

**GENERAL NOTES:**

THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH 3R GUIDELINES AS DETAILED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, 2017 EDITION.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

**IRIS ROAD**

TRAFFIC DATA: A.D.T. 2019 = 1990 3.3% COMMERCIAL  
 A.D.T. 20 YEAR FUTURE = 2960 4% COMMERCIAL  
 DESIGN SPEED = 45/55 MPH  
 POSTED SPEED = 45/55 MPH

THE FOLLOWING UTILITIES ARE LOCATED IN OR NEAR THE RIGHT-OF-WAY OF THIS PROJECT.

- |  |   |
|--|---|
| <b>ELECTRICAL:</b><br>CONSUMERS POWER<br>(248) 877-7744  | <b>GAS:</b><br>DTE ENERGY<br>609 BJORNSON ROAD<br>BIG RAPIDS, MICHIGAN 49307<br>LARRY BOURKE: 231-592-3244                  |
| <b>TELEPHONE:</b><br>FRONTIER COMMUNICATIONS<br>860 TERRACE STREET<br>MUSKEGON, MICHIGAN 49440<br>CINDY WHITEMAN: 231-726-0290 | <b>CHARTER COMMUNICATIONS</b><br>590 S. PERE MARQUETTE HWY.,<br>LUDINGTON, MICHIGAN 49431<br>HAYLEY SEIDER 906-771-3116     |
| <b>FIBER OPTIC:</b><br>CHARTER COMMUNICATIONS<br>(800) 778-9140  | <b>OXYCHEM LUDINGTON</b><br>SOUTH MADISON<br>LUDINGTON, MICHIGAN 49431<br>BRINE LINE DEPARTMENT<br>HOLLY GOULD 231-794-8491 |
| <b>FIBER OPTIC:</b><br>MERRIT NETWORK<br>(734) 527-5729  |   |

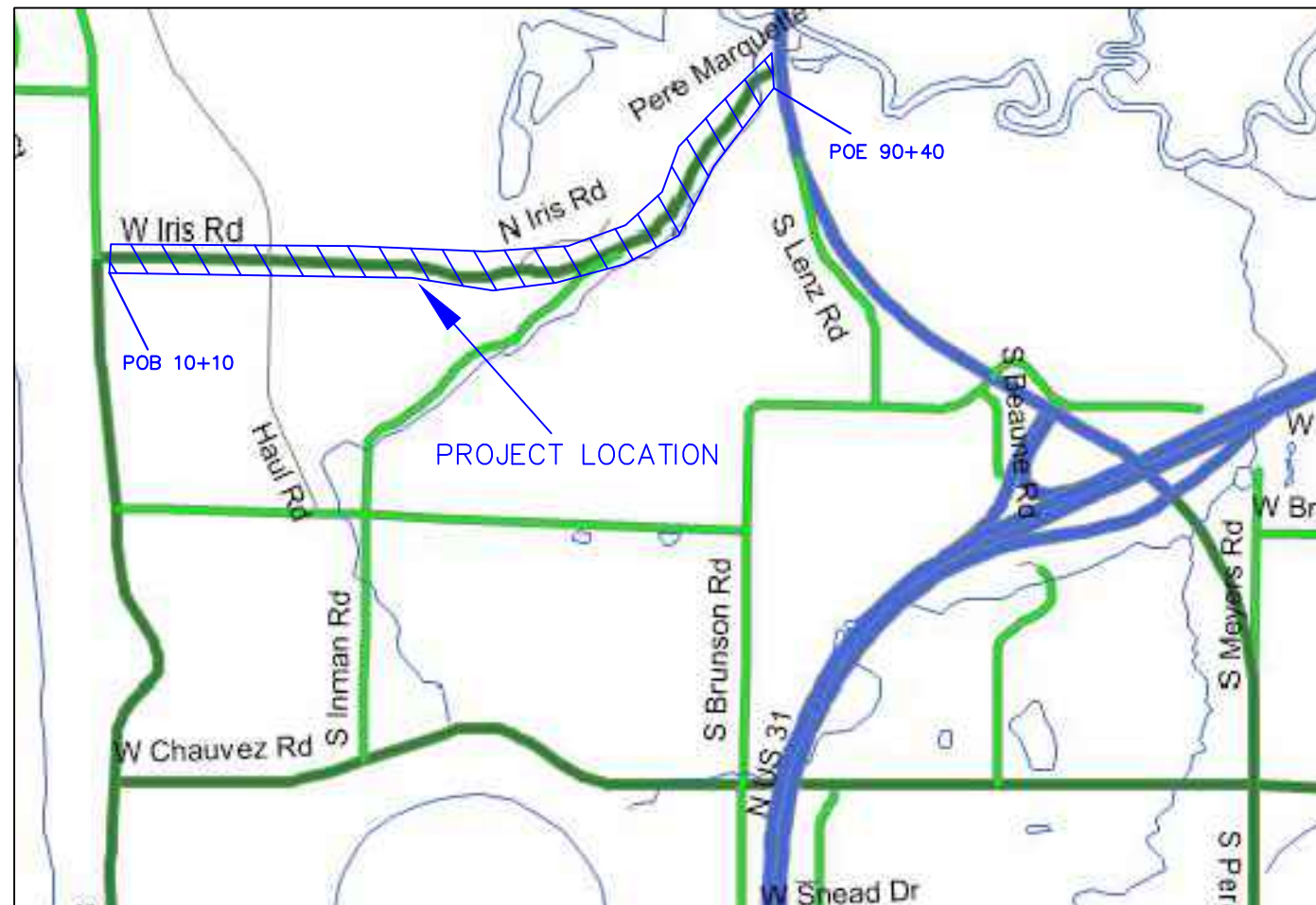
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 or 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE MISS DIG ALERT SYSTEM.

# THE MASON COUNTY ROAD COMMISSION

PLAN AND PROFILE OF THE PROPOSED  
 RECONSTRUCTION OF IRIS ROAD  
 Pere Marquette Highway to S. Lakeshore Drive  
 Pere Marquette Charter Township, Mason County, Michigan



NORTH



STATE OF MICHIGAN

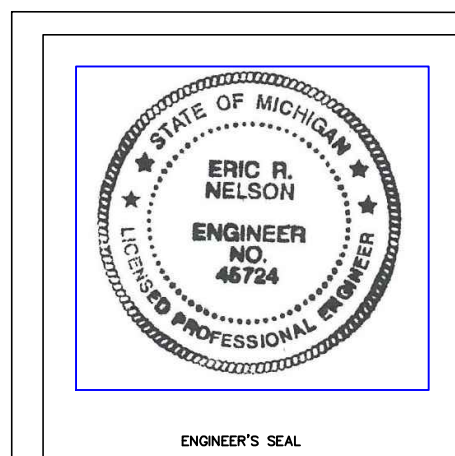
THE FOLLOWING ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REFERENCED STANDARD PLANS  
 STANDARD PLANS ARE NOT INCLUDED IN THE PROPOSAL

NUMBER	DESCRIPTION
R-11-E	MONUMENT BOXES
R-29-I	DRIVEWAY OPENINGS, APPROACHES & CONCRETE SIDEWALKS
R-80-E	GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS
R-82-D	BEDDING AND FILLING AROUND PIPE CULVERTS
R-83-C	UTILITY TRENCHES
R-96-E	SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
R-100-H	SEEDING AND TREE PLANTING

\* SPECIAL DETAILS WILL BE INCLUDED IN THE CONSTRUCTION PLANS

**PLAN INDEX**

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	EXISTING TYPICAL CROSS SECTIONS
3	PROPOSED TYPICAL CROSS SECTIONS
4	STANDARD NOTES AND ADDITIONAL DETAILS & DETOUR
5	IRIS ROAD P.O.B. 10+10 TO 35+50 PLAN
6	IRIS ROAD 35+50 TO 62+00 PLAN
7	IRIS ROAD 62+00 TO 74+50 PLAN
8	IRIS ROAD 74+50 TO 84+50 PLAN
9	IRIS ROAD 84+50 TO 90+40 P.O.E. PLAN
10 - 49	IRIS ROAD 10+50 TO 90+00 EXISTING CROSS-SECTIONS



510 E. State Street  
 Scottville Michigan 49454  
 Phone (231) 757-2882  
 Fax (231) 757-2862

PREPARED UNDER THE SUPERVISION OF:

*Eric R. Nelson*

ERIC R. NELSON, P.E.  
 REGISTERED PROFESSIONAL ENGINEER

45724  
 REGISTRATION NUMBER

**IRIS ROAD RECONSTRUCTION**

1.52 MILES OF HMA CRUSHING & SHAPING, MODIFIED, TRENCHING, DITCHING, CULVERTS, AGGREGATE BASE, HMA 13A, RESTORATION AND RELATED ITEMS OF WORK

REV.	DESCRIPTION	BY	DATE

JOB NAME: Iris Road  
 LOCATION: PM Highway to S. Lakeshore Dr.  
 PM Township Township  
 Mason County, Michigan

DRAWN BY: ERN  
 CHECKED BY: ERN

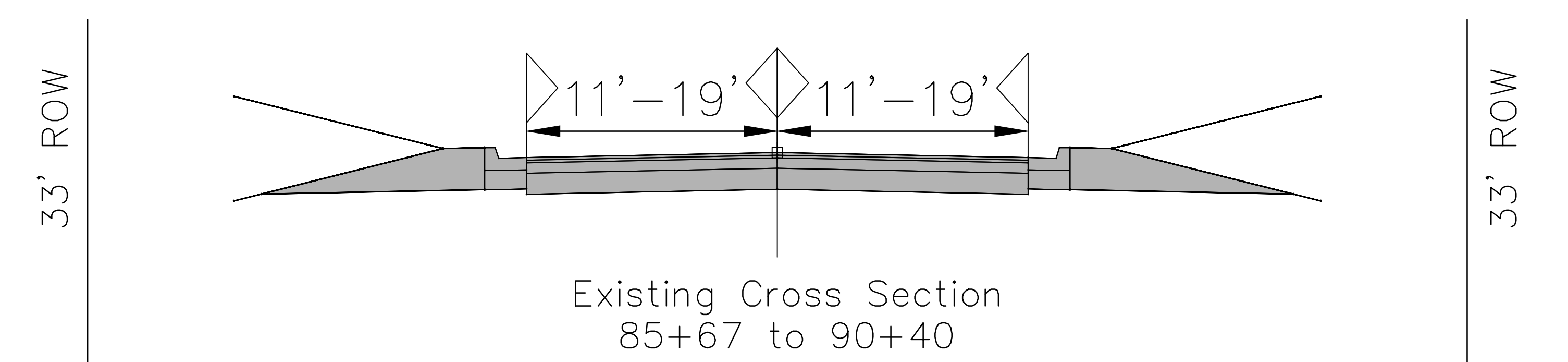
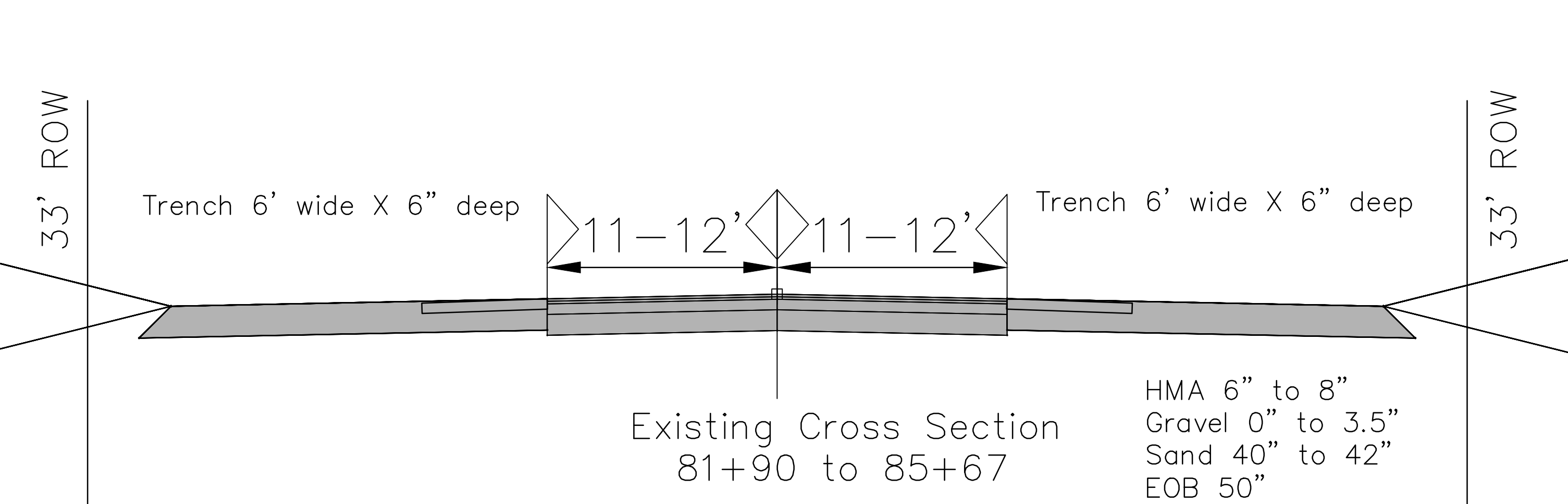
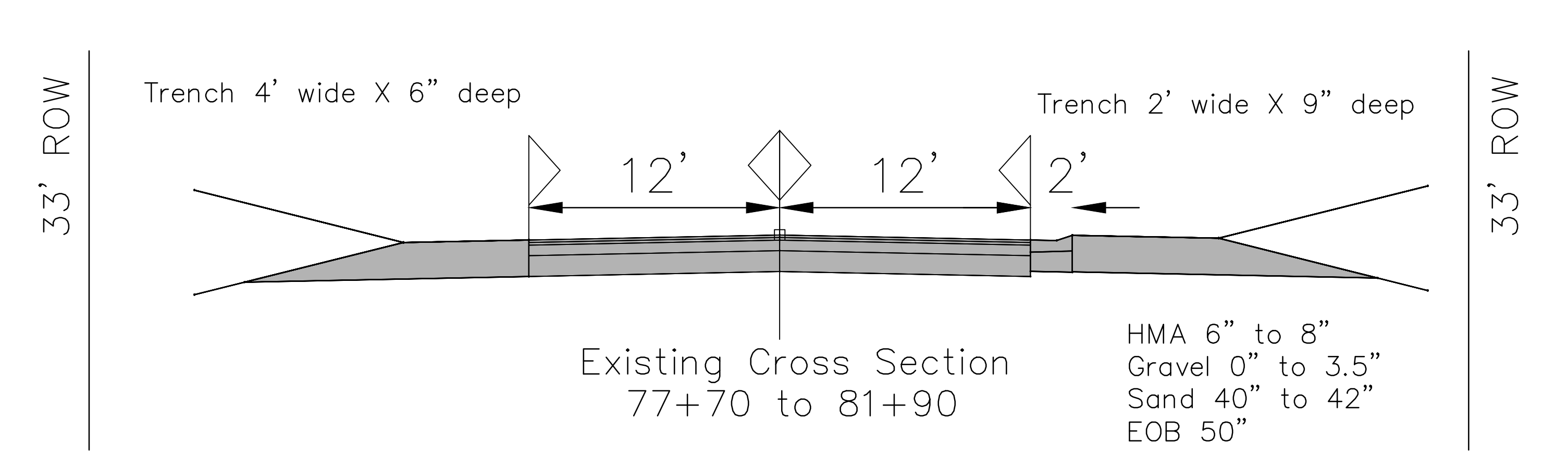
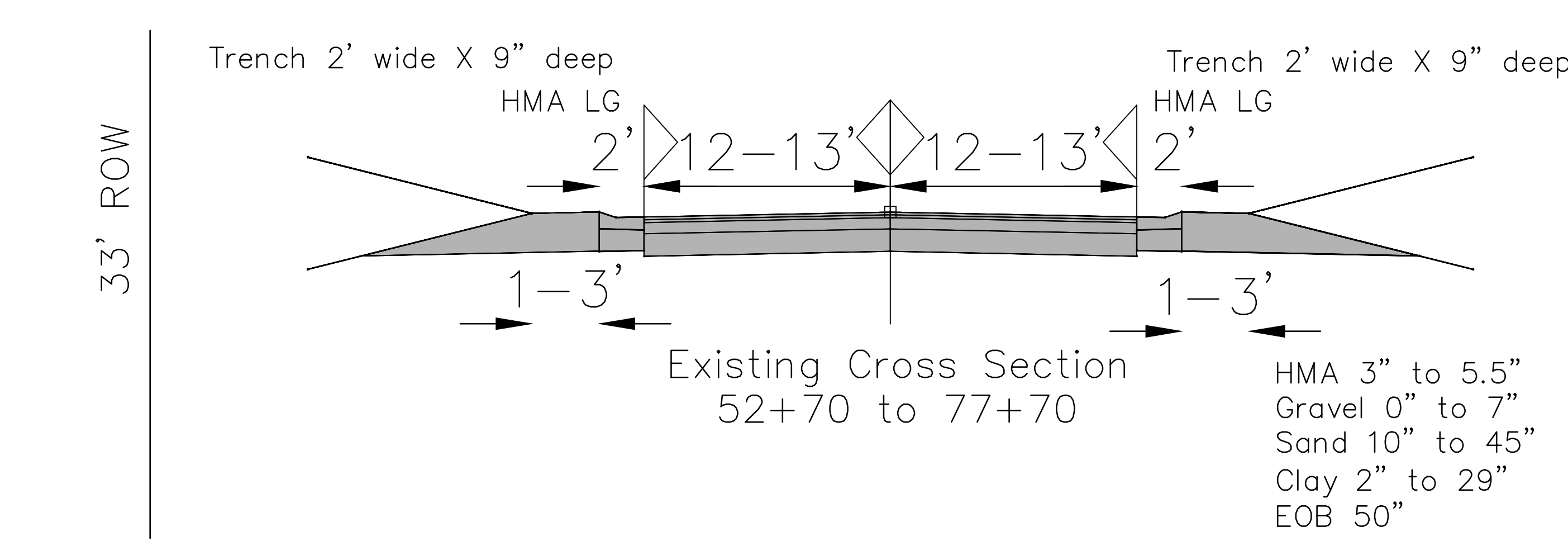
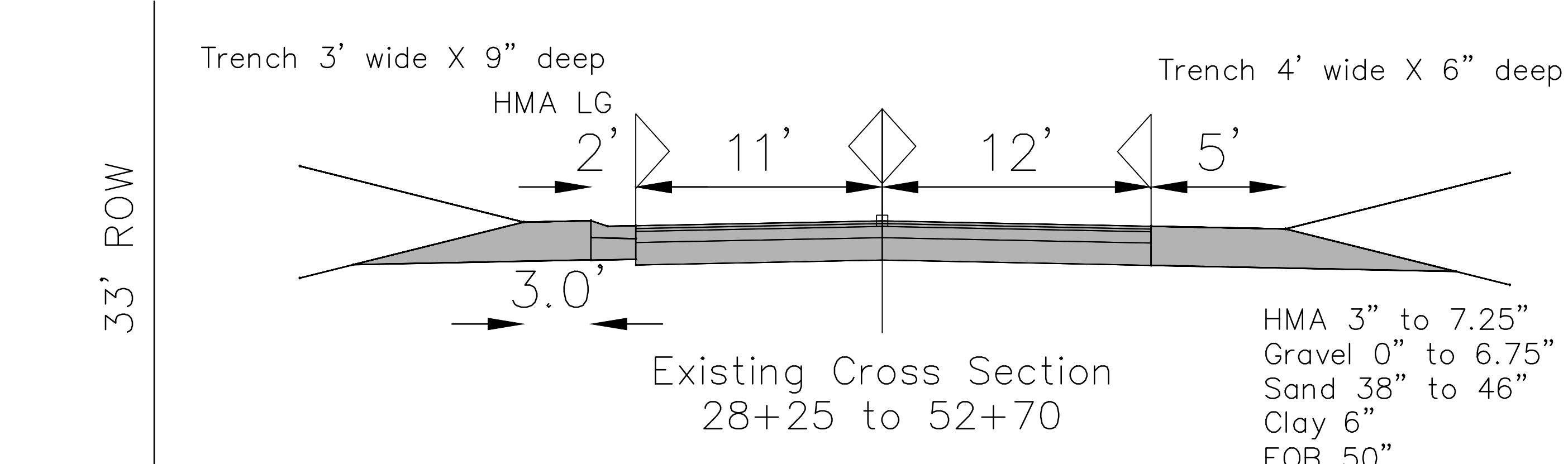
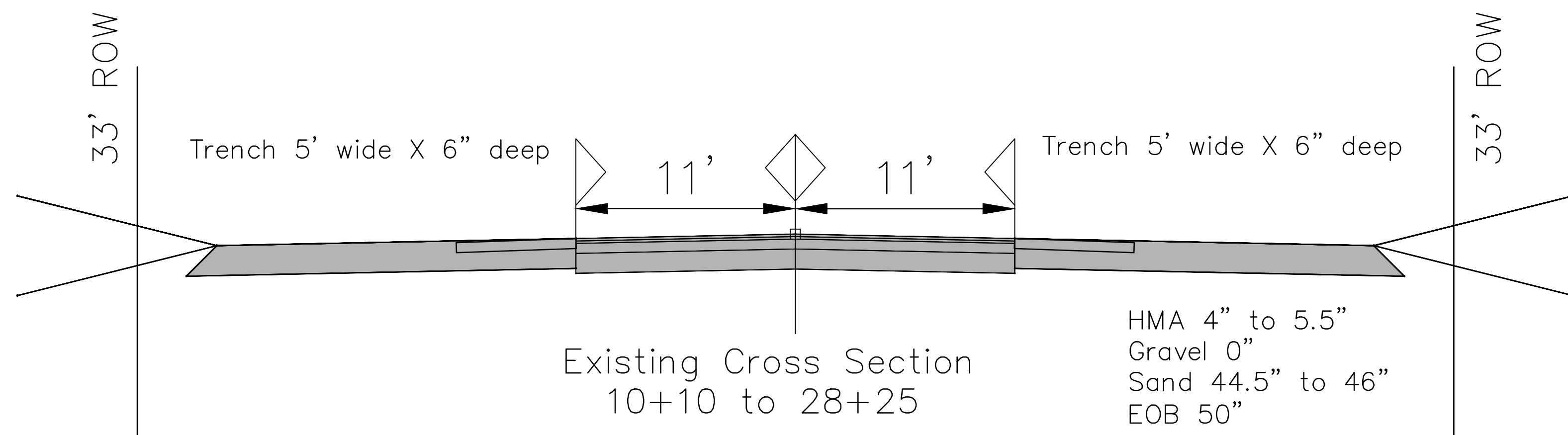
SCALE: NOT TO SCALE  
 DATE: February 27, 2024

DESCRIPTION: 1.52 Miles Road Rehabilitation 3R

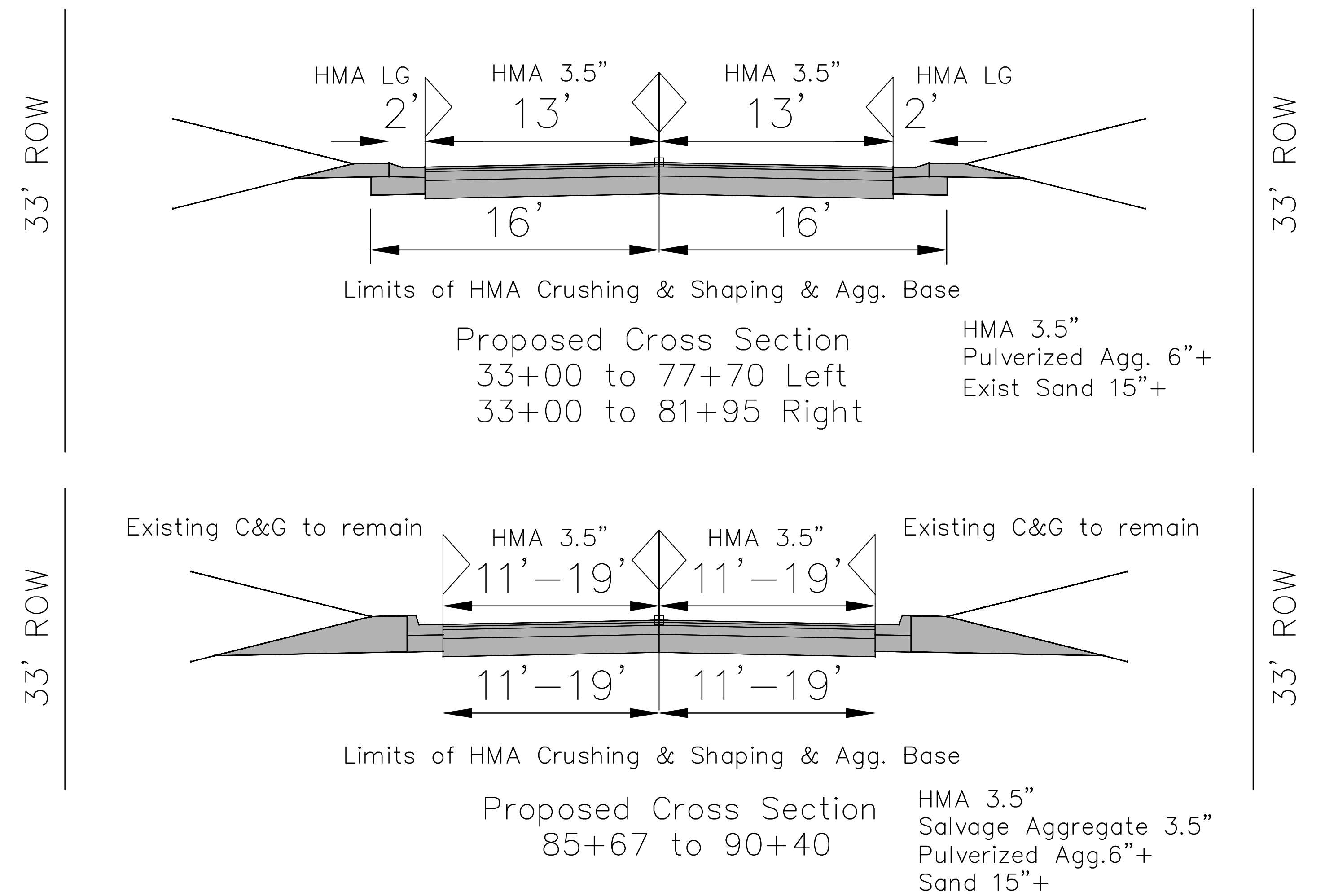
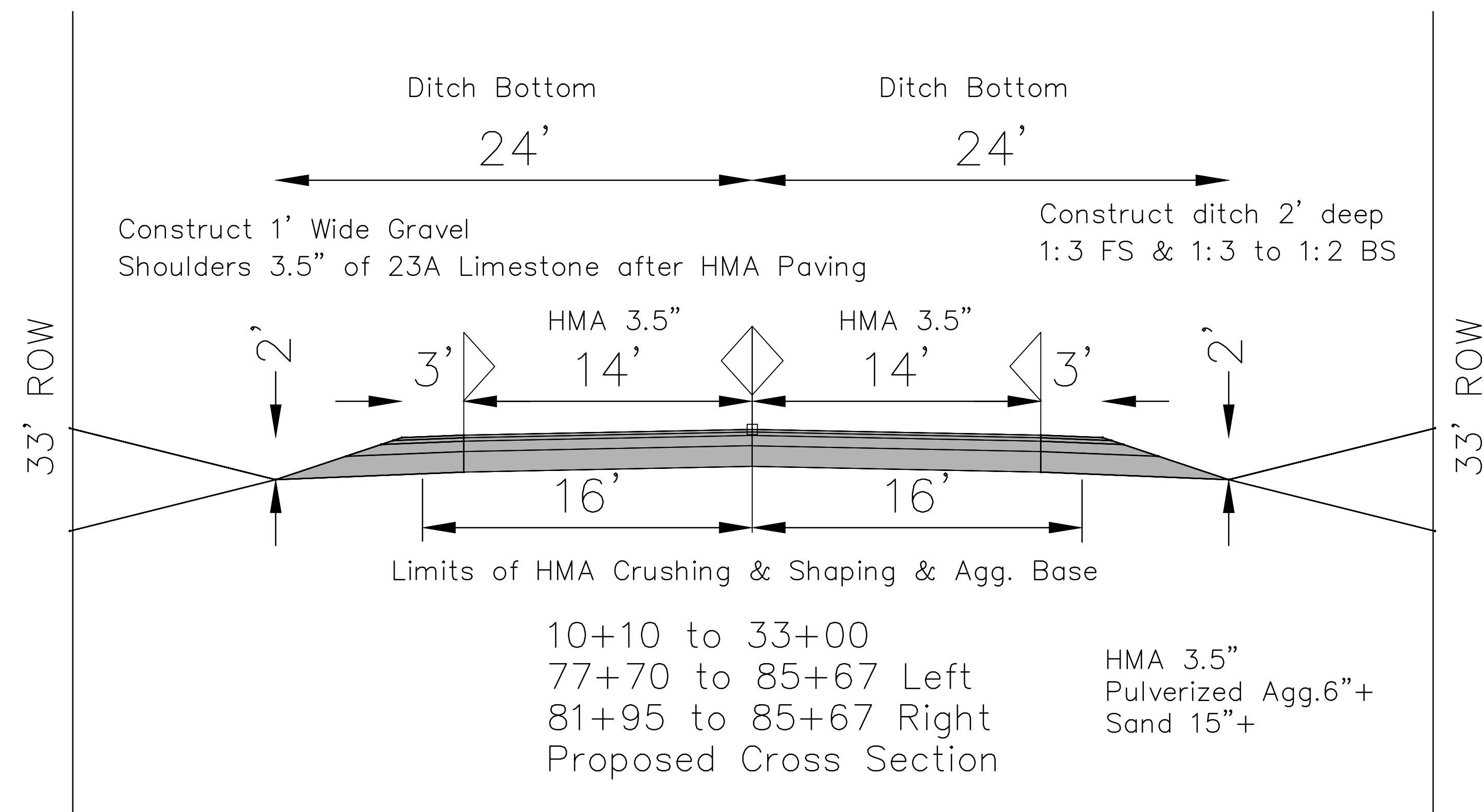
JOB NUMBER:  
CONTROL SECTION:

IRIS ROAD

S:\CHALLENGE\2022\Projects\1818.Rd. PM Highway to Lakeshore\CADD\1818 - DESIGN\2-27-2024.dwg - Existing Typical Section - 2/28/2024 9:53:48 AM Eric



S:\CHALLENGE\2022 Project\1115.Rd - PM Highway to Lakeshore\CADD\1115 - DESIGN\2-27-2024.dwg - Proposed Typical Section - 2/28/2024 9:52:34 AM Eric



HMA APPLICATION TABLE				
HMA LEVELING	HMA MIXTURE	APPLICATION RATE	LIQUID TYPE	REMARKS
HMA LEVELING	HMA, 13A	220# / SYD	PG 58-28	LEVELING
HMA SURFACE	HMA, 13A	165# / SYD	PG 58-28	SURFACE
HMA, APPROACH	HMA, 13A	250# / SYD	PG 58-28	DRIVEWAYS
HMA, APPROACH	HMA, 13A	385# / SYD (2 LIFTS)	PG 58-28	ROAD APP.
THE BOND COAT SHALL BE AS SPECIFIED IN THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. APPLICATION RATE SHALL BE 0.05 – 0.15 GALLON PER SQUARE YARD ON EXISTING OR BETWEEN COURSES. PAYMENT IS INCLUDED IN APPLICABLE HMA ITEMS.				

# GENERAL NOTES

1. ALL DISTURBED AREAS ARE TO BE TOPSOILED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. MATERIAL USED FOR TOPSOIL SURFACE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT ON THE PROJECT. AREAS THAT ARE TOPSOILED ARE TO BE SEEDED WITH SEEDING MIXTURE, TDS, AS DIRECTED BY THE ENGINEER, AT THE RATE OF 220 LBS/ACRE, THEN FERTILIZED WITH FERTILIZER, CHEMICAL NUTRIENT CL A, AT THE RATE OF 228 LBS/ACRE NUTIRENT, THEN HYDROMULCHED WITH TACKIFIER AT THE RATE OF 1800 #/ACRE OR THE RATE SPECIFIED BY THE MANUFACTURER. PAID FOR AS SLOPE RESTORATION, A. SLOPE RESTORATION B ON ALL DITCH BOTTOMS AND SLOPES 3:1 OR GREATER.
2. THE CONTRACTOR SHALL FURNISH AND MAINTAIN DURING CONSTRUCTION THE PLANNED DETOUR ROUTE, ALL BARRICADES AND SIGNING DETAILED ON THE PLANS AND SPECIFIED IN THE PROPOSAL.
3. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE PLANNED DETOUR ROUTE WILL REMAIN IN USE UNTIL PROJECT IS COMPLETED.
4. A HMA BOND COAT SHALL BE PLACED BETWEEN EACH LAYER OF HMA MATERIAL. THIS SHALL INCLUDE THE VERTICAL EDGES OF THE EXISTING PAVEMENT WHEN CUT. THE UNIFORM RATE OF APPLICATION SHALL BE APPROVED BY THE ENGINEER. THIS IS INCLUDED WITH HMA LVSP AND HMA, APPROACH.
5. HMA CRUSHING AND SHAPING, MODIFIED SHALL INCLUDE PULVERIZING THE EXISTING HMA AND UNDERLYING GRAVEL TO FULL DEPTH ESTIMATED AT 9". ALL PULVERIZED AGGREGATE MATERIAL SHALL BE SALVAGED AND USED ON THE PROJECT. THE PULVERIZED MATERIAL SHALL BE USED FOR MAINTENANCE GRAVEL DURING THE PROJECT AS DIRECTED BY THE ENGINEER, PAID AS AGGREGATE BASE, 7" SPECIAL. THE PULVERIZED MATERIAL MAY ALSO BE USED AS AGGREGATE BASE FOR THE PROPOSED ROADWAY. IF THE PULVERIZED MATERIAL BECOMES CONTAMINATED DUE TO CONTRACTORS OPERATIONS, THE MATERIAL WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
6. HMA CRUSHING AND SHAPING, MODIFIED WILL INCLUDE THE PULVERIZING OF ALL HMA MATERIAL REGARDLESS OF THICKNESS AND UNIFORMITY OF THE CROSS SECTION AND AS SPECIFIED IN THE PROPOSAL.
7. ALL EXISTING TRAFFIC CONTROL SIGNS WILL BE REMOVED AS DIRECTED BY THE ENGINEER, BY THE MASON COUNTY ROAD COMMISSION PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE THIS WITH THE MASON COUNTY ROAD COMMISSION.
8. MAILBOXES, PAPER TUBES AND POSTS WITHIN THE PROJECT LIMITS WILL BE MOVED TO A CENTRAL LOCATION AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. MAILBOXES SHALL BE RESET TO ITS PERMANENT POSITION AS APPROVED BY THE POSTMASTER. THIS WORK SHALL BE PAID FOR UNDER THE ITEM OF POST, MAILBOX.
9. EROSION CONTROL, SILT FENCE SHALL BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
10. THE LOCATIONS FOR SUBGRADE UNDERCUTTING, TYPE II WILL BE AS DIRECTED BY THE ENGINEER.
11. HMA APPROACH ON DRIVEWAYS WILL EXTEND TO THE RIGHT OF WAY LINE OR AS DIRECTED BY THE ENGINEER. ALL EXISTING PAVED DRIVES WILL BE SAW CUT AT THE RIGHT OF WAY LINE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SAW CUTTING WILL BE INCLUDED WITH HMA SURFACE AND REM & PAVT, REM. ITEMS OF WORK.
12. MAINTENANCE GRAVEL WILL BE USED TO MAINTAIN LOCAL TRAFFIC AND DRIVEWAY ACCESS TO LOCAL RESIDENTS AS SPECIFIED IN THE PROPOSAL.
13. IT IS THE CONTRACTORS RESPONSIBILITY TO INFORM LOCAL RESIDENTS OF THEIR WORK SCHEDULE AND PROVIDE THEM INGRESS AND EGRESS TO AND FROM THEIR HOMES DURING THE COURSE OF CONSTRUCTION. NO LOCAL RESIDENT WILL BE DENIED VEHICLE ACCESS TO THEIR HOMES AT THE END OF EACH DAYS WORK.
14. IT IS THE CONTRACTORS RESPONSIBLTY TO OBTAIN SIGNED AGREEMENTS FROM THE PROPERTY OWNERS FOR THE USE OF THEIR PROPERTY DURING CONSTRUCTION OF THIS PROJECT FOR YARD STORAGE. THE CONTRACTOR SHALL PROVIDE COPIES TO THE ENGINEER AND A SIGNED RELEASE FROM THE PROPERTY OWNERS UPON COMPLETION OF THE PROJECT.
15. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE HIS ACTIVITIES WITH ANY OTHER CONTRACTORS PERFORMING WORK, AS SPECIFIED IN THE PROPOSAL DURING THE CONSTRUCTION OF THIS PROJECT.
16. SOIL BORING LOGS REPRESENT POINT INFORMATION ONLY. PRESENTATION OF THIS INFORMATION IN NO WAY INFERS THAT SUBSURFACE CONDITIONS ARE THE SAME AT OTHER LOCATIONS OTHER THAN AT THEEXACT LOCATION OF THE BORING.
17. THE CONTRACTOR IS TO CONFINE HIS CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS AS DEFINED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
18. ROADWAY GRADING WILL INCLUDE ALL EARTHWORK TO BUILD THE PROPOSED CROSS SECTIONS. THIS WORK INCLUDES; TOPSOIL STRIPPING, ALL EARTHWORK TO RECONSTRUCT DRIVEWAYS, DISPOSAL OF EXCAVATED OR UNSUITABLE MATERIAL, GRADING AND COMPACTING OF EXISTING MATERIAL BELOW THE AGGREGATE BASE LINE. SECTIONS WHERE THE EXISTING SUBBASE MATERIAL MEETS SUBBASE SPECIFICATIONS, THE GRADE WILL BE CUT TO THE TOP OF THE SUBBASE AND THE UNDERLYING MATERIAL MAY BE USED AS SAND SUBBASE. THE ENGINEER WILL DETERMINE WHETHER OR NOT THE EXISTING MATERIAL MEETS SUBBASE REQUIREMENTS. IF THE MATERIAL DOES NOT MEET SUBBASE REQUIREMENTS THE CONTRACTOR SHALL CUT TO THE BOTTOM OF SUBBASE AS CALLED FOR ON THE PLANS AND PLACE 18" OF CLASS II MATERIAL, PAID AS SUBGRADE UNDERCUTTING TYPE II. ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO DO THIS WORK SHALL BE INCLUDED WITH THE PAY ITEM ROADWAY GRADING.
19. HMA APPROACH, SHALL BE USED AS DIRECTED BY THE ENGINEER FOR HMA SPILLWAYS, APPROACHES AND HMA DRIVEWAYS THAT WILL BE PAVED OR REPAVED TO MATCH THE NEW CROSS SECTION.

THE PLACING OF DETOUR SIGNAGE AND MARKING SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES: 2011 EDITION.



DETOUR SIGNING DETAIL

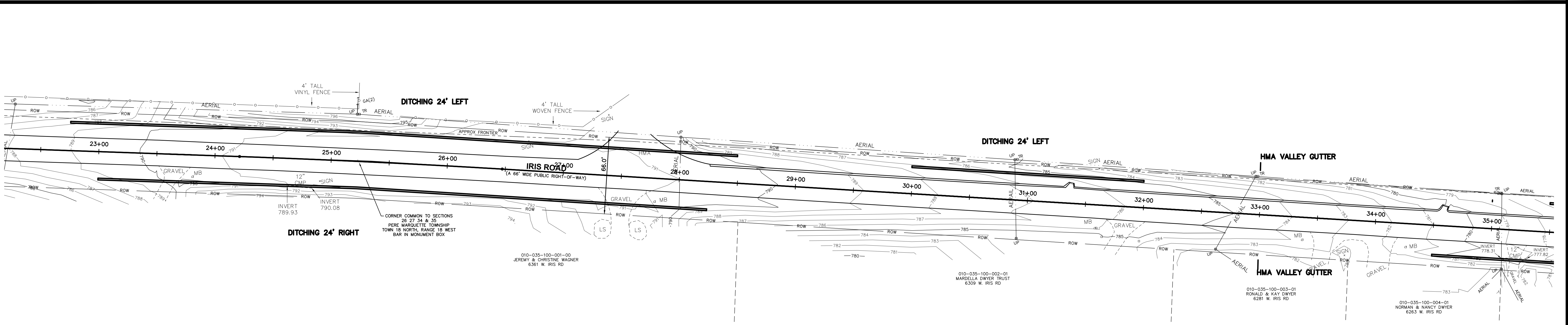
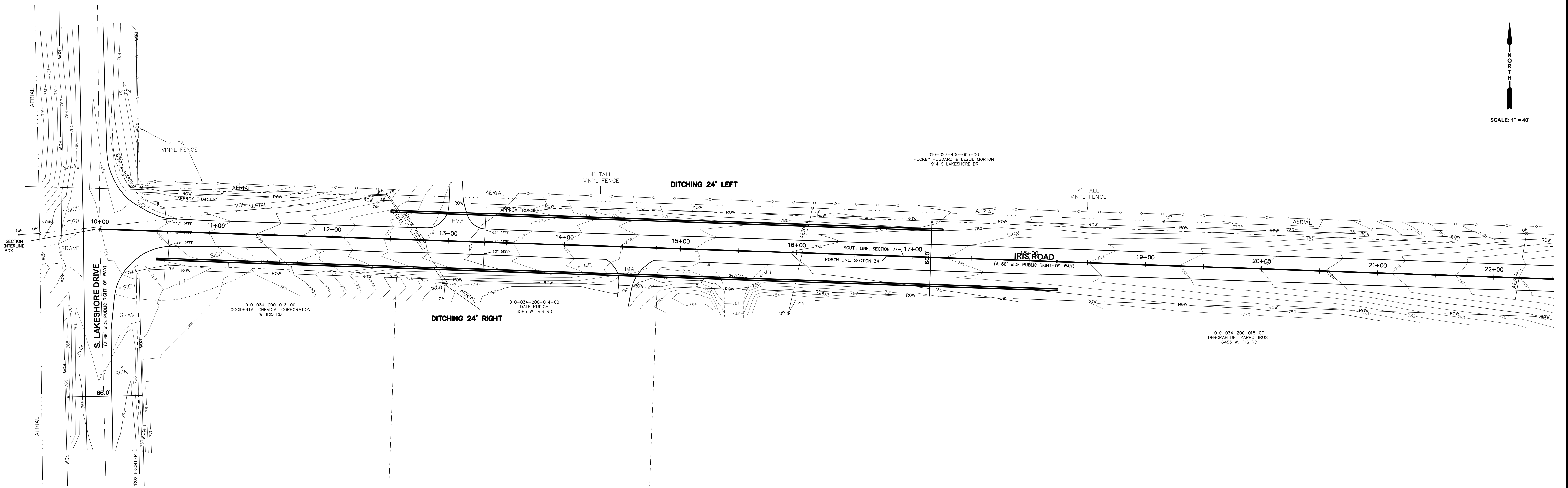
SYM	DESCRIPTION	NAME	SIGN SIZE	QTY.	SFT TOTAL
1	BARRICADE TYPE III			7	
2	ROAD WORK AHEAD	W20-1	48" x 48"	3	48
3	DETOUR AHEAD	W20-2	48" x 48"	3	48
4	ROAD CLOSED TO THRU TRAFFIC	R11-4	60" X 30"	4	50
5	DETOUR →	M4-10R	48" x 18"	1	6
6	DETOUR ←	M4-10L	48" x 18"	1	6
7	DETOUR →	M4-9R	30" x 24"	3	15
8	DETOUR ←	M4-9L	30" x 24"	3	15
9	DETOUR ↑	M4-9S	30" x 24"	10	50
10	END DETOUR	M4-8a	24" x 18"	2	6
11	IRIS ROAD	D3-1*	24" x 12"	25	50
12	PM HIGHWAY TO S. LAKESHORE	D3-1*	24" x 12"	7	14
	TOTAL				308

\* SIGNS PAID FOR AS SIGN, TYPE B, PRISMATIC, FURN/OPER

REV.	DESCRIPTION	BY	DATE
JOB NAME: Iris Road		DRAWN BY: ERN	CHECKED BY: ERN
LOCATION: PM Highway to S. Lakeshore Dr. PM Township Township Mason County, Michigan		SCALE: NOT TO SCALE	
		DATE: February 27, 2024	
		JOB NUMBER	SHEET
DESCRIPTION: 1.52 Miles Road Rehabilitation 3R			



SCALE: 1" = 40'



- LEGEND**
- SANITARY SEWER (SAN)
  - STORM SEWER (STM)
  - WATERMAIN (WAT)
  - GAS MAIN (GAS)
  - - - UG ELECTRIC (PWR)
  - - - UG TELECOMMUNICATIONS (TELCOM)
  - - - AERIAL UTILITY LINE (AERIAL)
  - FENCE
  - HOT MIX ASPHALT SURFACE (HMA)
  - △ - HYDRANT (HYD)
  - ⊕ - WATER VALVE (WV)
  - - WATER STOP BOX (WSB)
  - - MANHOLE (MH)
  - ⊕ - CATCH BASIN (CB)
  - ⊕ - UTILITY POLE (UP)
  - ⊕ - GUY ANCHOR (GA)
  - - SAN CLEANOUT (CO)
  - - GAS METER (GM)
  - - ELECTRIC METER (EM)
  - - ELECTRIC BOX (EB)
  - - AIR CONDITIONER (AC)
  - ⊕ - YARD LIGHT (YL)
  - ⊕ - LIGHT POLE (LP)
  - ⊕ - LIGHT POLE W/CONC BASE (LPC)
  - ⊕ - TELECOMMUNICATION RISER (TR)
  - - UG TELECOMMUNICATIONS BOX (UTB)
  - - SURVEY IRON (FOUND)
  - - SURVEY IRON (SET)
  - M - MEASURED DIMENSION
  - D - DEEDED DIMENSION
  - P - PLATTED DIMENSION
  - R - RECORDED DIMENSION
  - L - LENGTH
  - R - RADIUS
  - CB - CHORD BEARING
  - C - CHORD DISTANCE
  - LS - LANDSCAPE AREA
  - FF - FINISHED FLOOR
  - △ - FIRE PROT. VALVE (FPV)
  - ⊕ - UG GAS MARKER (UGM)
  - ⊕ - UG TELECOMMUNICATIONS MARKER (UTM)
  - ⊕ - MAILBOX (MB)



Know what's below. Call before you dig.


Utility locations are approximate only. Please contact "Miss Dig" three working days prior to the start of construction for exact locations. (1-800-482-7171)

\* FRONTIER DEPTHS AT ROAD CROSSING PROVIDED BY FRONTIER \*

PLAN REVISIONS

**IRIS ROAD - S. LAKESHORE DRIVE TO PERE MARQUETTE HIGHWAY**

OF PART OF  
SECTIONS 25, 26, 27, 34 & 35, TOWN 18 NORTH, RANGE 18 WEST  
PERE MARQUETTE TOWNSHIP, MASON COUNTY, MICHIGAN

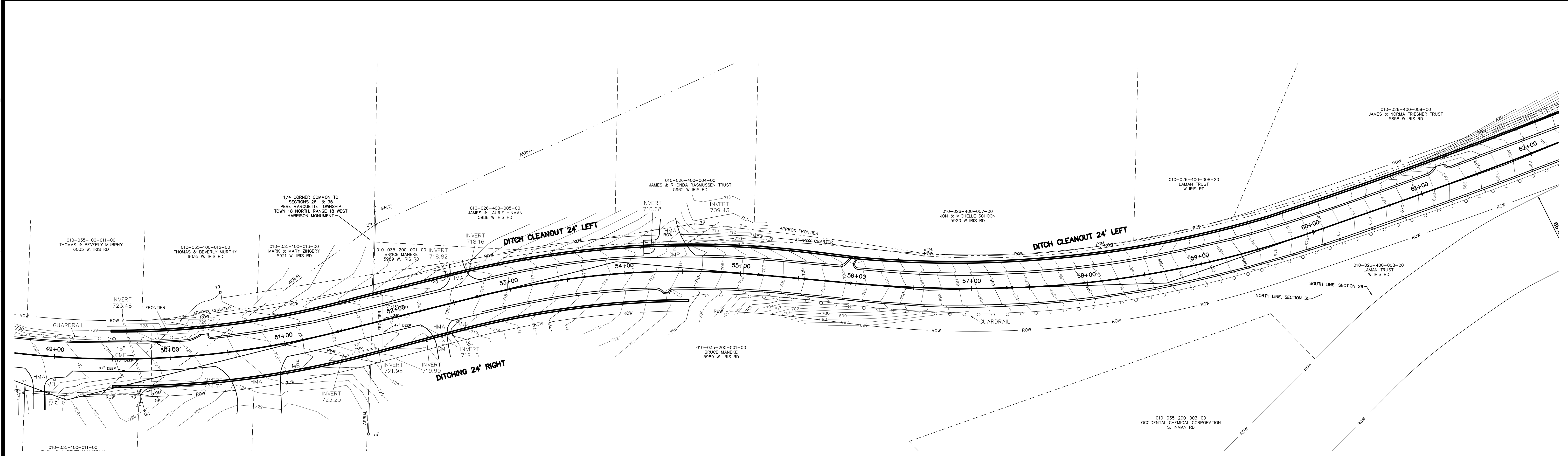
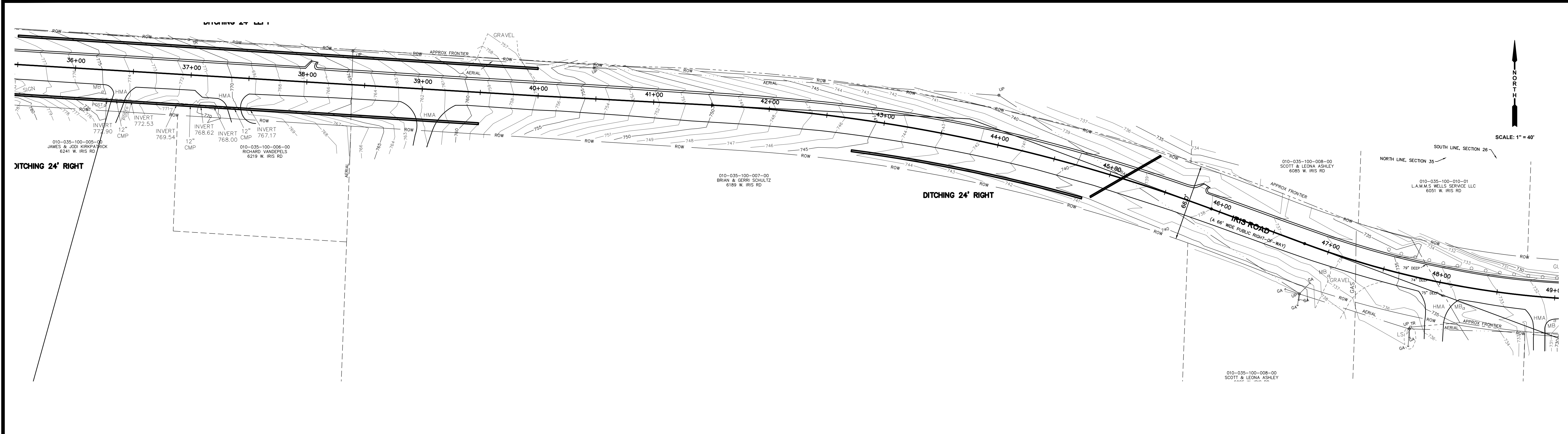


**MASON COUNTY**  
**ROAD COMMISSION**  
510 E. STATE STREET  
P.O. BOX 147  
SCOTTVILLE, MI. 49454  
(231) 757-2882

SURVEY CREW / DATE:	CEM LAW / MAY 2022
DRAWN BY:	CEM
CHECKED BY:	ERN
CONTACT INFO:	info@masoncountyroads.com
DATE:	JUNE 24, 2022
PROJECT:	IRIS RD 2022
<b>1 OF 5</b>	

S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASE - DESIGN 2-26-2024.dwg - IRIS ROAD TOPO 1 OF 5 - 2/26/2024 3:35:39 PM Eric

S:\CHARLEY\2022\Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Hwy to Lakeshore\BASE - DESIGN\2-26-2024.dwg - IRIS ROAD TOPO 2 OF 5 - 2/26/2024 3:56:05 PM Eric



Utility locations are approximate only. Please contact "Miss Dig" three working days prior to the start of construction for exact locations. (1-800-482-7171)

\* FRONTIER DEPTHS AT ROAD CROSSING PROVIDED BY FRONTIER \*

LEGEND	
—	SANITARY SEWER (SAN)
- - -	STORM SEWER (STM)
—	WATERMAIN (WAT)
—	GAS MAIN (GAS)
- - -	UG ELECTRIC (PWR)
- - -	UG TELECOMMUNICATIONS (TELCOM)
- - -	AERIAL UTILITY LINE (AERIAL)
—	FENCE
■	HOT MIX ASPHALT SURFACE (HMA)
●	SURVEY IRON (FOUND)
○	SURVEY IRON (SET)
M	MEASURED DIMENSION
D	DEEDED DIMENSION
P	PLATTED DIMENSION
R	RECORDED DIMENSION
L	LENGTH
R	RADIUS
CB	CHORD BEARING
C	CHORD DISTANCE
LS	LANDSCAPE AREA
FF	FINISHED FLOOR
△	FIRE PROT. VALVE (FPV)
×	UG GAS MARKER (UGM)
×	UG TELECOMMUNICATIONS MARKER (UTM)
□	MAILBOX (MB)
△	HYDRANT (HYD)
+	WATER VALVE (WV)
○	WATER STOP BOX (WSB)
○	MANHOLE (MH)
⊕	CATCH BASIN (CB)
⊕	UTILITY POLE (UP)
⊕	GUY ANCHOR (GA)
○	SAN CLEANOUT (CO)
□	GAS METER (GM)
□	ELECTRIC METER (EM)
□	ELECTRIC BOX (EB)
□	AIR CONDITIONER (AC)
□	YARD LIGHT (YL)
☆	LIGHT POLE (LP)
☆	LIGHT POLE W/CONC BASE (LPC)
□	TELECOMMUNICATION RISER (TR)
□	UG TELECOMMUNICATIONS BOX (UTB)

PLAN REVISIONS

**IRIS ROAD - S. LAKESHORE DRIVE TO PERE MARQUETTE HIGHWAY**

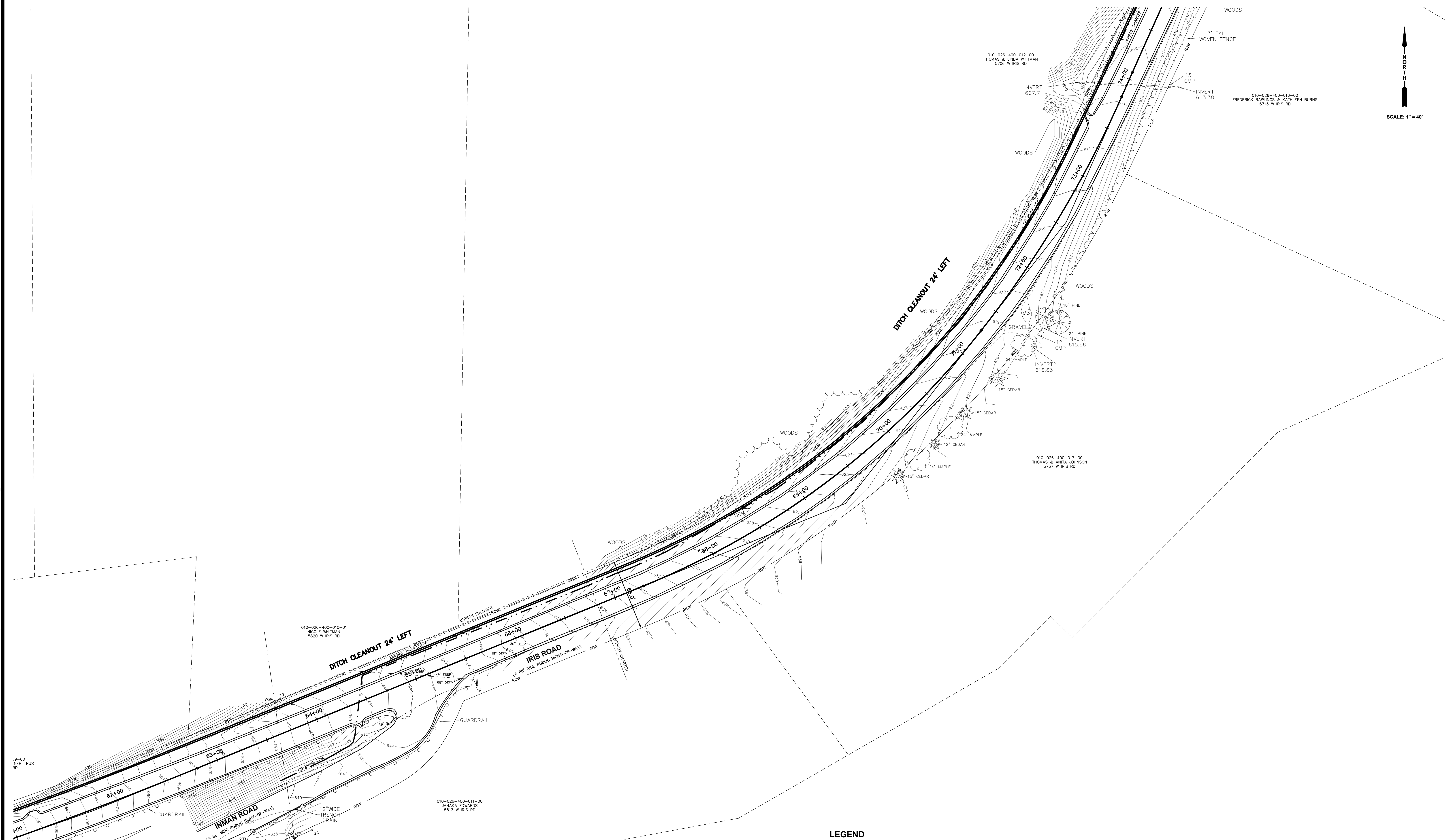
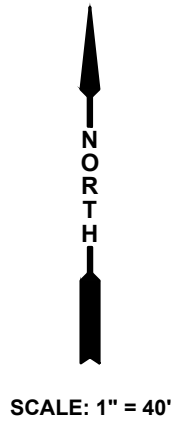
OF PART OF  
SECTIONS 25, 26, 27, 34 & 35, TOWN 18 NORTH, RANGE 18 WEST  
PERE MARQUETTE TOWNSHIP, MASON COUNTY, MICHIGAN



**MASON COUNTY**  
**ROAD COMMISSION**  
510 E. STATE STREET  
P.O. BOX 147  
SCOTTVILLE, MI. 49454  
(231) 757-2882

SURVEY CREW / DATE: CEM LAW / MAY 2022
DRAWN BY: CEM
CHECKED BY: ERN
CONTACT INFO: info@masoncountyroads.com
DATE: JUNE 24, 2022
PROJECT: IRIS RD 2022
<b>2 OF 5</b>

S:\CHARLEY\2022 Projects\Iris Rd. PM HWY to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASE - DESIGN\2-26-2024.dwg - IRIS ROAD TOPO TOPO 3 OF 5 - 2/26/2024 3:56:19 PM Eric



Know what's below.  
Call before you dig.

Utility locations are approximate only. Please contact "Miss Dig" three working days prior to the start of construction for exact locations. (1-800-482-7171)

\* FRONTIER DEPTHS AT ROAD CROSSING PROVIDED BY FRONTIER \*

- LEGEND**
- SANITARY SEWER (SAN)
  - - - STORM SEWER (STM)
  - WATERMAIN (WAT)
  - GAS MAIN (GAS)
  - - - UG ELECTRIC (PWR)
  - - - UG TELECOMMUNICATIONS (TELCOM)
  - AERIAL UTILITY LINE (AERIAL)
  - FENCE
  - HOT MIX ASPHALT SURFACE (HMA)
  - △ - HYDRANT (HYD)
  - ⊕ - WATER VALVE (WV)
  - - WATER STOP BOX (WSB)
  - - MANHOLE (MH)
  - ⊕ - CATCH BASIN (CB)
  - ⊕ - UTILITY POLE (UP)
  - ⊕ - GUY ANCHOR (GA)
  - - SAN CLEANOUT (CO)
  - ⊕ - GAS METER (GM)
  - ⊕ - ELECTRIC METER (EM)
  - ⊕ - ELECTRIC BOX (EB)
  - ⊕ - AIR CONDITIONER (AC)
  - ⊕ - YARD LIGHT (YL)
  - ⊕ - LIGHT POLE (LP)
  - ⊕ - LIGHT POLE W/CONC BASE (LPC)
  - ⊕ - TELECOMMUNICATION RISER (TR)
  - ⊕ - UG TELECOMMUNICATIONS BOX (UTB)
  - - SURVEY IRON (FOUND)
  - - SURVEY IRON (SET)
  - M - MEASURED DIMENSION
  - D - DEEDED DIMENSION
  - P - PLATTED DIMENSION
  - R - RECORDED DIMENSION
  - L - LENGTH
  - R - RADIUS
  - CB - CHORD BEARING
  - C - CHORD DISTANCE
  - LS - LANDSCAPE AREA
  - FF - FINISHED FLOOR
  - △ - FIRE PROT. VALVE (FPV)
  - × - UG GAS MARKER (UGM)
  - × - UG TELECOMMUNICATIONS MARKER (UTM)
  - - MAILBOX (MB)

PLAN REVISIONS

**IRIS ROAD - S. LAKESHORE DRIVE TO PERE MARQUETTE HIGHWAY**

OF PART OF  
**SECTIONS 25, 26, 27, 34 & 35, TOWN 18 NORTH, RANGE 18 WEST**  
**PERE MARQUETTE TOWNSHIP, MASON COUNTY, MICHIGAN**



**MASON COUNTY**  
**ROAD COMMISSION**  
510 E. STATE STREET  
P.O. BOX 147  
SCOTTVILLE, MI. 49454  
(231) 757-2882

<b>SURVEY CREW / DATE:</b> CEM LAW / MAY 2022
<b>DRAWN BY:</b> CEM
<b>CHECKED BY:</b> ERN
<b>CONTACT INFO:</b> info@masoncountyroads.com
<b>DATE:</b> JUNE 24, 2022
<b>PROJECT:</b> IRIS RD 2022
<b>3 OF 5</b>

S:\CHARLEY\2022 Projects\Iris Rd. PM HWY to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASE - DESIGN 2-26-2024.dwg - IRIS ROAD TOPO 4 OF 5 - 2/26/2024 3:36:34 PM Eric

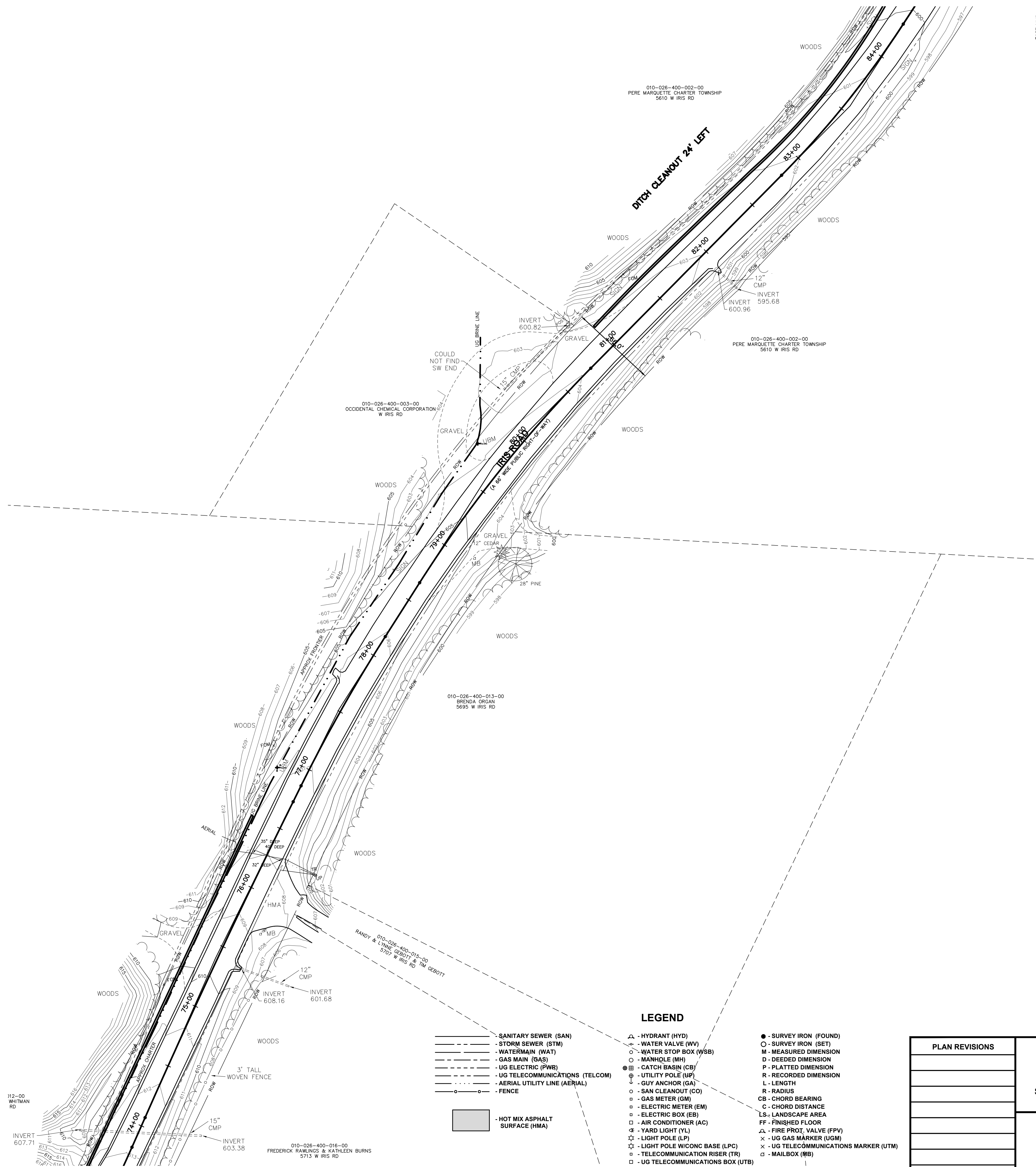


Know what's below.  
Call before you dig.



Utility locations are approximate only.  
Please contact "Miss Dig" three working days prior to the start of construction for exact locations. (1-800-482-7171)

\* FRONTIER DEPTHS AT ROAD CROSSING PROVIDED BY FRONTIER \*



———	SANITARY SEWER (SAN)
---	STORM SEWER (STM)
—+—+—	WATERMAIN (WAT)
—+—+—+—+—	GAS MAIN (GAS)
- - - - -	UG ELECTRIC (PWR)
⋯⋯⋯	UG TELECOMMUNICATIONS (TELCOM)
- - - - -	AERIAL UTILITY LINE (AERIAL)
—+—+—+—+—	FENCE
[Hatched Box]	HOT MIX ASPHALT SURFACE (HMA)

- LEGEND**
- Δ - HYDRANT (HYD)
  - ⊙ - WATER VALVE (WV)
  - - WATER STOP BOX (WSB)
  - - MANHOLE (MH)
  - ⊖ - CATCH BASIN (CB)
  - ⊕ - UTILITY POLE (UP)
  - ⊥ - GUY ANCHOR (GA)
  - - SAN CLEANOUT (CO)
  - - GAS METER (GM)
  - - ELECTRIC METER (EM)
  - - ELECTRIC BOX (EB)
  - - AIR CONDITIONER (AC)
  - ⊙ - AIR LIGHT (YL)
  - ⊙ - LIGHT POLE (LP)
  - ⊙ - LIGHT POLE W/CONC BASE (LPC)
  - ⊙ - TELECOMMUNICATION RISER (TR)
  - - UG TELECOMMUNICATIONS BOX (UTB)
  - - SURVEY IRON (FOUND)
  - - SURVEY IRON (SET)
  - M - MEASURED DIMENSION
  - D - DEEDED DIMENSION
  - P - PLATTED DIMENSION
  - R - RECORDED DIMENSION
  - L - LENGTH
  - R - RADIUS
  - CB - CHORD BEARING
  - C - CHORD DISTANCE
  - LS - LANDSCAPE AREA
  - FF - FINISHED FLOOR
  - Δ - FIRE PROT. VALVE (FPV)
  - × - UG GAS MARKER (UGM)
  - × - UG TELECOMMUNICATIONS MARKER (UTM)
  - - MAILBOX (MB)

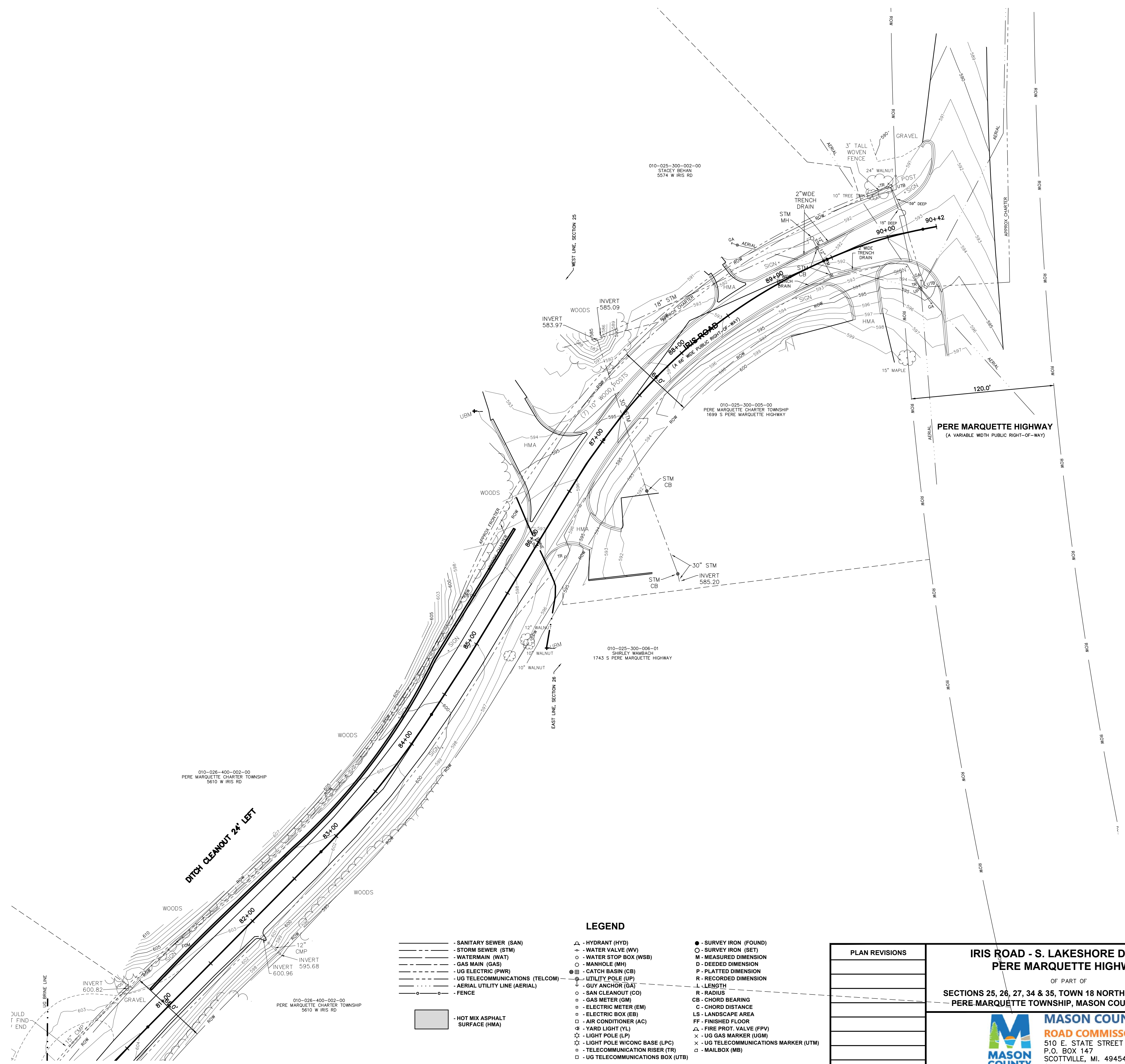
PLAN REVISIONS

<b>IRIS ROAD - S. LAKESHORE DRIVE TO PERE MARQUETTE HIGHWAY</b>		SURVEY CREW / DATE: CEM LAW / MAY 2022	
OF PART OF <b>SECTIONS 25, 26, 27, 34 &amp; 35, TOWN 18 NORTH, RANGE 18 WEST PERE MARQUETTE TOWNSHIP, MASON COUNTY, MICHIGAN</b>		DRAWN BY: CEM	
<b>MASON COUNTY ROAD COMMISSION</b>		CHECKED BY: ERN	
510 E. STATE STREET P.O. BOX 147 SCOTTVILLE, MI. 49454 (231) 757-2882		CONTACT INFO: info@masoncountyroads.com	
		DATE: JUNE 24, 2022	
		PROJECT: IRIS RD 2022	
		<b>4 OF 5</b>	



S:\CHARLEY\2022\Projects\Iris Rd. PM HWY to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASE - DESIGN 2-26-2024.dwg - IRIS ROAD TOPO 5 OF 5 - 2/26/2024 3:56:50 PM Eric

SCALE: 1" = 40'



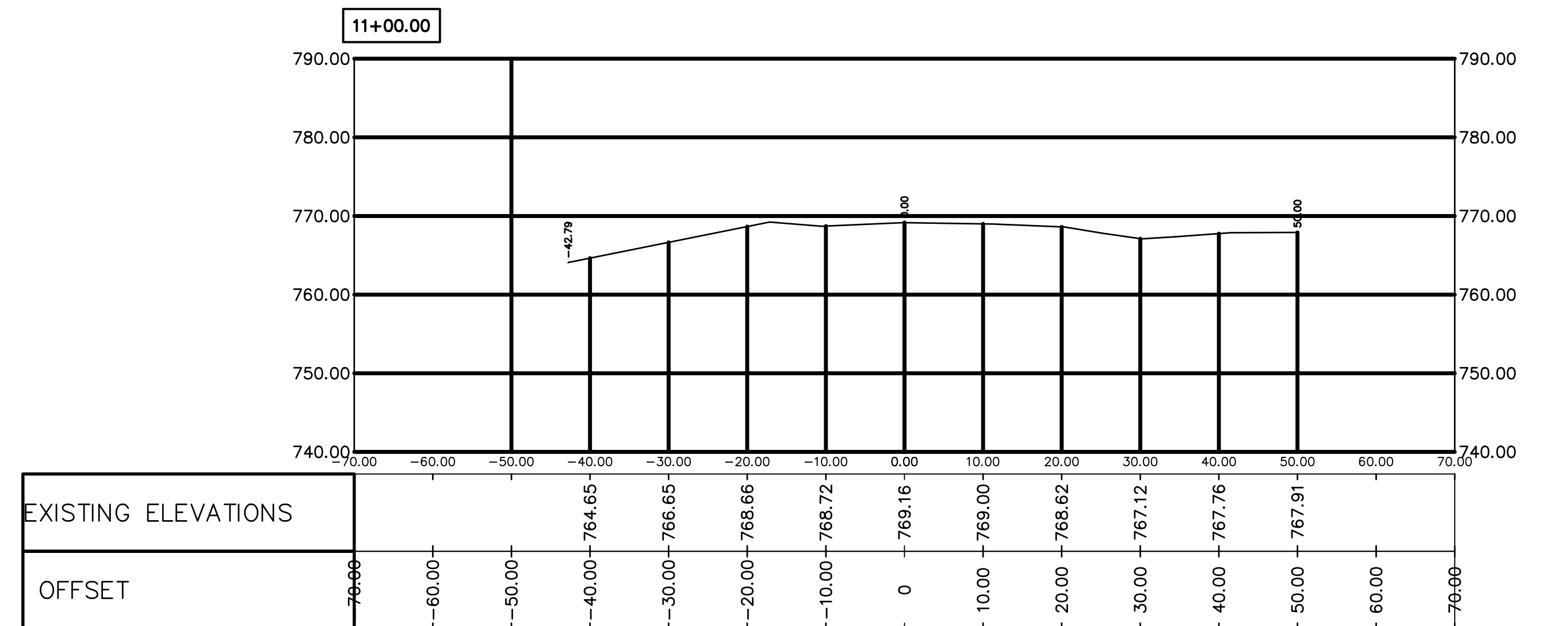
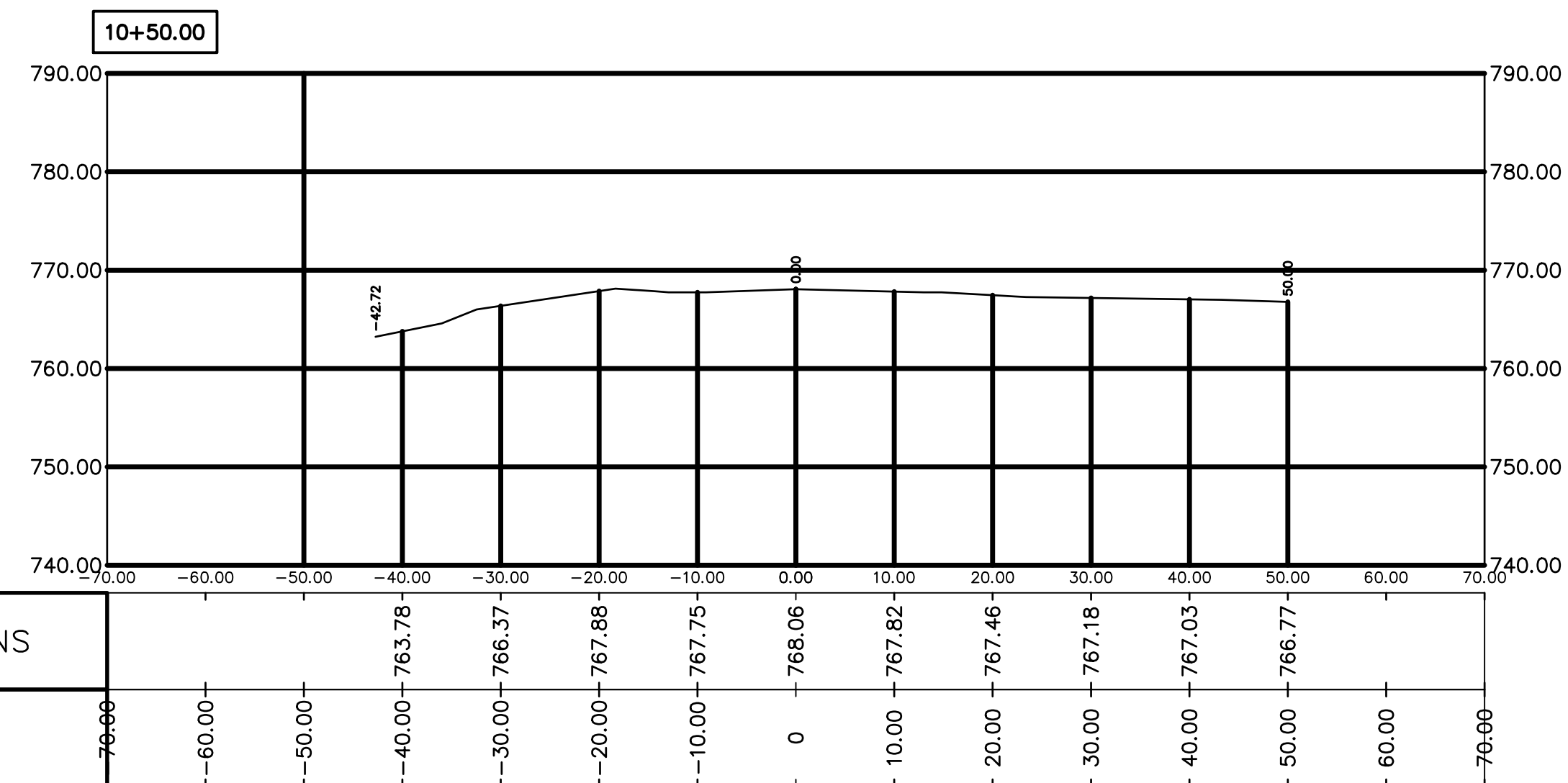
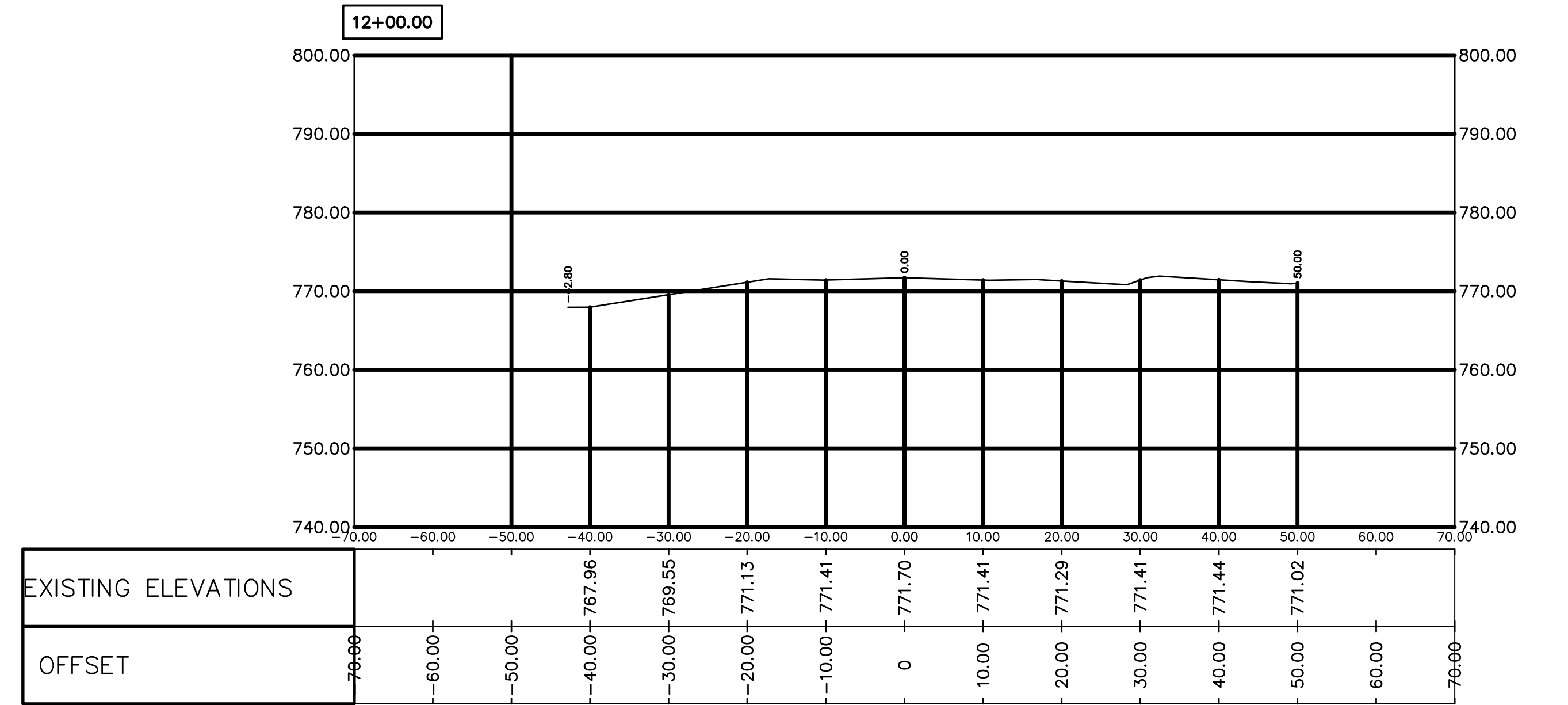
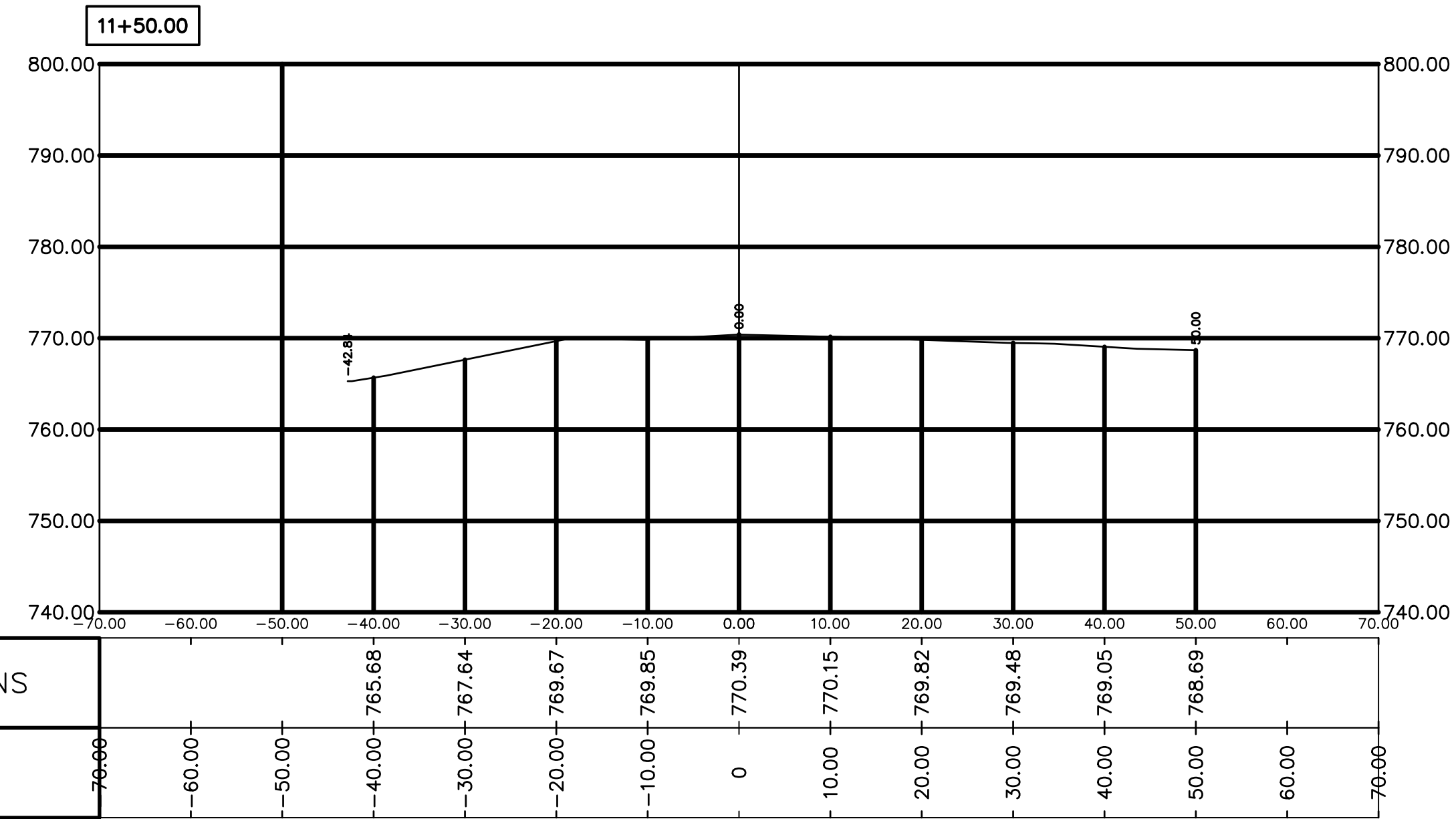
Know what's below.  
Call before you dig.

