

09/08/99

27-JUN-2023 08:27 S:\DDC\Projects\W-5706Y NC 710 near Island Grove (SR 1345)\_RobCo\Roadway\PROJ\W-5706Y\_Rdy\_1.fsh.dgn \$\$\$USERNAME\$\$\$

**TIP PROJECT: W-5706Y**  
**CONTRACT: DF00433**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

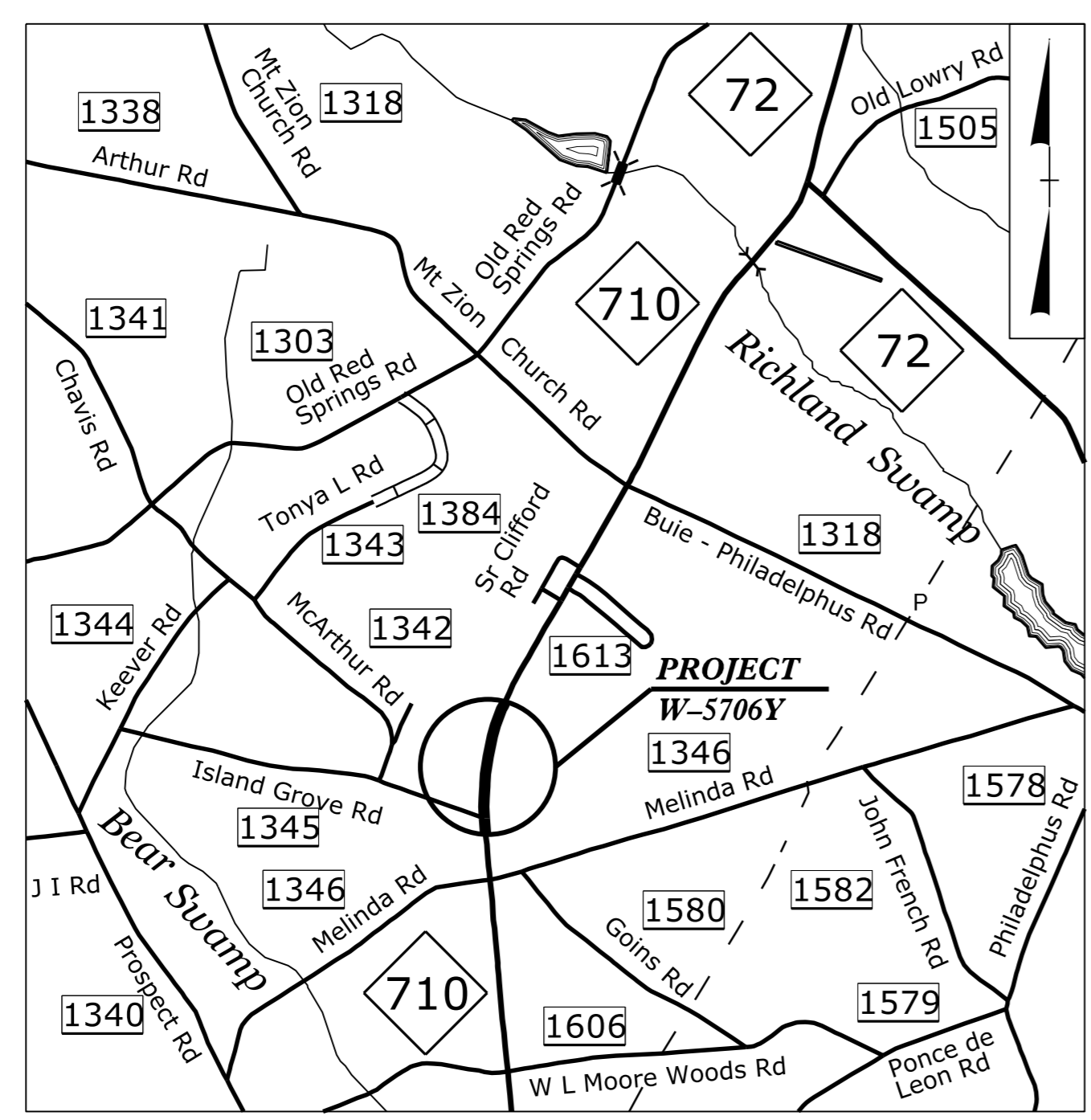
**ROBESON COUNTY**

**LOCATION: NC 710 AT THE CURVE NORTHWEST  
OF SR 1345 (ISLAND GROVE ROAD)**

**TYPE OF WORK: SUPERELEVATION CURVE IMPROVEMENTS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5706Y	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44852.1.26	HSIP-0710(040)	PE	
44852.3.26	HSIP-0710(040)	CONST	

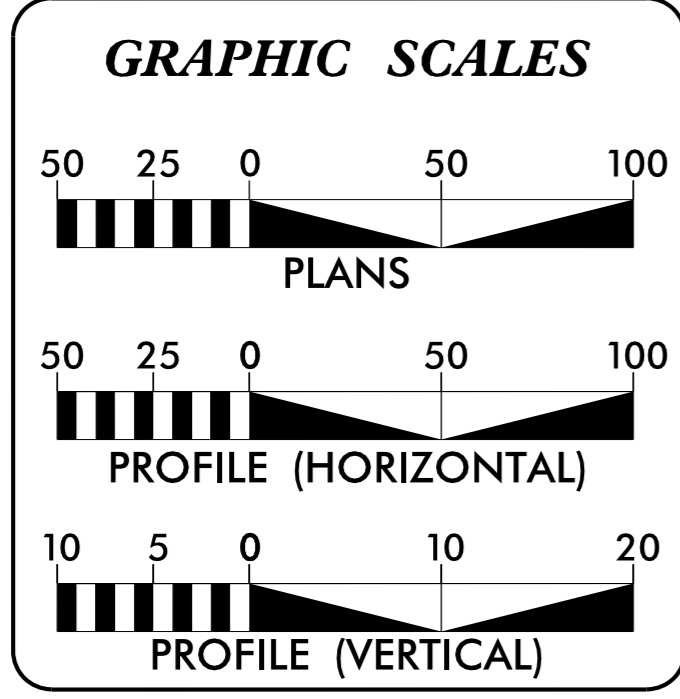
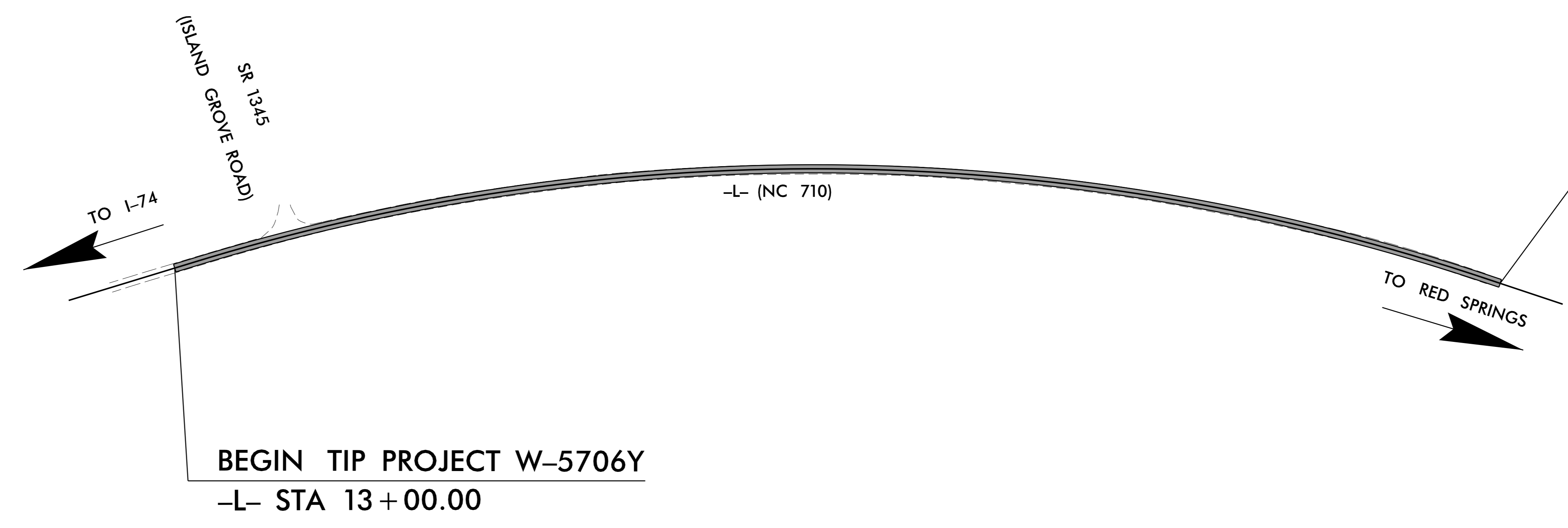
**FINAL PLANS**



**VICINITY MAP (N.T.S.)**



**END TIP PROJECT W-5706Y  
-L- STA 49 + 50.00**



**DESIGN DATA**

ADT 2020 = 5500  
V = 60 MPH

**PROJECT LENGTH**

W-5706Y TOTAL LENGTH = 0.691 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
431 Transportation Drive, Fayetteville, NC 28301

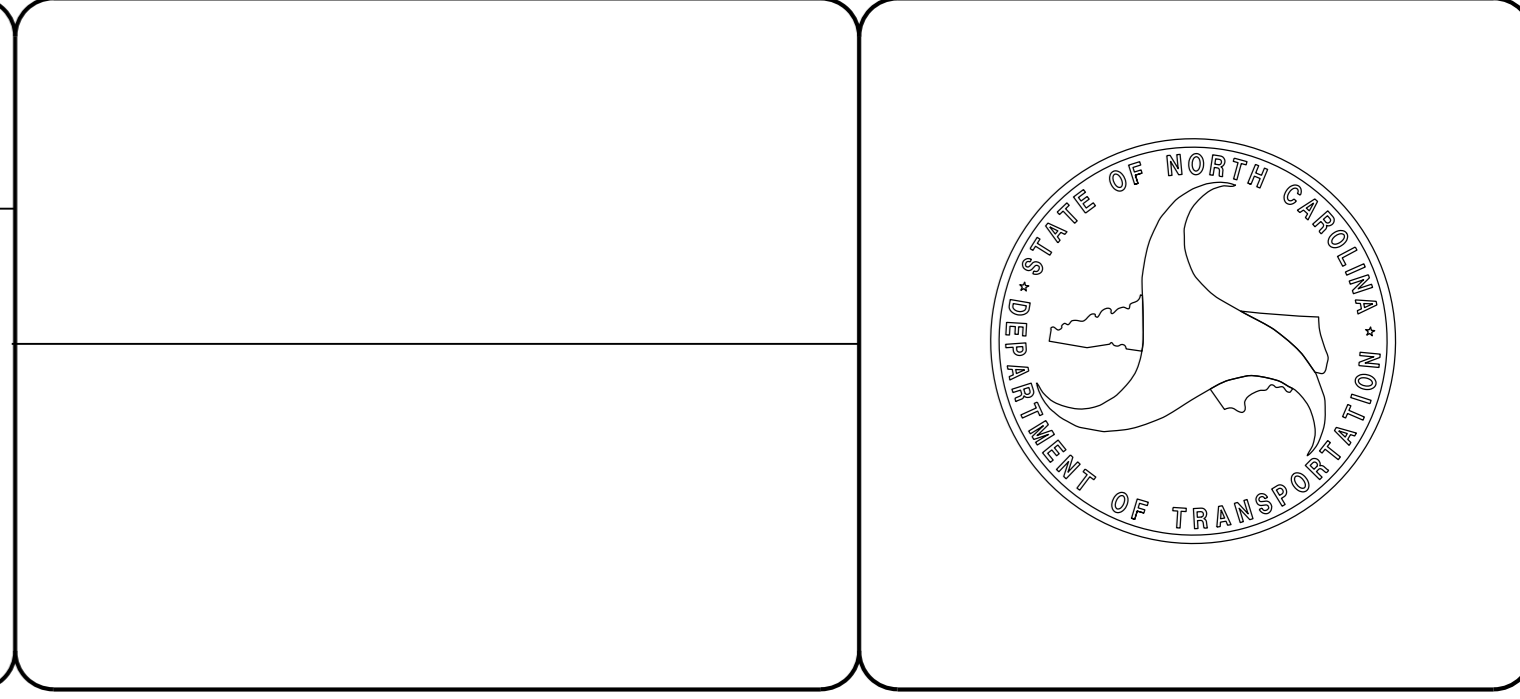
2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
N/A

**LETTING DATE:**  
JULY 19, 2023

**JOHN GAUTHIER**  
PROJECT ENGINEER

**ALEX HENDERSON**  
PROJECT DESIGN ENGINEER



# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	(23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----NLB
Proposed Wetland Boundary	-----NLB
Existing Endangered Animal Boundary	-----EAB
Existing Endangered Plant Boundary	-----EPB
Existing Historic Property Boundary	-----HPB
Known Contamination Area: Soil	-----S
Potential Contamination Area: Soil	-----S
Known Contamination Area: Water	-----W
Potential Contamination Area: Water	-----W
Contaminated Site: Known or Potential	☠☢

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	□
Area Outline	□
Cemetery	+
Building	□
School	□
Church	□
Dam	□

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----JS
Buffer Zone 1	-----BZ 1
Buffer Zone 2	-----BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	○
Secondary Horiz and Vert Control Point	○
Vertical Benchmark	⊗
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	▲
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◇
Existing C/A Monument	▲
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	▲
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----E
Proposed Temporary Construction Easement	-----E
Proposed Temporary Drainage Easement	-----TDE
Proposed Permanent Drainage Easement	-----PDE
Proposed Permanent Drainage/Utility Easement	-----DUE
Proposed Permanent Utility Easement	-----PUE
Proposed Temporary Utility Easement	-----TUE
Proposed Aerial Utility Easement	-----AUE

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----C
Proposed Slope Stakes Fill	-----F
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊗
Pavement Removal	-----
VEGETATION:	
Single Tree	○
Single Shrub	○
Hedge	-----

Woods Line	-----
Orchard	-----
Vineyard	-----

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

### UTILITIES:

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	□
Power Transformer	□
U/G Power Cable Hand Hole	□
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	○
U/G Power Line (SUE - LOS B)*	-----P
U/G Power Line (SUE - LOS C)*	-----P
U/G Power Line (SUE - LOS D)*	-----P

### TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Pedestal	□
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	□
U/G Telephone Test Hole (SUE - LOS A)*	○
U/G Telephone Cable (SUE - LOS B)*	-----T
U/G Telephone Cable (SUE - LOS C)*	-----T
U/G Telephone Cable (SUE - LOS D)*	-----T
U/G Telephone Conduit (SUE - LOS B)*	-----TC
U/G Telephone Conduit (SUE - LOS C)*	-----TC
U/G Telephone Conduit (SUE - LOS D)*	-----TC
U/G Fiber Optics Cable (SUE - LOS B)*	-----T FO
U/G Fiber Optics Cable (SUE - LOS C)*	-----T FO
U/G Fiber Optics Cable (SUE - LOS D)*	-----T FO

### WATER:

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	○
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	-----A/G Water

### TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□
U/G TV Test Hole (SUE - LOS A)*	○
U/G TV Cable (SUE - LOS B)*	-----TV
U/G TV Cable (SUE - LOS C)*	-----TV
U/G TV Cable (SUE - LOS D)*	-----TV
U/G Fiber Optic Cable (SUE - LOS B)*	-----TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	-----TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	-----TV FO

### GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	○
U/G Gas Line (SUE - LOS B)*	-----G
U/G Gas Line (SUE - LOS C)*	-----G
U/G Gas Line (SUE - LOS D)*	-----G
Above Ground Gas Line	-----A/G Gas

### SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----SS
Above Ground Sanitary Sewer	-----A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	○
SS Force Main Line (SUE - LOS B)*	-----FSS
SS Force Main Line (SUE - LOS C)*	-----FSS
SS Force Main Line (SUE - LOS D)*	-----FSS

### MISCELLANEOUS:

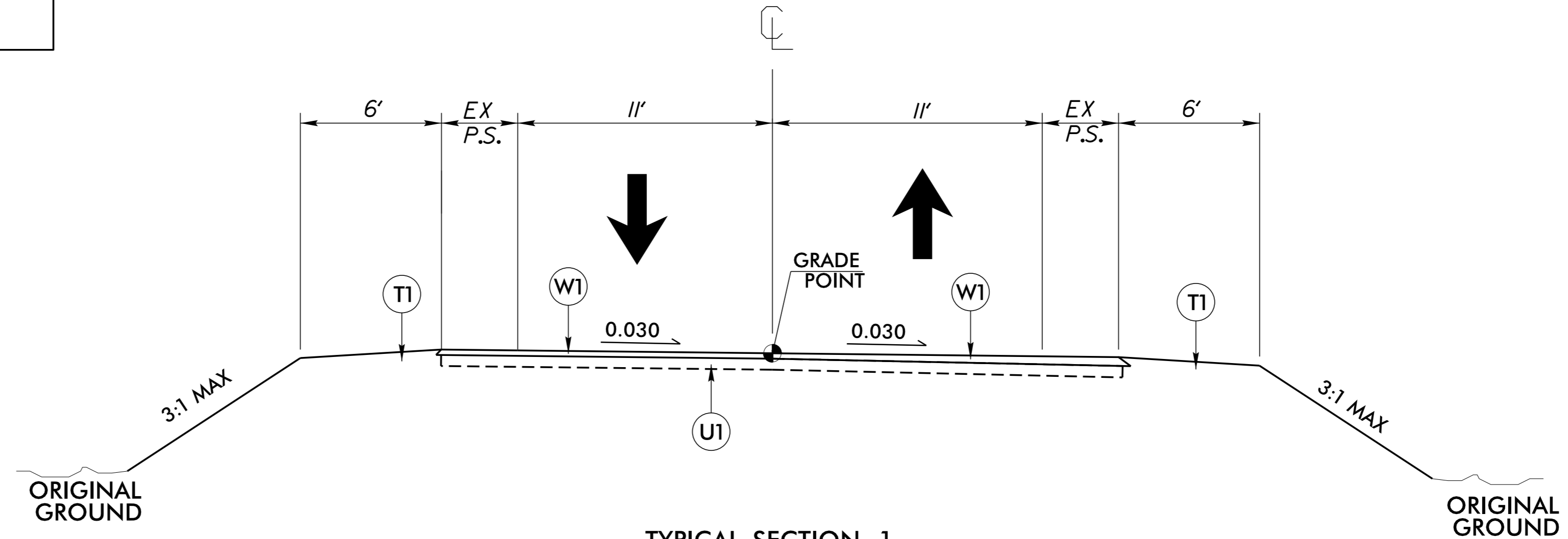
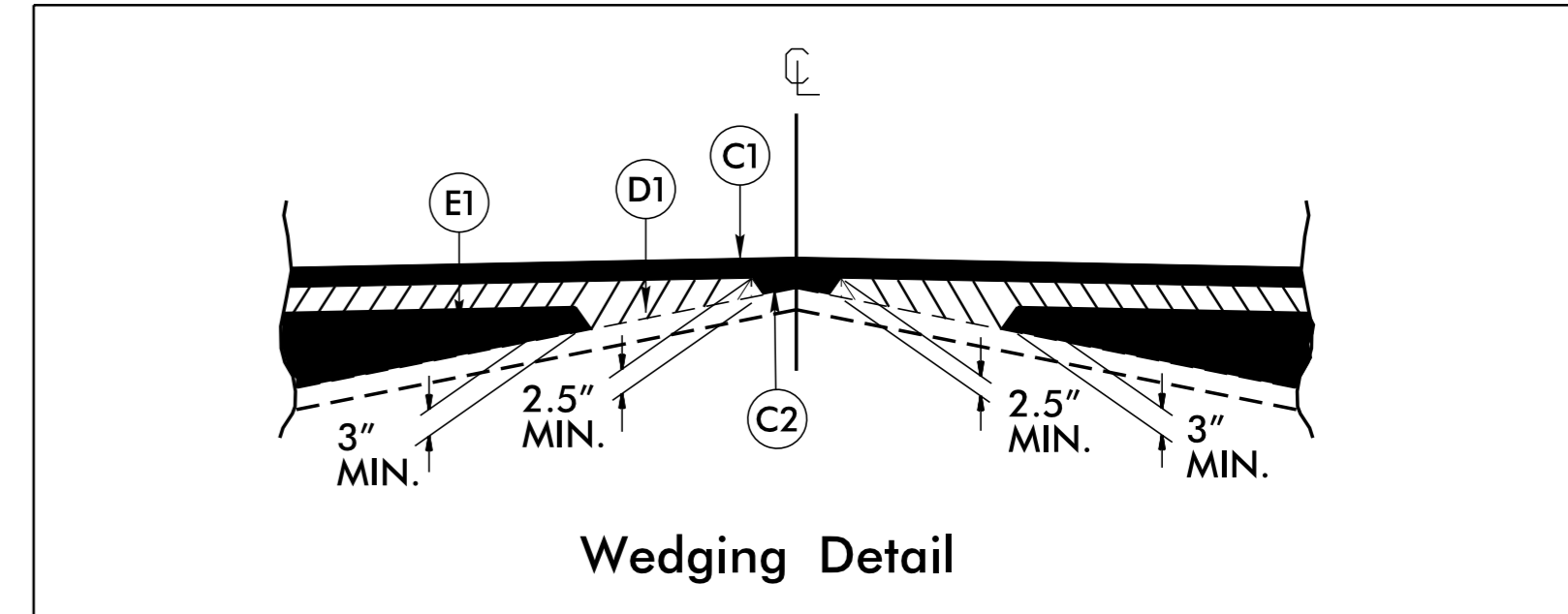
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown U/G Line (SUE - LOS B)*	-----TUTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	□
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

FINAL PAVEMENT DESIGN

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
T1	EARTH MATERIAL.
U1	EXISTING PAVEMENT.
W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL ON THIS SHEET).

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

MILL 1.5" TO 0"  
 -L- STA. 12+25.00 TO 13+00.00



MILL 0" TO 1.5"  
 -L- STA. 49+50.00 TO 50+25.00

**MILLING AT PAVEMENT TIE-INS**

**NOTES TO CONTRACTOR**

Mill the existing pavement in accordance with the following sketch or as directed by the Engineer.

Perform the work in accordance with Section 607 of the January 2018 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

**PROJECT NOTES**

1. The contractor shall not work on both sides of the road simultaneously within the same area.
2. Ingress and egress shall be maintained to all businesses and dwellings on the project.
3. At the end of each workday, the contractor shall be required to backfill any area adjacent to existing travelway that has been graded, leaving no more than a 1" drop-off.
4. A minimum of two-way, two-lane traffic (plus all existing left and right turn lanes) shall be maintained during periods of construction inactivity.
5. The Contractor shall not be allowed to stop traffic for more than 5 minutes at a time in any one direction.
6. During periods of construction inactivity, the difference in elevation between lanes shall not exceed 1-1/2 inch.
7. Access to police and fire stations, fire hydrants, and hospitals shall be maintained at all times.
8. During periods of construction inactivity, place cones/drums 3' from existing edge of pavement (travelway) as directed by the Engineer.
9. Contractor to install and maintain Erosion Control devices as directed by the Engineer.
10. Contractor shall provide Driveway Turnouts at all soil or gravel drives as directed by Engineer.
11. Signing will be incidental to the project. The Contractor is responsible for relocating, removing, replacing or installing signs as directed by the Engineer. There will be no direct pay for the relocation, removal, replacement or installation of signs.

CONTRACTOR SHALL COORDINATE WITH LOCAL TRAFFIC SERVICES UNIT PLACEMENT OF ALL PAVEMENT MARKINGS AND SIGNS.

FOR PAVEMENT MARKING AND SIGNING, CONTACT TRAFFIC SERVICES 910-364-0606, 14 DAYS PRIOR TO FINAL PLACEMENT.

6/2/99  
 27 JUN 2023 08:31  
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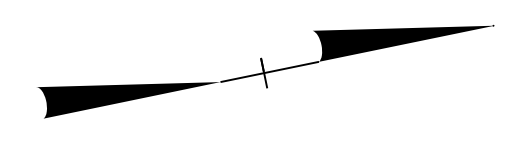
**SUMMARY OF EARTHWORK**  
*IN CUBIC YARDS*

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
L 13+00 TO 49+50	288		1410	1410	288
5% TO REPLACE TOP SOIL ON BORROW PIT				71	
PROJECT TOTAL	288			1481	288
SAY	300			1500	300

**Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, Removal of Existing Pavement, and Removal of Existing Concrete will be paid for at the contract lump sum price for "Grading."**

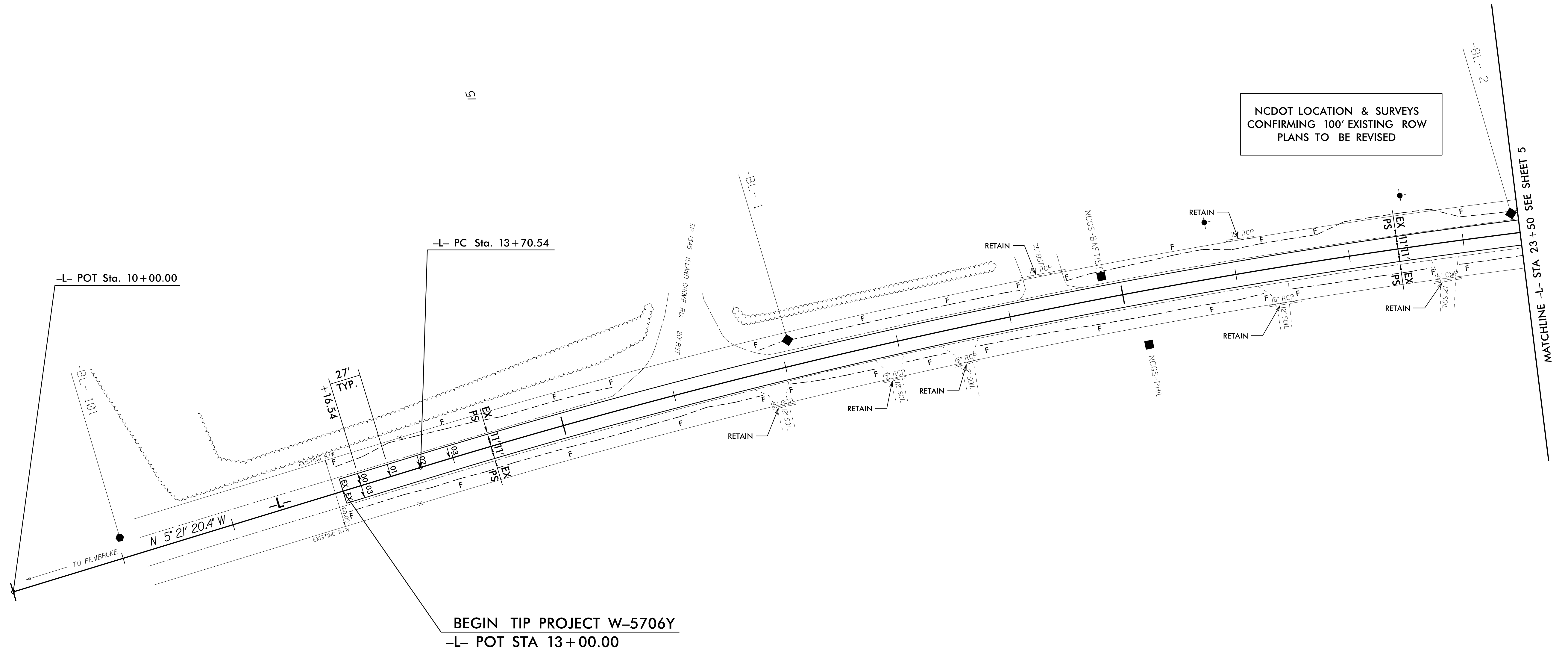
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REVISIONS

