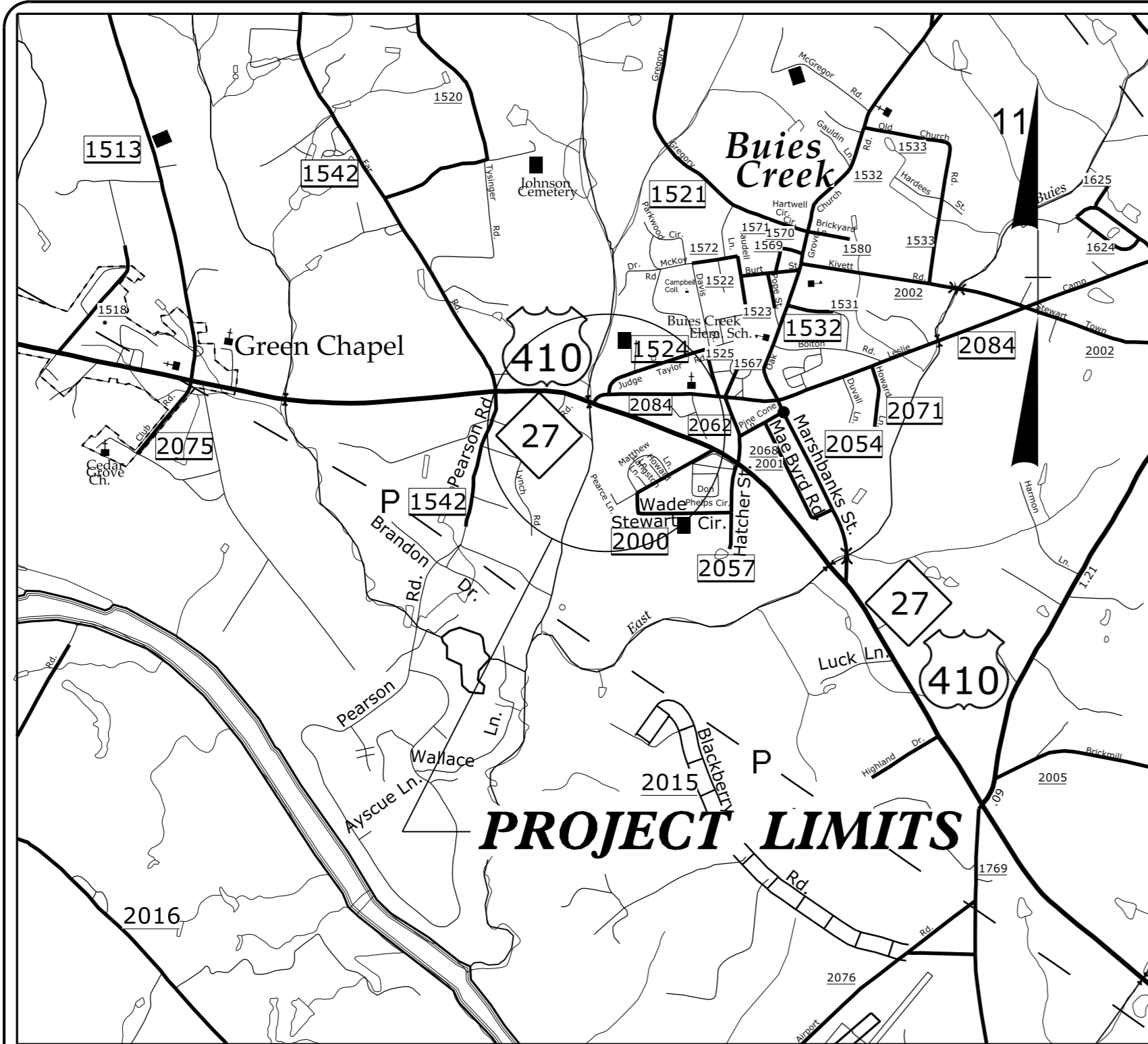


17-AUG-2021 10:40
 S:\DDC\Projects\EB-6014_CampbellUniv_Multi-use_Path\Roadway\proj\6_Proposed_Sidewalk\EB-6014_Rdy_tsh.dgn
 \$\$\$USERNAME\$\$\$

TIP PROJECT: EB-6014

CONTRACT: DF00287



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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HARNETT COUNTY

**LOCATION: US 421/NC 27 FROM SR 1542 (PEARSON ROAD)
TO SR 2000 (WADE STEWART CIRCLE)**

TYPE OF WORK: GRADING, GUARDRAIL AND SIDEWALK

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-6014	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48683.1.1		PE	
48683.2.1	TAP-0624004	ROW/UTIL	
48683.3.1	TAP-0624004	CONST.	