Utility locations are approximate only. Please contact "Miss Dig" three working days prior to the start of construction for exact locations. (1-800-482-7171)

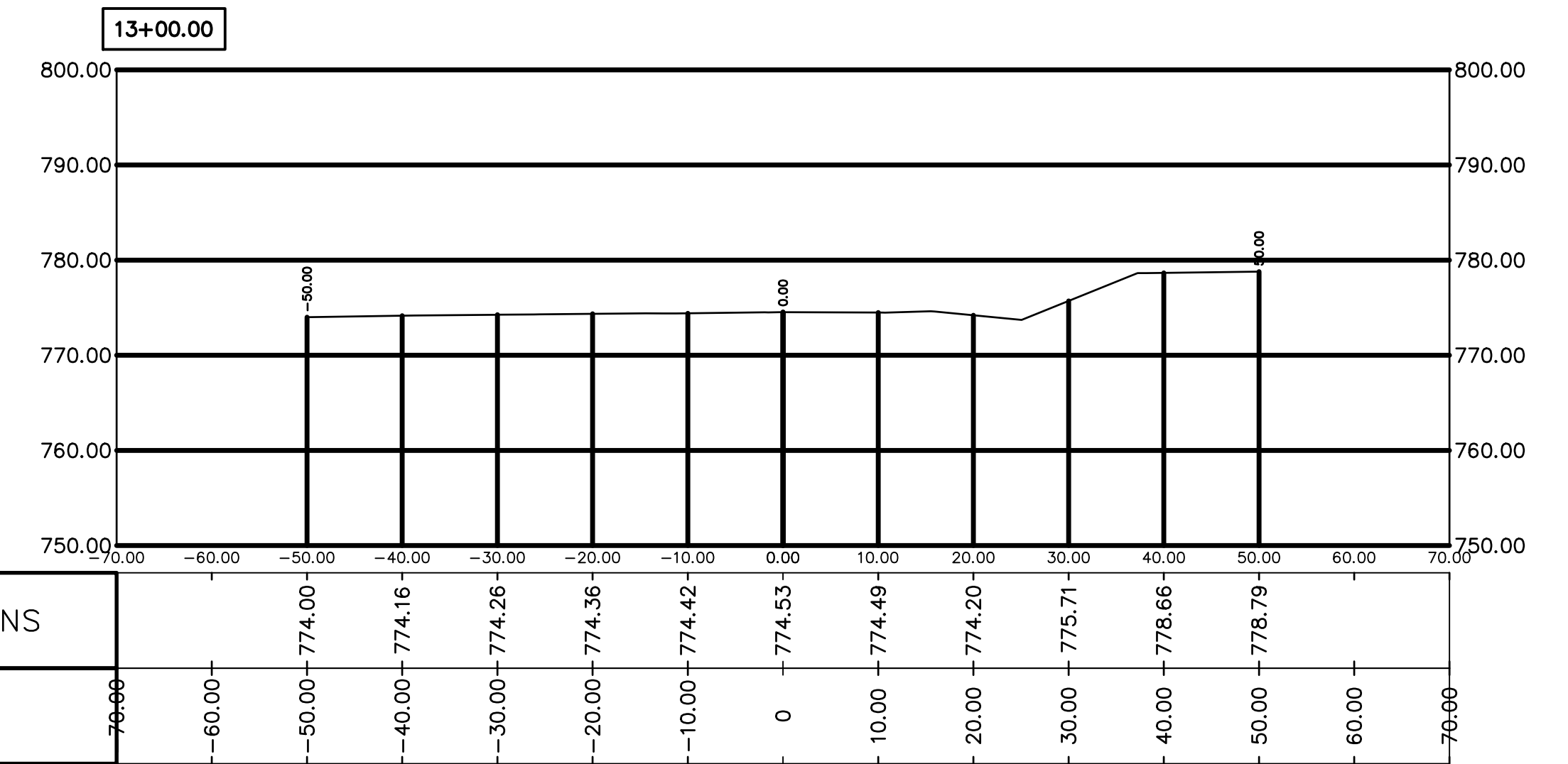
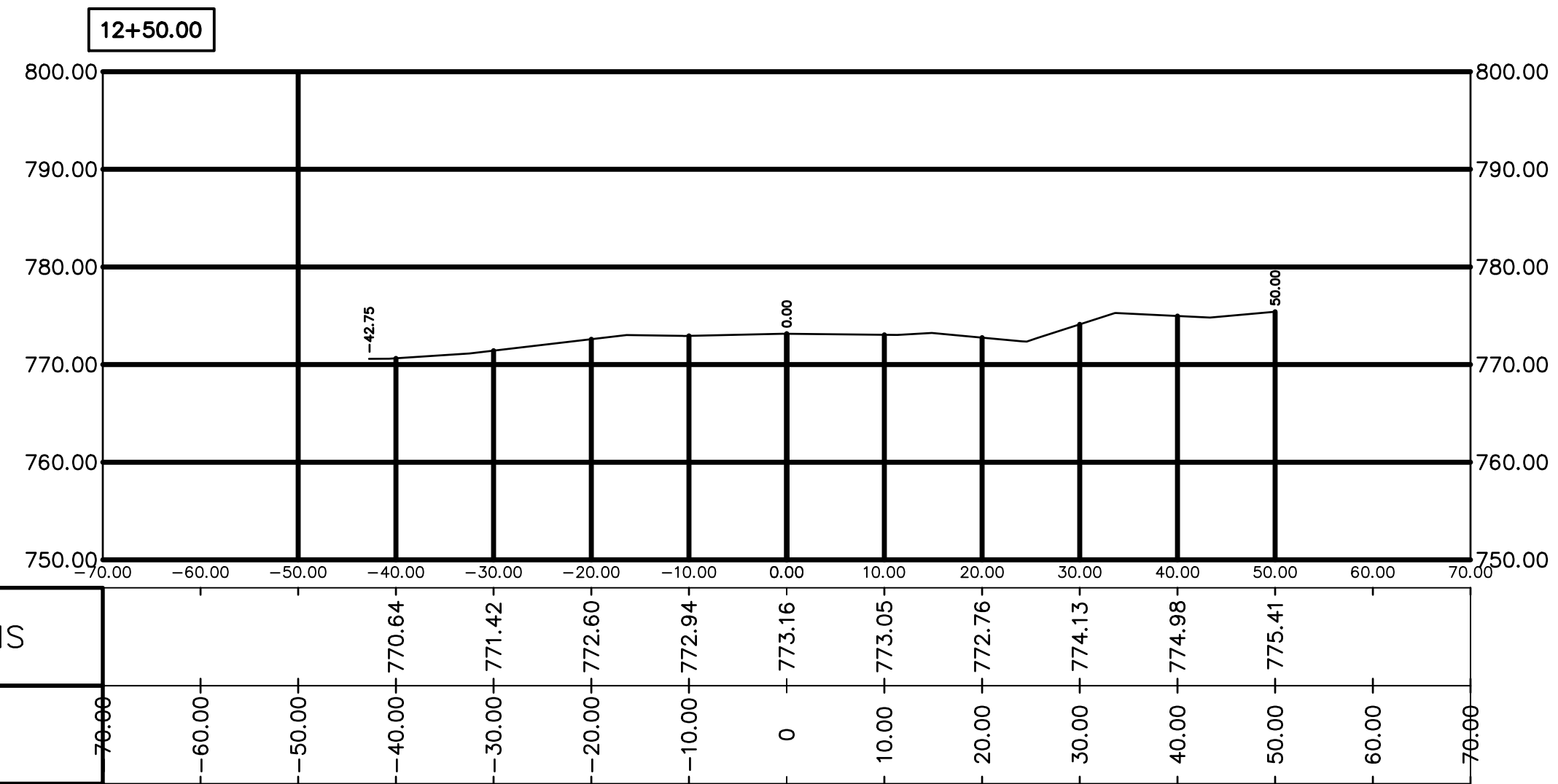
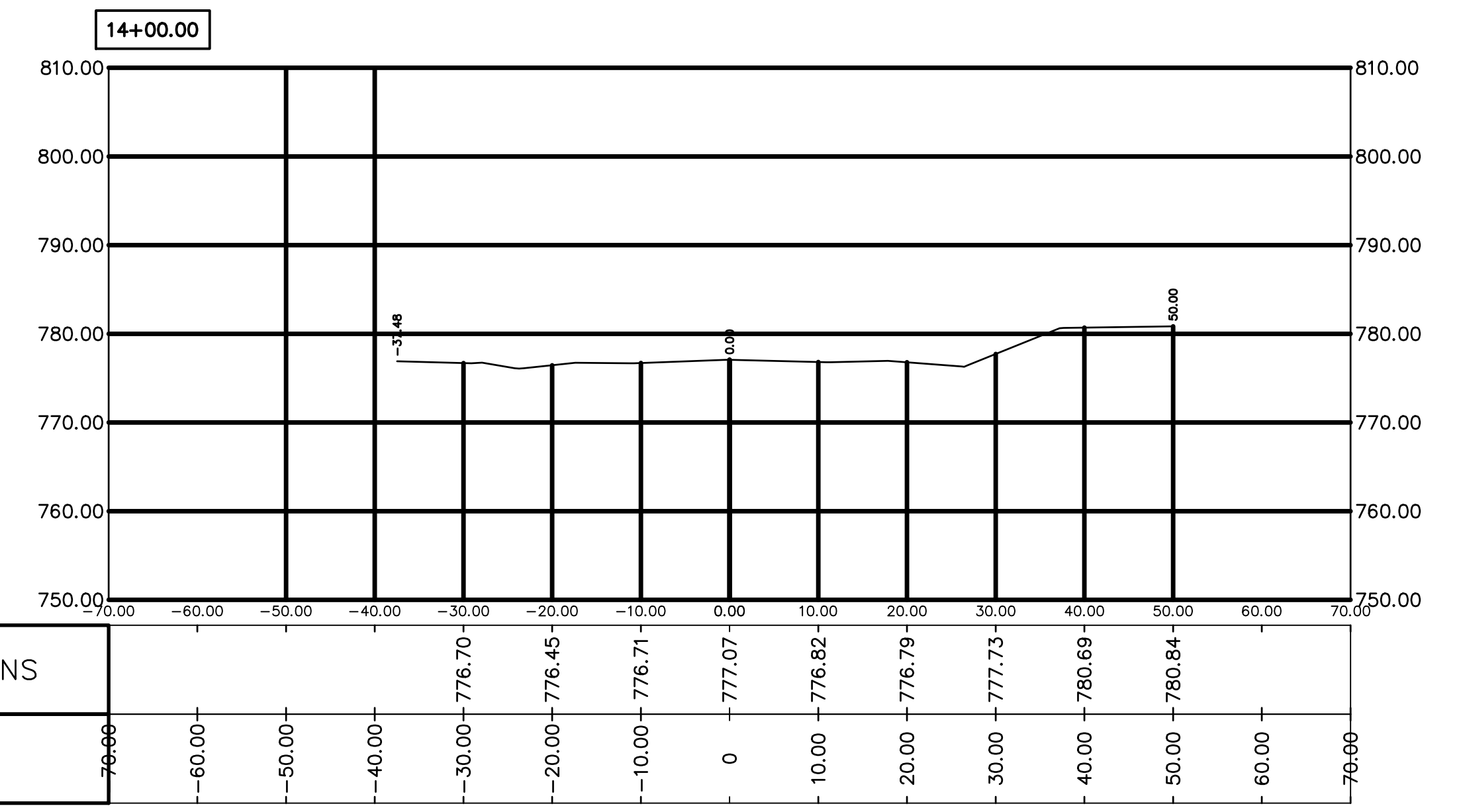
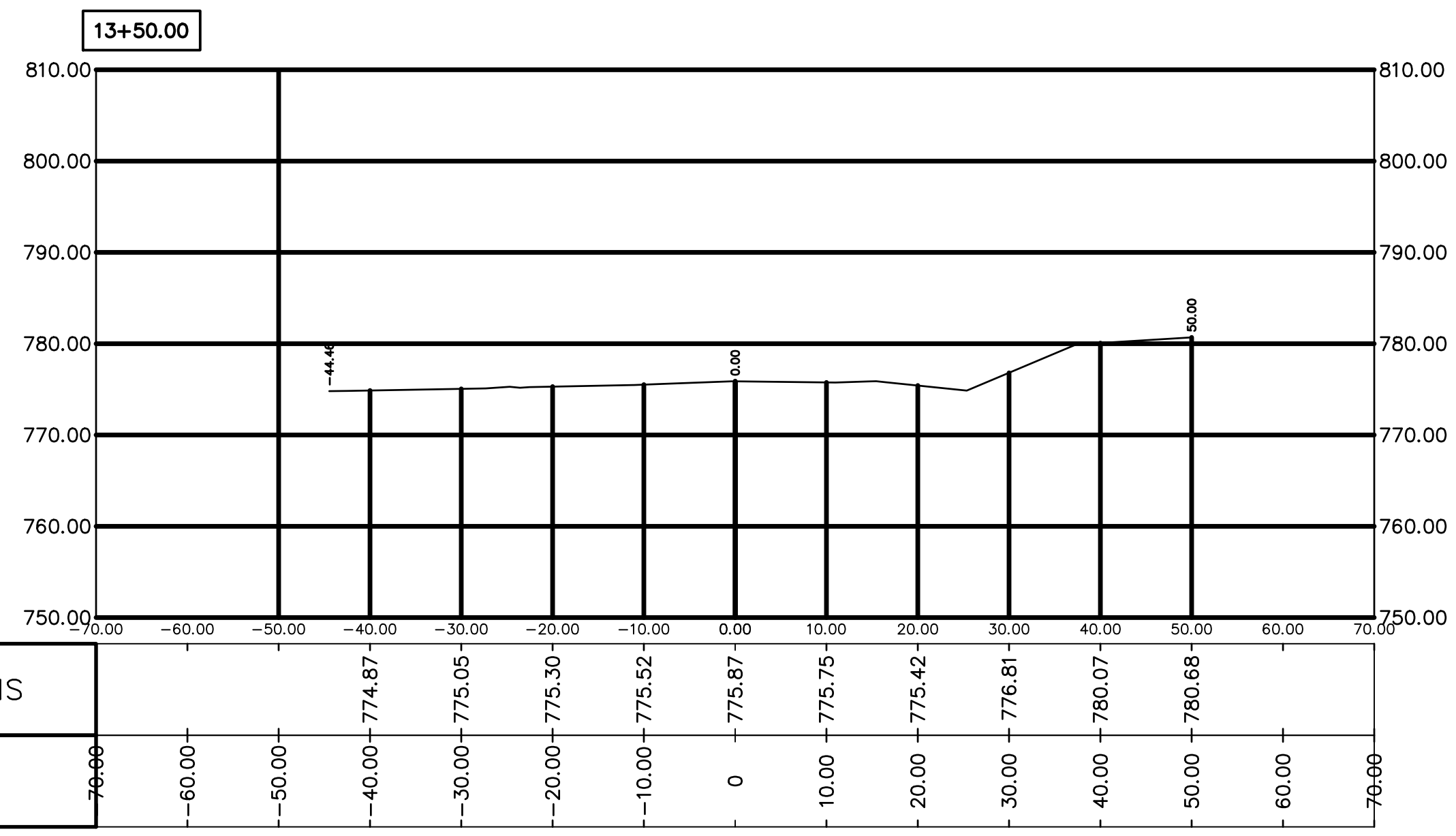
\* FRONTIER DEPTHS AT ROAD CROSSING PROVIDED BY FRONTIER \*

- LEGEND**
- SANITARY SEWER (SAN)
  - STORM SEWER (STM)
  - - - WATERMAIN (WAT)
  - - - GAS MAIN (GAS)
  - - - UG ELECTRIC (PWR)
  - - - UG TELECOMMUNICATIONS (TELCOM)
  - - - AERIAL UTILITY LINE (AERIAL)
  - - - FENCE
  - HOT MIX ASPHALT SURFACE (HMA)
  - ▲ HYDRANT (HYD)
  - ◆ WATER VALVE (WV)
  - WATER STOP BOX (WSB)
  - MANHOLE (MH)
  - ⊙ CATCH BASIN (CB)
  - ⊙ UTILITY POLE (UP)
  - ⊙ GUY ANCHOR (GA)
  - SAN CLEANOUT (CO)
  - GAS METER (GM)
  - ELECTRIC METER (EM)
  - ELECTRIC BOX (EB)
  - AIR CONDITIONER (AC)
  - YARD LIGHT (YL)
  - LIGHT POLE (LP)
  - LIGHT POLE W/CONC BASE (LPC)
  - TELECOMMUNICATION RISER (TR)
  - UG TELECOMMUNICATIONS BOX (UTB)
  - SURVEY IRON (FOUND)
  - SURVEY IRON (SET)
  - M - MEASURED DIMENSION
  - D - DEEDED DIMENSION
  - P - PLATTED DIMENSION
  - R - RECORDED DIMENSION
  - L - LENGTH
  - R - RADIUS
  - CB - CHORD BEARING
  - C - CHORD DISTANCE
  - LS - LANDSCAPE AREA
  - FF - FINISHED FLOOR
  - ▲ - FIRE PROT. VALVE (FPV)
  - × - UG GAS MARKER (UGM)
  - × - UG TELECOMMUNICATIONS MARKER (UTM)
  - - MAILBOX (MB)

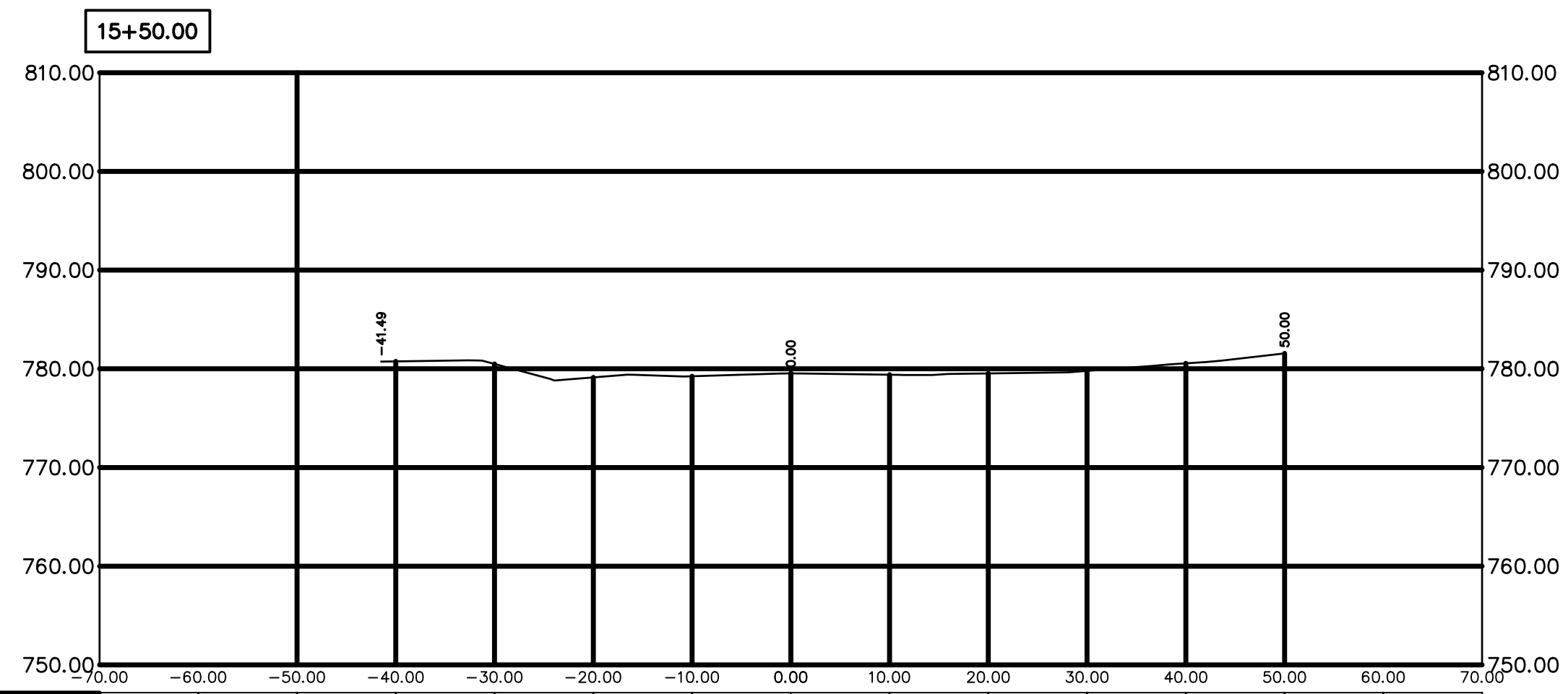
PLAN REVISIONS	IRIS ROAD - S. LAKESHORE DRIVE TO PERE MARQUETTE HIGHWAY	SURVEY CREW / DATE: CEM LAW / MAY 2022
	OF PART OF	DRAWN BY: CEM
	SECTIONS 25, 26, 27, 34 & 35, TOWN 18 NORTH, RANGE 18 WEST	CHECKED BY: ERN
	PERE MARQUETTE TOWNSHIP, MASON COUNTY, MICHIGAN	CONTACT INFO: info@masoncountyroads.com
	 <b>MASON COUNTY ROAD COMMISSION</b>	DATE: JUNE 24, 2022
	510 E. STATE STREET P.O. BOX 147 SCOTTVILLE, MI. 49454 (231) 757-2882	PROJECT: IRIS RD 2022
		<b>5 OF 5</b>



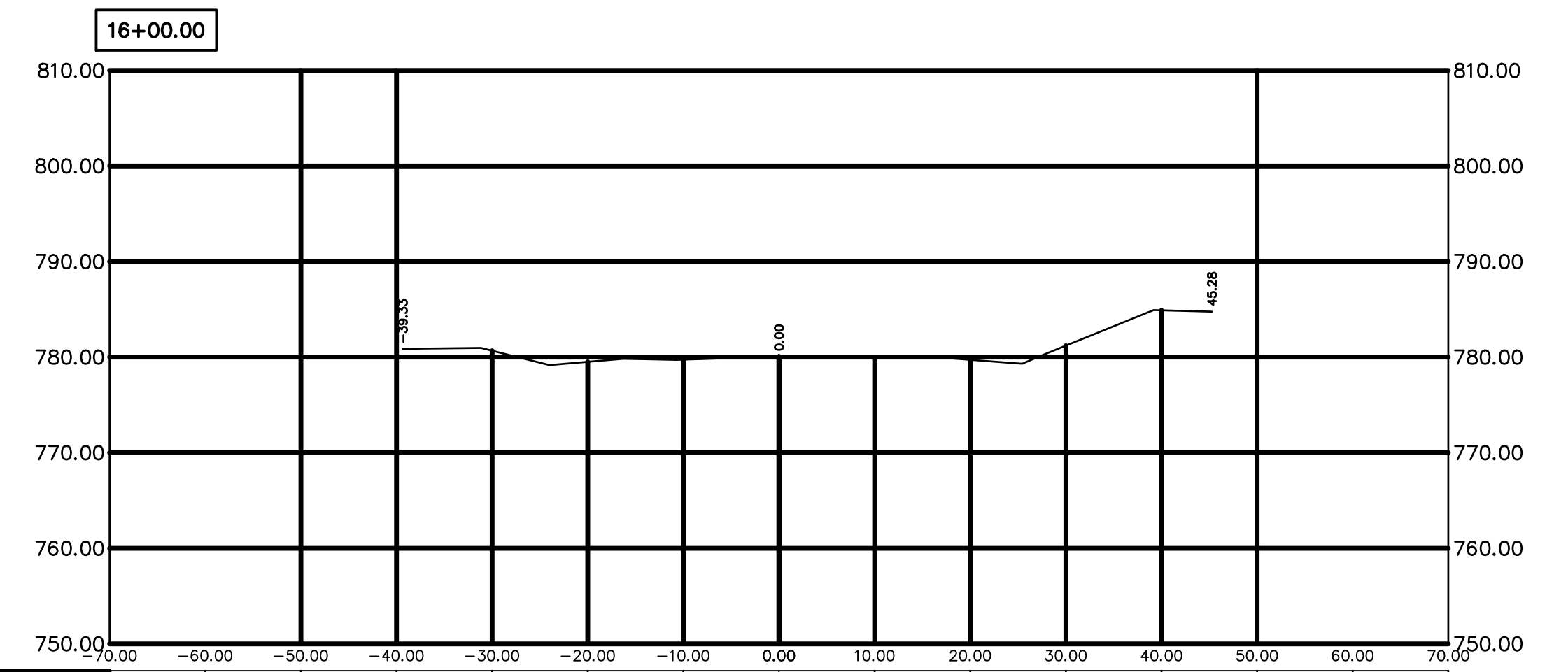
S:\CHARLEY\2022 Projects\11818 Rd. PM Highway to Lakeshore\CAD\11818 Rd. PM Highway to Lakeshore\CAD\11818 Rd. PM Highway to Lakeshore\11818 Rd. PM Highway to Lakeshore.dwg - CSI (2) - 2/27/2024 11:19:36 AM L Eric



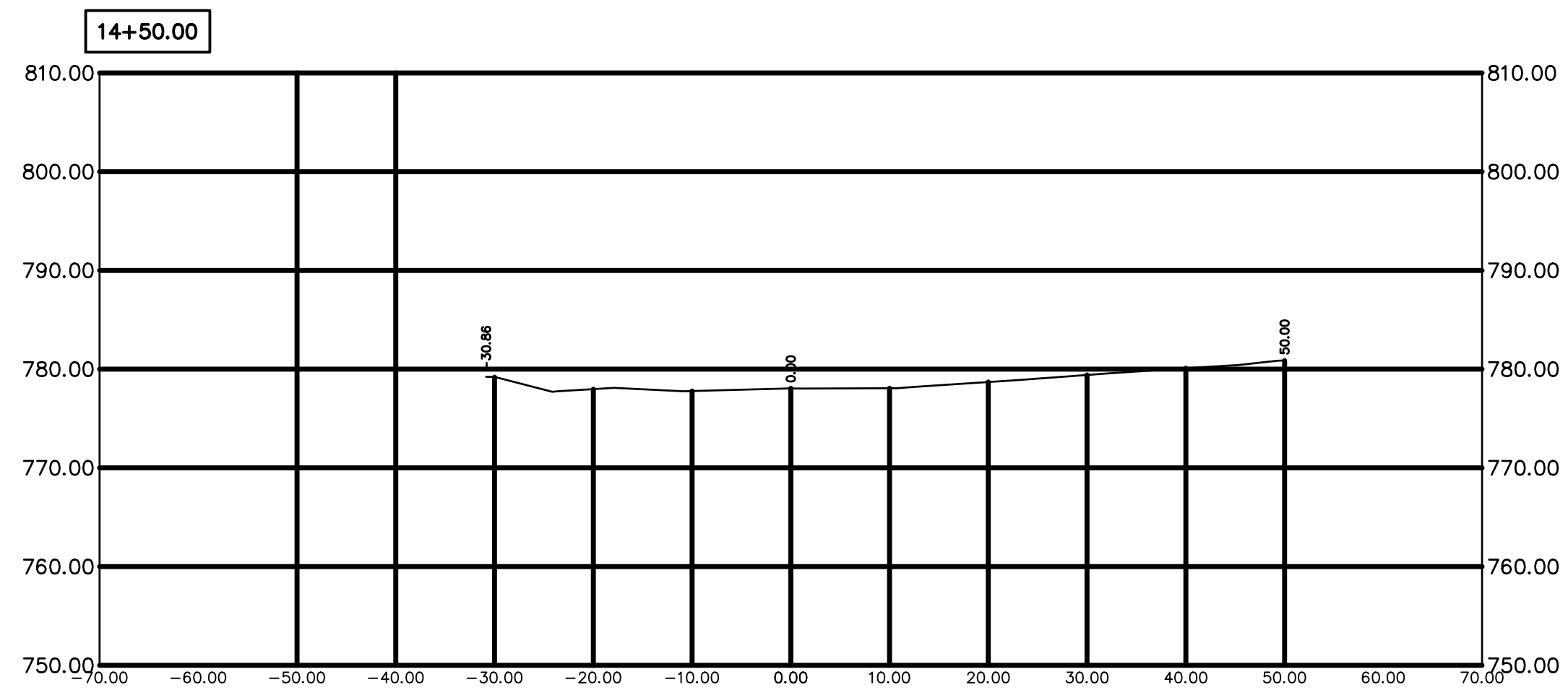
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (3) - 2/27/2024 11:19:56 AM Eric



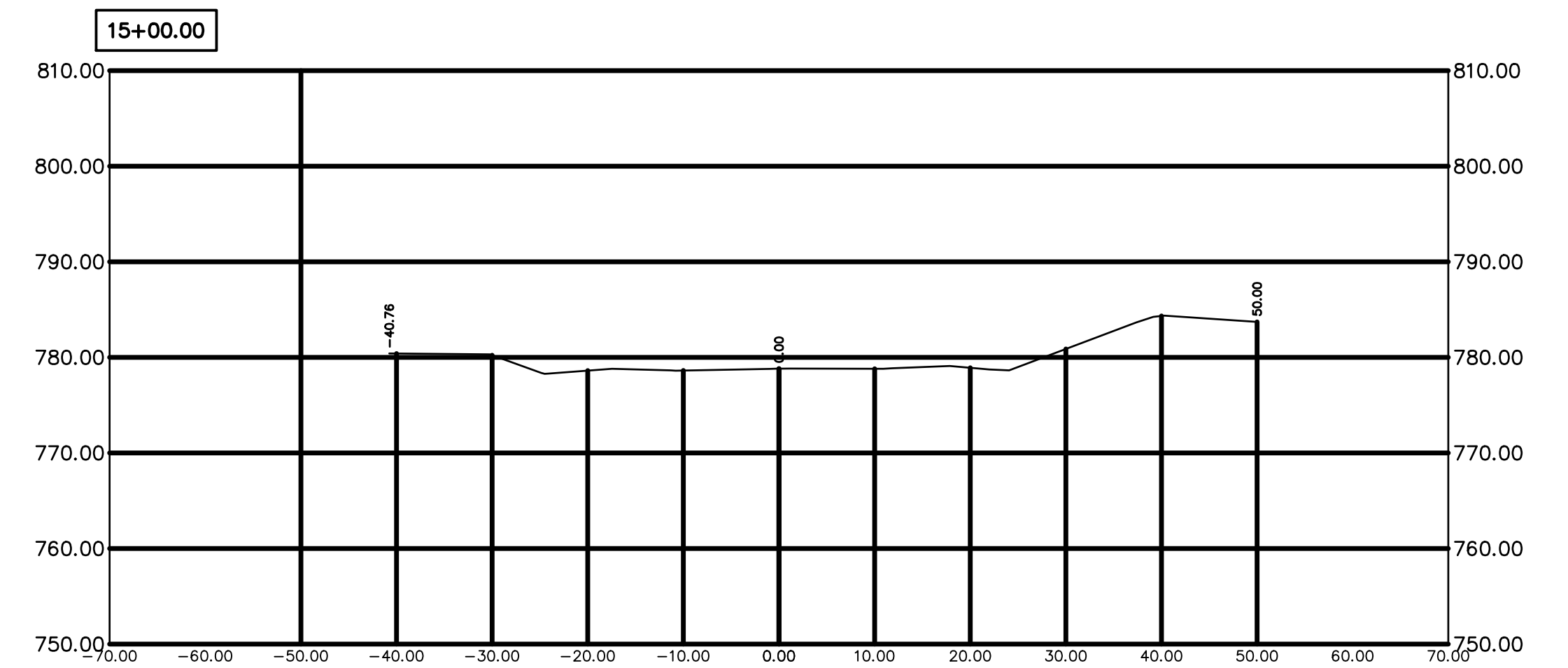
EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66



EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

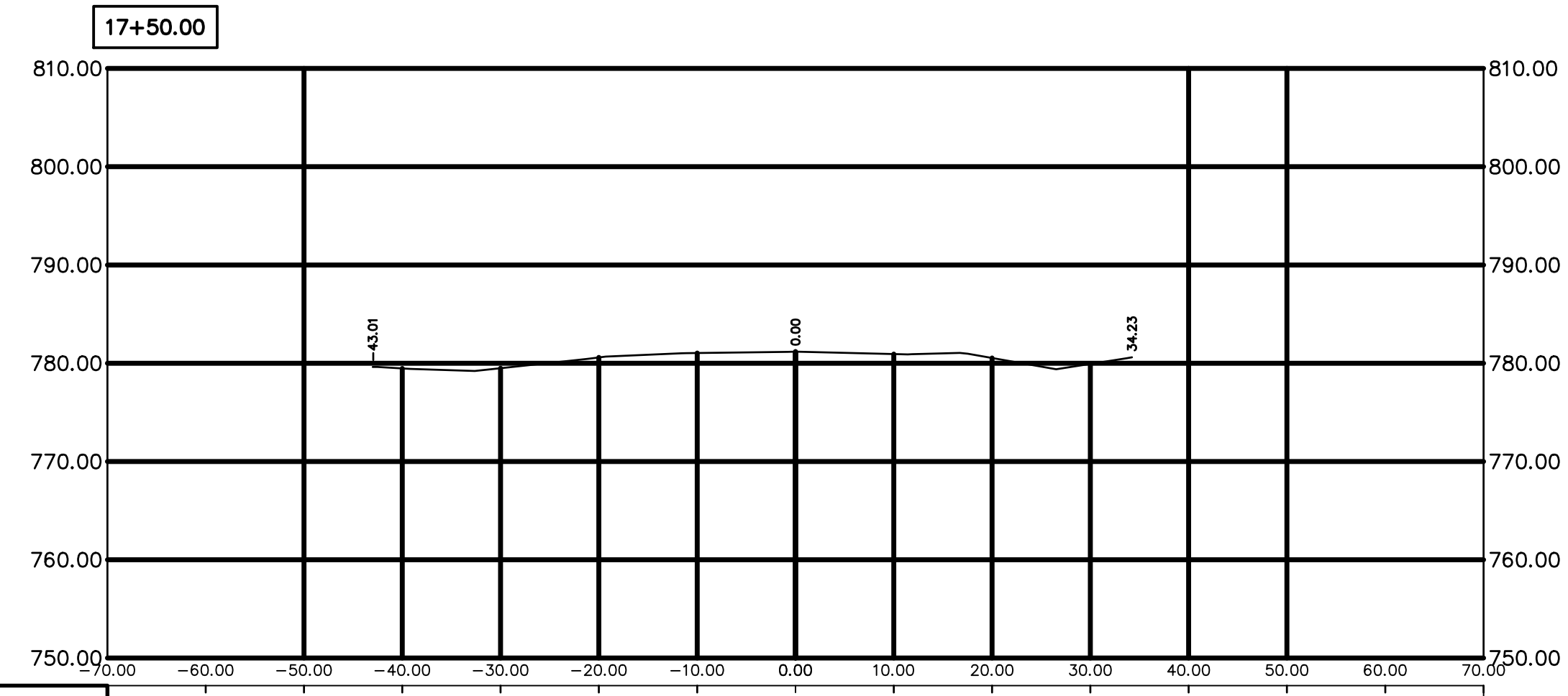


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

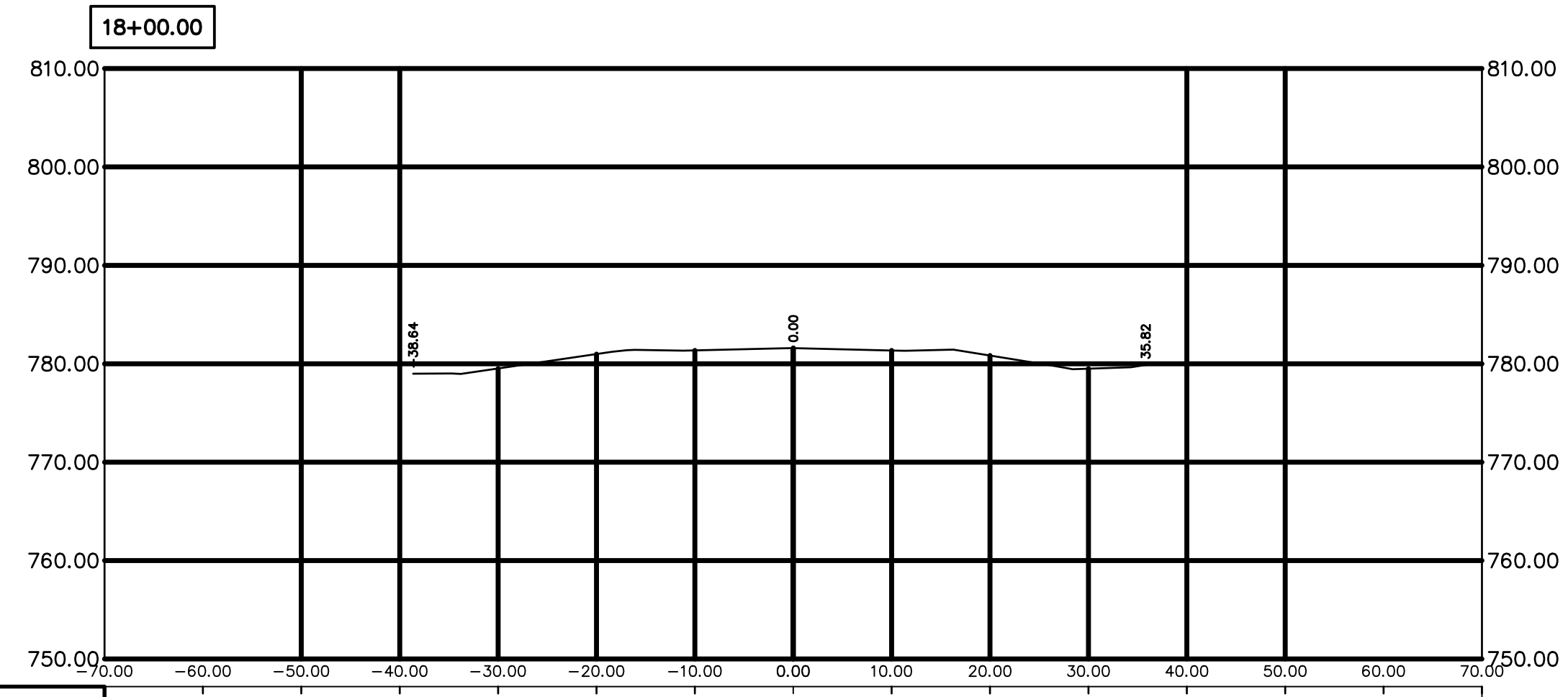


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

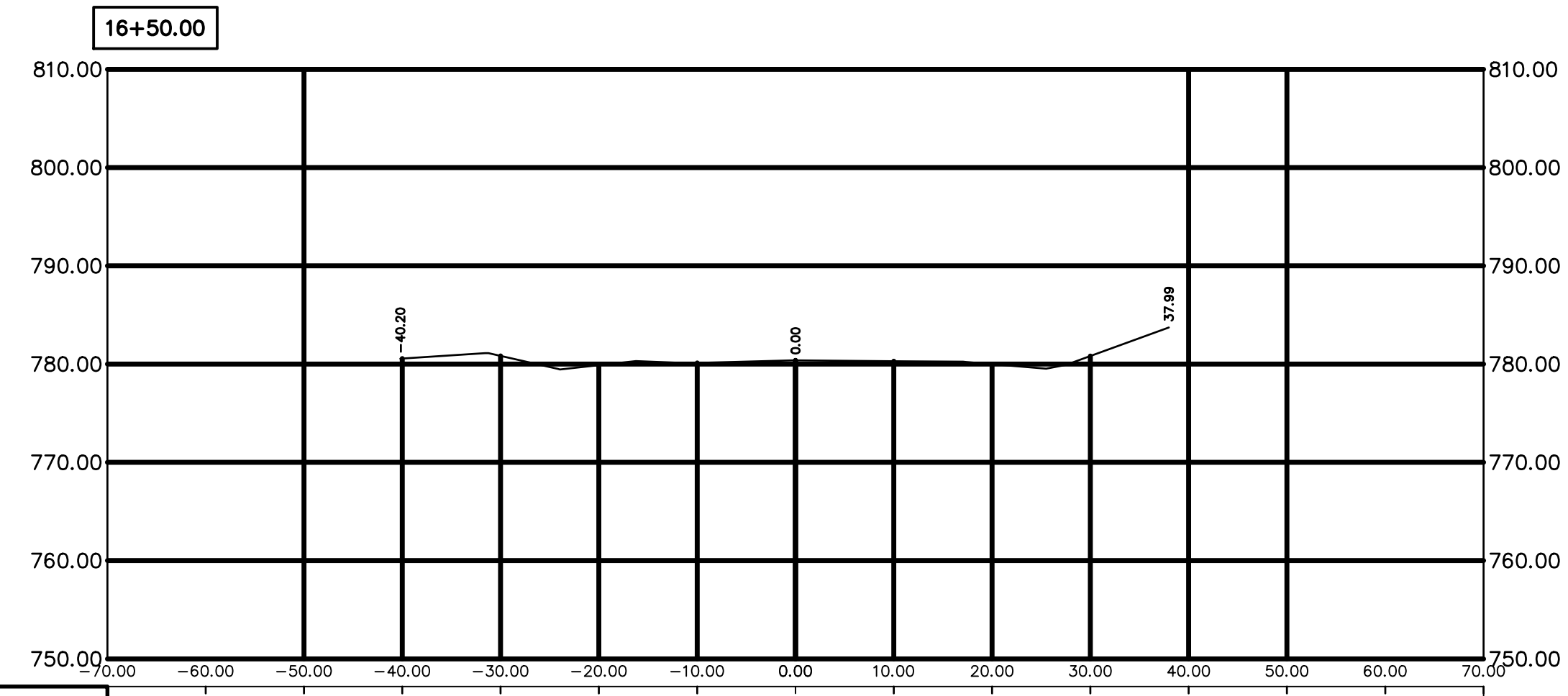
S:\CHARLEY\2022 Projects\118 Rd. PM Highway to Lakeshore\CAD\118 - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (4) - 2/27/2024 11:20:16 AM, Eric



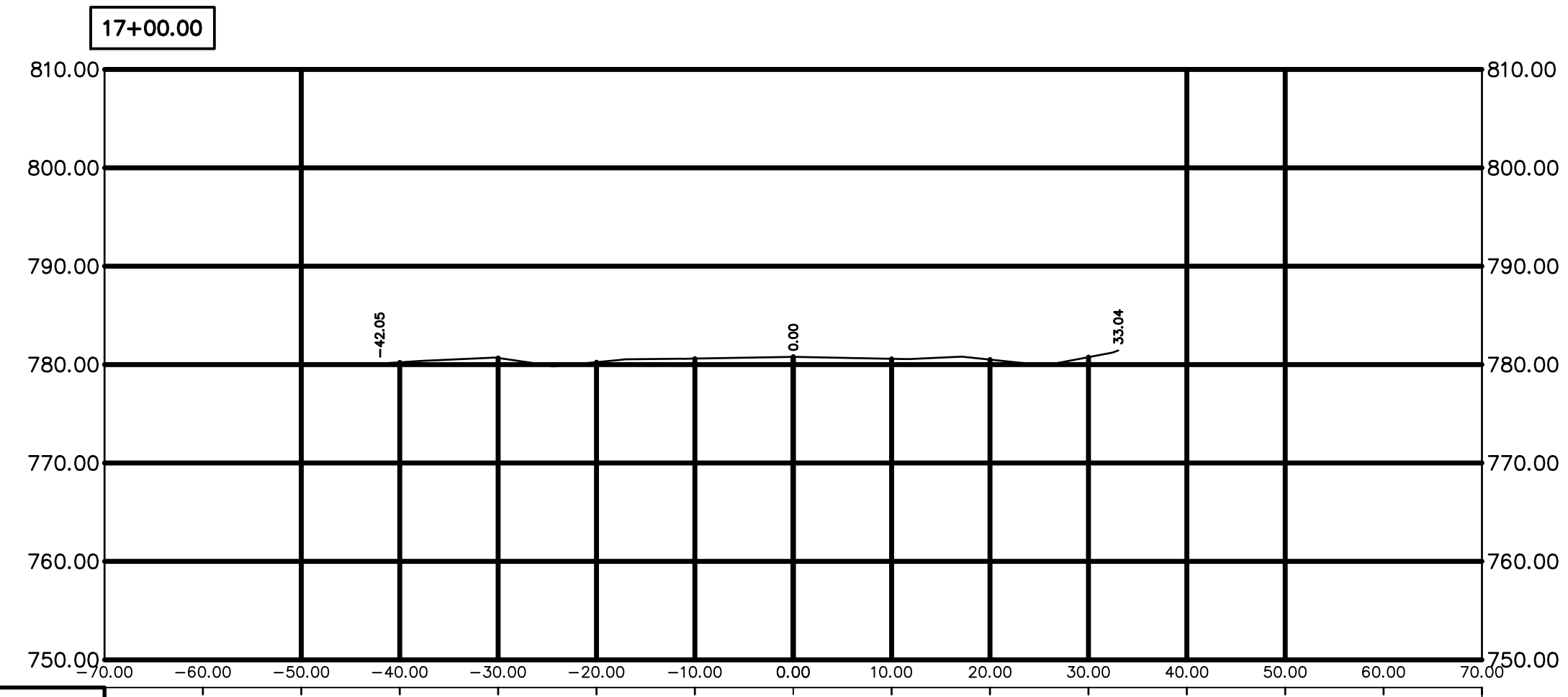
EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00



EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00

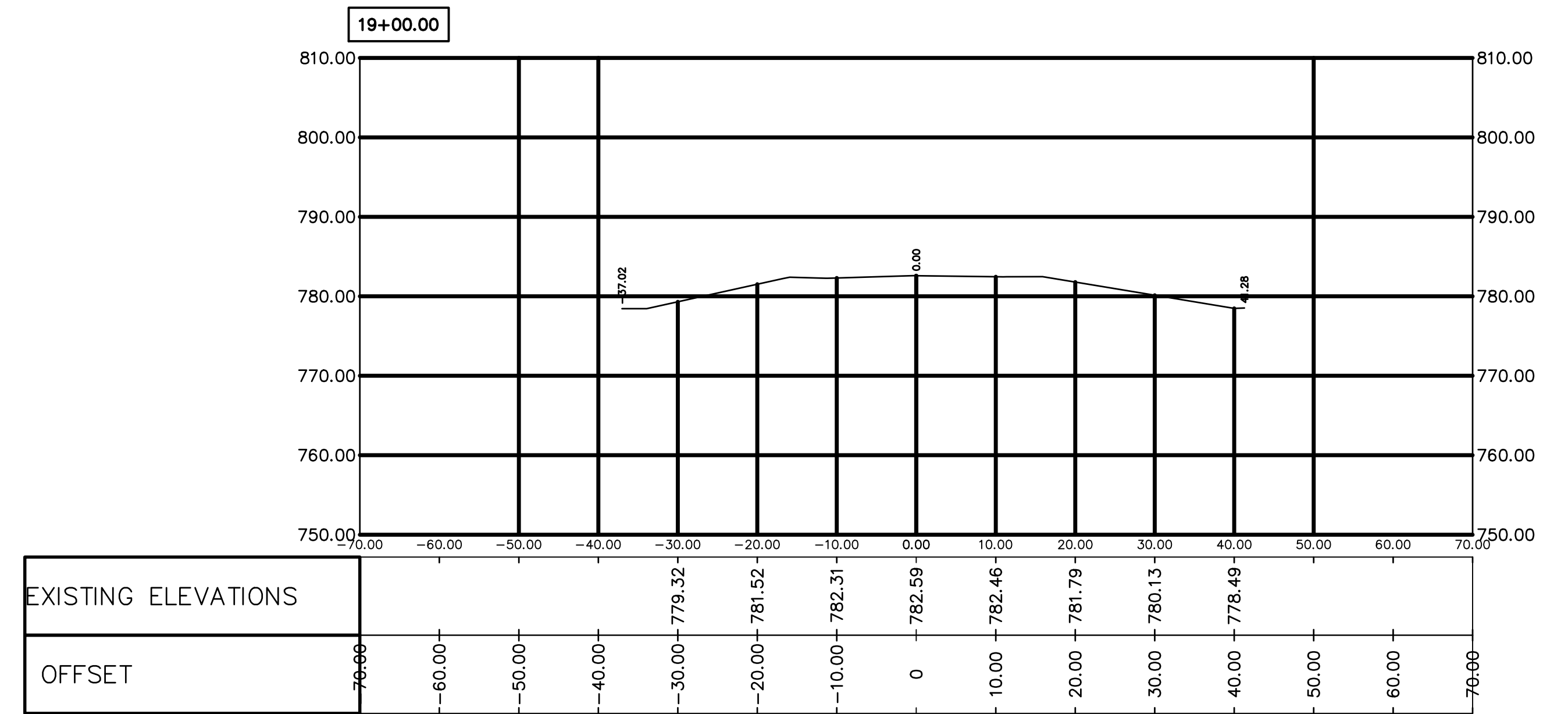
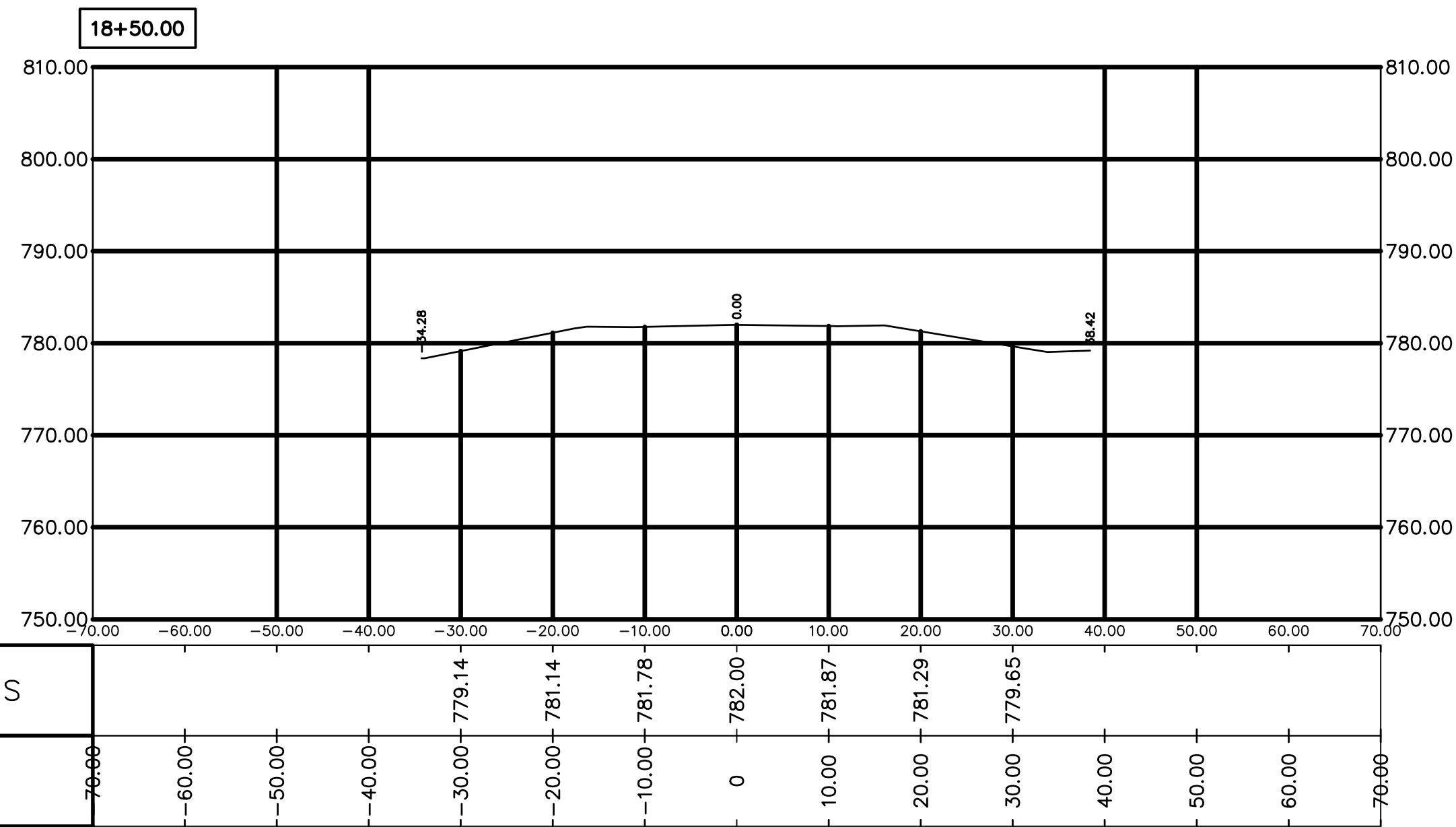
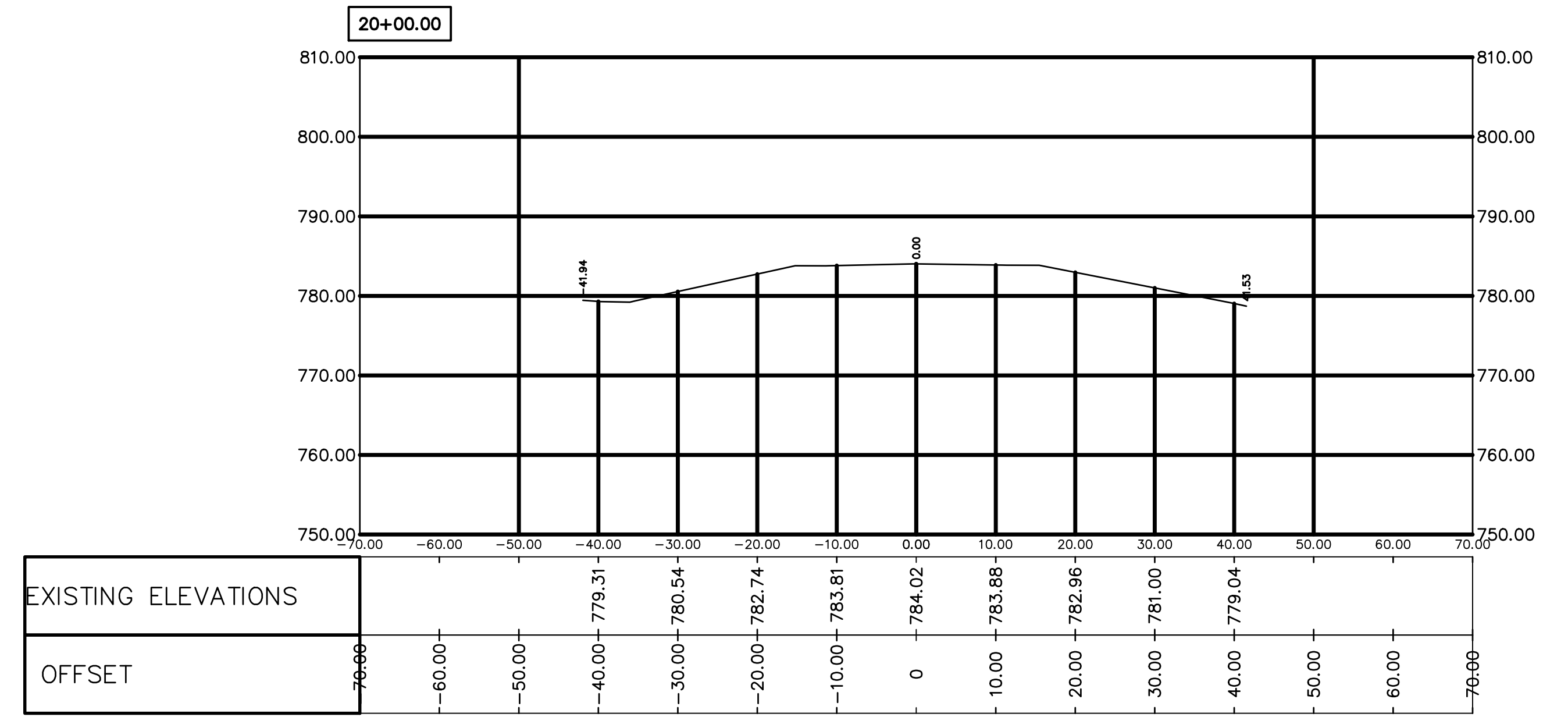
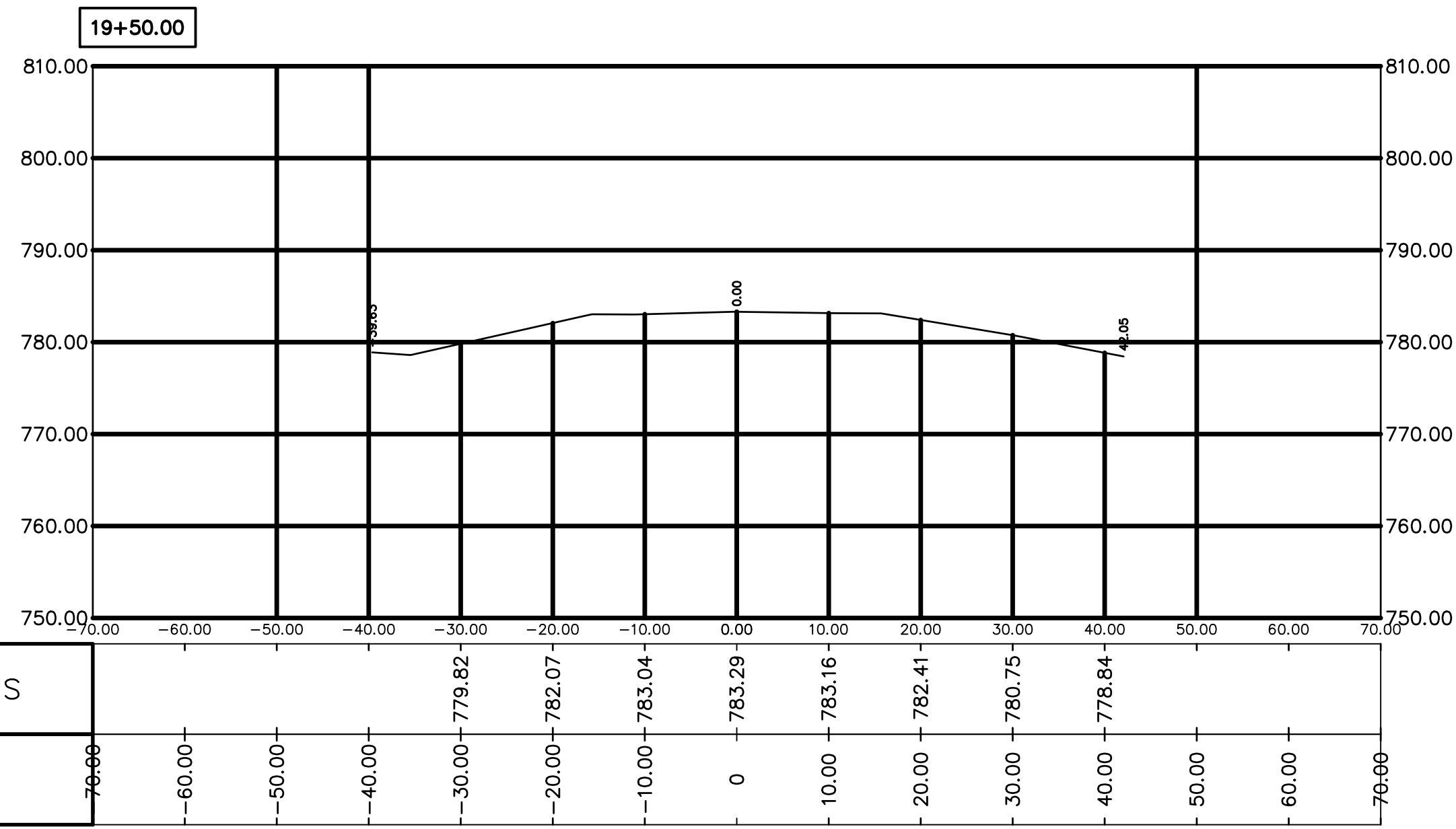


EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00

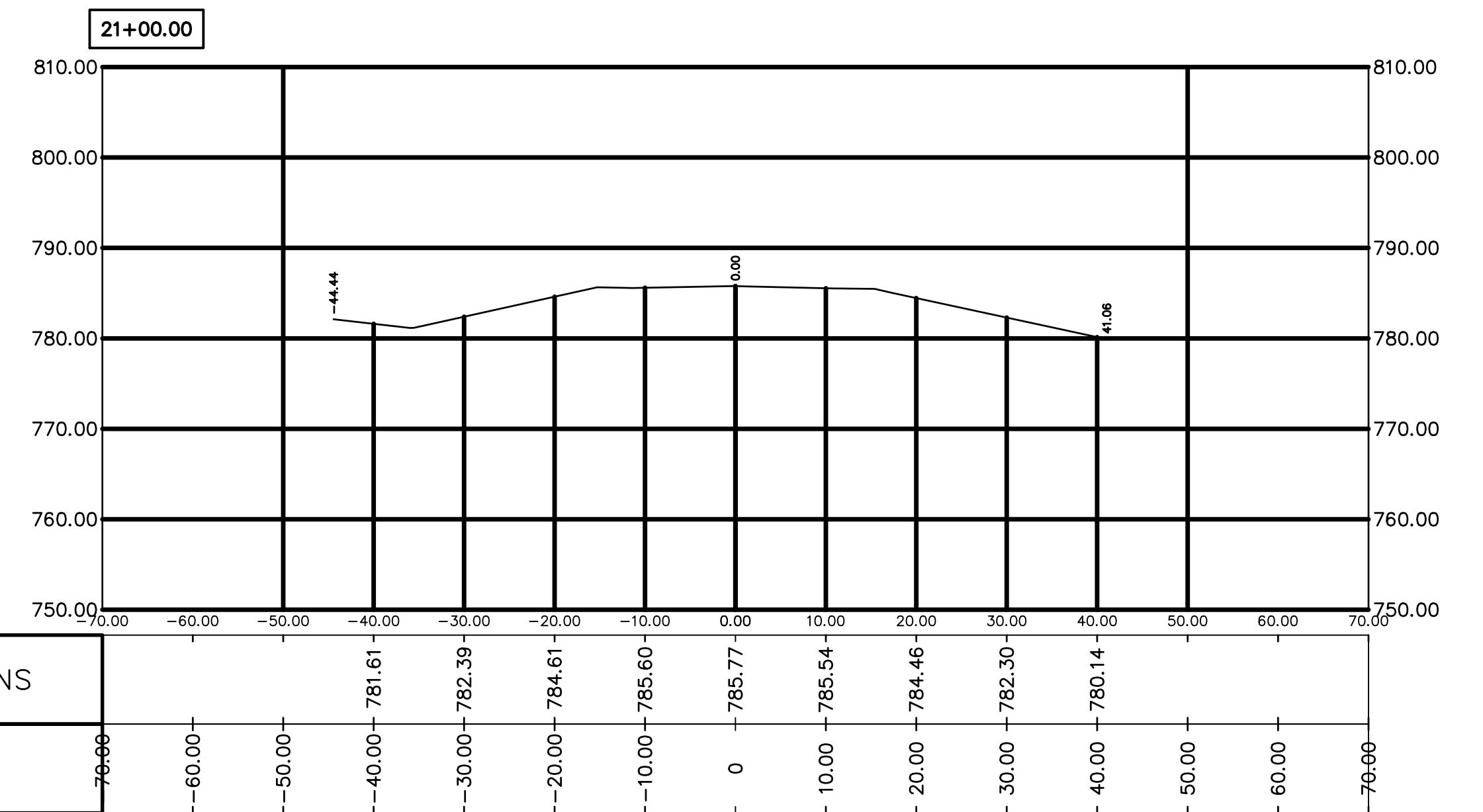
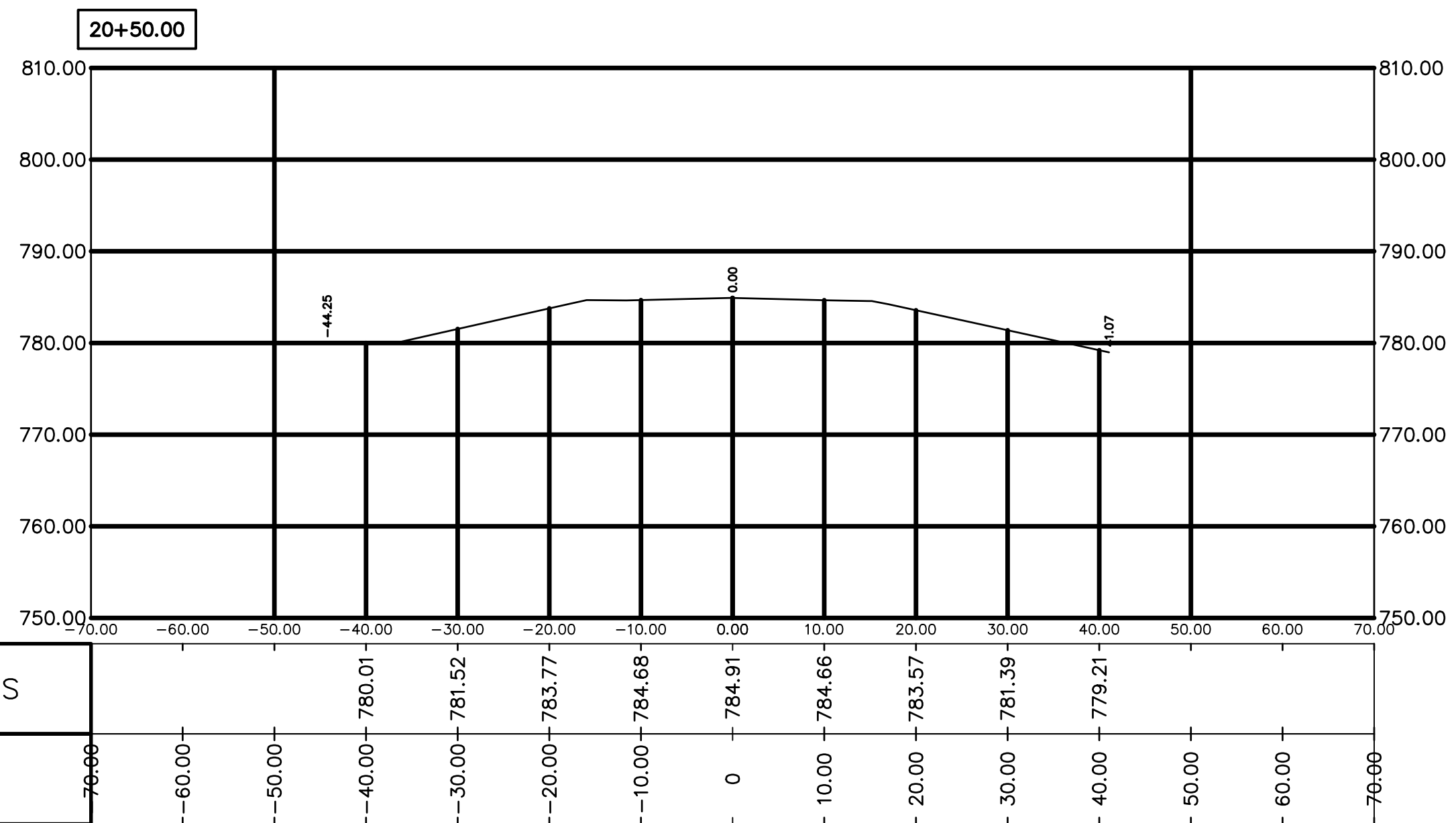
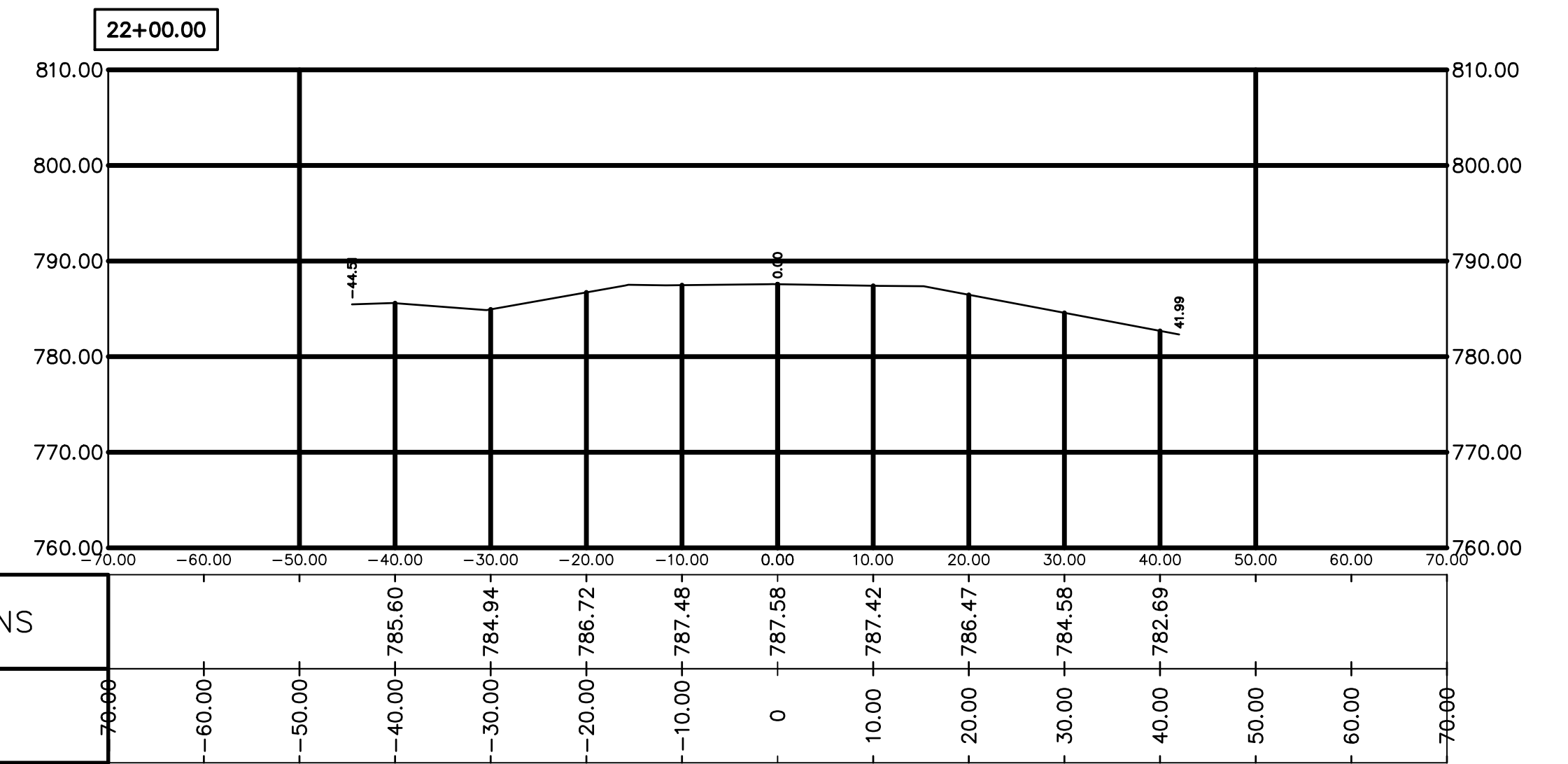
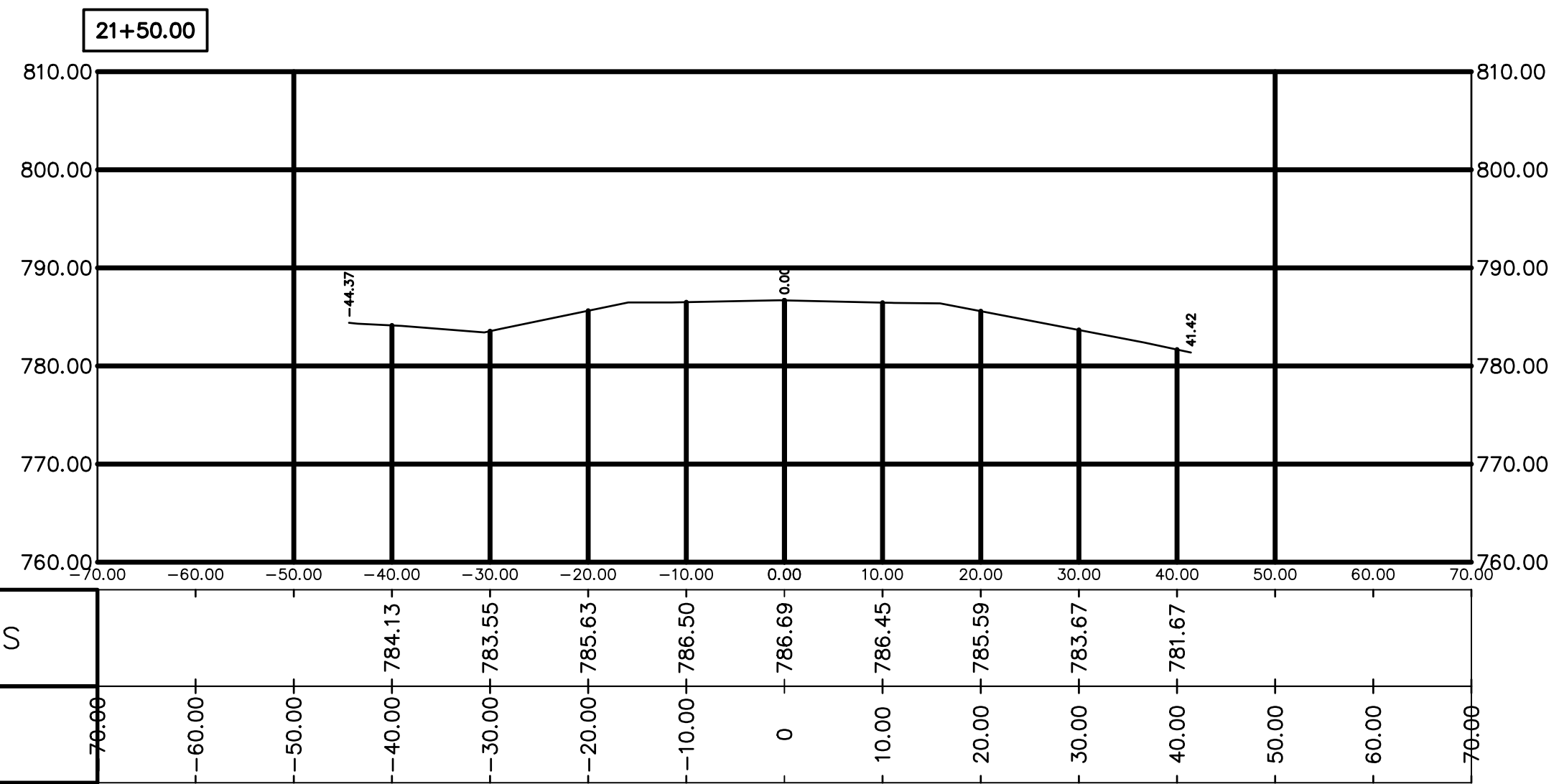


EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00

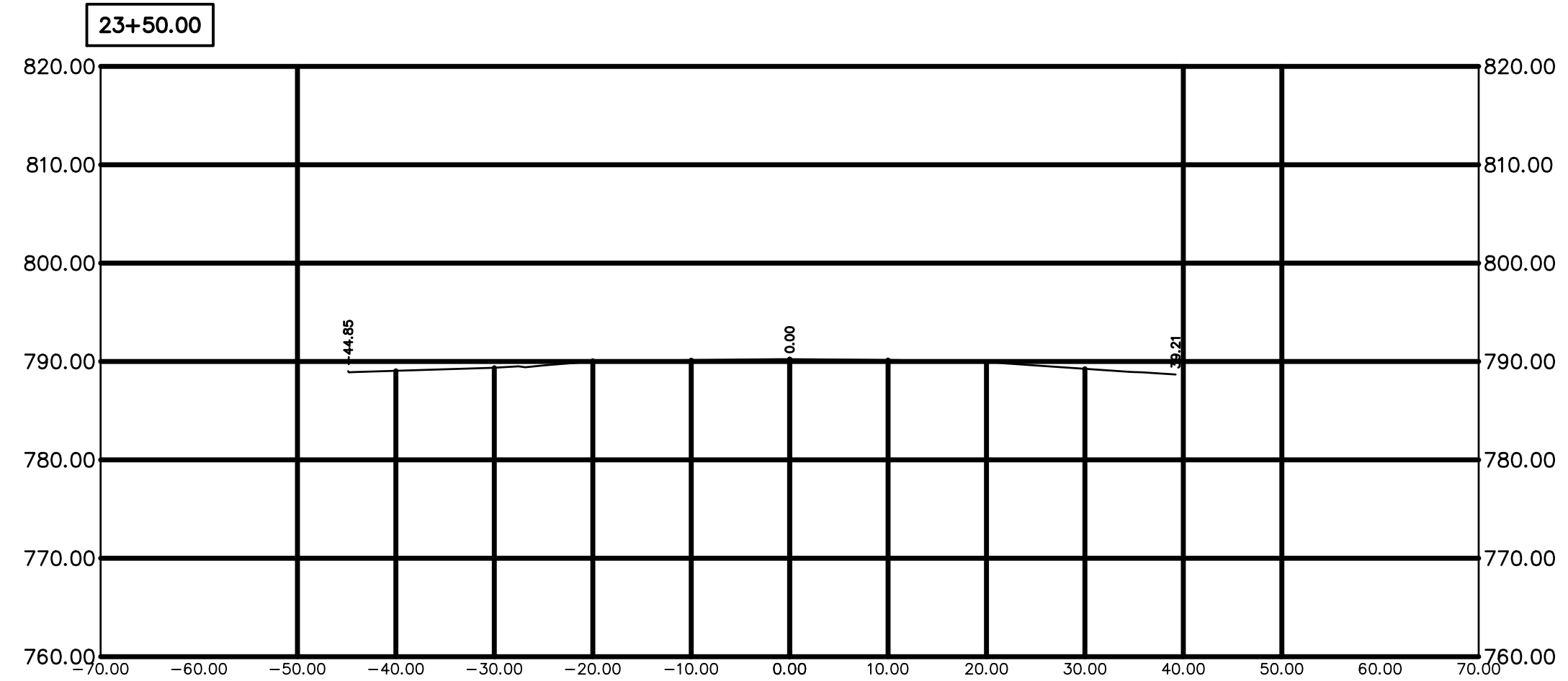
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (S) - 2/27/2024 11:20:36 AM, Eric



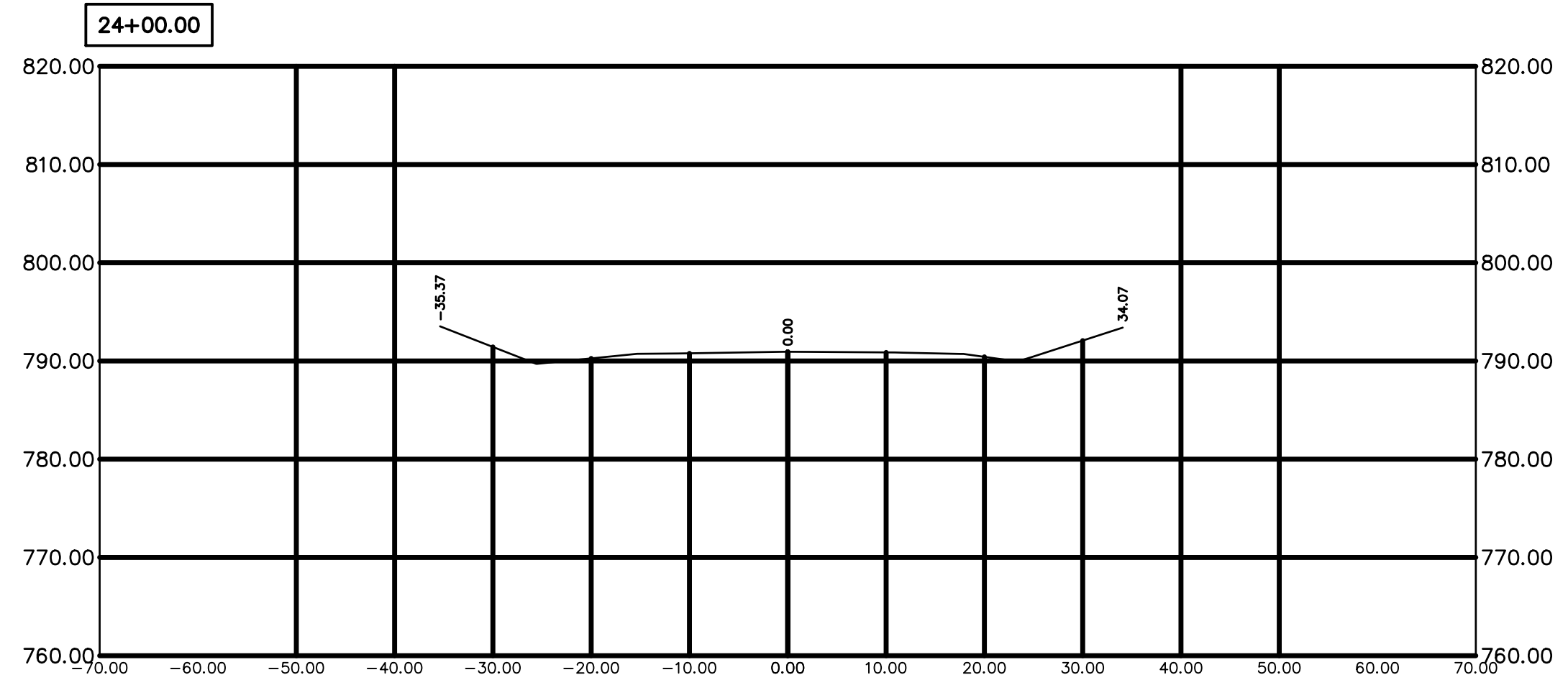
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (6) - 2/27/2024 11:20:56 AM Eric



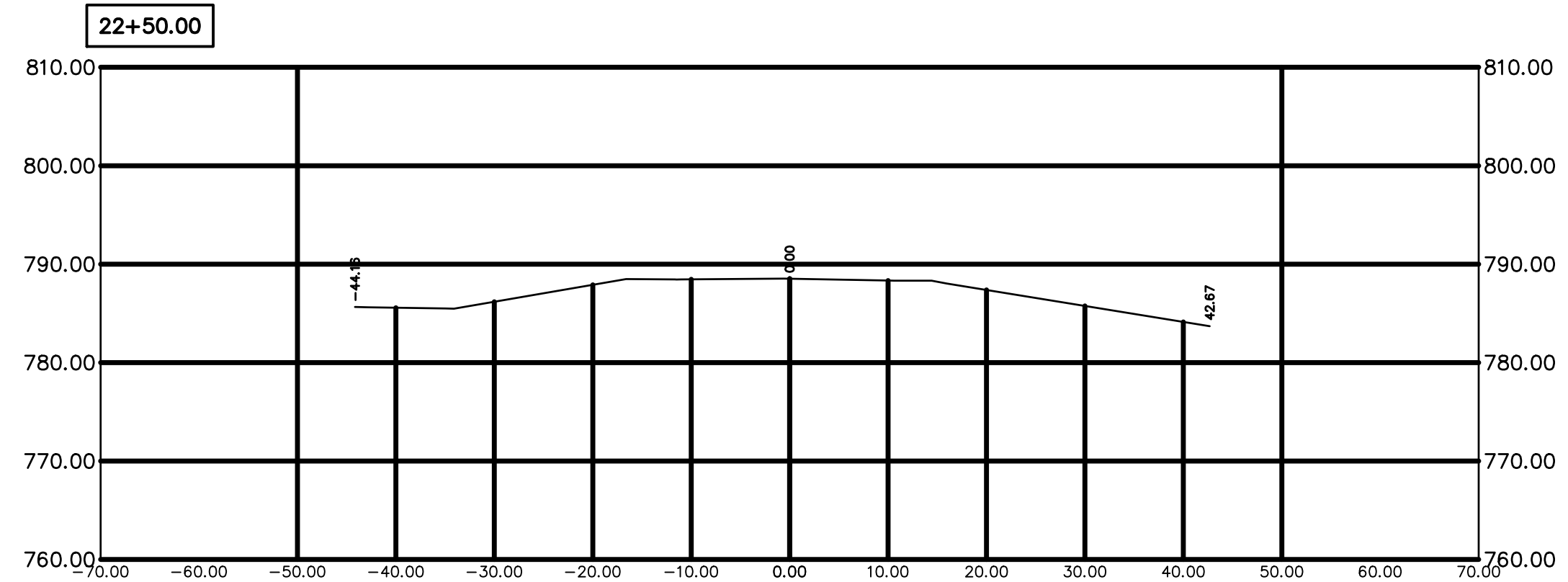
S:\CHARLEY\2022 Projects\118 Rd. PM Highway to Lakeshore\CAD\118 - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (T) - 2/27/2024 11:21:16 AM L Eric



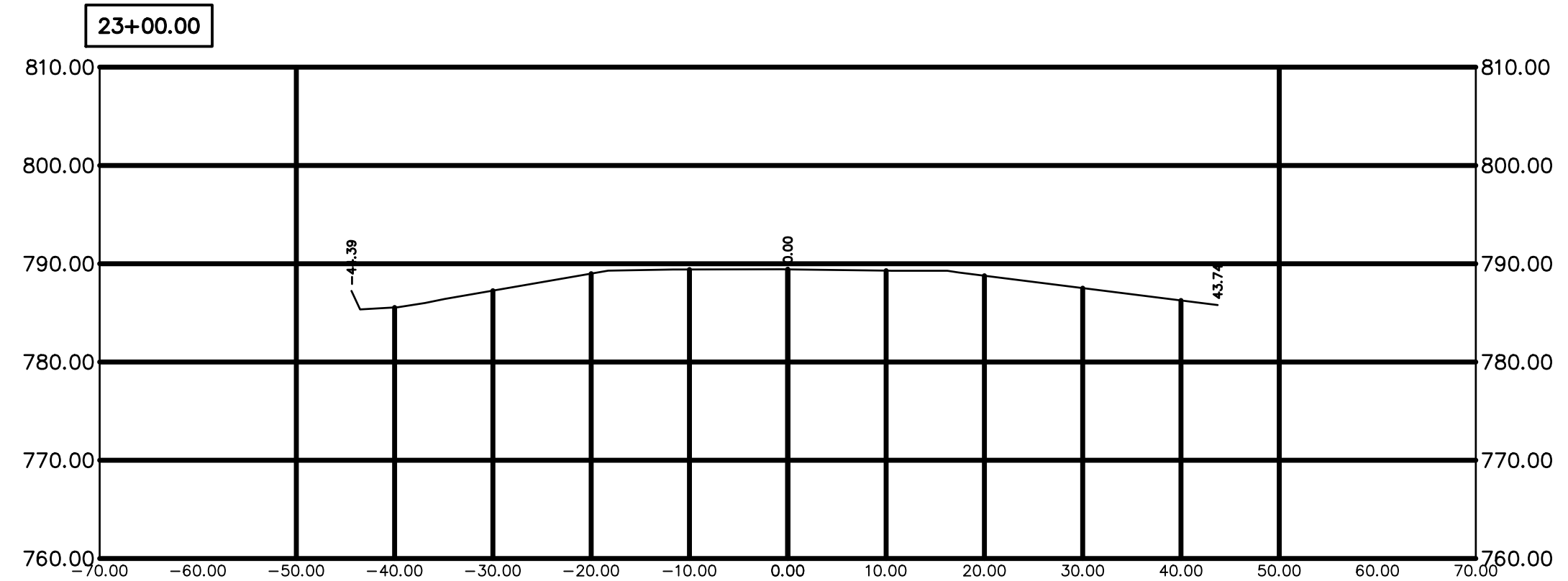
EXISTING ELEVATIONS	766.66	766.66	766.66	789.06	789.37	790.08	790.15	790.23	790.16	789.96	789.26	788.21	788.21	788.21	788.21	788.21
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00	



EXISTING ELEVATIONS	766.66	766.66	766.66	766.66	791.43	790.26	790.78	790.94	790.87	790.42	792.08	792.08	792.08	792.08	792.08
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



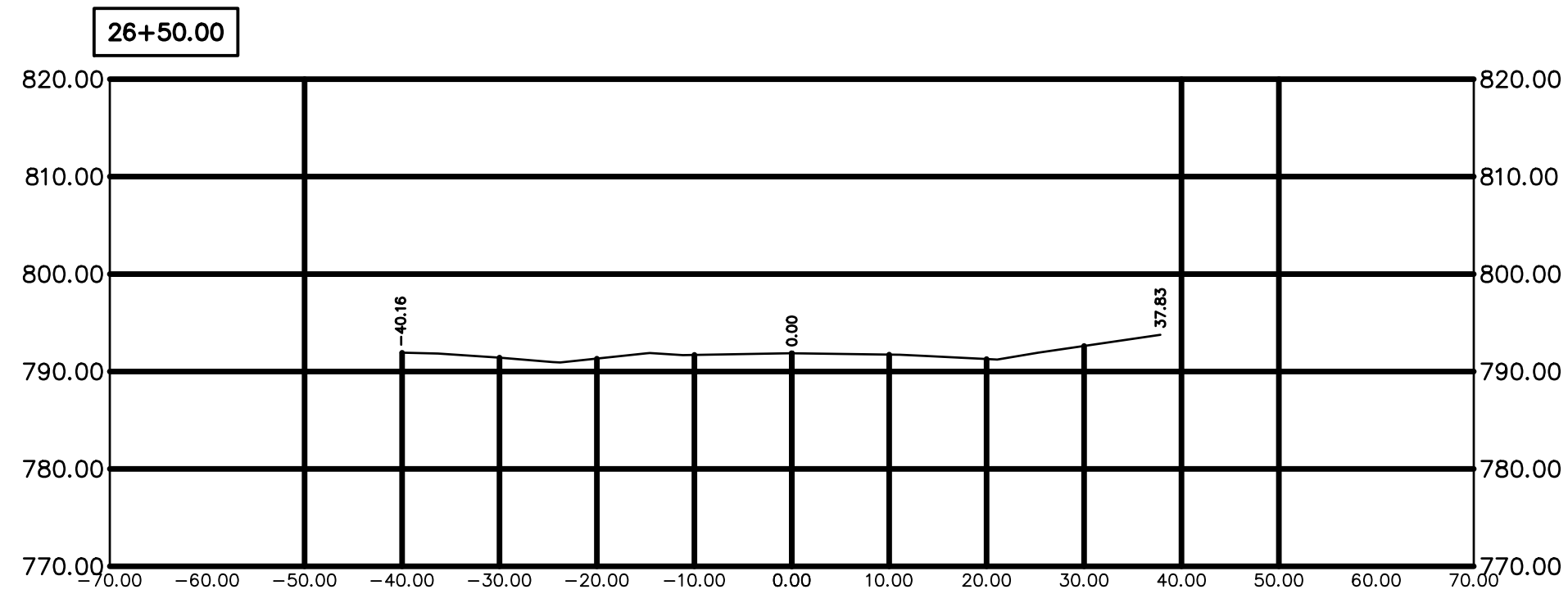
EXISTING ELEVATIONS	766.66	766.66	766.66	785.58	786.18	787.90	788.46	788.52	788.34	787.38	785.76	784.14	784.14	784.14	784.14
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



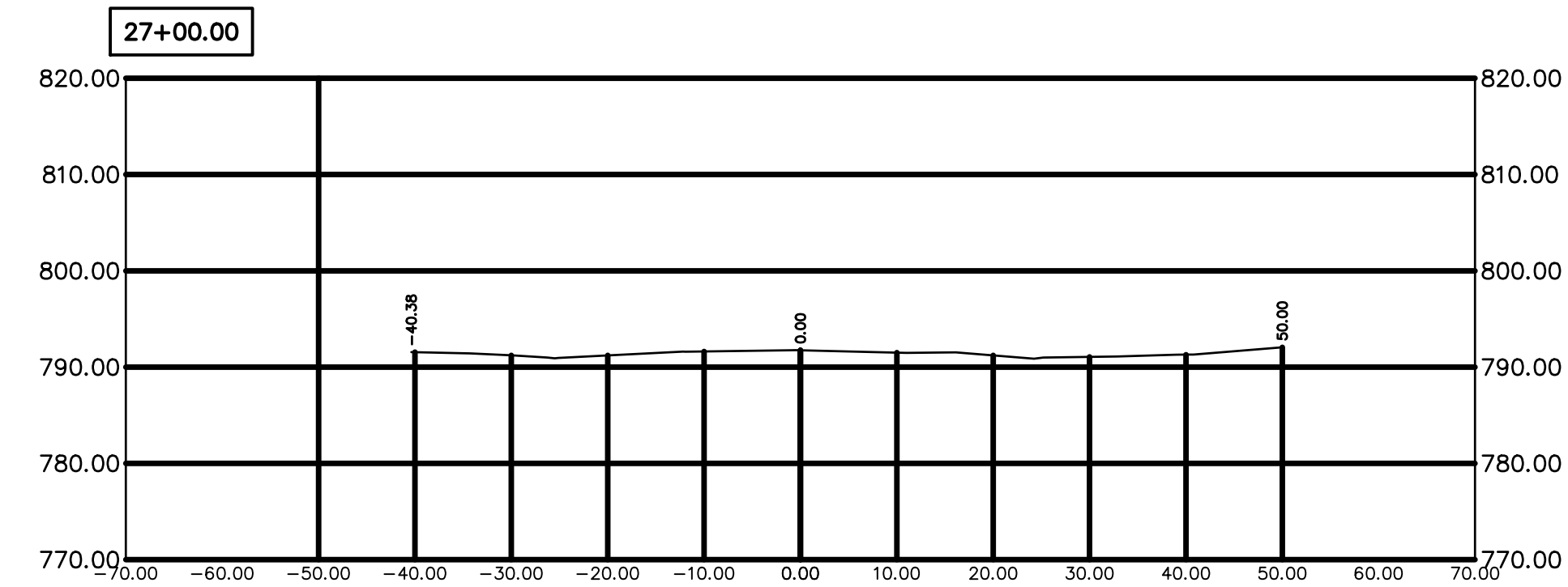
EXISTING ELEVATIONS	766.66	766.66	766.66	785.55	787.26	788.99	789.41	789.42	789.29	788.77	787.52	786.26	786.26	786.26	786.26
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



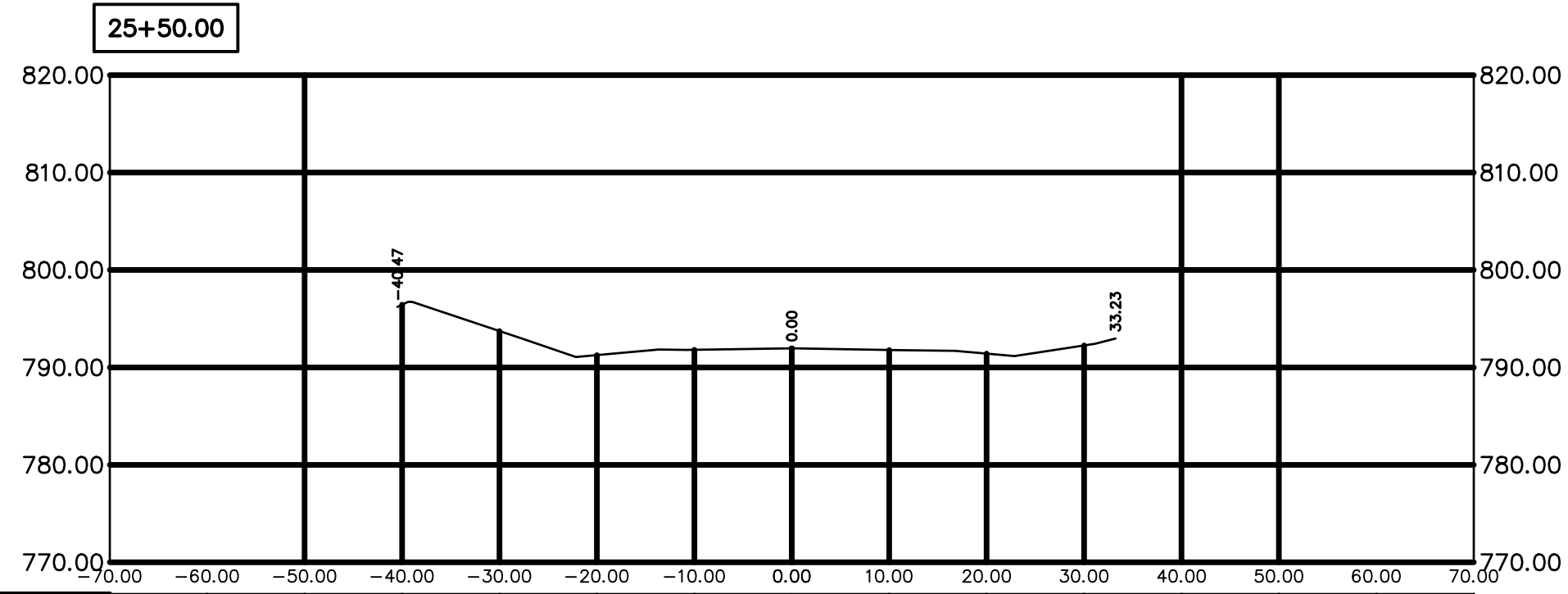
S:\CHARLEY 2022 Projects\118 Rd. PM Highway to Lakeshore\CAD\118 - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (10) - 2/27/2024 11:22:17 AM - Eric



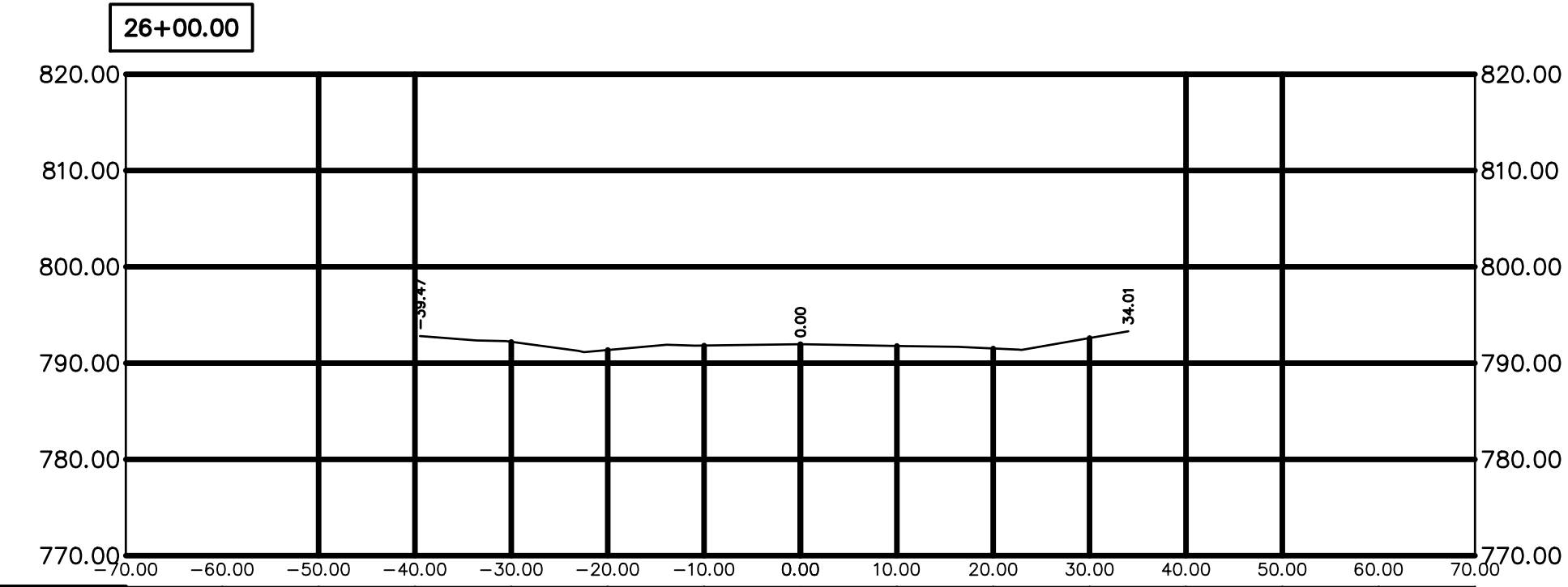
EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	-76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66



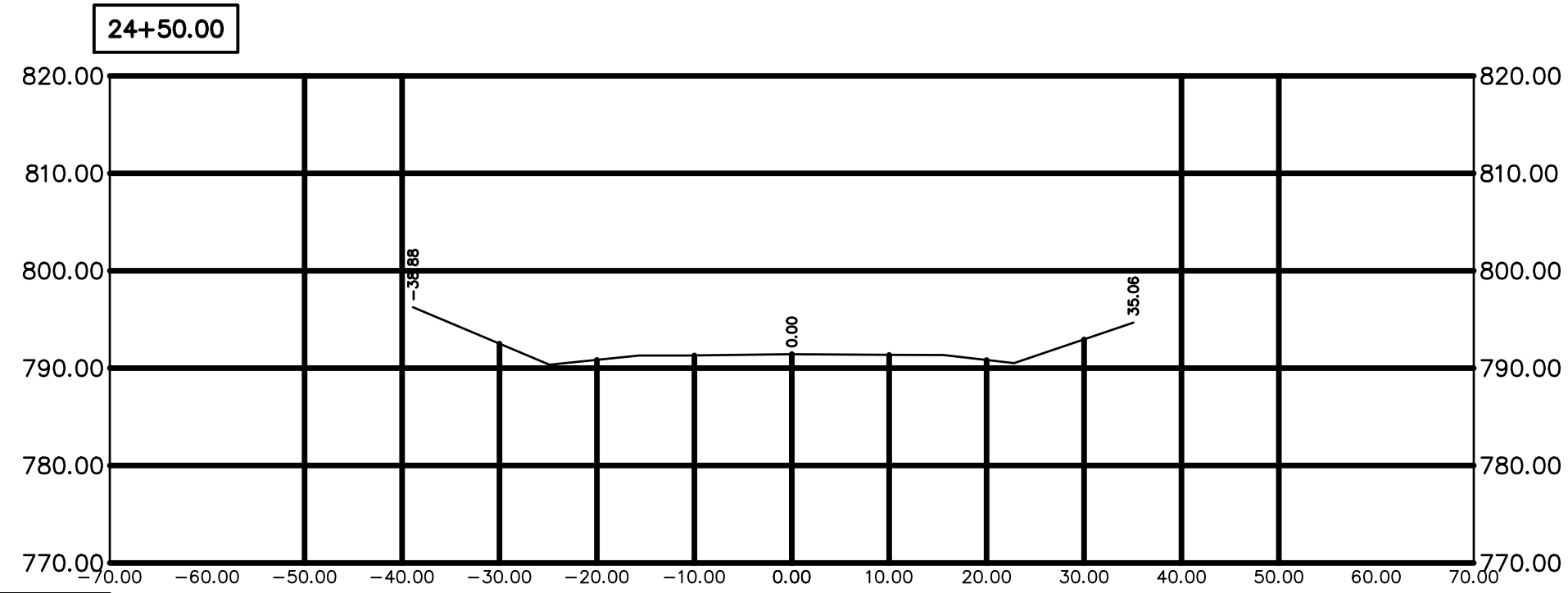
EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	-76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66



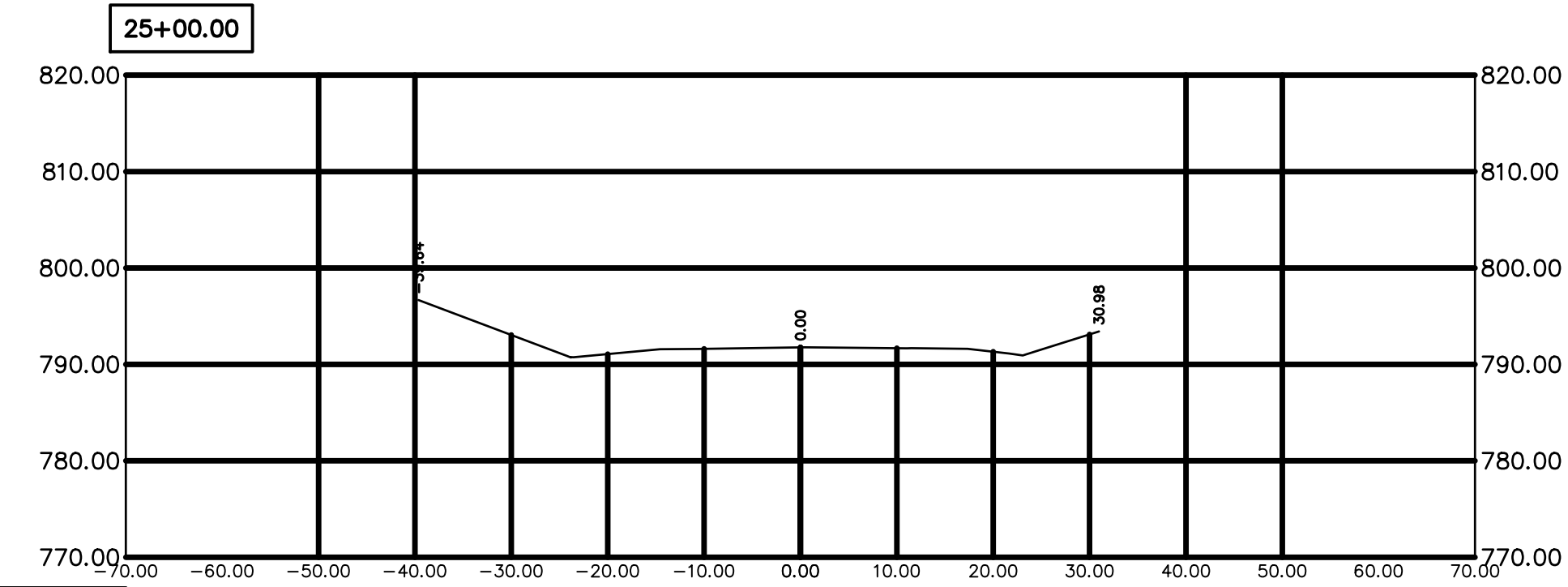
EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	-76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66



EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	-76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

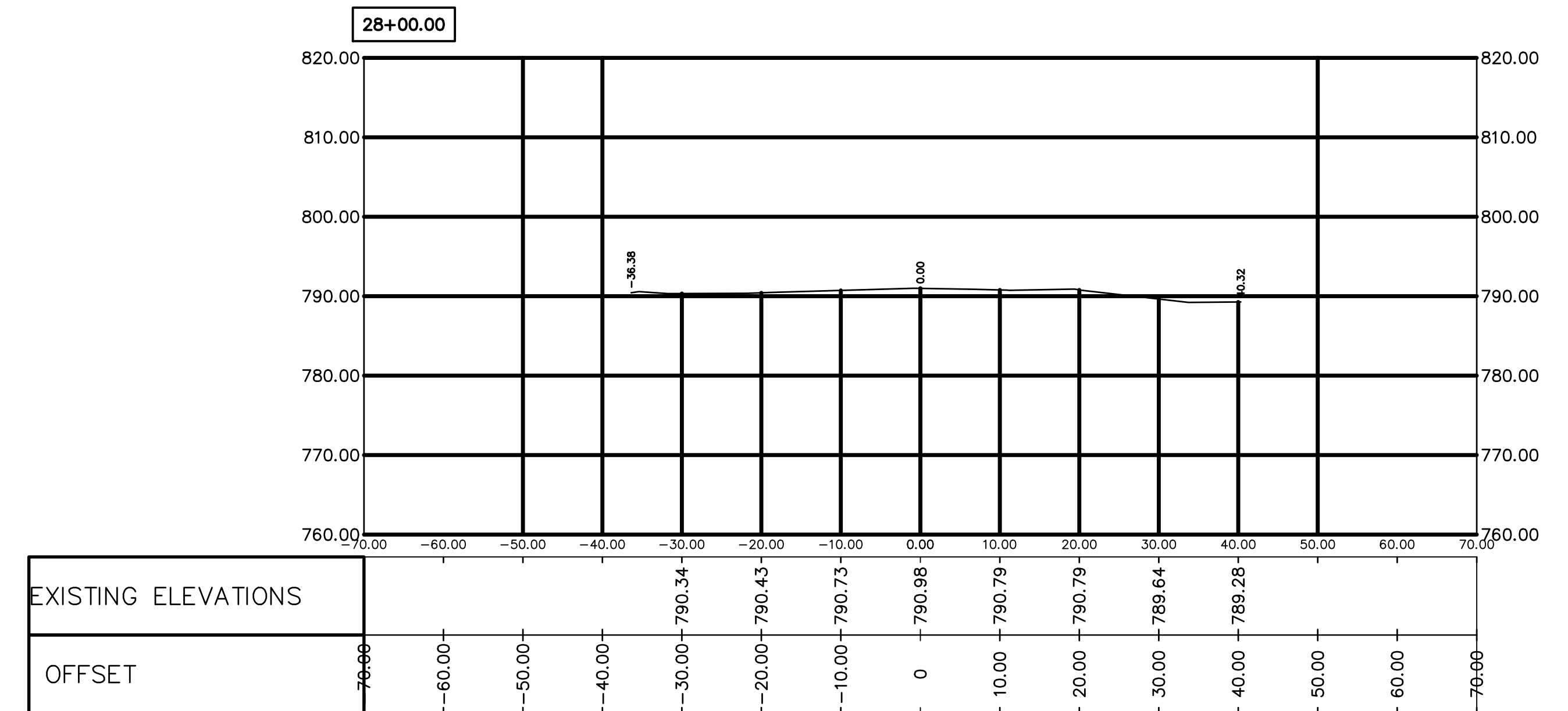
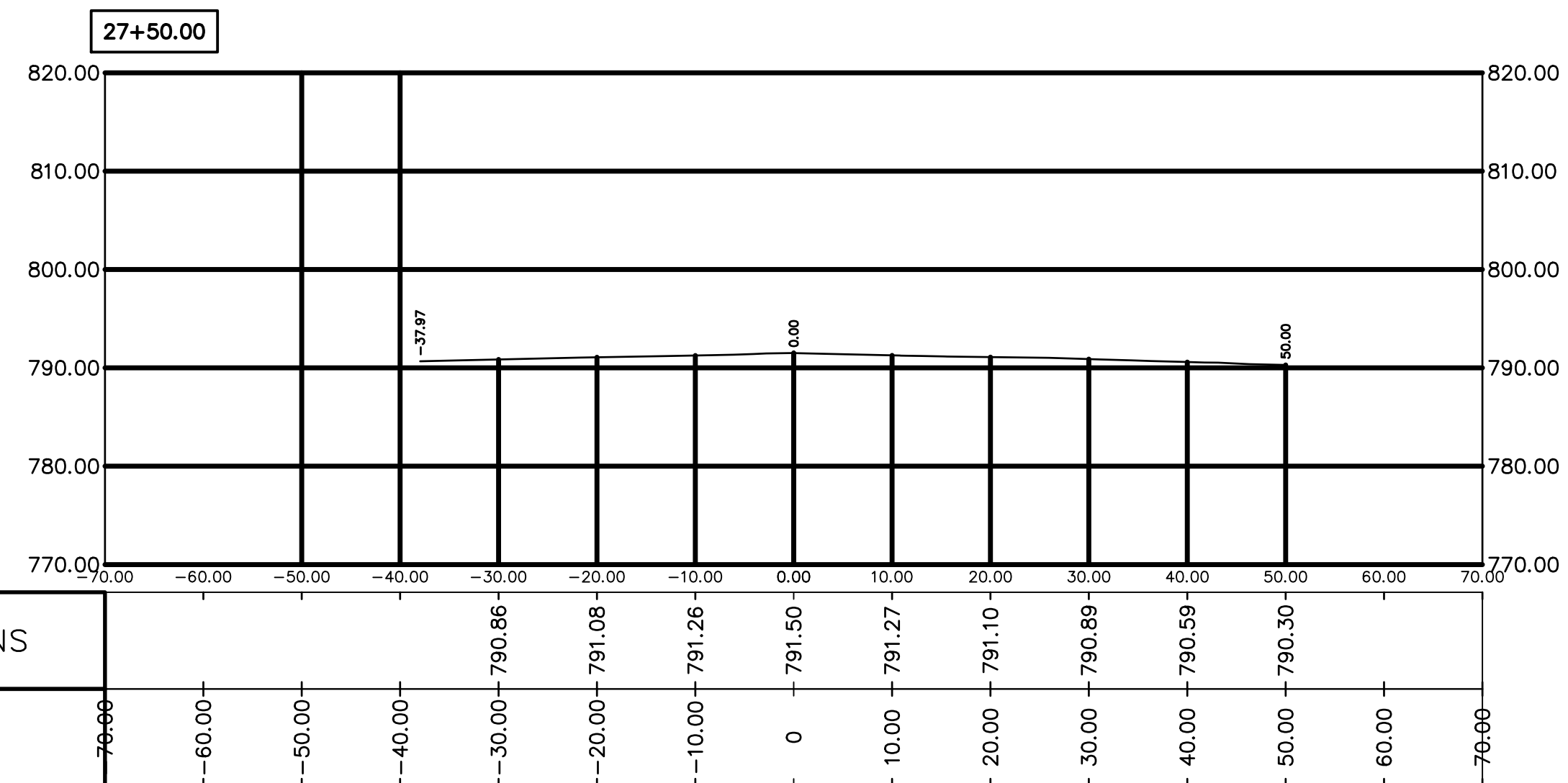
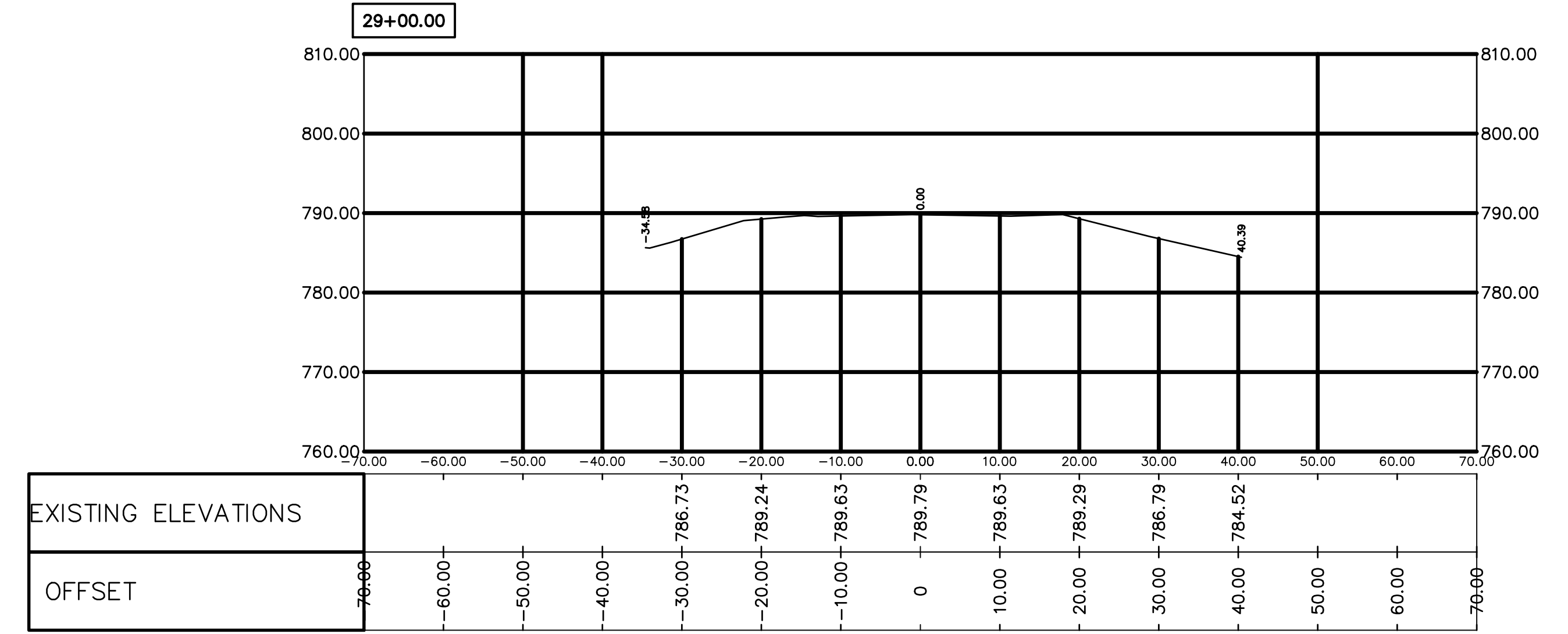
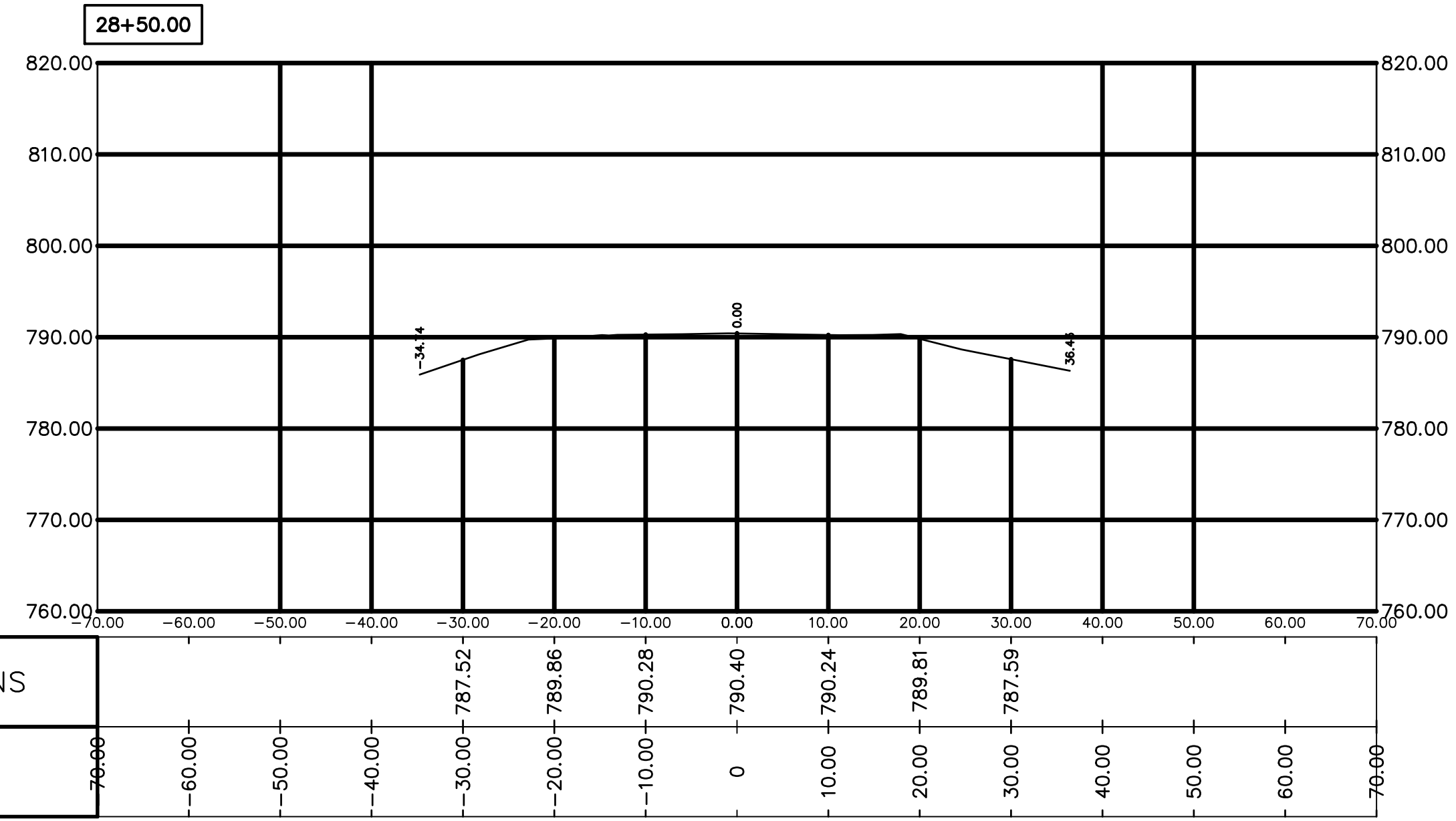


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	-76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

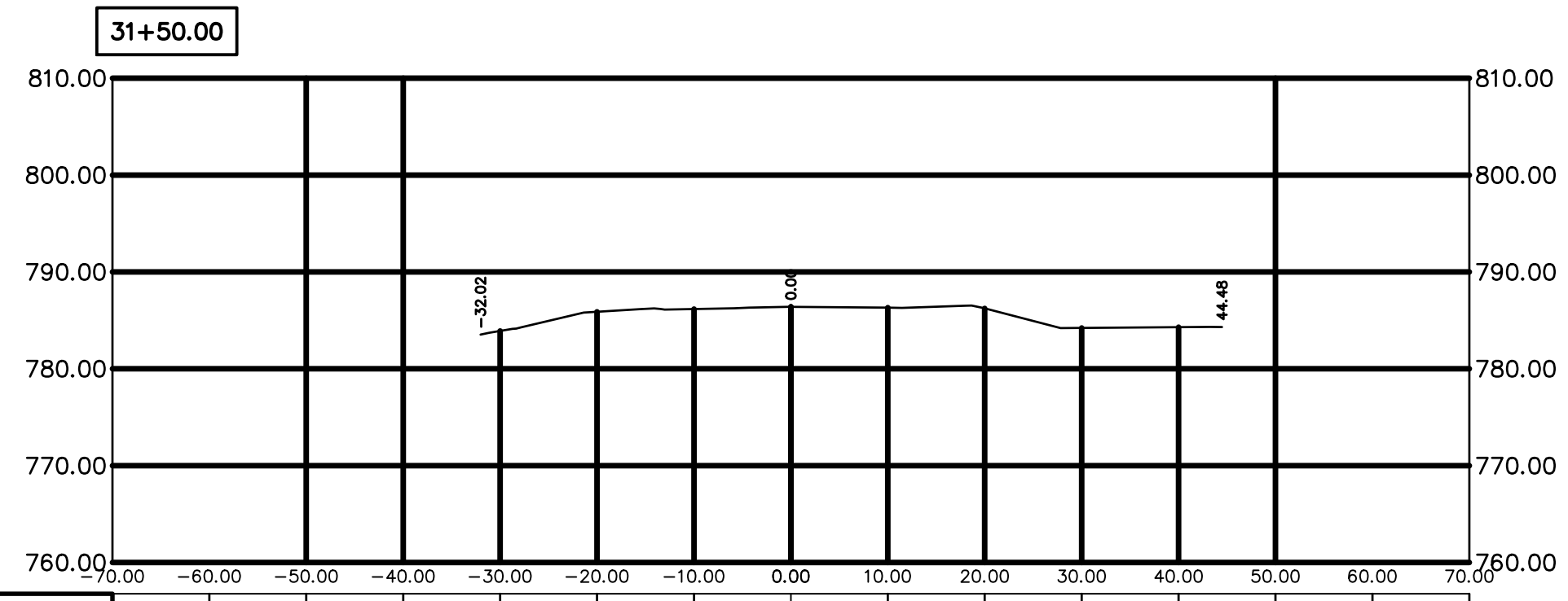


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	-76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

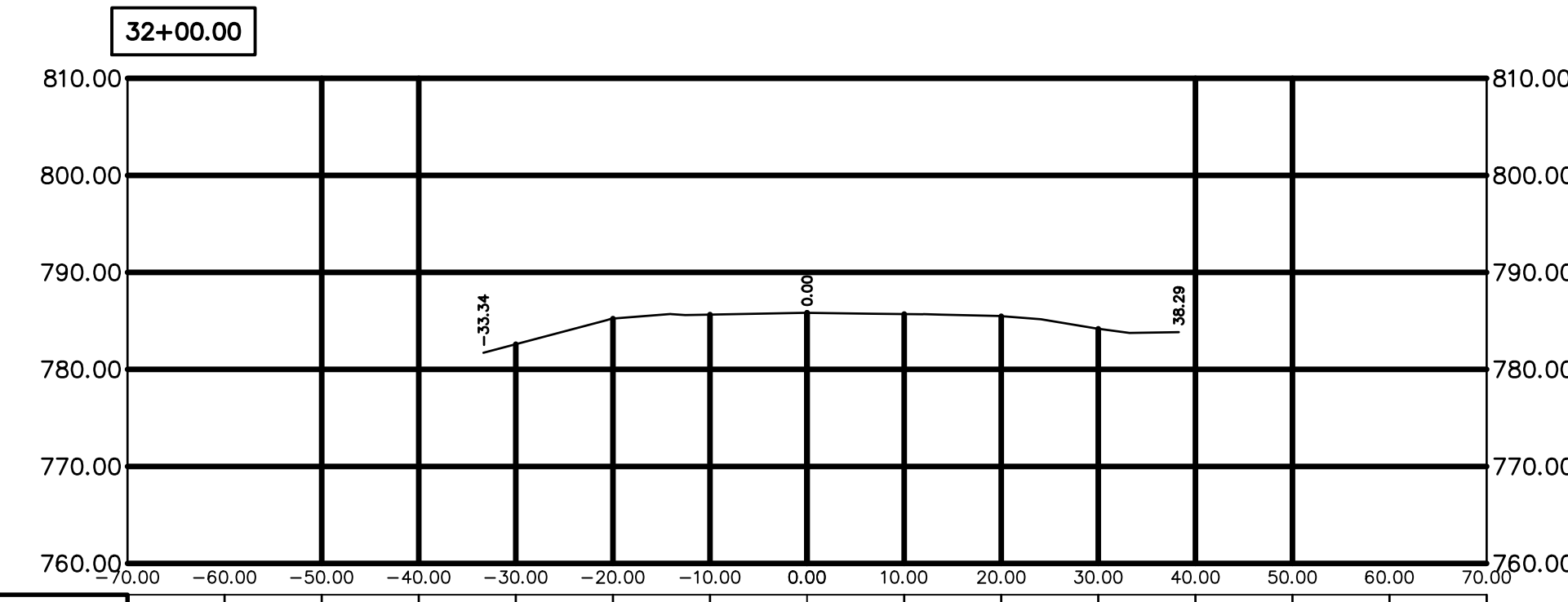
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (9) - 2/27/2024 11:21:57 AM L Eric



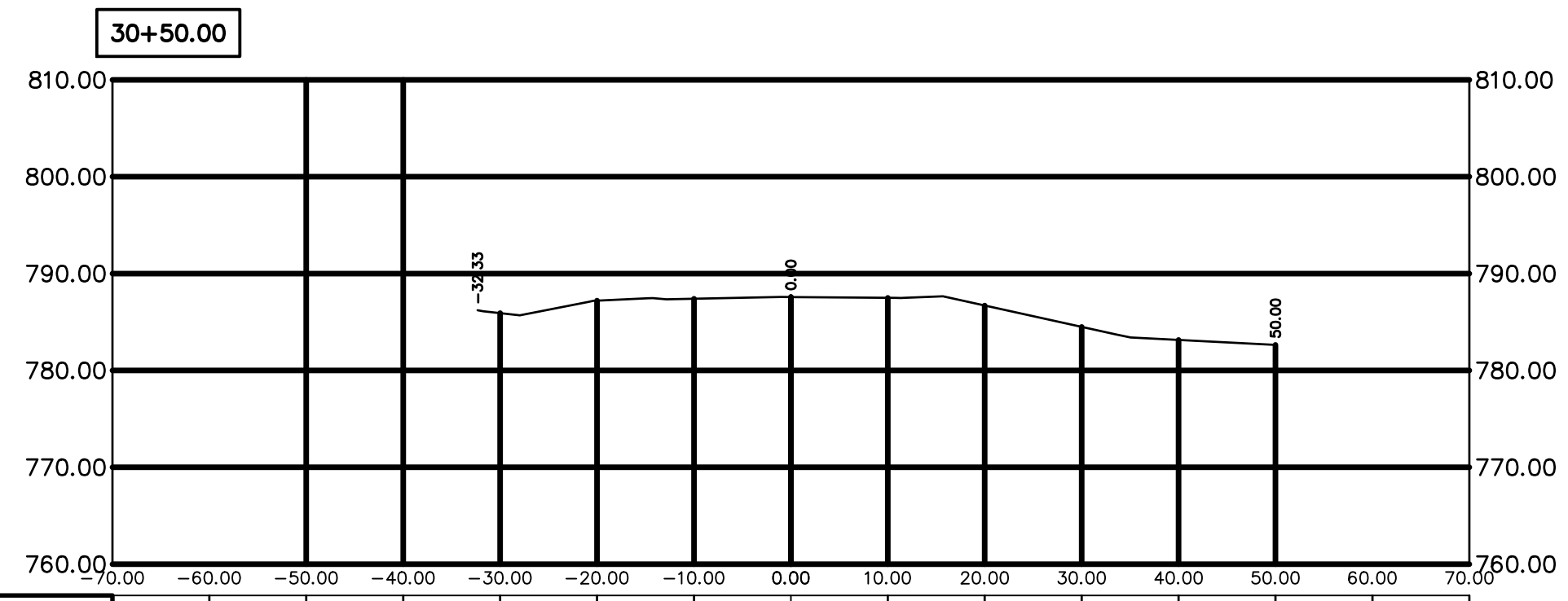
S:\CHARLEY 2022 Projects\1818 Rd. PM Highway to Lakeshore\CAD\1818 - PM HWY to Lakeshore BASE - DESIGN 2-20-2024.dwg - CSI (8) - 2/27/2024 11:21:36 AM Eric



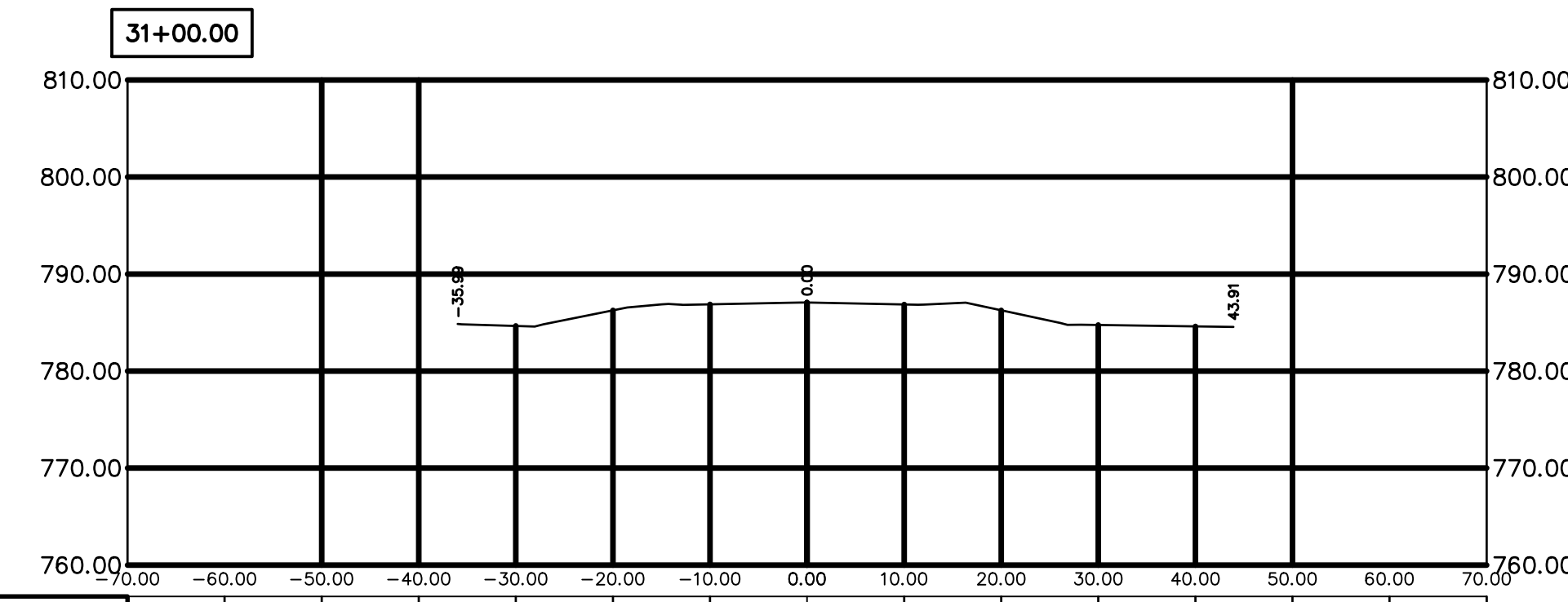
EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



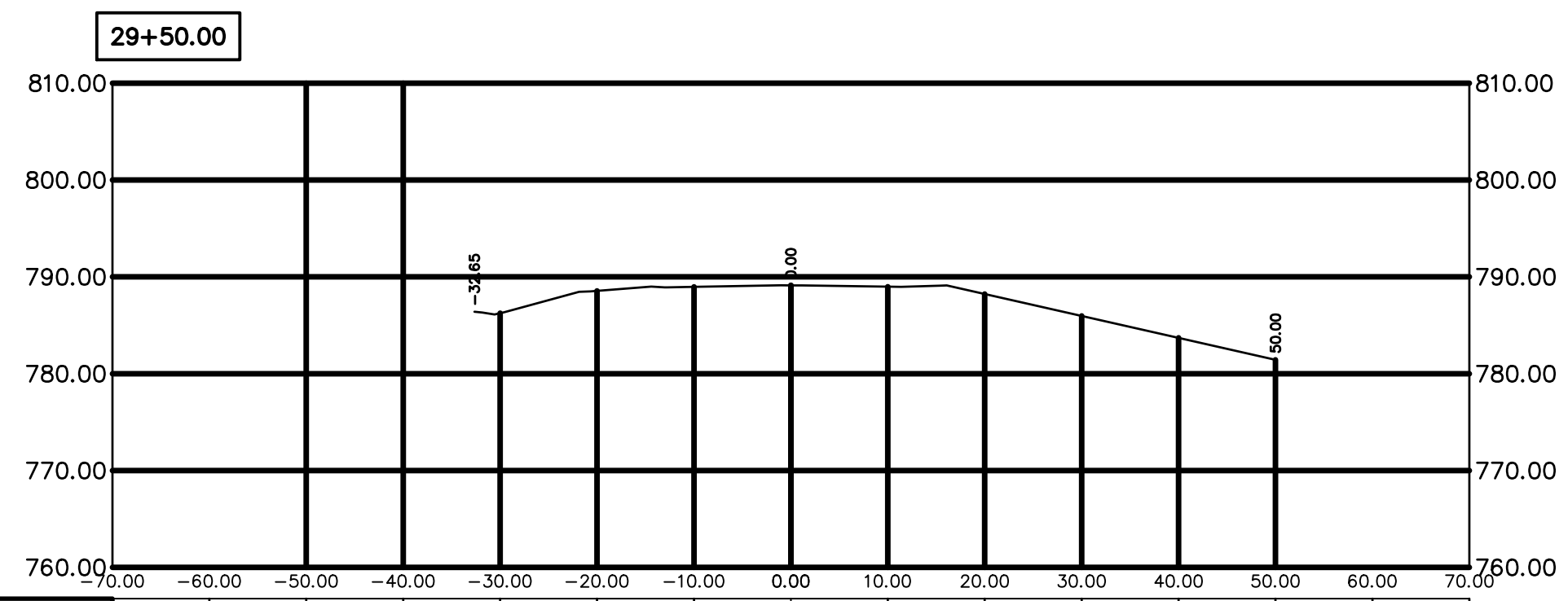
EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



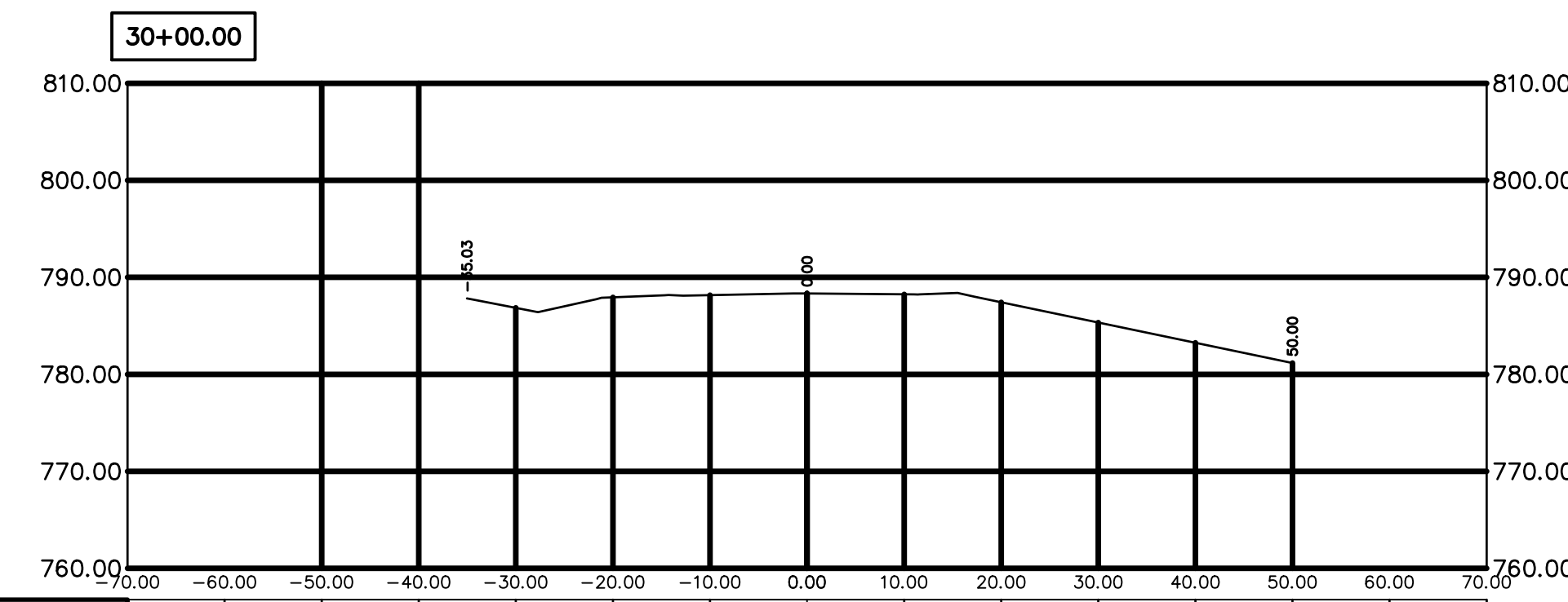
EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00

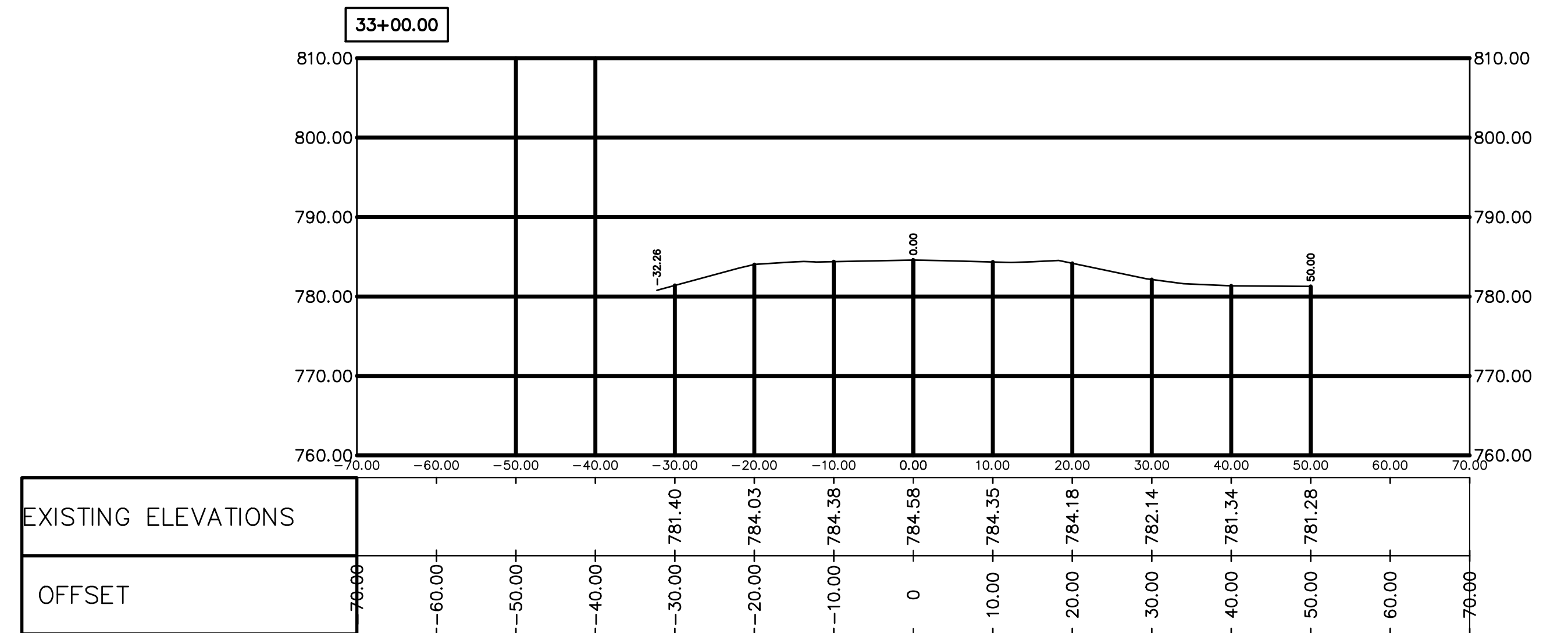
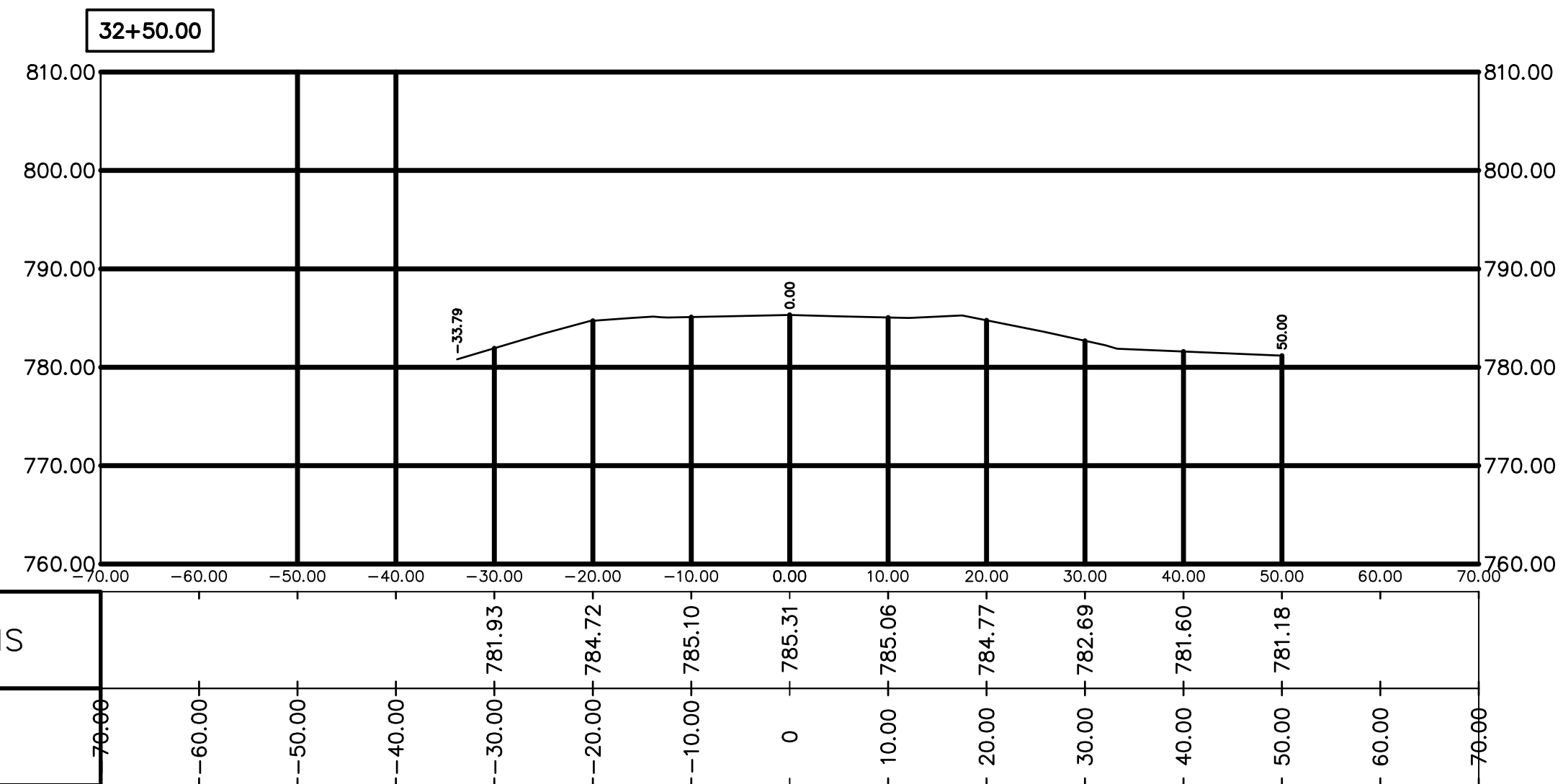
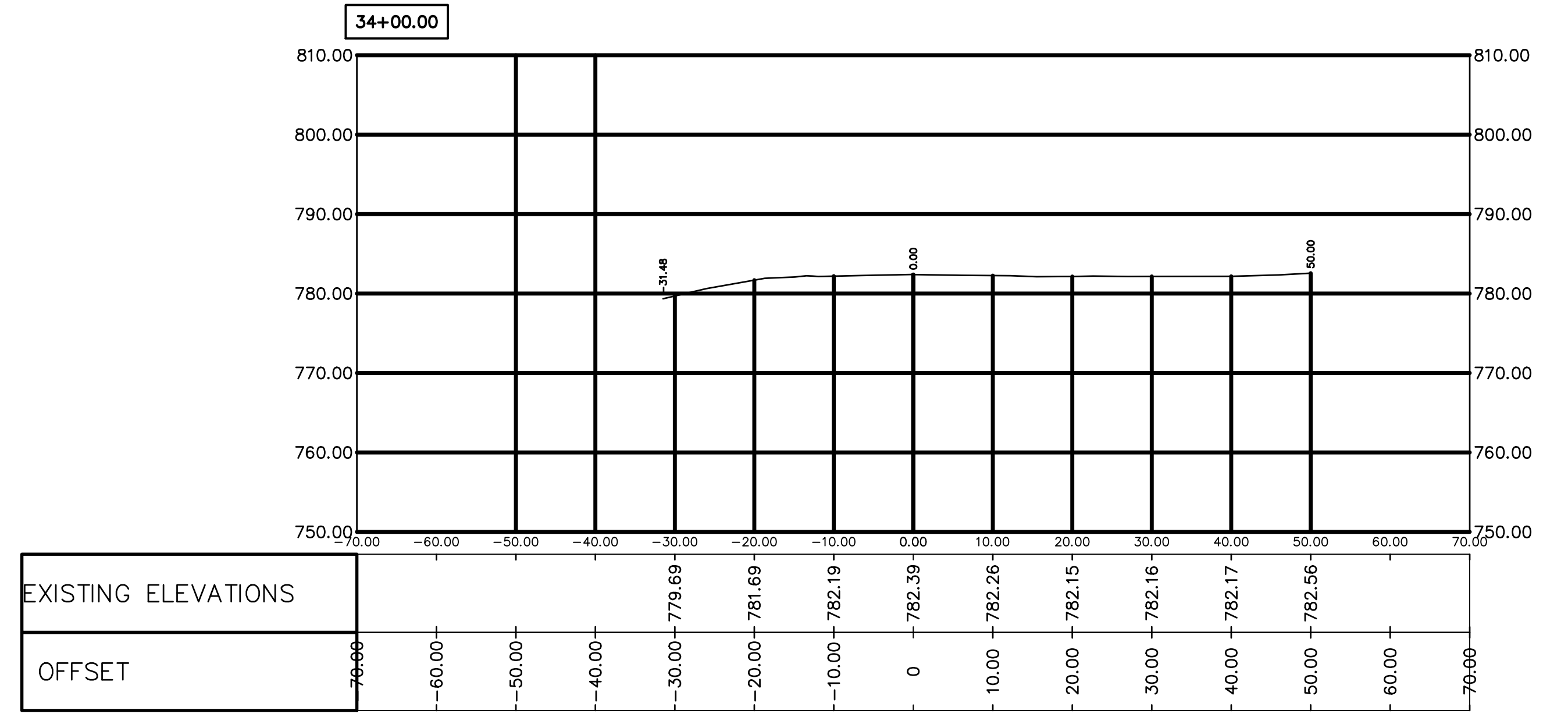
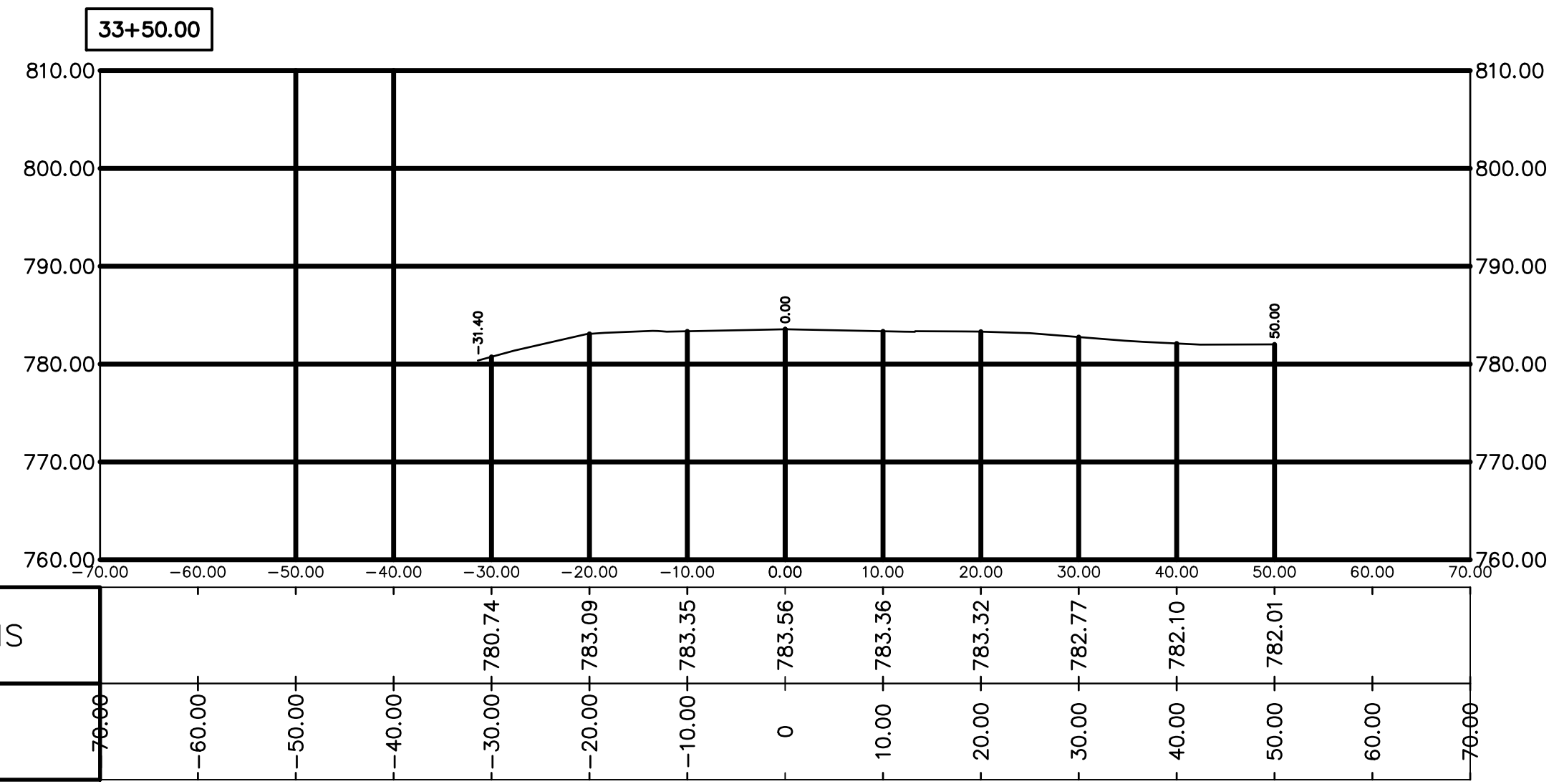


EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00

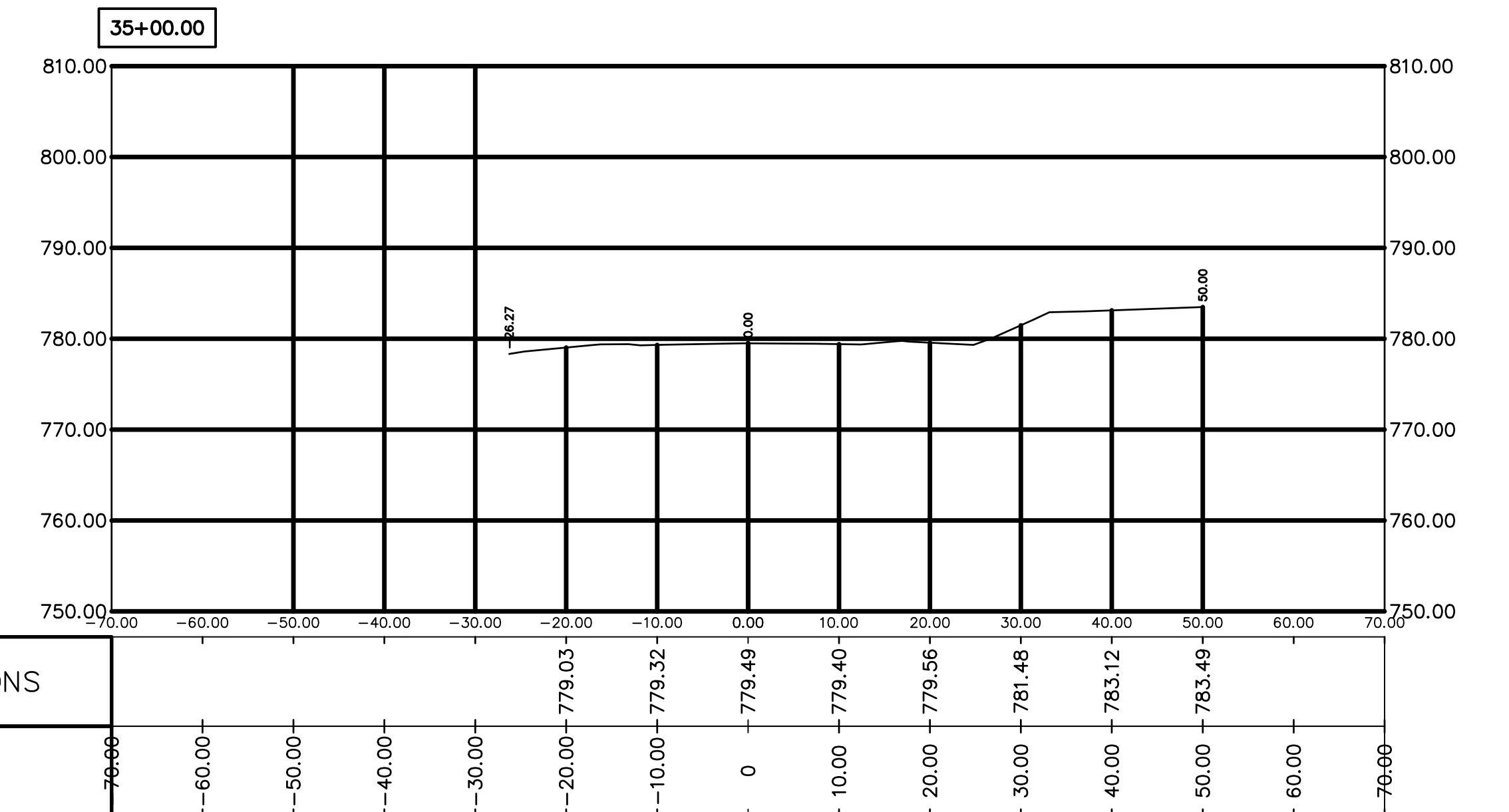
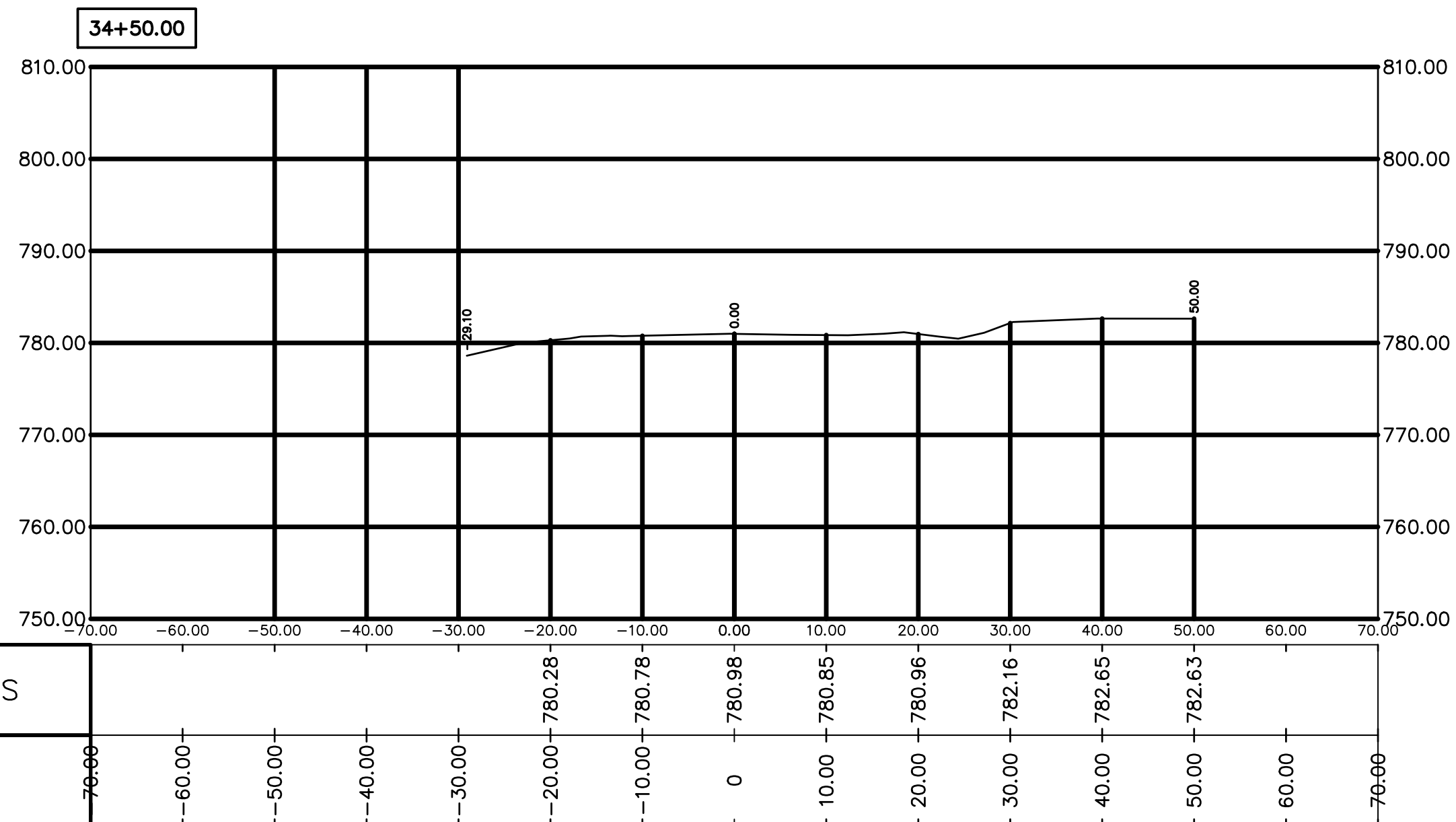
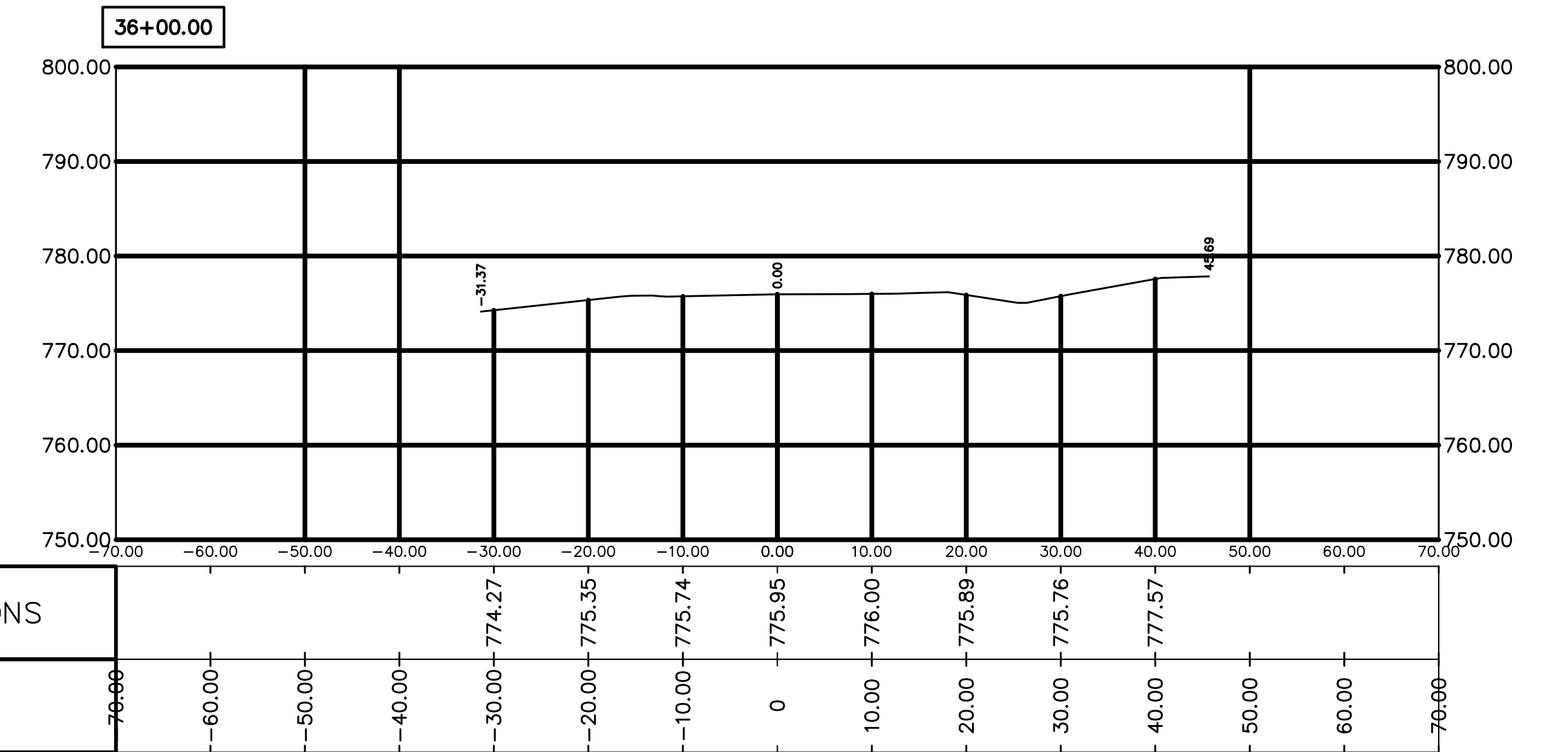
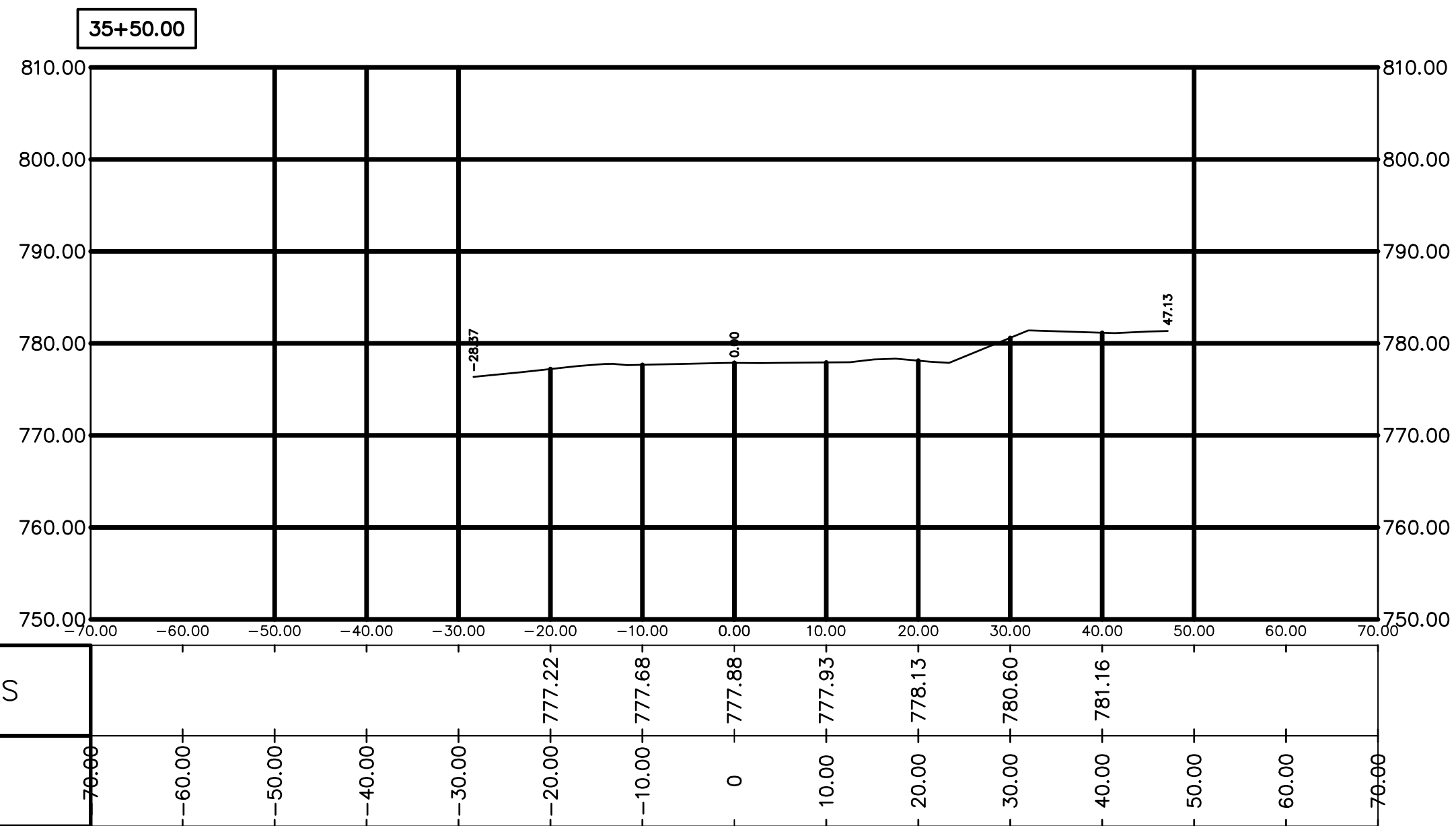
OF PART OF



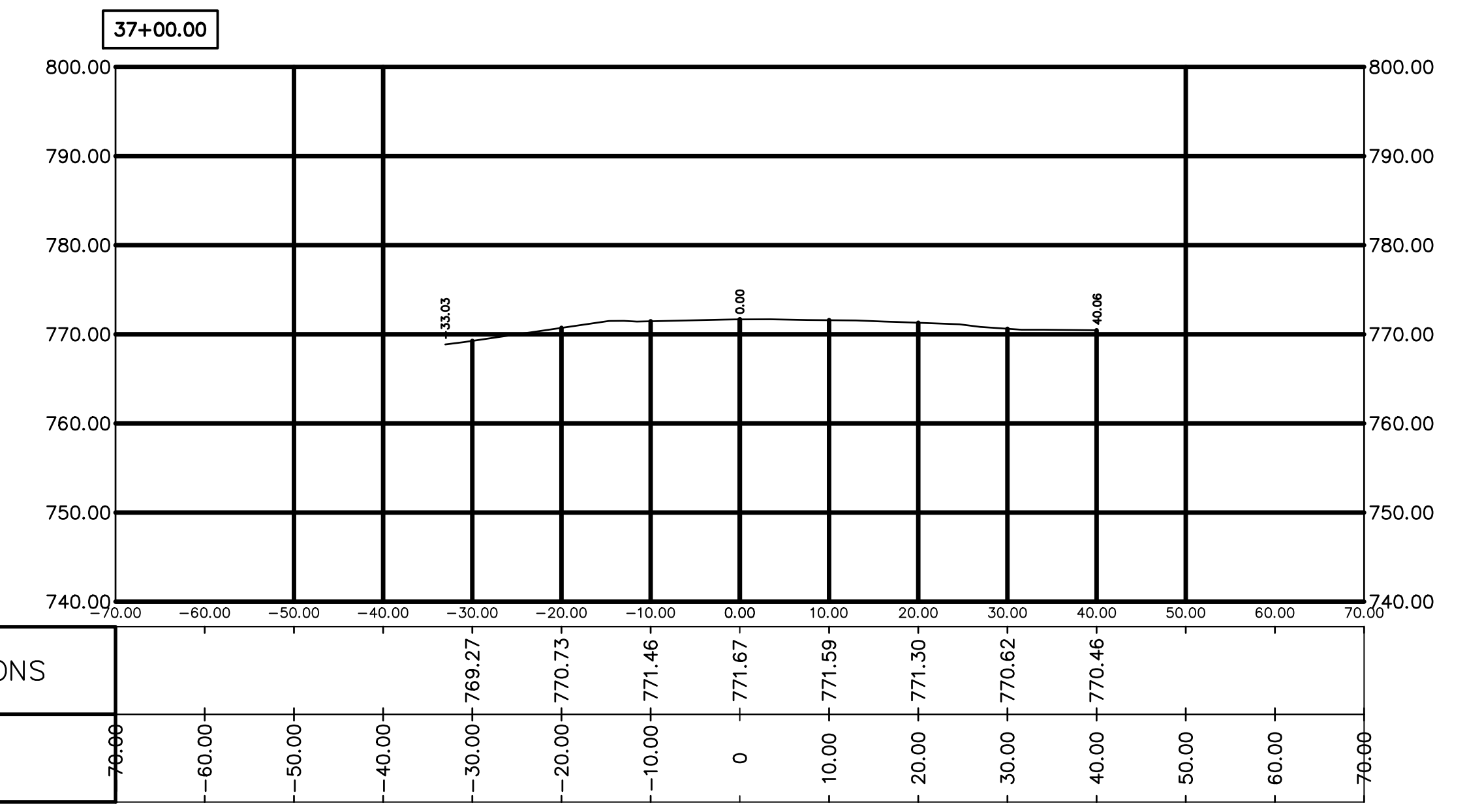
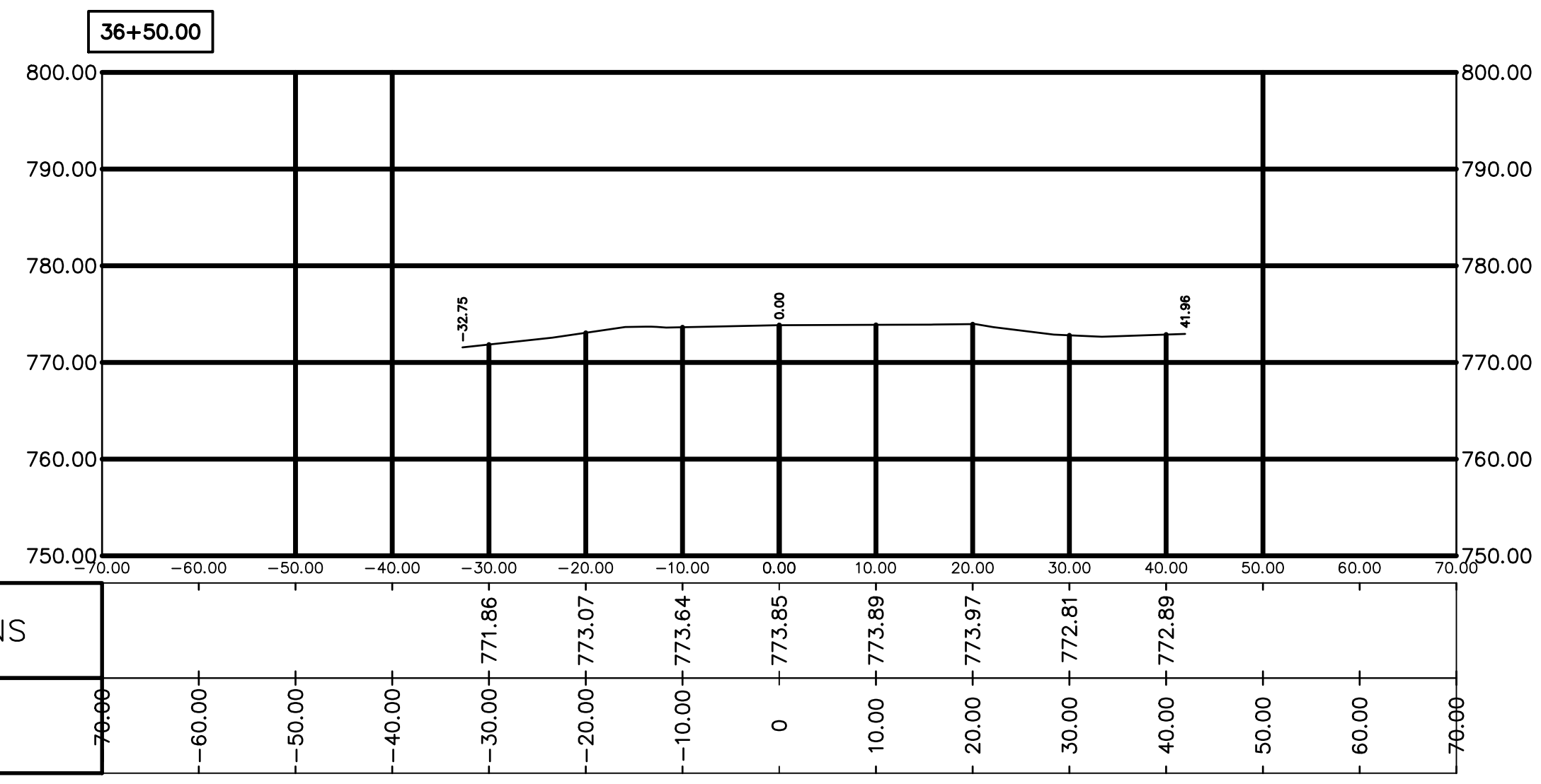
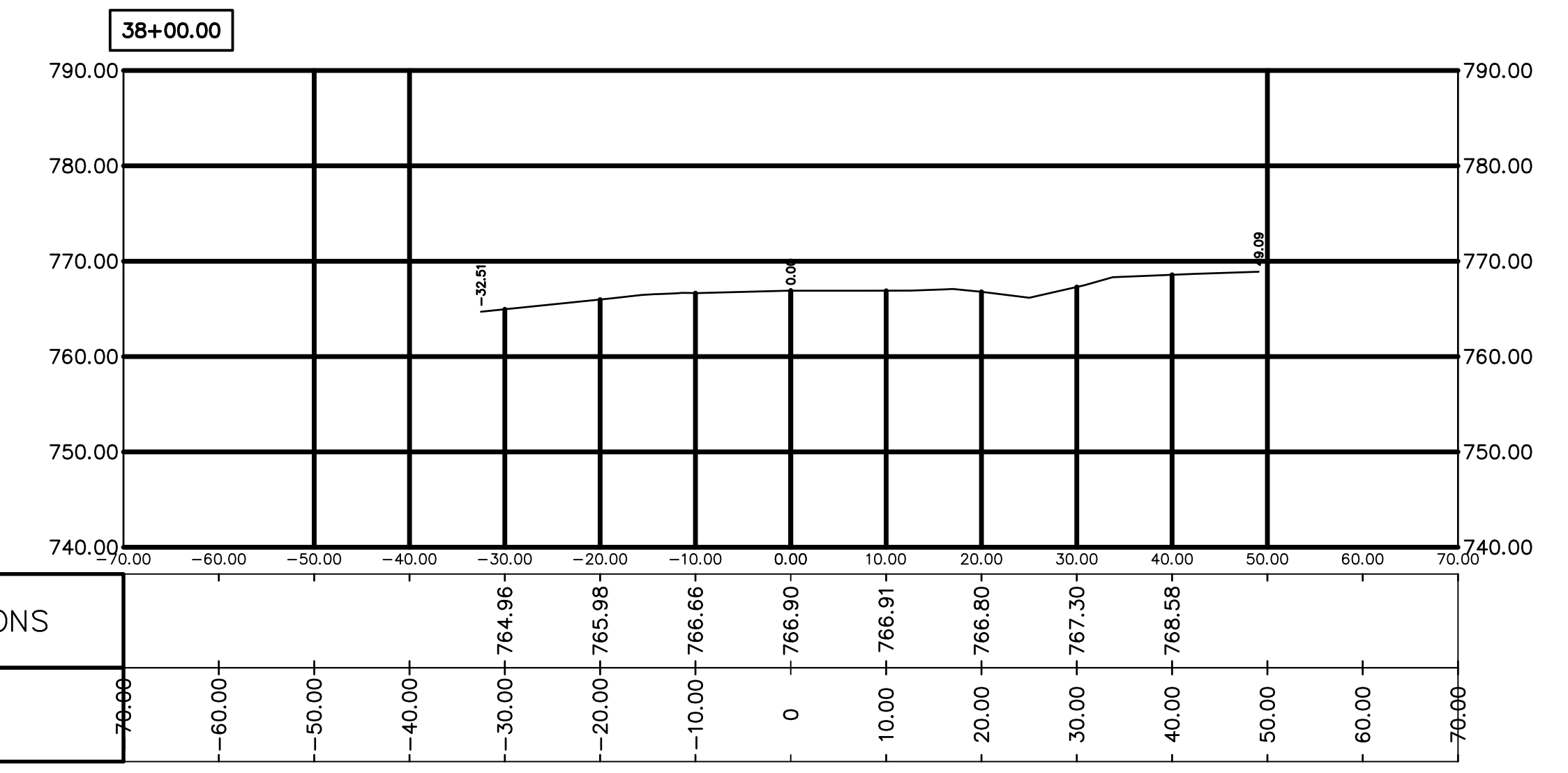
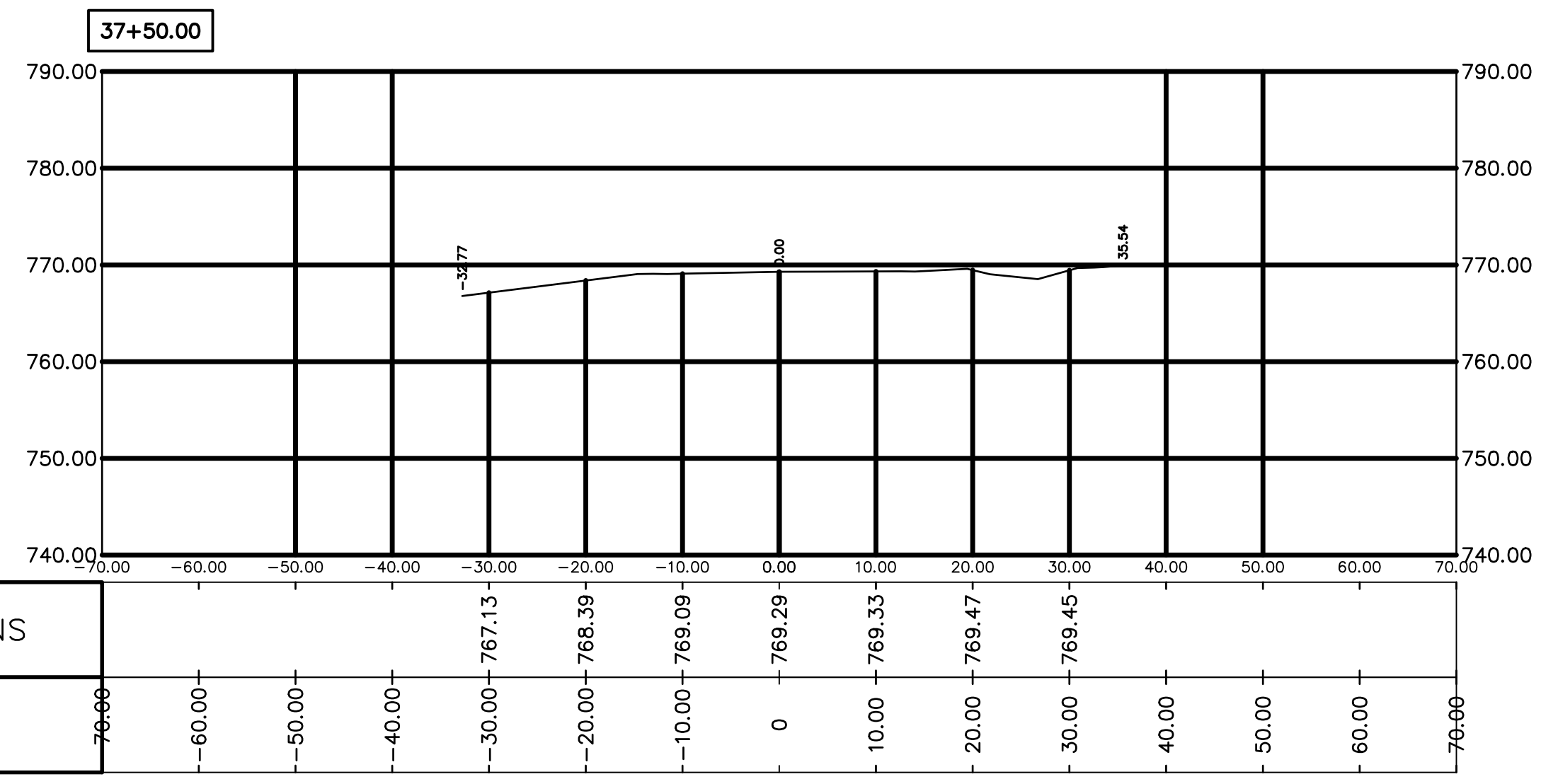
S:\CHARLEY\2022 Projects\11111111 - PM Highway to Lakeshore\CAD\11111111 - DESIGN\2-20-2024.dwg - CSI (11) - 2/27/2024 11:22:56 AM Eric

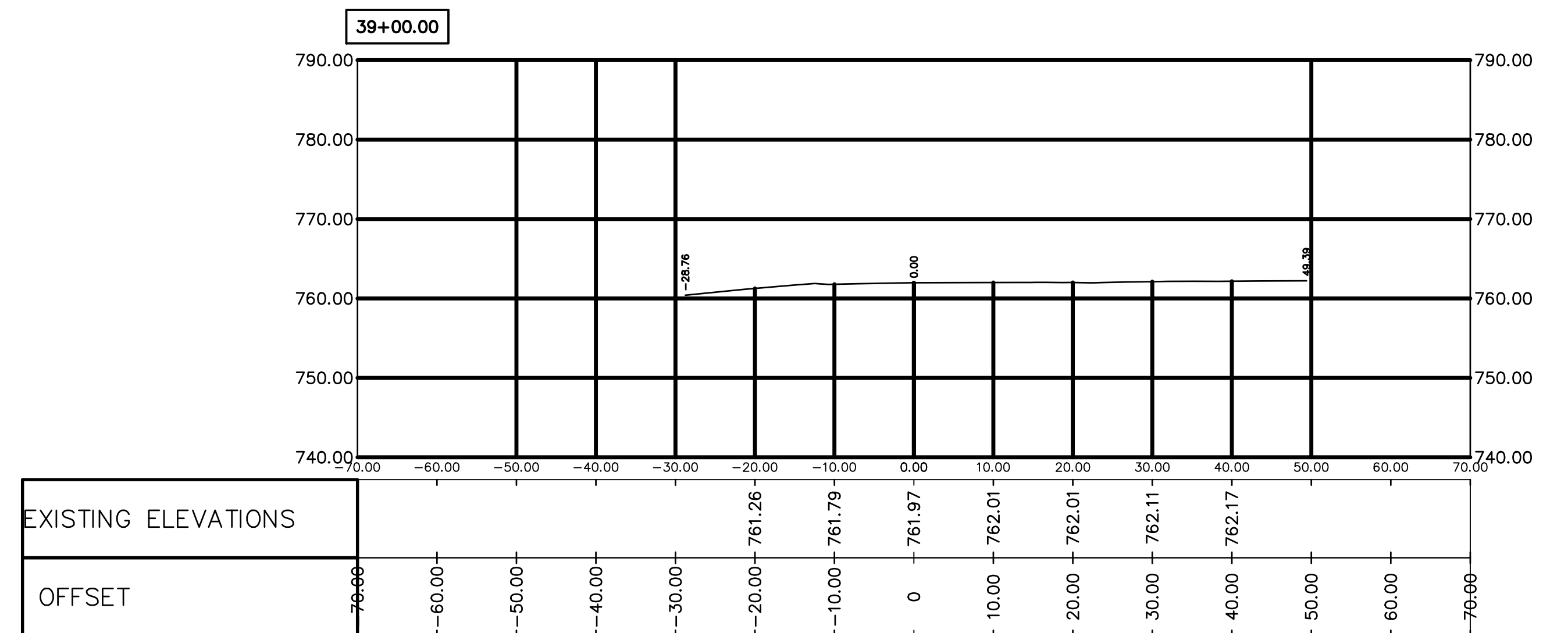
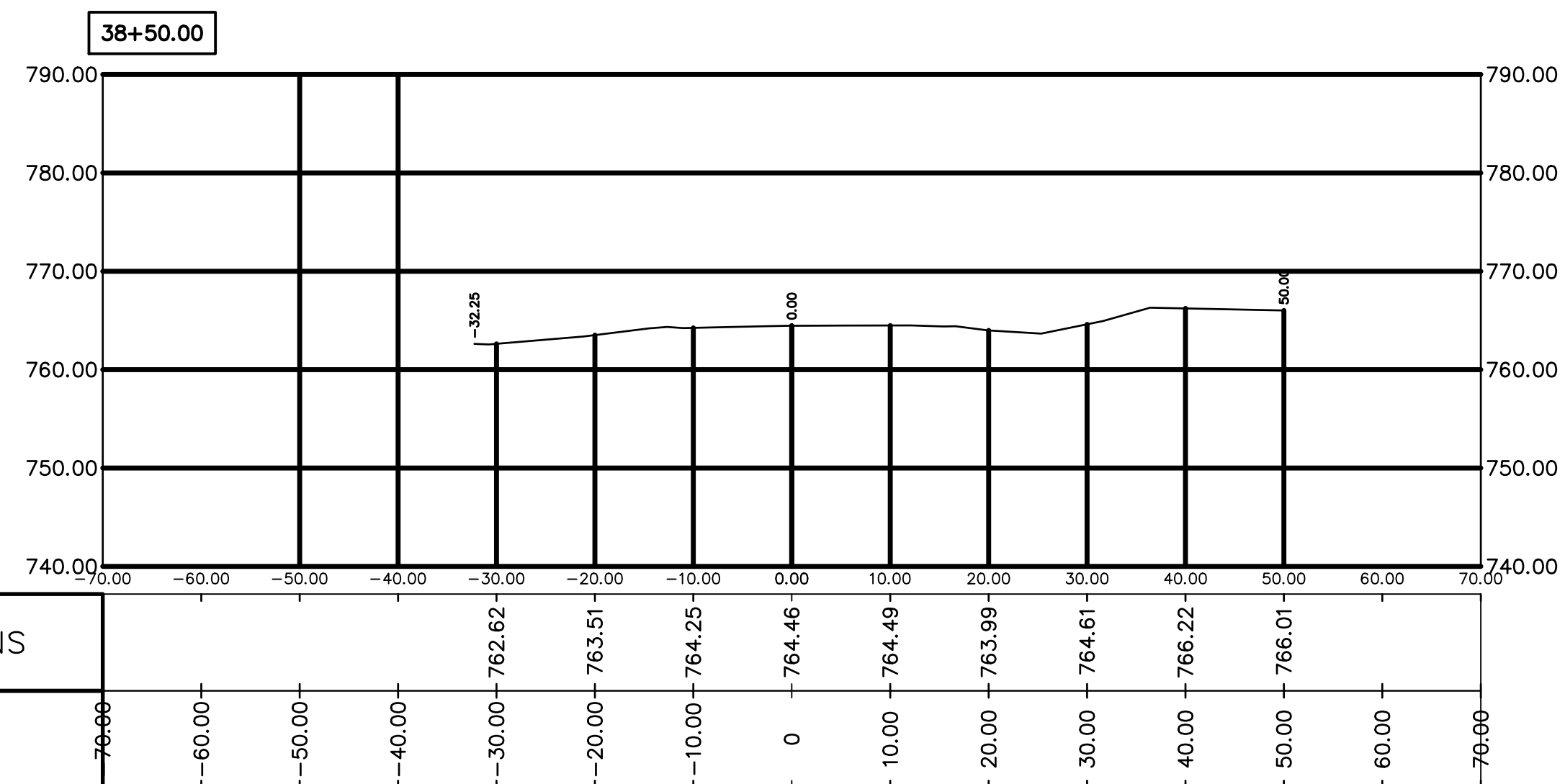
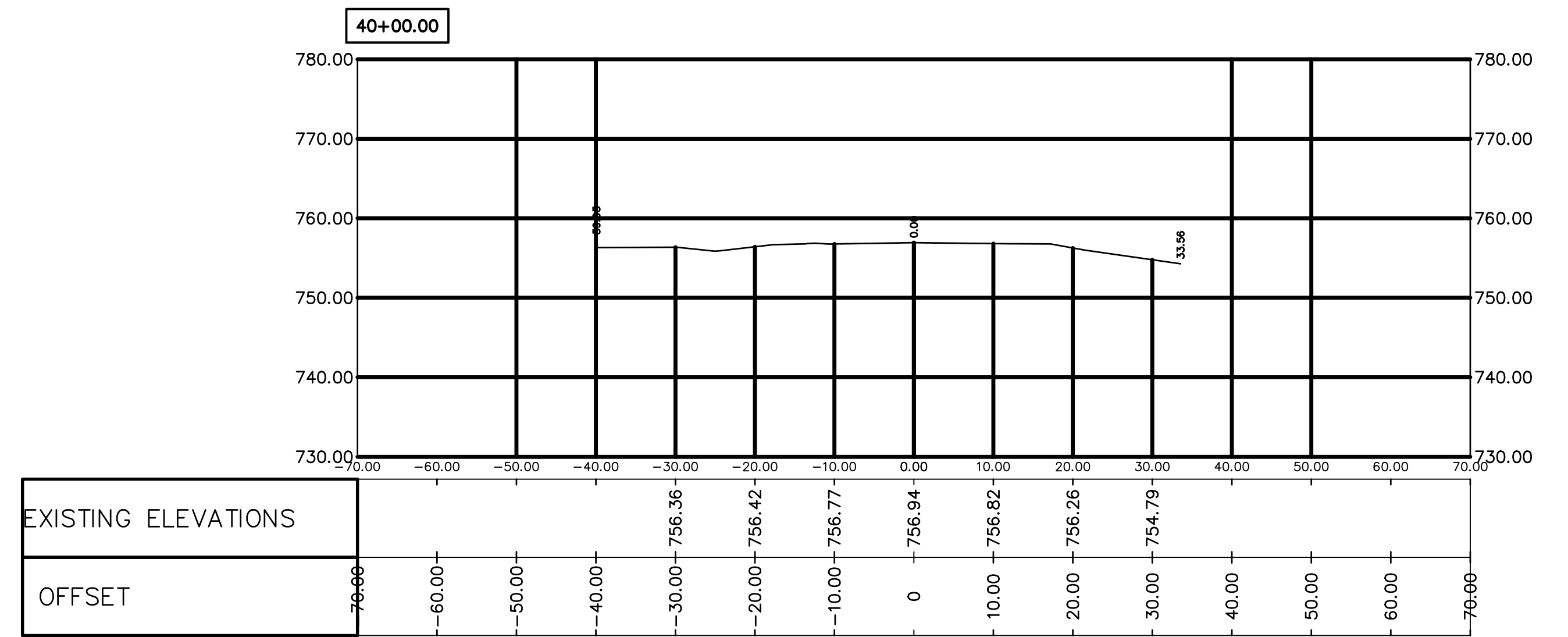
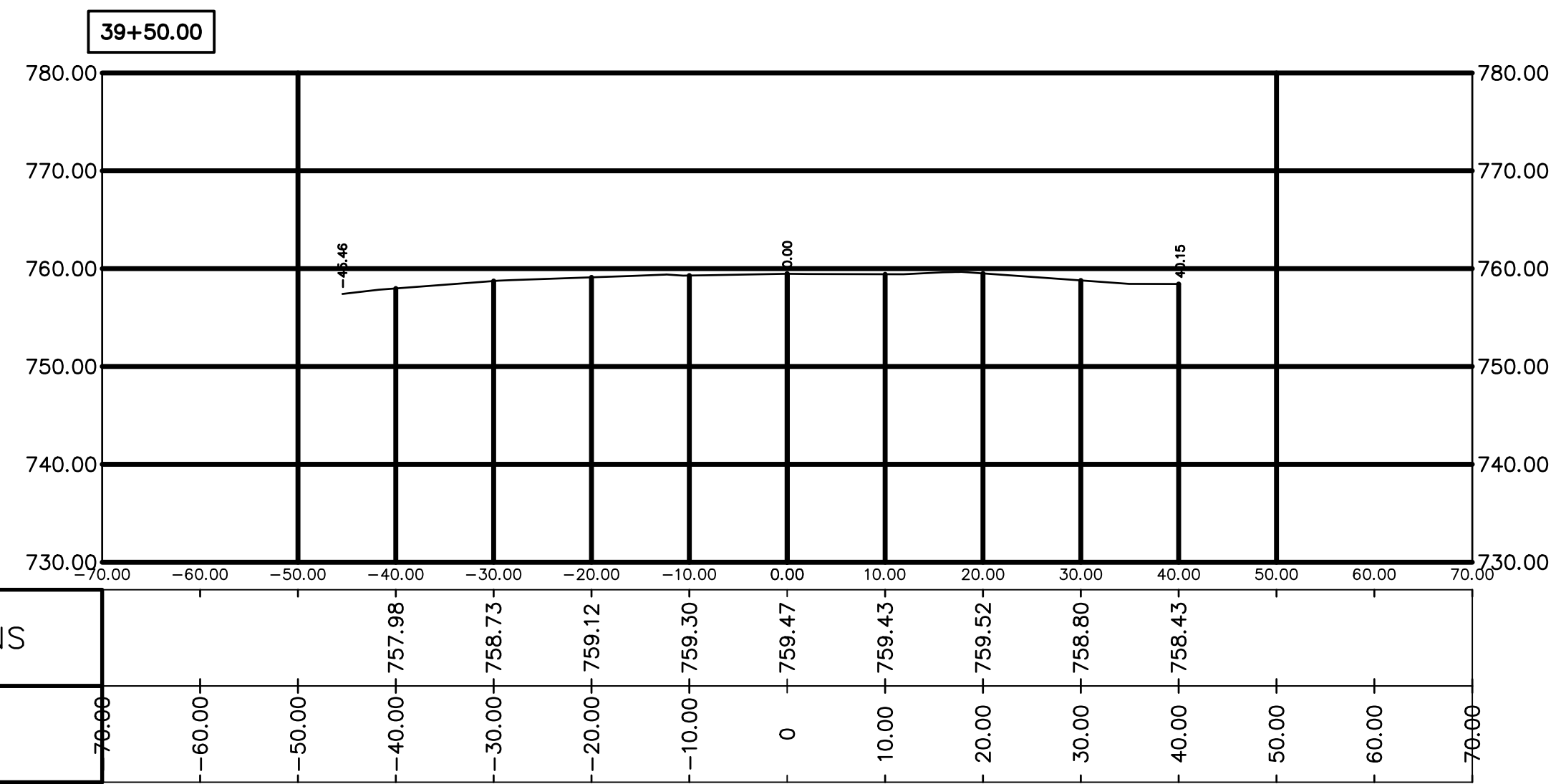


S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (12) - 2/27/2024 11:22:38 AM Eric

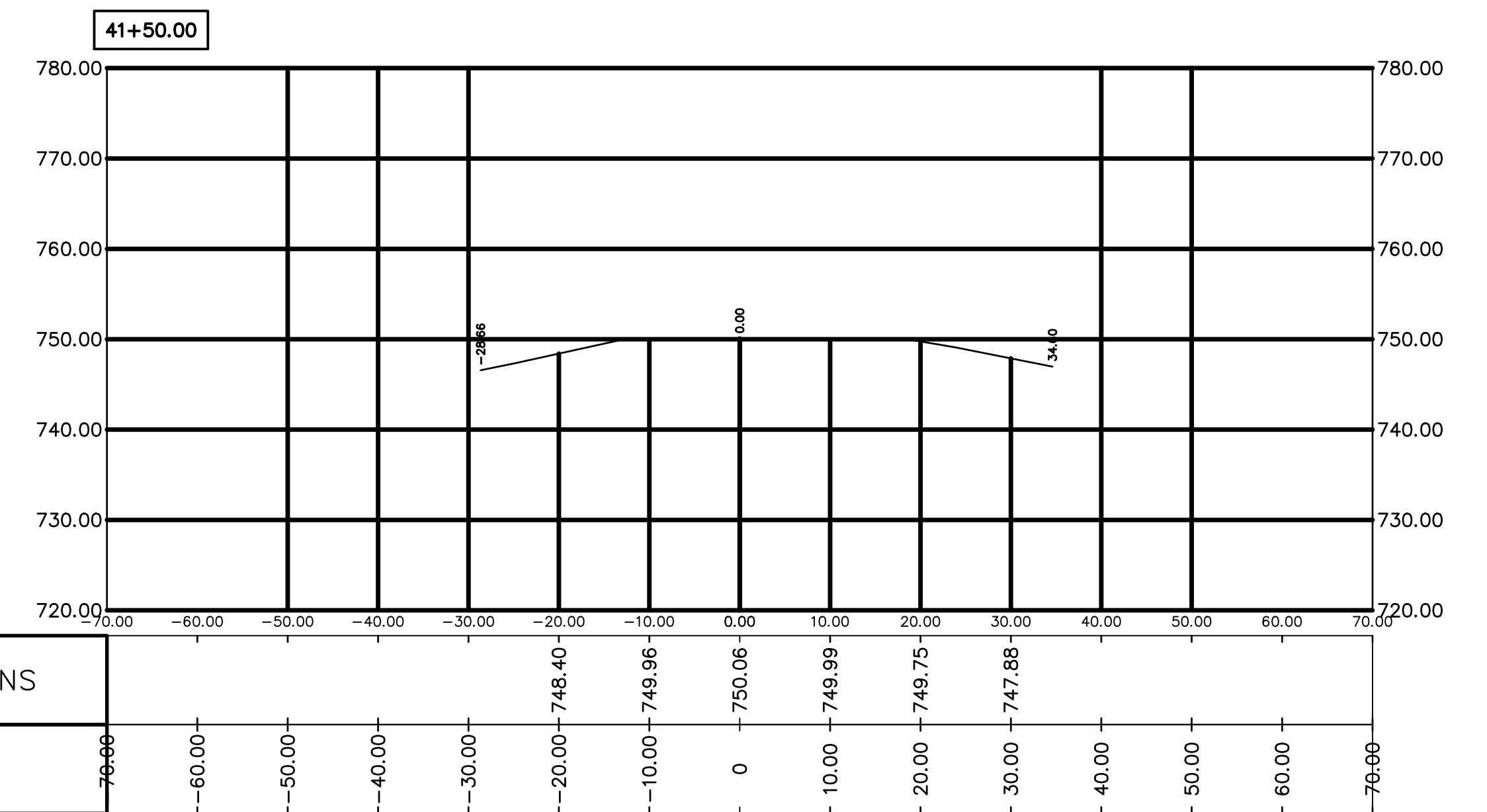
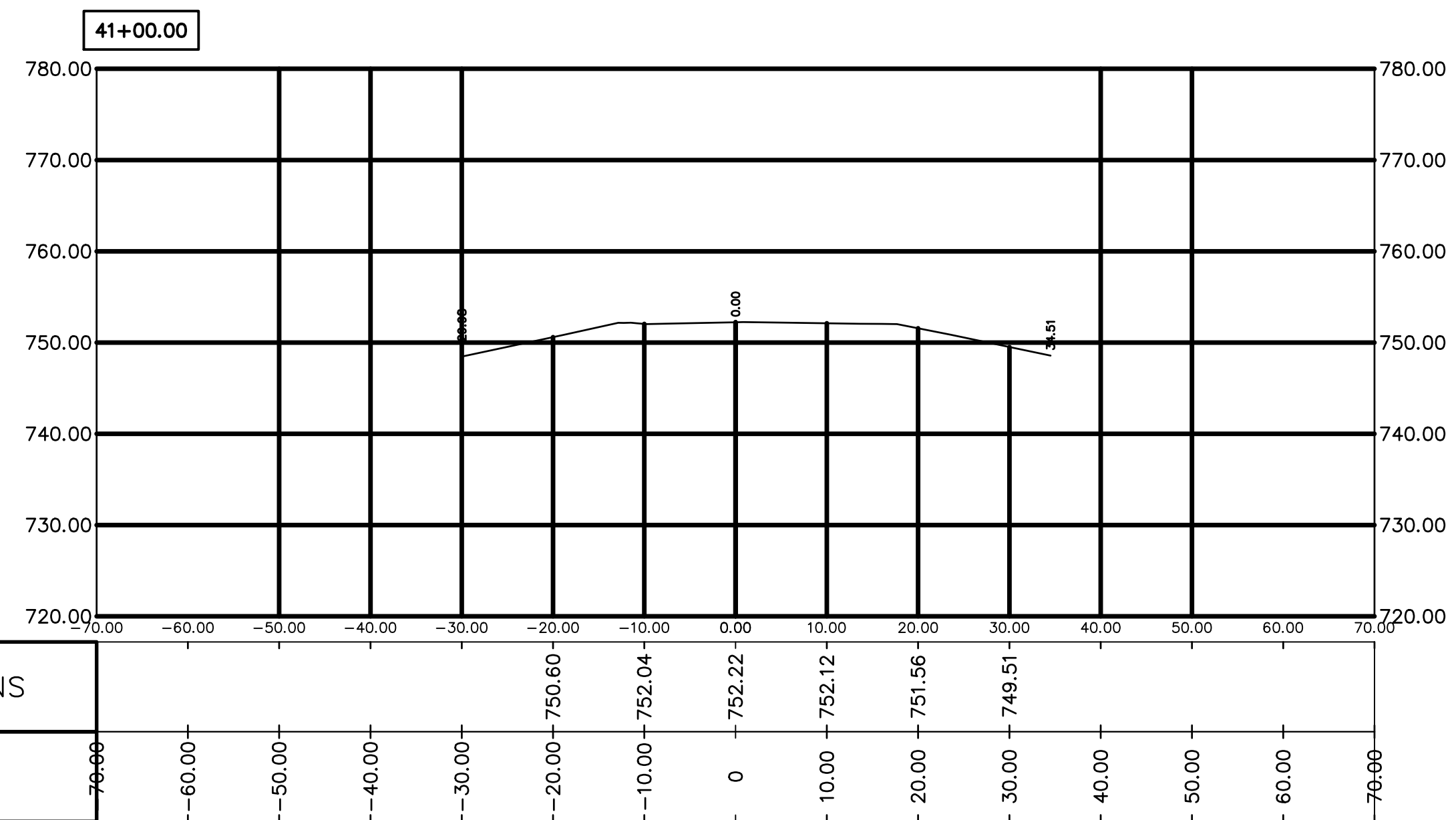
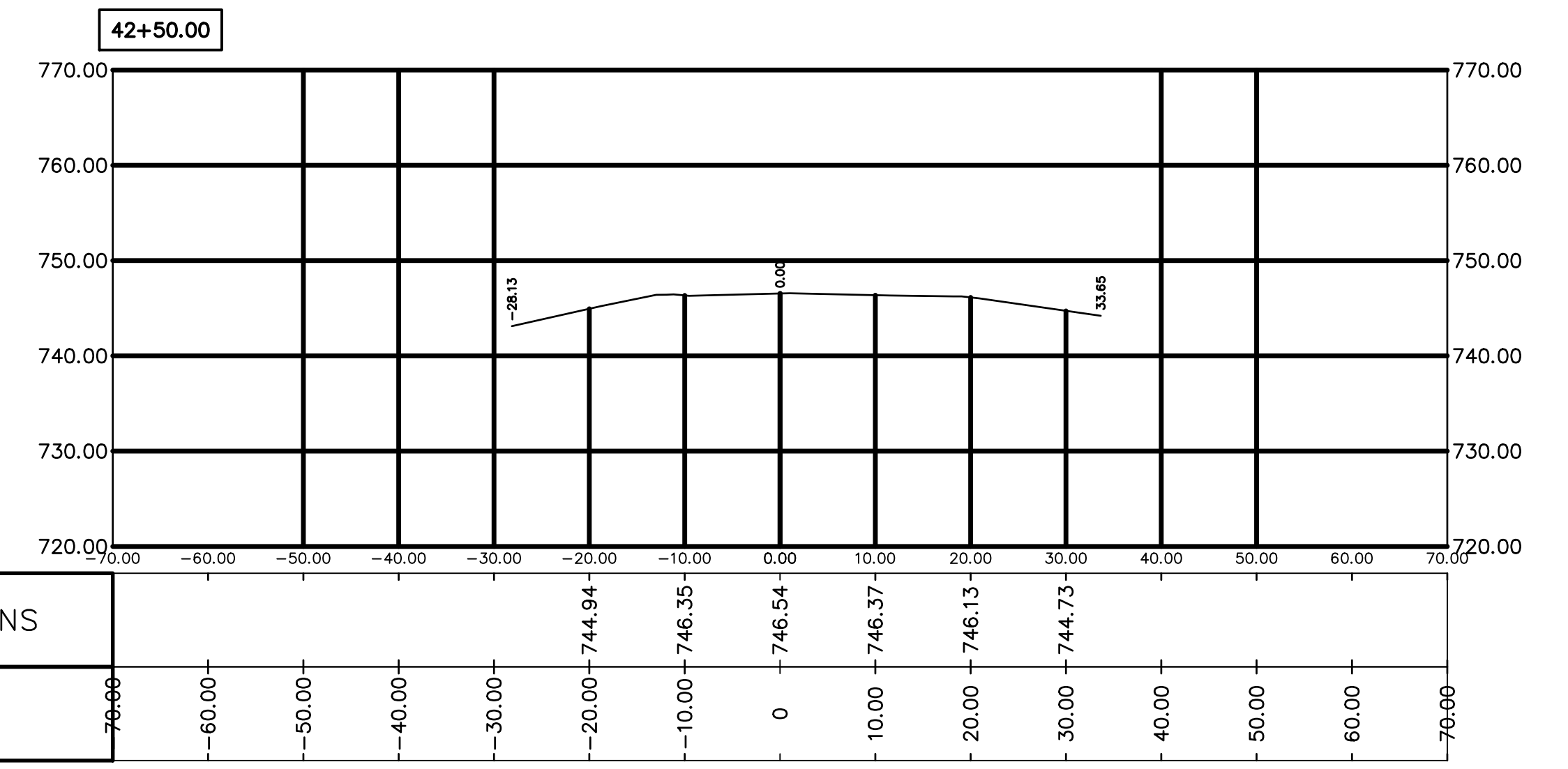
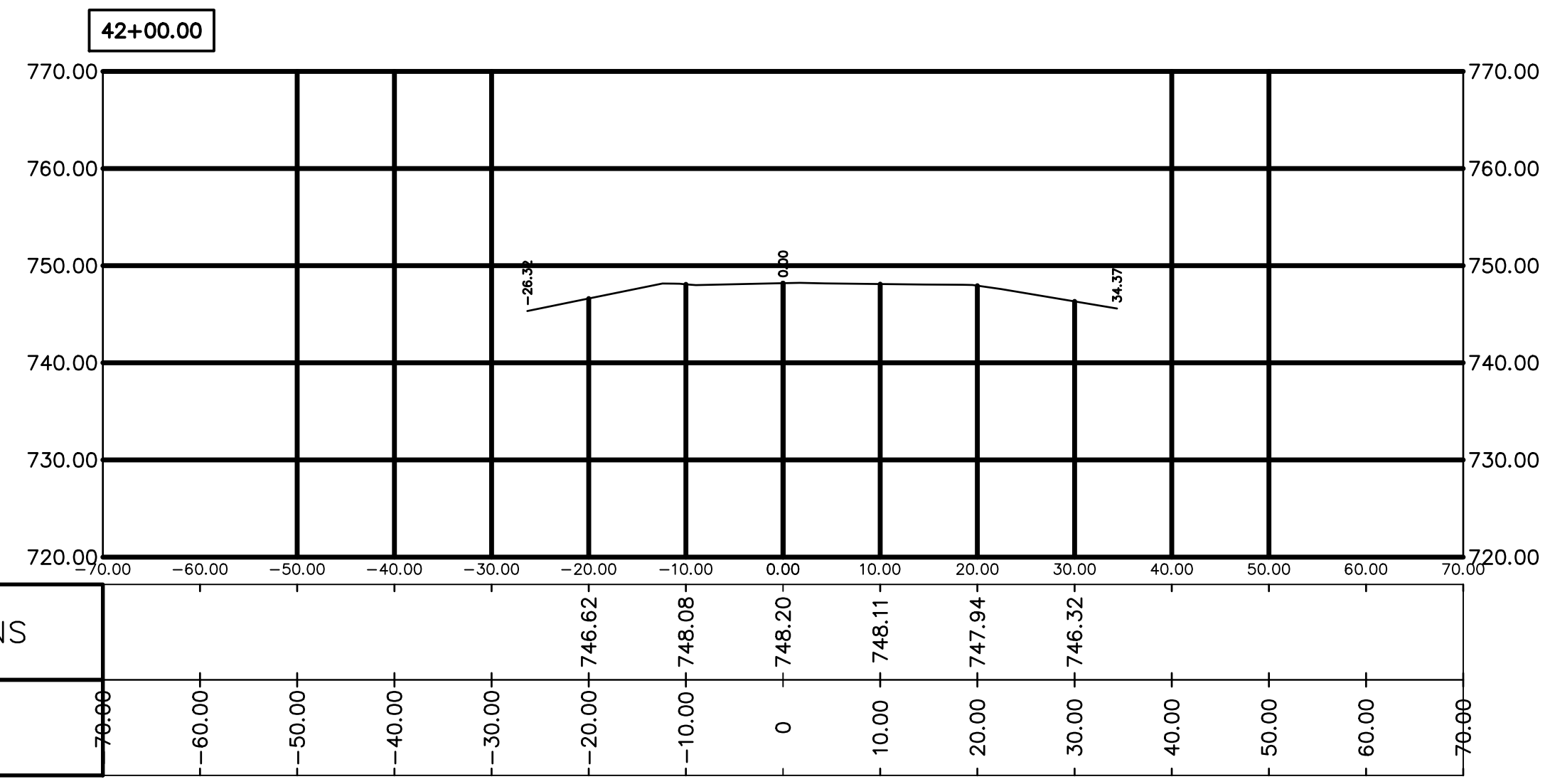


S:\CHARLEY\2022 Projects\1818 Rd. PM Highway to Lakeshore\CAD\1818 - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (13) - 2/27/2024 11:23:18 AM Eric



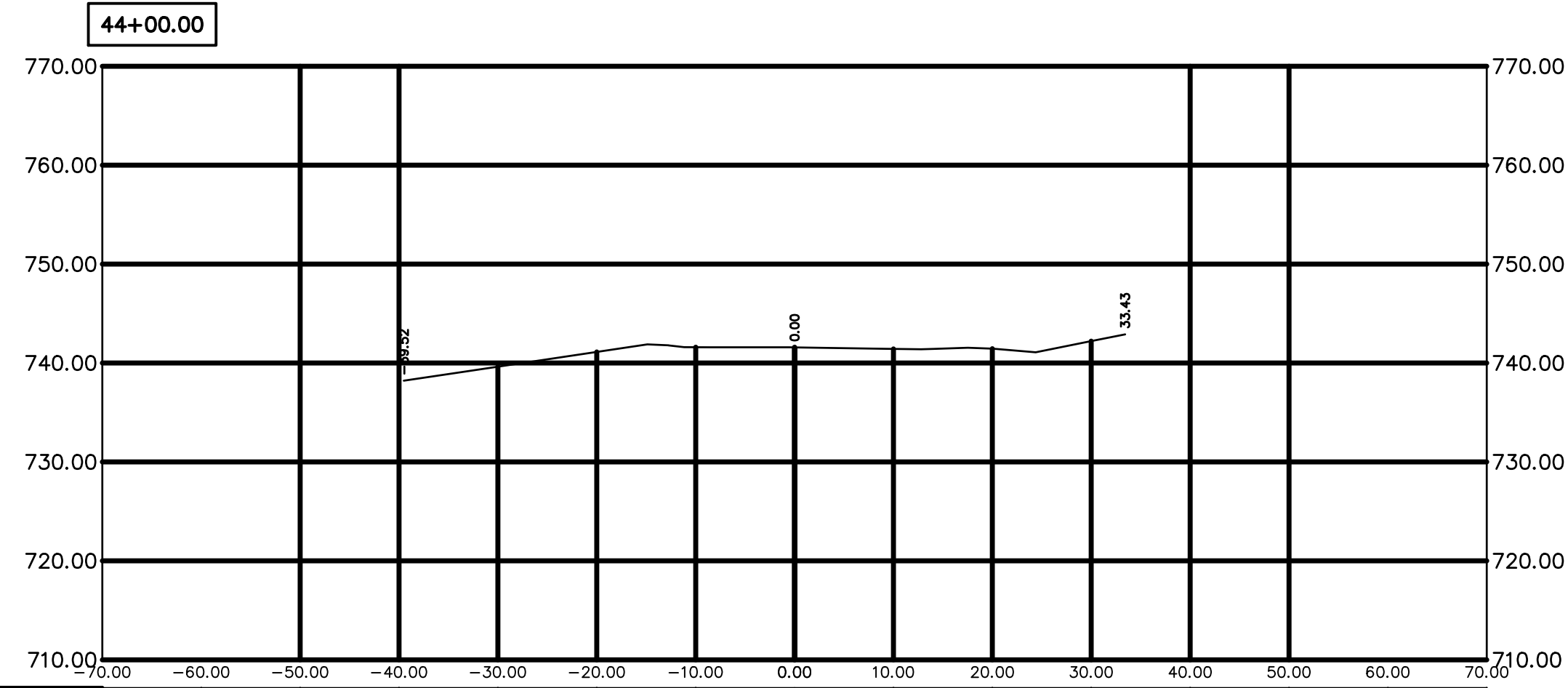


S:\CHARLEY\2022 Projects\1115 Rd. PM Highway to Lakeshore\CAD\1115 - DESIGN\2-20-2024.dwg - CSI (15) - 2/27/2024 11:23:57 AM - Eric

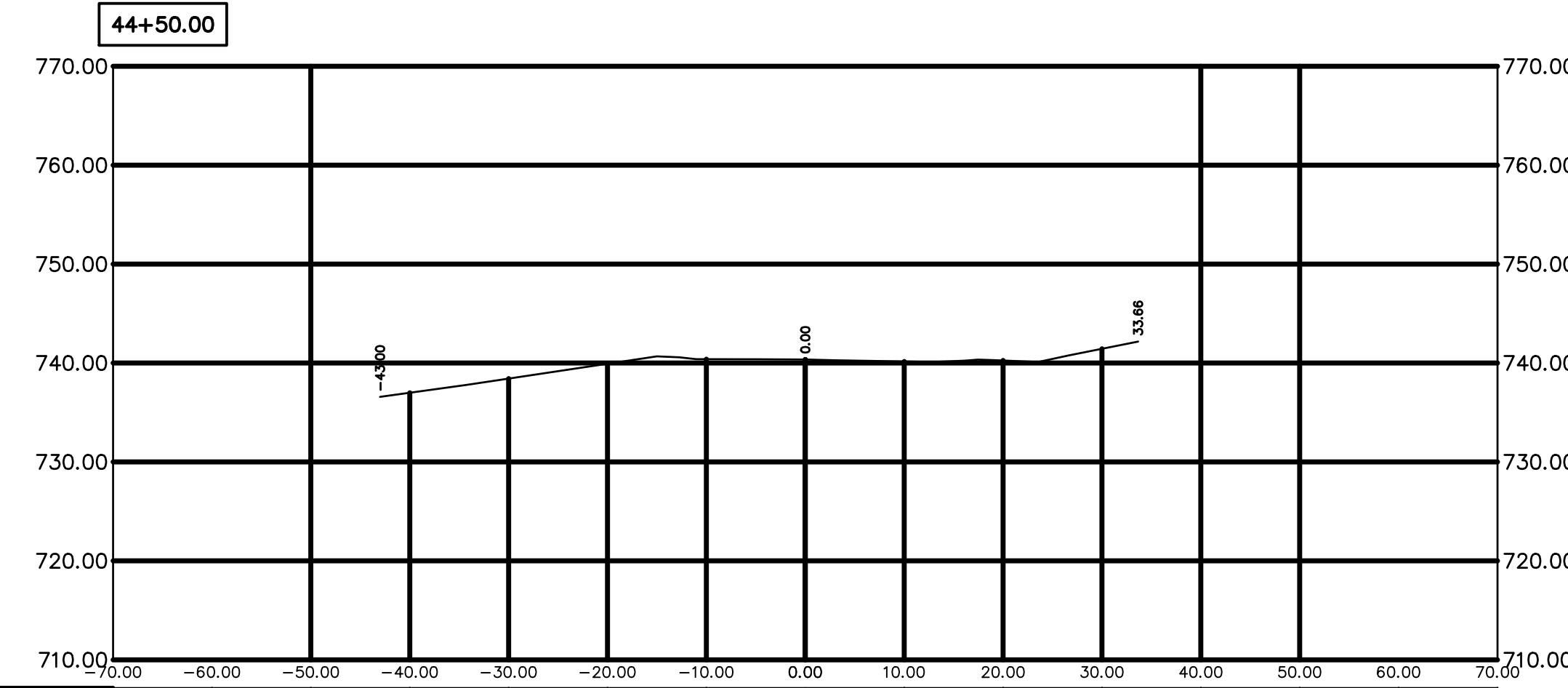




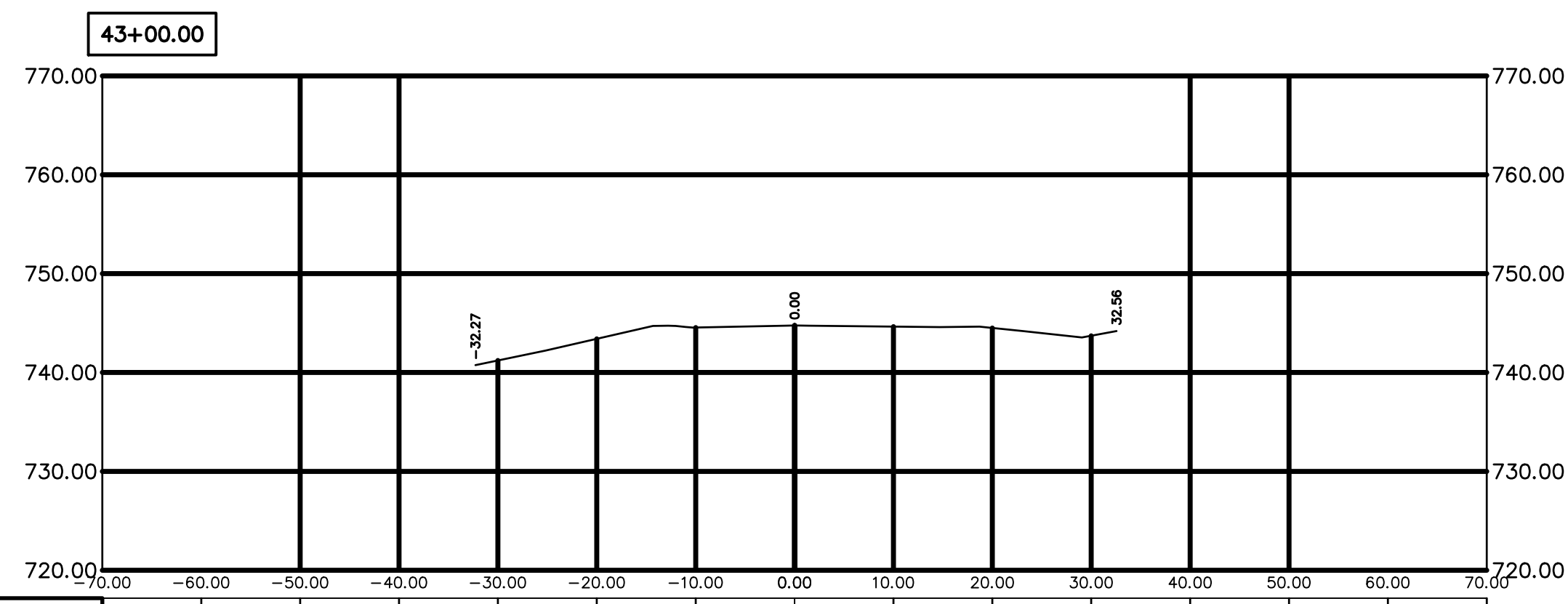
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (16) - 2/27/2024 11:24:17 AM Eric



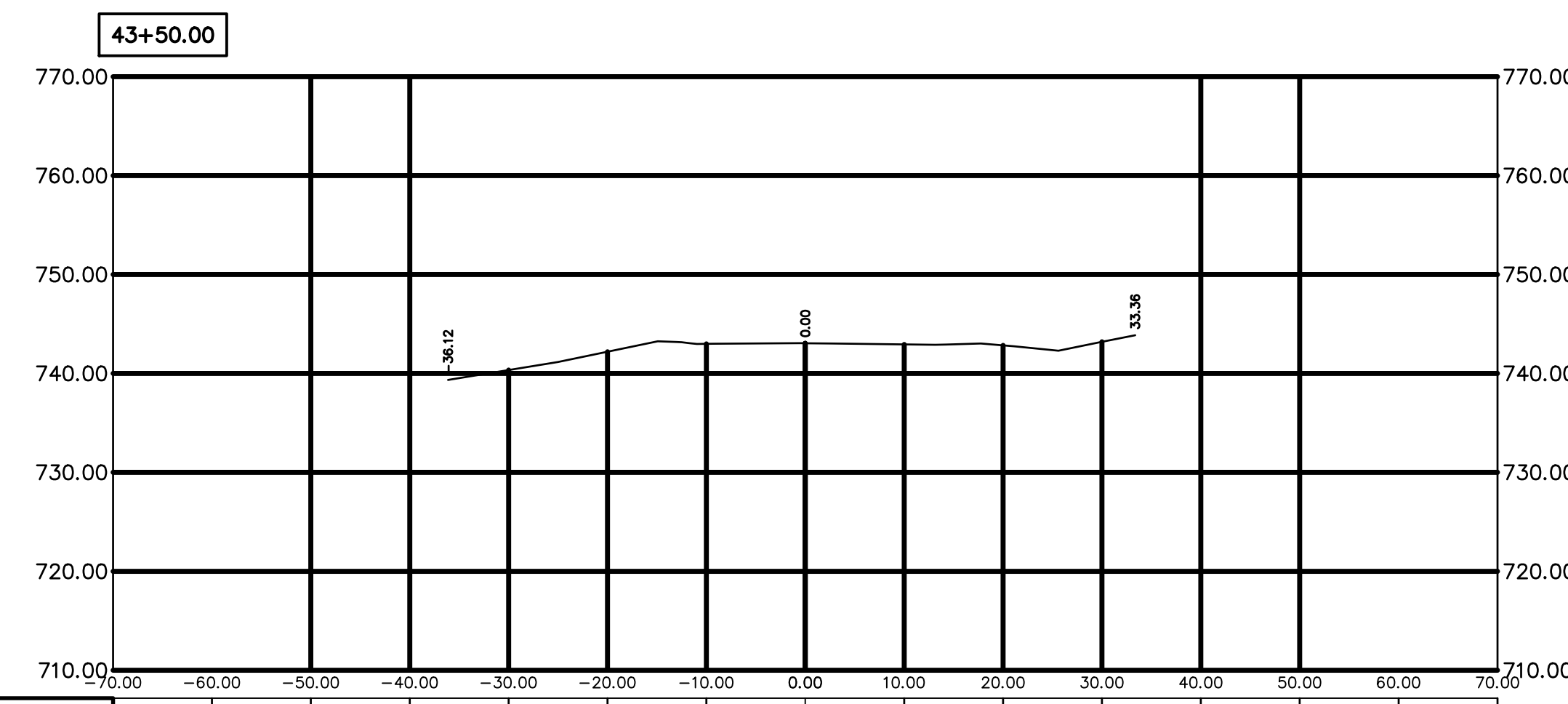
EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66



EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66

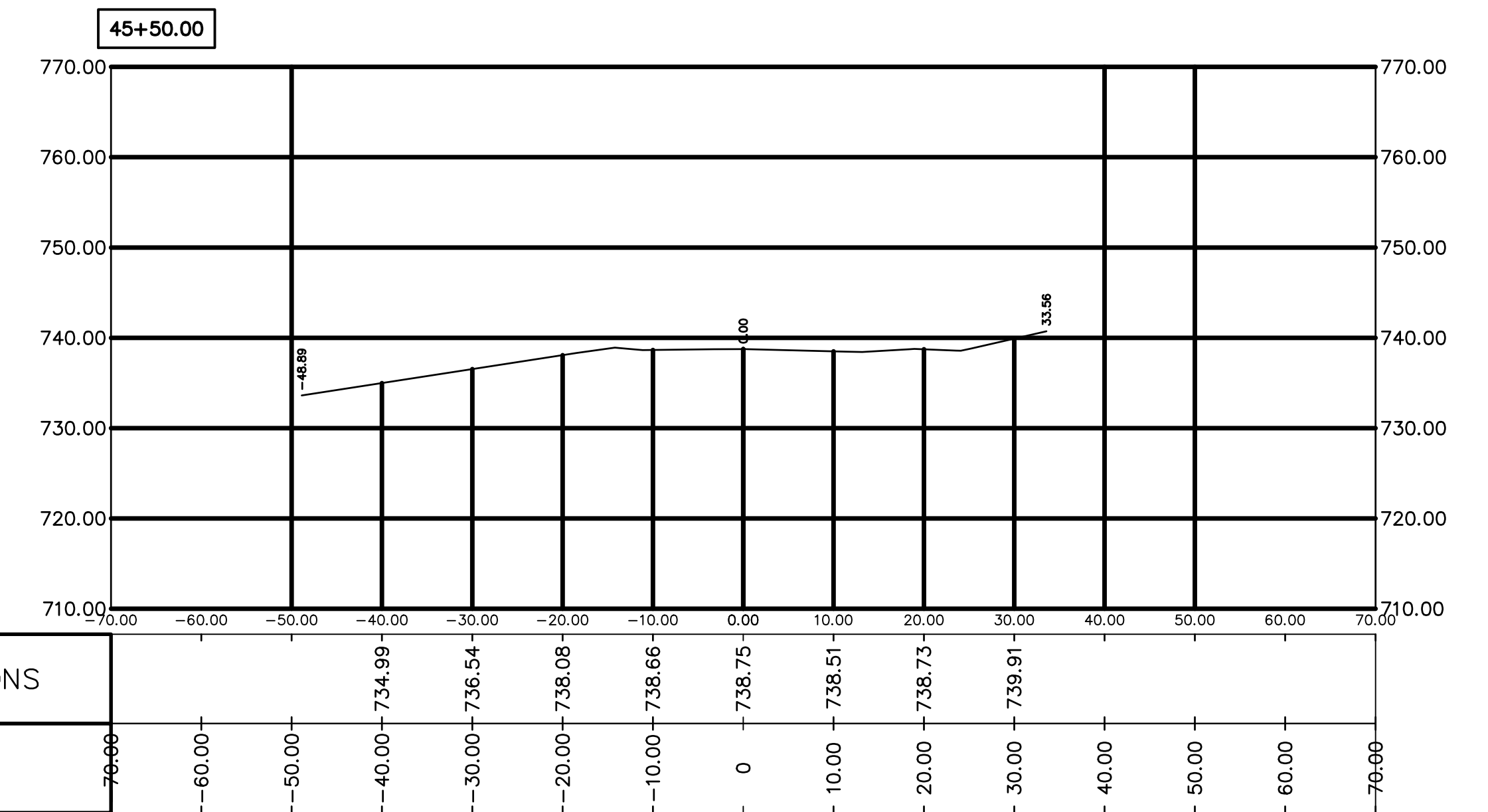
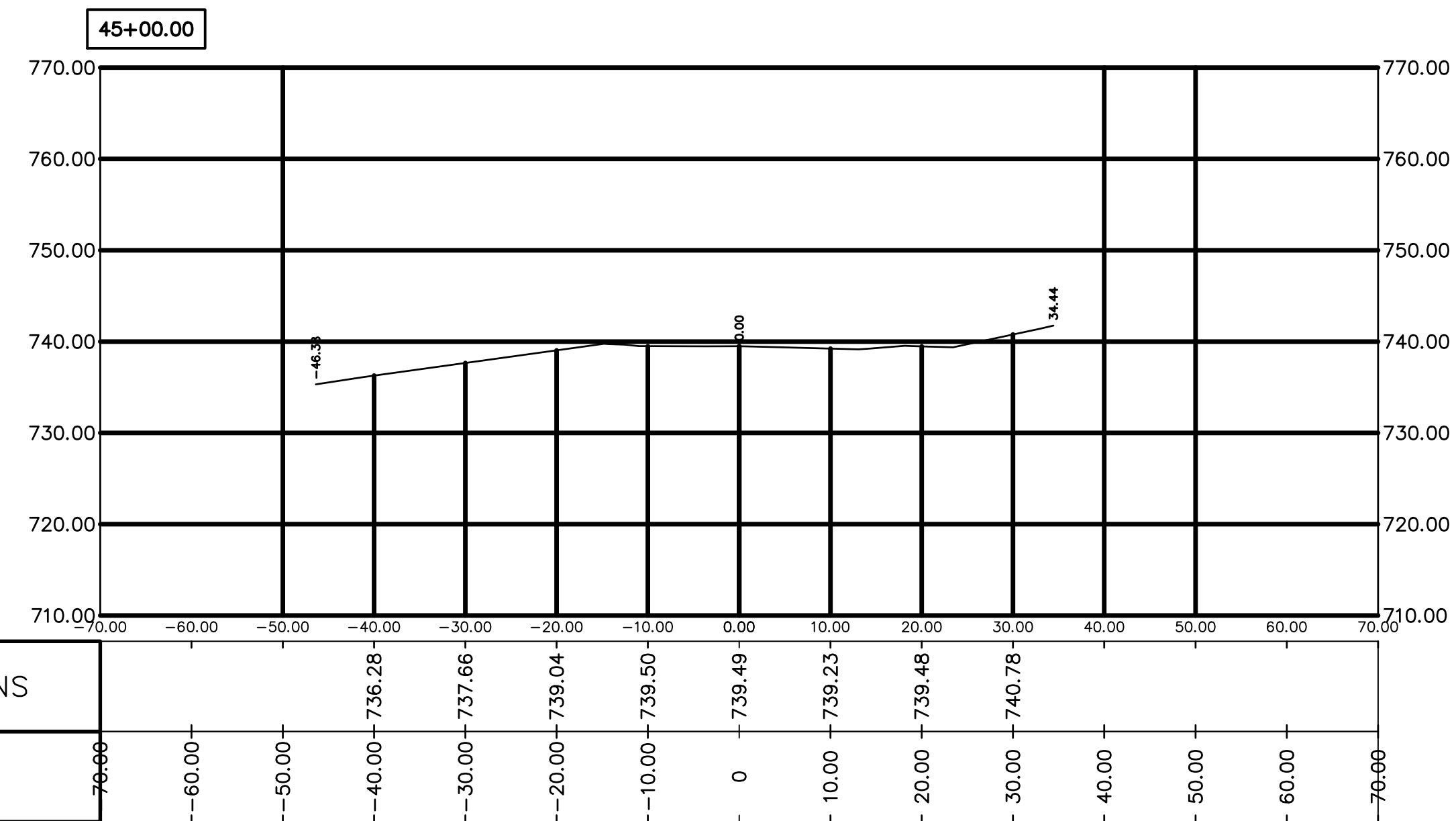
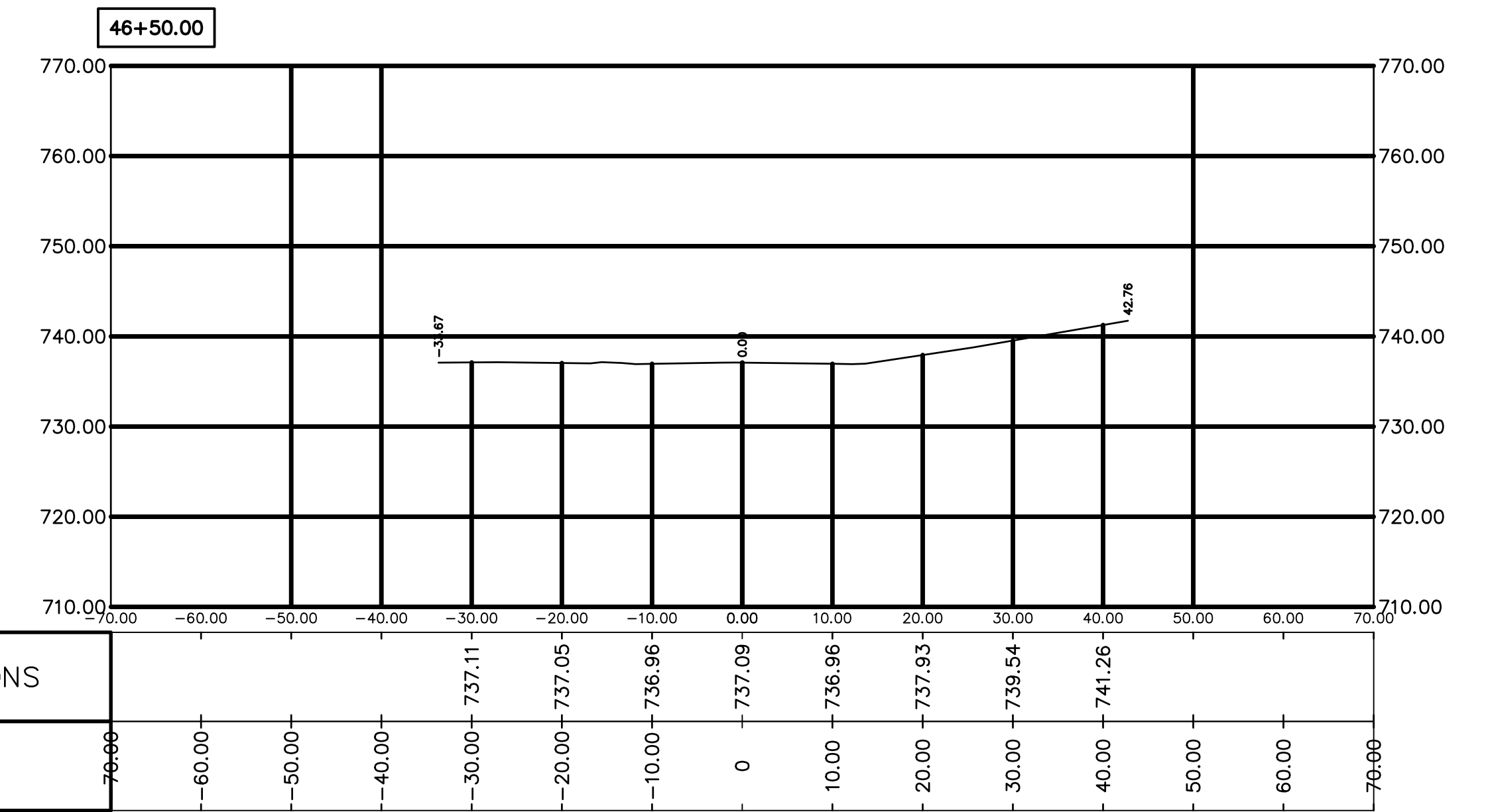
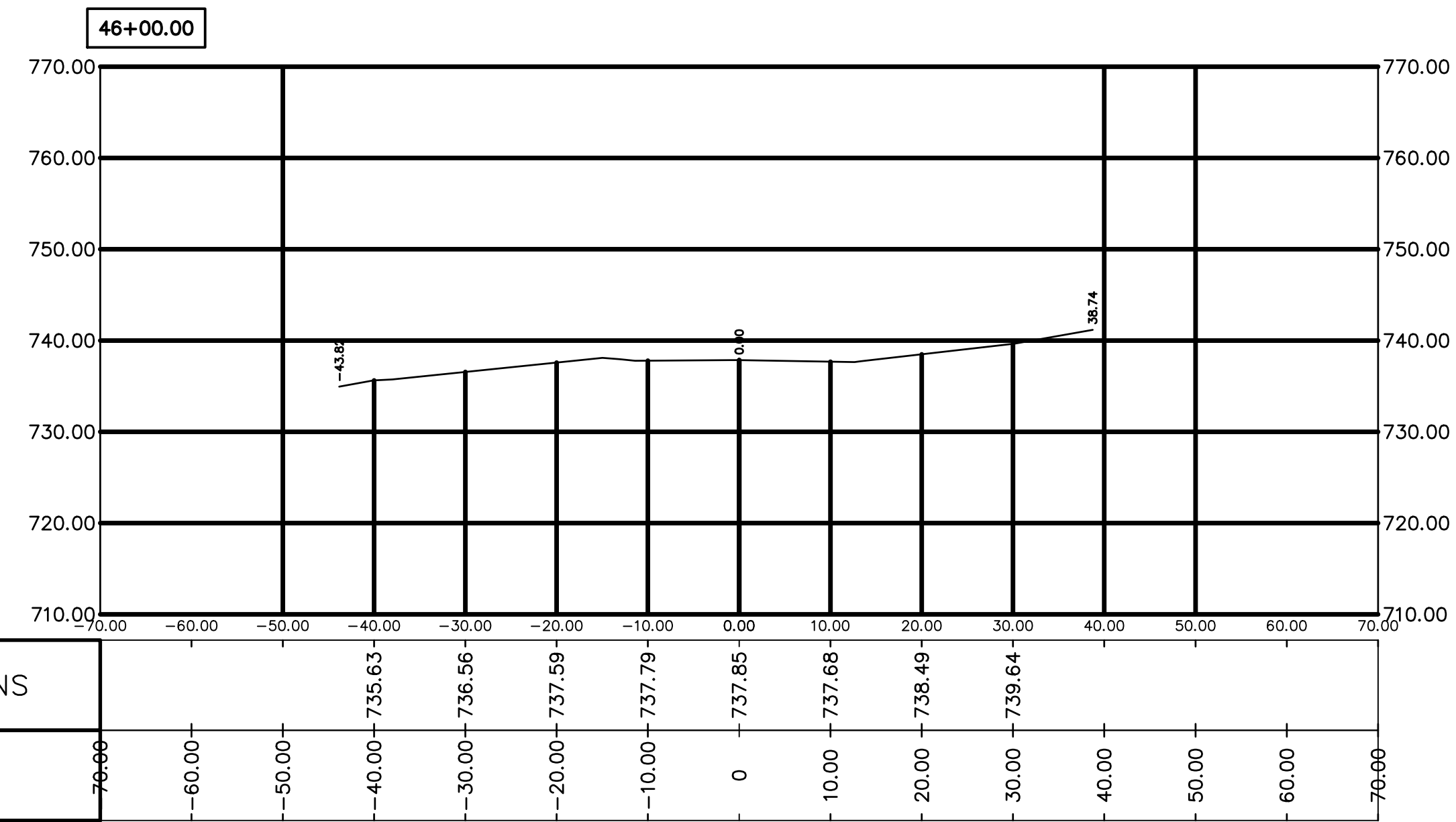


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66

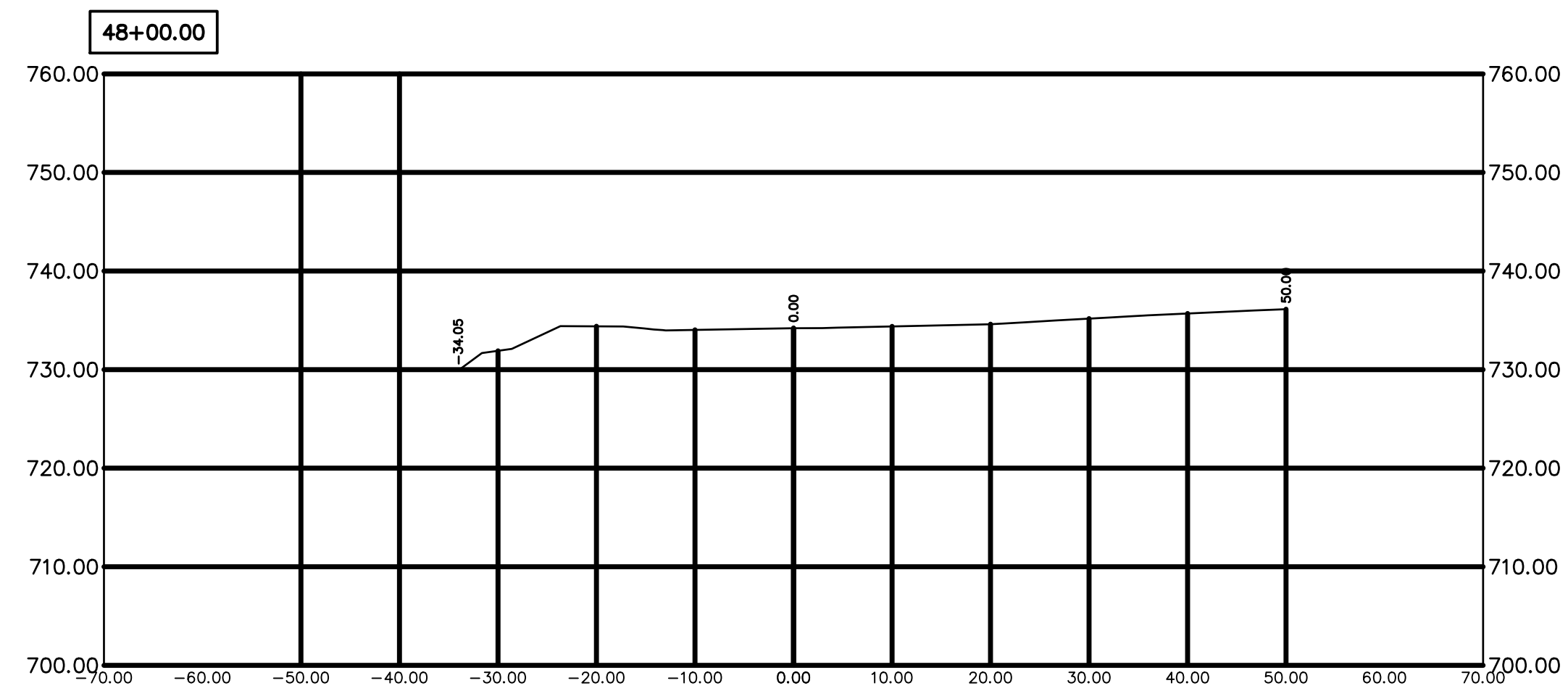


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.66

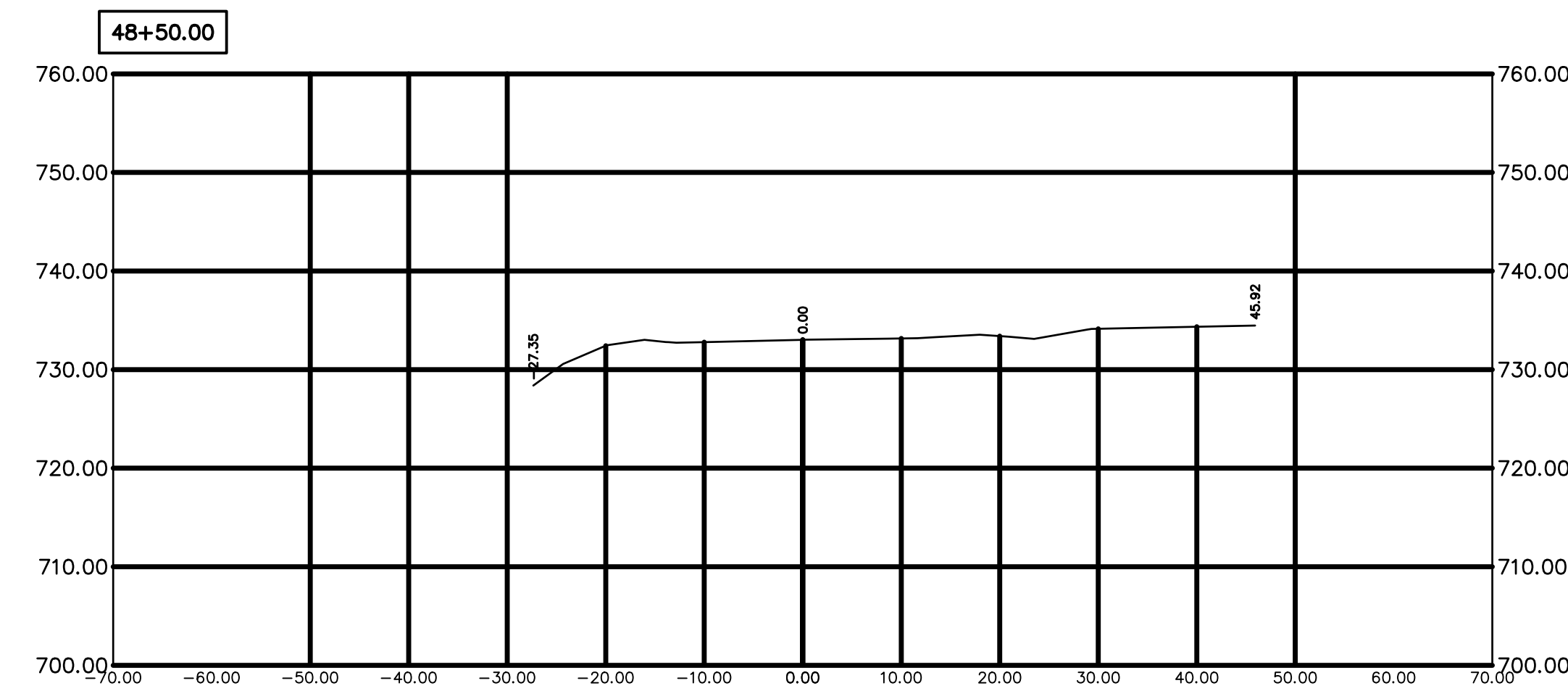
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (17) - 2/27/2024 11:24:37 AM Eric



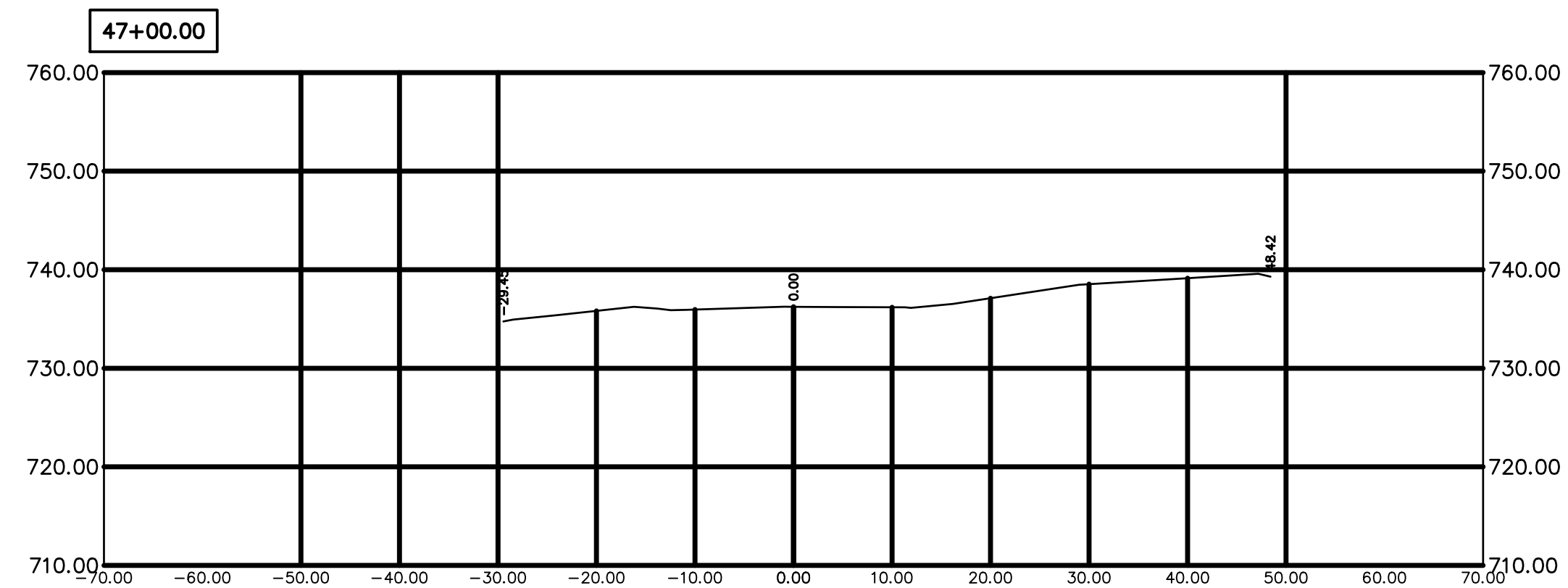
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASE - DESIGN\2-20-2024.dwg - CSI (20) - 2/27/2024 11:25:38 AM Eric



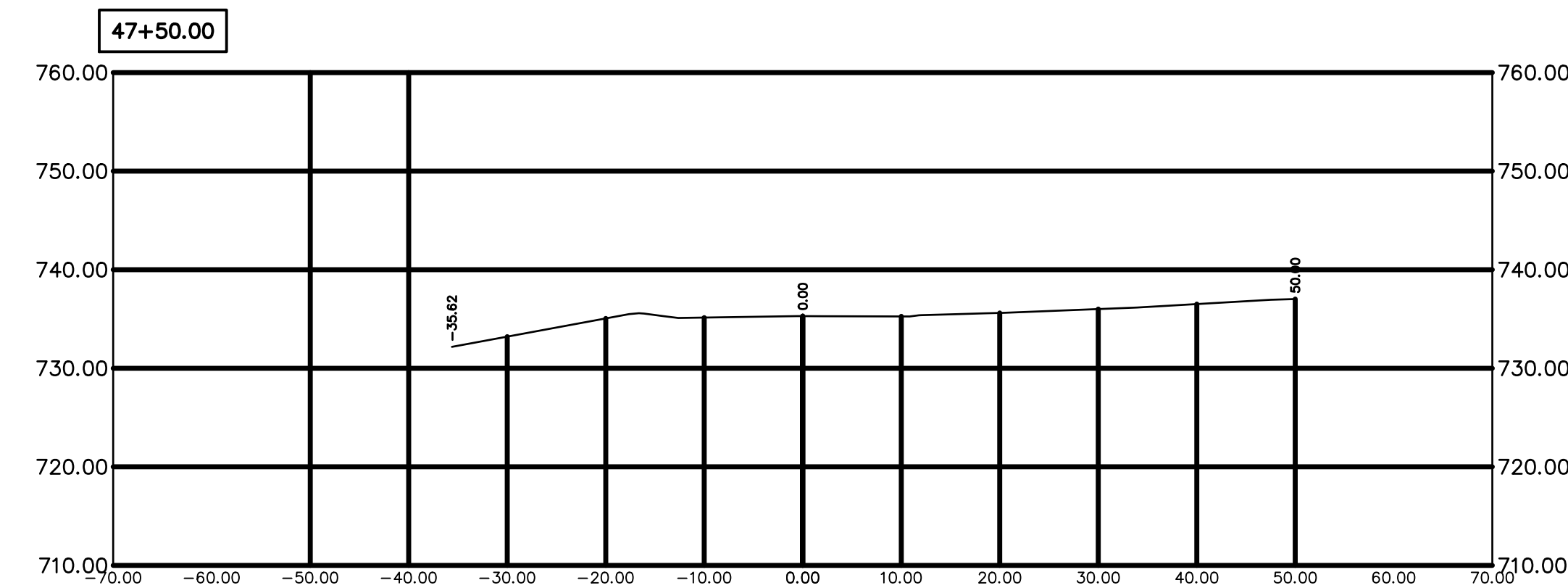
EXISTING ELEVATIONS	76.00	60.00	50.00	40.00	30.00	20.00	10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.00	731.91	734.39	734.03	734.20	734.38	734.60	735.17	735.69	736.13					



EXISTING ELEVATIONS	76.00	60.00	50.00	40.00	30.00	20.00	10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.00	732.43	732.79	733.03	733.16	733.40	734.14	734.35							

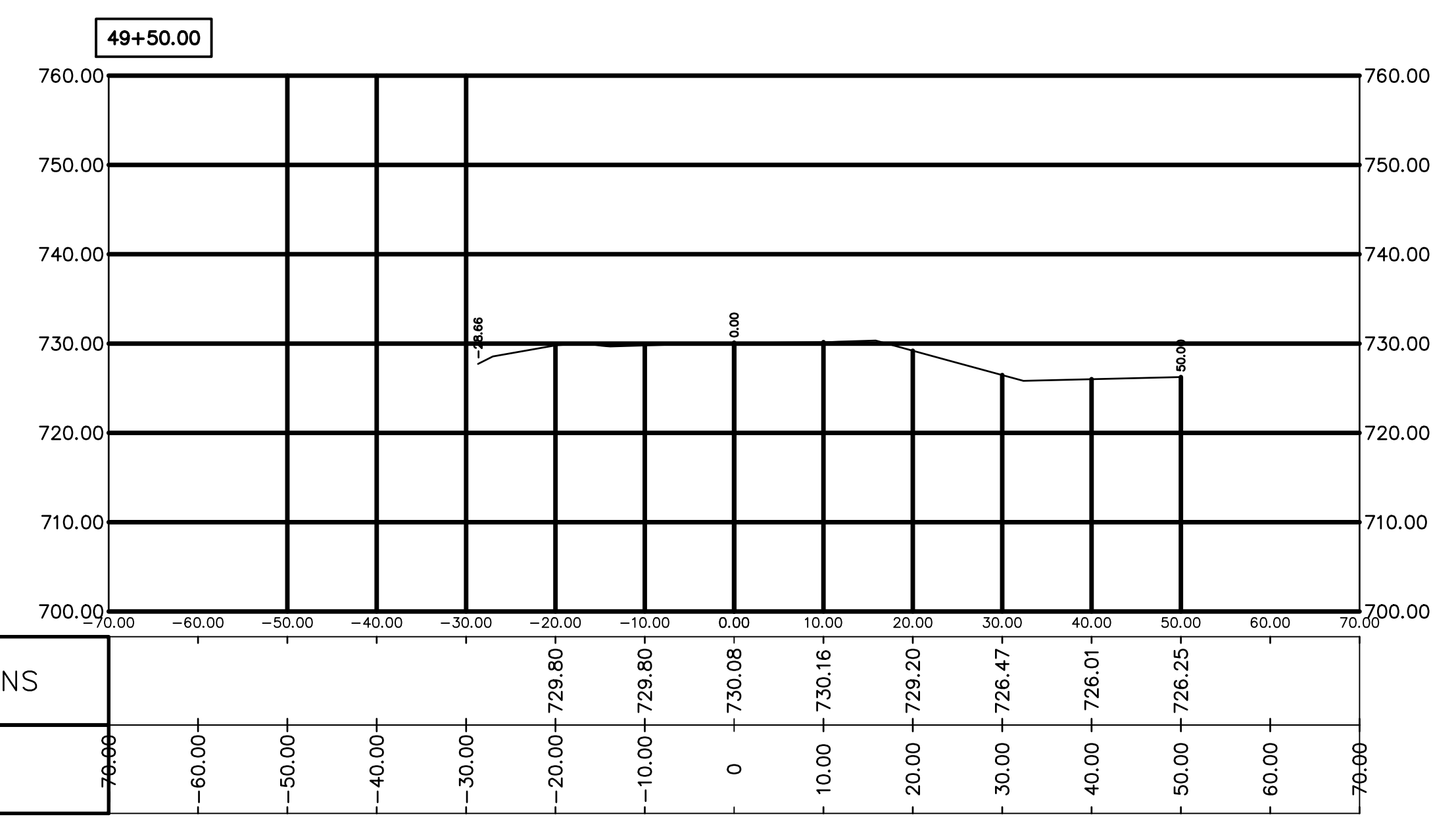
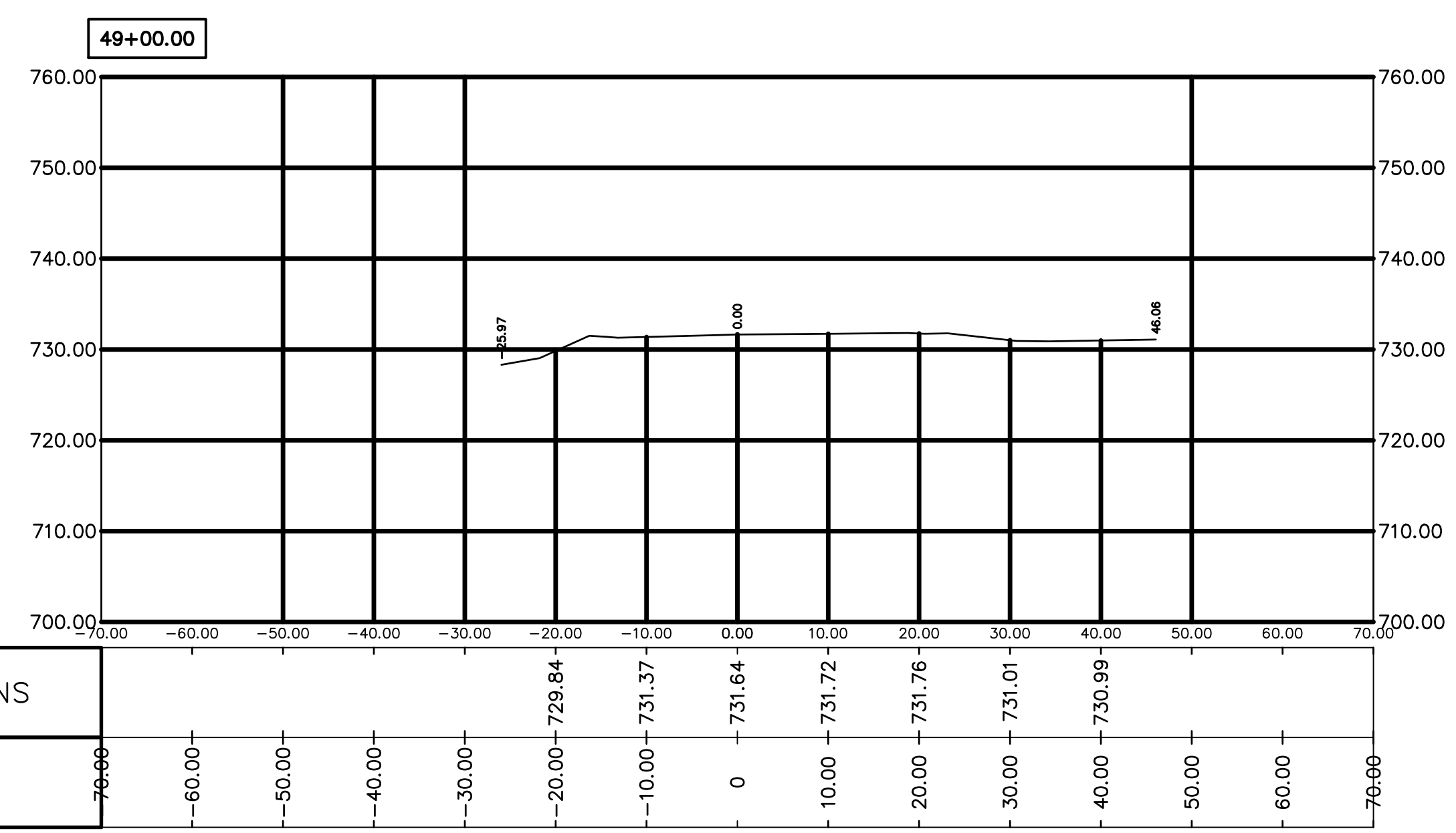
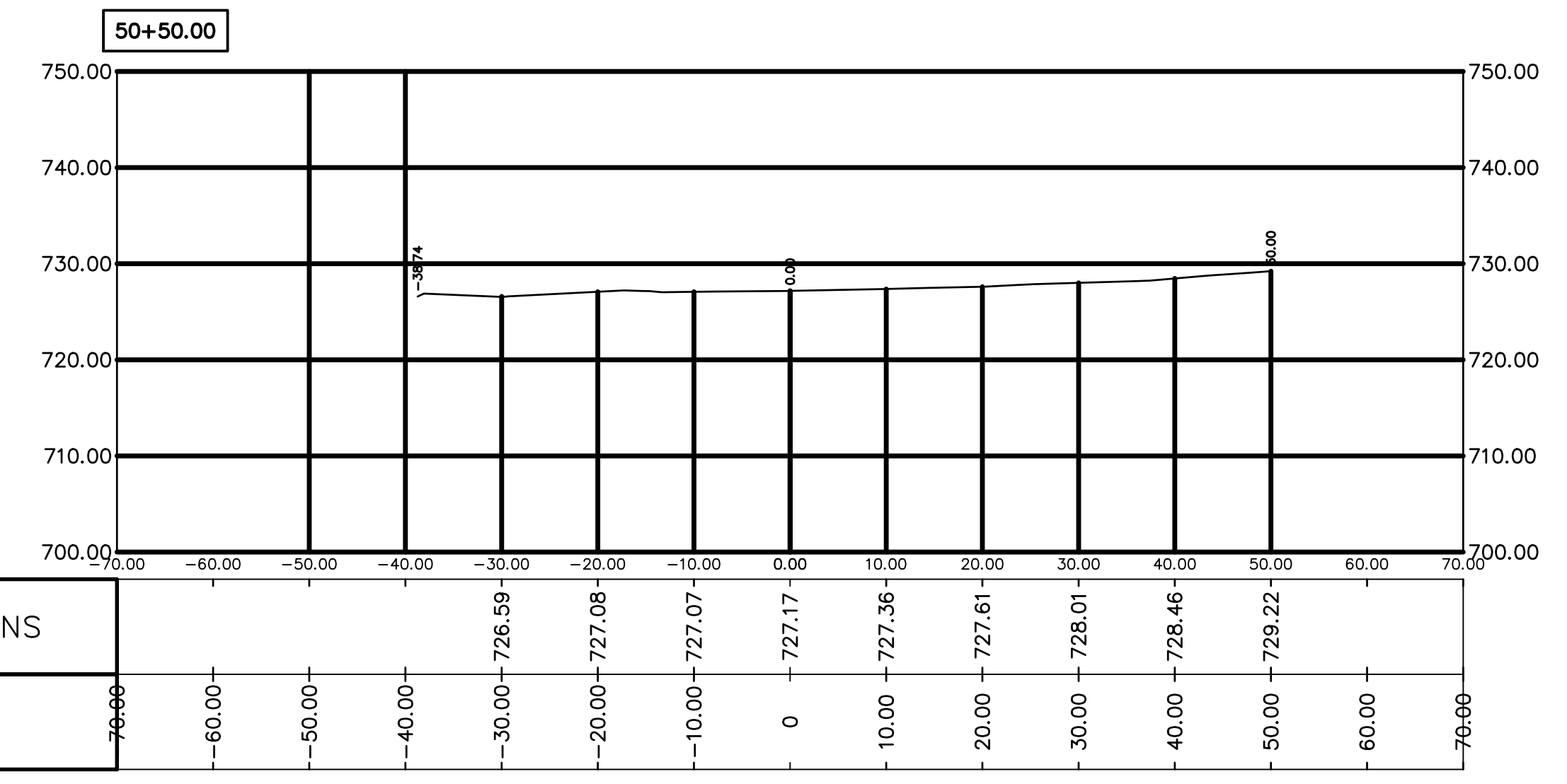
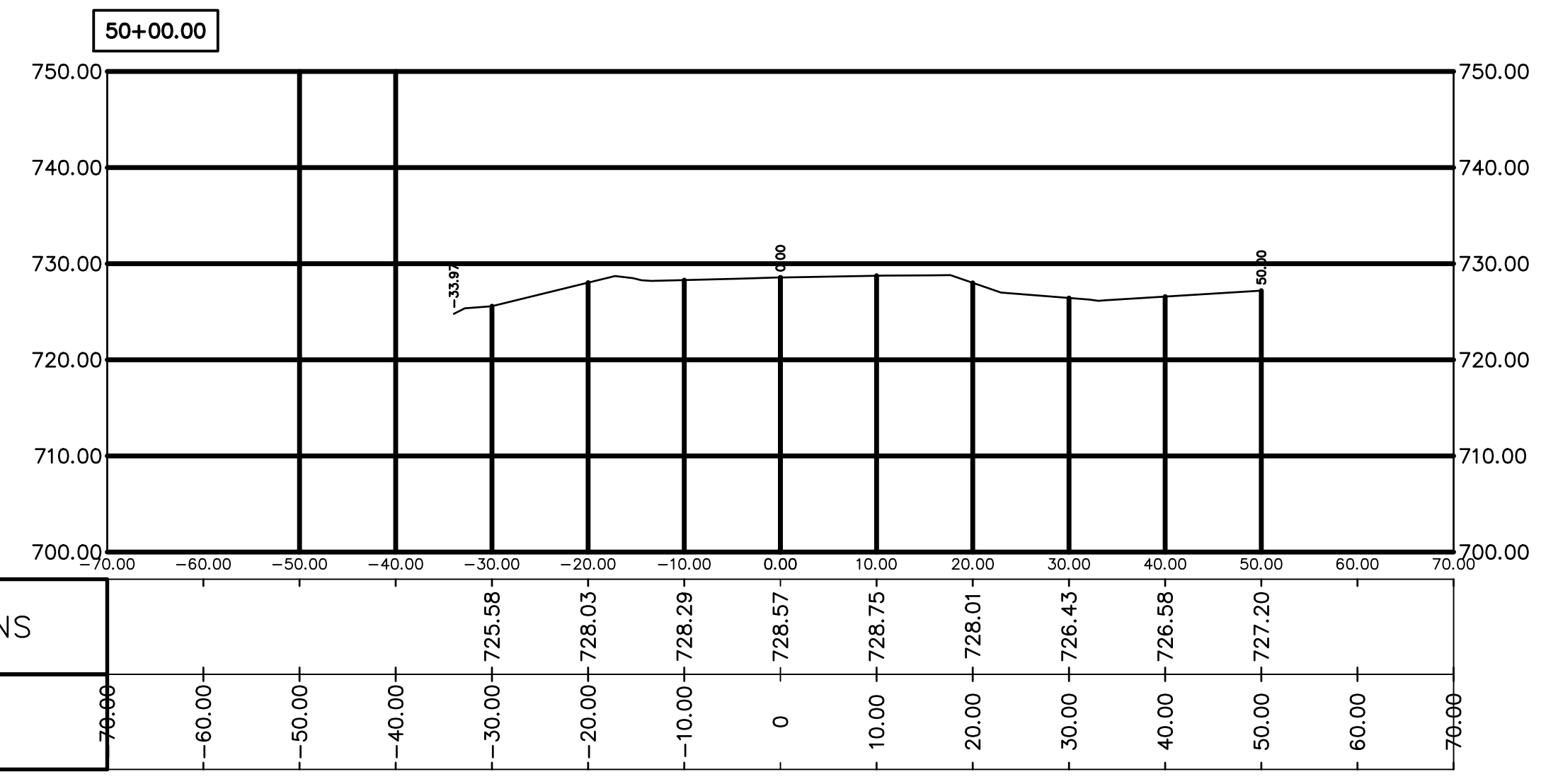


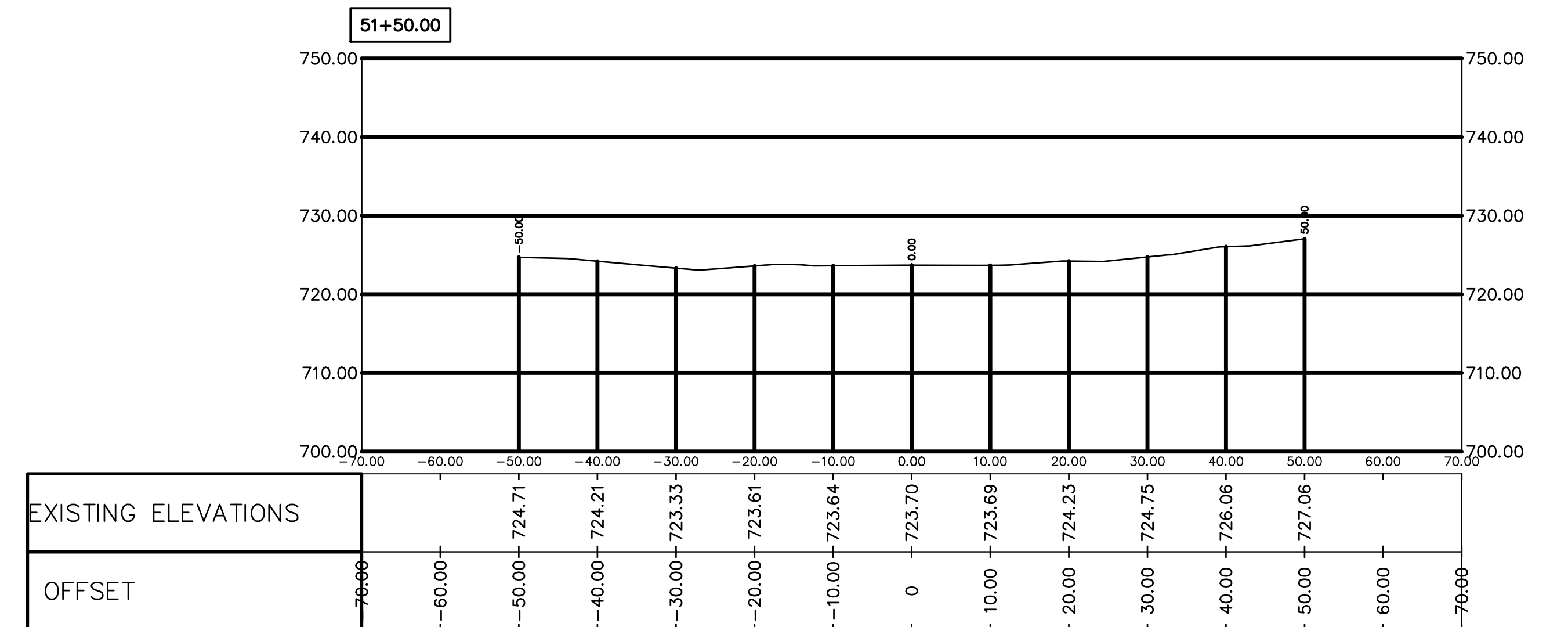
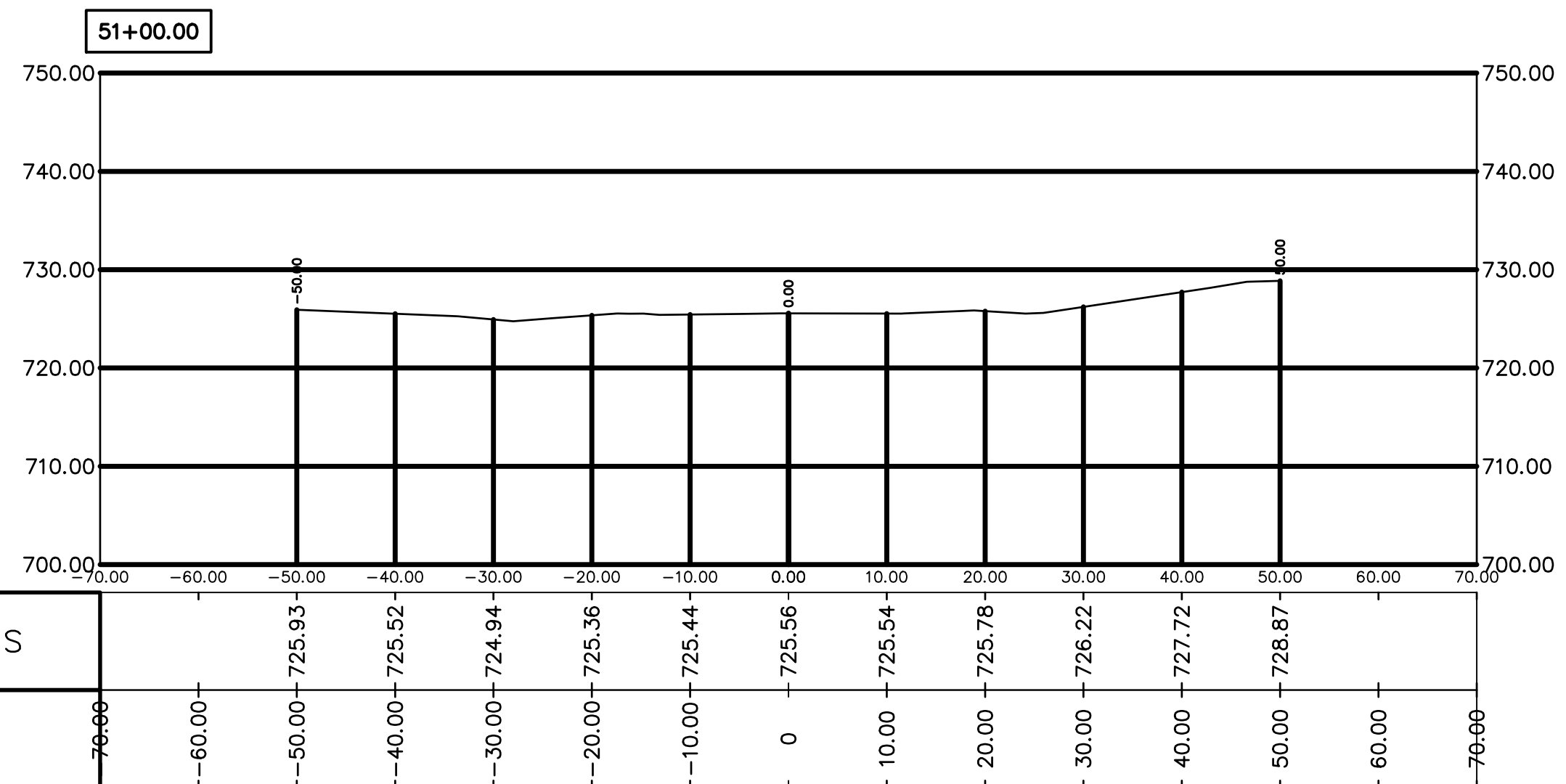
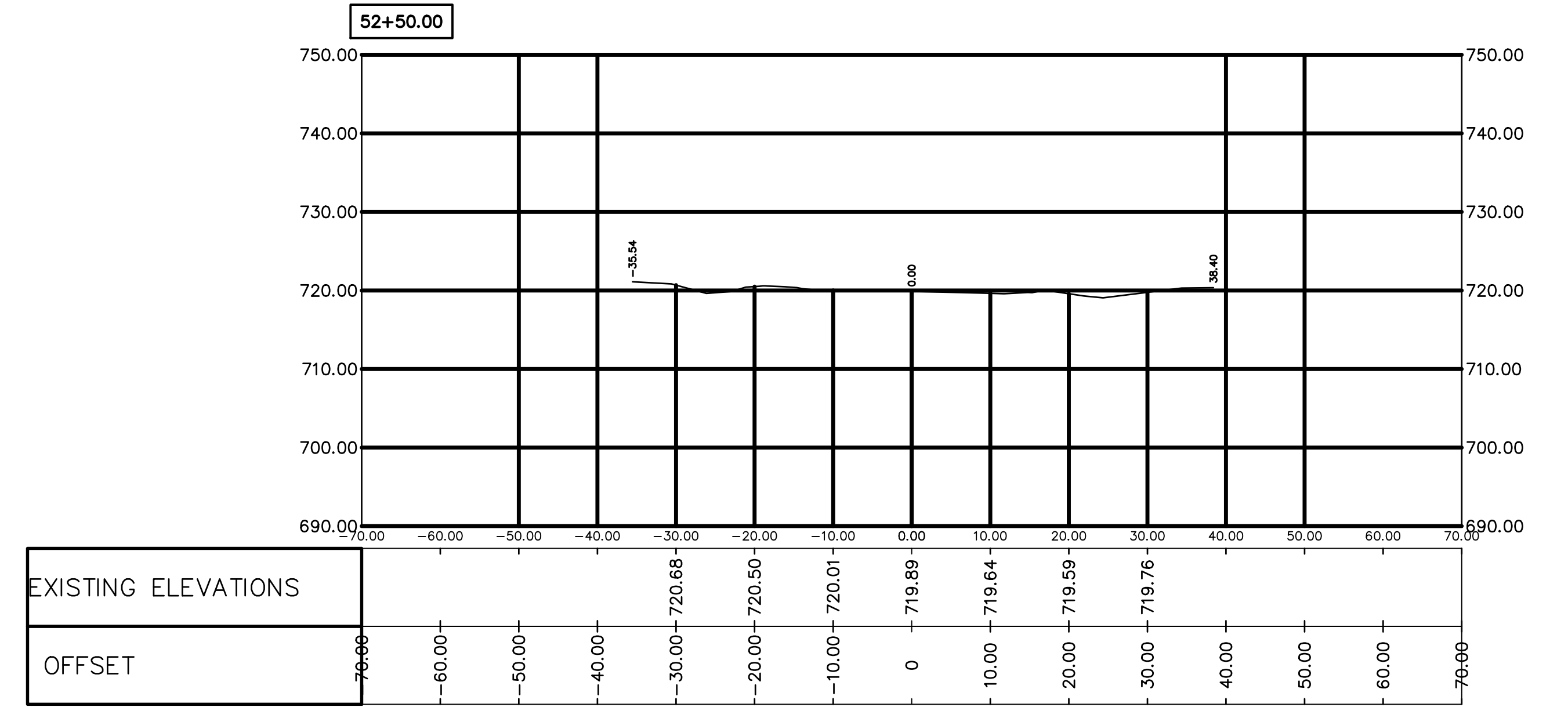
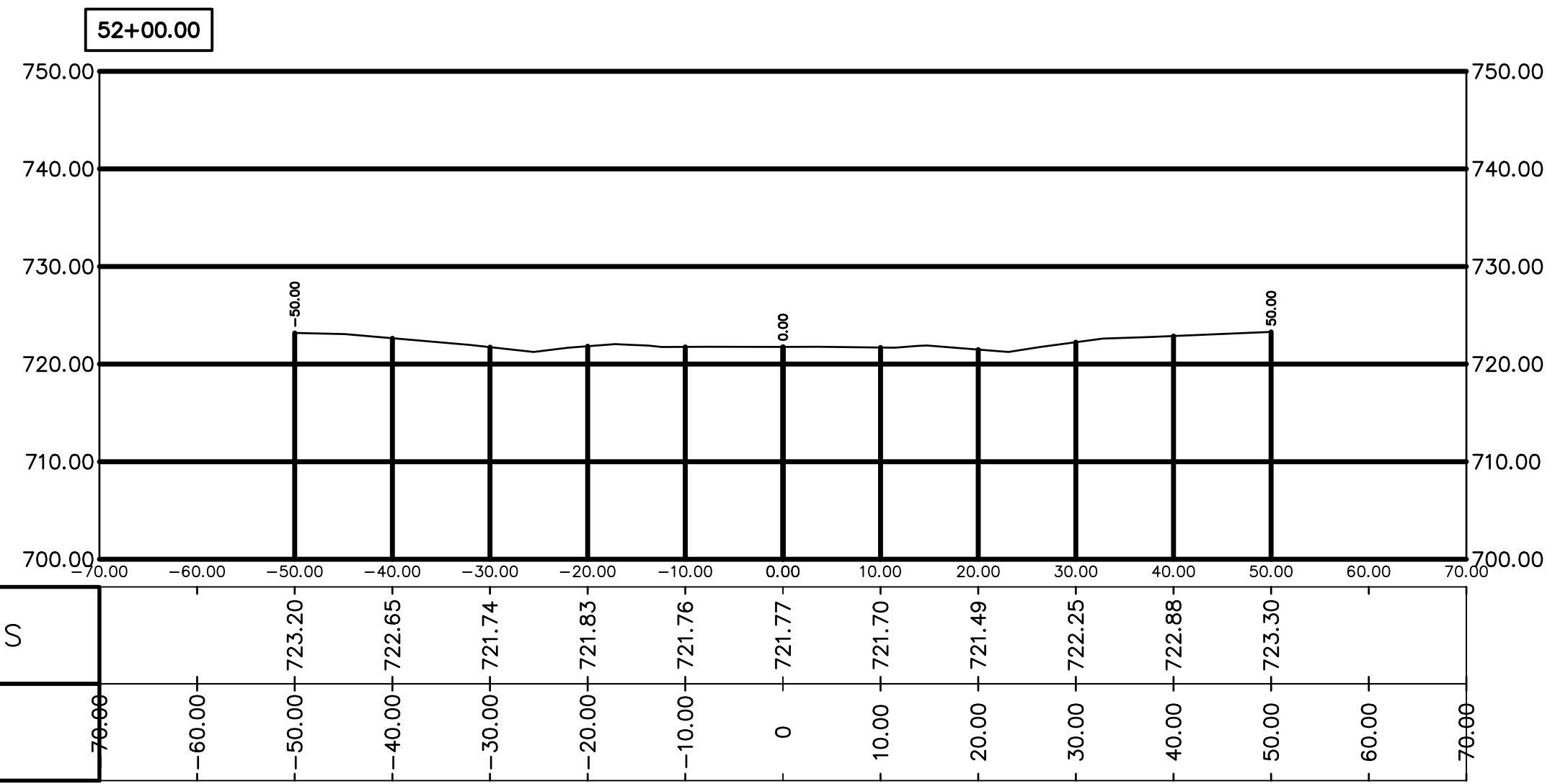
EXISTING ELEVATIONS	76.00	60.00	50.00	40.00	30.00	20.00	10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.00	735.83	735.96	736.24	736.19	737.11	738.54	739.14	740.42						



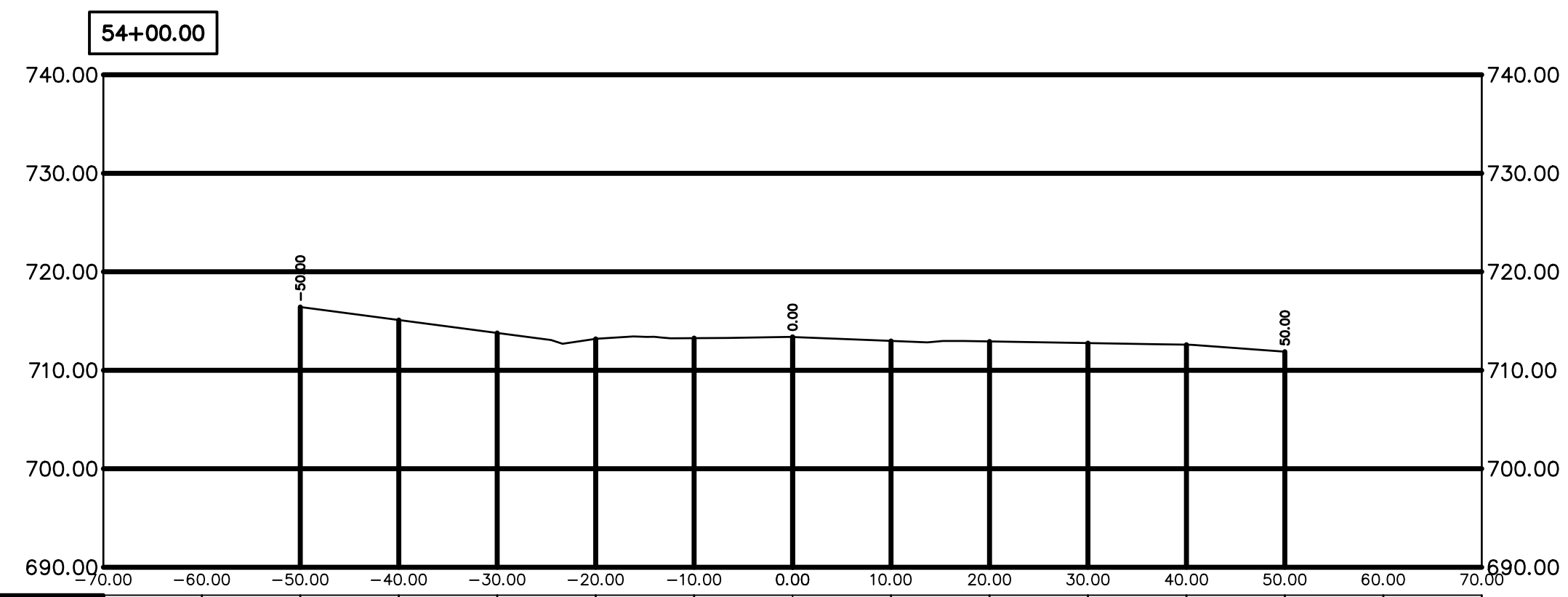
EXISTING ELEVATIONS	76.00	60.00	50.00	40.00	30.00	20.00	10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.00	733.21	735.05	735.14	735.29	735.26	735.62	736.01	736.52	737.02					

S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (18) - 2/27/2024 11:24:57 AM Eric

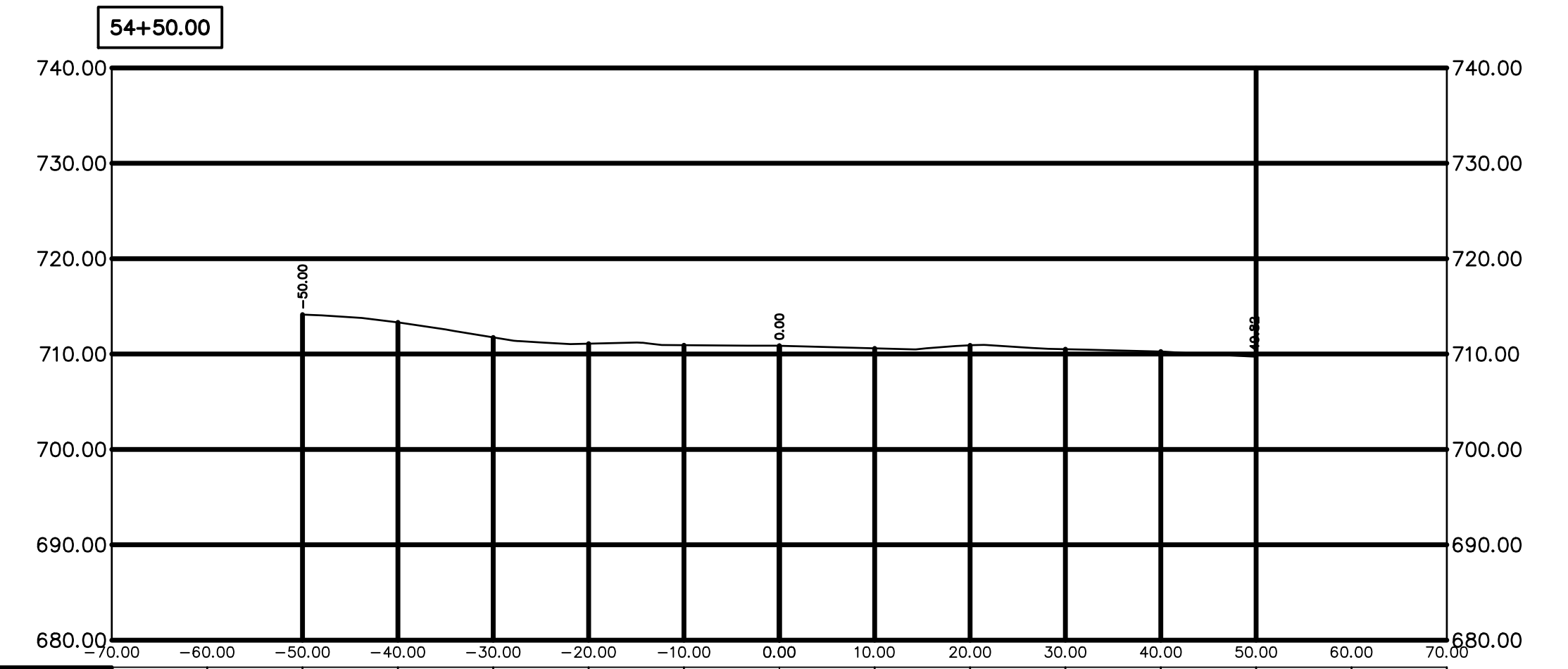




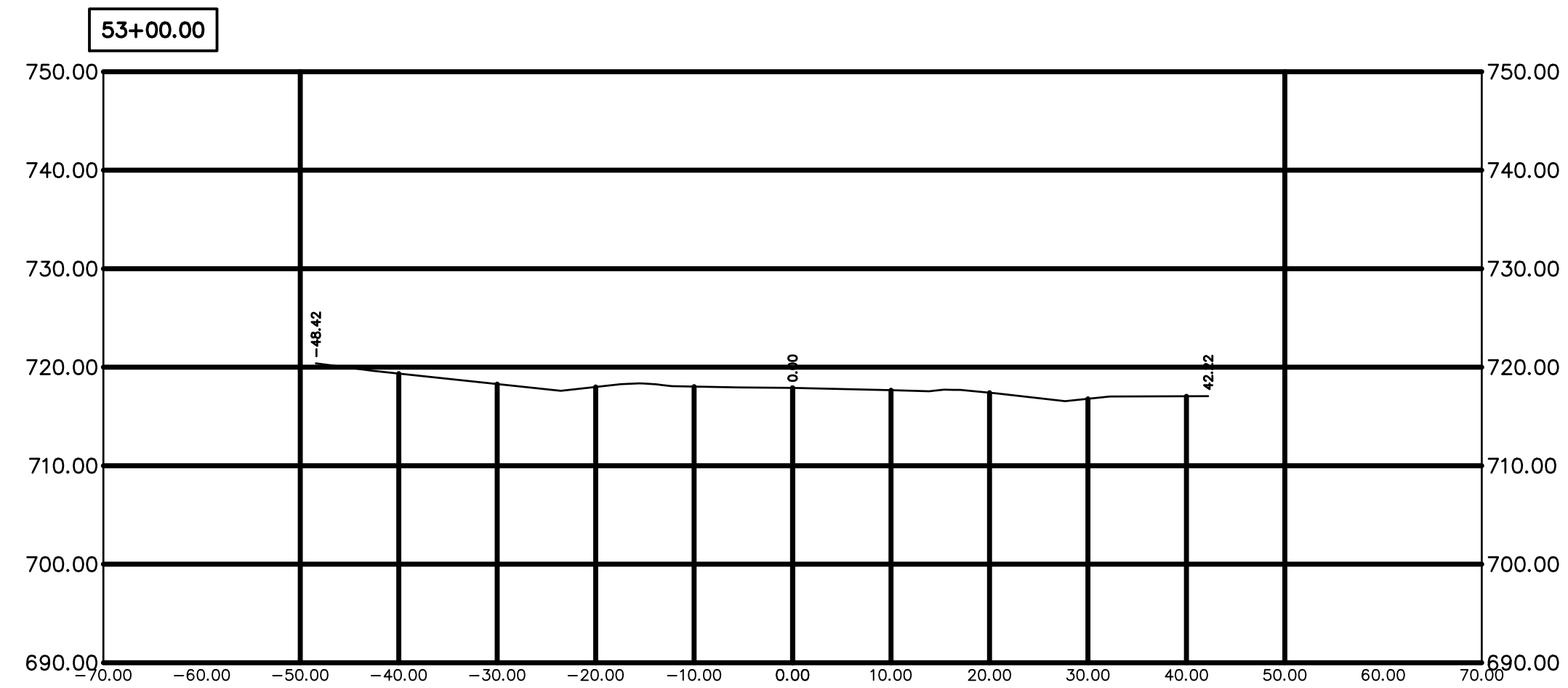
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (23) - 2/27/2024 11:26:38 AM Eric



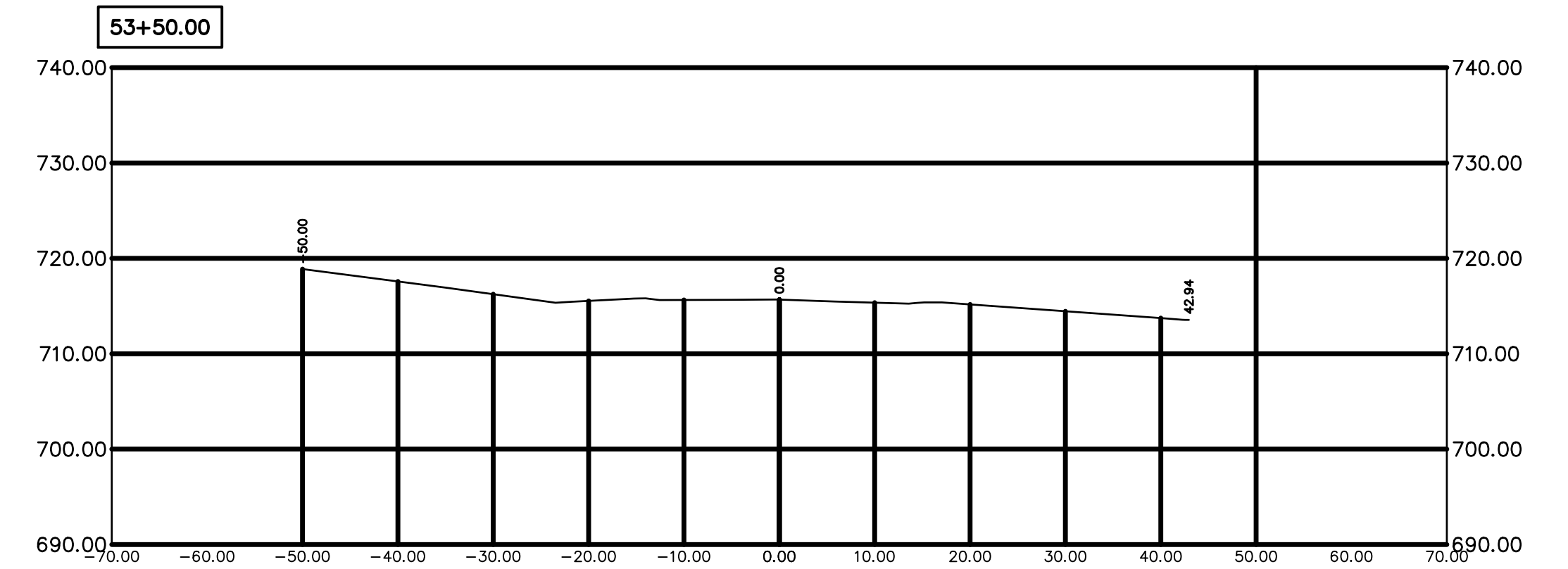
EXISTING ELEVATIONS	70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.66	60.00	716.42	715.10	713.79	713.19	713.27	713.37	712.98	712.93	712.76	712.50	711.89	60.00	76.66



EXISTING ELEVATIONS	70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.66	60.00	714.14	713.32	711.74	711.09	710.93	710.86	710.60	710.92	710.51	710.27	60.00	76.66	

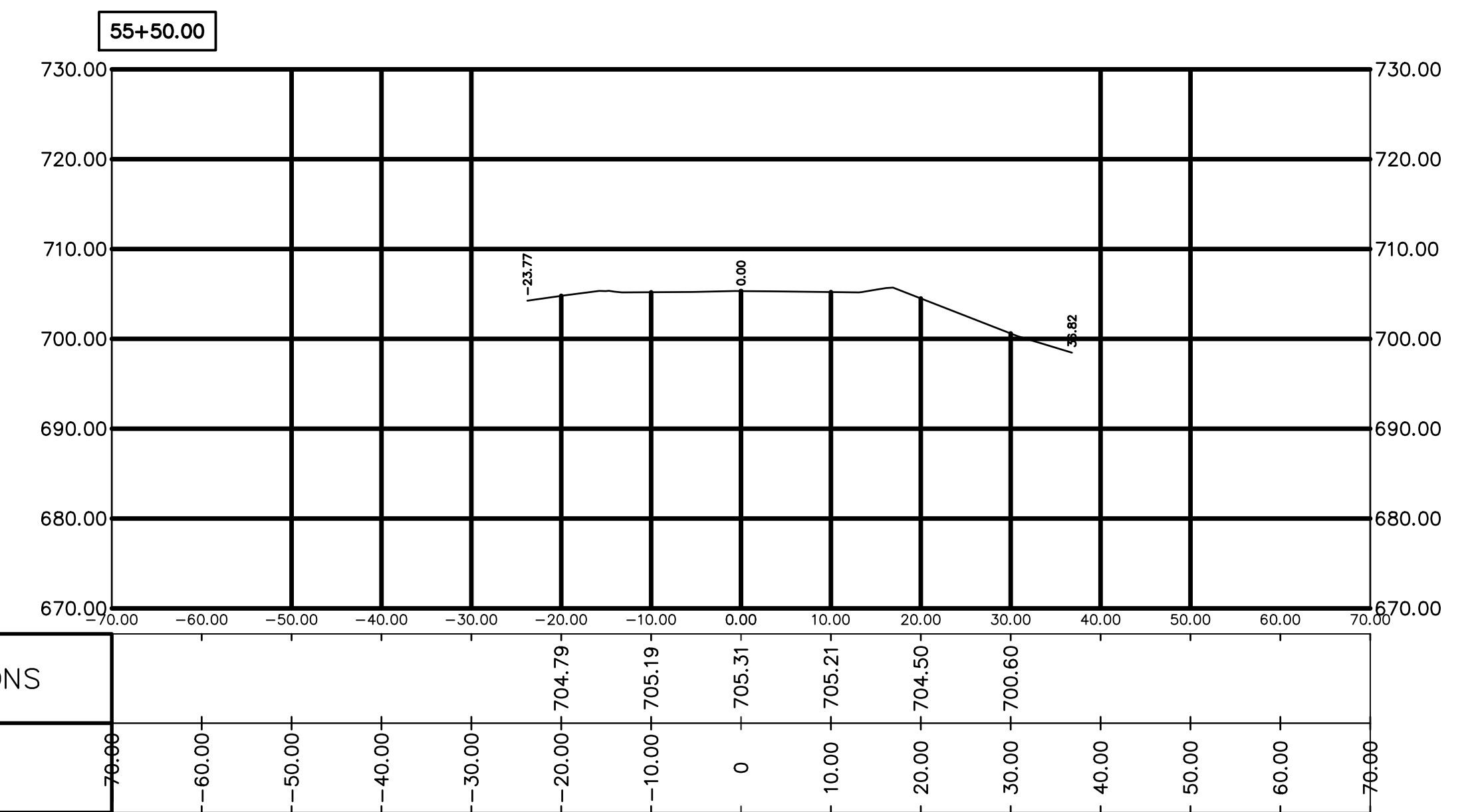
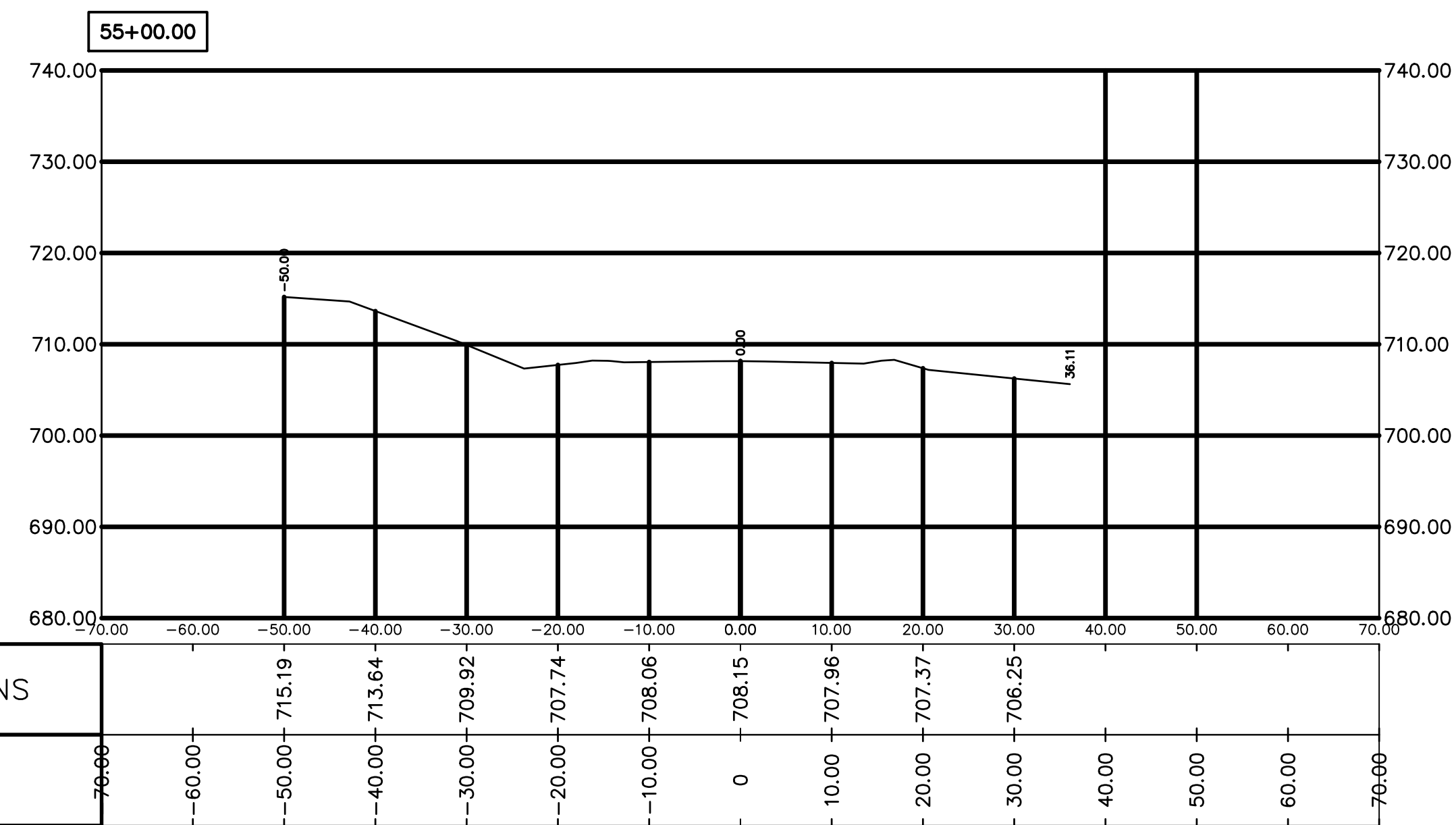
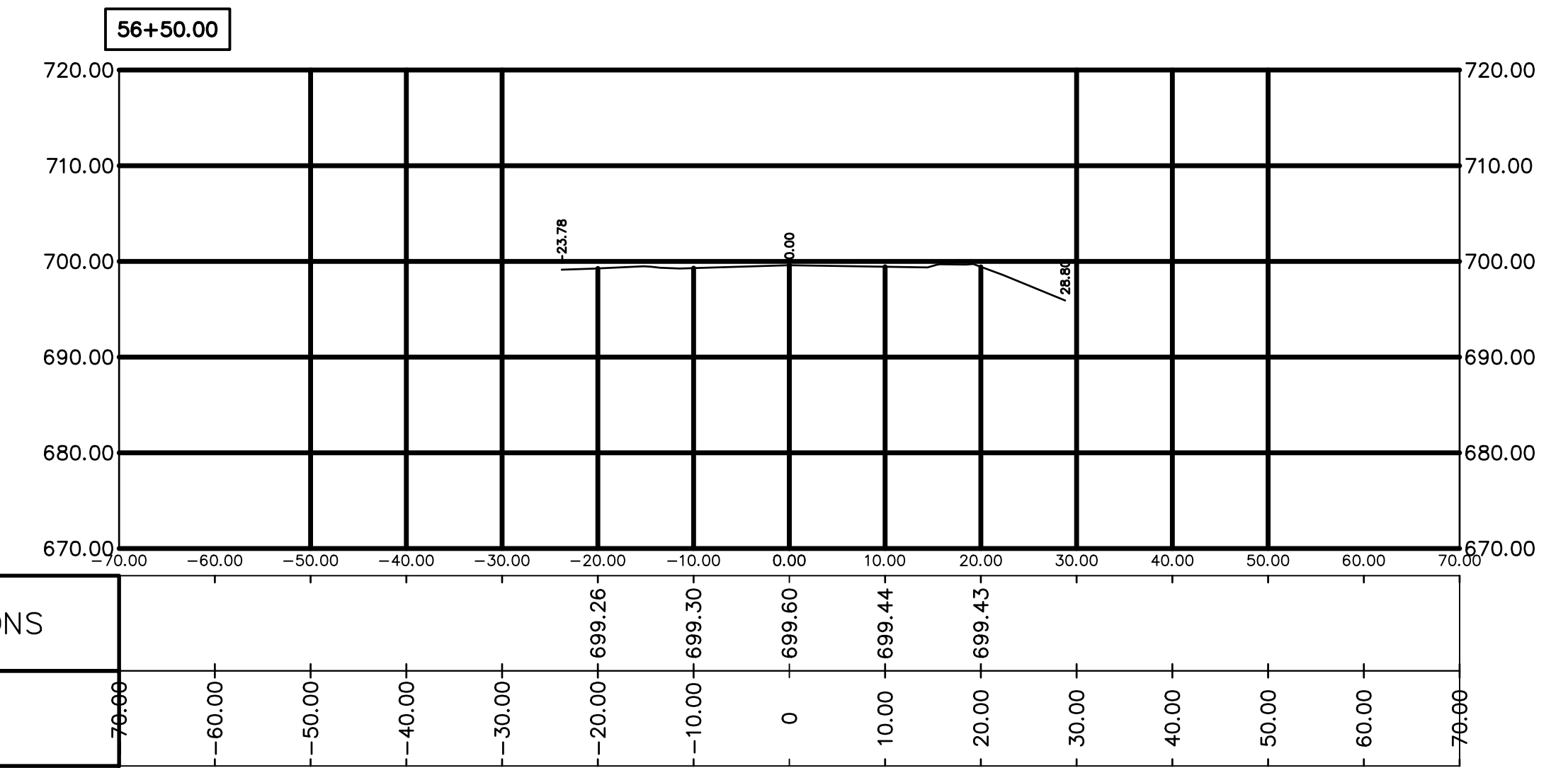
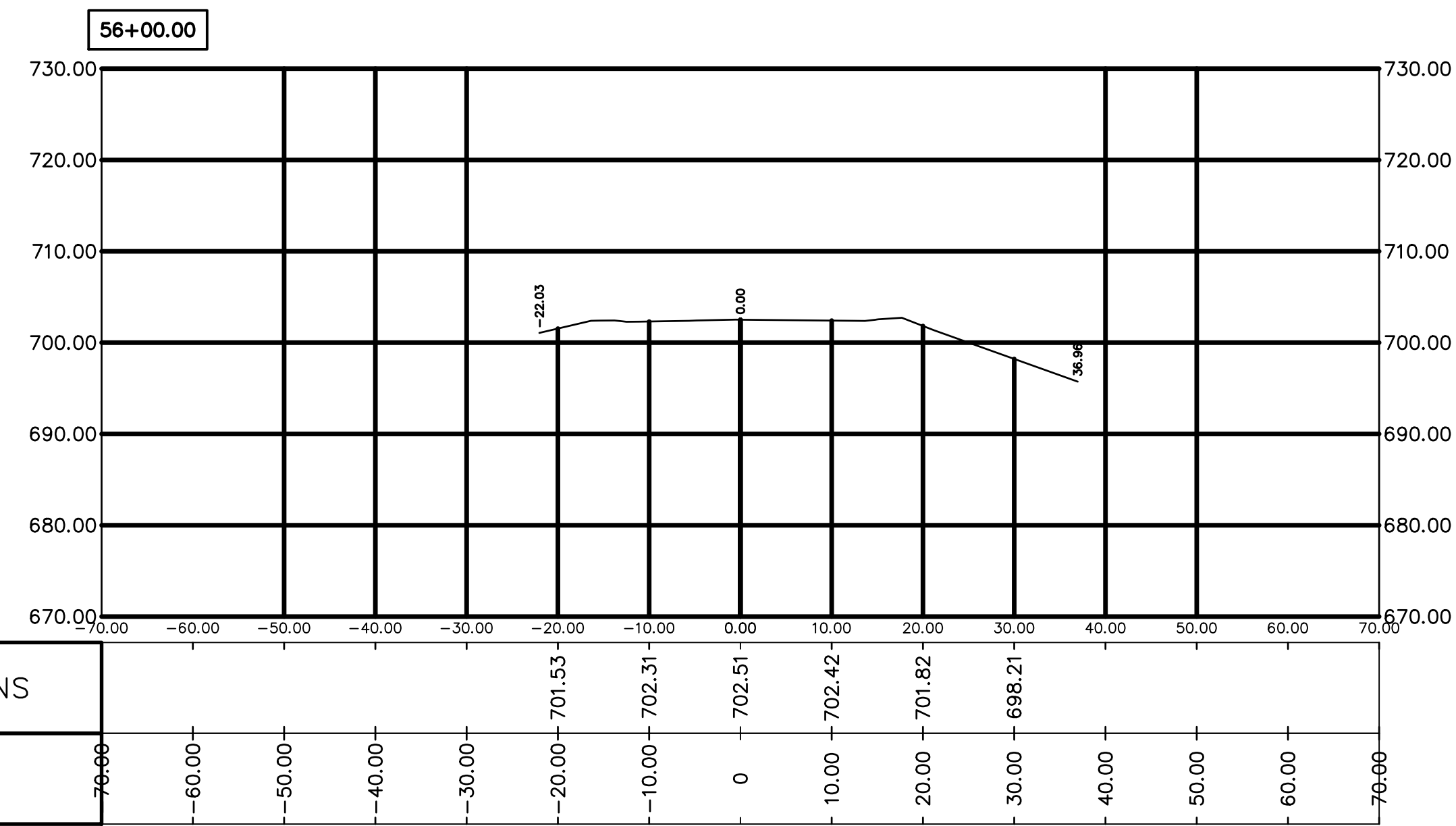