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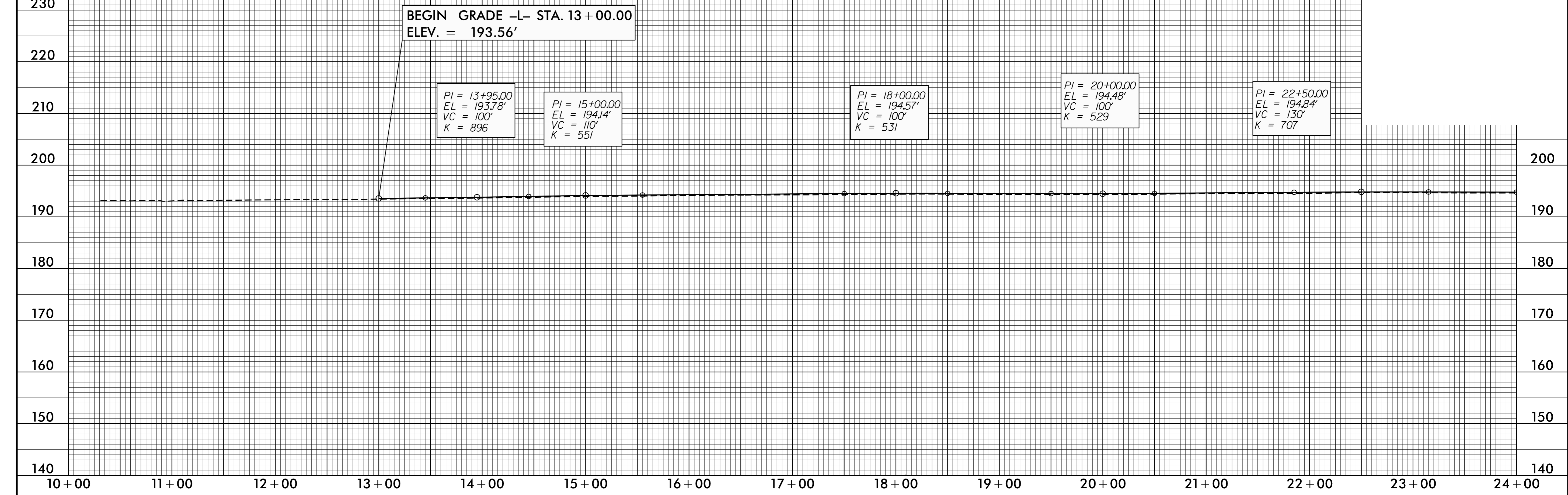


BEGIN TIP PROJECT W-5706Y  
 -L- POT STA 13+00.00

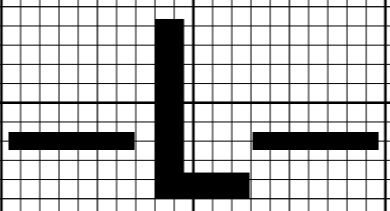
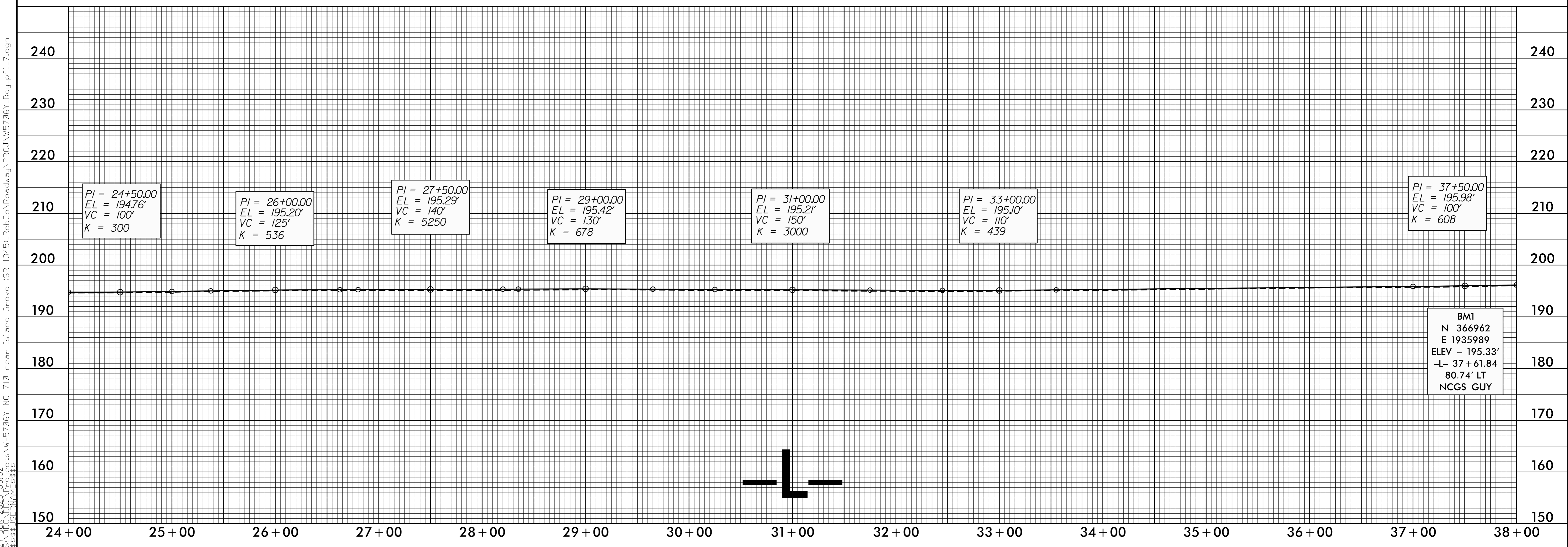




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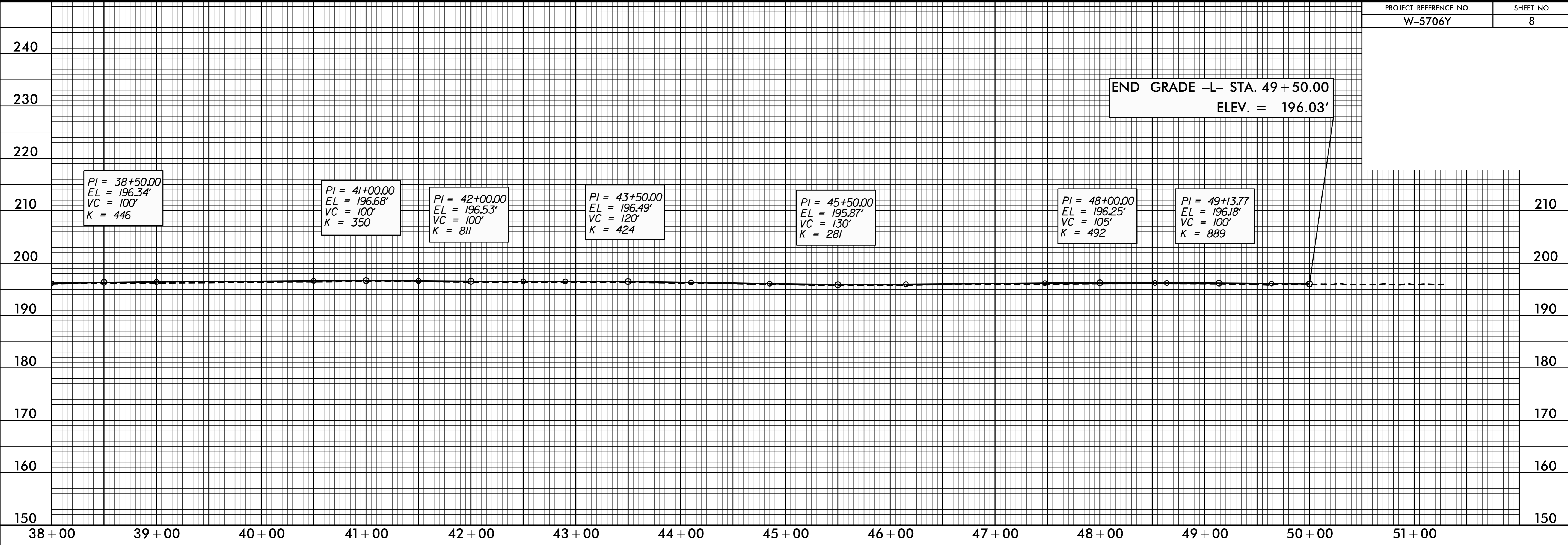


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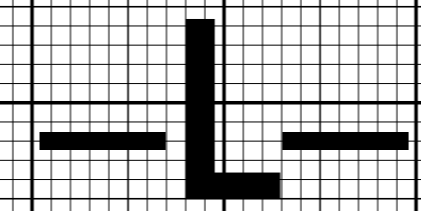


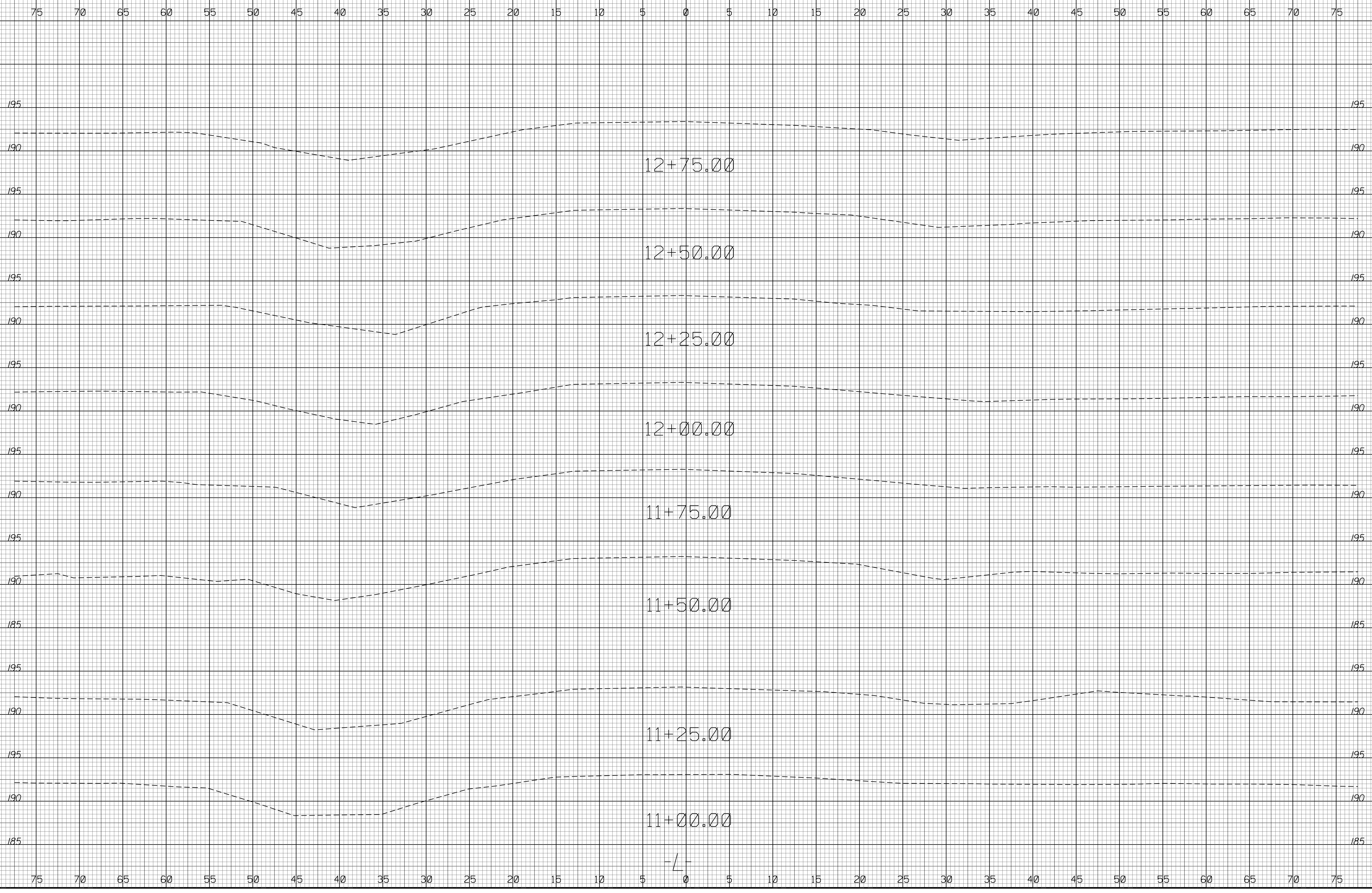


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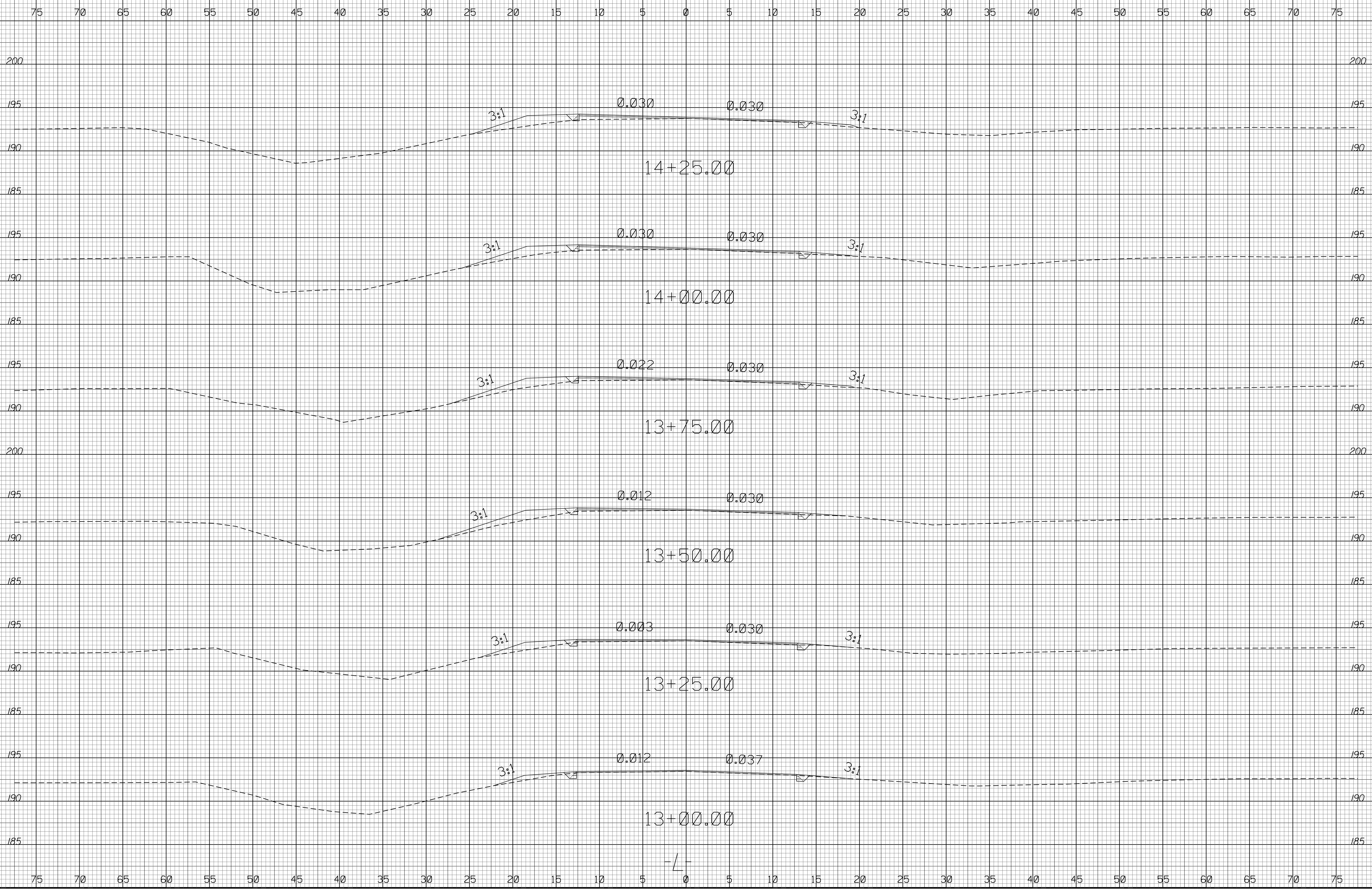