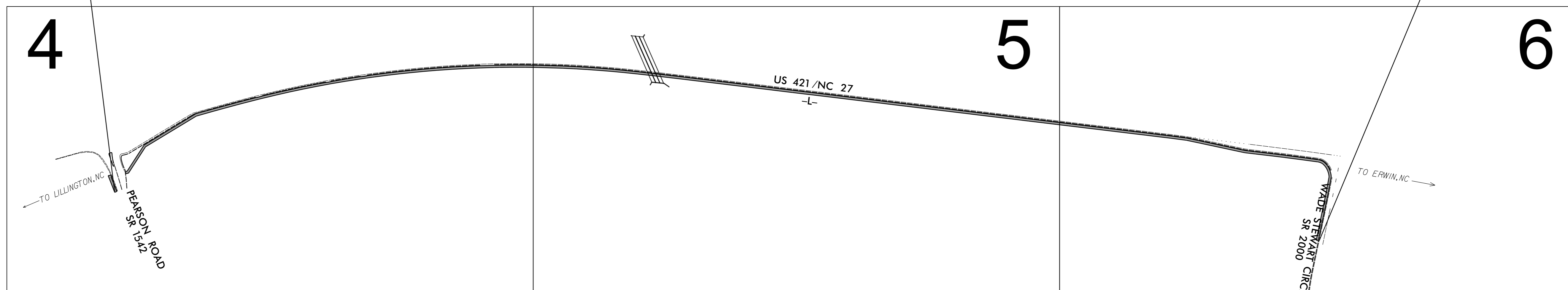


BEGIN STATE PROJECT EB-6014

-L- STA 10+00.00

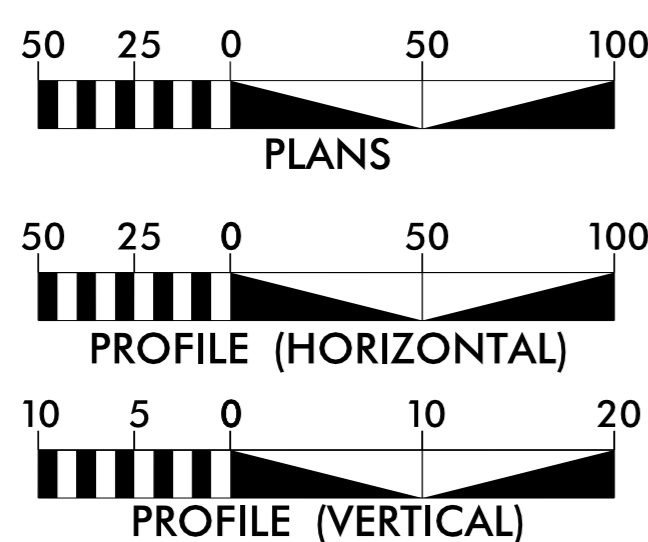
END STATE PROJECT EB-6014

-L- STA 45+88.01



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

GRAPHIC SCALES



DESIGN DATA

ADT 2018 = 21,000
V = 55 MPH

PROJECT LENGTH

PROJECT LENGTH: 0.679 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS

431 Transportation Dr., Fayetteville, NC 28301

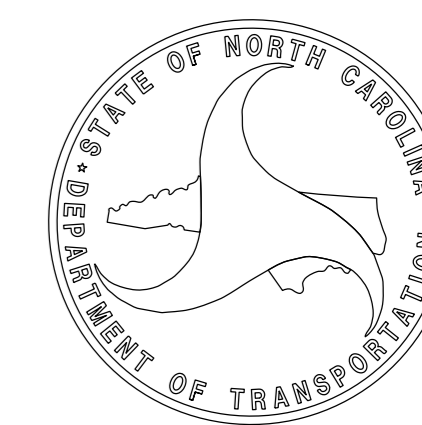
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 21, 2021

LETTING DATE:
SEPTEMBER 15, 2021

JOHN GAUTHIER
PROJECT ENGINEER

NEIL BUTLER
PROJECT DESIGN ENGINEER



STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Computed Property Corner	→
Property Monument	EDM
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	MLB
Proposed Wetland Boundary	MLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☒ - S - ☒ - S -
Potential Contamination Area: Soil	☒ - S - ☒ - S -
Known Contamination Area: Water	☒ - W - ☒ - W -
Potential Contamination Area: Water	☒ - W - ☒ - 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	CSX TRANSPORTATION MILEPOST 35
Switch	SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	~~~~~
Woods Line	~~~~~
Orchard	☼ ☼ ☼ ☼
Vineyard	Vineyard

EXISTING STRUCTURES:

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

UTILITIES:

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 LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	A/G Water

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

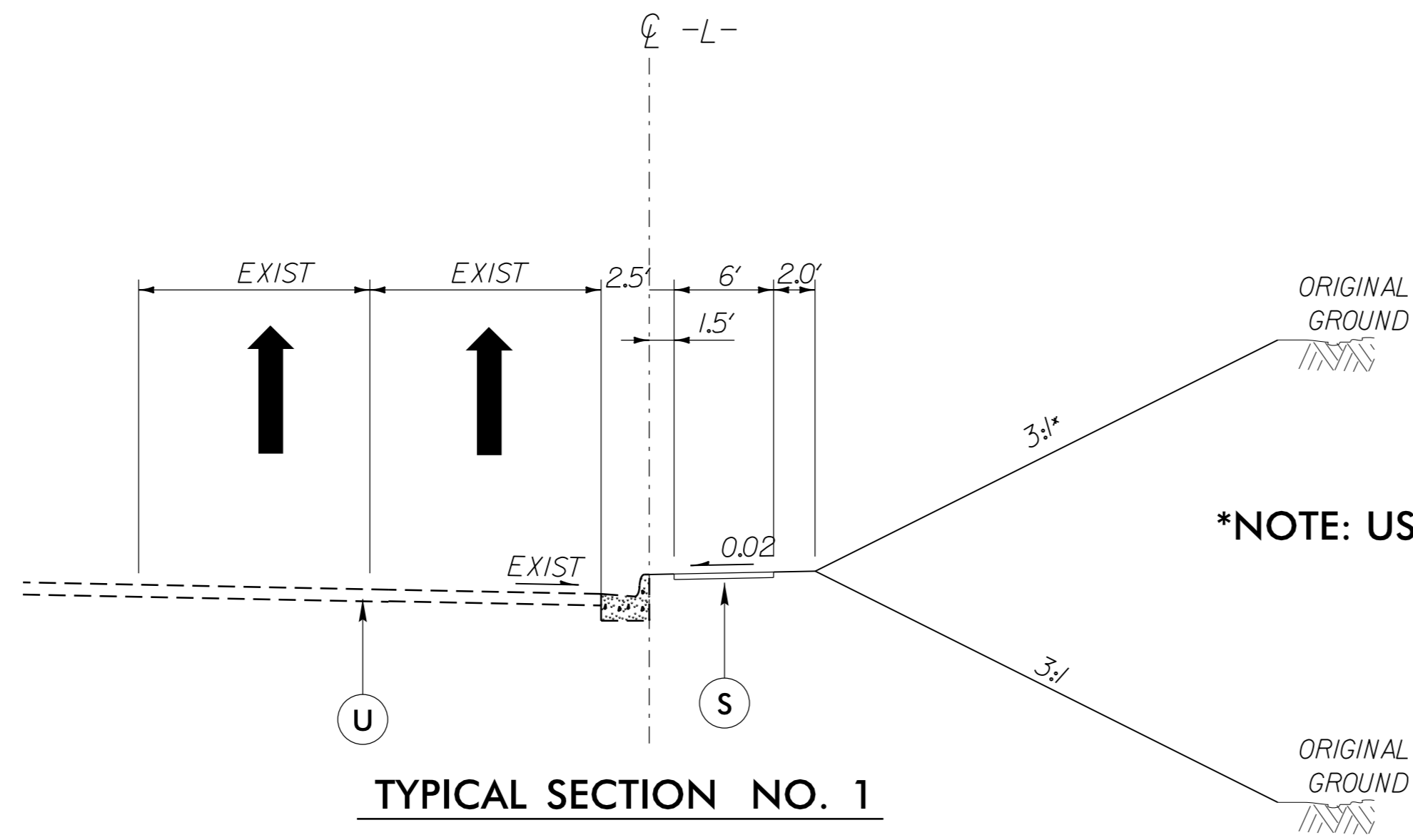
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

