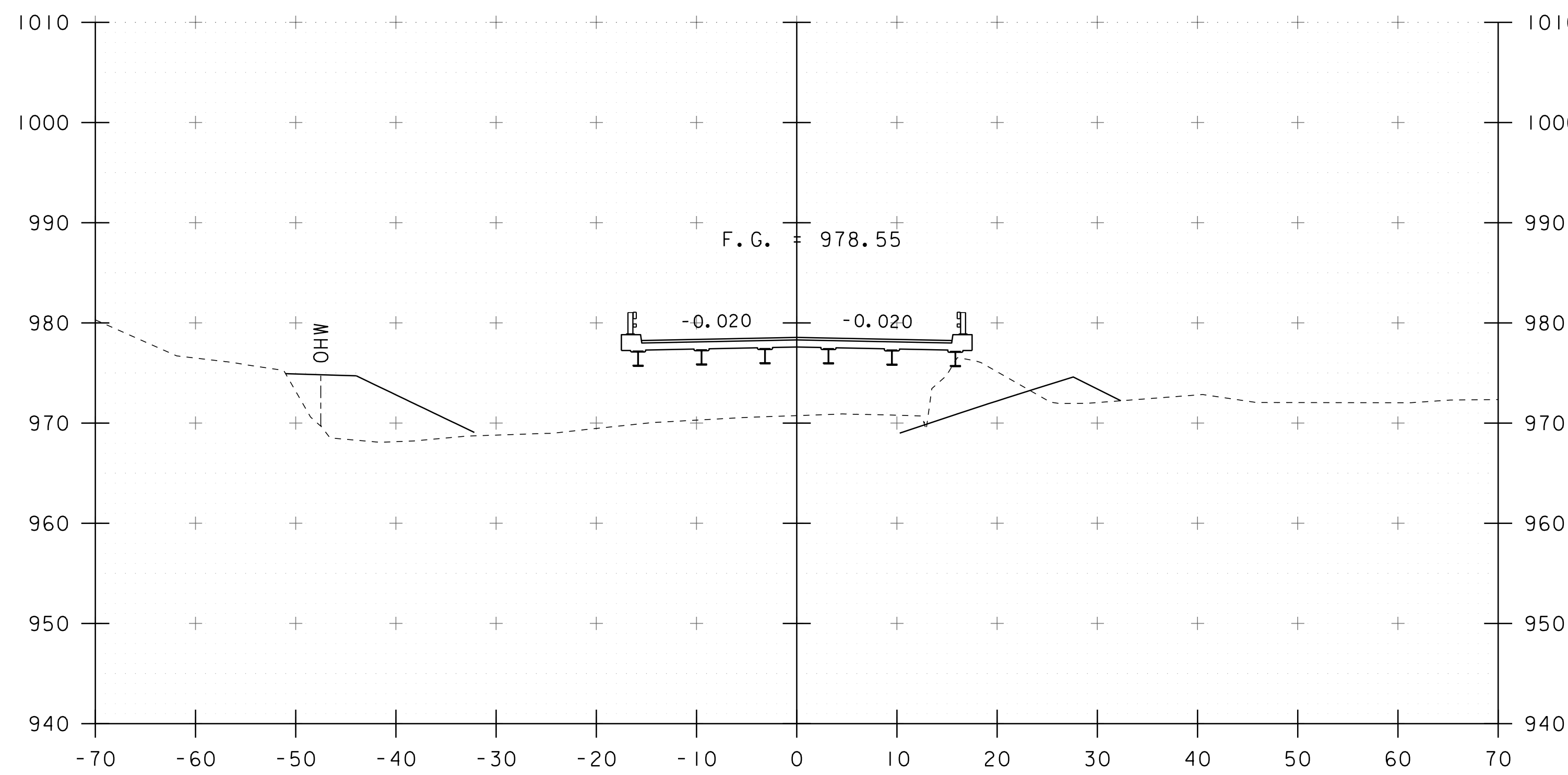
PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
VT 100 CROSS SECTIONS (2)	SHEET 13 OF 20