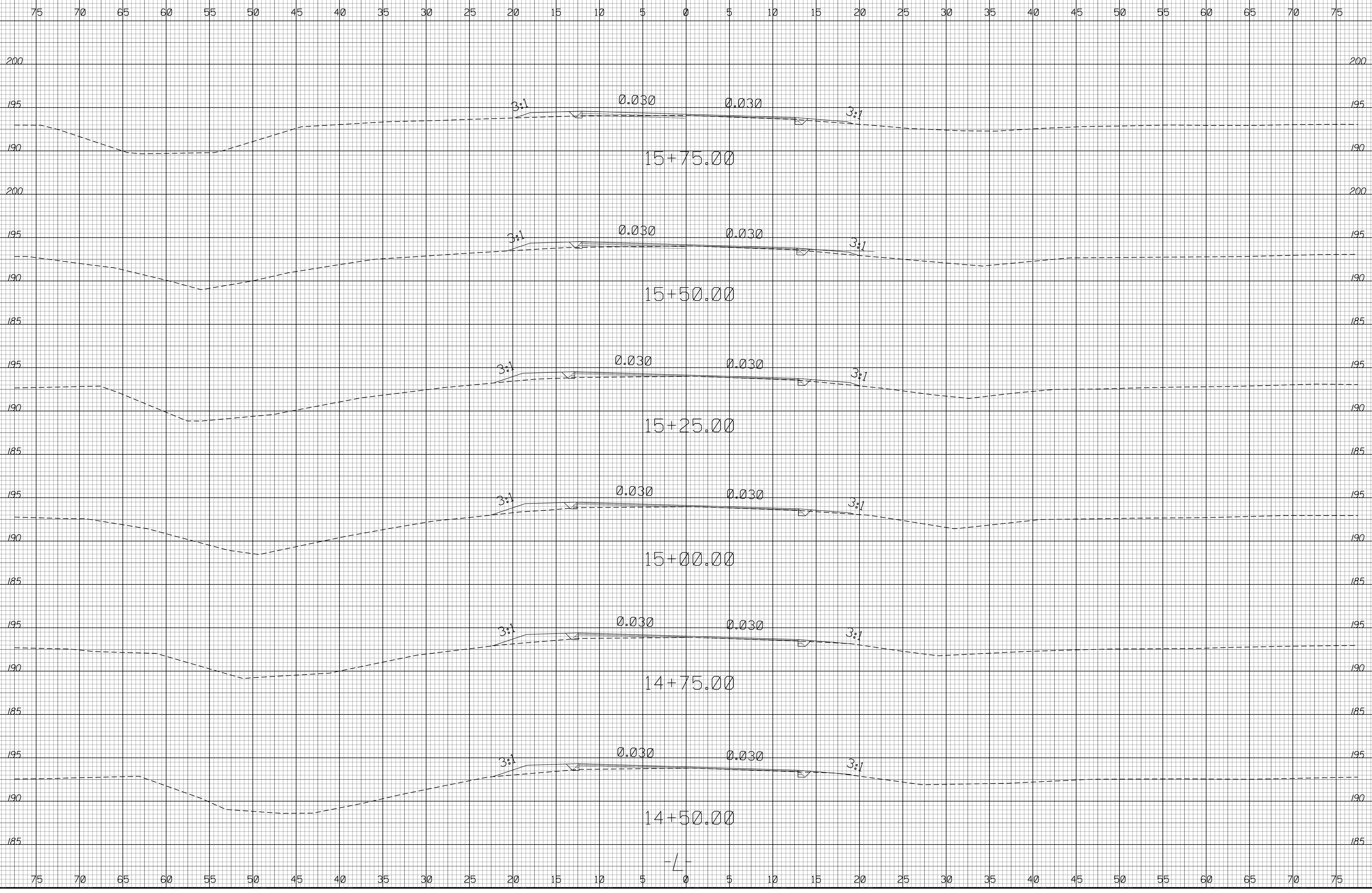
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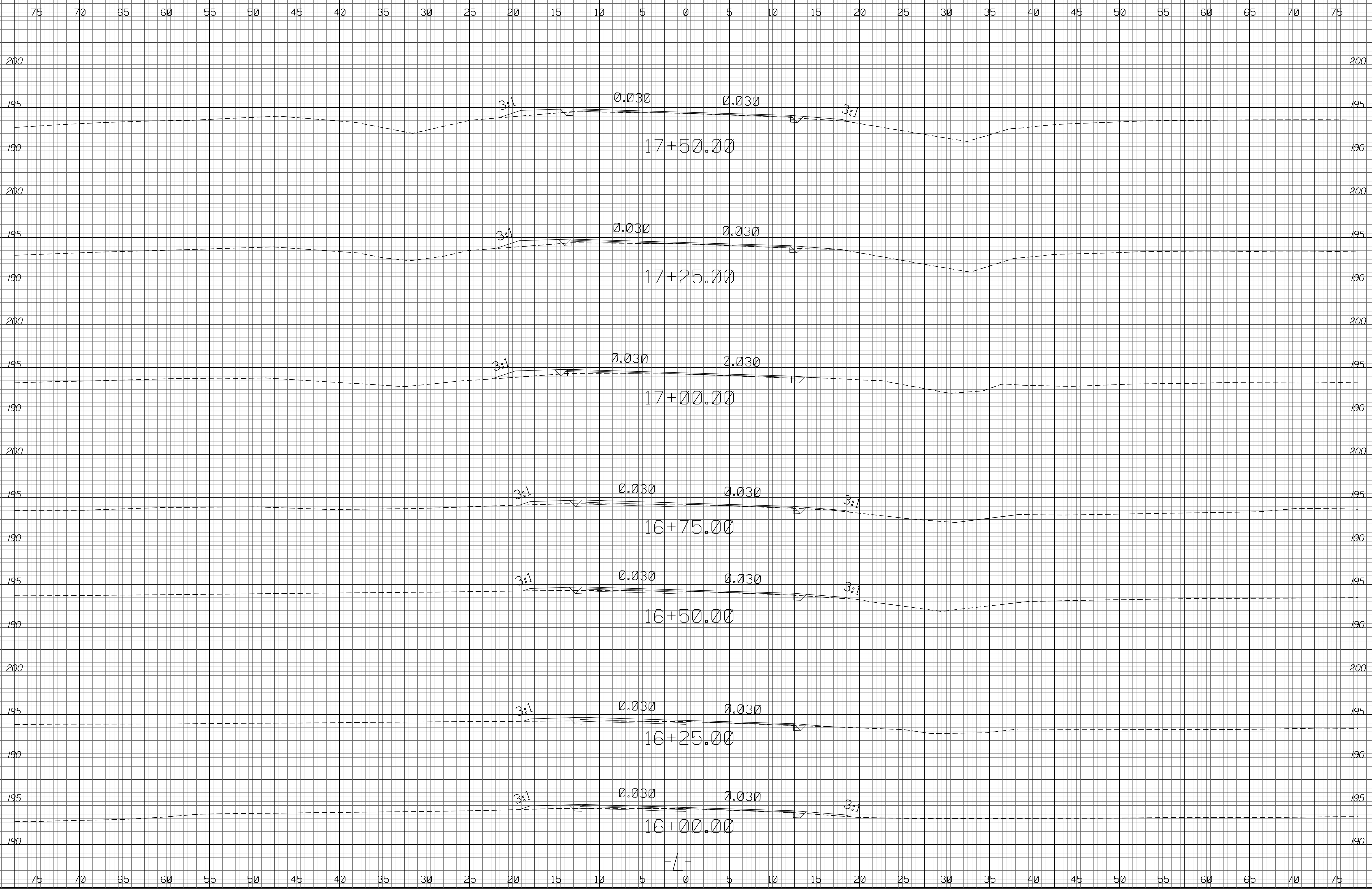


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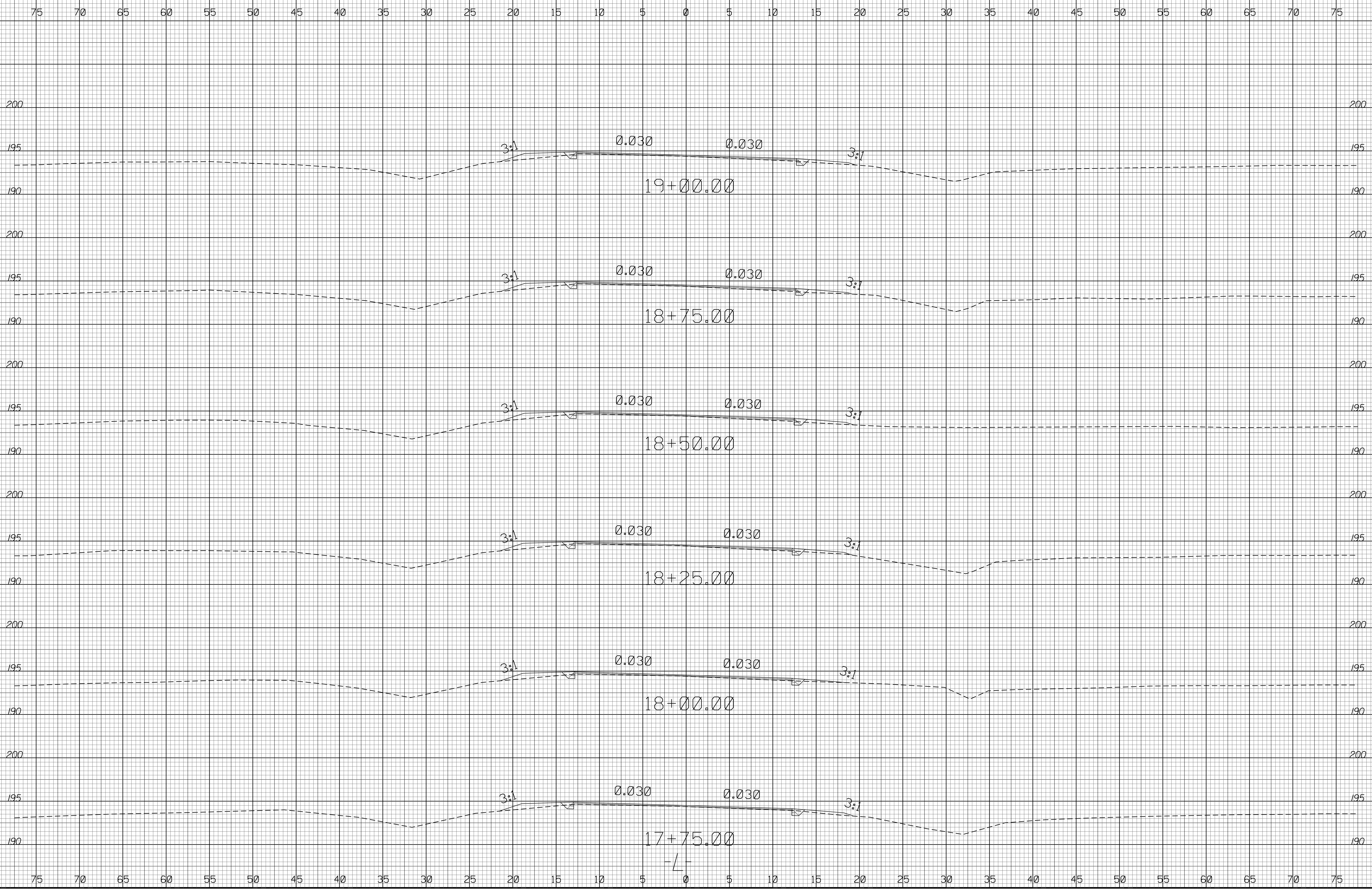