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

FINAL PAVEMENT SCHEDULE	
S	4" CONCRETE SIDEWALK
U	EXISTING PAVEMENT

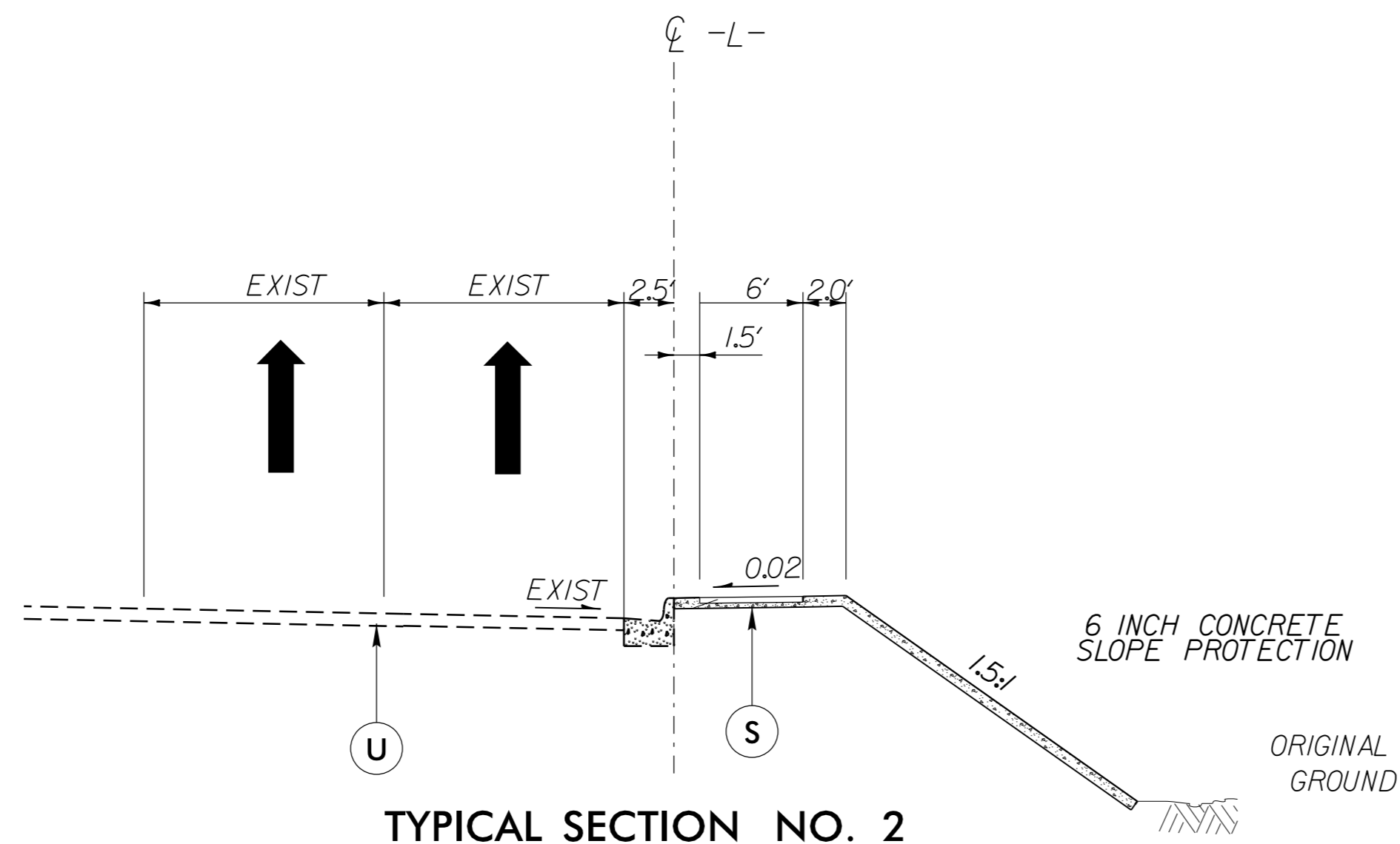
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