153+25

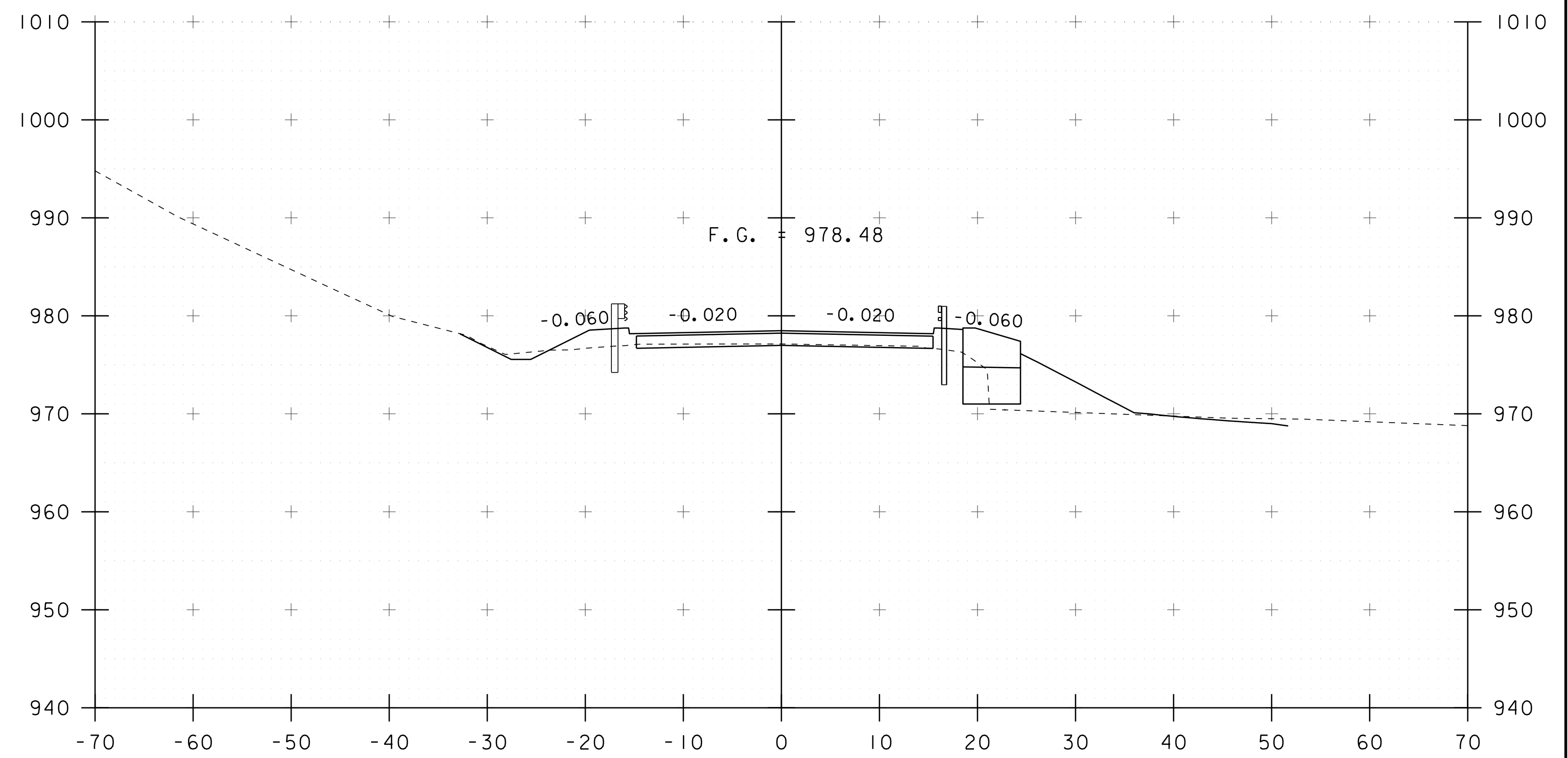


153+75



153+00

STA 152+78.46  
BEGIN BRIDGE

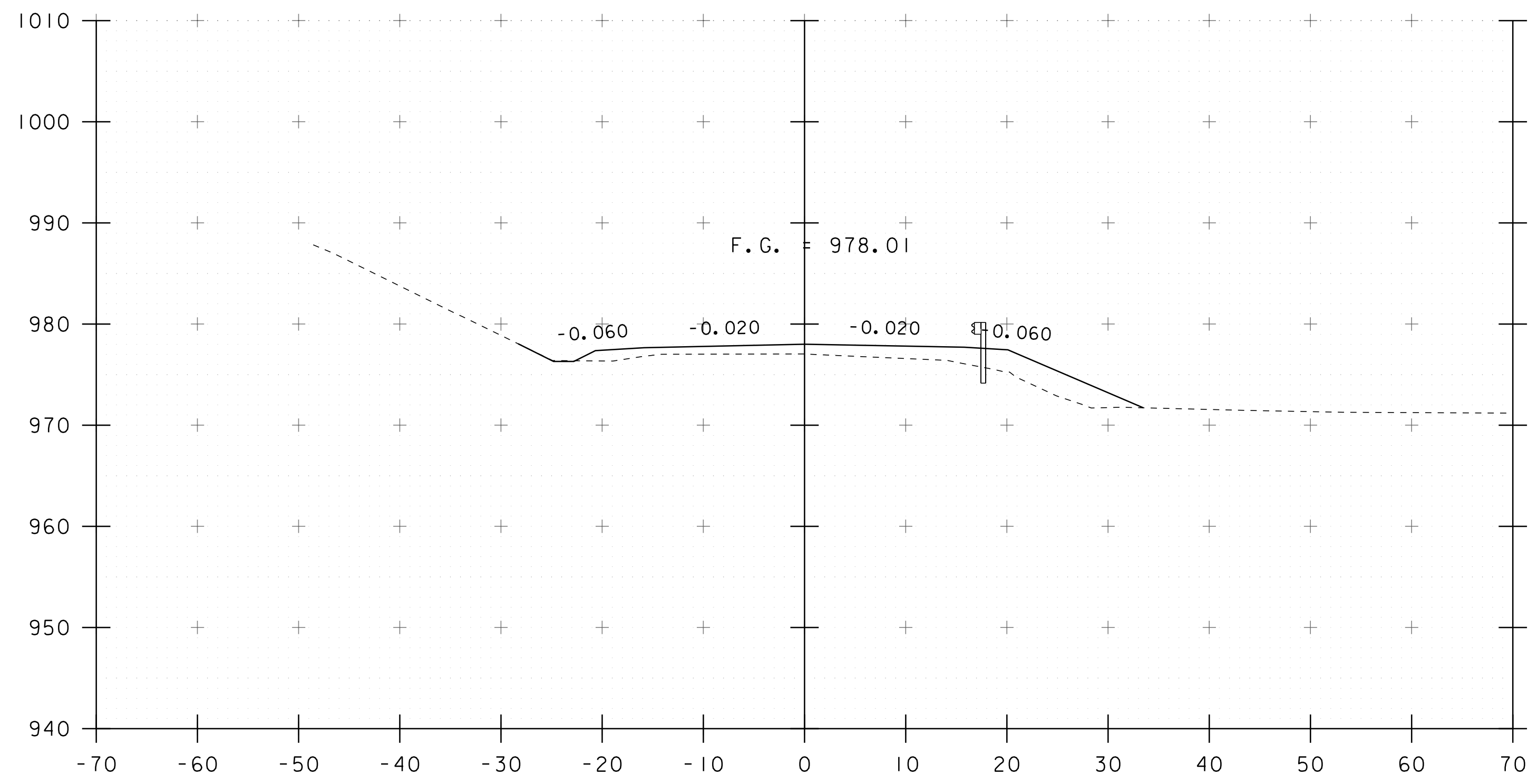


153+50

STA 153+38.54  
END BRIDGE

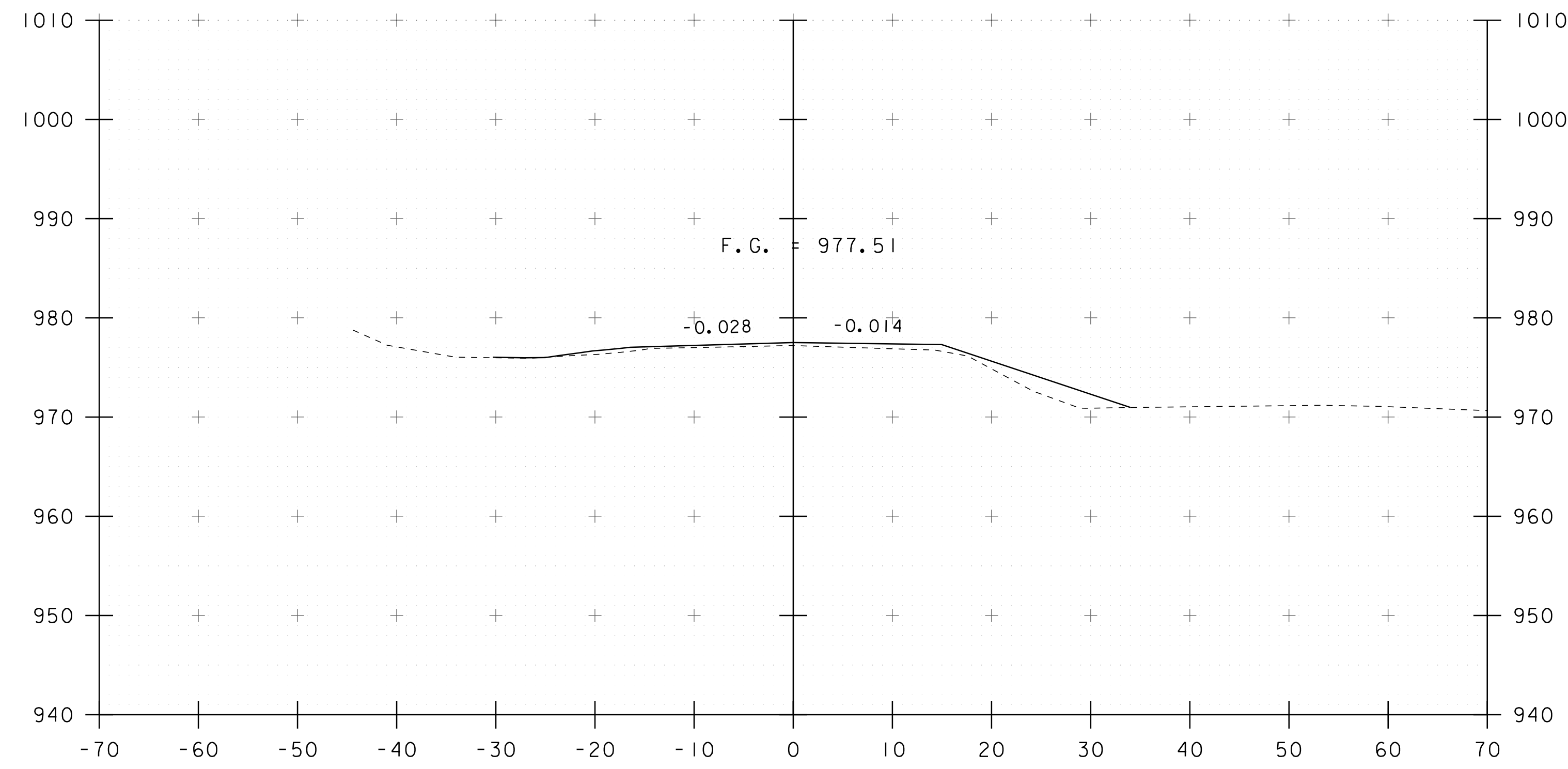
STA. 153+00 TO STA. 153+75

PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
VT 100 CROSS SECTIONS (3)	SHEET 14 OF 20