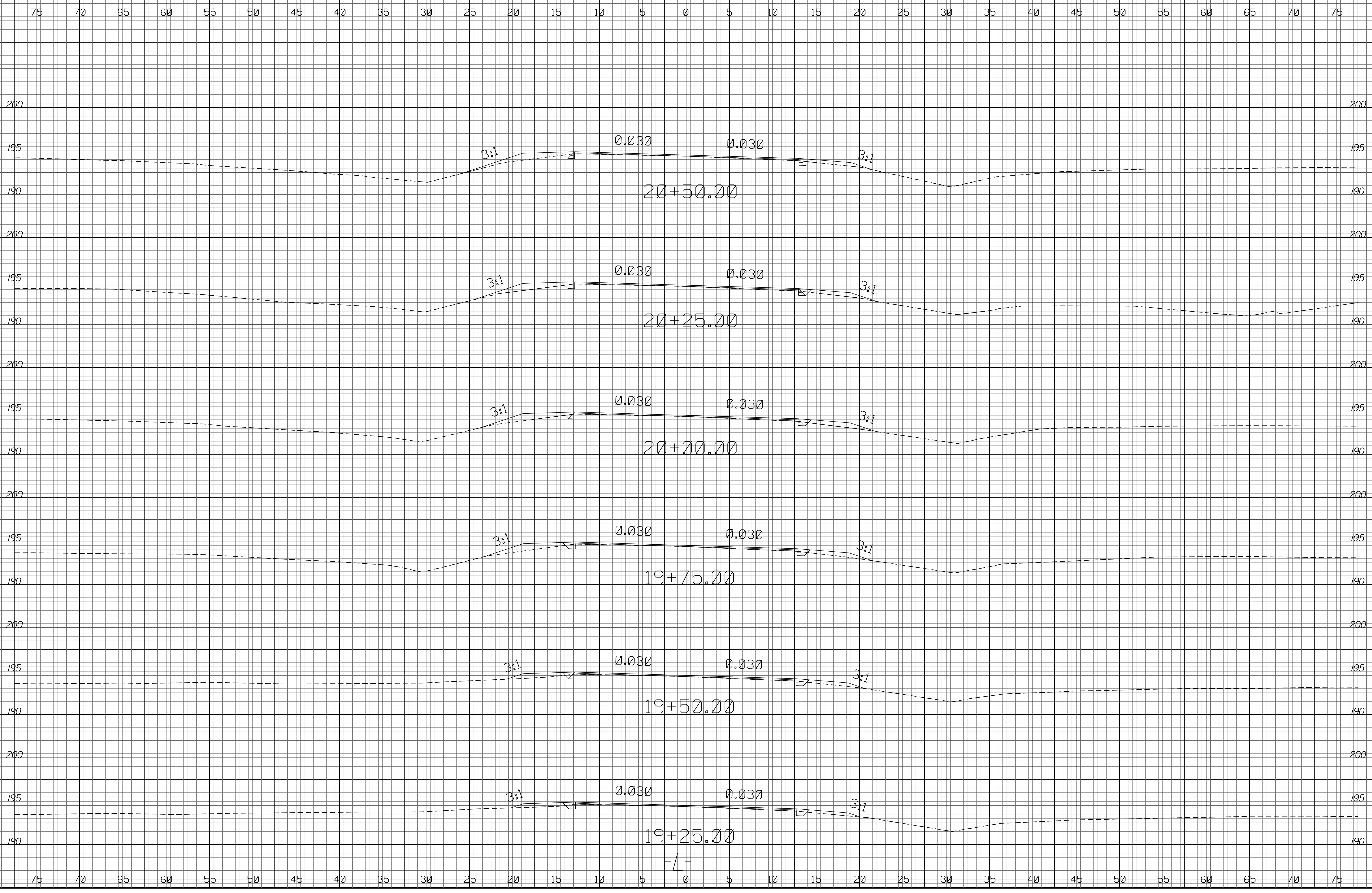
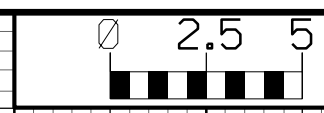


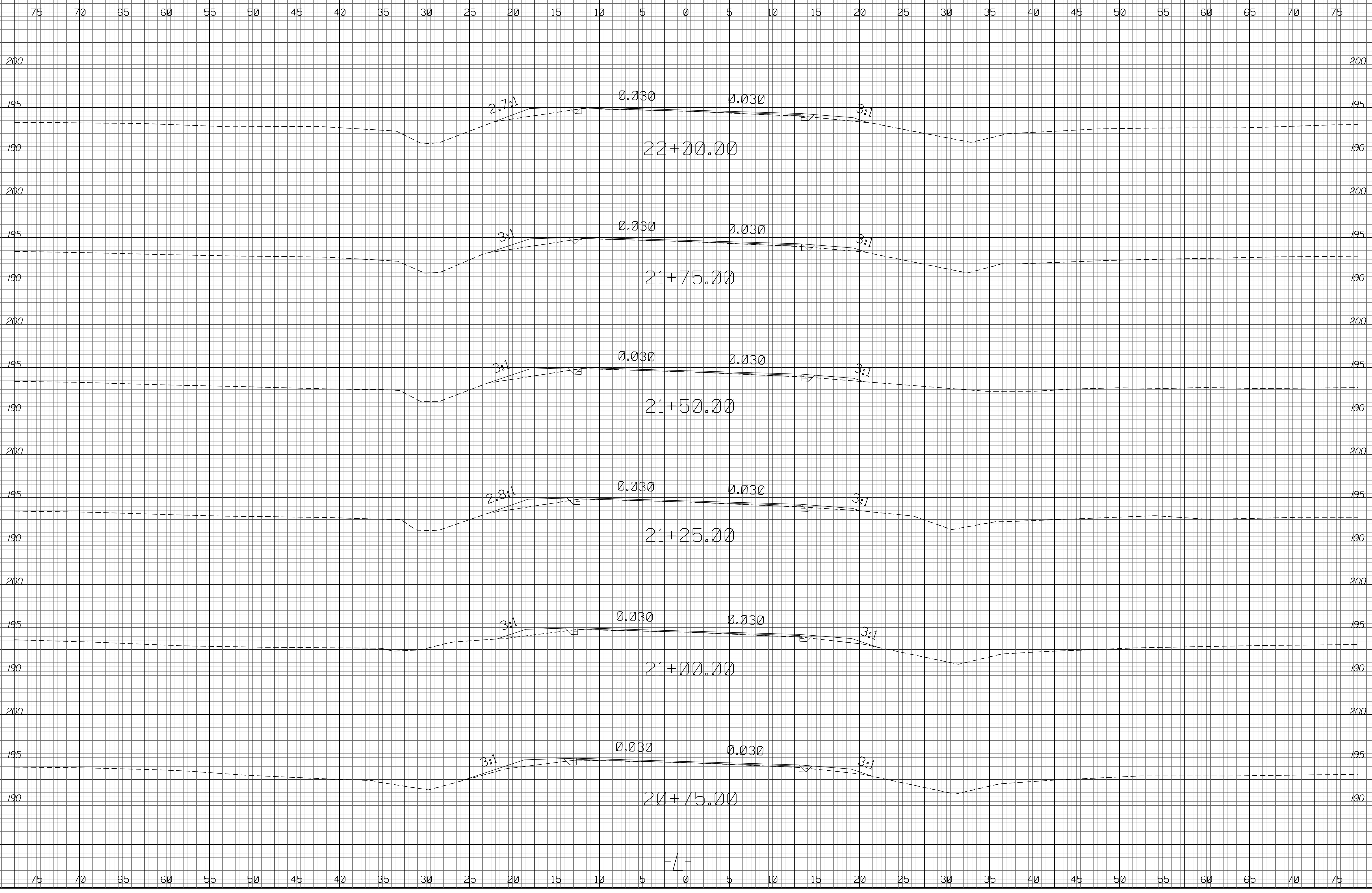
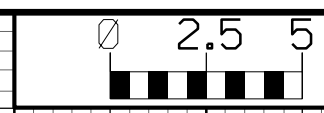
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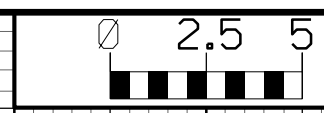






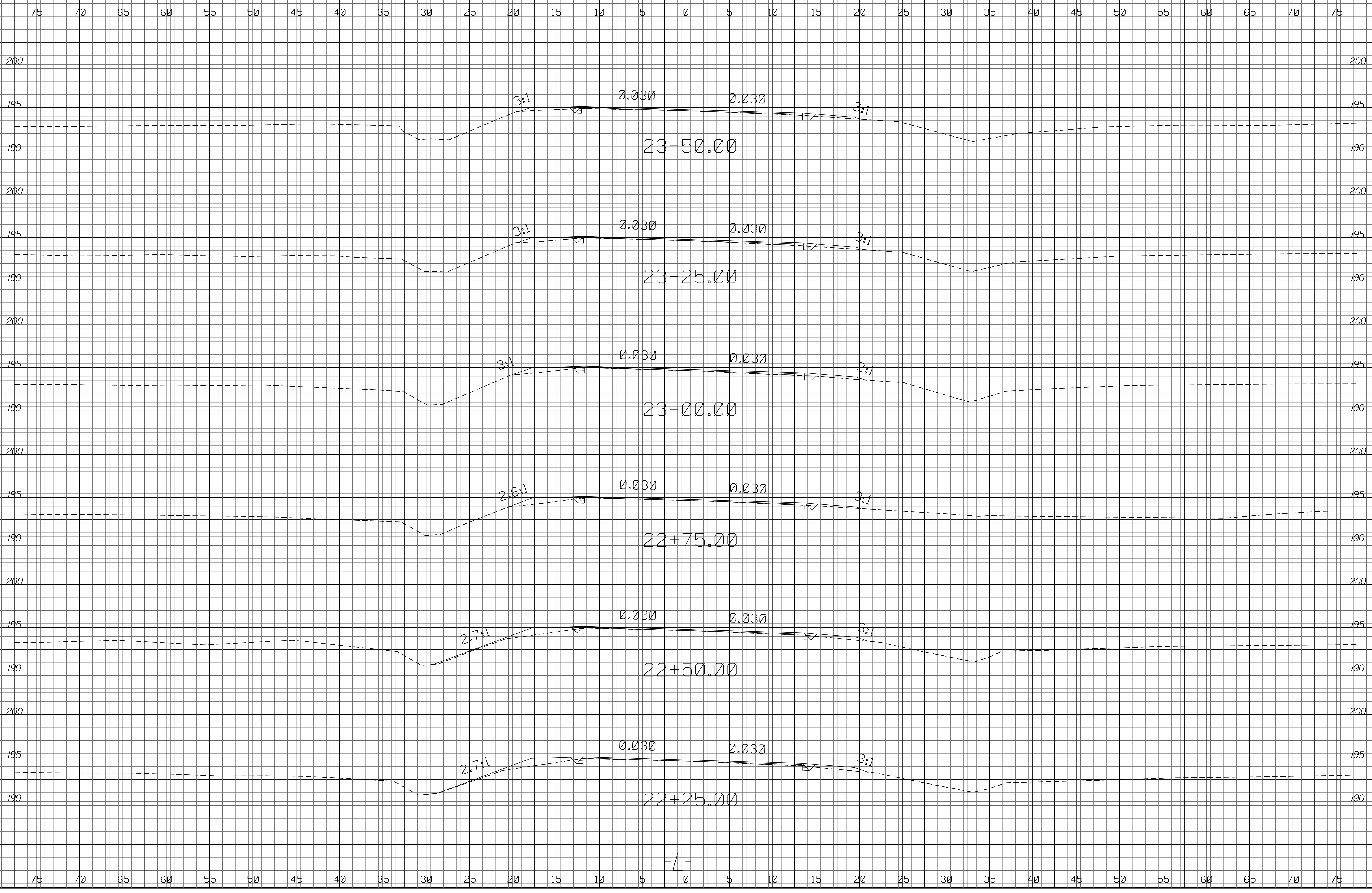


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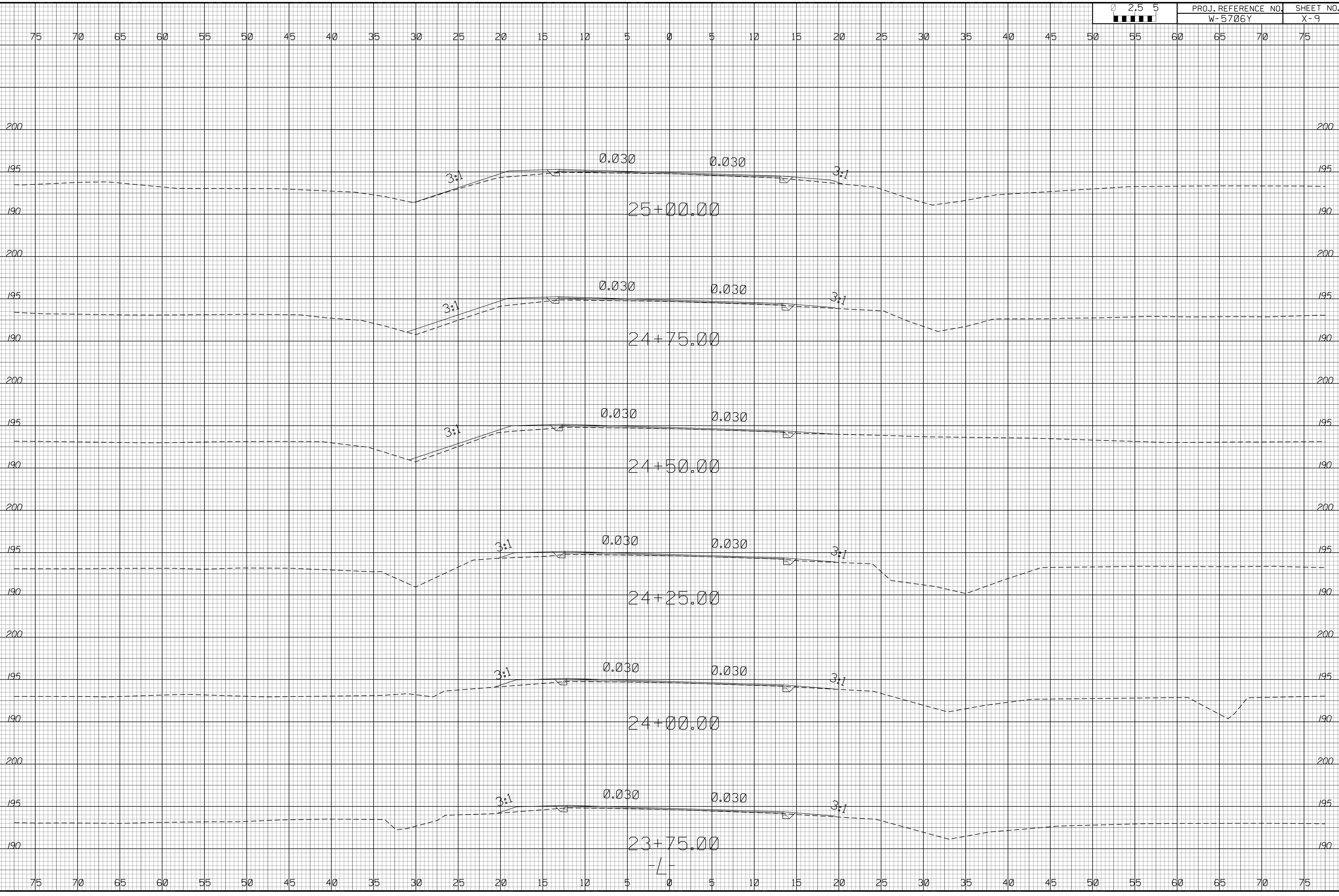
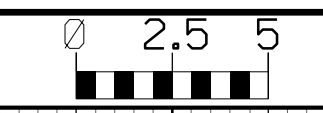