*NOTE: USE 4:1 SLOPES FROM STA 10+90.00 - 13+00.00

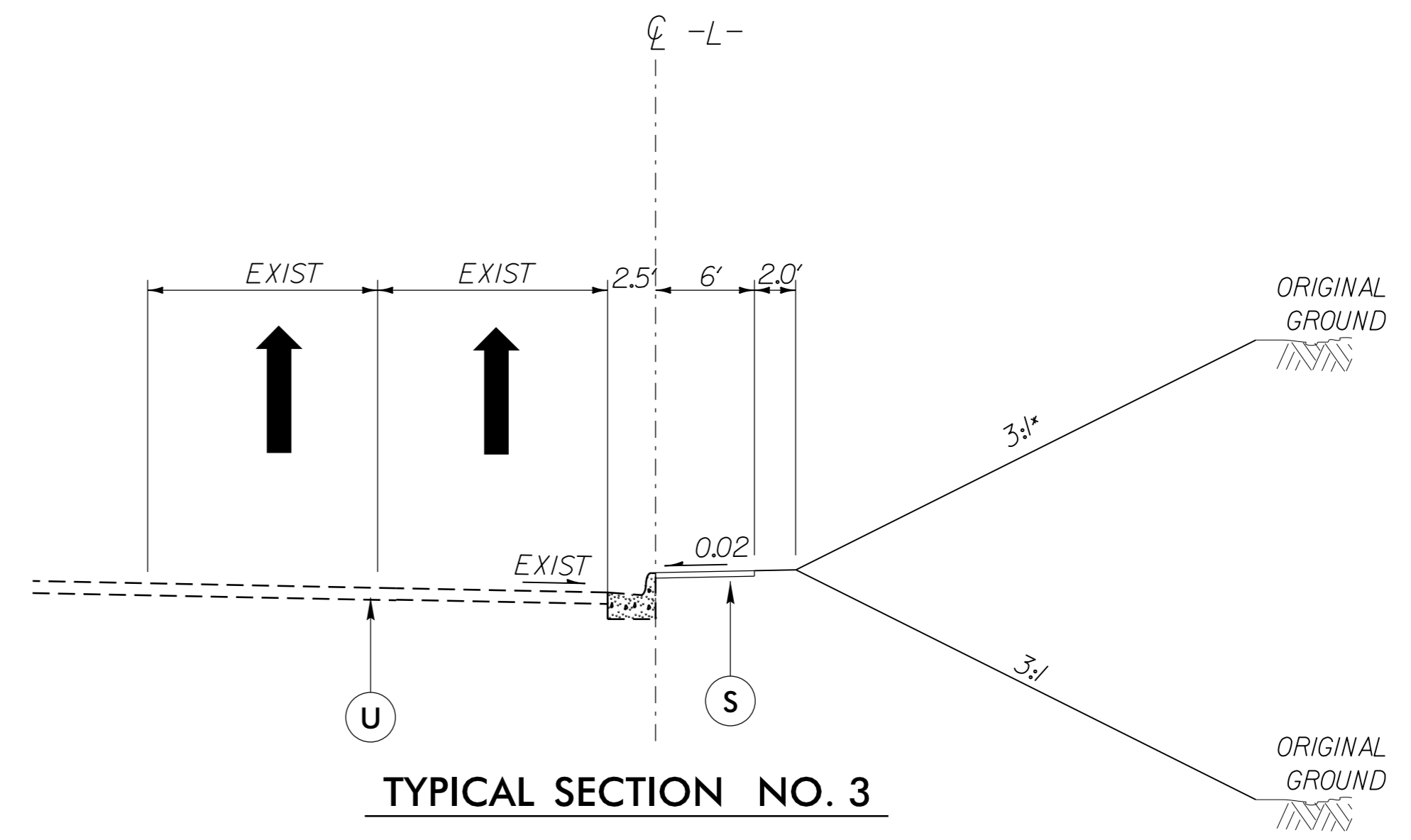
TYPICAL SECTION NO. 1

-L- STA. 10+00 TO STA. 25+50
-L- STA. 26+10 TO STA. 43+15



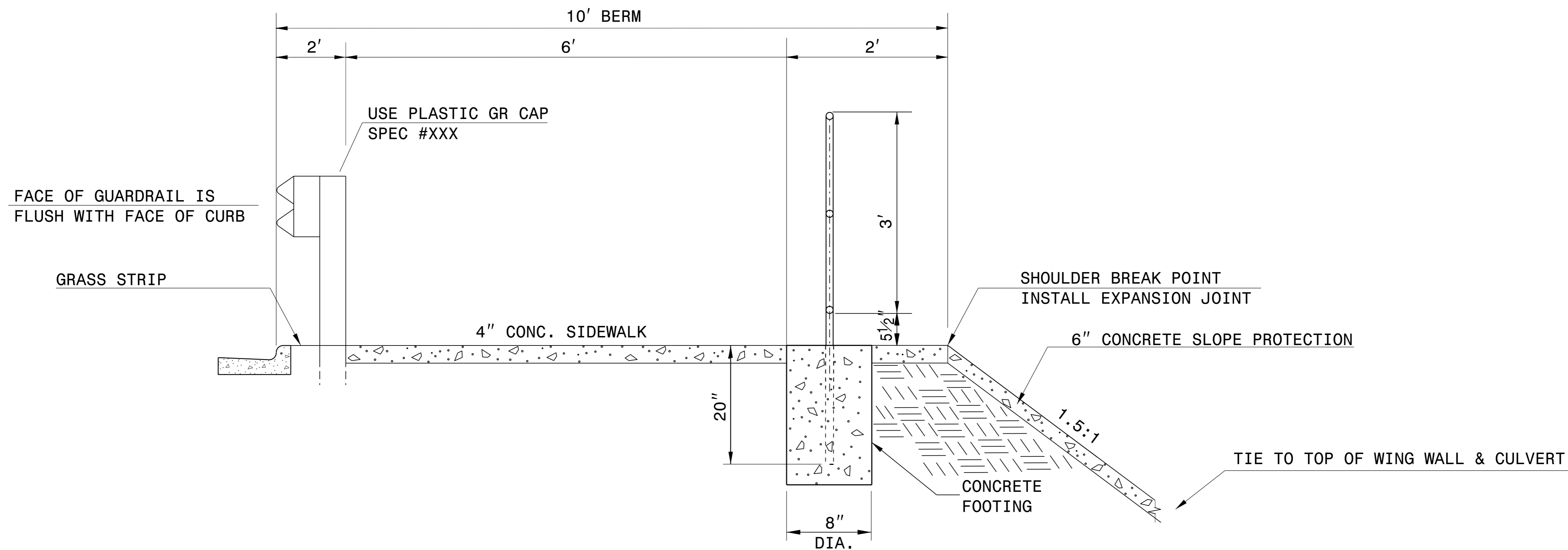
TYPICAL SECTION NO. 2