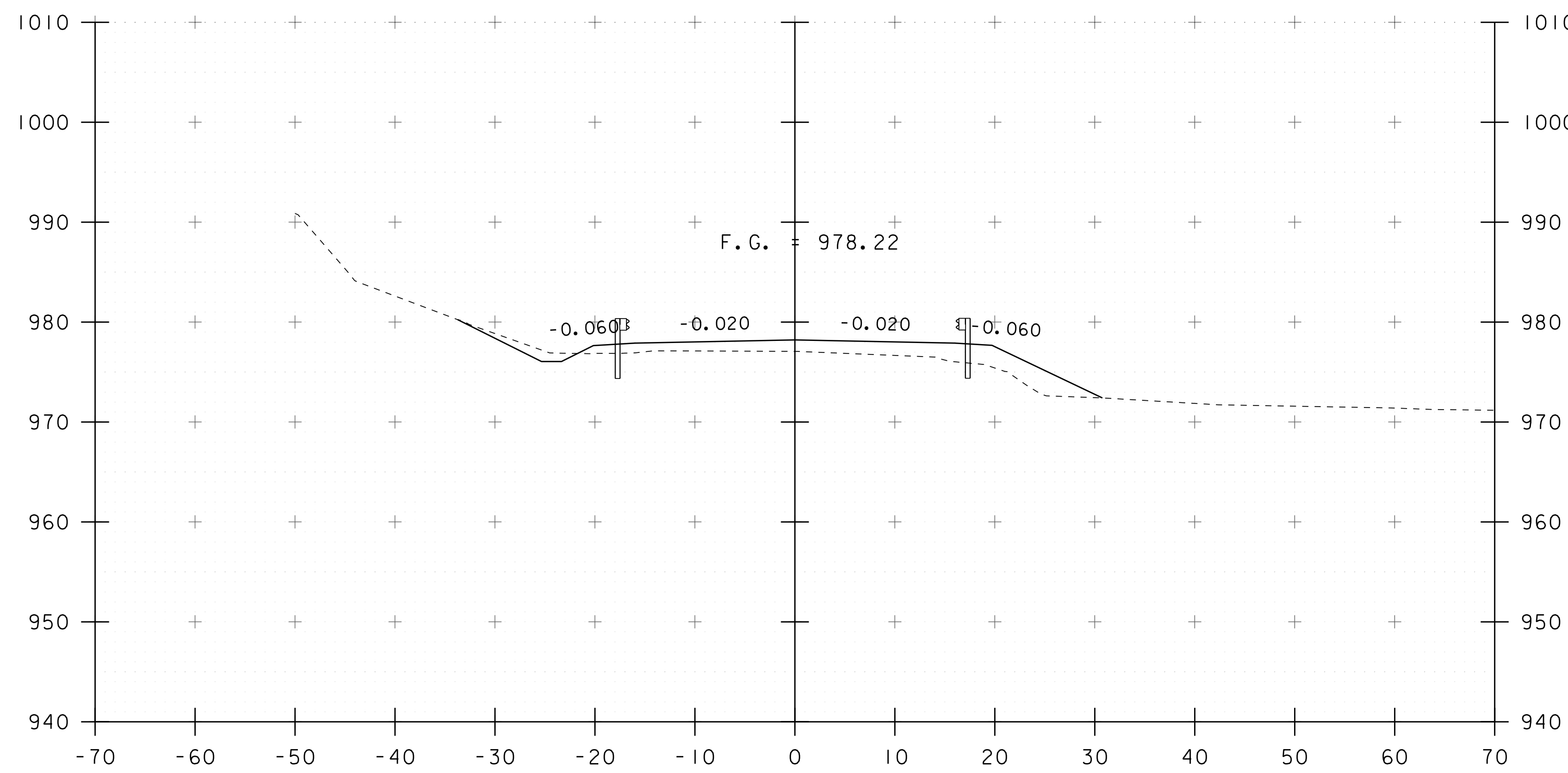


154+25

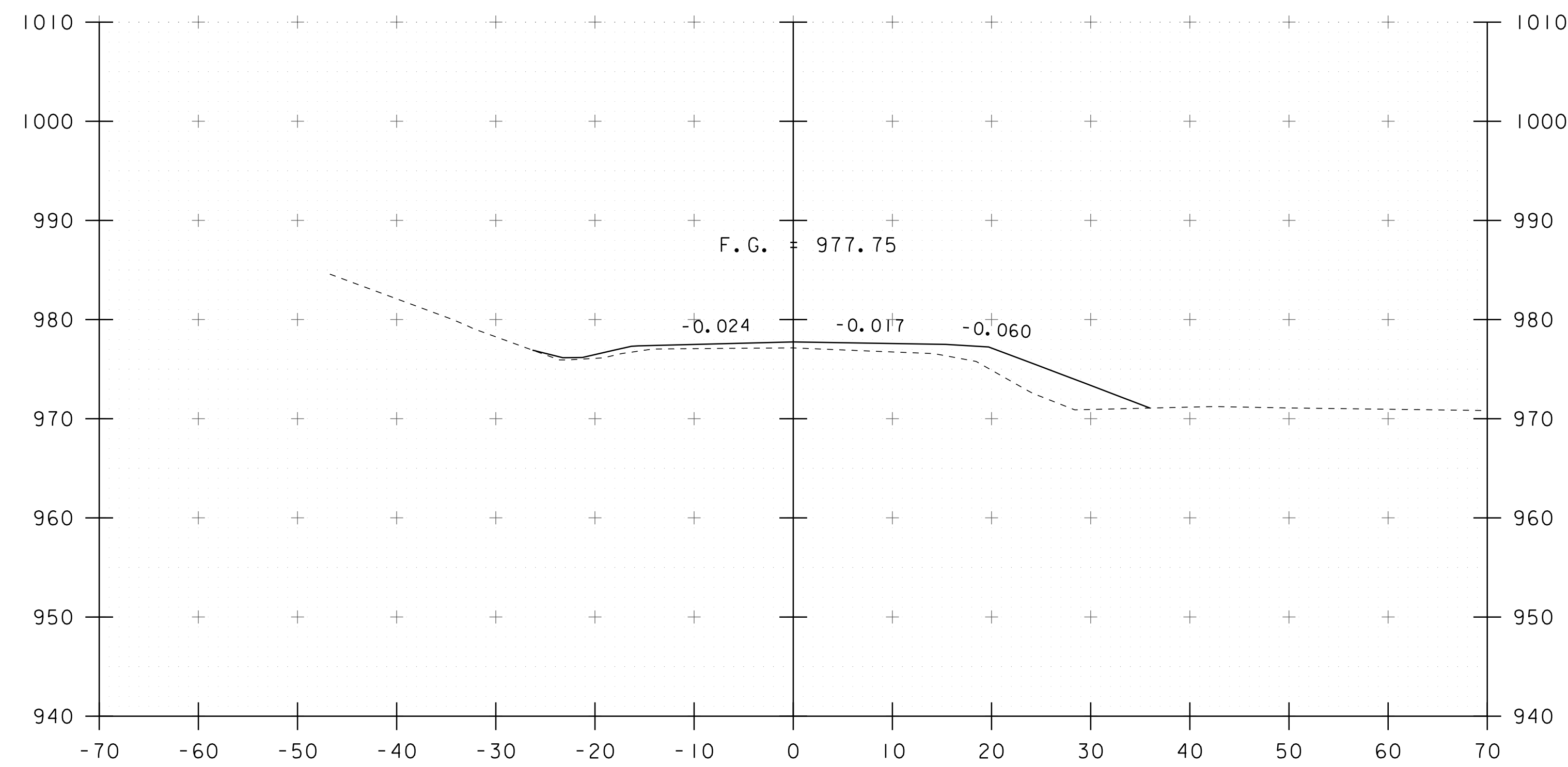
STA 154+25.00  
END PROJECT



154+75



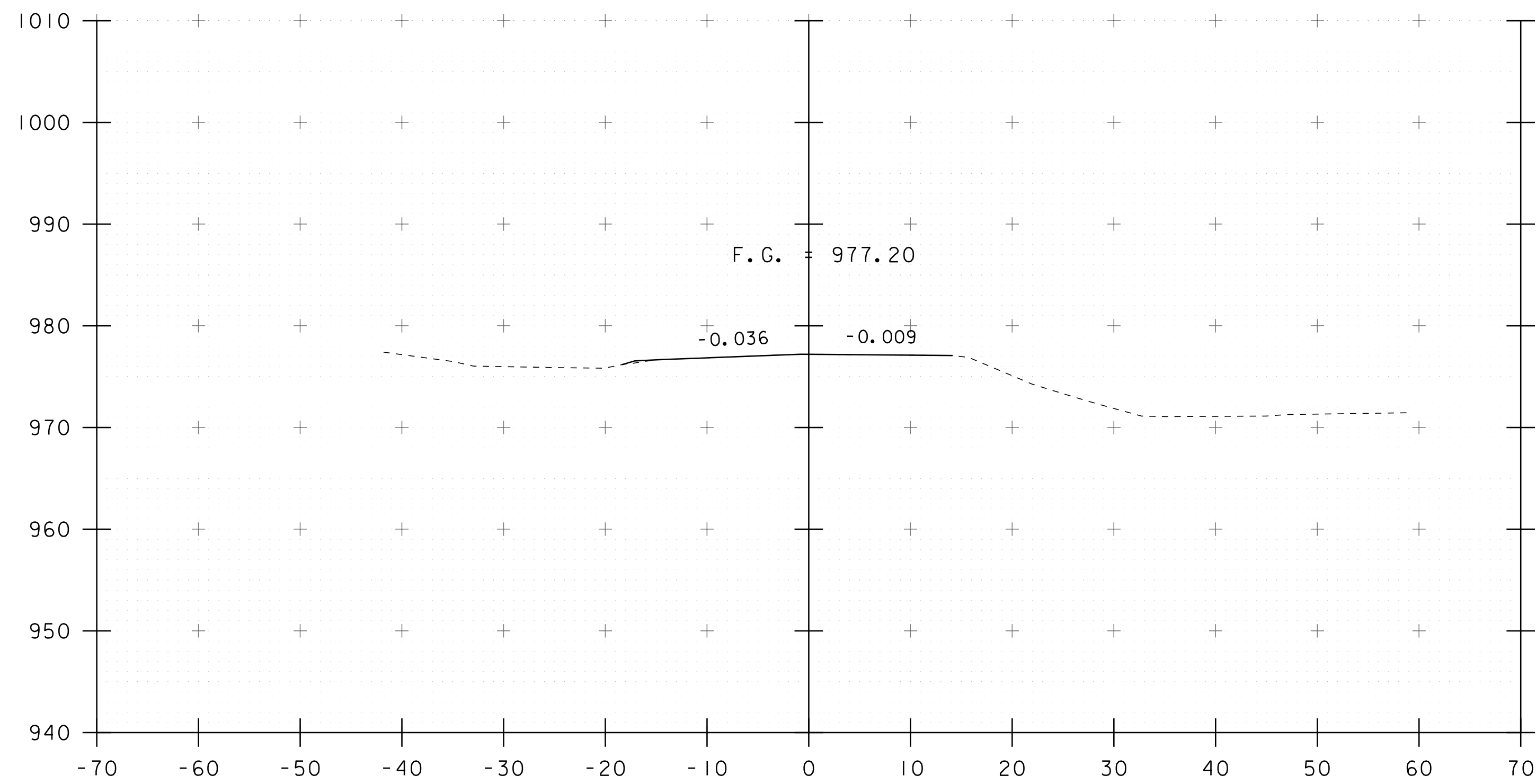
154+00



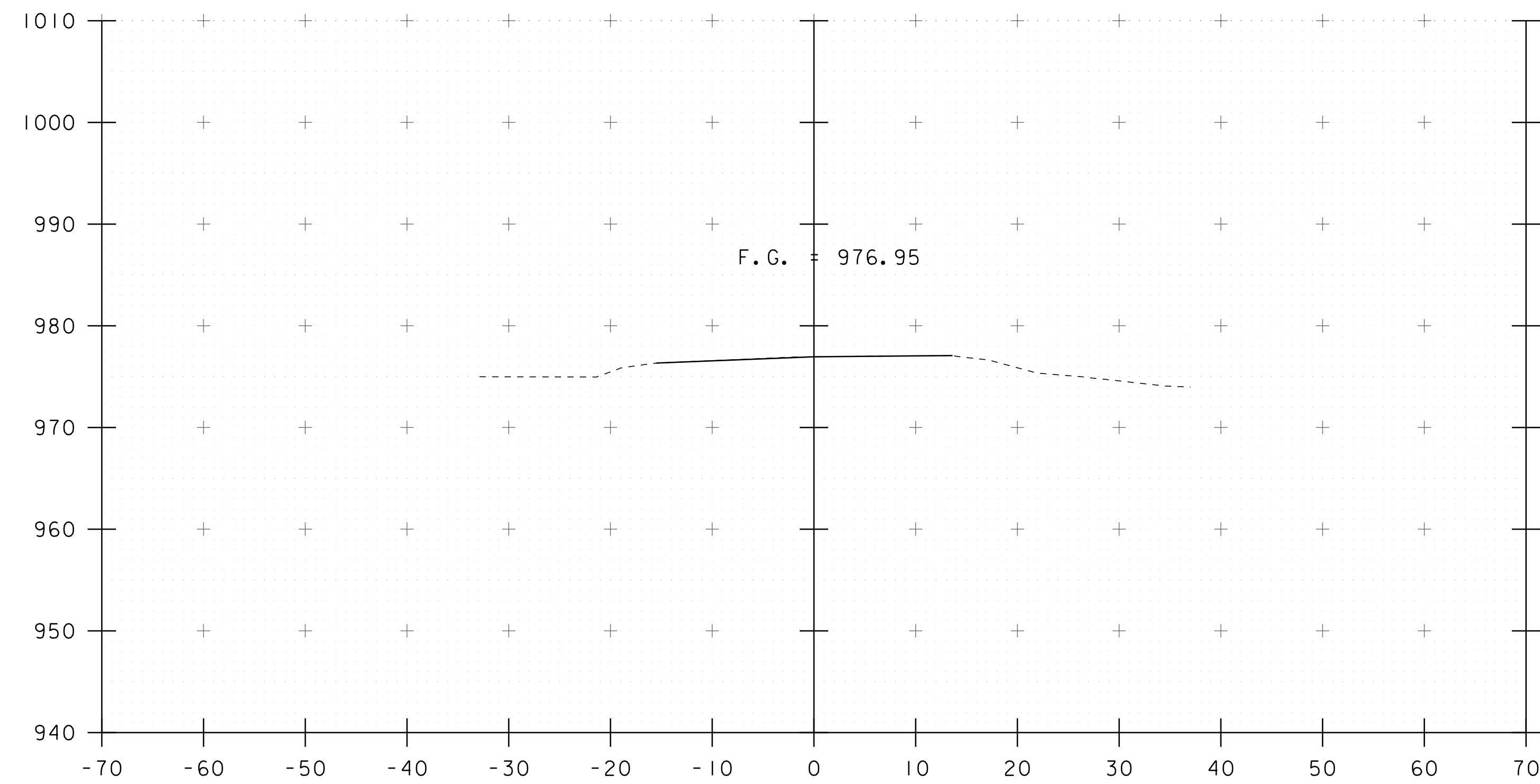
154+50

STA. 154+00 TO STA. 154+75

PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
VT 100 CROSS SECTIONS (4)	SHEET 15 OF 20