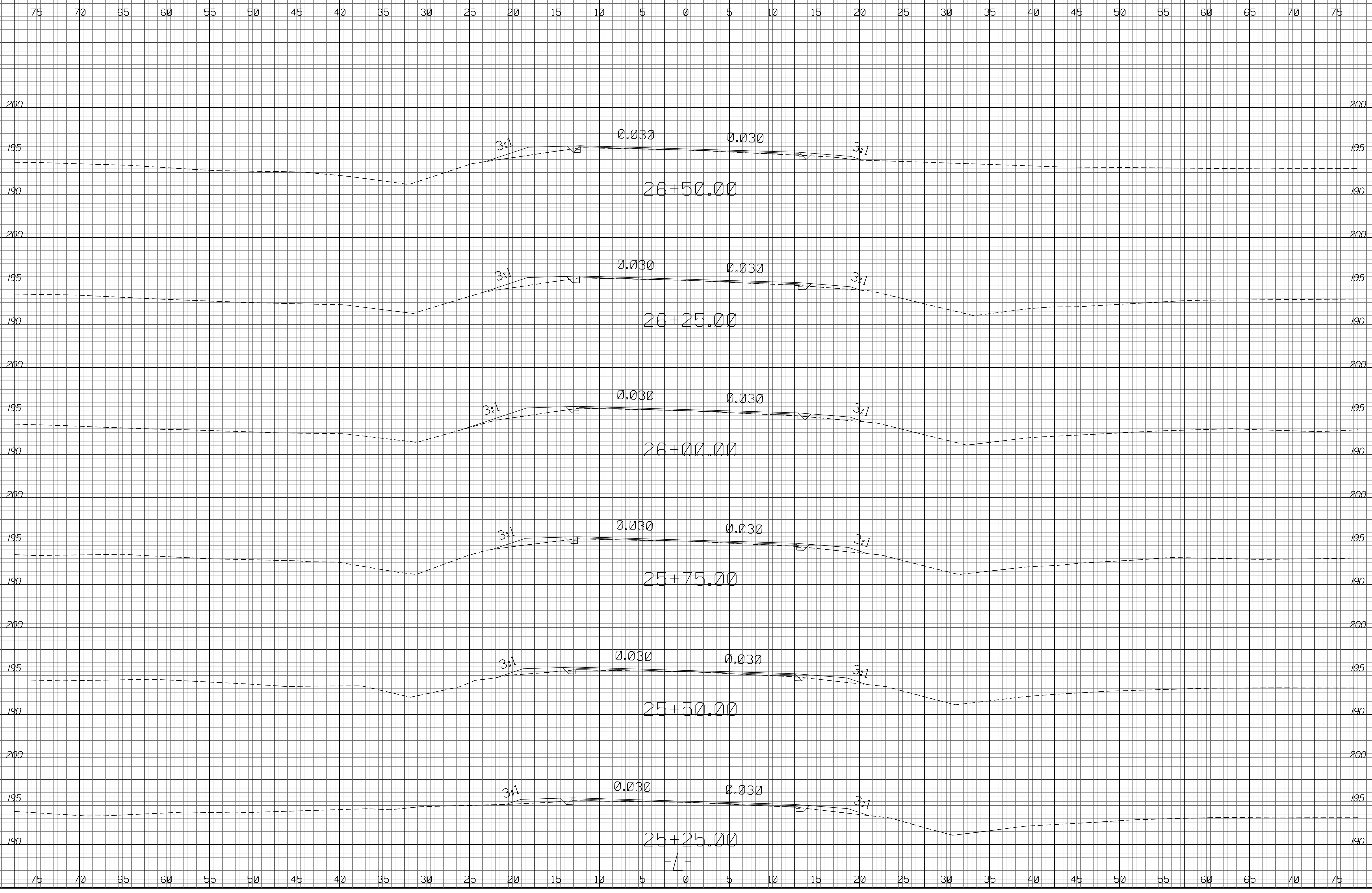
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W-5706Y

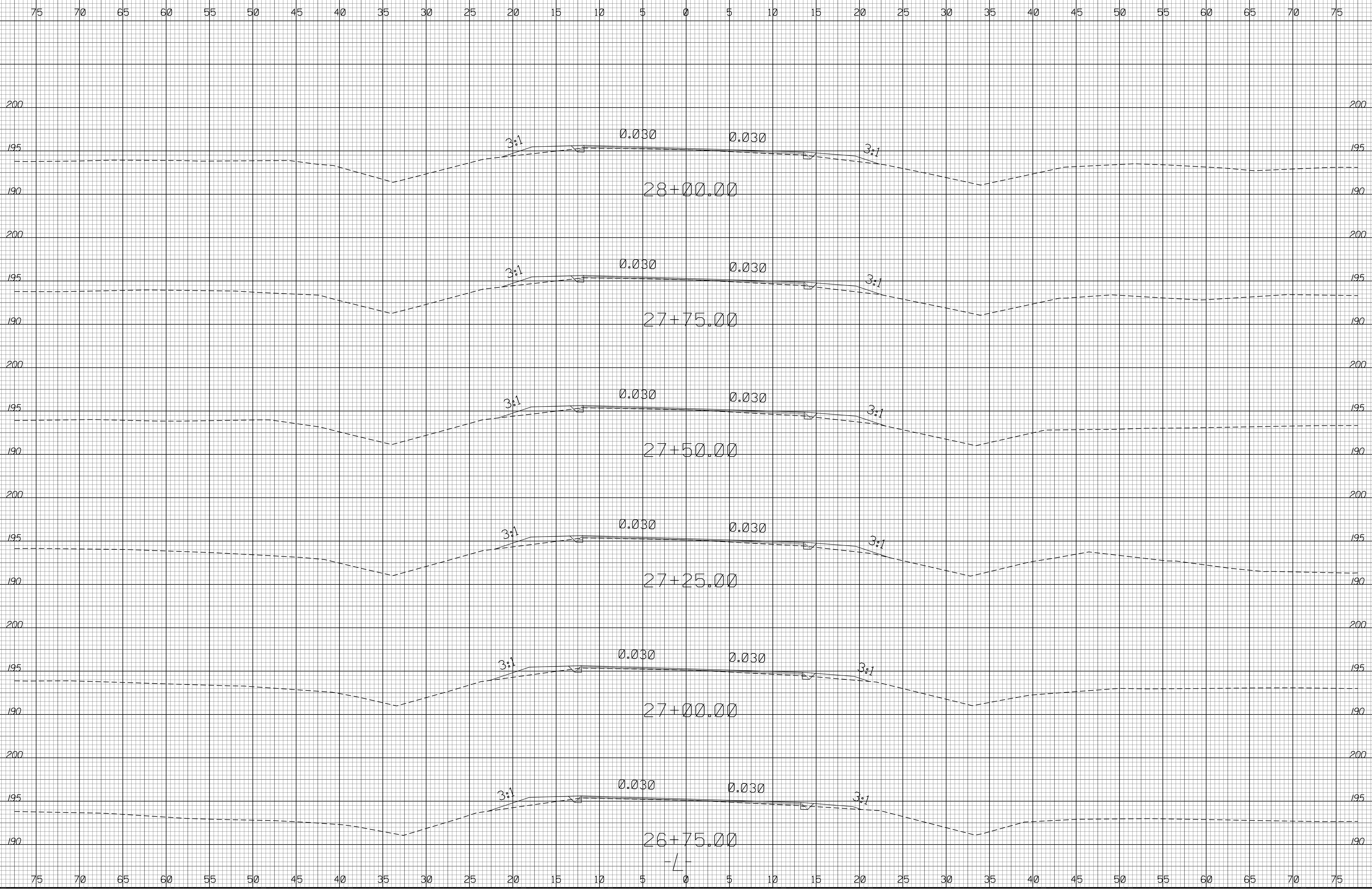
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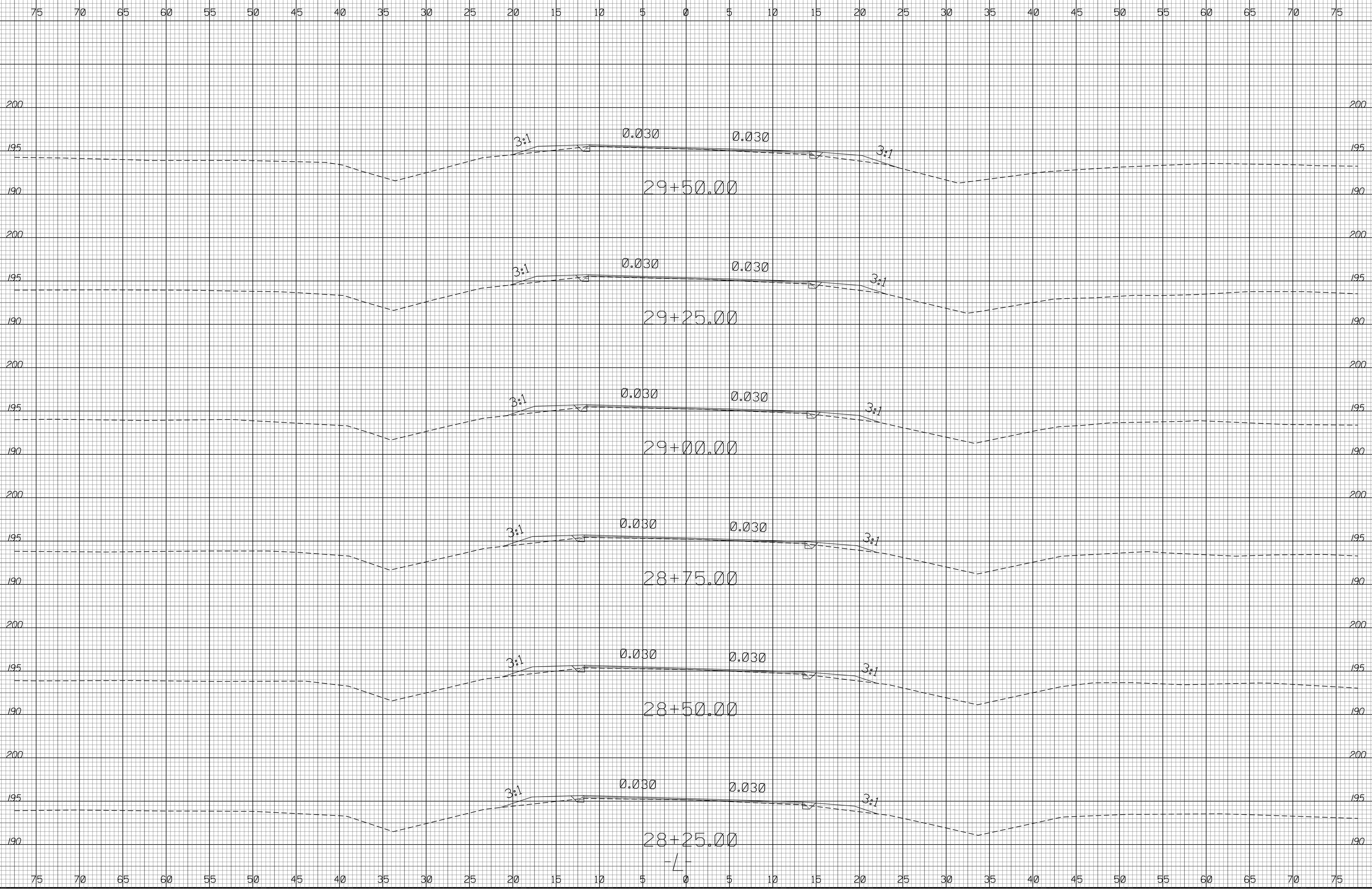