EXISTING ELEVATIONS	70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.66	60.00	719.35	718.29	717.99	718.03	717.89	717.66	717.41	716.79	717.05	717.05	60.00	76.66	

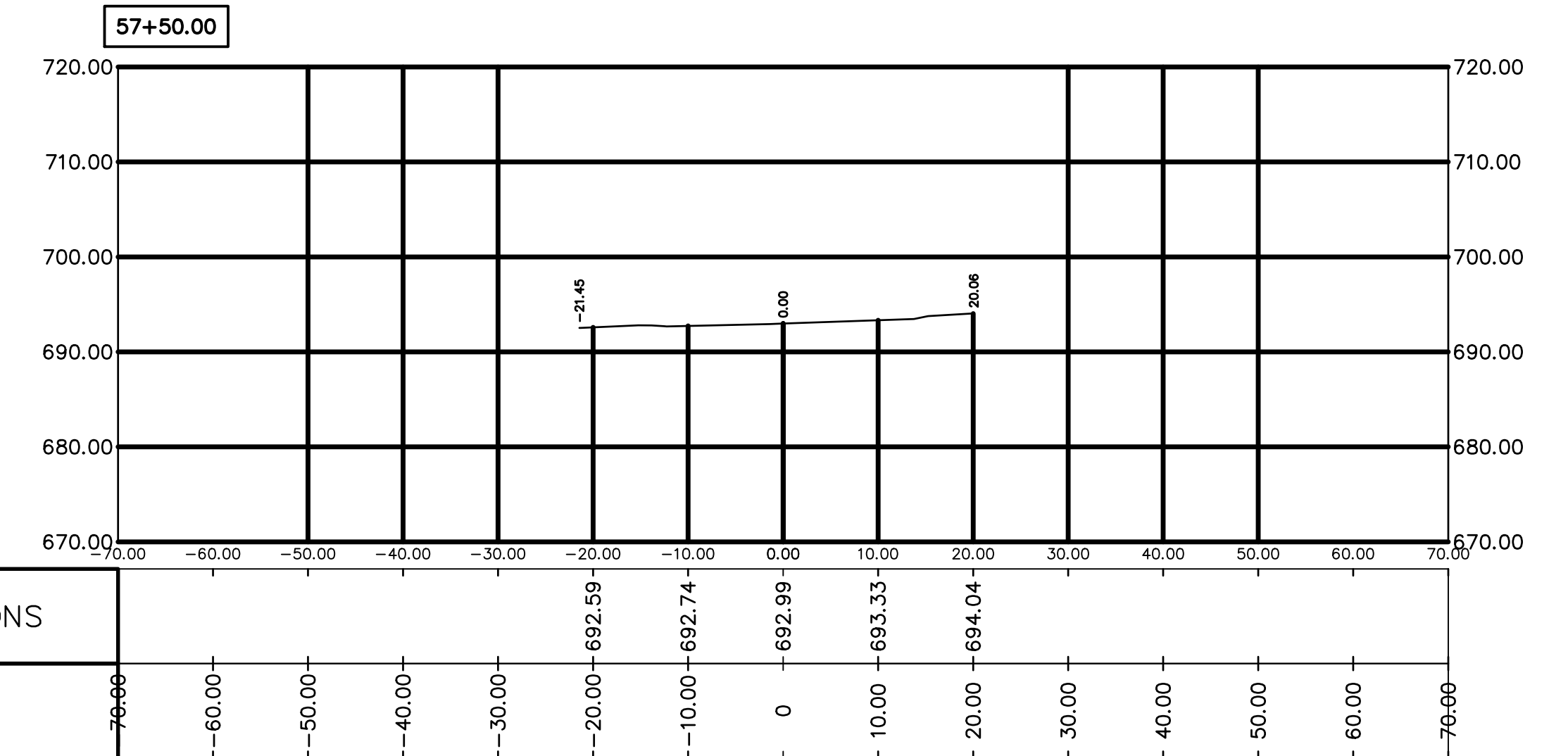
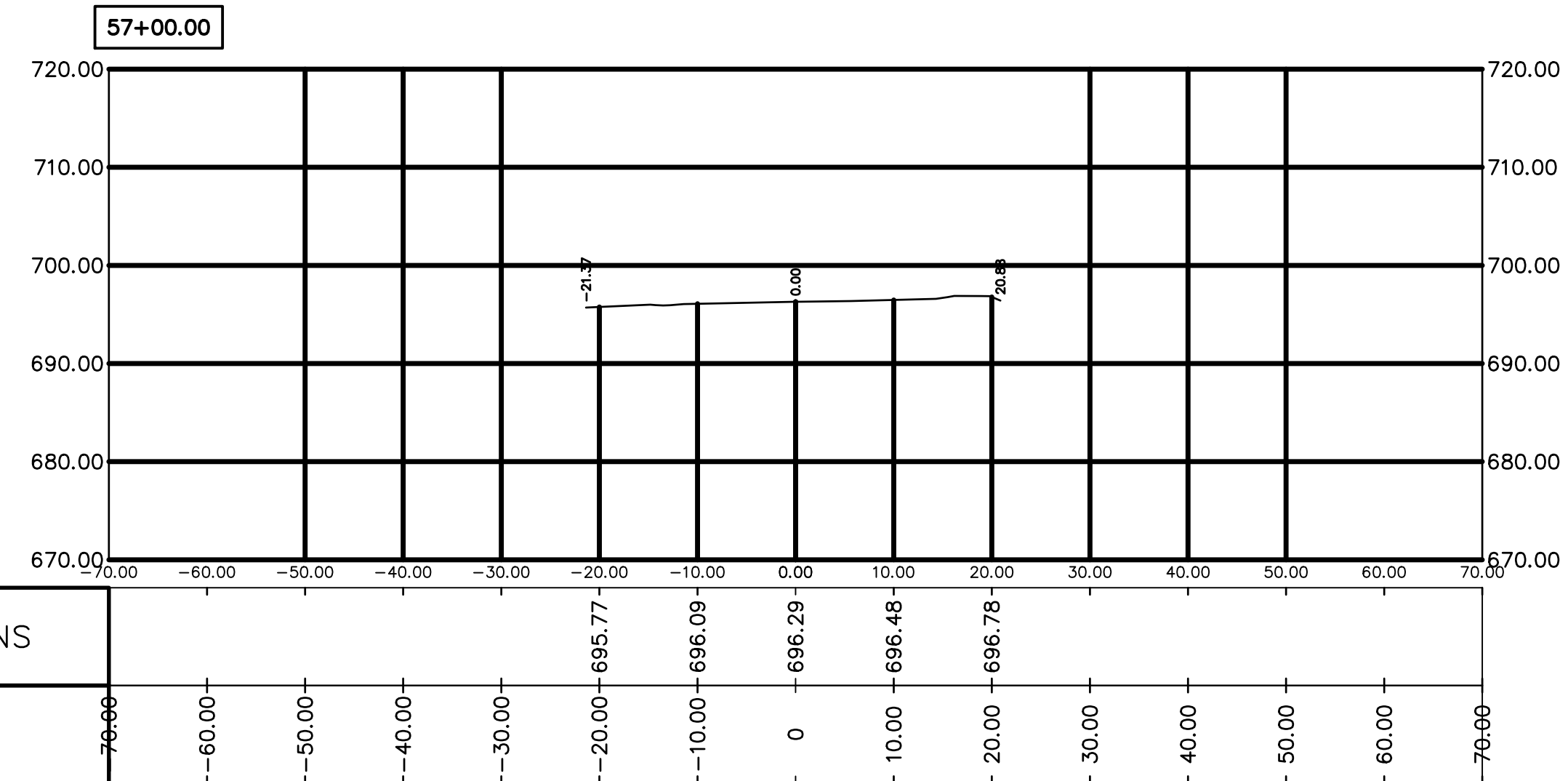
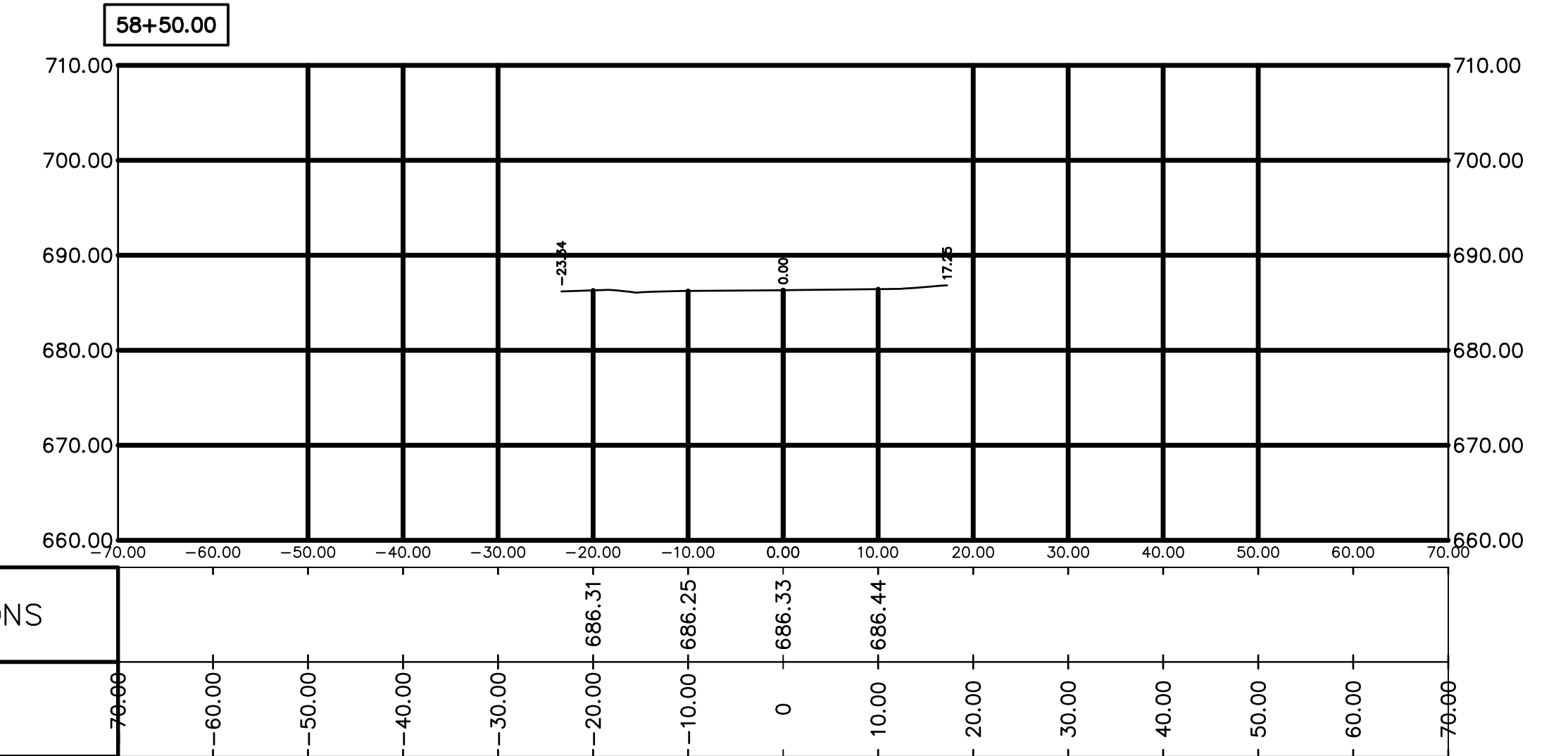
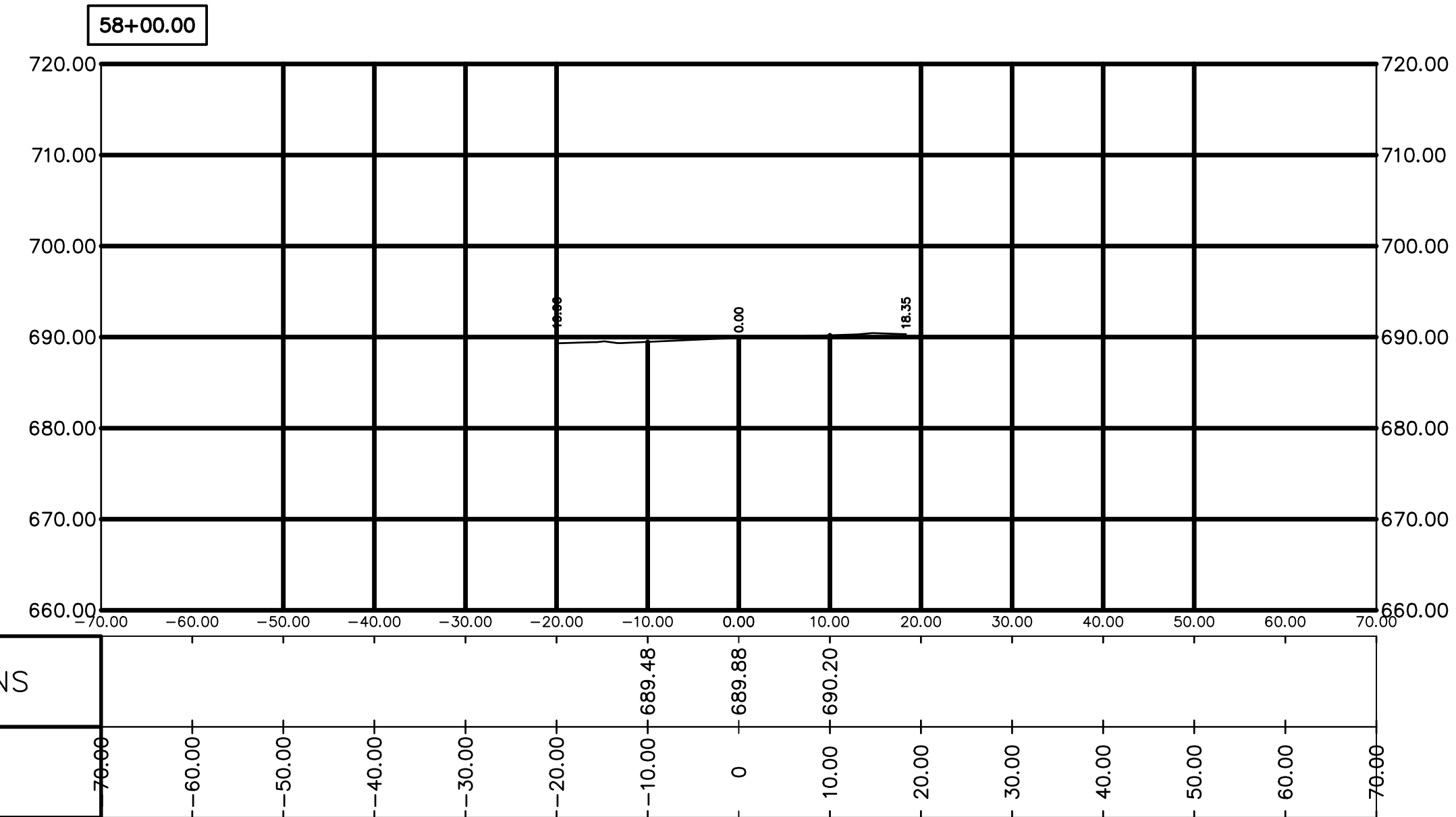


EXISTING ELEVATIONS	70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
OFFSET	76.66	60.00	718.88	717.58	716.24	715.54	715.64	715.68	715.36	715.17	714.45	713.74	60.00	76.66	

S:\CHARLEY\2022 Projects\118 Rd. PM Highway to Lakeshore\CAD\118 - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (24) - 2/27/2024 11:26:38 AM Eric

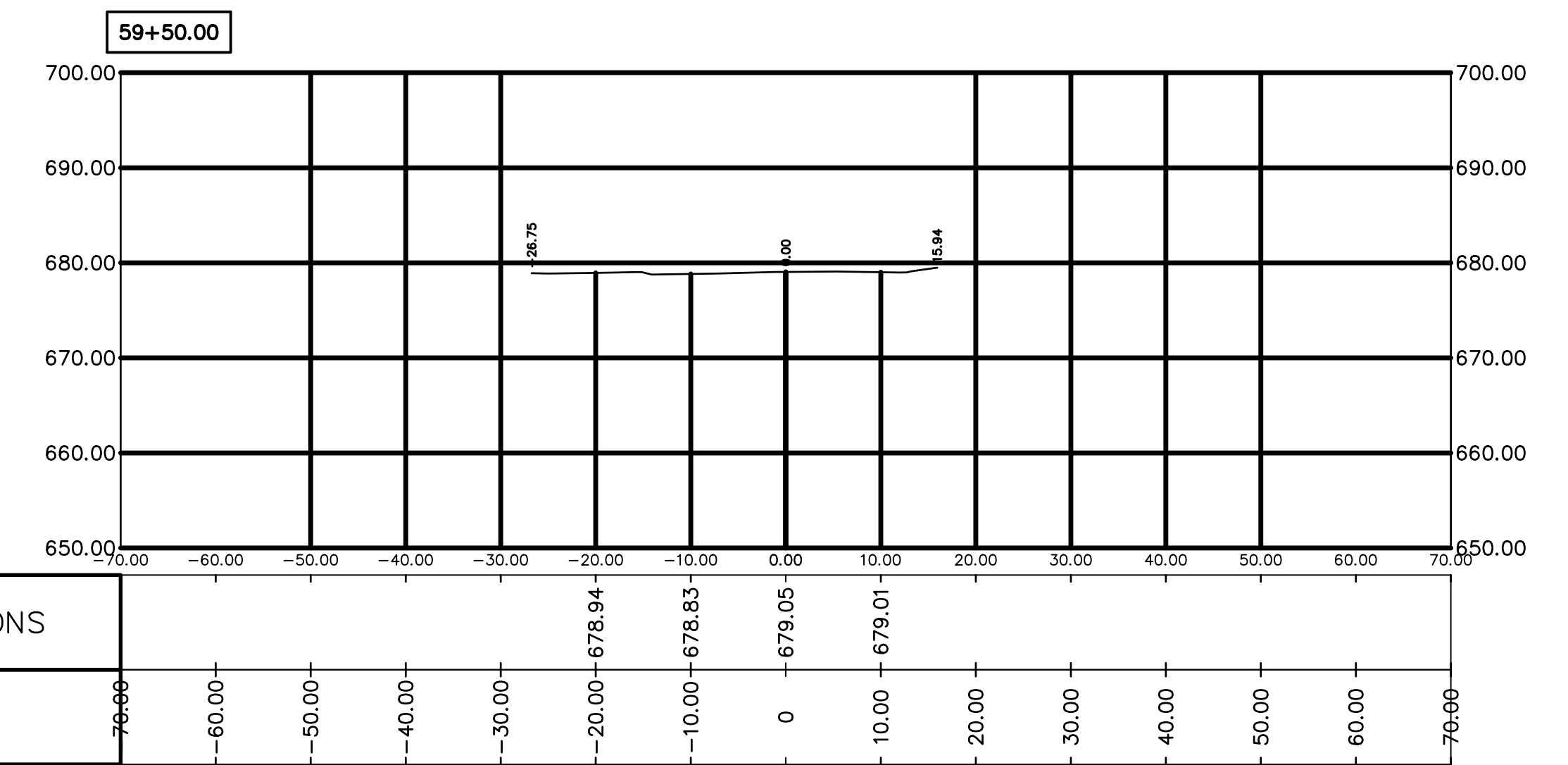
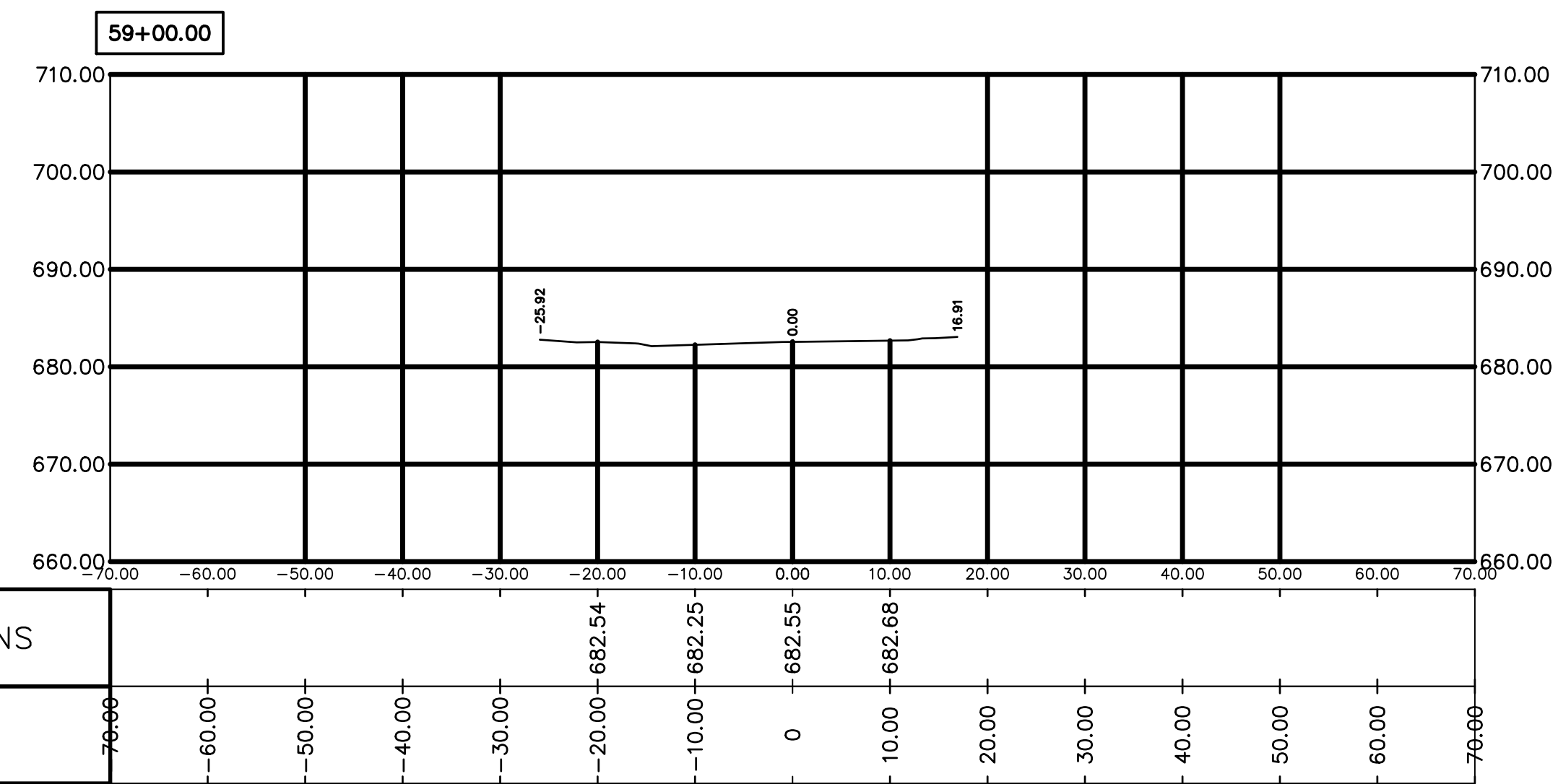
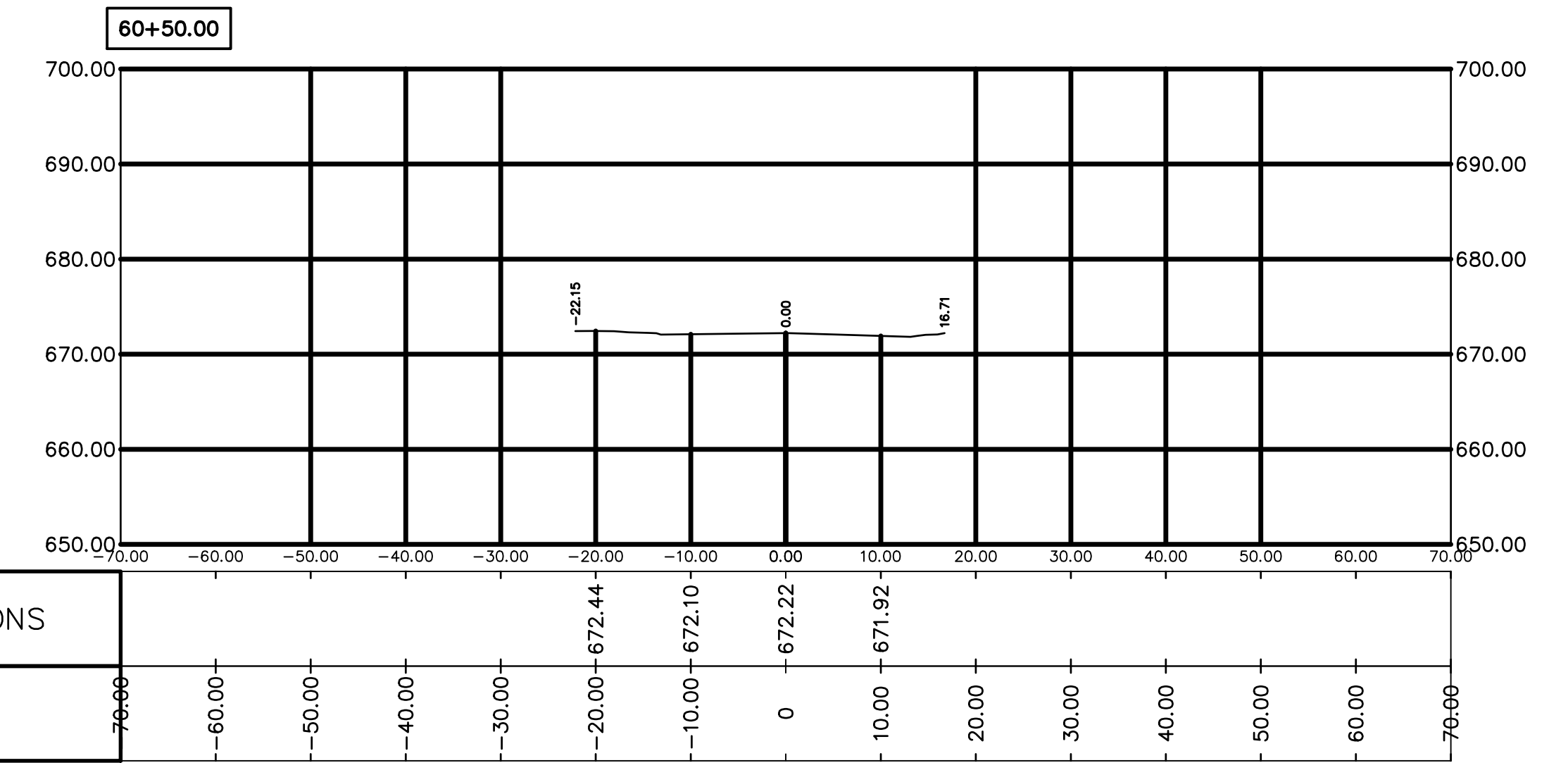
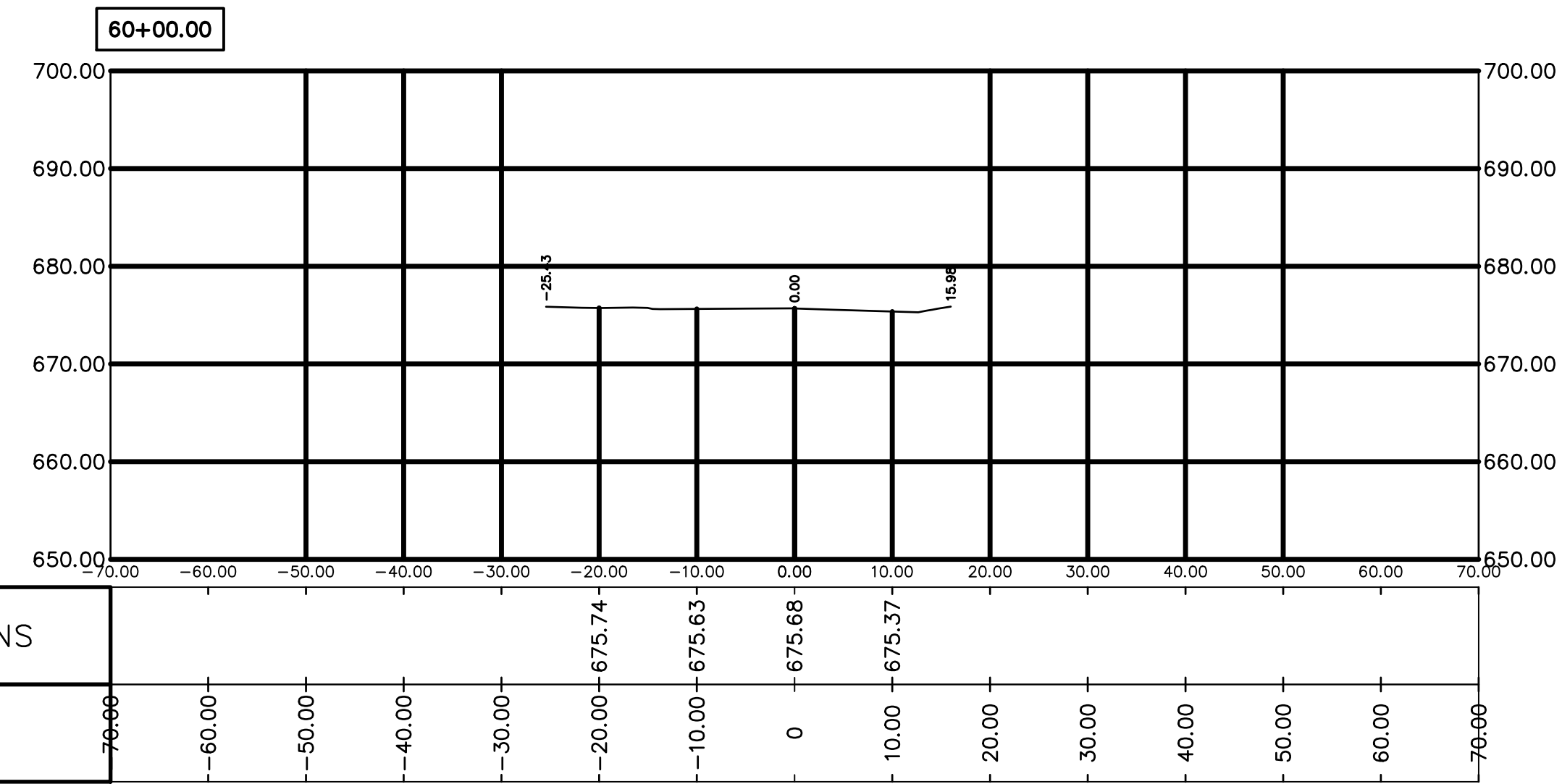


S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (25) - 2/27/2024 11:27:18 AM Eric

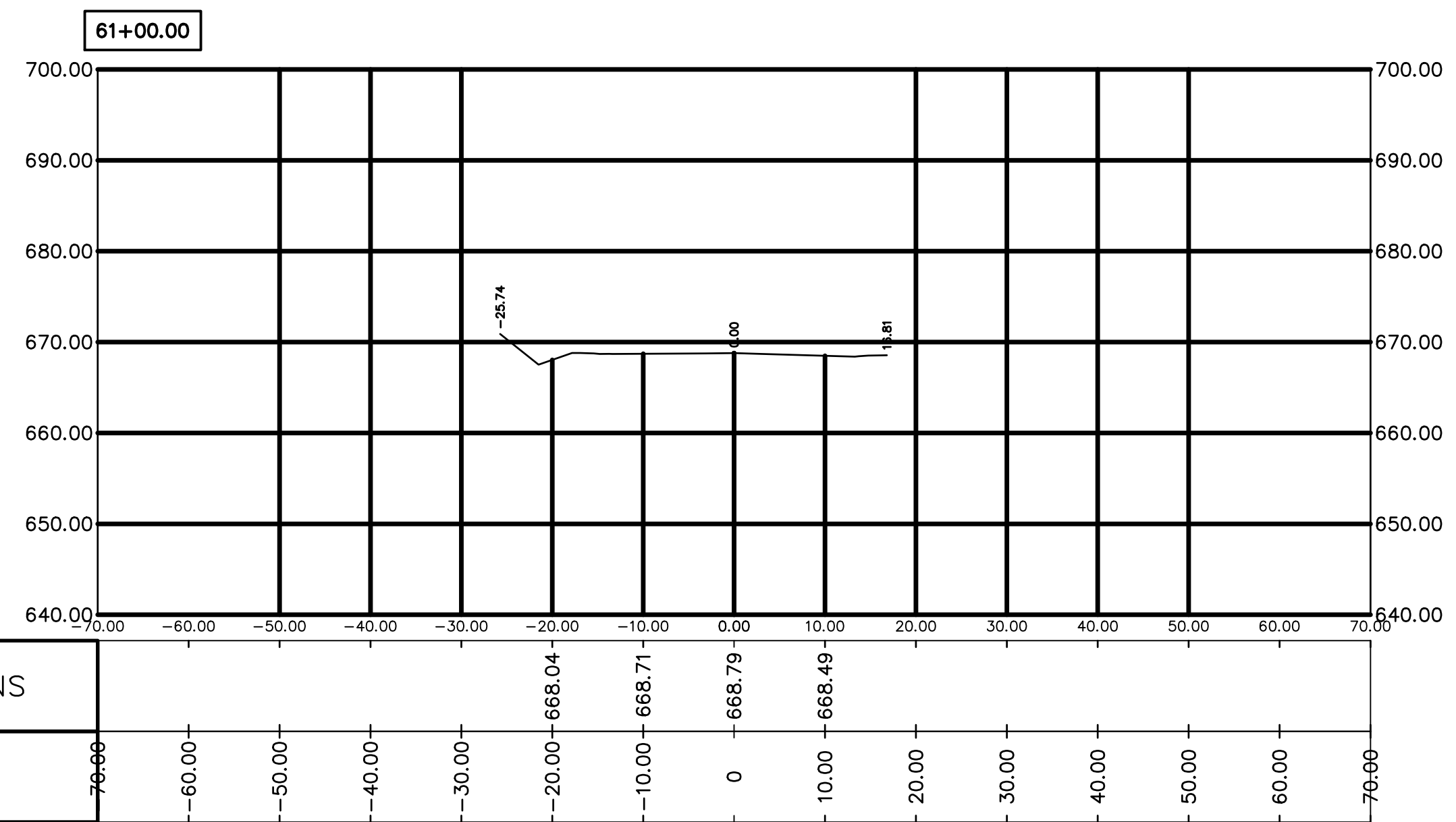
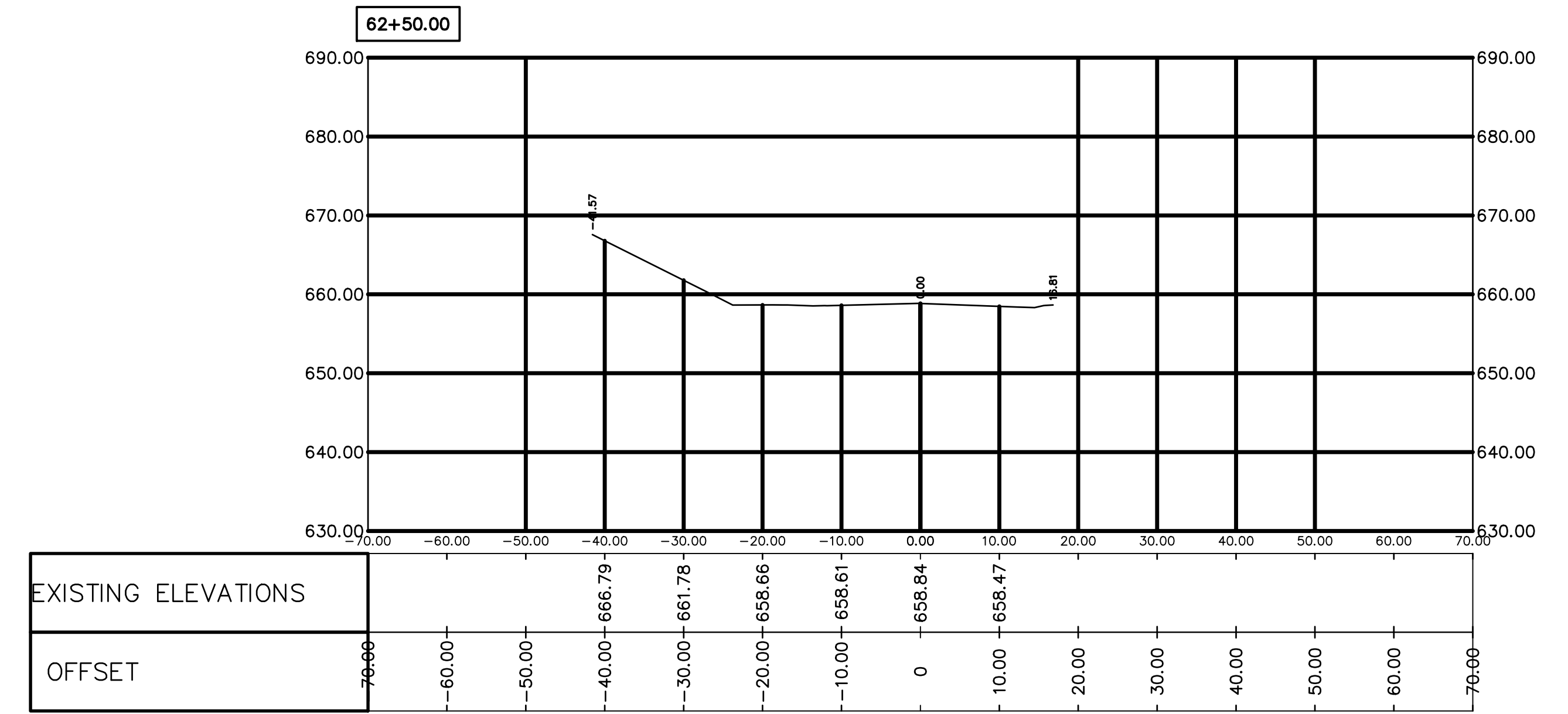
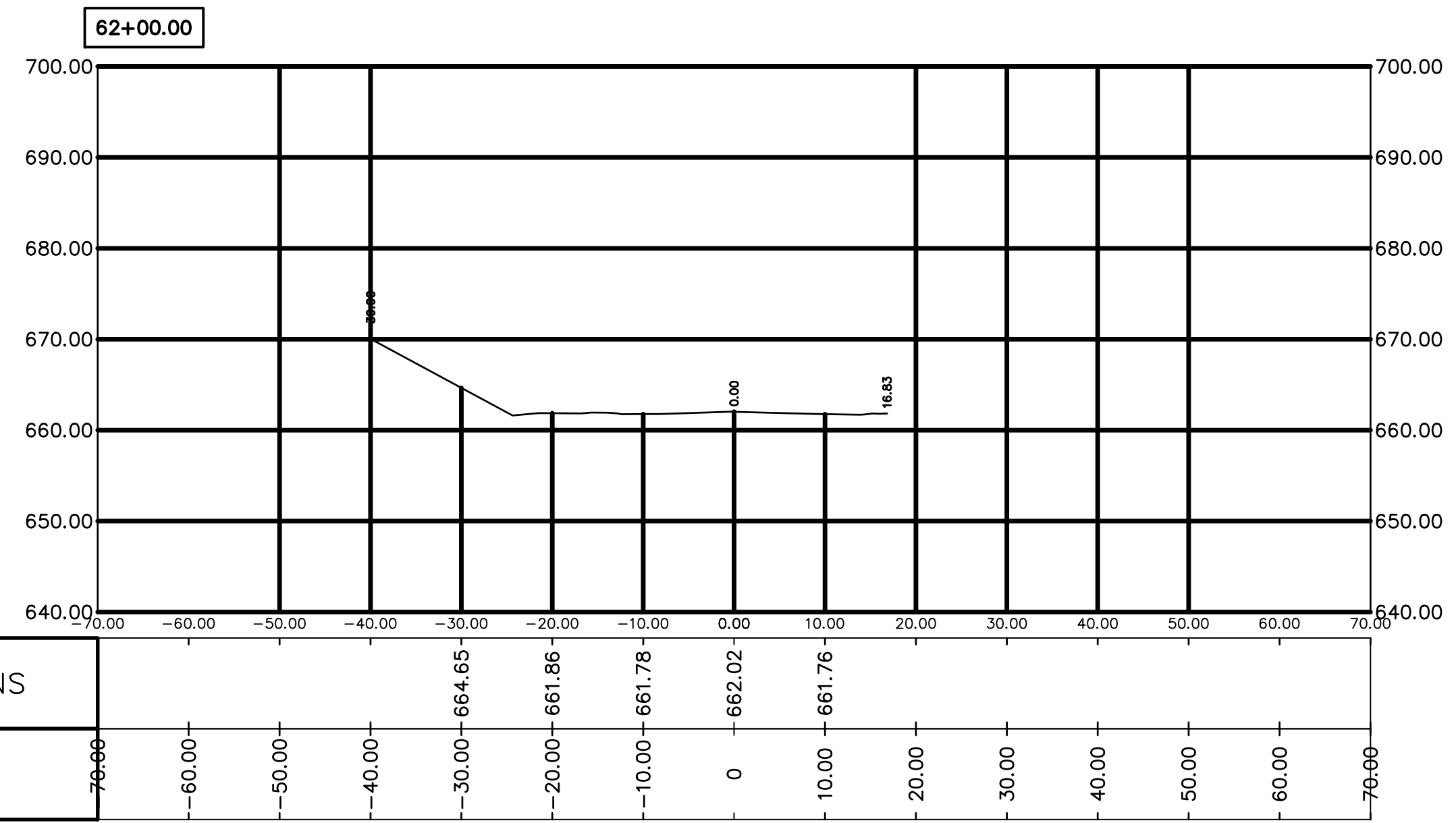




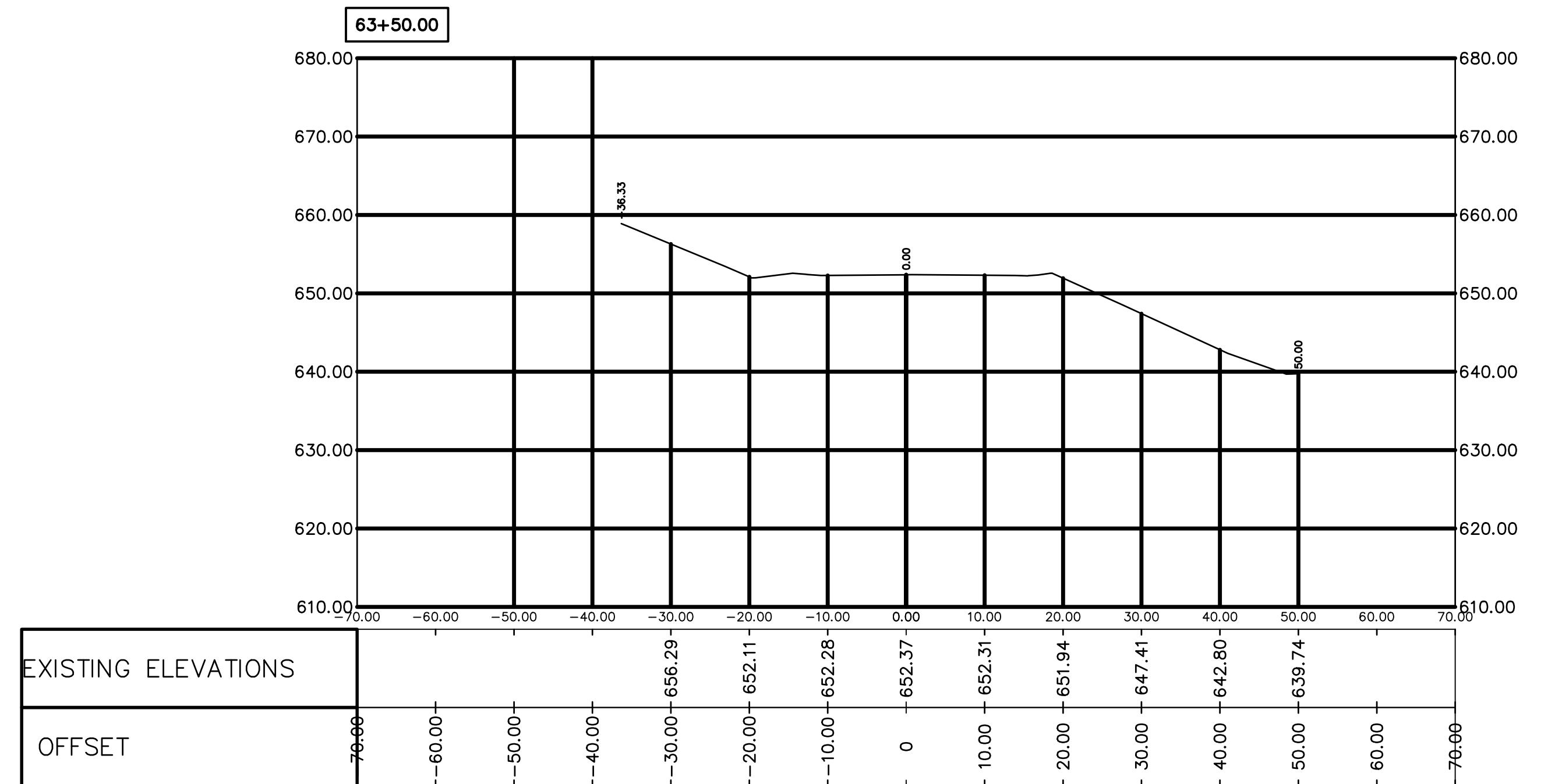
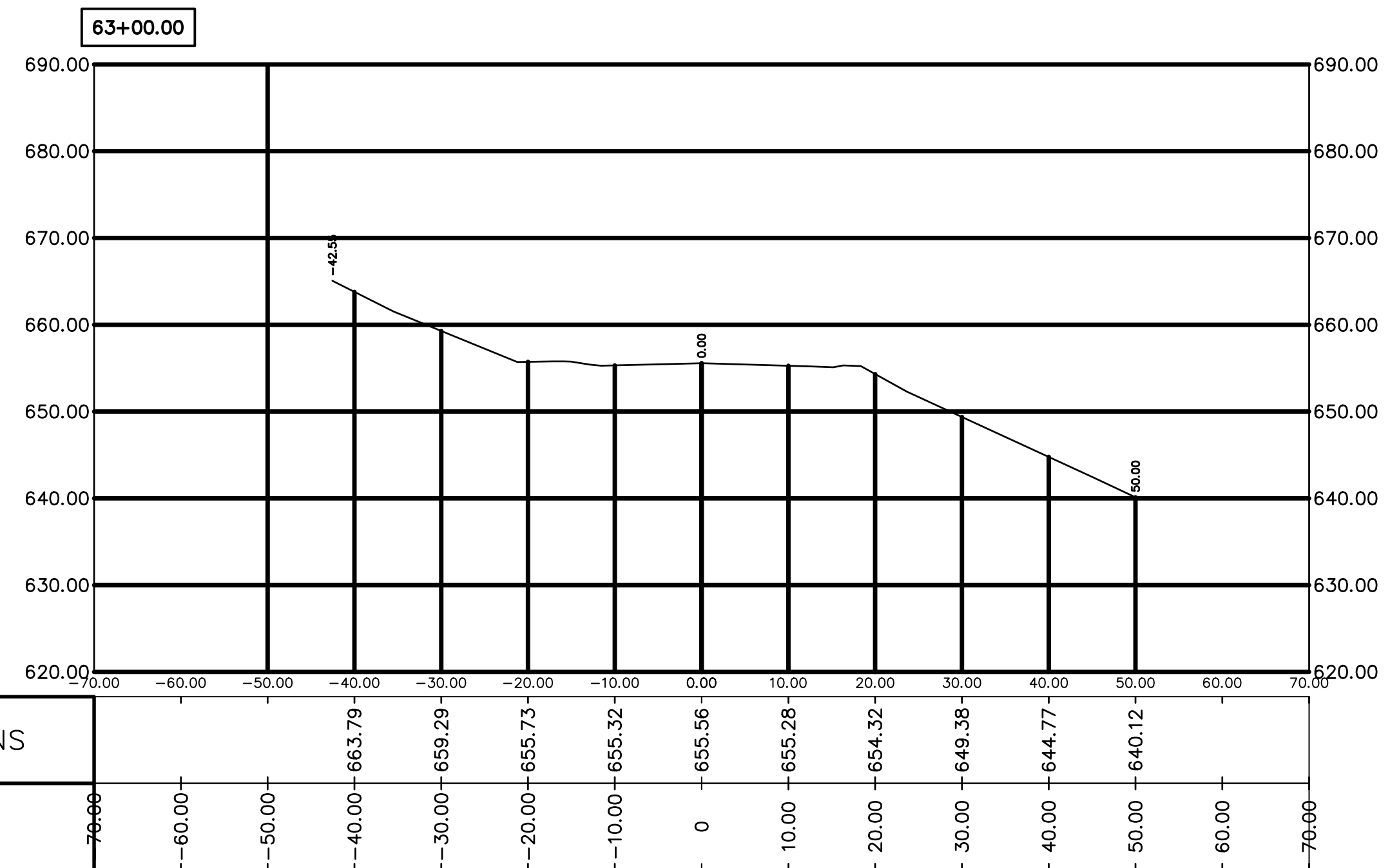
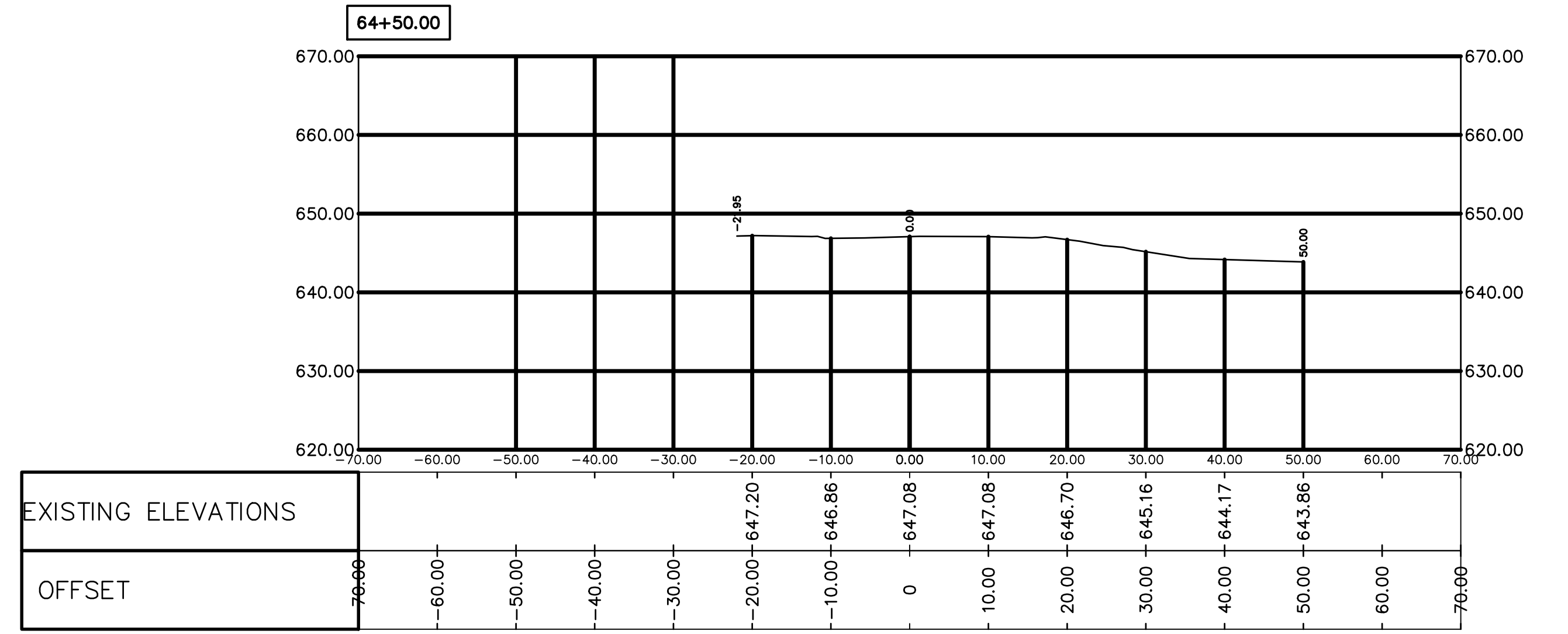
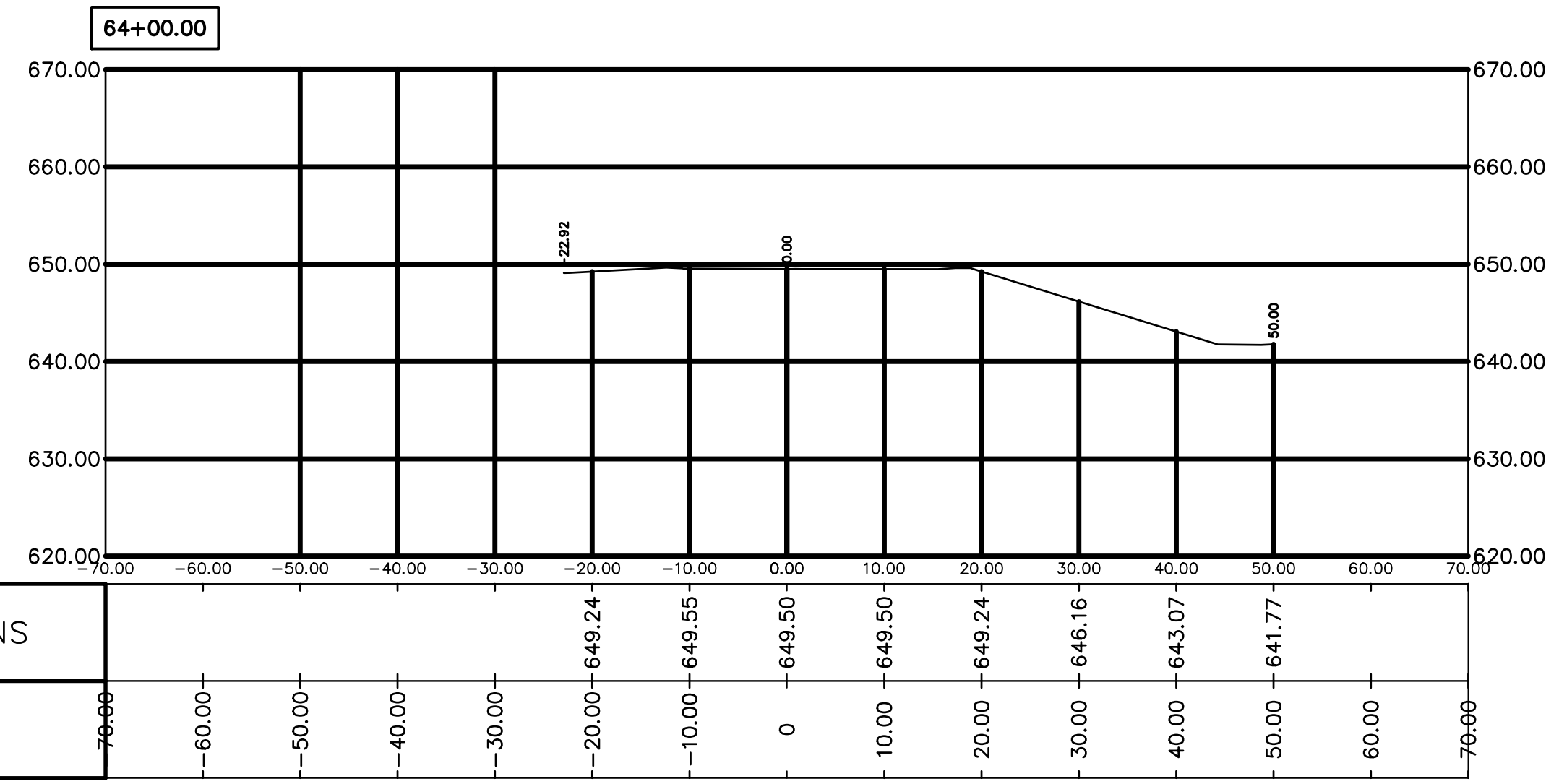
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\CAD\Iris - DESIGN 2-20-2024.dwg - CSI (26) - 2/27/2024 11:27:38 AM Eric



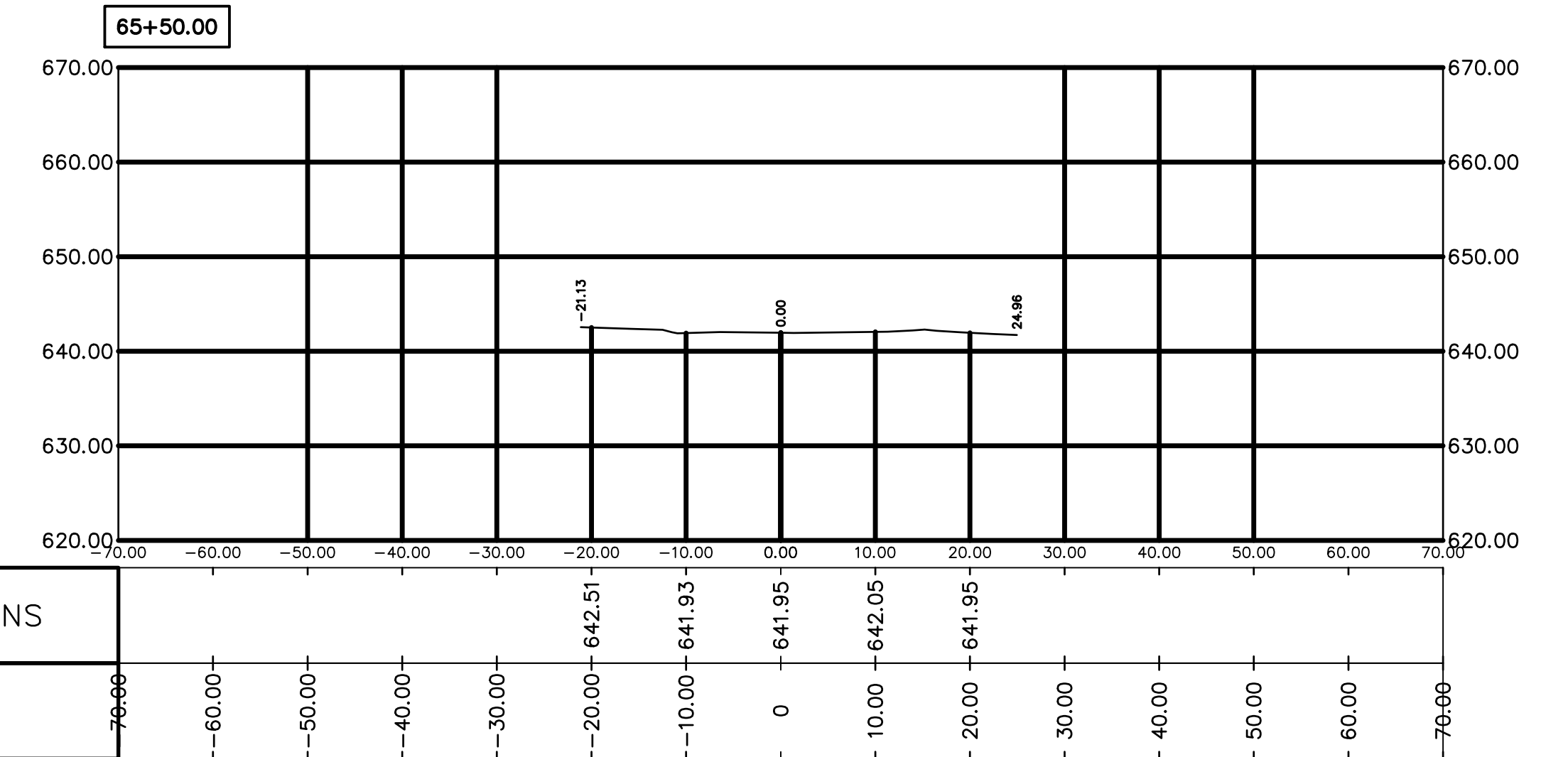
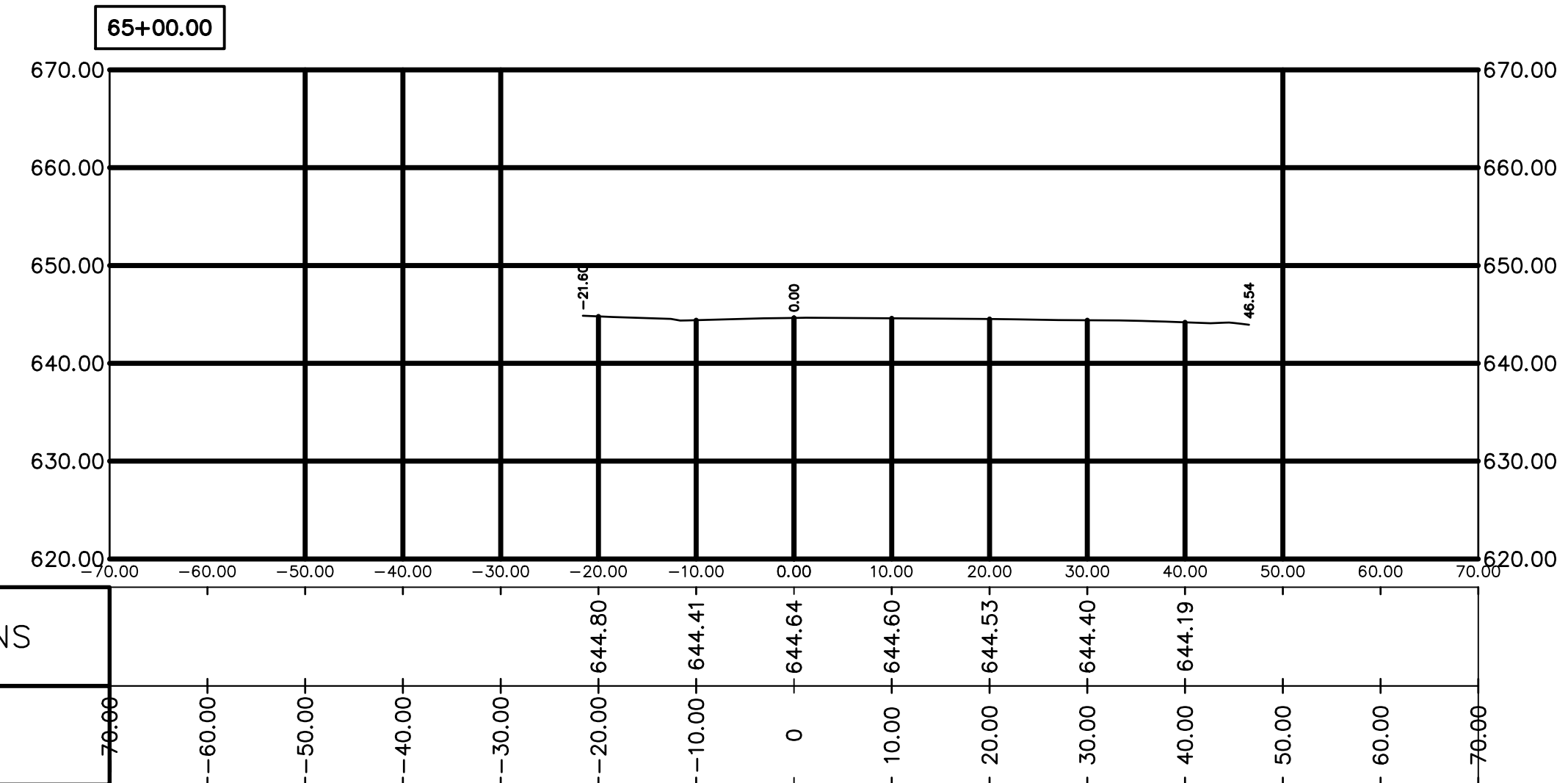
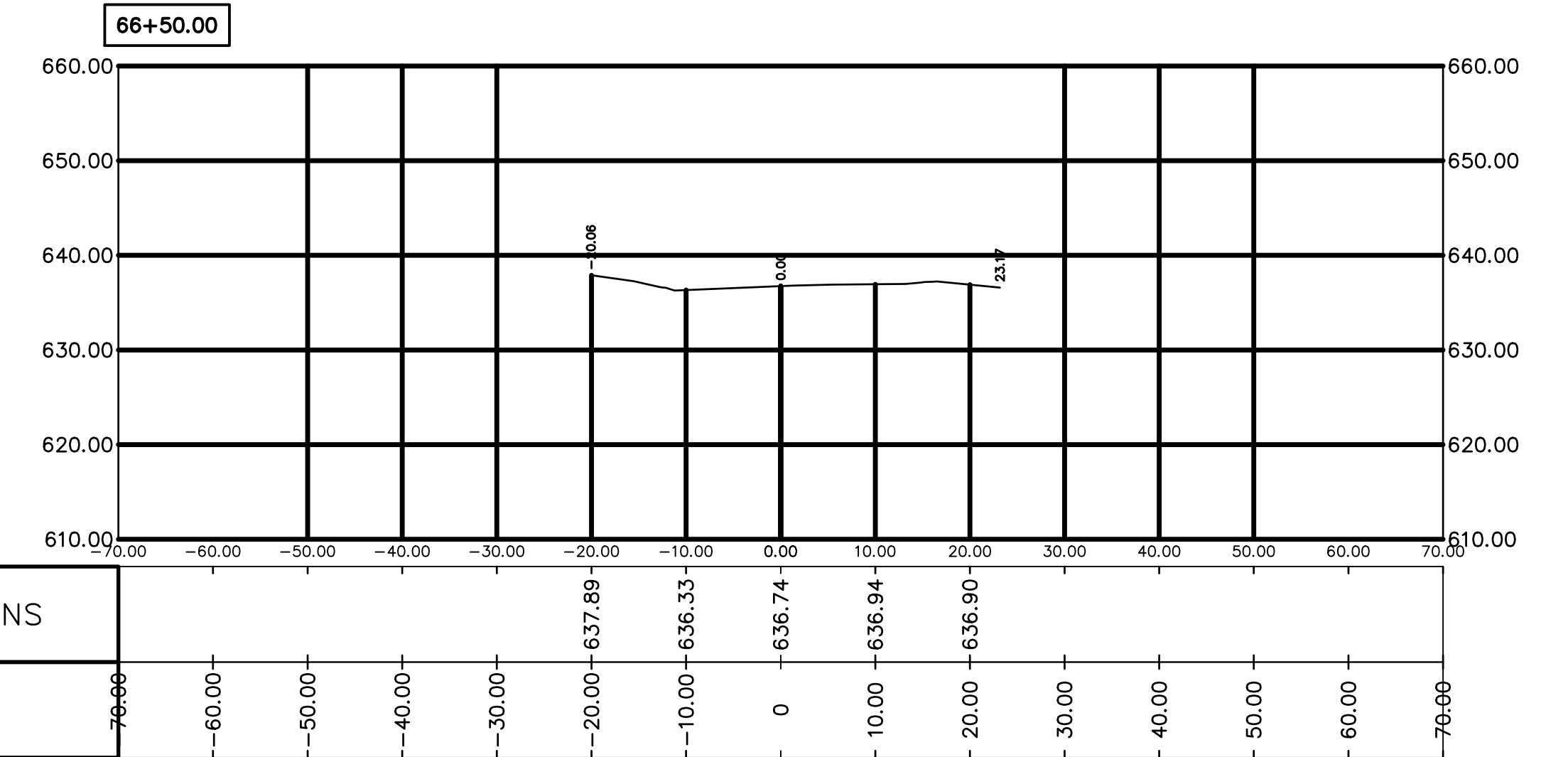
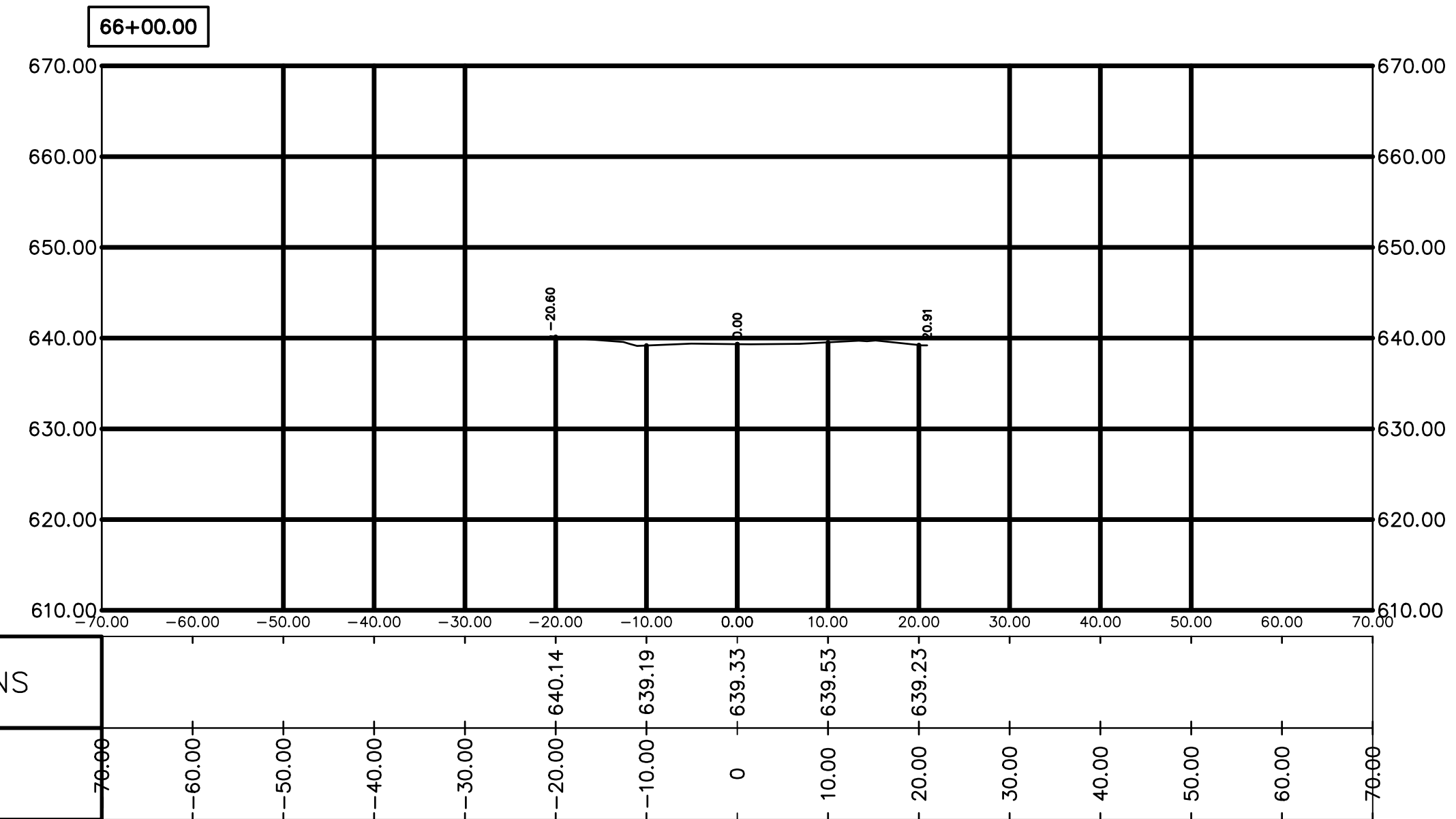
S:\CHARLEY\2022 Projects\118 Rd. PM Highway to Lakeshore\CAD\118 - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (27) - 2/27/2024 11:28:02 AM Eric