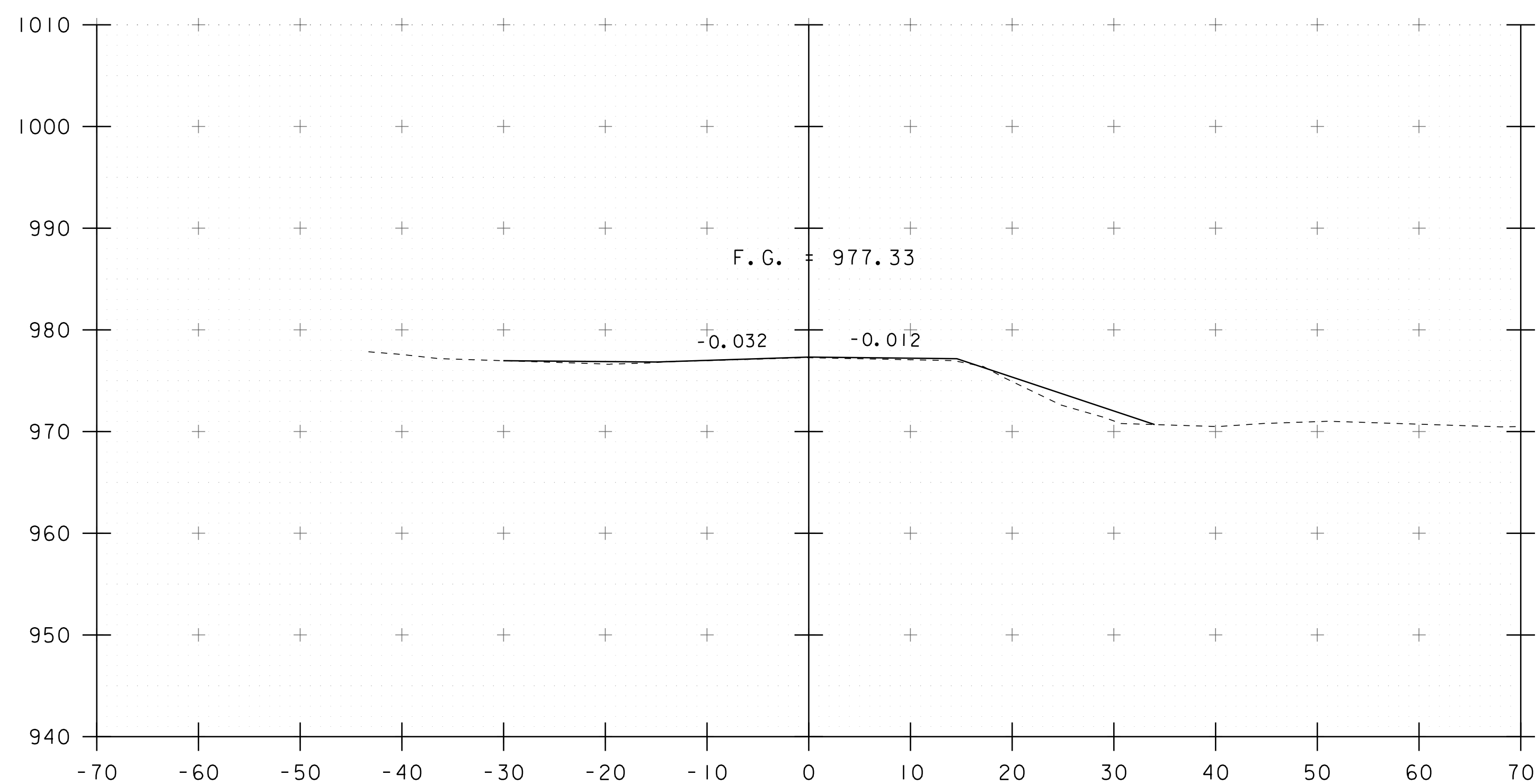


155+25

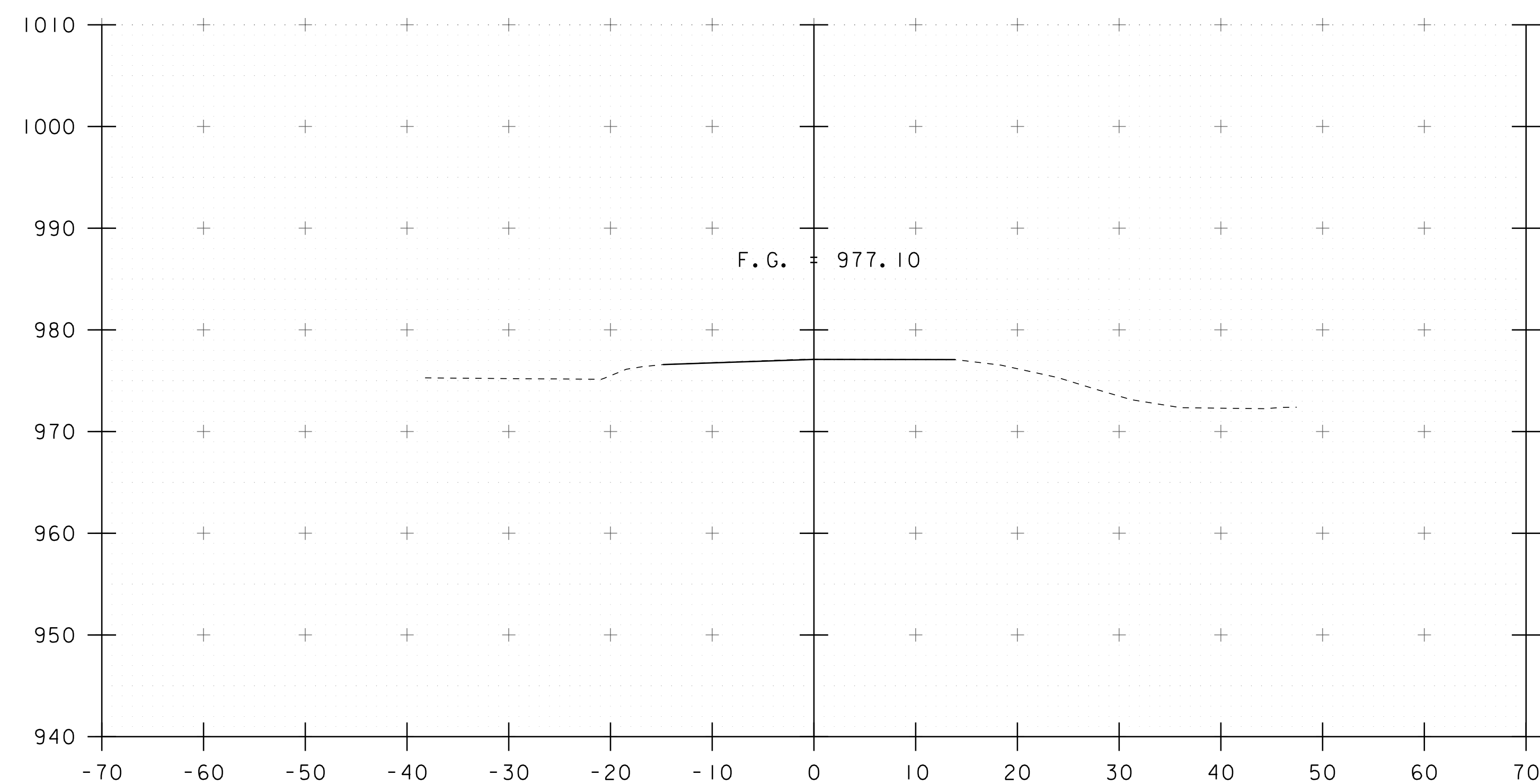


155+75

STA 155+75.00  
END APPROACH  
MATCH EXISTING



155+00

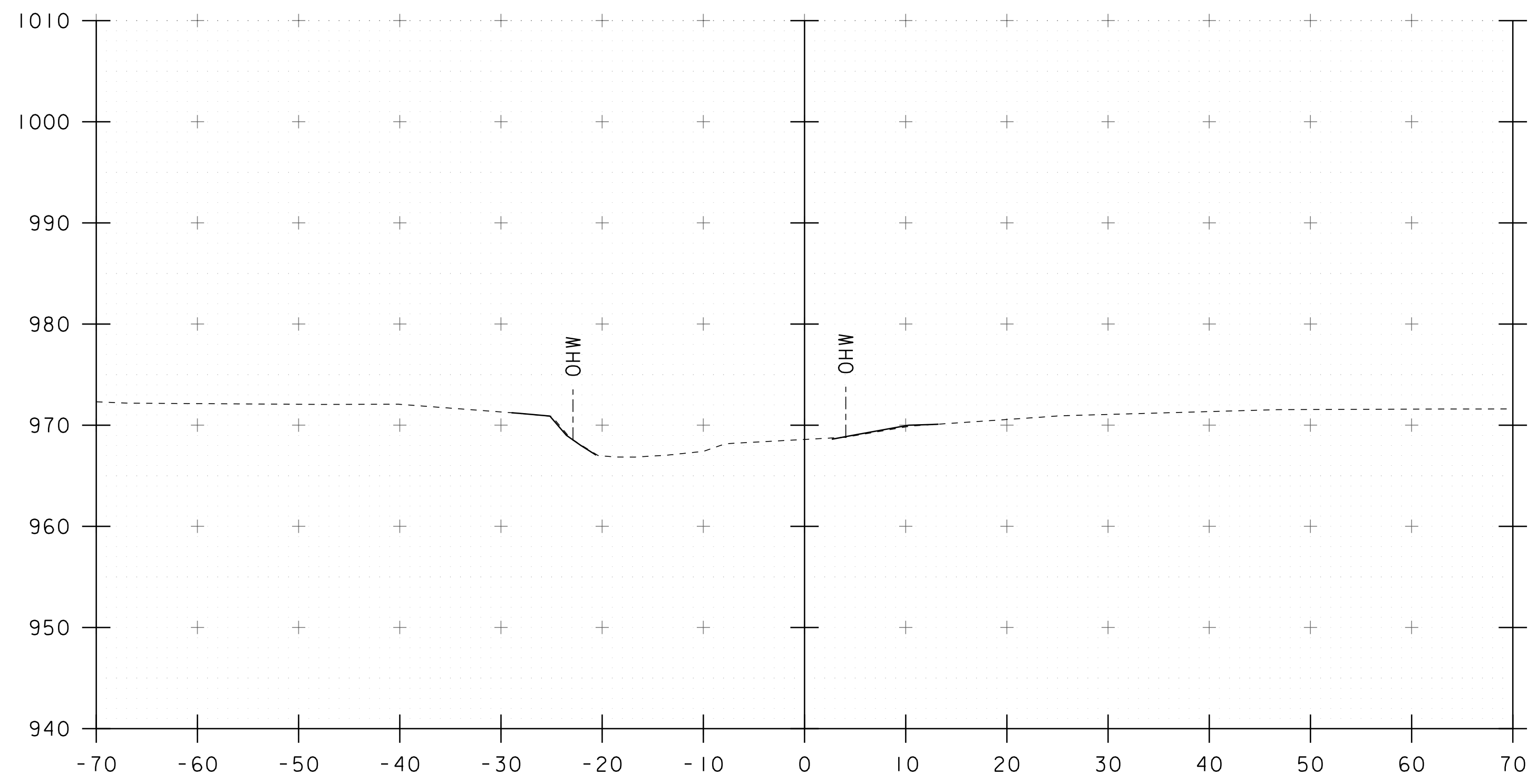


155+50

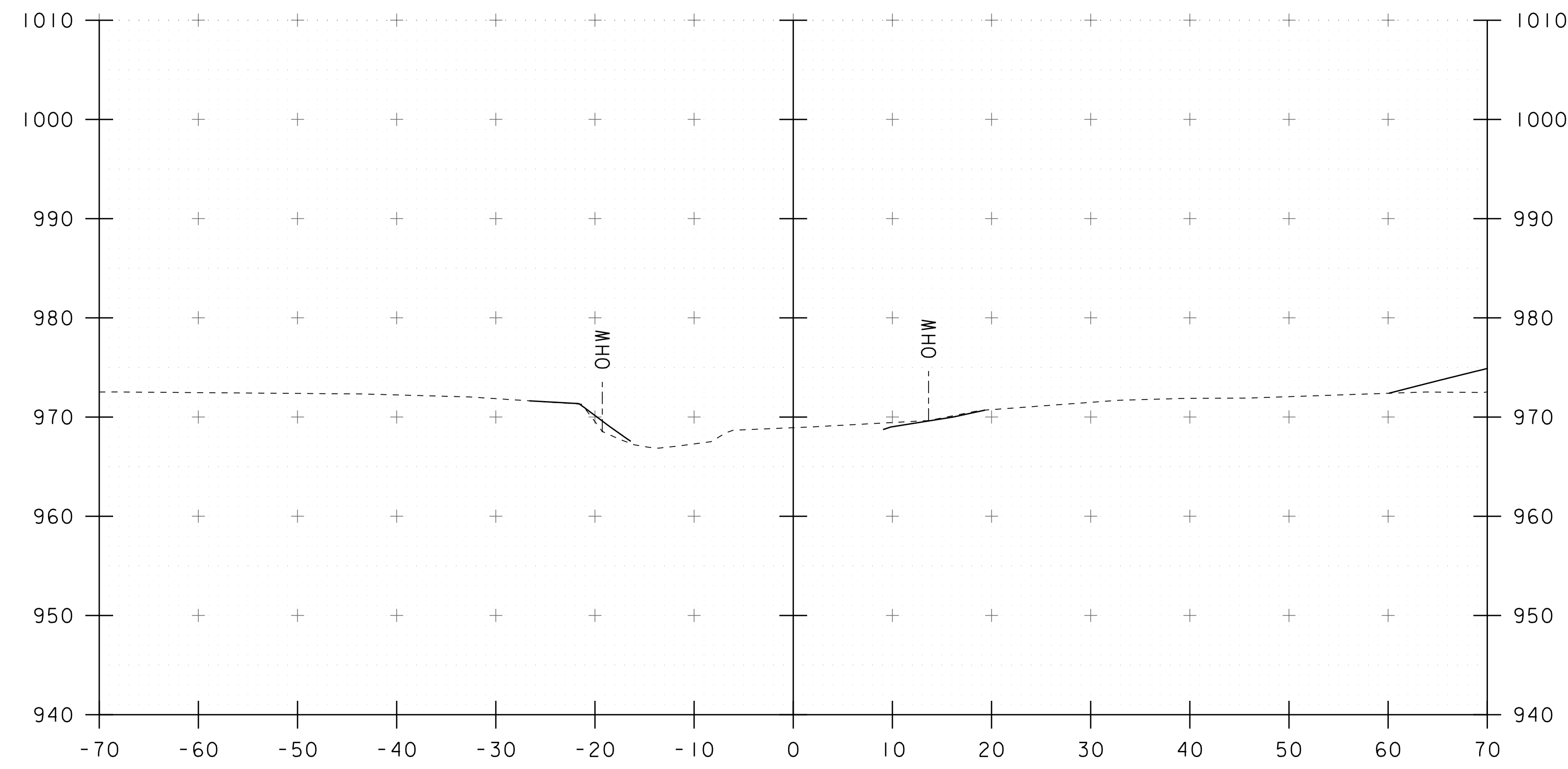
STA. 155+00 TO STA. 155+75

PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
VT 100 CROSS SECTIONS (5)	SHEET 16 OF 20