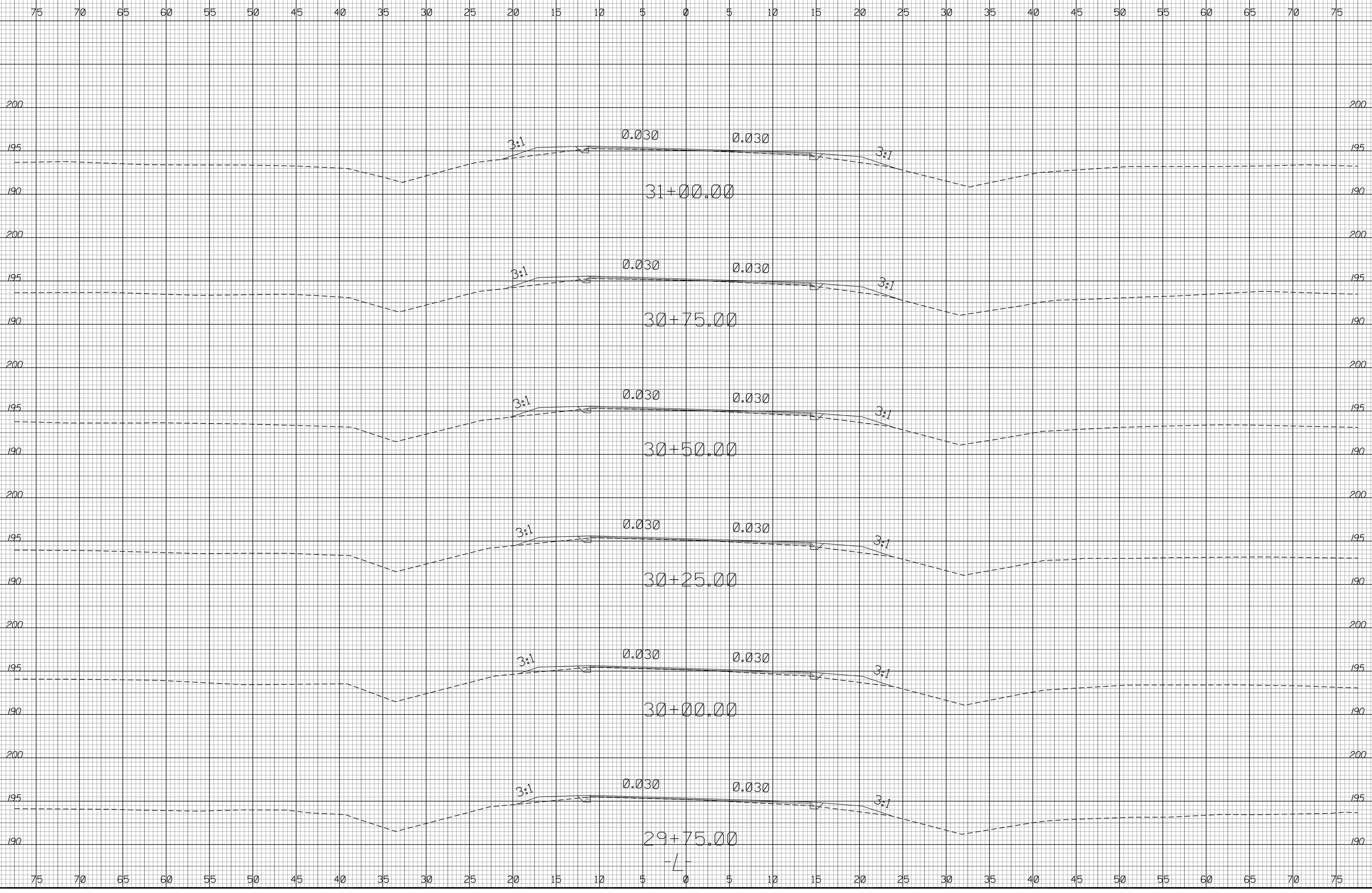
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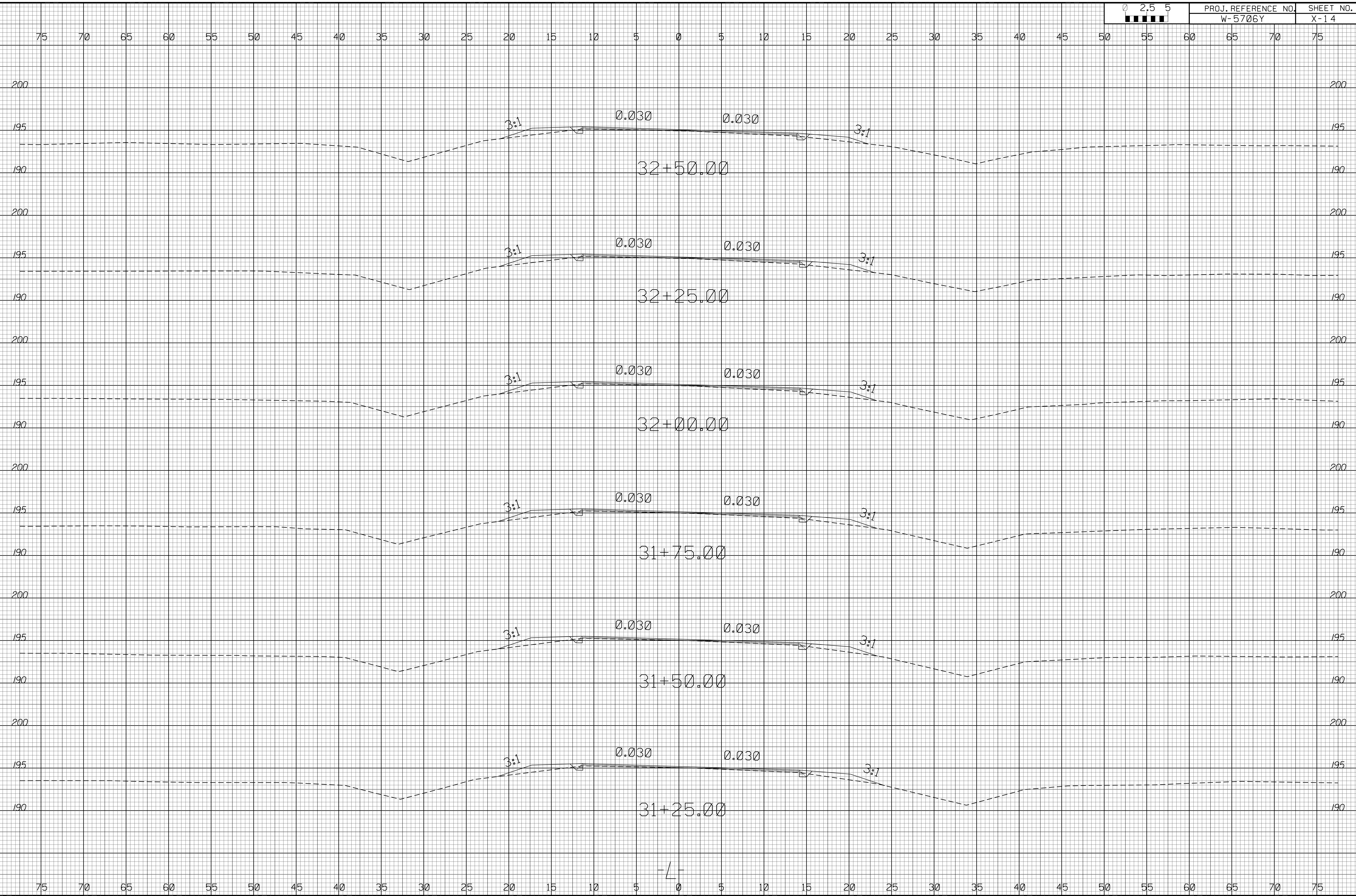