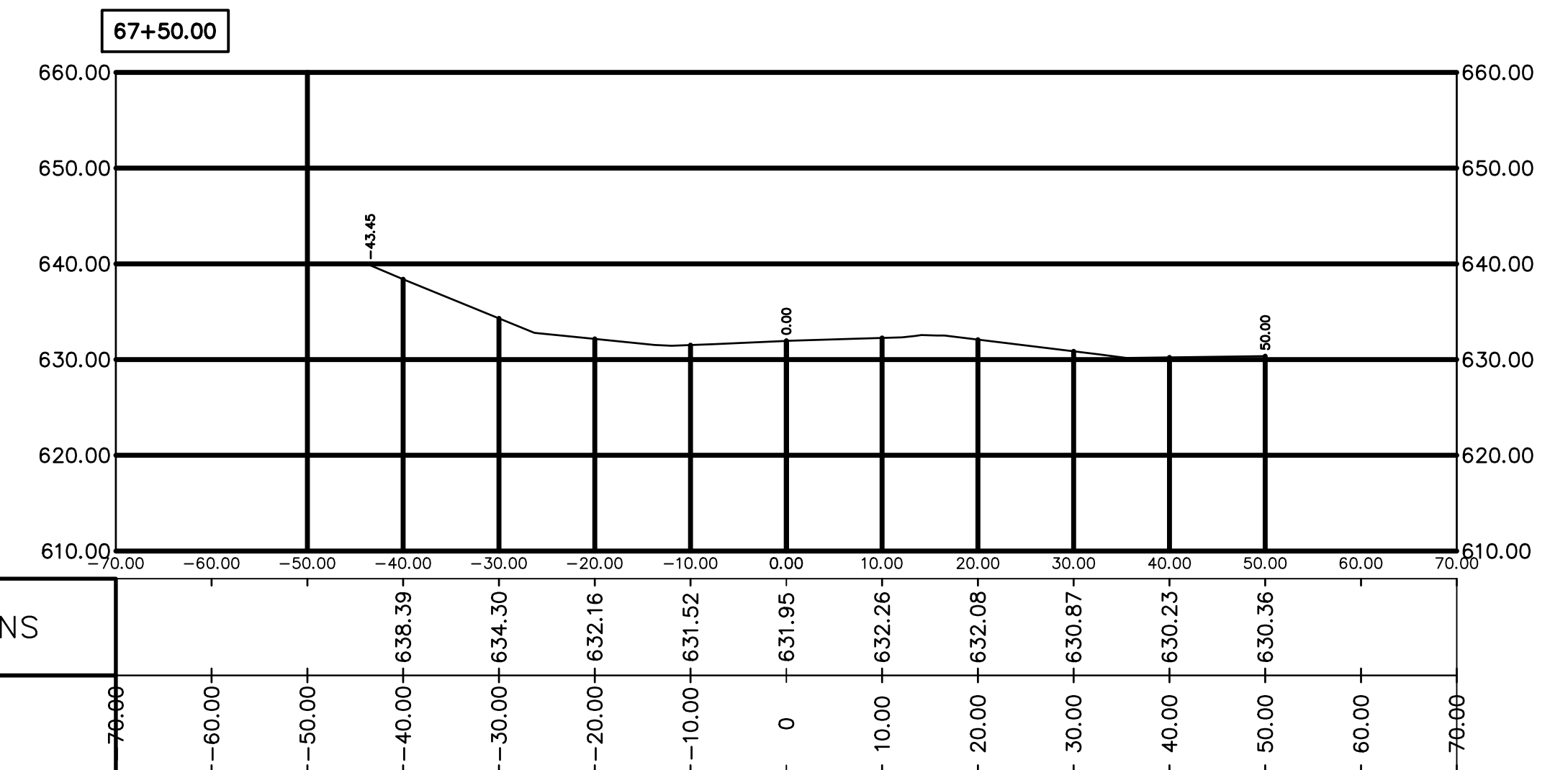
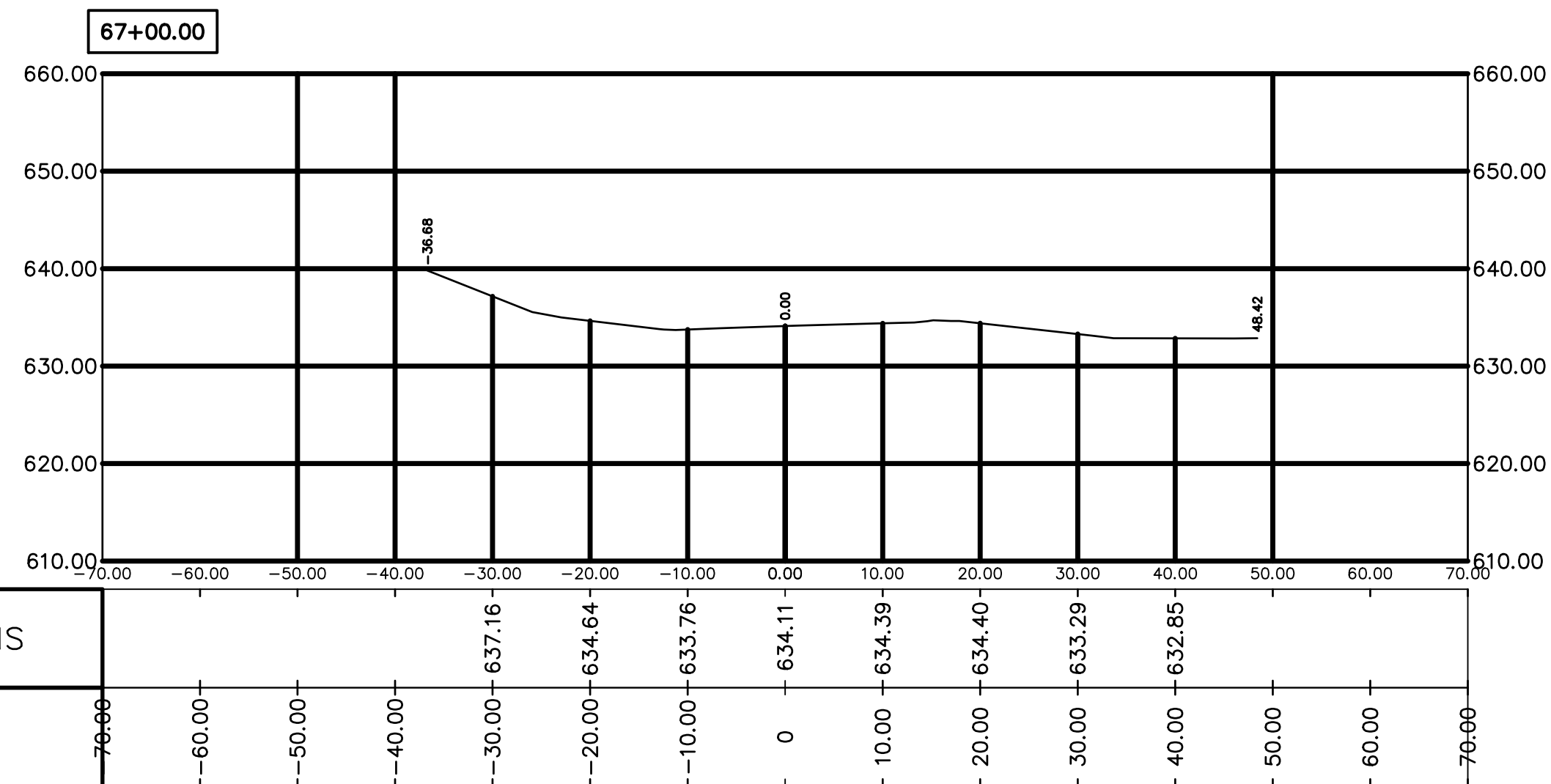
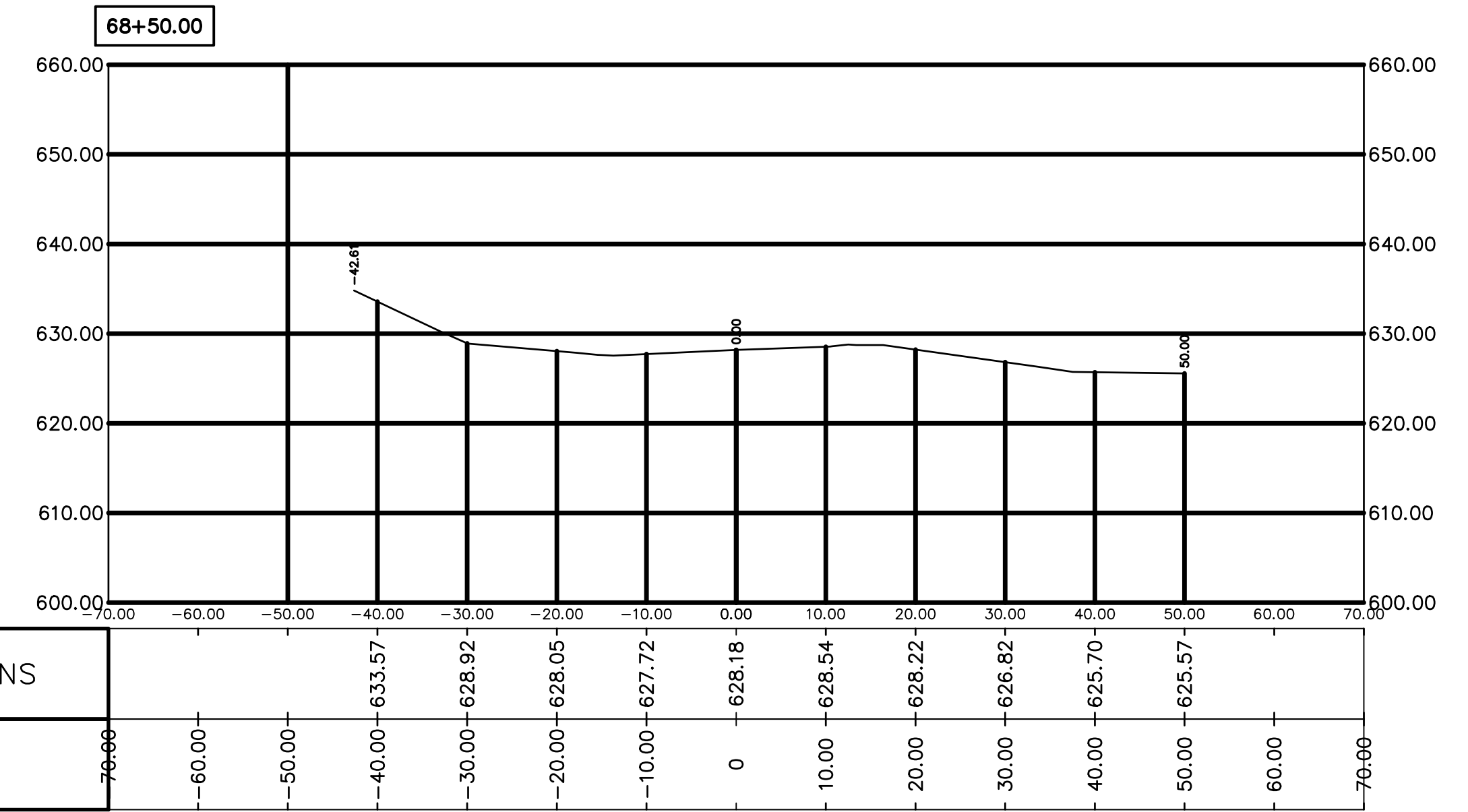
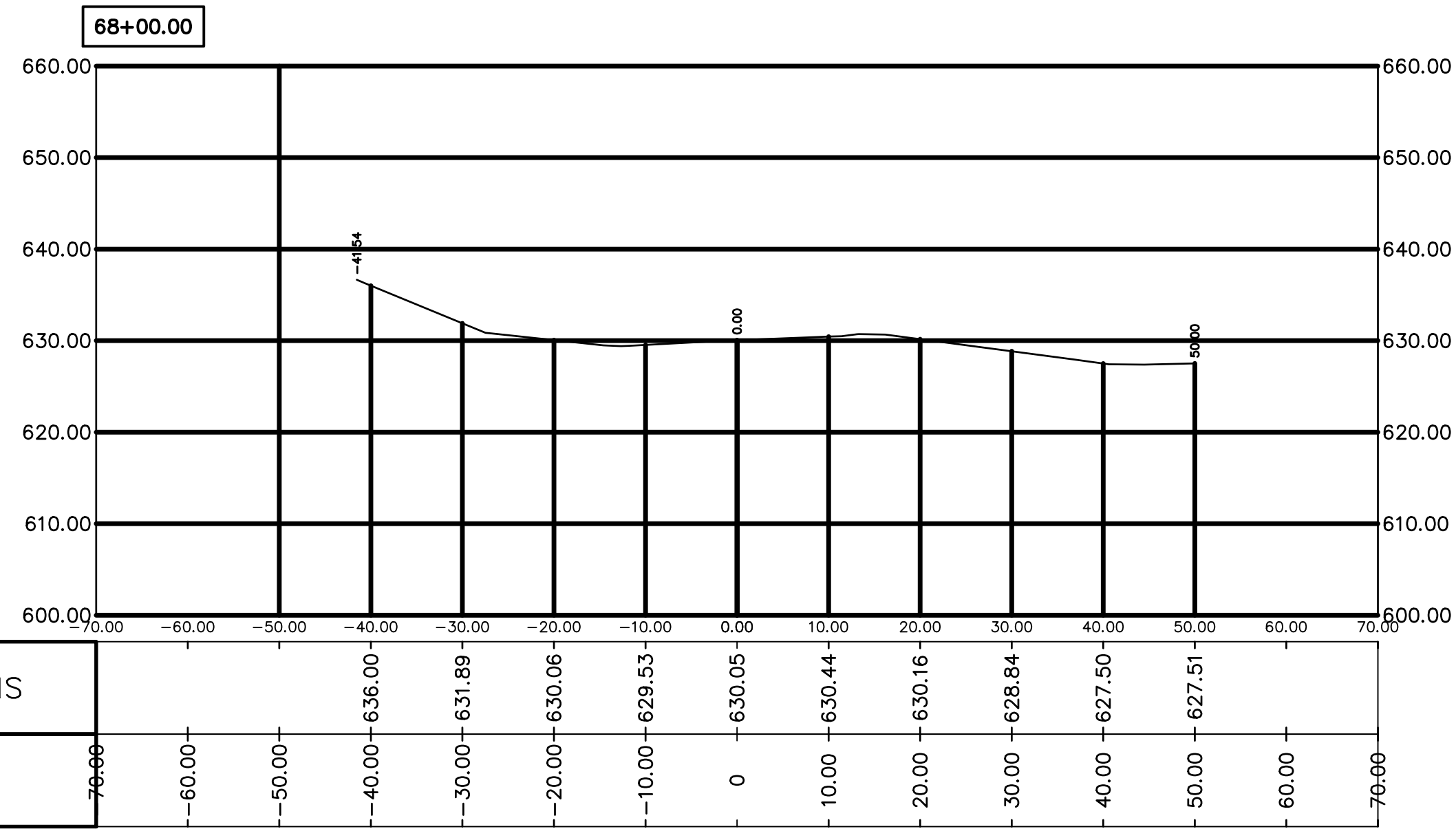
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (28) - 2/27/2024 11:28:23 AM Eric

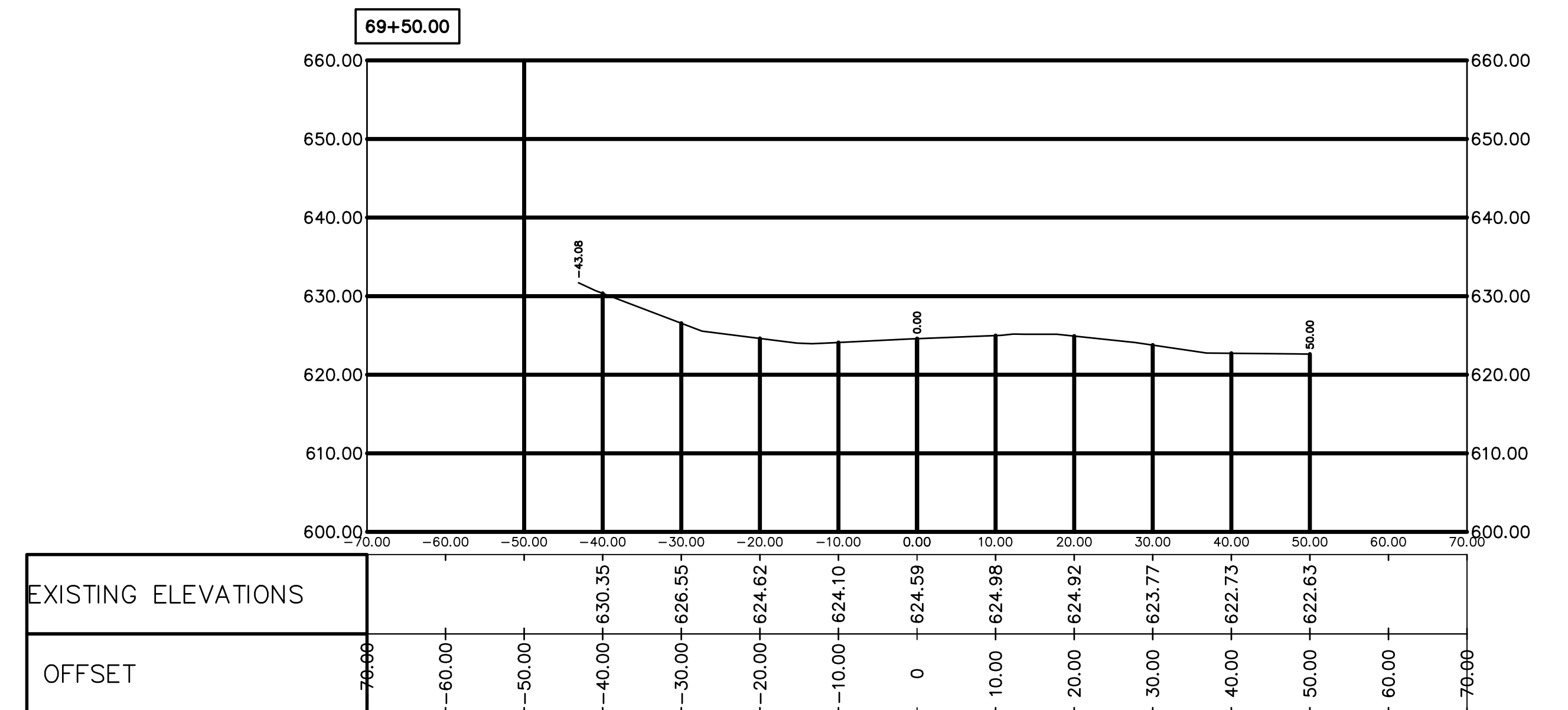
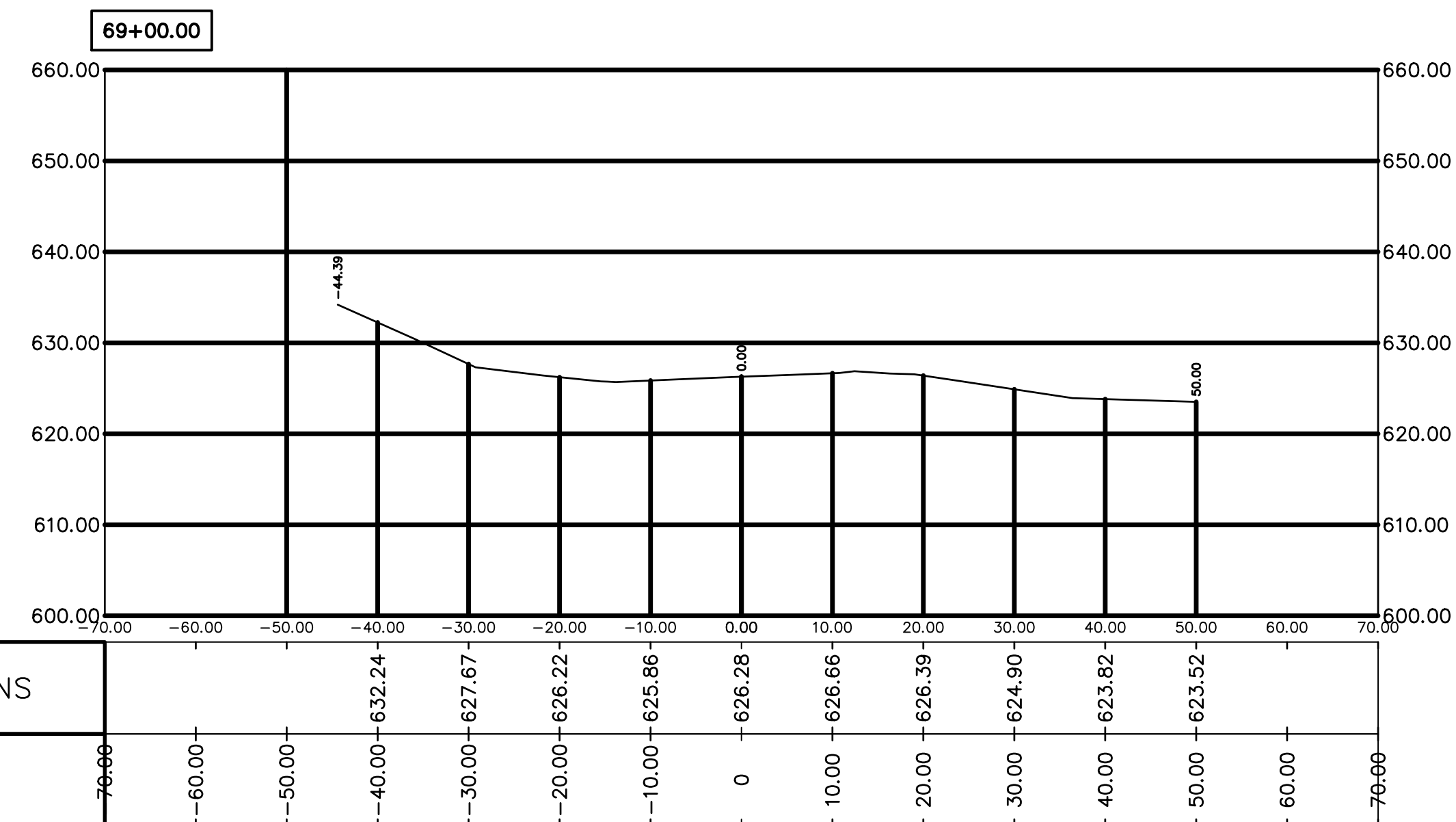
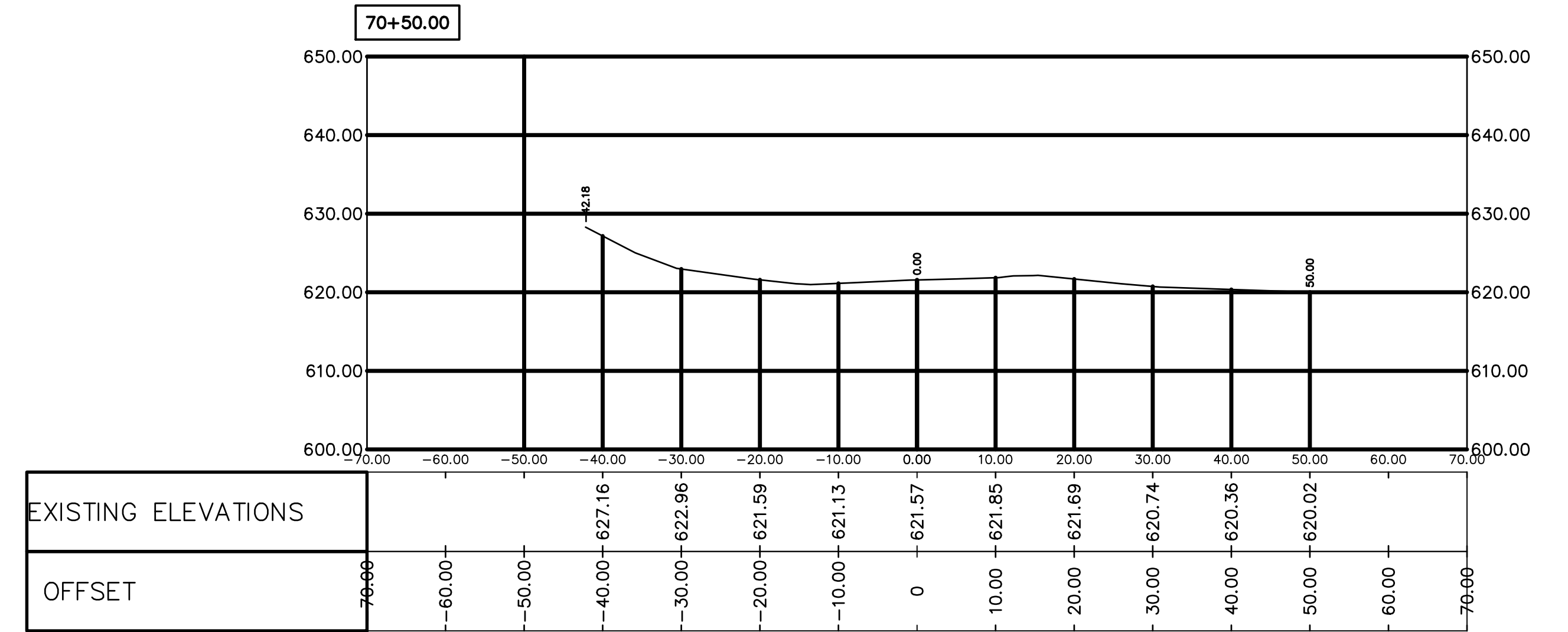
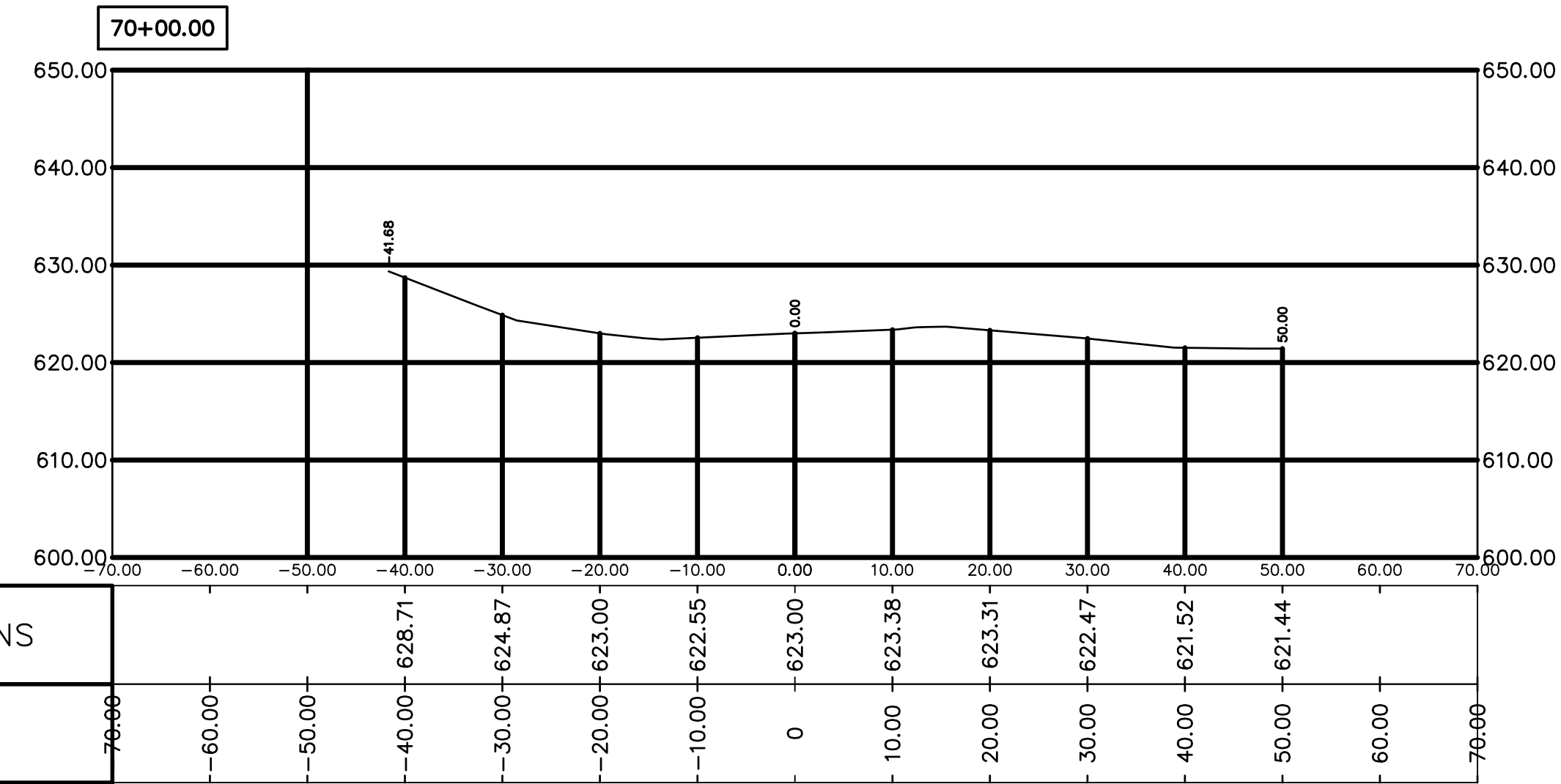


S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (29) - 2/27/2024 11:28:43 AM Eric

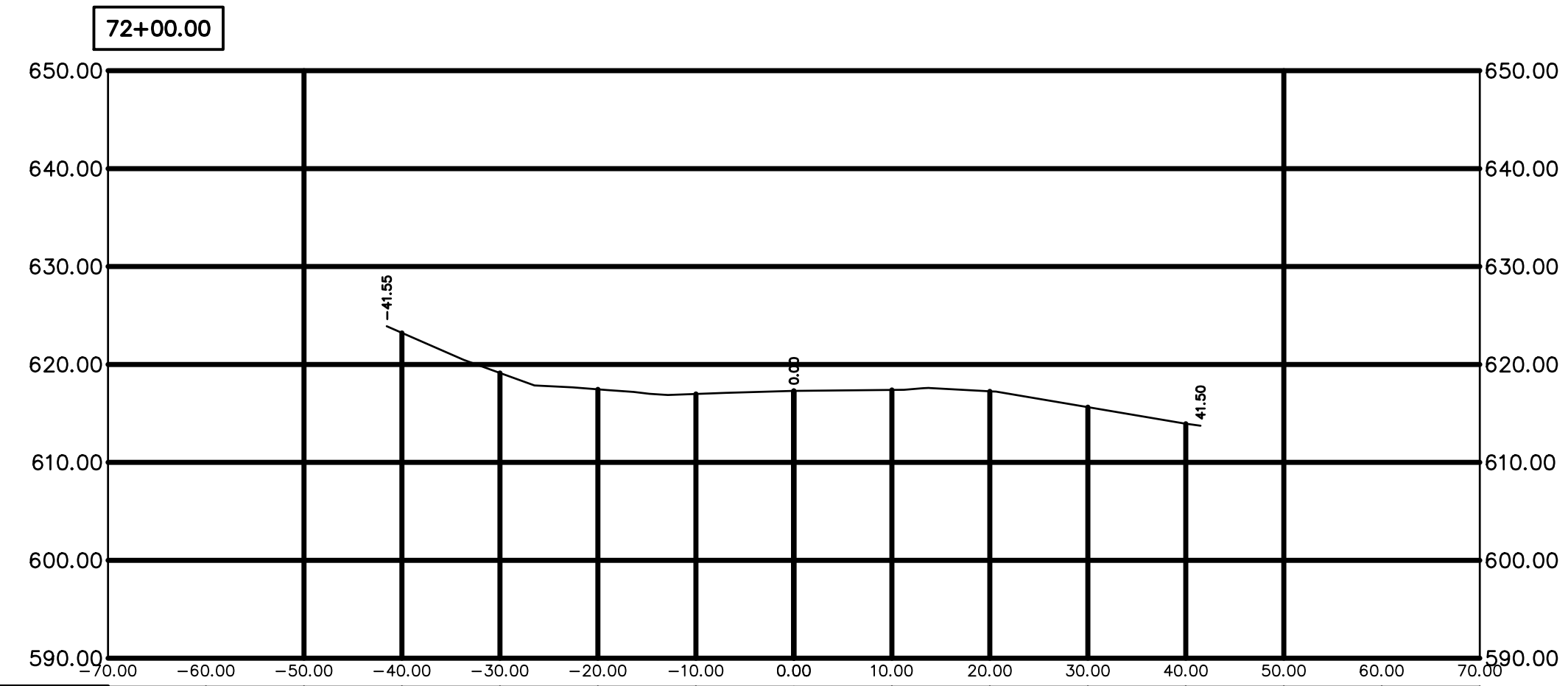


S:\CHARLEY\2022 Projects\118 Rd. PM Highway to Lakeshore\CAD\118 - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (R0) - 2/27/2024 11:29:04 AM Eric

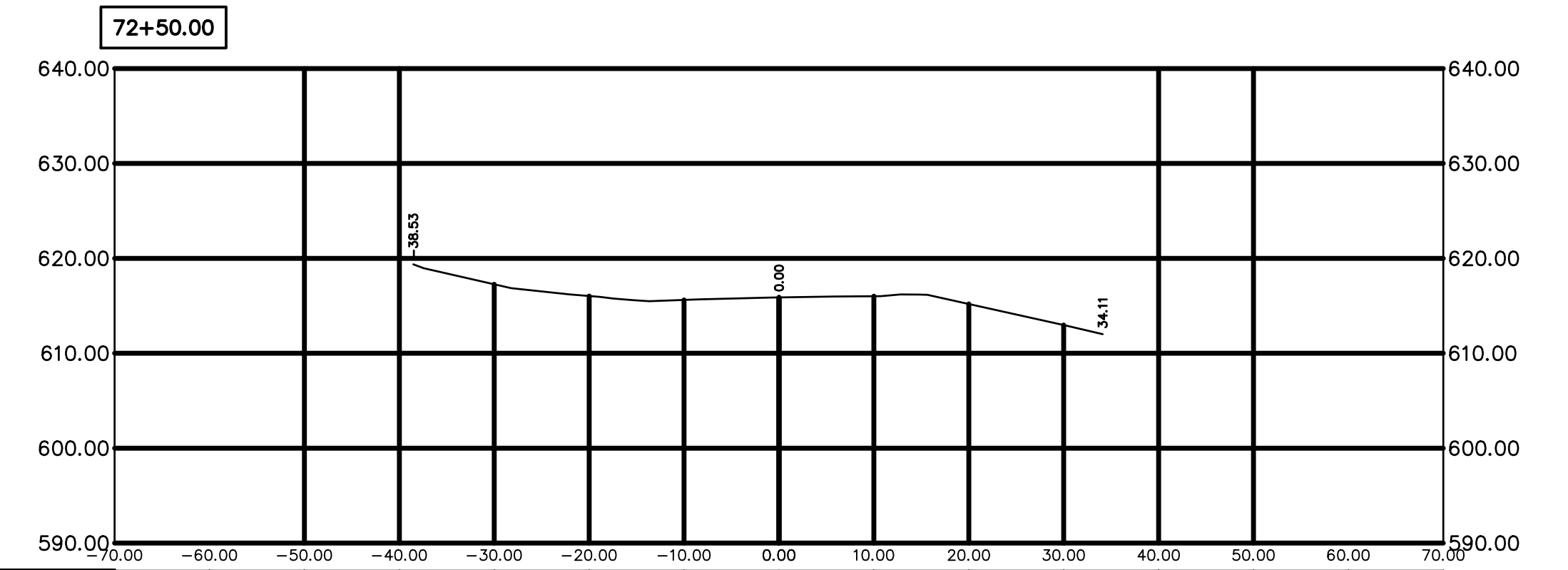




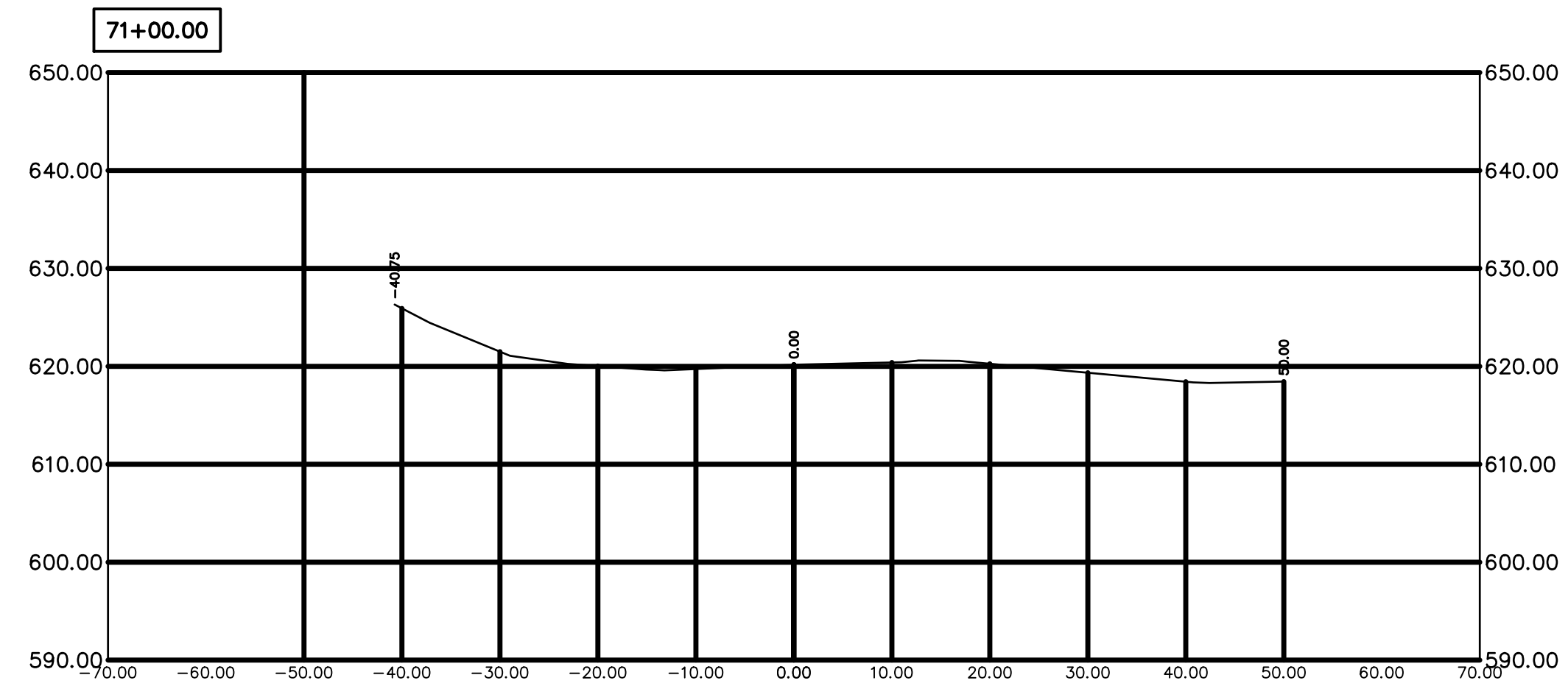
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (3) - 2/27/2024 11:29:44 AM Eric



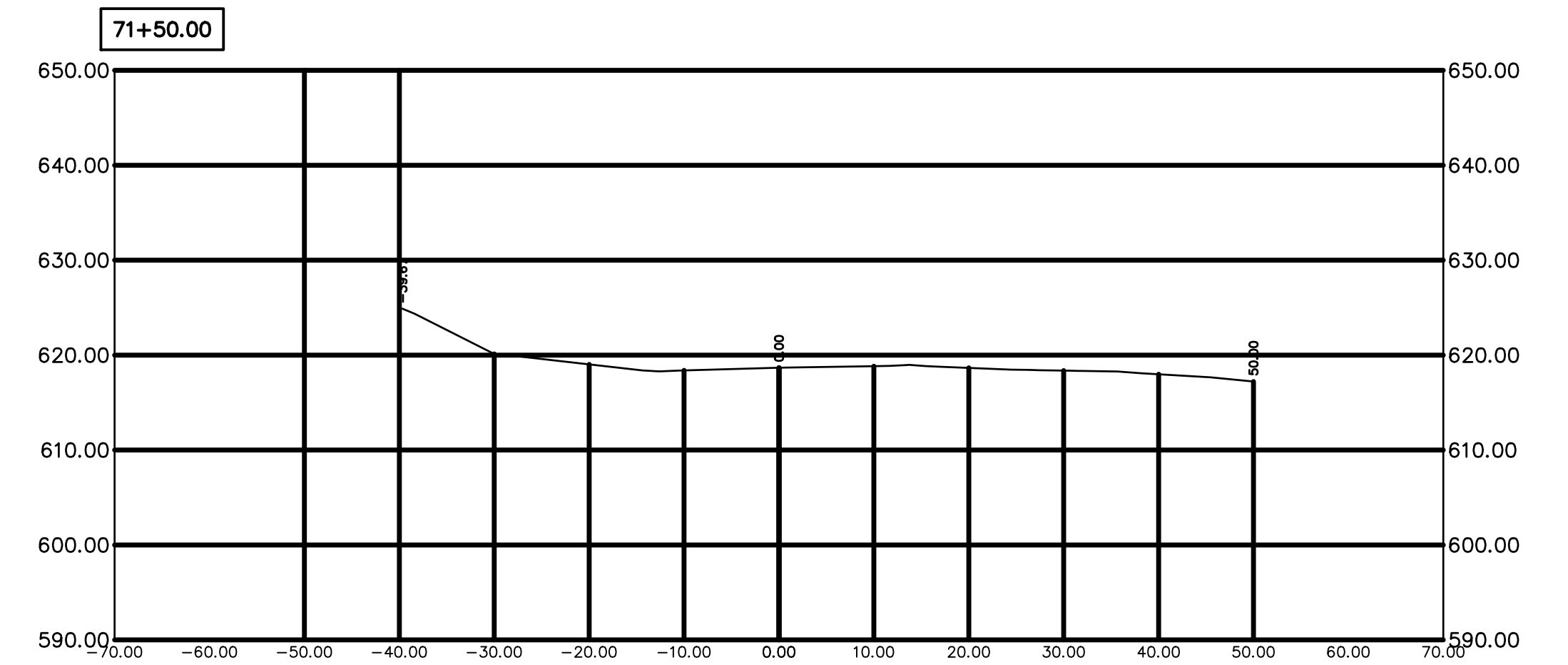
EXISTING ELEVATIONS				623.23	619.14	617.46	616.99	617.30	617.40	617.26	615.64	613.95			
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



EXISTING ELEVATIONS				617.27	616.03	615.63	615.89	616.02	615.20	612.97					
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00

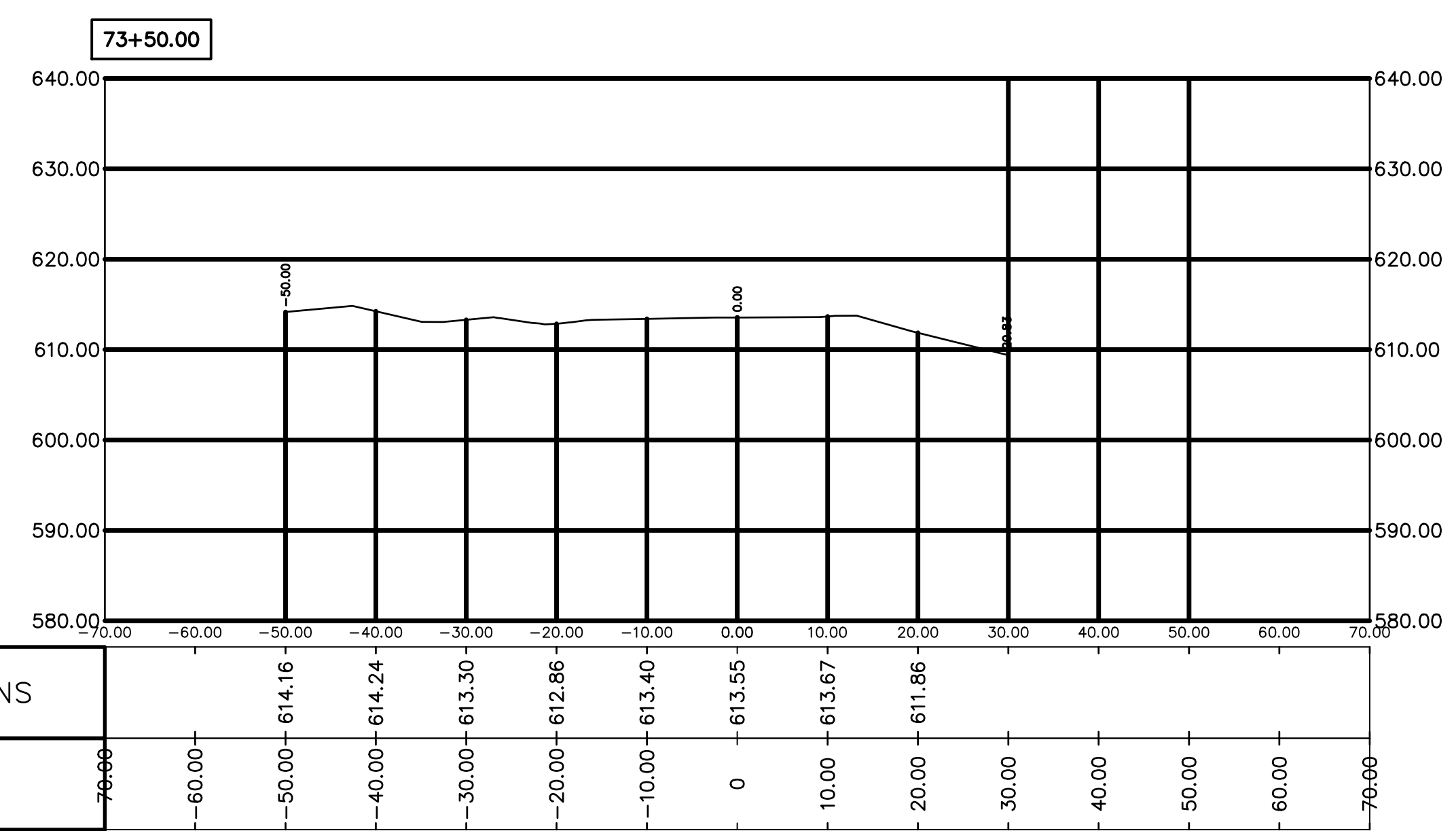
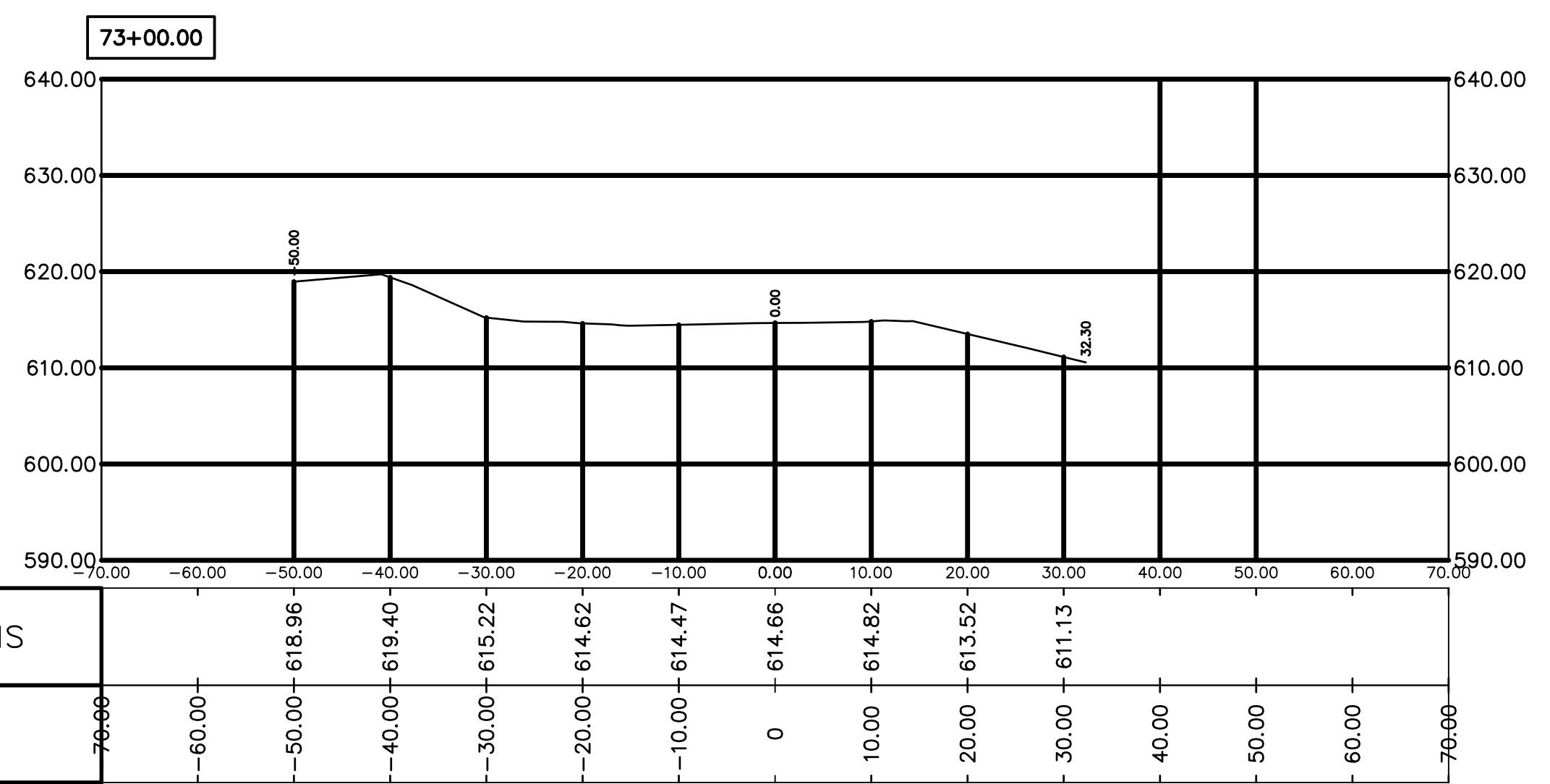
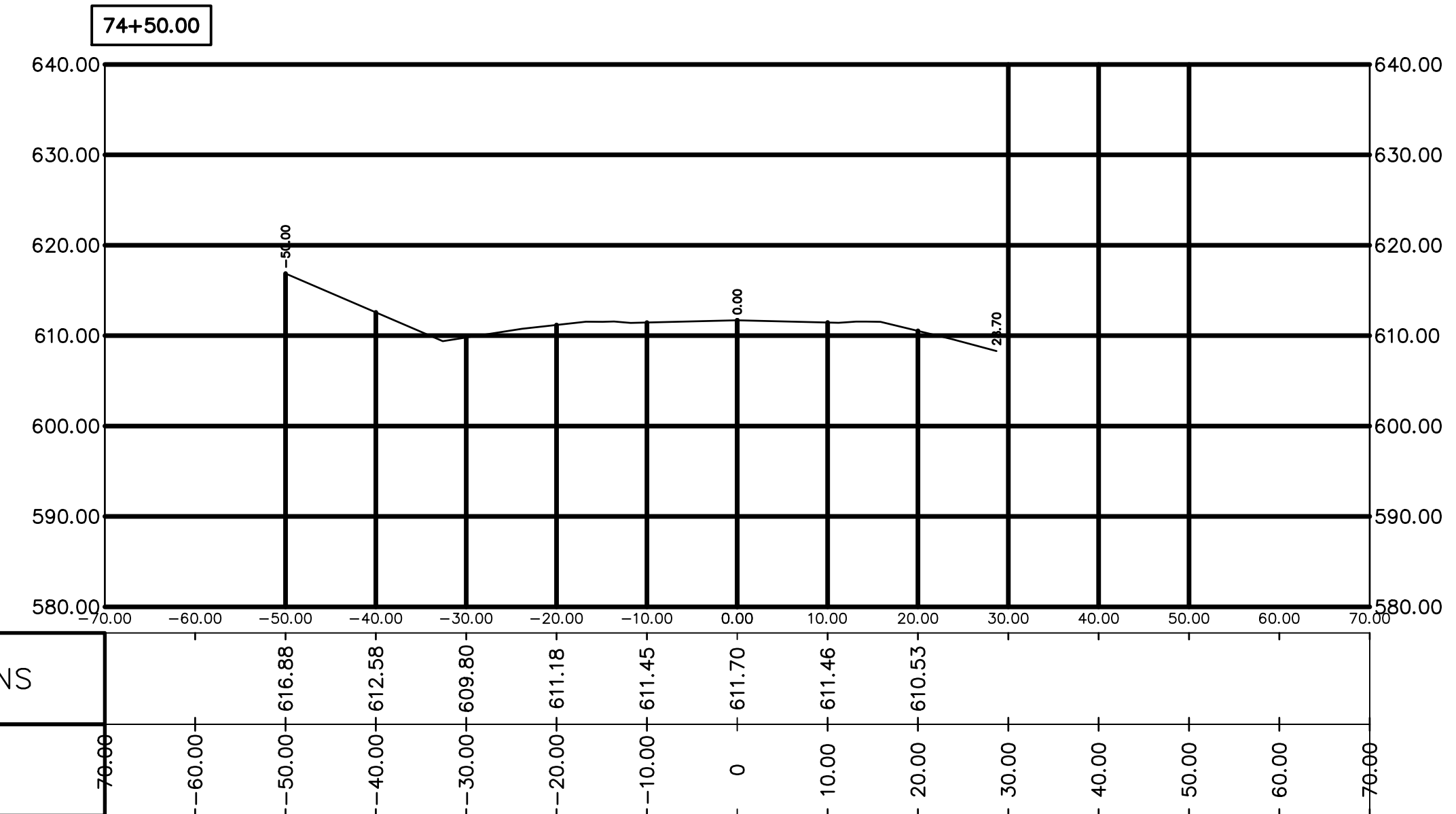
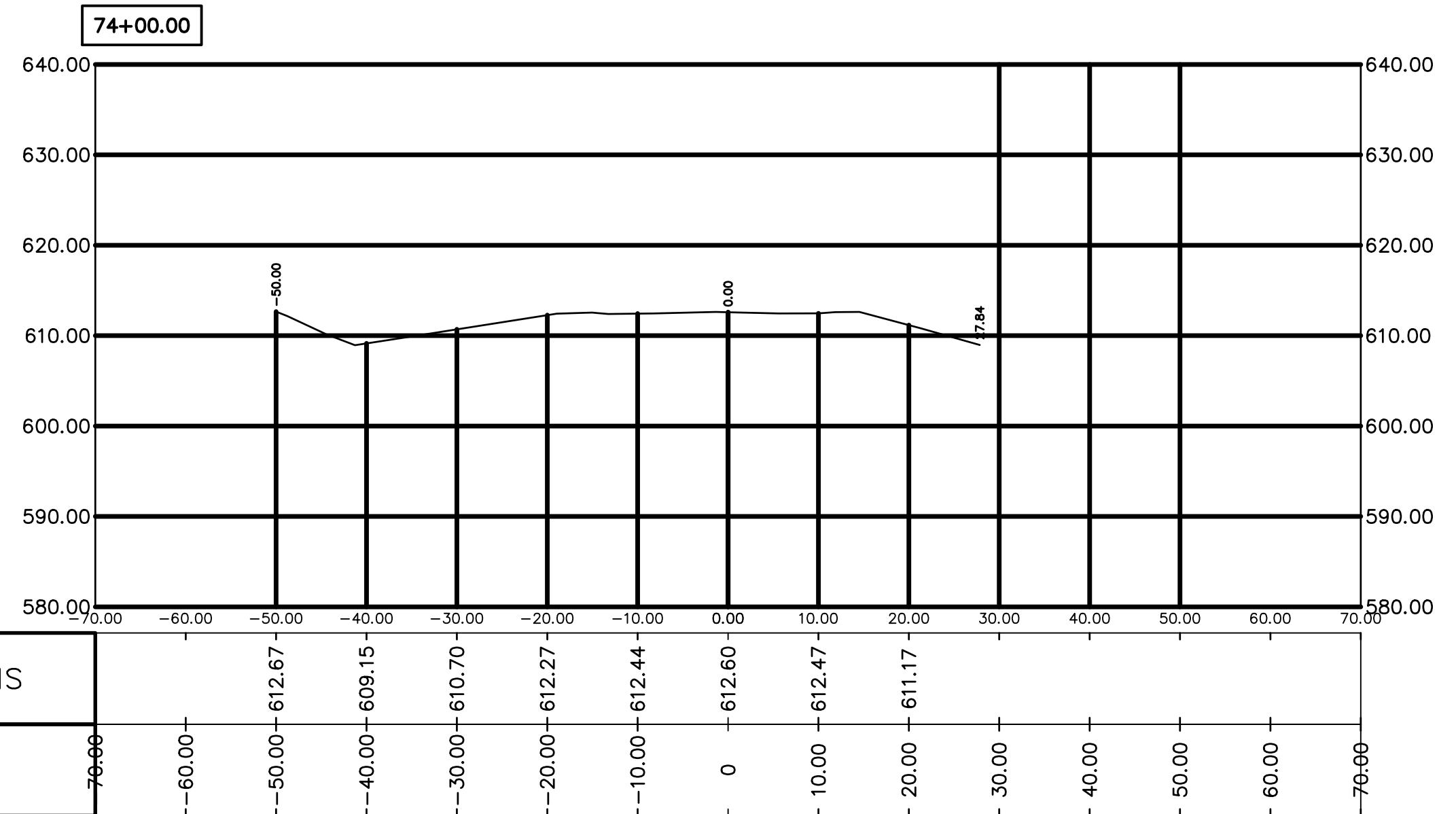


EXISTING ELEVATIONS				625.92	621.51	620.03	619.73	620.16	620.40	620.27	619.35	618.43	618.45		
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00



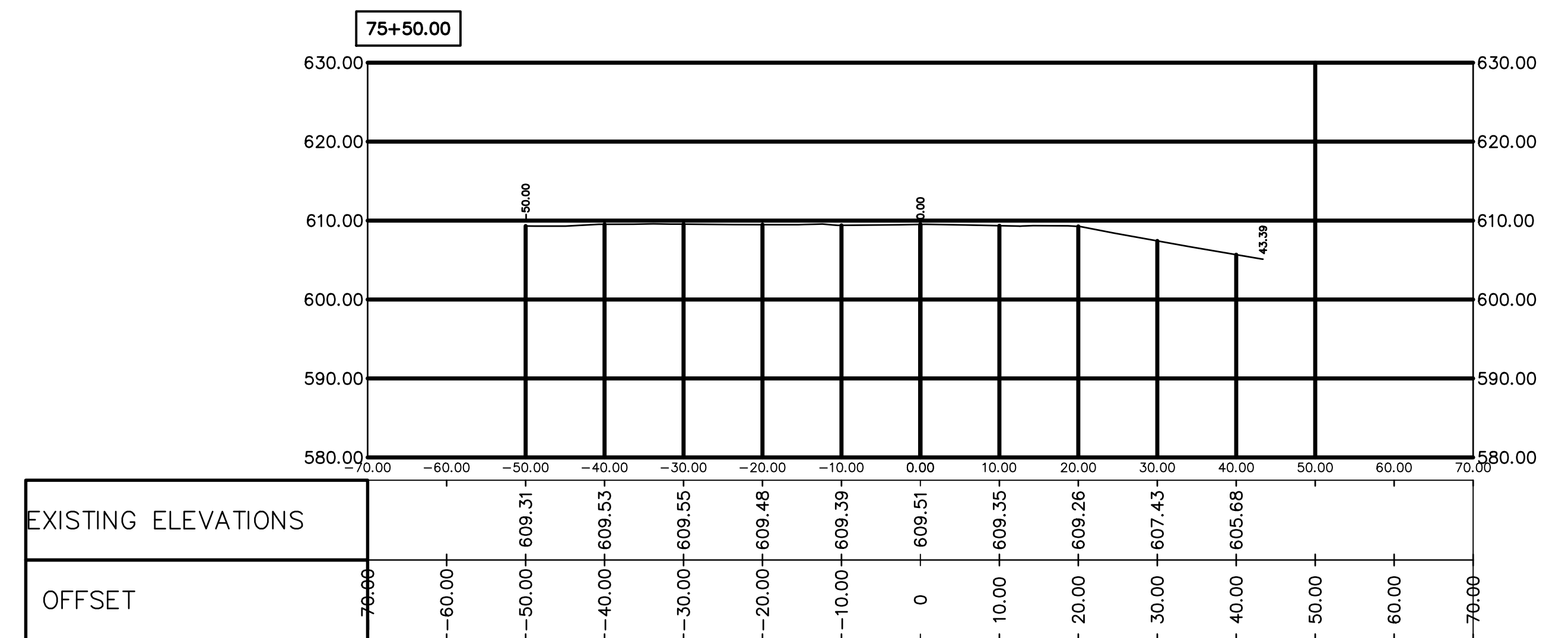
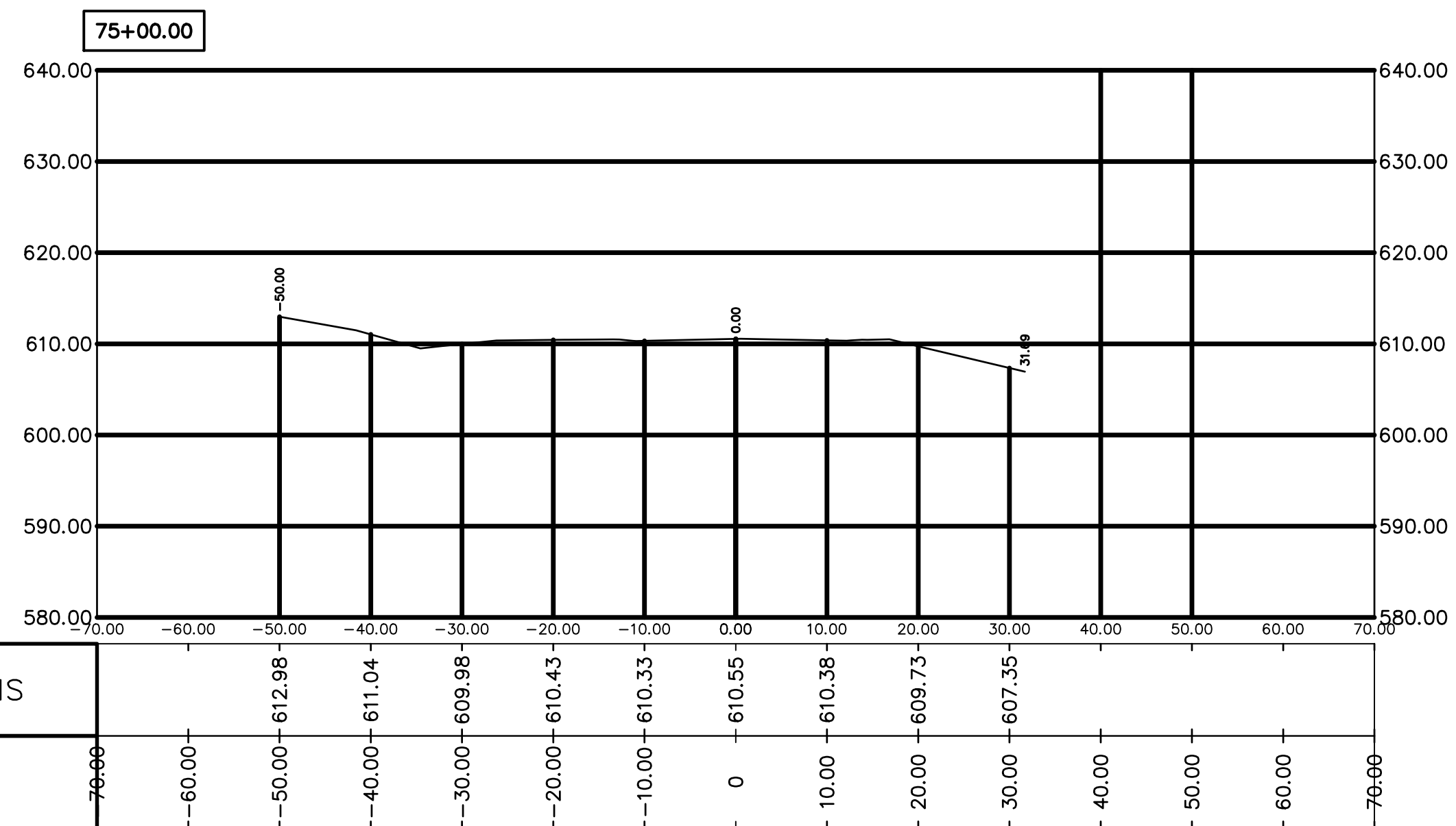
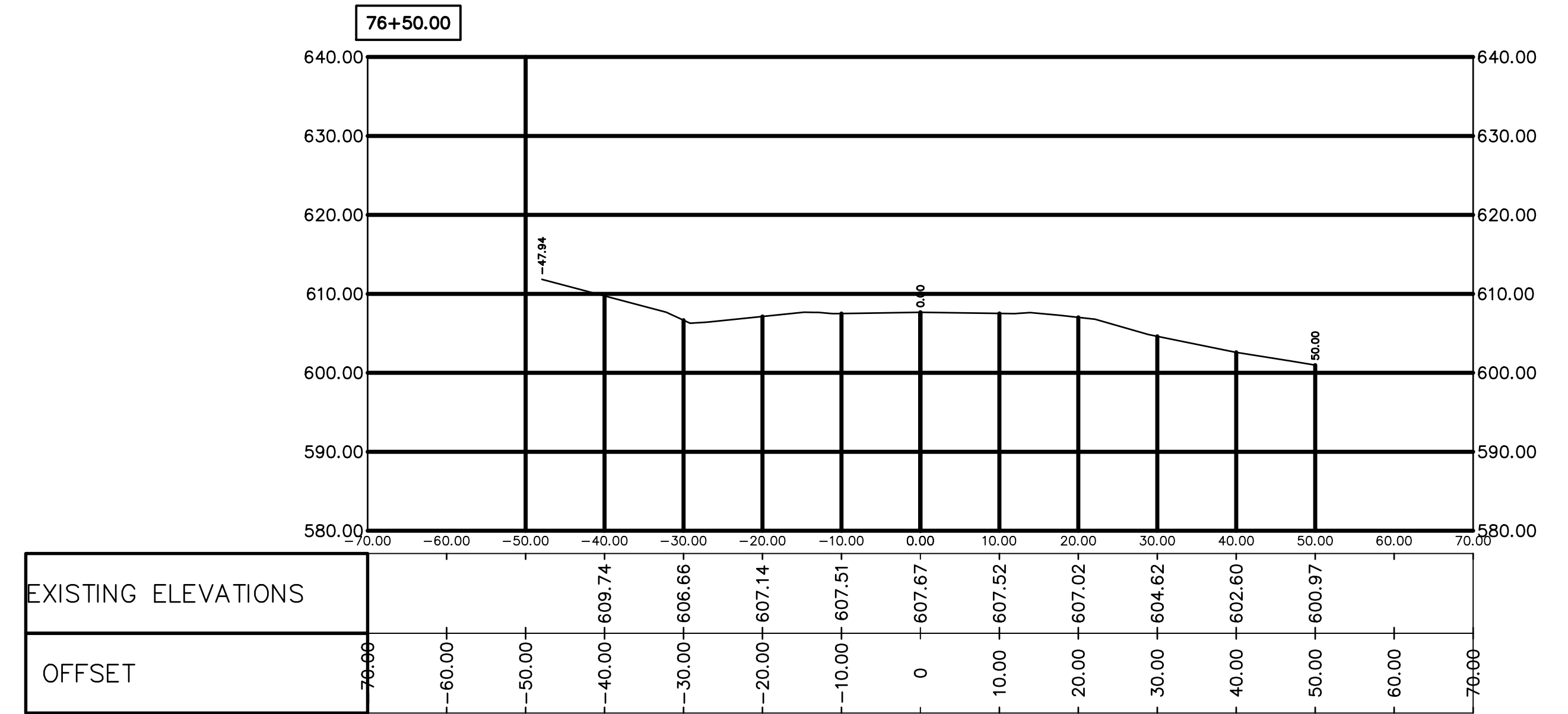
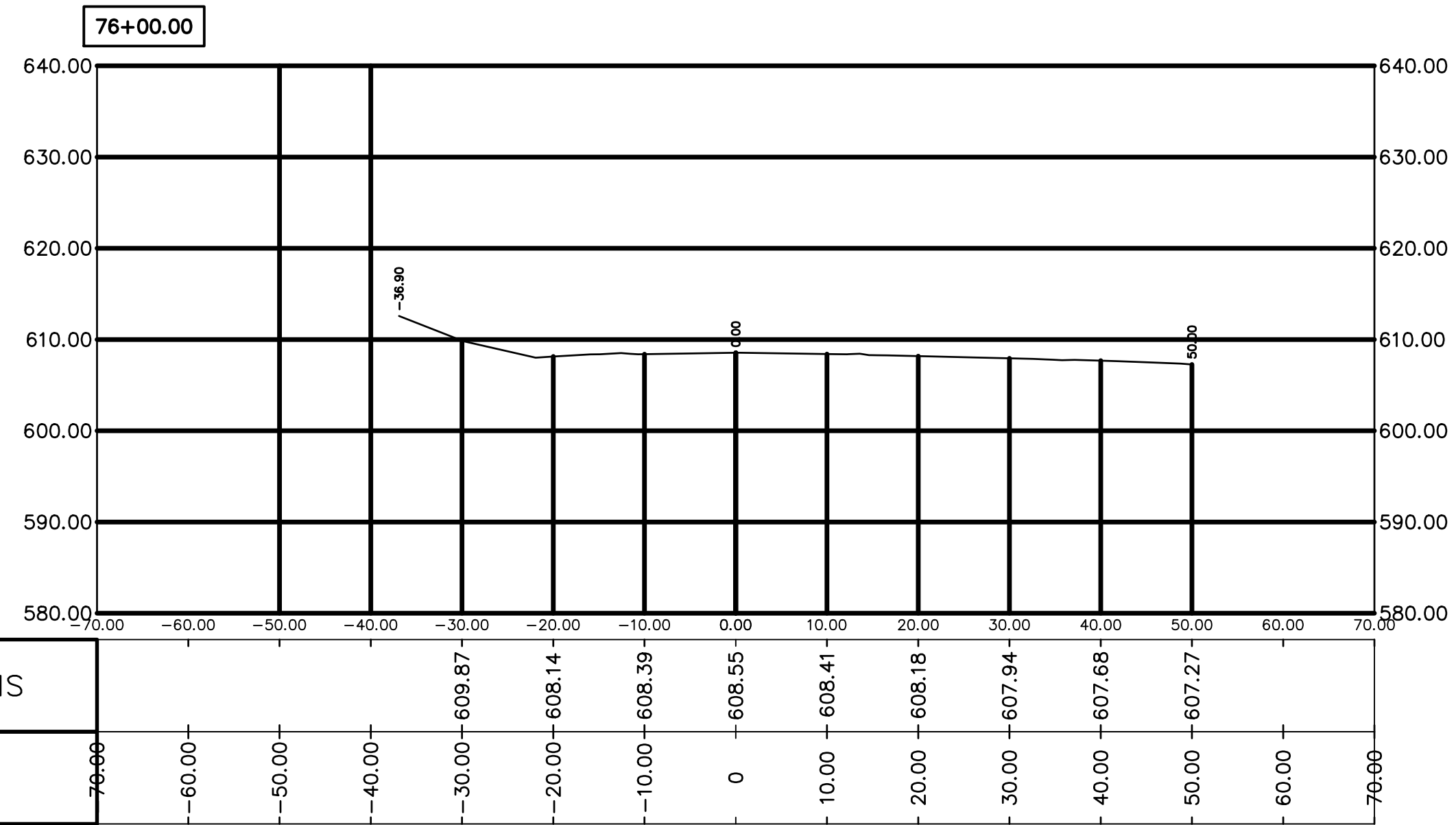
EXISTING ELEVATIONS				620.13	619.03	618.39	618.67	618.83	618.66	618.37	617.98	617.22			
OFFSET	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	70.00

S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (33) - 2/27/2024 11:30:02 AM Eric