-L- STA. 25+50 TO STA. 26+10

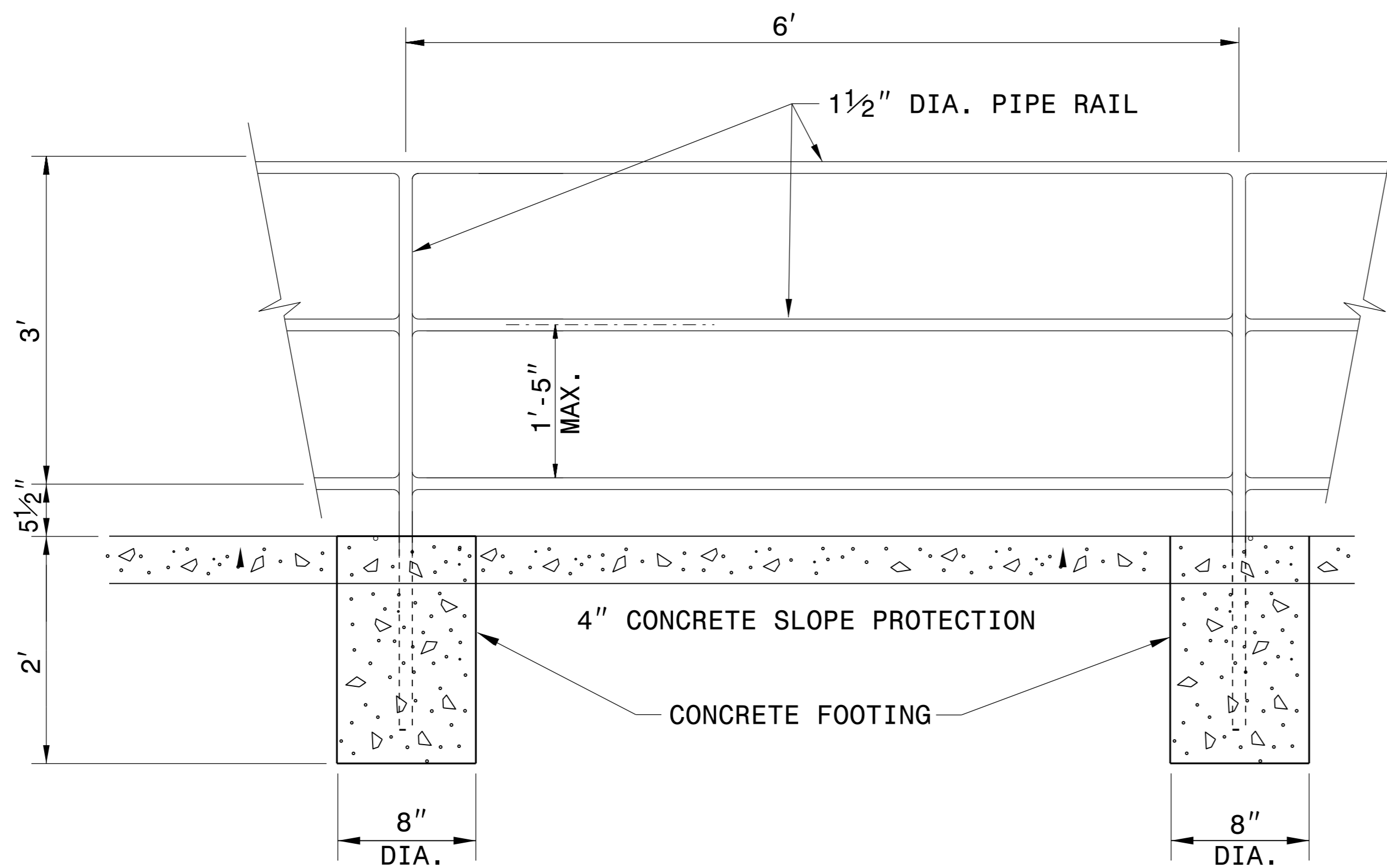


TYPICAL SECTION NO. 3

-L- STA. 43+15 TO STA. 45+88.01



SECTION VIEW



ELEVATION OF PROPOSED PEDESTRIAN HANDRAIL

NOTES:

CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.