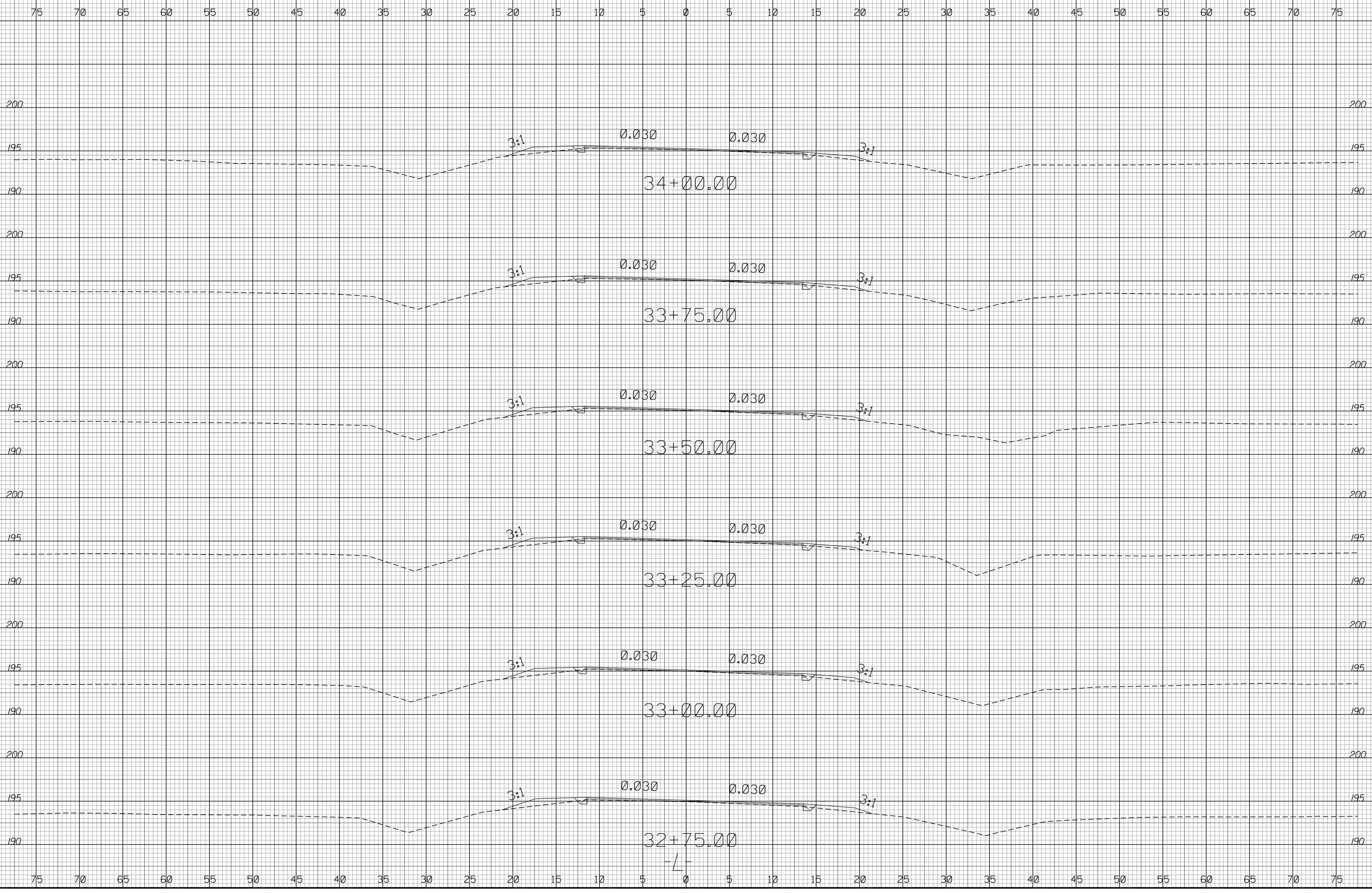




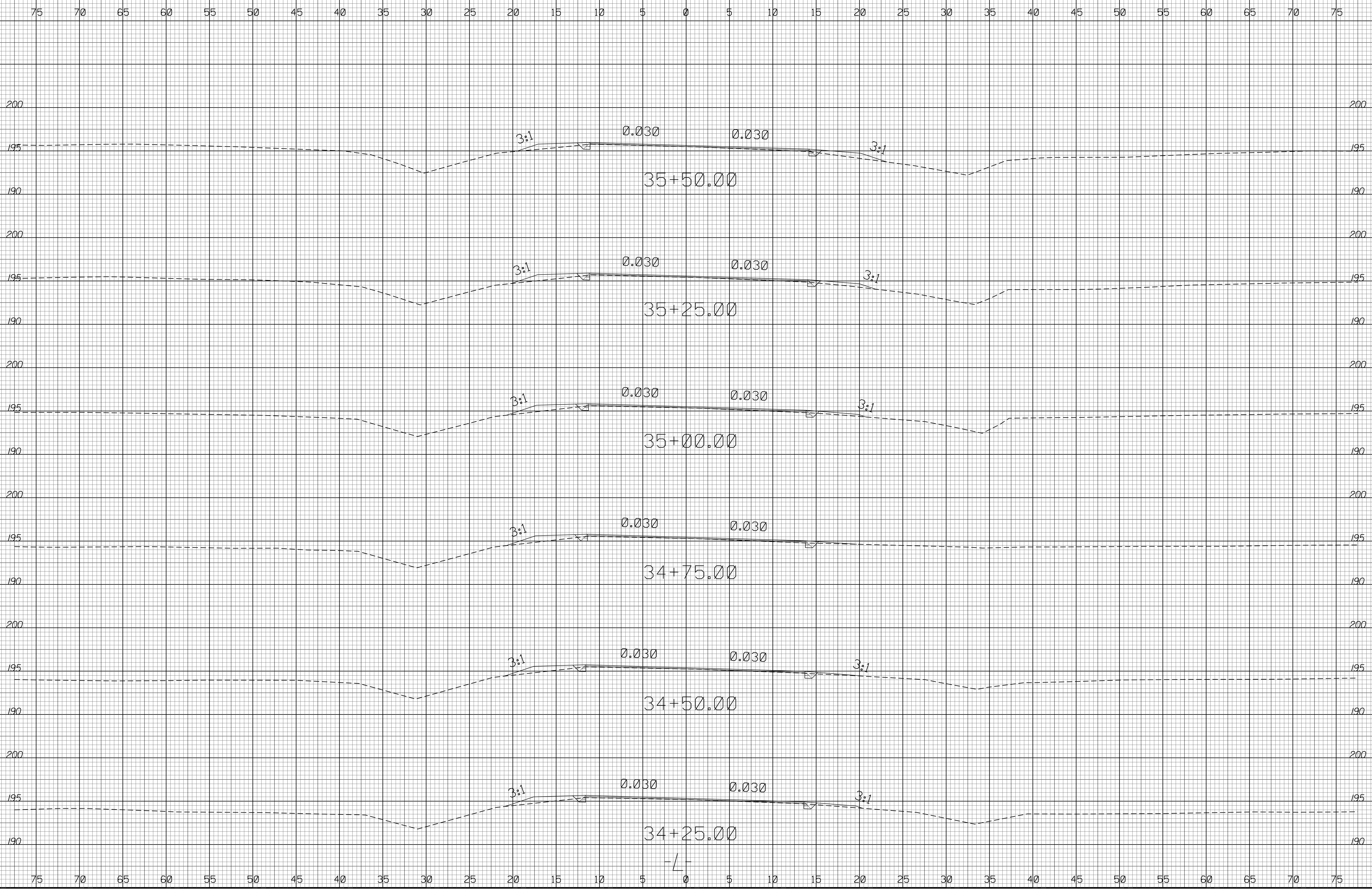


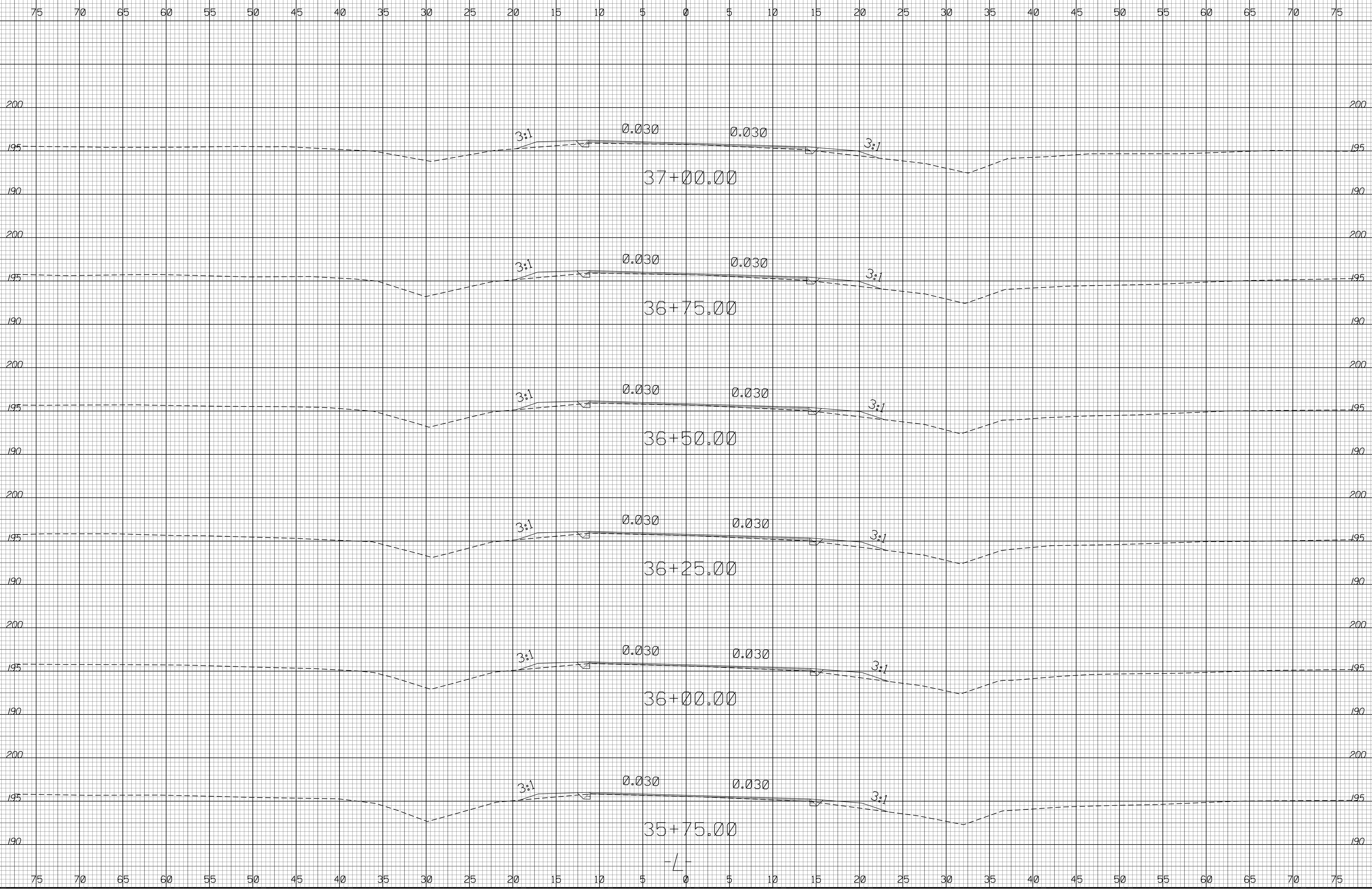


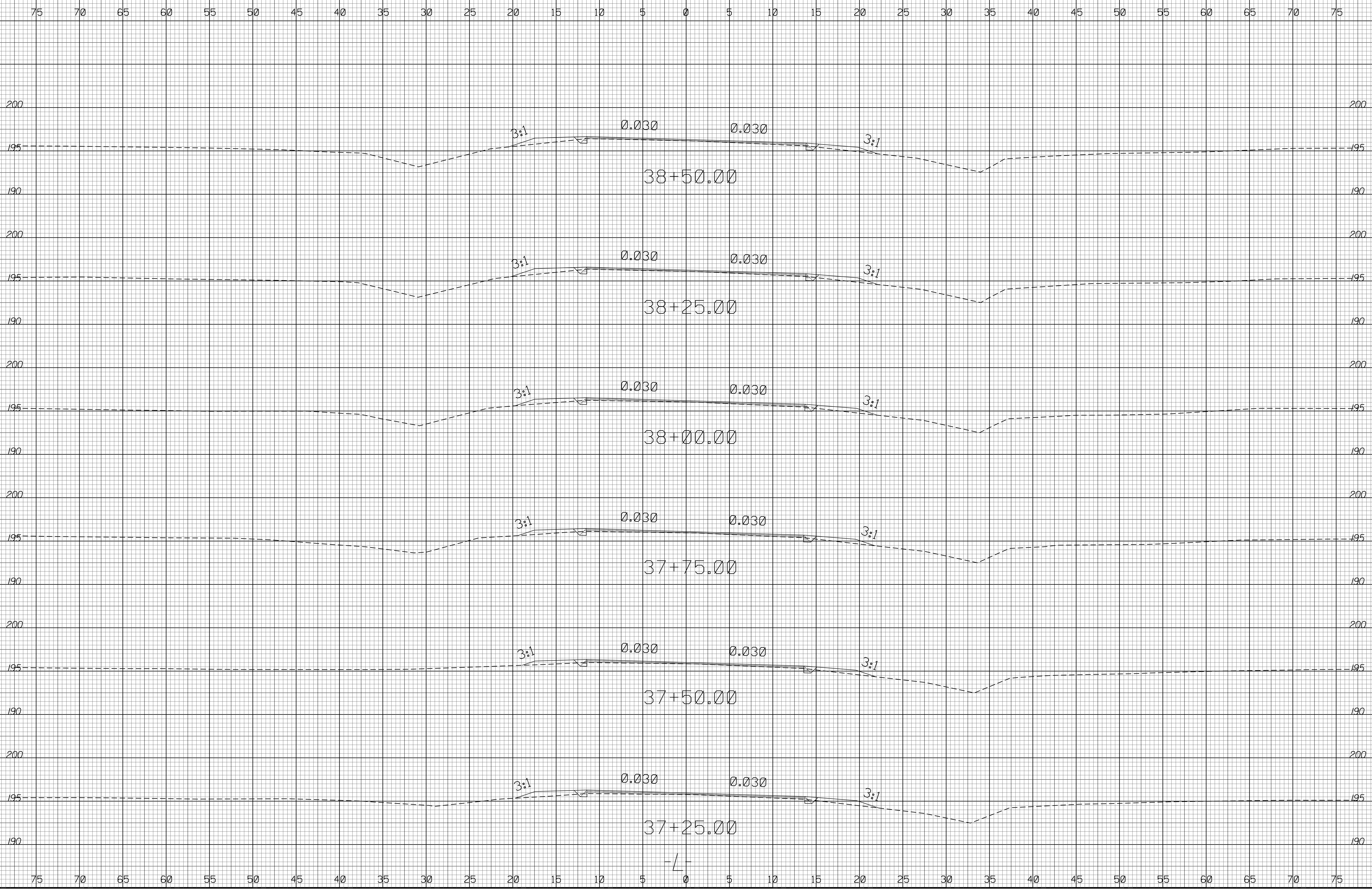


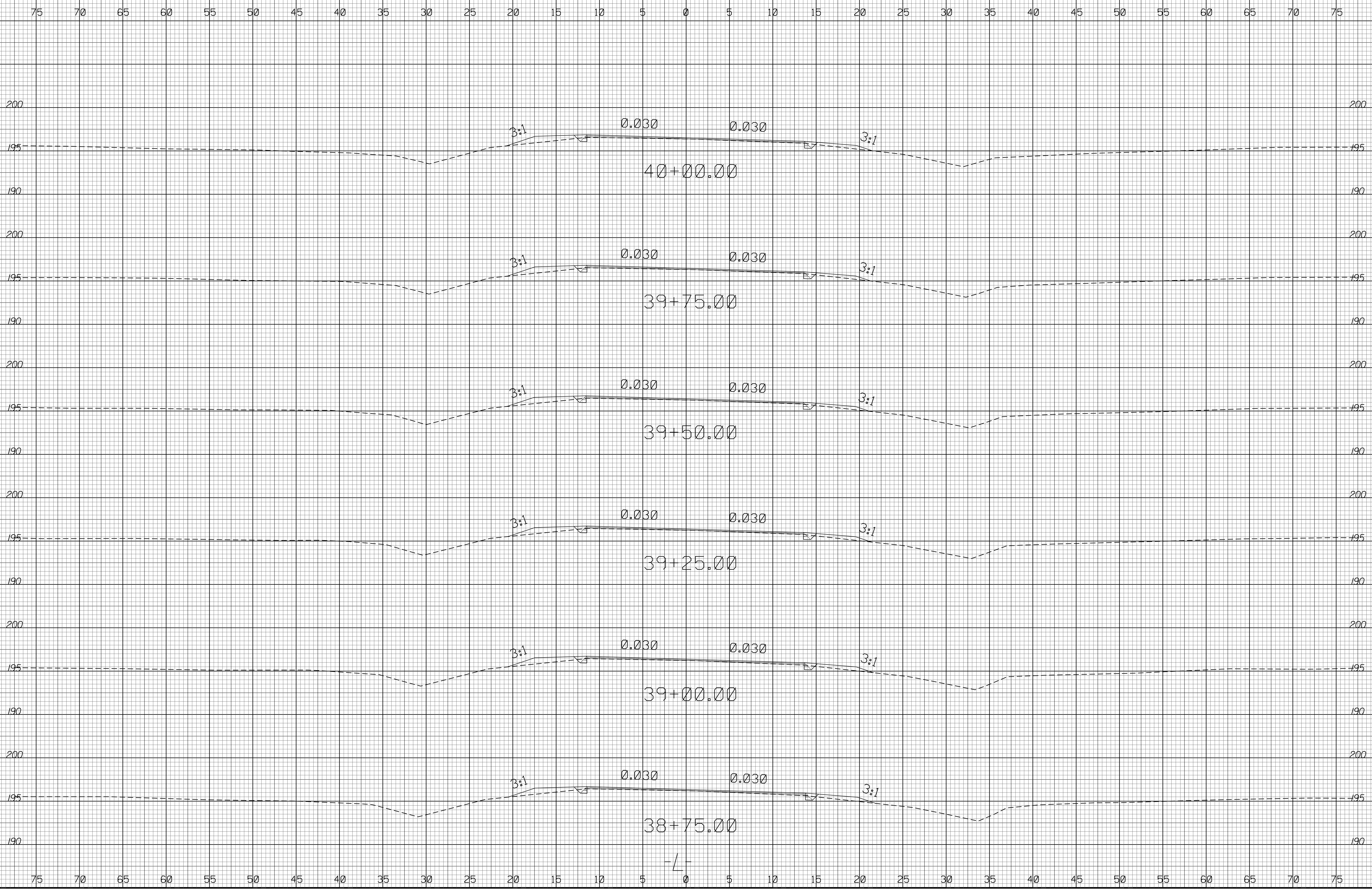


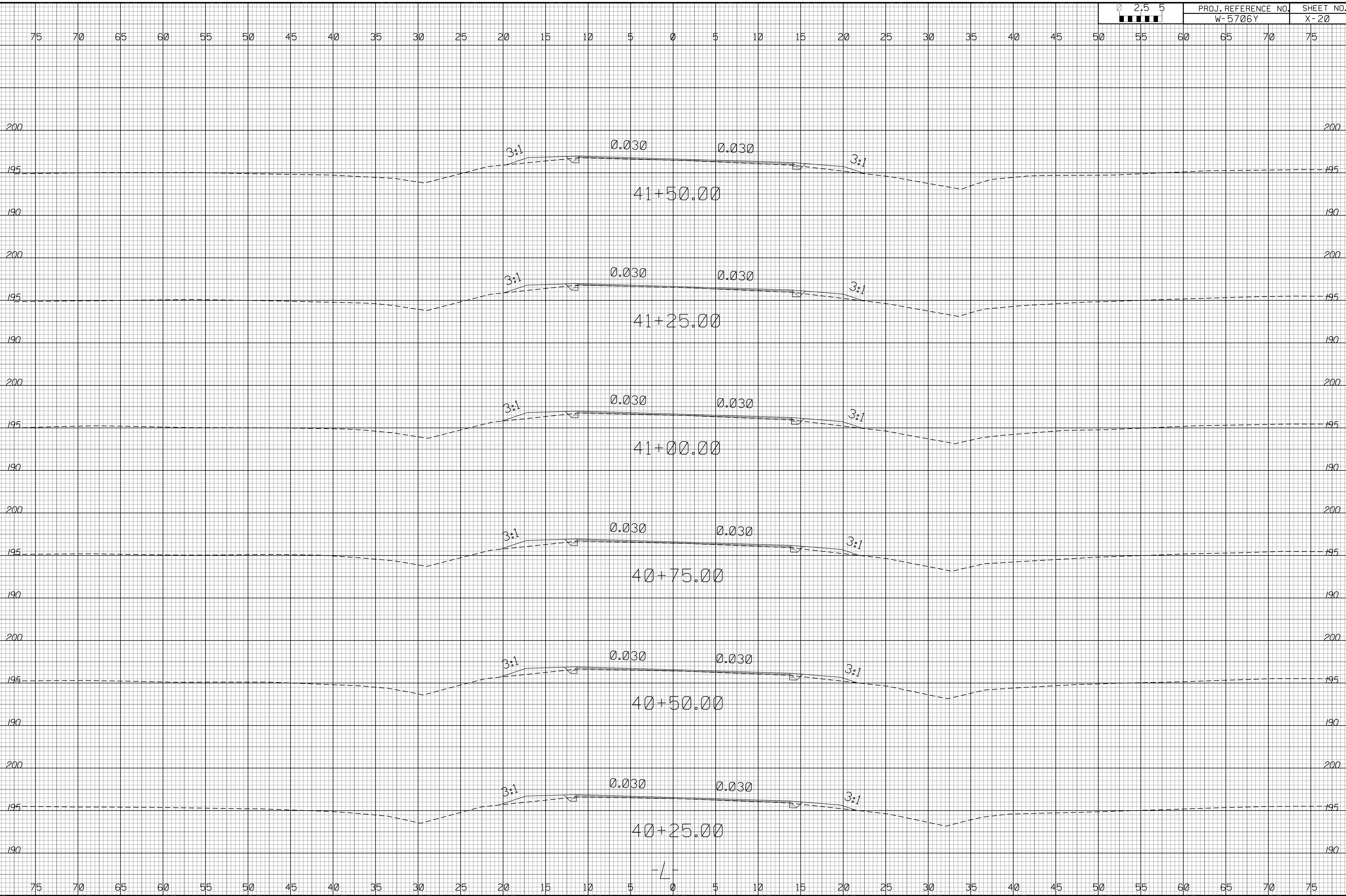
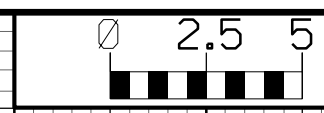












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