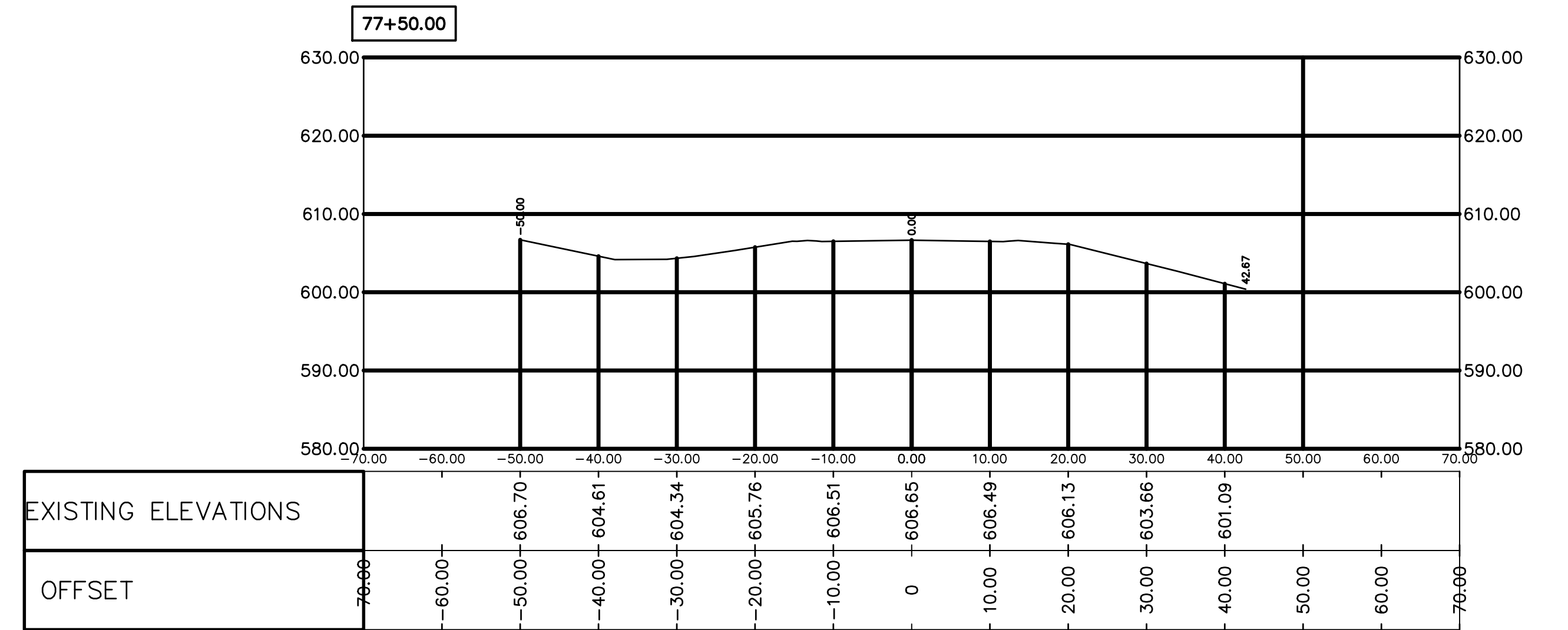
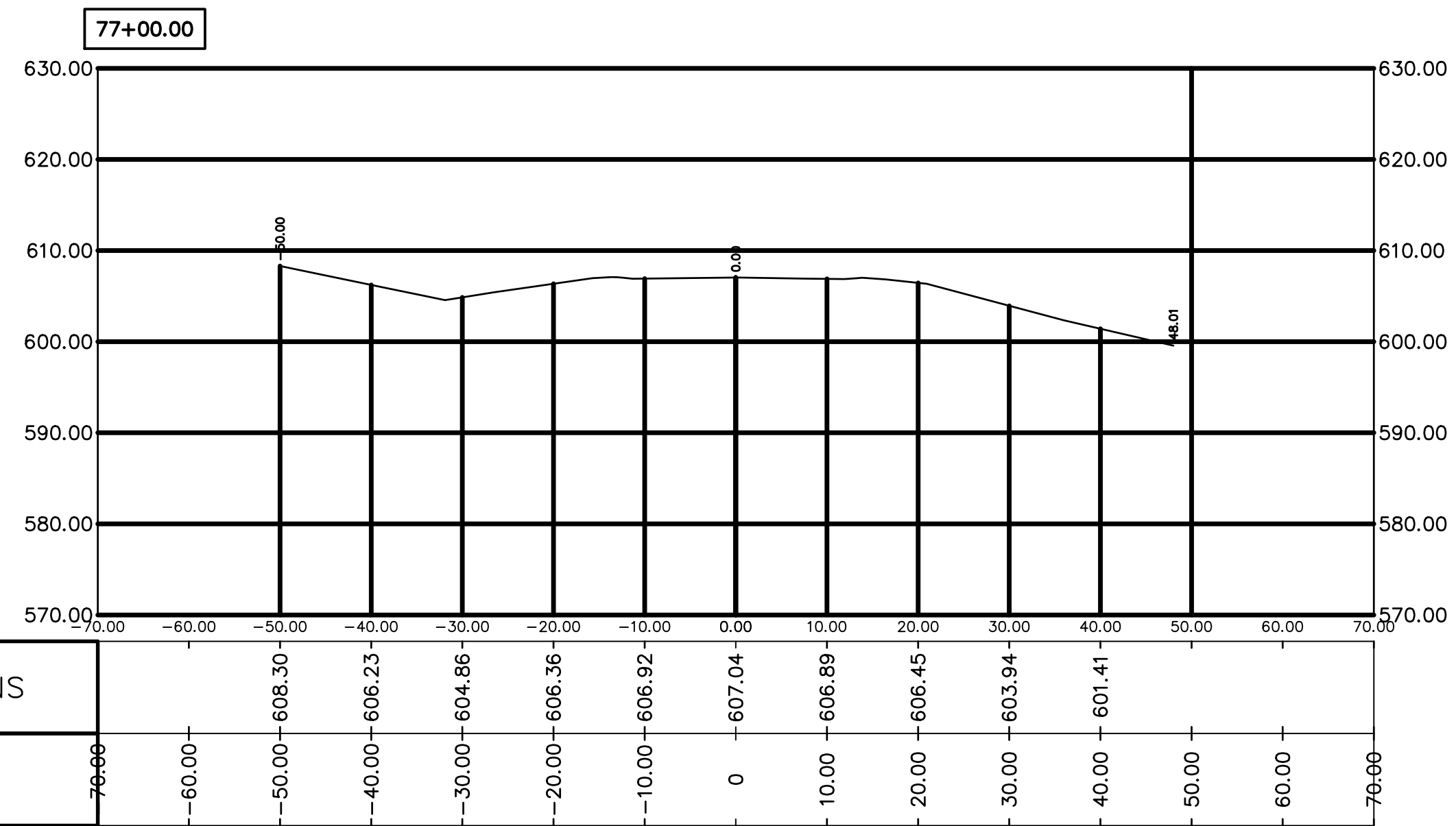
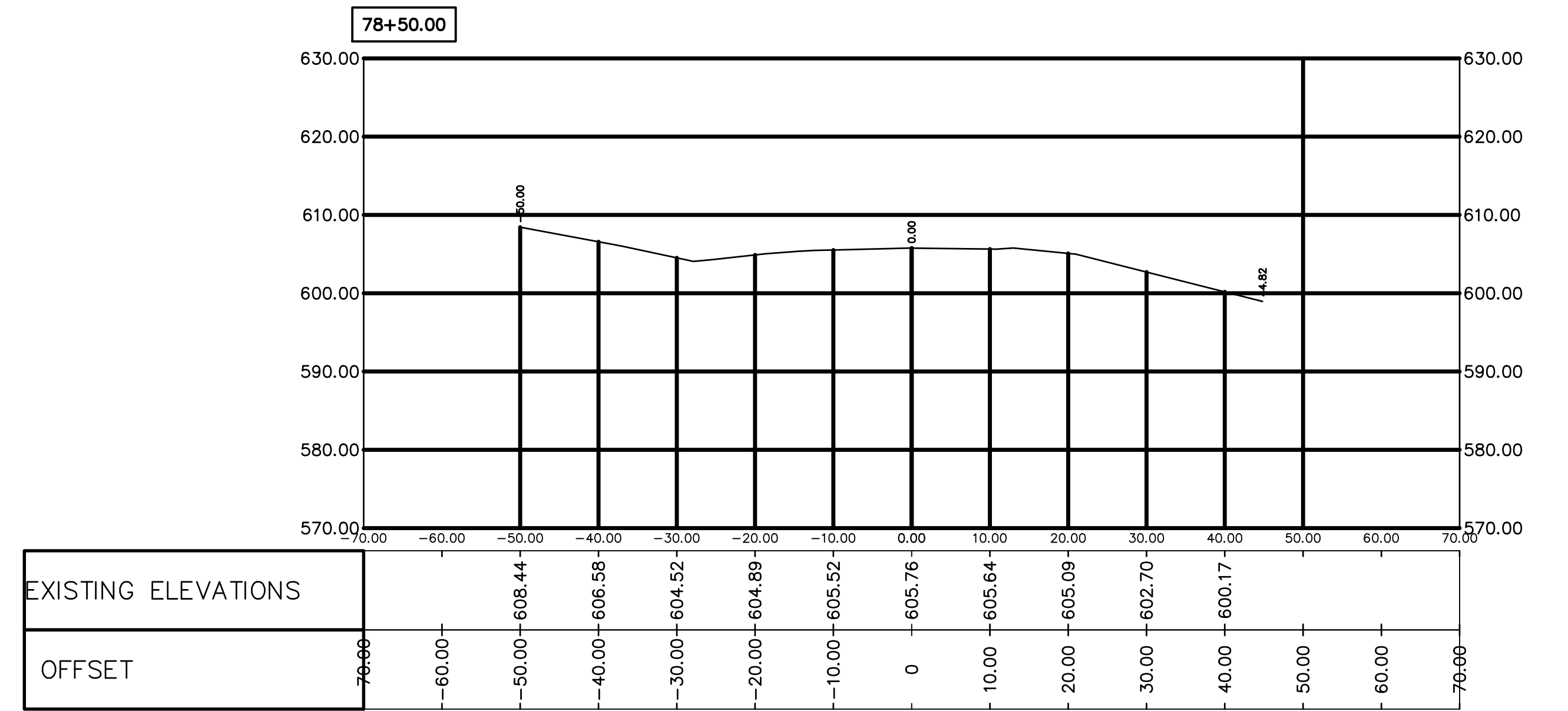
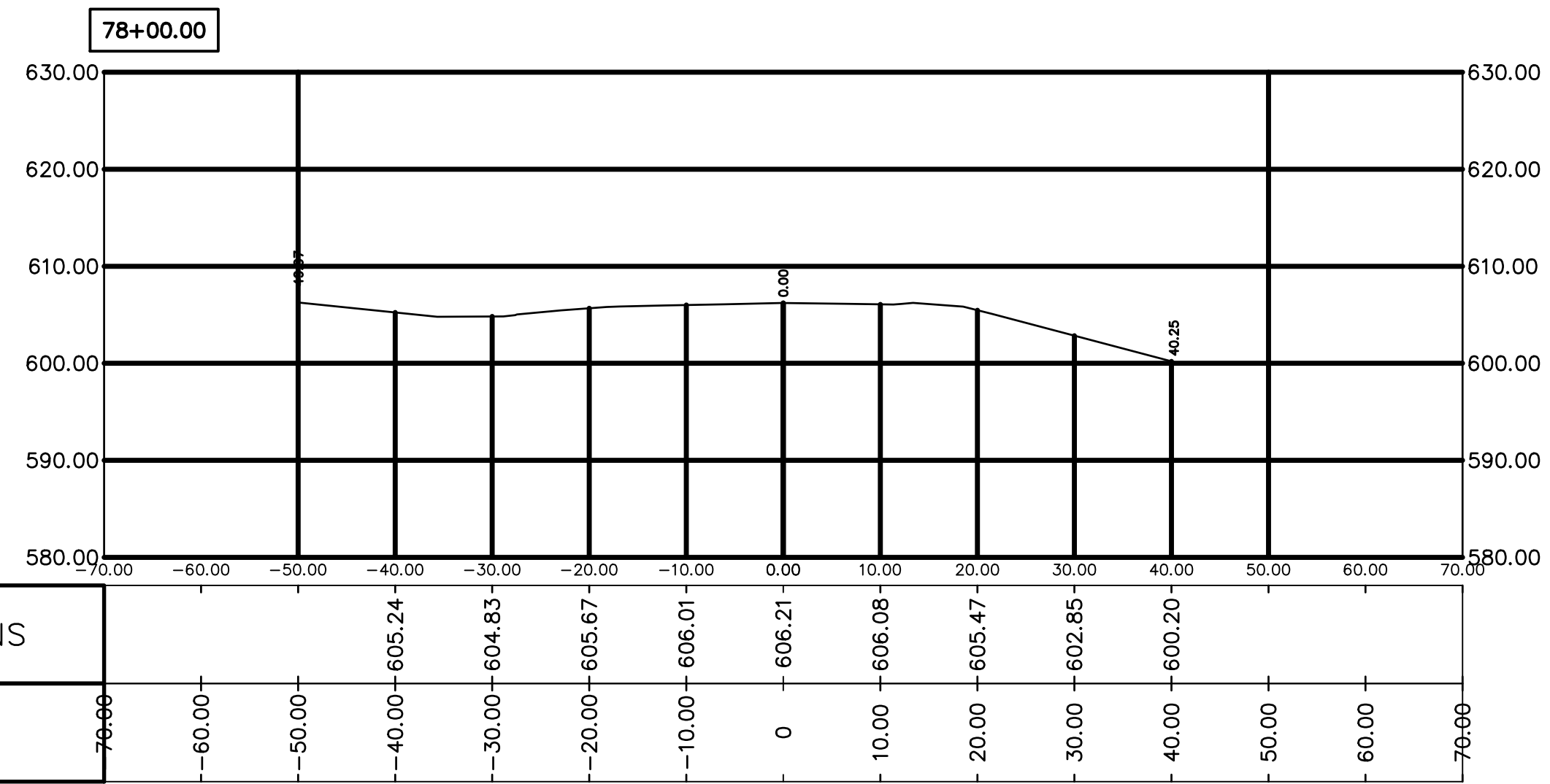




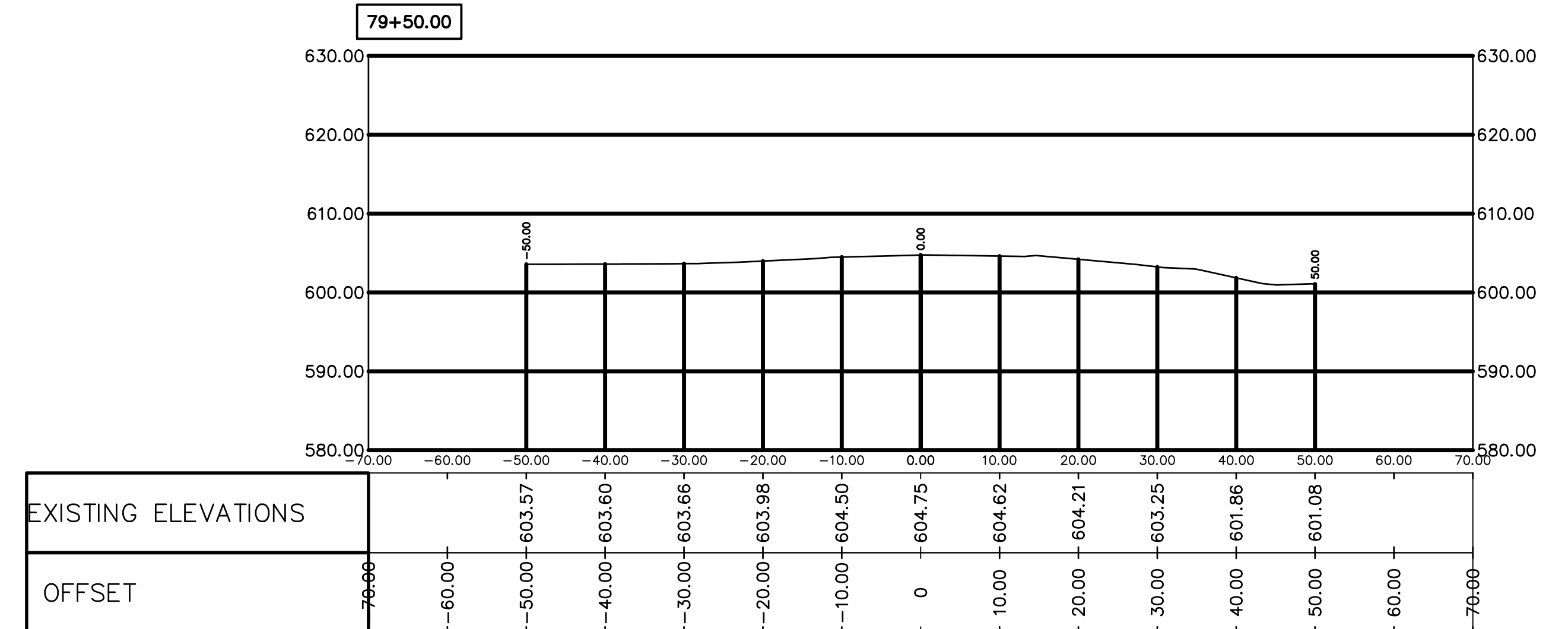
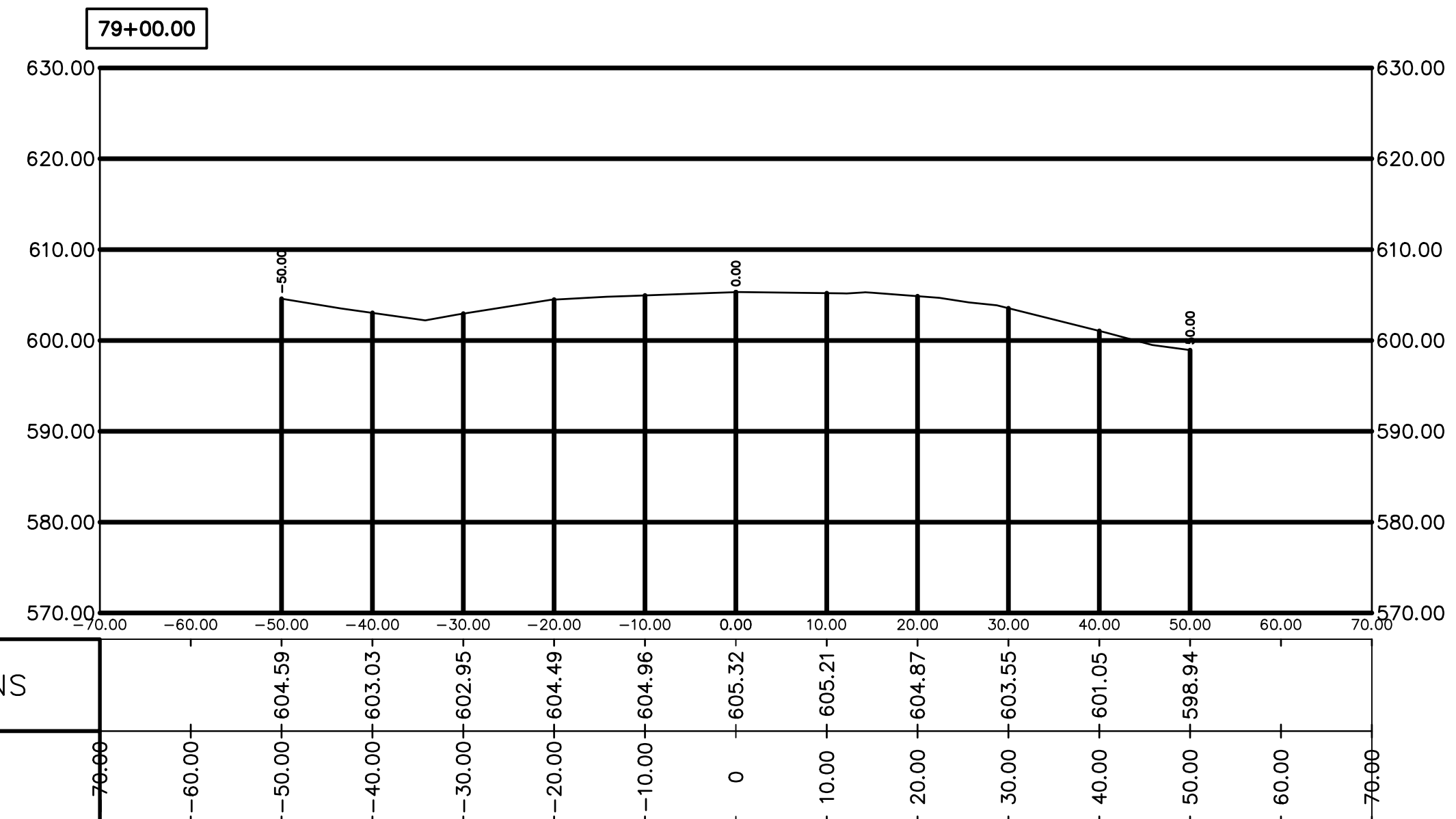
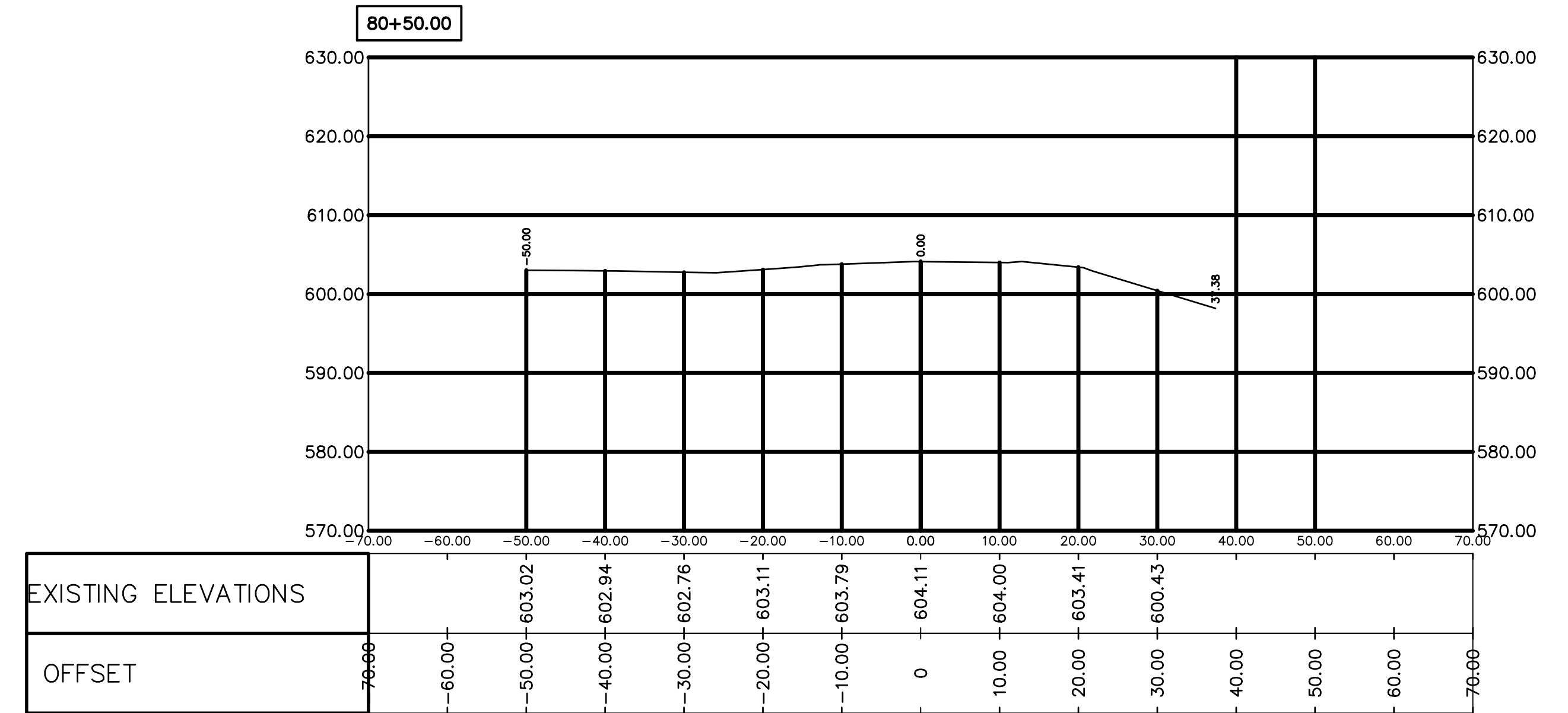
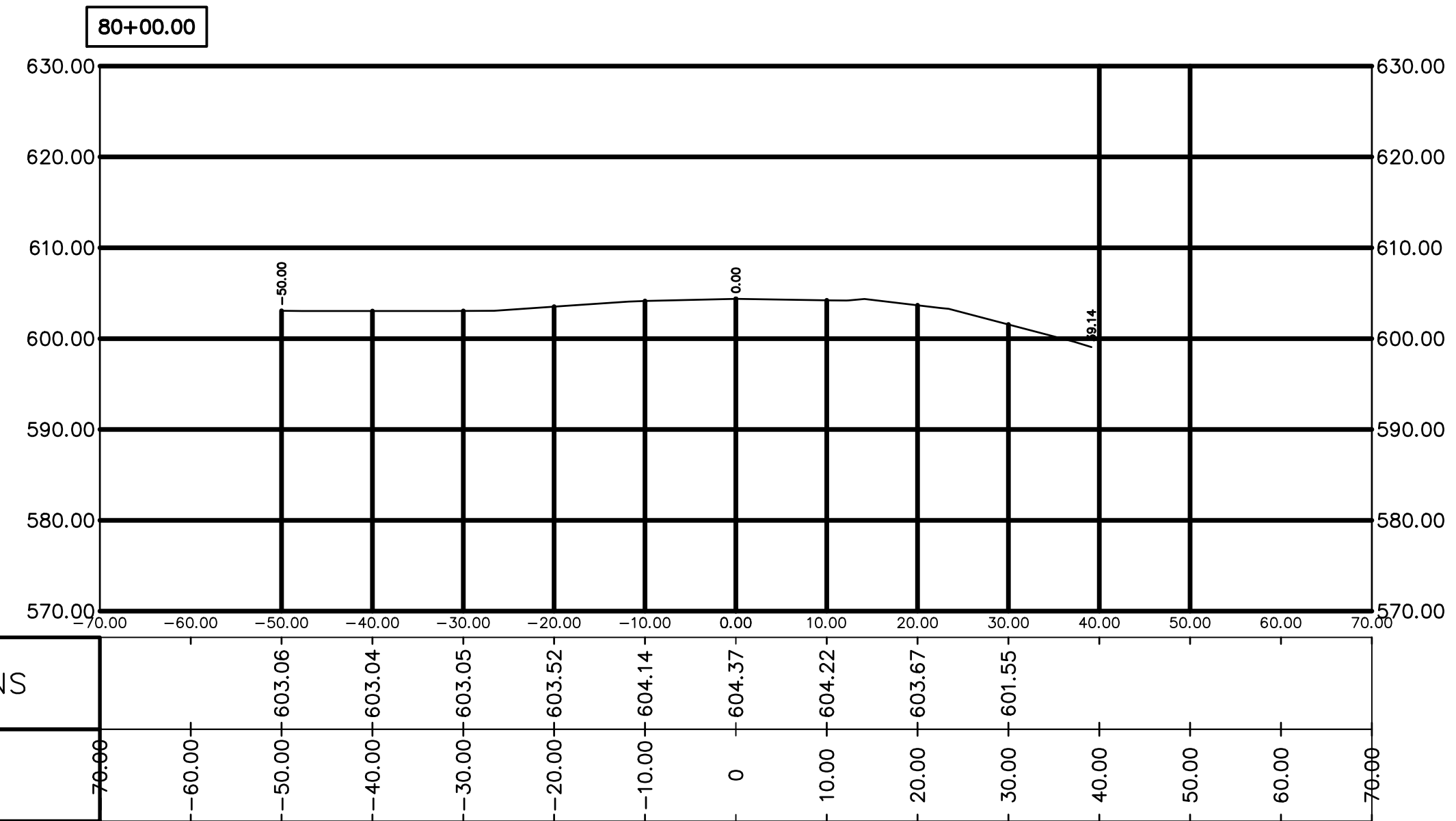
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM HWY to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (4) - 2/27/2024 11:30:24 AM Eric



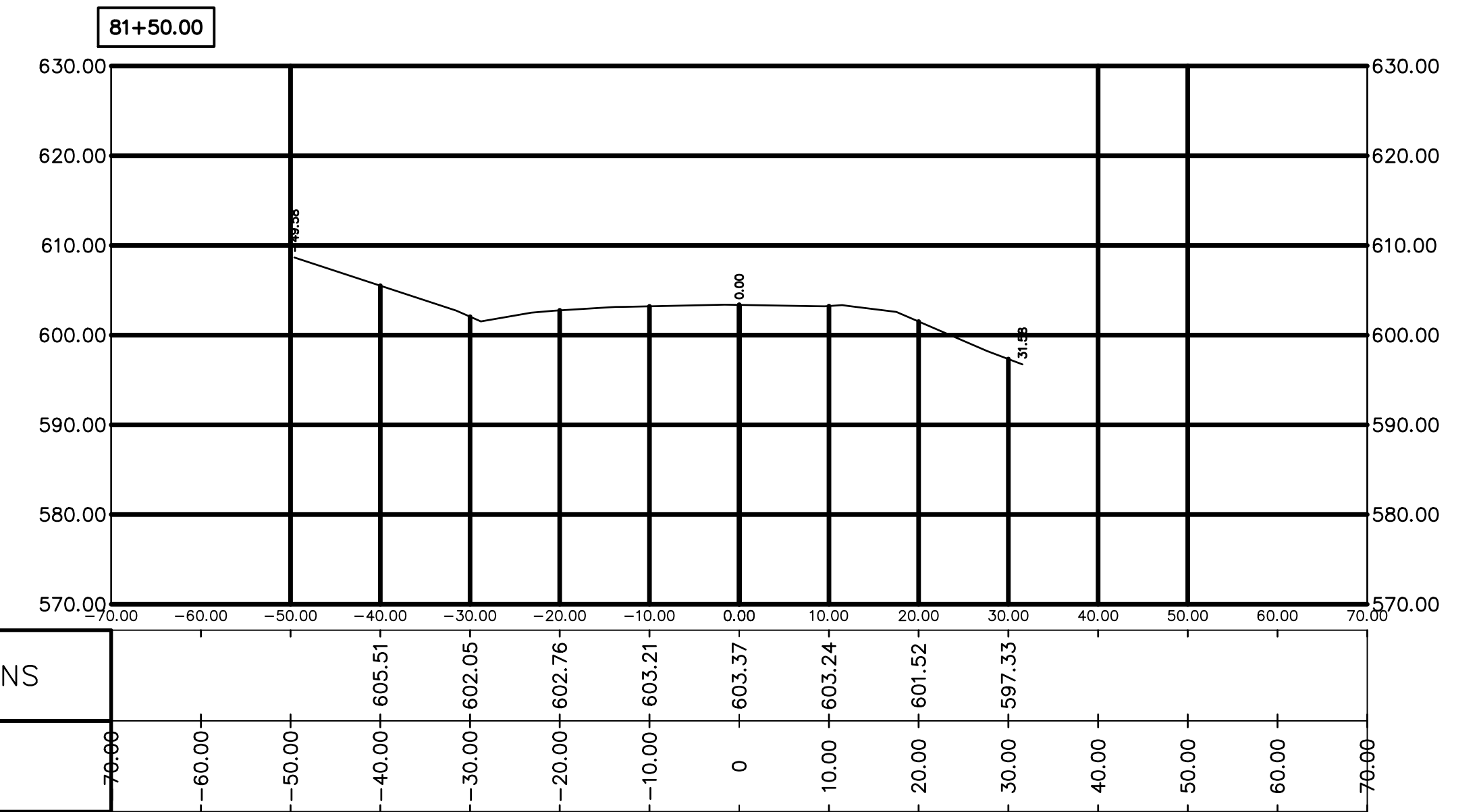
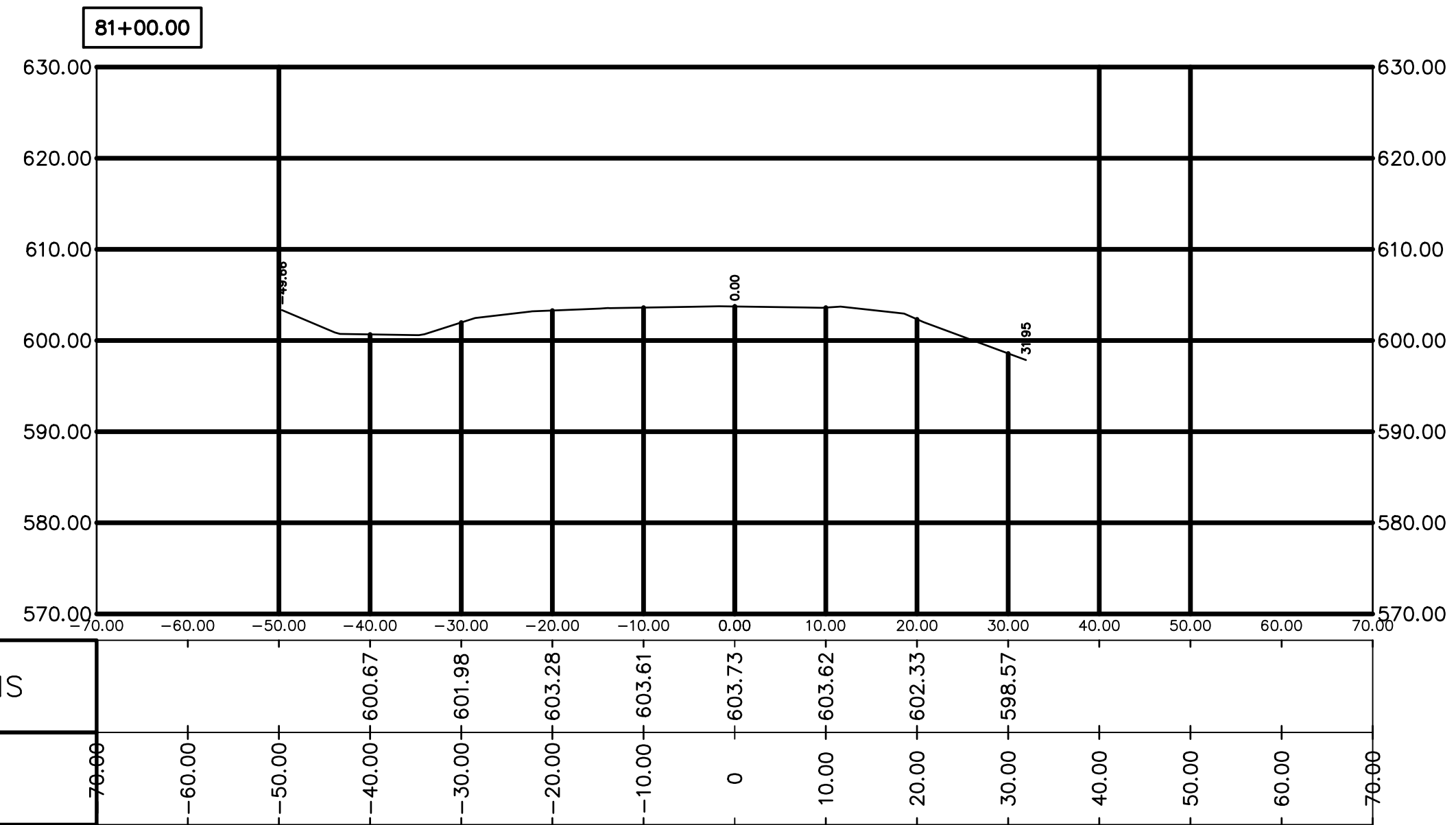
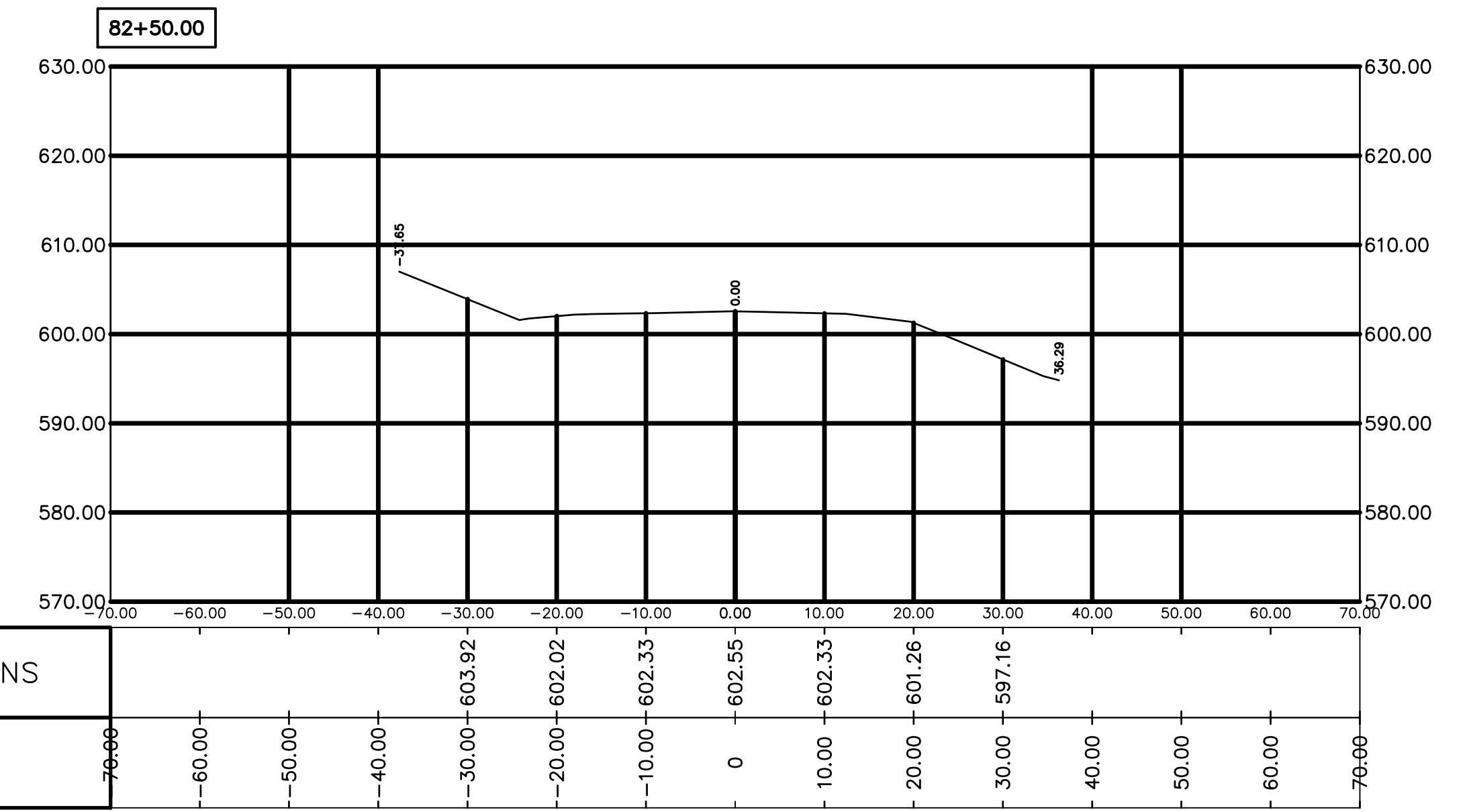
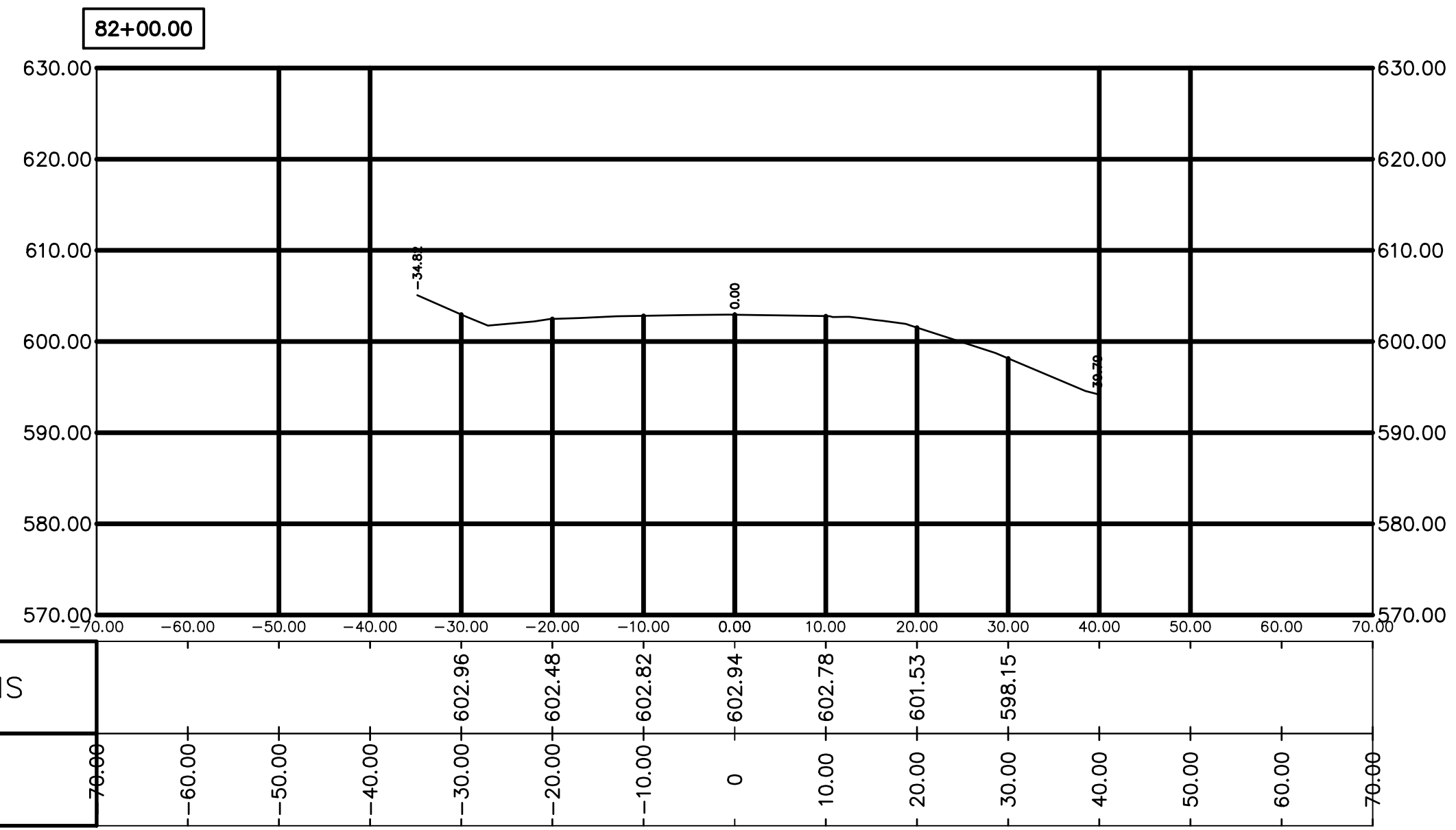
S:\CHARLEY\2022 Projects\1181 Rd. PM Highway to Lakeshore\CAD\1181 - DESIGN\2-20-2024.dwg - CSI (S) - 2/27/2024 11:30:43 AM Eric



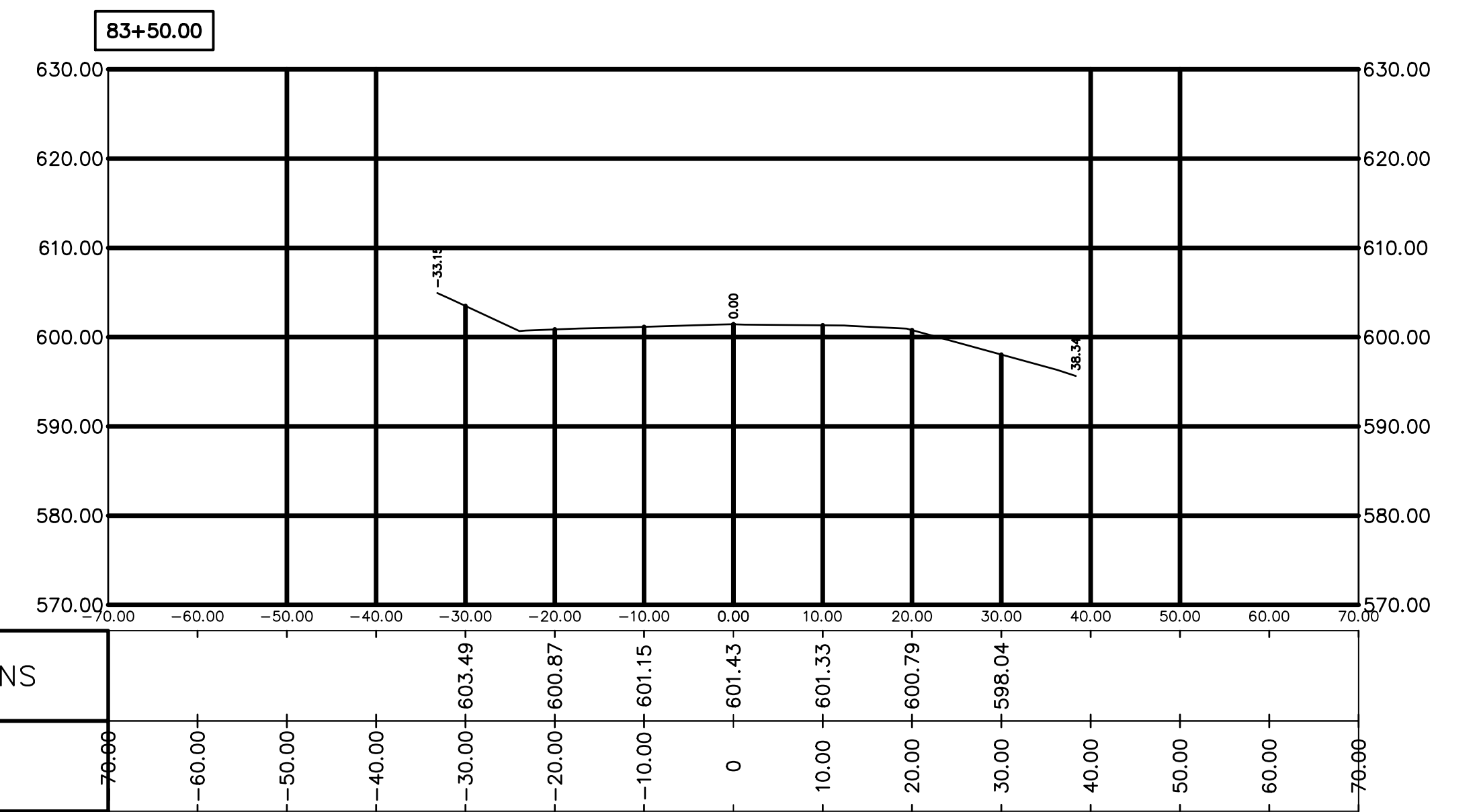
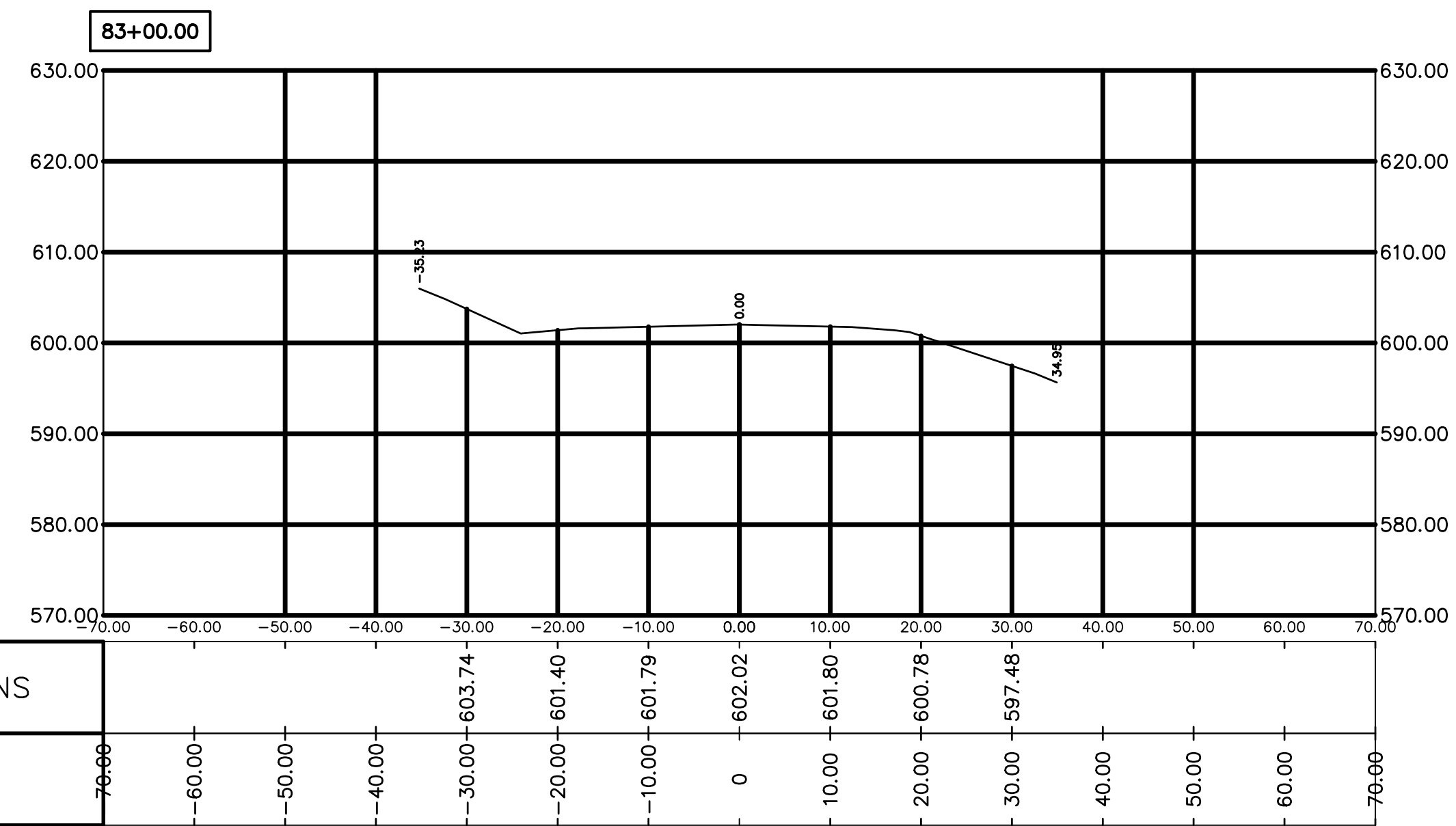
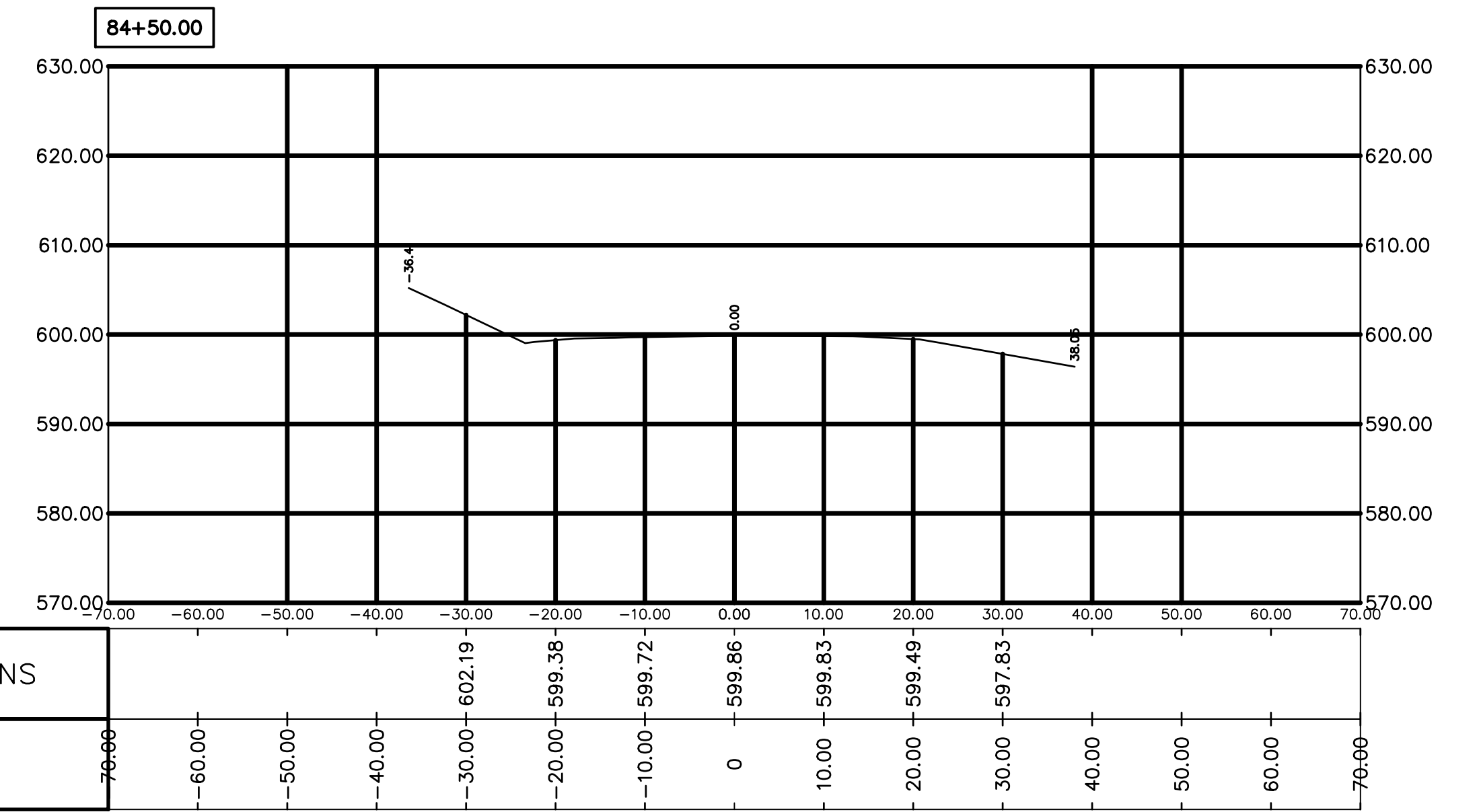
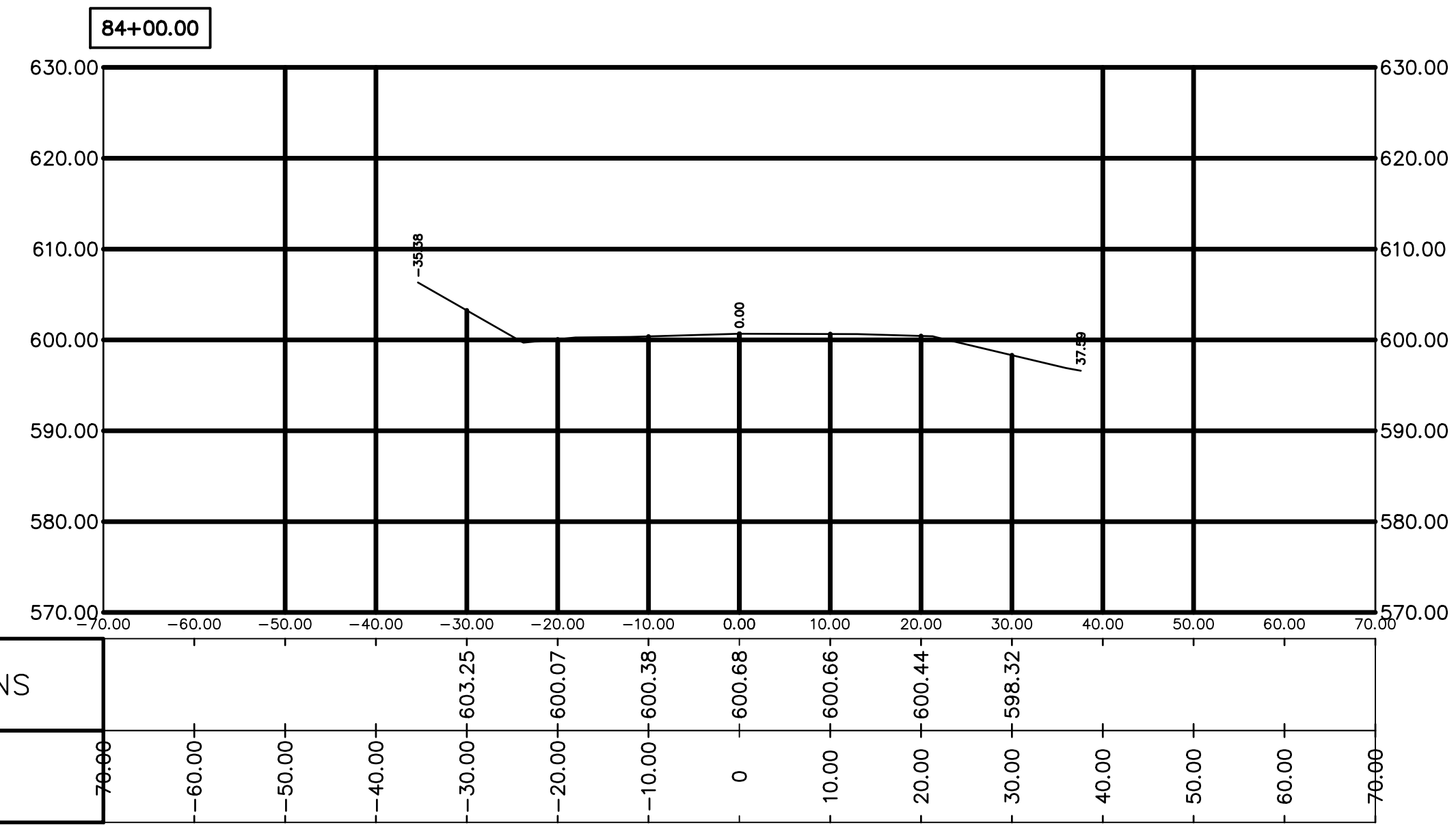
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (6) - 2/27/2024 11:31:03 AM Eric



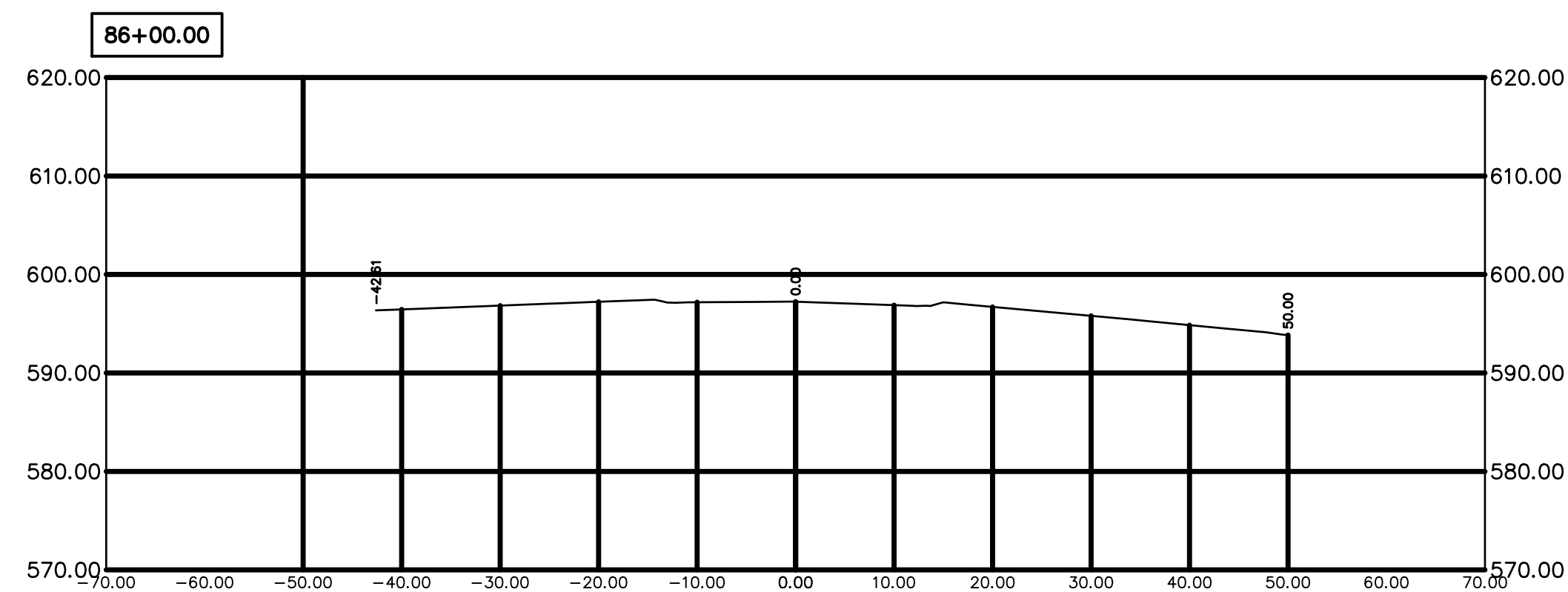
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (37) - 2/27/2024 11:31:24 AM Eric



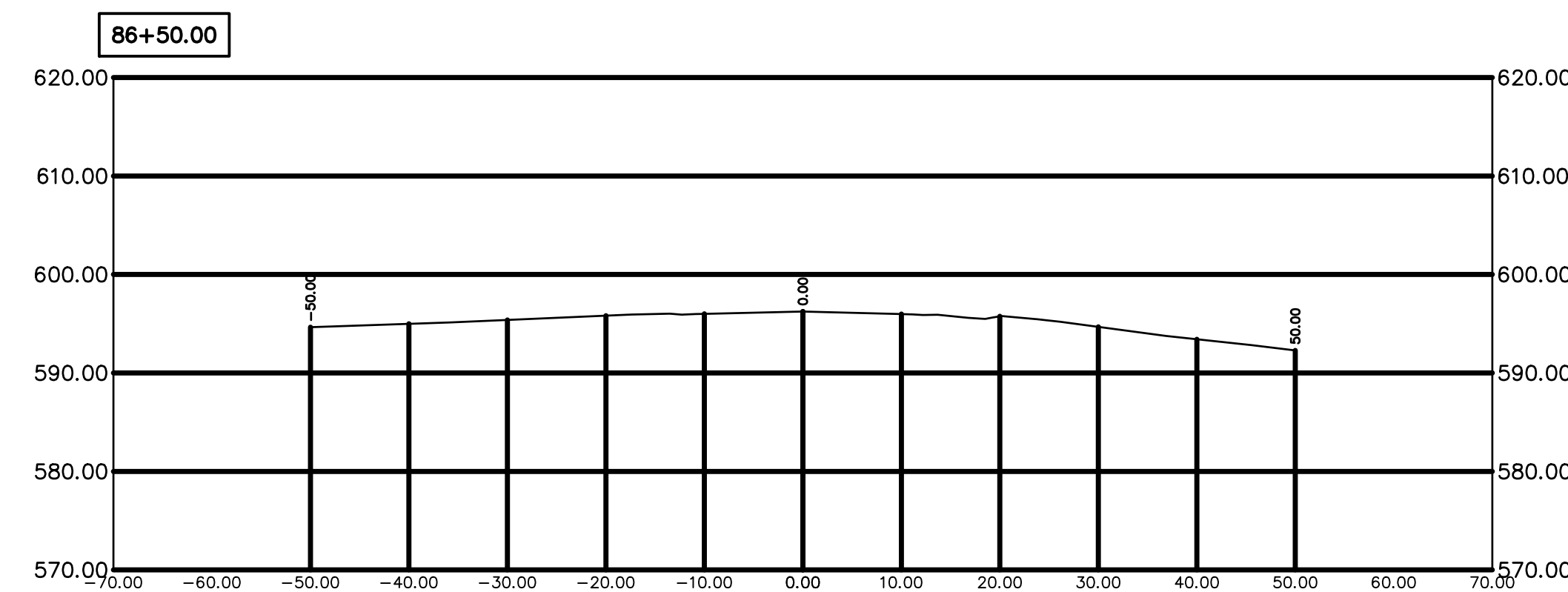
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (88) - 2/27/2024 11:31:47 AM Eric



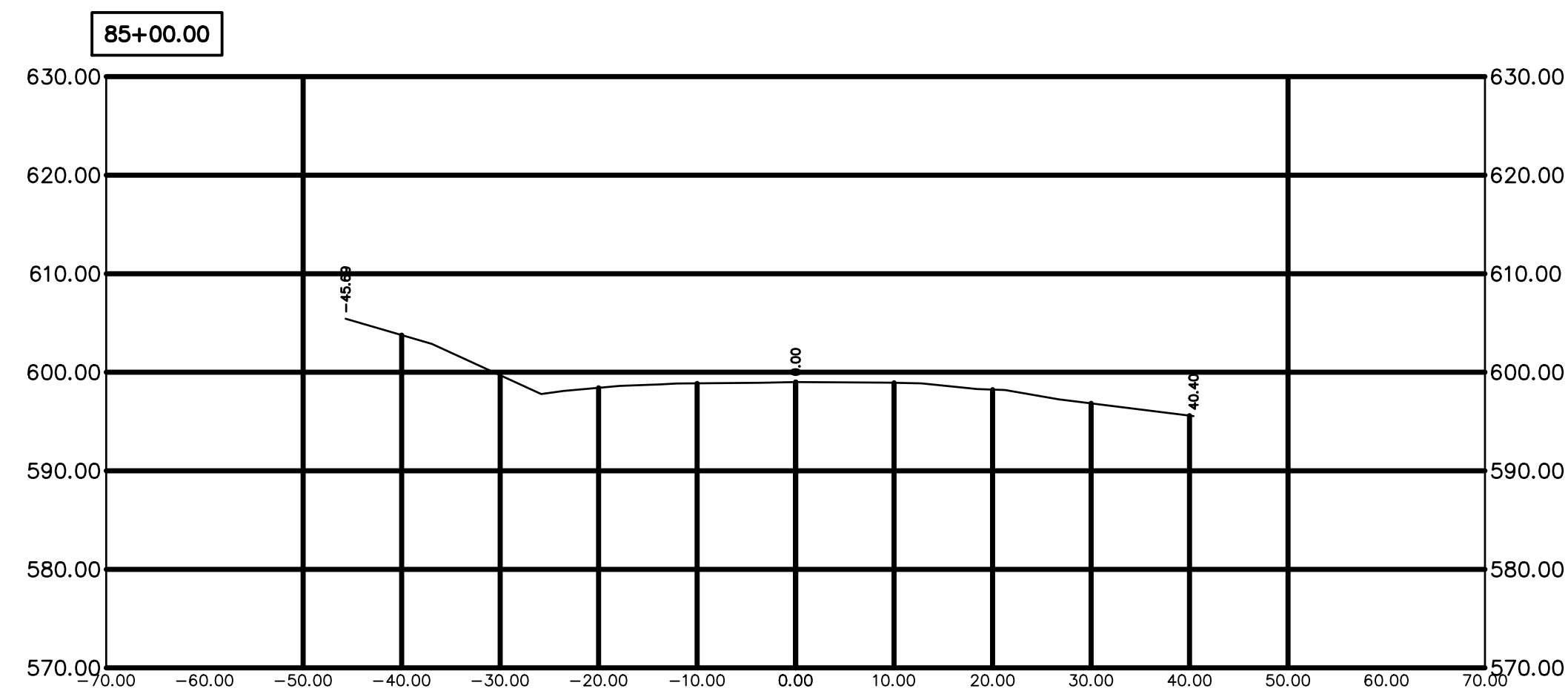
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (9) - 2/27/2024 11:32:49 AM Eric



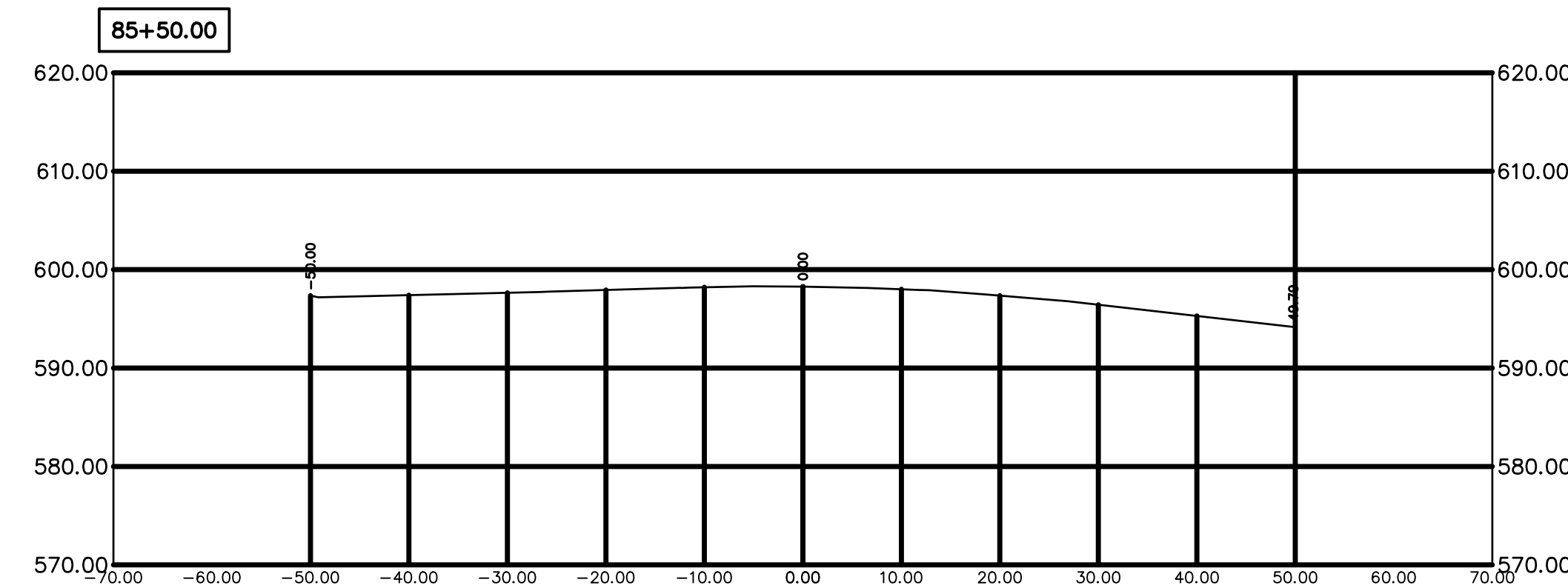
EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66



EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

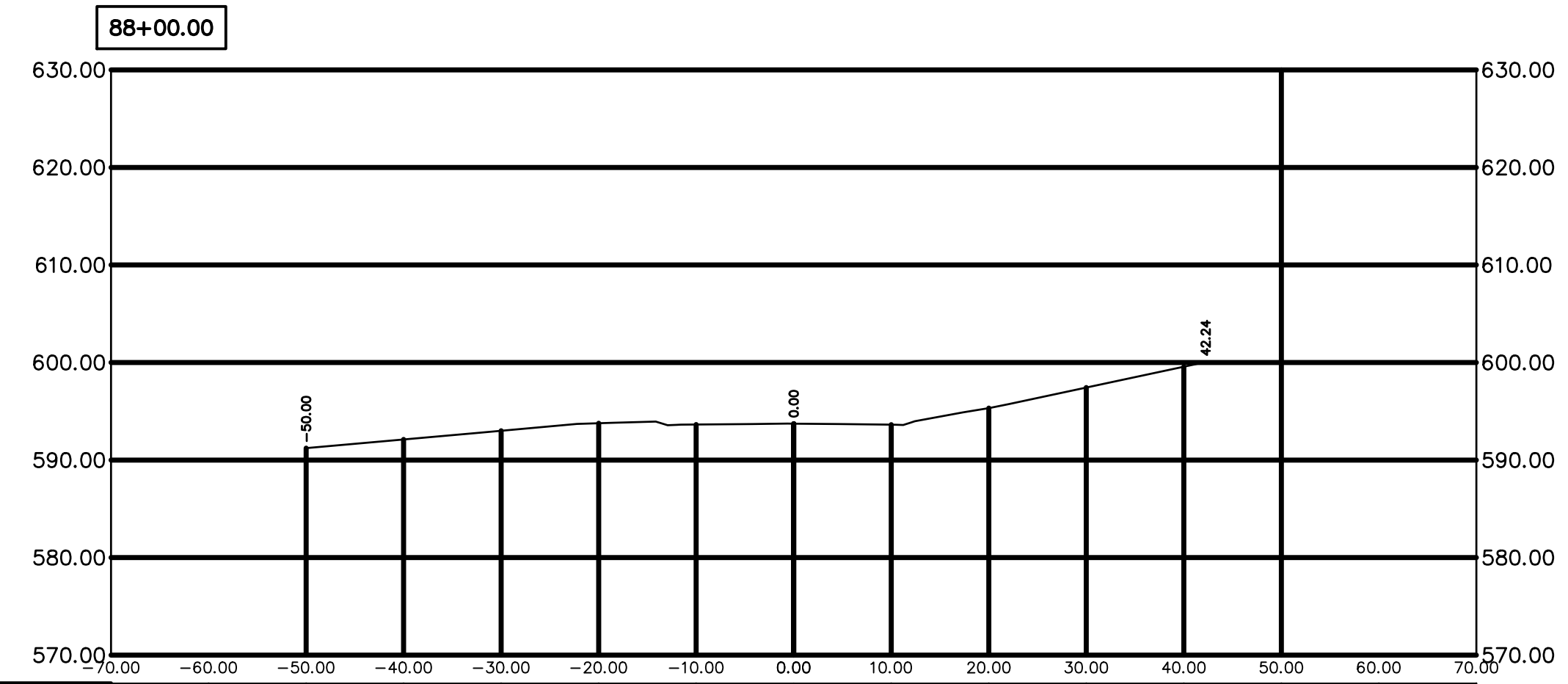


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

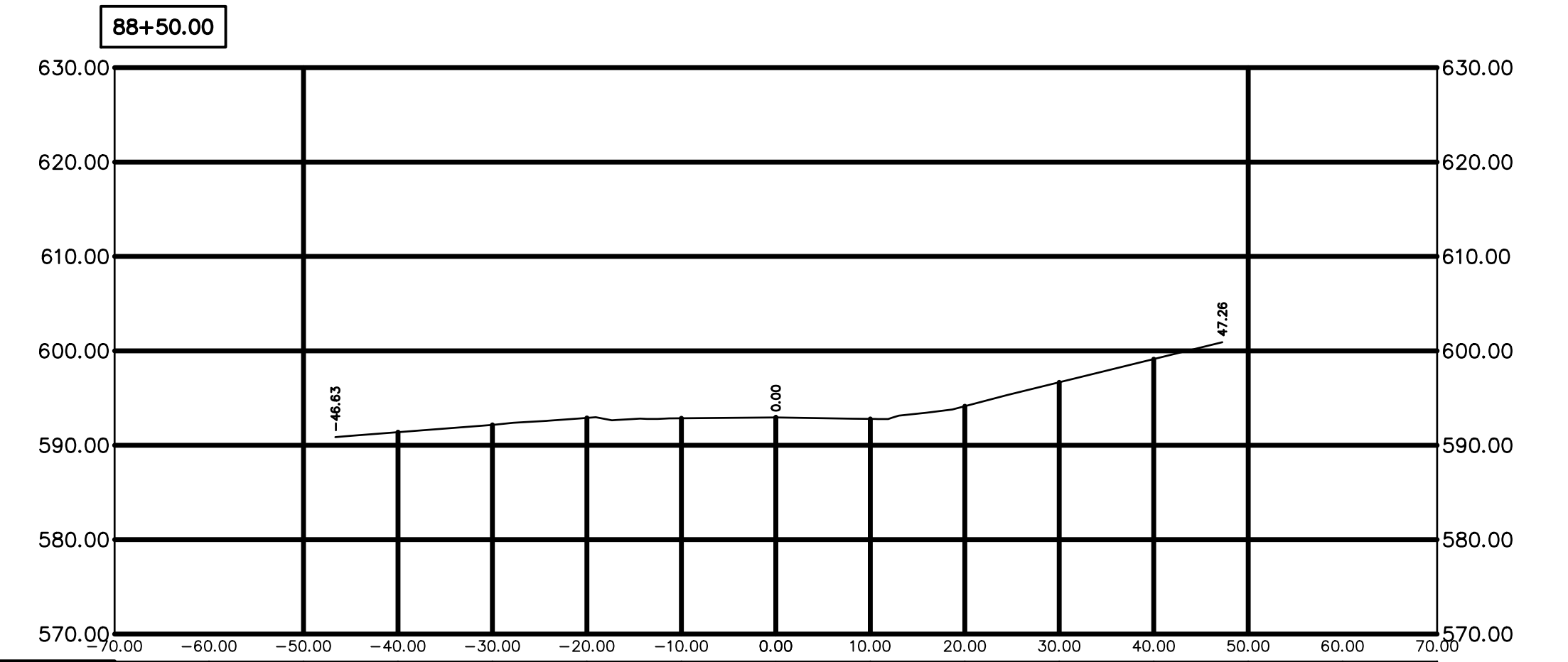


EXISTING ELEVATIONS	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66
OFFSET	76.66	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.66

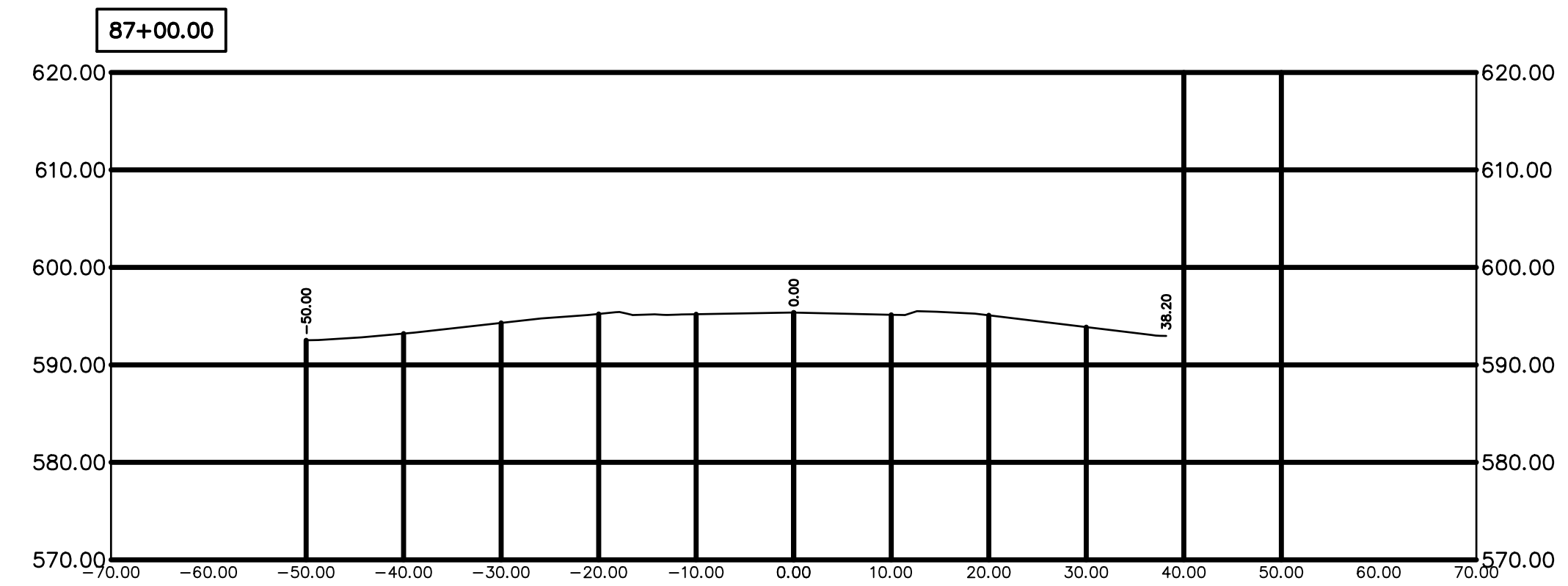
S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore\BASF - DESIGN\2-20-2024.dwg - CSI (40) - 2/27/2024 11:32:28 AM Eric



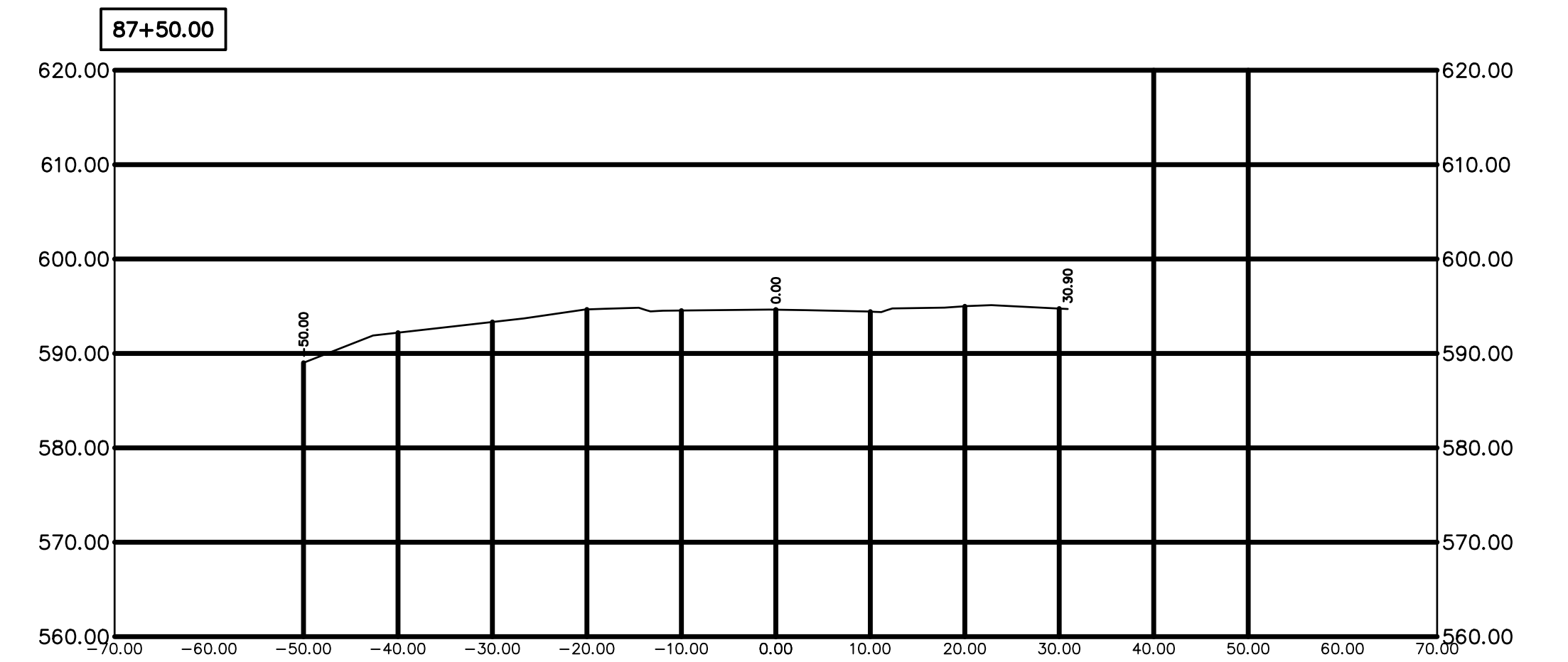
EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00



EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00



EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00



EXISTING ELEVATIONS	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00
OFFSET	76.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0	10.00	20.00	30.00	40.00	50.00	60.00	76.00

S:\CHARLEY\2022 Projects\Iris Rd. PM Highway to Lakeshore\CAD\Iris - PM Highway to Lakeshore - BASE - DESIGN 2-20-2024.dwg - CSI (41) - 2/27/2024 11:32:48 AM - Eric