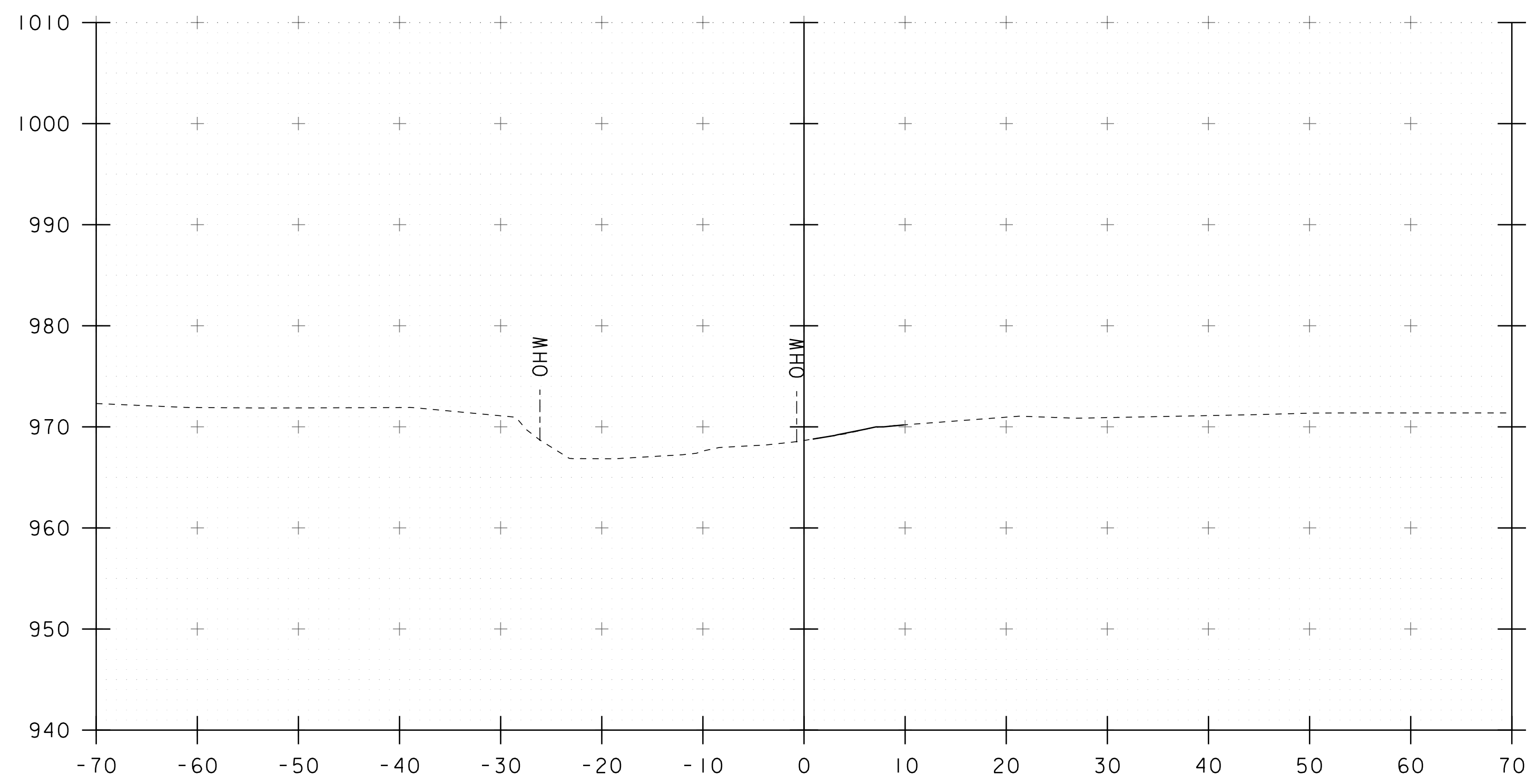




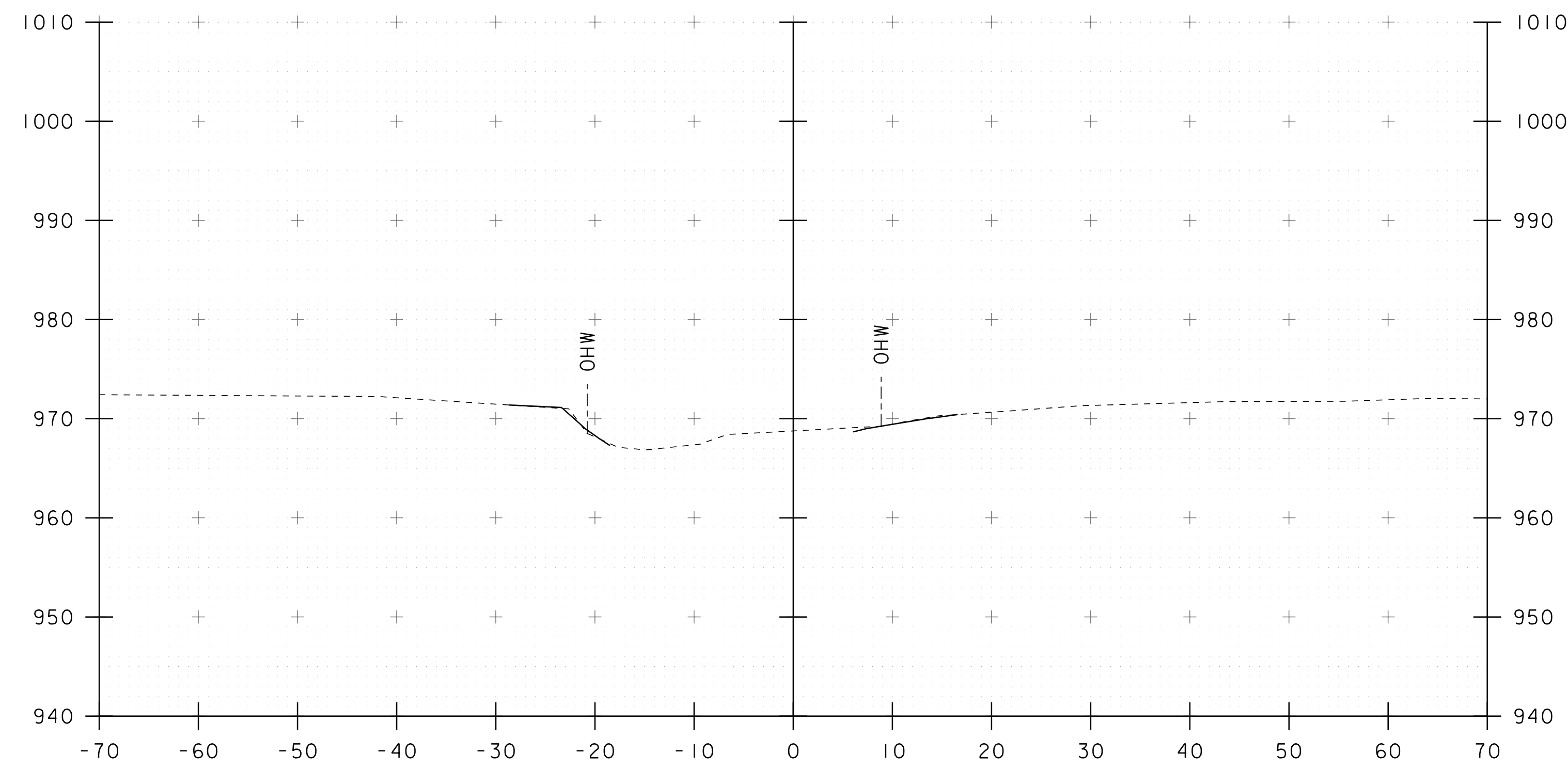
50+10



50+30



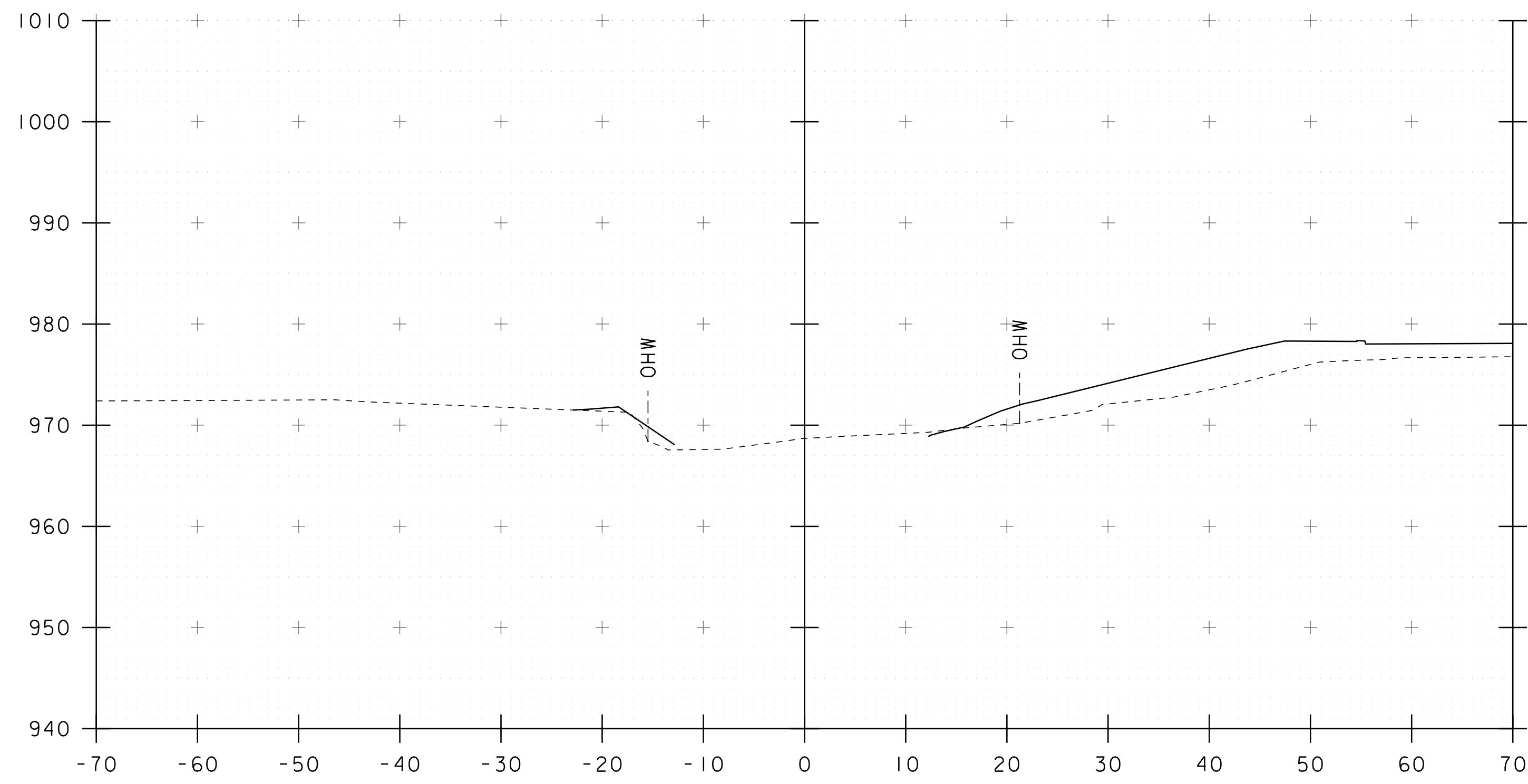
50+00



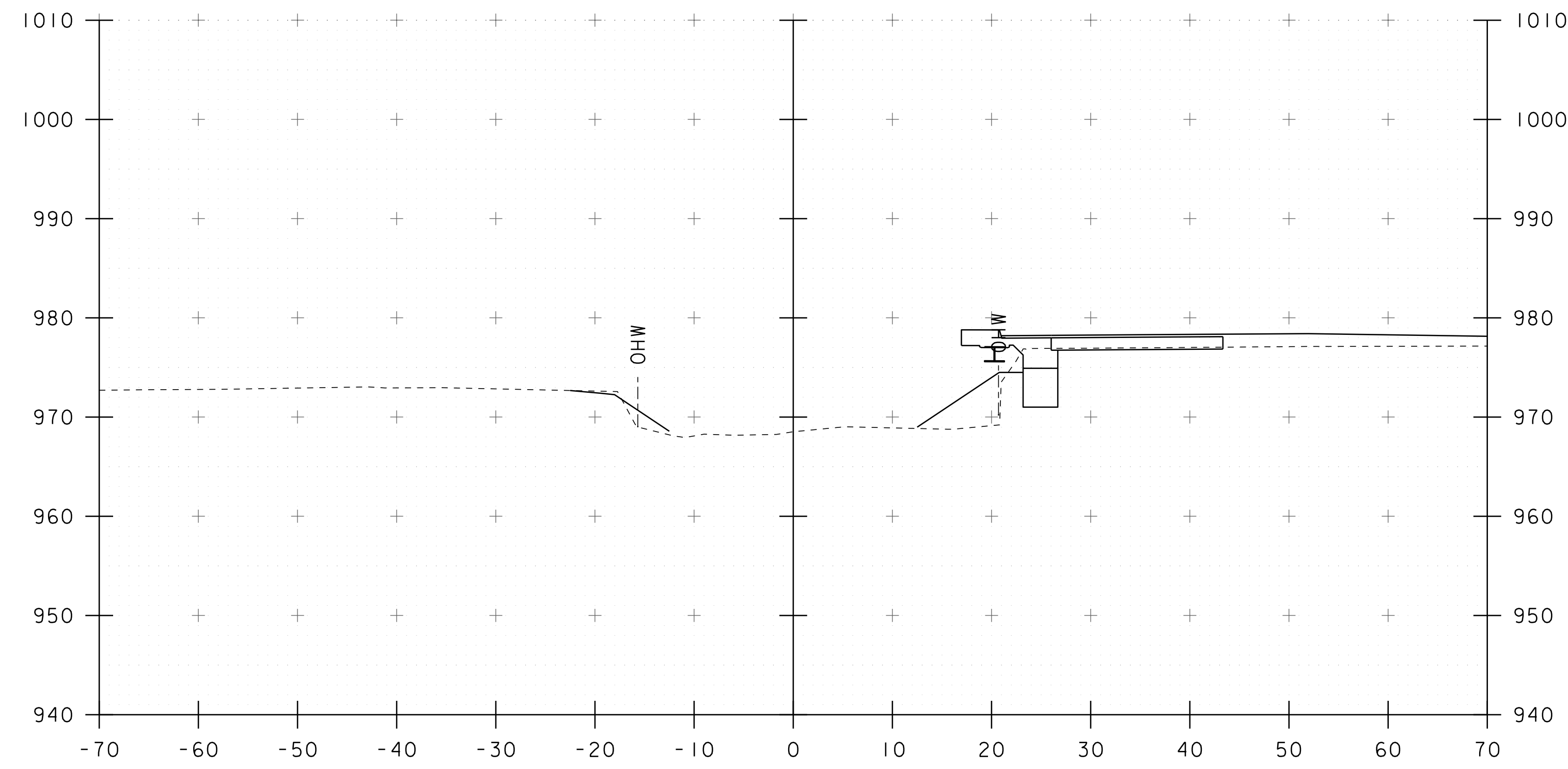
50+20

STA. 50+00 TO STA. 50+30

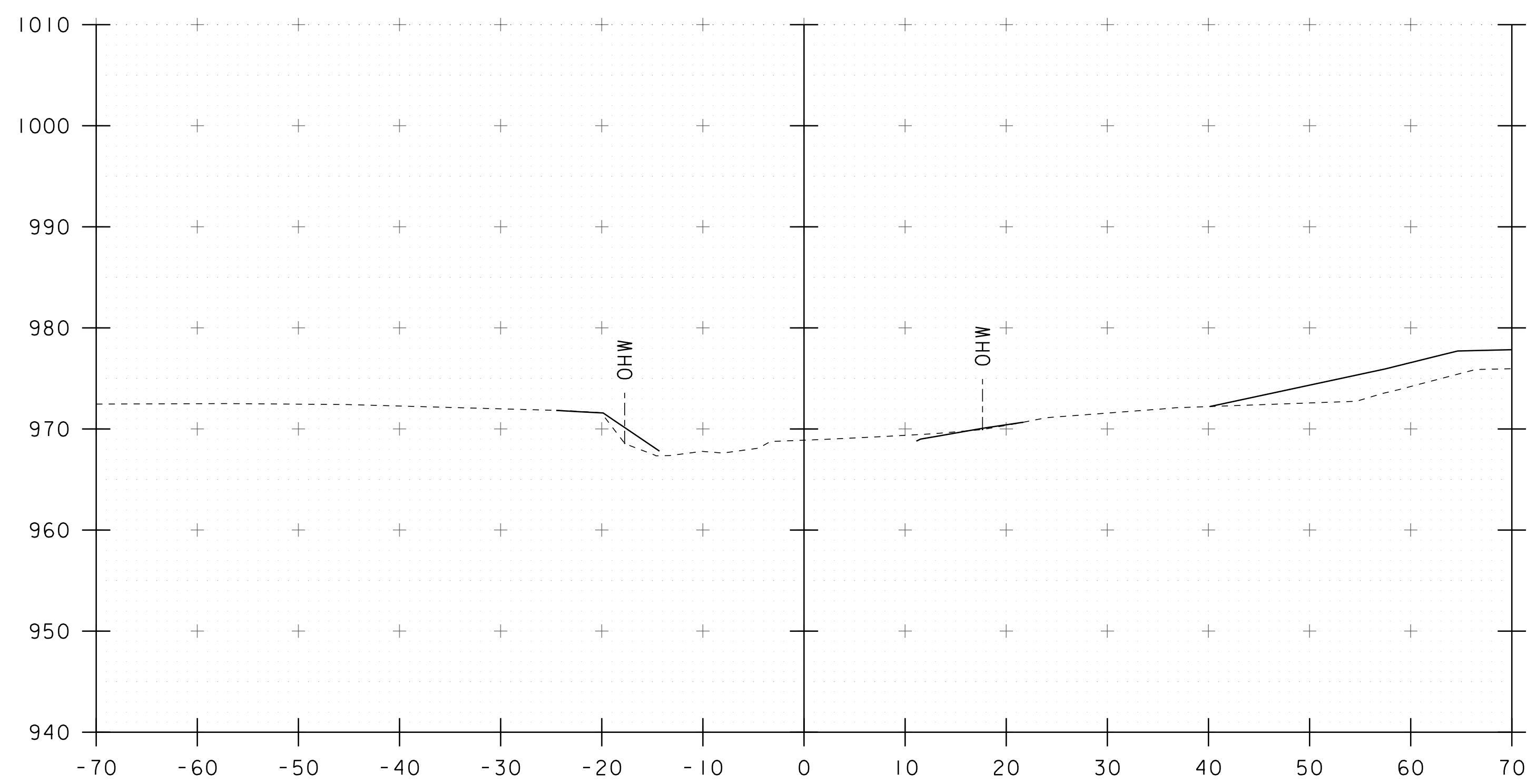
PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
CHANNEL CROSS SECTIONS (1)	SHEET 17 OF 20