REPAIR GALVANIZING IN ACCORDANCE WITH SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.

PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.

WELD IN ACCORDANCE WITH ARTICLE 1072-20 OF THE STANDARD SPECIFICATIONS.

USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.

PLACEMENT OF HANDRAIL IN RELATION TO SHOULDER BREAK POINT MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.

**PROPOSED PEDESTRIAN
SAFETY RAIL**

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

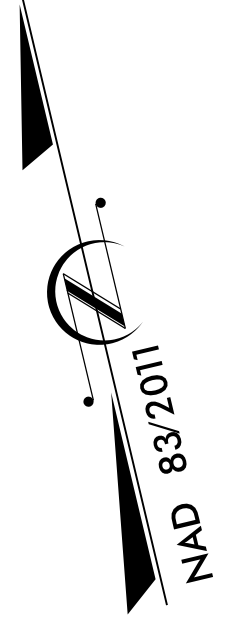
SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
10+00 to 45+50	1189		5466	4277	
PROJECT TOTAL	1189		5466	4277	
EST. 5% FOR REPL TOPSOIL ON BRW PIT				214	
GRAND TOTAL	1189		5466	4490	
SAY	1300			5000	

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS		REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350	CAT-1		
-L-	25+50	26+25	RT	75			25+75	26+00	1'	6'	50'	6.25'			1	1	116'	



BM-1
 N 603,349.00
 E 2,074,845.00
 ELEV 159.79
 STA 20+57.44
 103.62' LT -L-

BL-2
 N 603,357.3902
 E 2,074,527.2150
 ELEV 171.75
 STA 17+50.57
 71.55' LT -L-

BL-1
 N 603,343.5801
 E 2,073,642.2235
 ELEV 190.90
 STA 10+46.73
 263.81' LT -L-

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

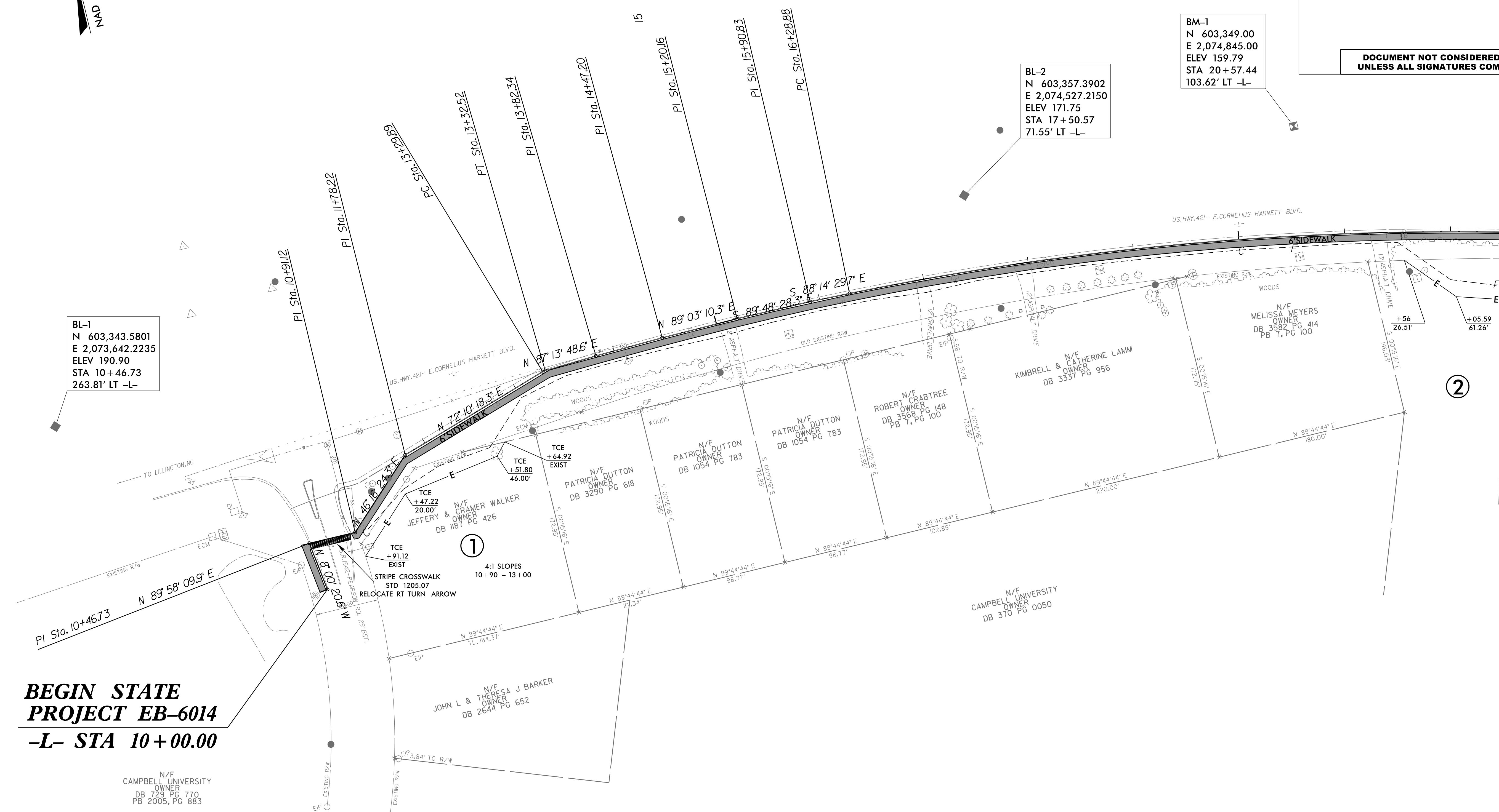
REVISIONS

8/17/99
 C:\AUG-2001\022
 3388\SUBSTR\MAIN\EB-6014
 Campbell Univ. Multi-use Path/Roadway\proj\6\Proposed Sidewalk\EB-6014_Rdy_dsn_SW_psh4.dgn

**BEGIN STATE
 PROJECT EB-6014
 -L- STA 10+00.00**

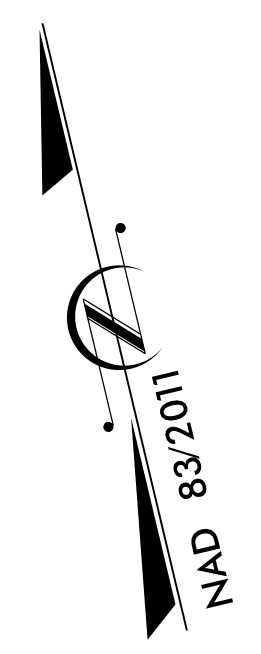
N/F
 CAMPBELL UNIVERSITY
 OWNER
 DB 729 PG 770
 PB 2005, PG 883

CURVE L1	CURVE L2
PI Sta 13+31.21	PI Sta 20+66.95
$\Delta = 15^{\circ}03'30.2"$ (RT)	$\Delta = 17^{\circ}32'25.7"$ (RT)
D = 572'57"28J"	D = 2'01"04J"
L = 2.63'	L = 869.28'
T = 1.32'	T = 438.07'
R = 10.00'	R = 2,839.50'



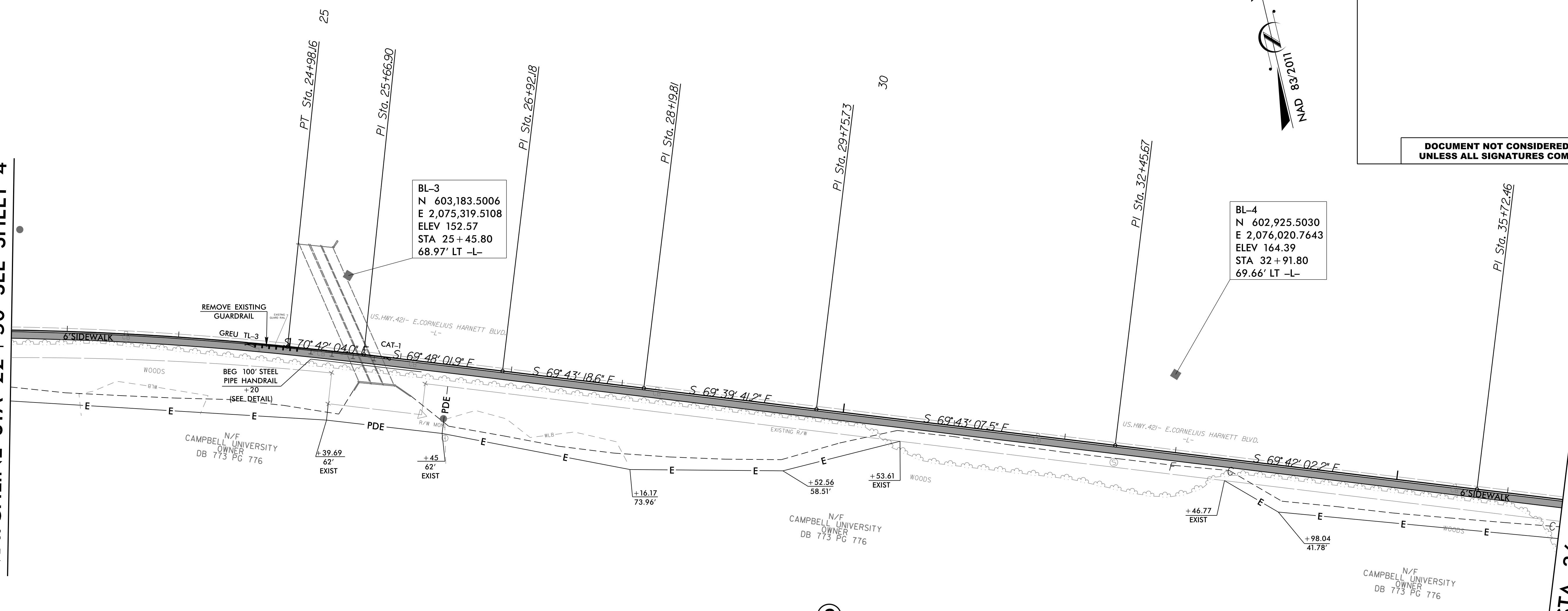
MATCHLINE STA 22 + 50 SEE SHEET 5

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCHLINE STA 22 + 50 SEE SHEET 4