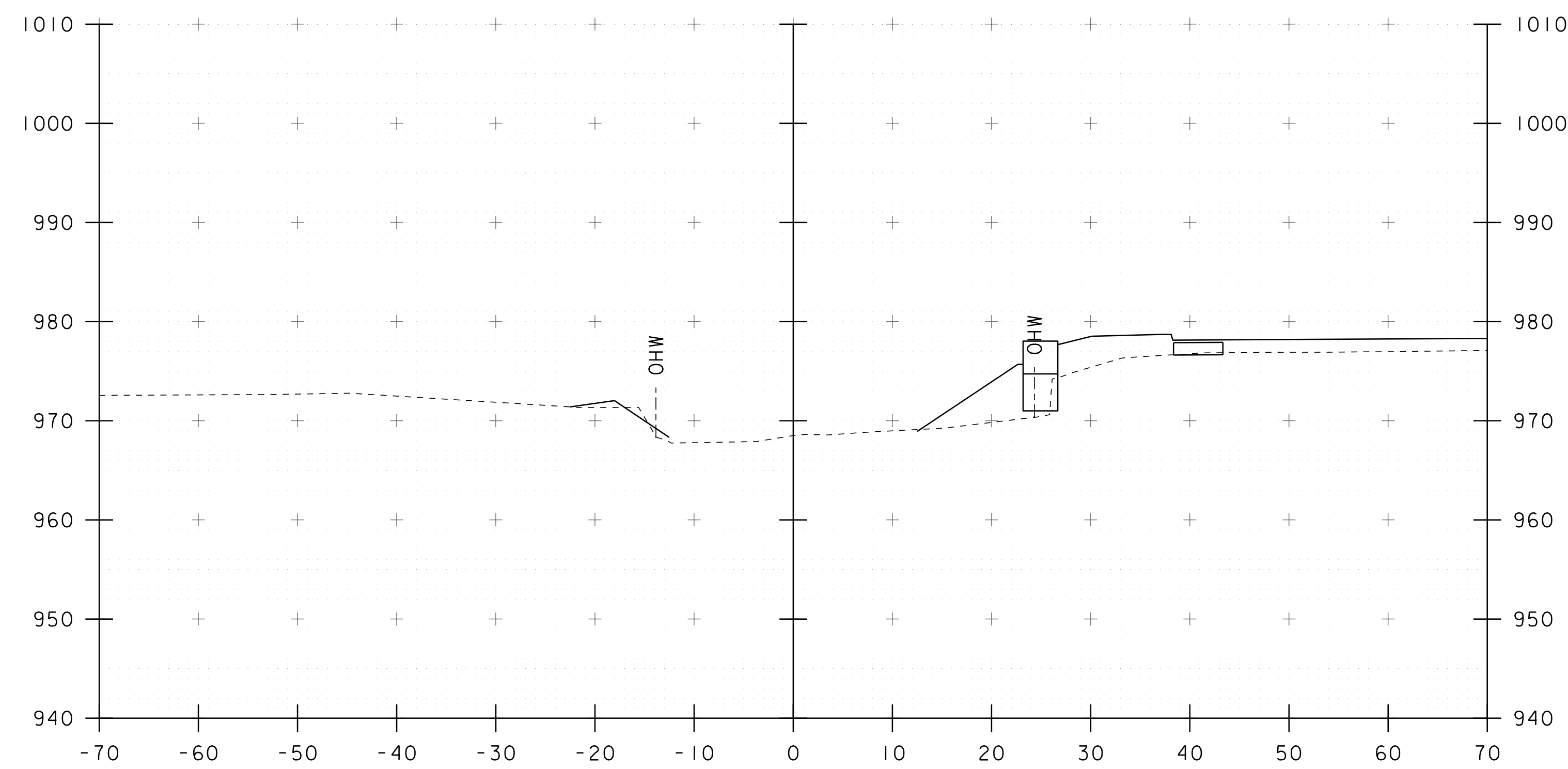
50+50



50+70



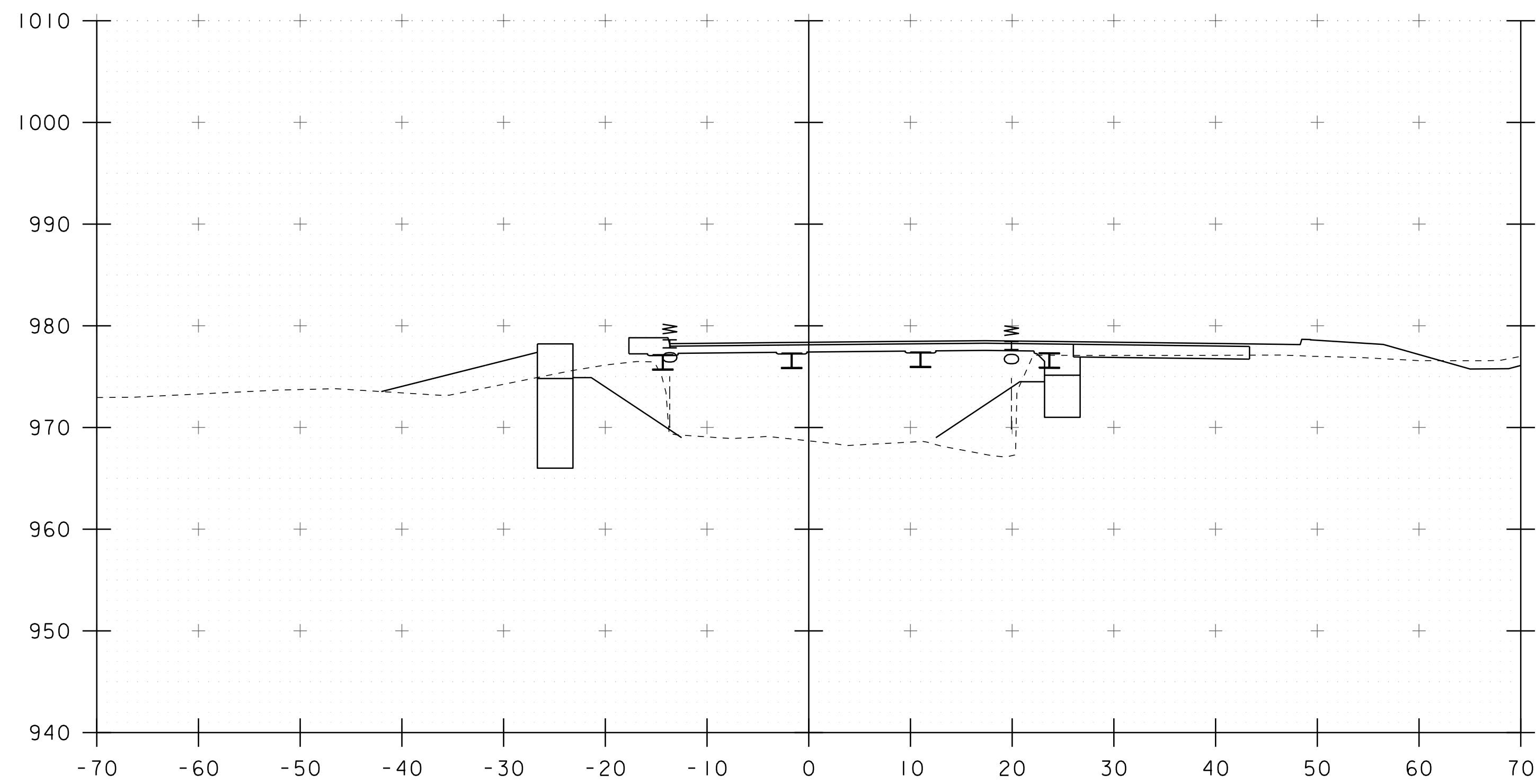
50+40



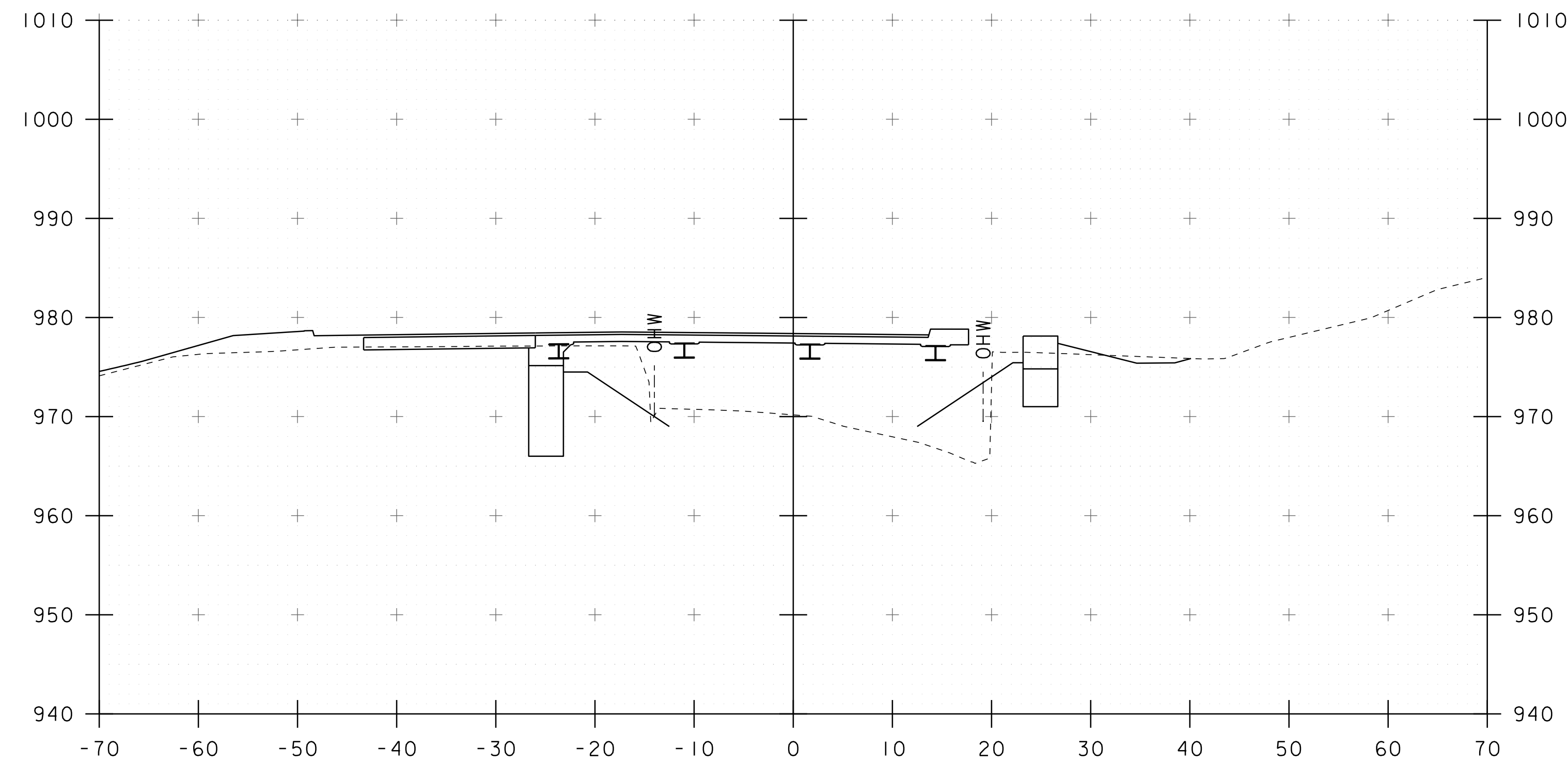
50+60

STA. 50+40 TO STA. 50+70

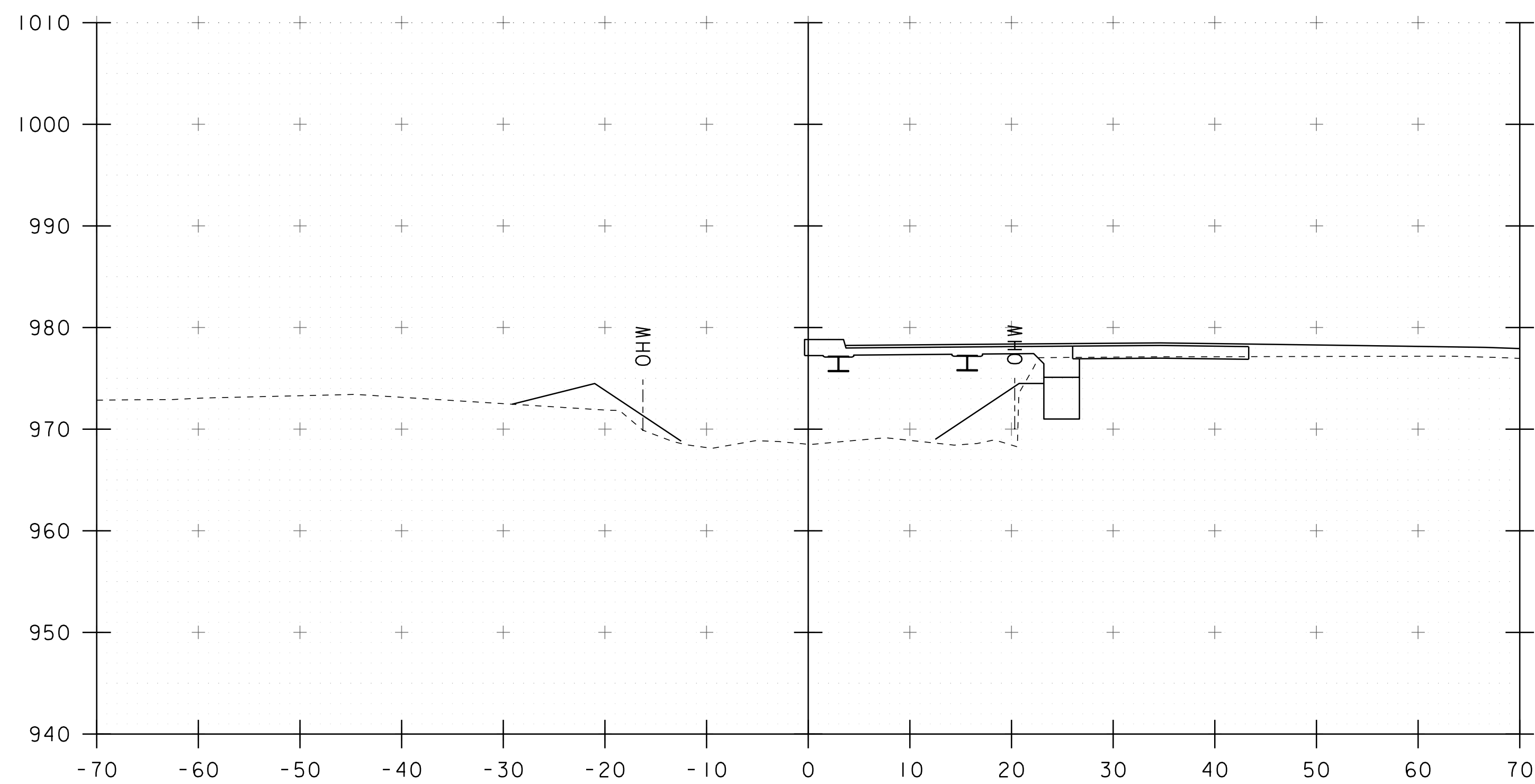
PROJECT NAME: LOWELL	PLOT DATE: 02-MAR-2020
PROJECT NUMBER: BF 029-2 (14)	DRAWN BY: G. ROY
FILE NAME: sl2b592xs.dgn	DESIGNED BY: S. COLEY
PROJECT LEADER: C. COTA	CHECKED BY: C. BURRALL
CHANNEL CROSS SECTIONS (2)	SHEET 18 OF 20



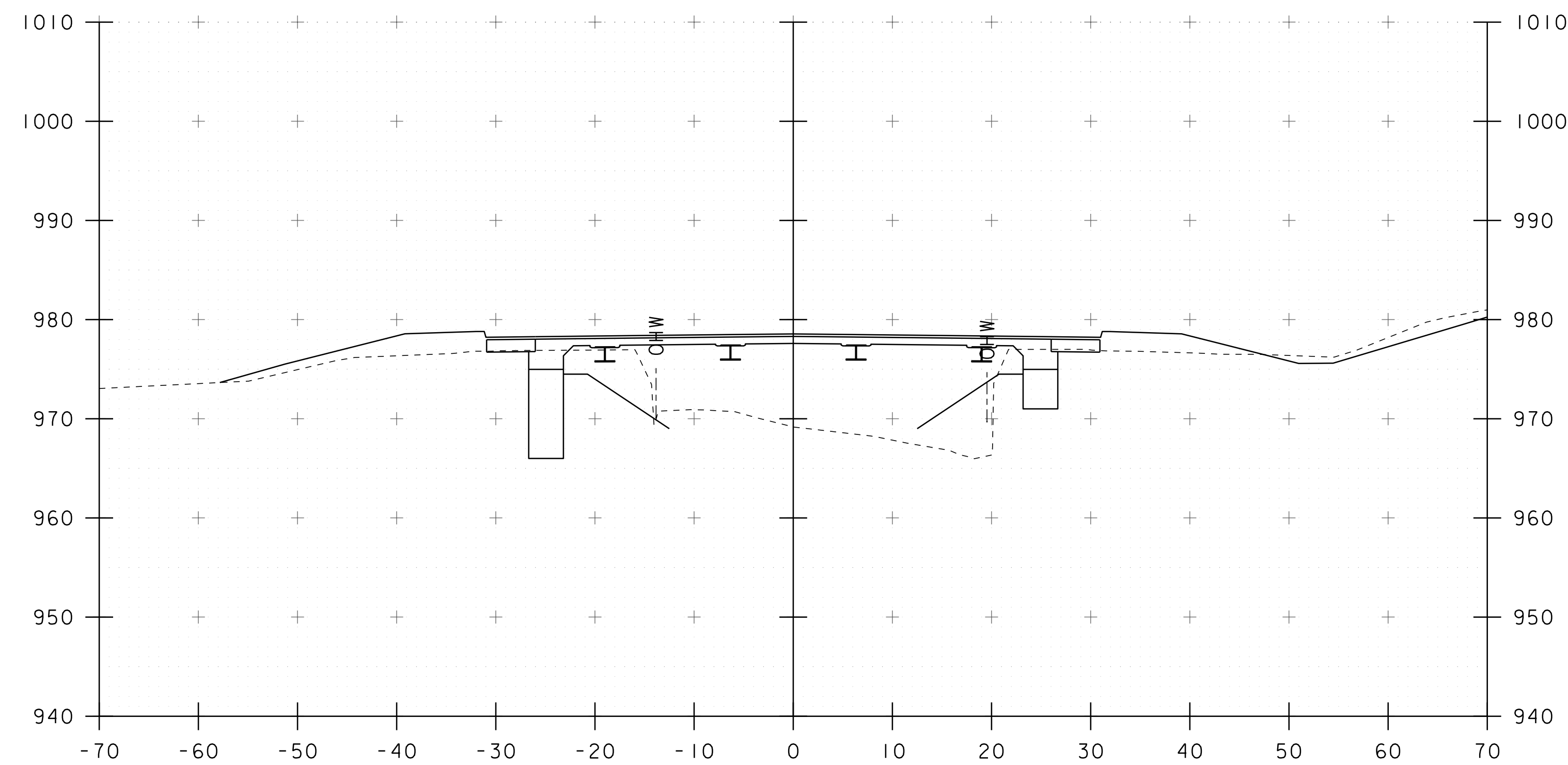
50+90



51+10



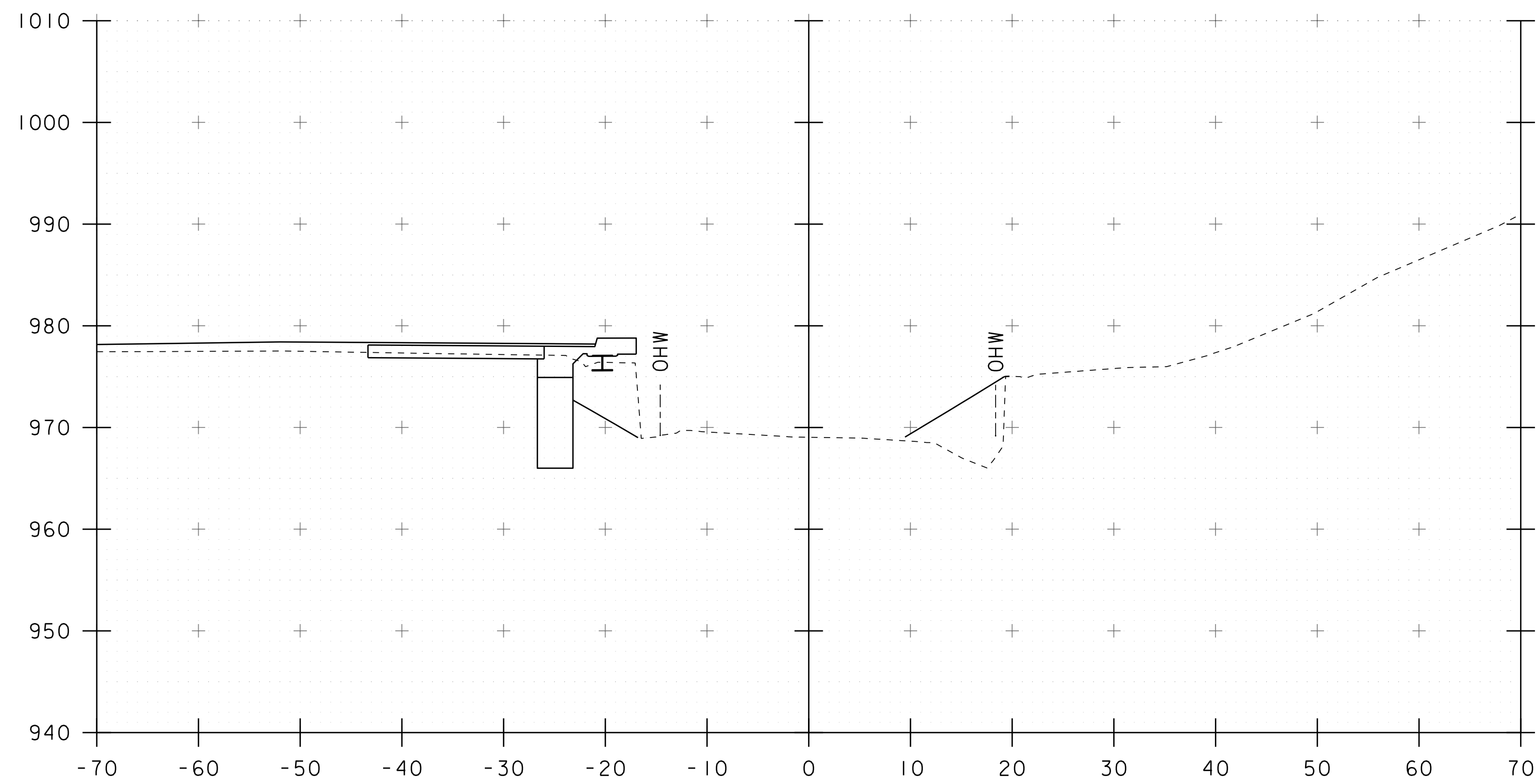
50+80



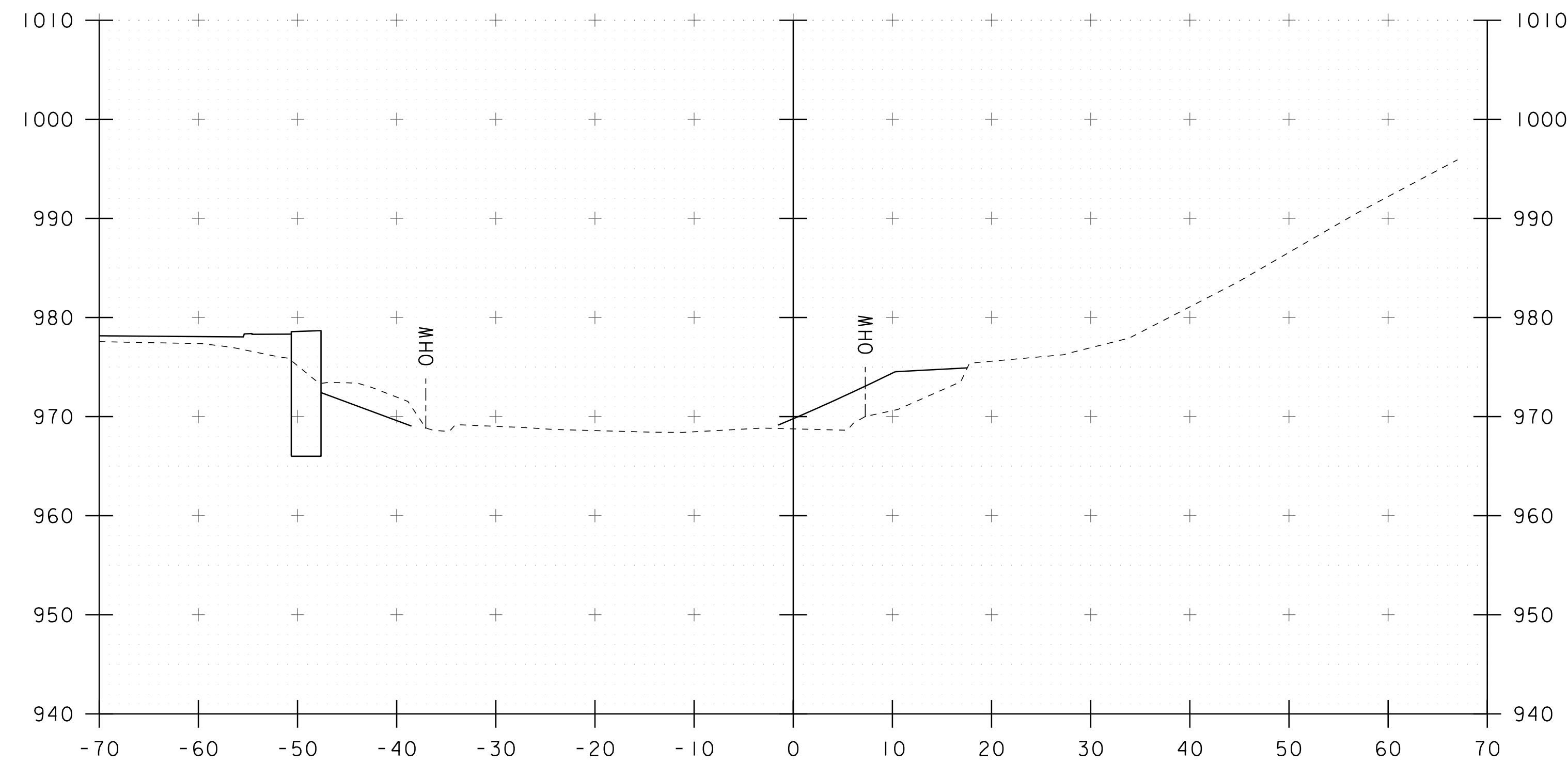
51+00

STA. 50+80 TO STA. 51+10

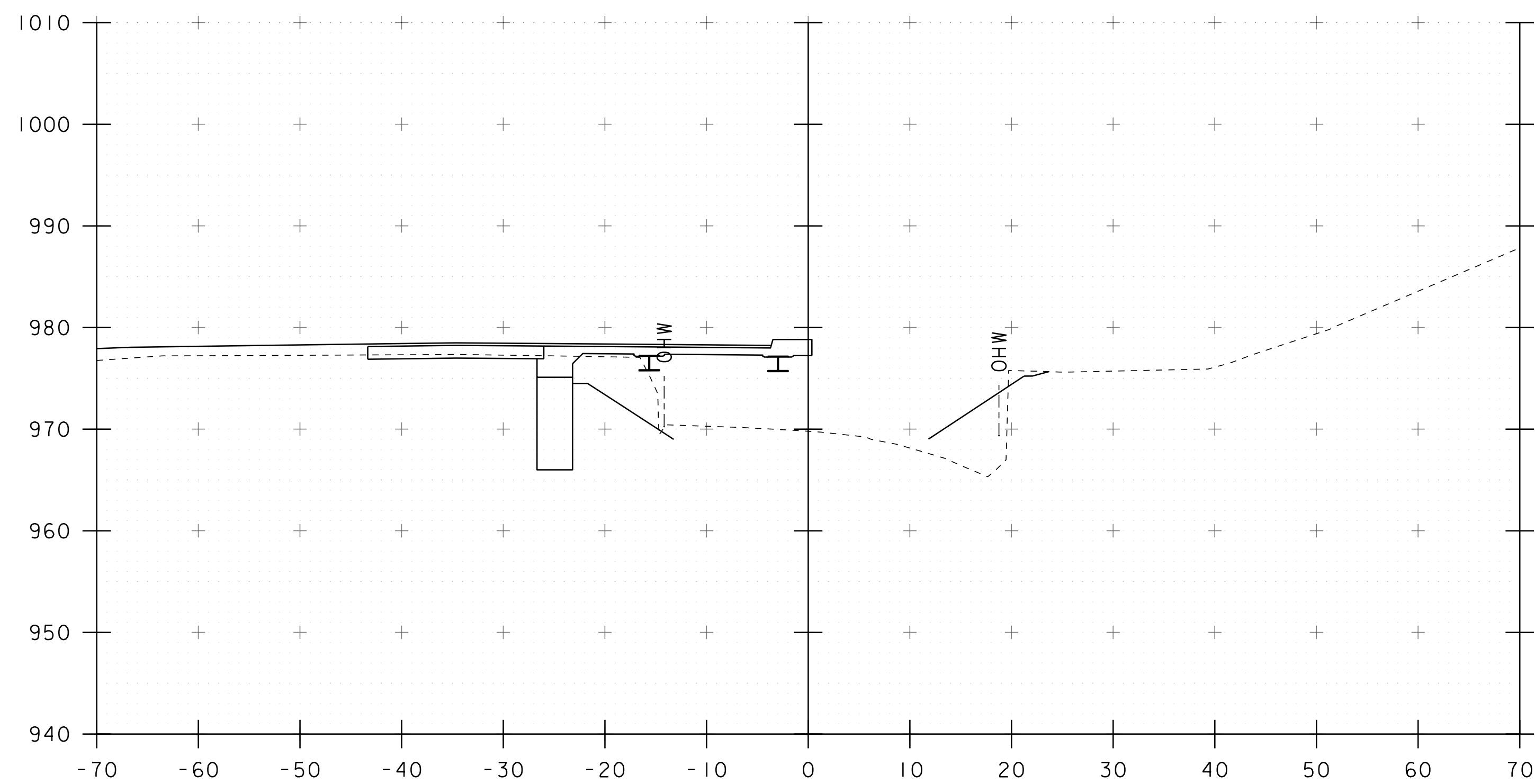
PROJECT NAME: LOWELL	PLOT DATE: 02-MAR-2020
PROJECT NUMBER: BF 029-2 (14)	DRAWN BY: G. ROY
FILE NAME: sl2b592xs.dgn	CHECKED BY: C. BURRALL
PROJECT LEADER: C. COTA	SHEET 19 OF 20
DESIGNED BY: S. COLEY	
CHANNEL CROSS SECTIONS (3)	



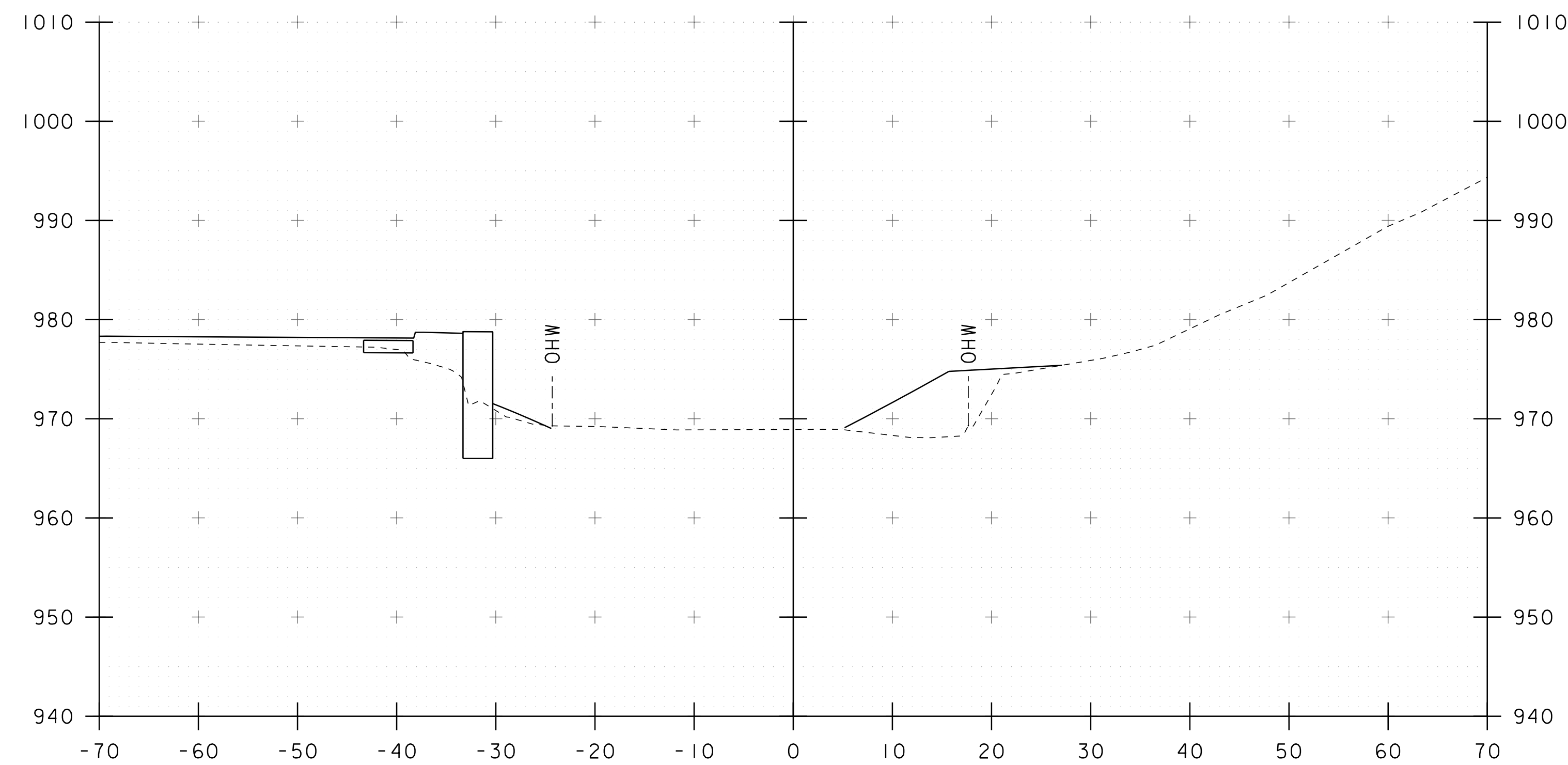
51+30



51+50



51+20



51+40

STA. 51+20 TO STA. 51+50

PROJECT NAME: LOWELL	
PROJECT NUMBER: BF 029-2 (14)	
FILE NAME: sl2b592xs.dgn	PLOT DATE: 02-MAR-2020
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: S. COLEY	CHECKED BY: C. BURRALL
CHANNEL CROSS SECTIONS (4)	SHEET 20 OF 20