MATCHLINE STA 36 + 50 SEE SHEET 6



BL-3
N 603,183.5006
E 2,075,319.5108
ELEV 152.57
STA 25 + 45.80
68.97' LT -L-

BL-4
N 602,925.5030
E 2,076,020.7643
ELEV 164.39
STA 32 + 91.80
69.66' LT -L-

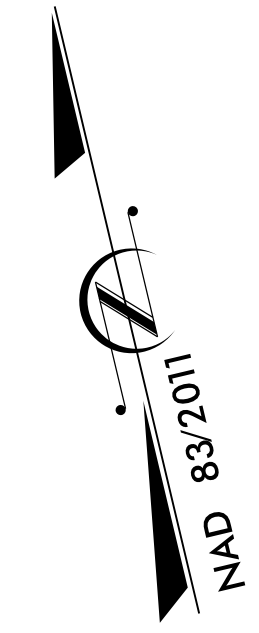
CULVERT #1
THREE BARRELS 8' H x 9' W

	NORTH	EAST	ELEV.
CUL1	603222.60	2075282.88	132.24
CUL2	603219.47	2075291.40	132.36
CUL3	603218.99	2075292.63	132.38
CUL4	603216.00	2075301.45	132.03
CUL5	603215.34	2075302.43	132.42
CUL6	603212.38	2075311.64	132.56
CE1	603217.30	2075298.70	140.10
HW1	603221.99	2075280.58	142.28
CUL7	603087.27	2075306.94	131.60
CUL8	603084.08	2075316.48	131.61
CUL9	603083.67	2075317.29	131.57
CUL10	603080.64	2075326.91	131.64
CUL11	603080.19	2075327.60	131.53
CUL12	603076.96	2075336.85	131.44
CE2	603082.16	2075322.94	139.56
HW2	603078.33	2075337.97	141.38

REVISIONS

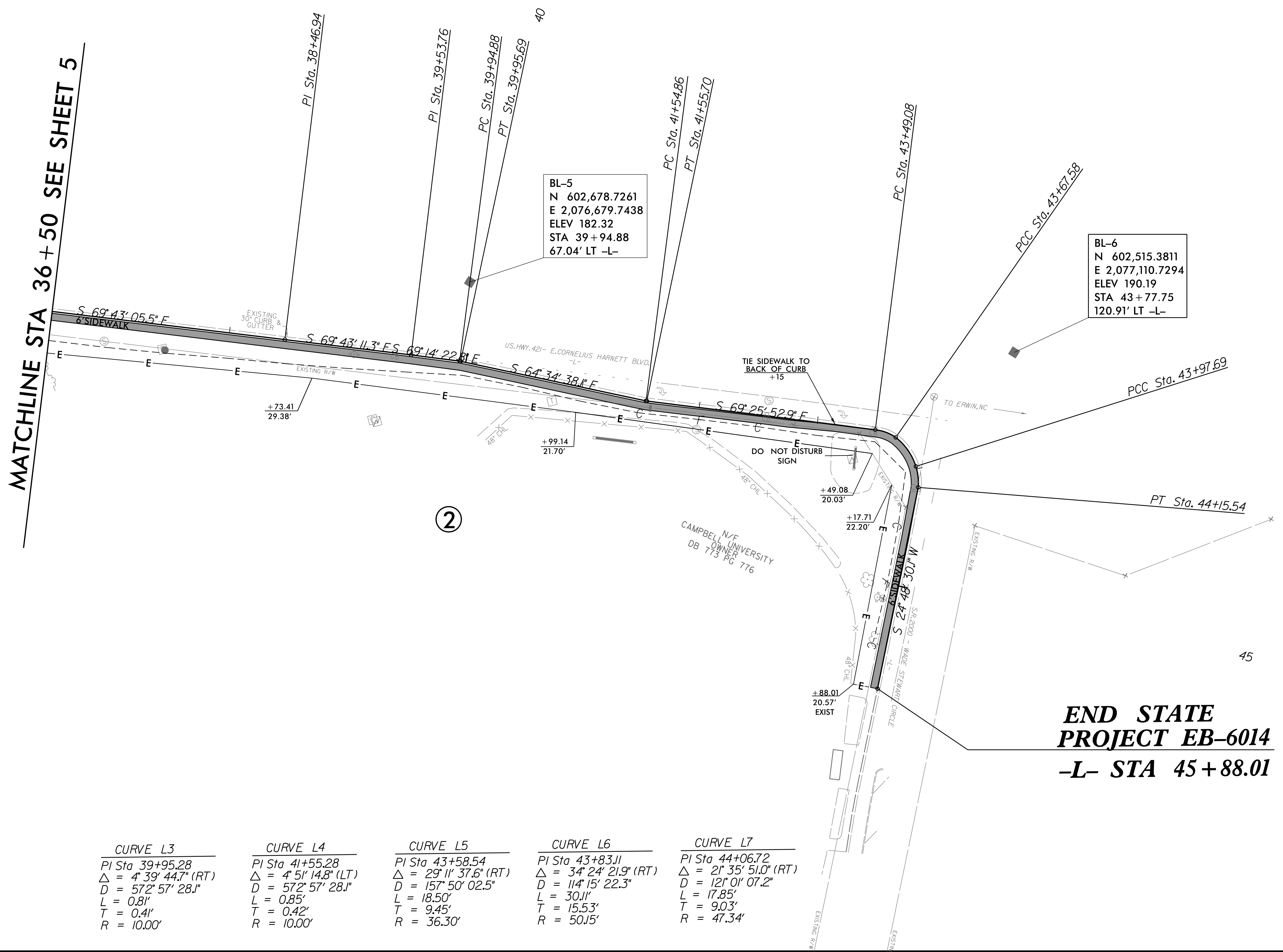
7-AUG-2021 10:26
 C:\Users\jgibson\OneDrive\Documents\Projects\Roadway\proj\6\Proposed_Sidewalk\EB-6014_Rdy_dsn_SW_psh5.dgn
 8/17/99

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



REVISIONS
 8/17/99
 C:\AUG-2021\0330 3385\SUBSET\DRAWING\EB-6014_Campbell Univ. Multi-use Path\Roadway\proj\6 Proposed Sidewalk\EB-6014_Rdy_dsn_SW_psh6.dgn

MATCHLINE STA 36 + 50 SEE SHEET 5

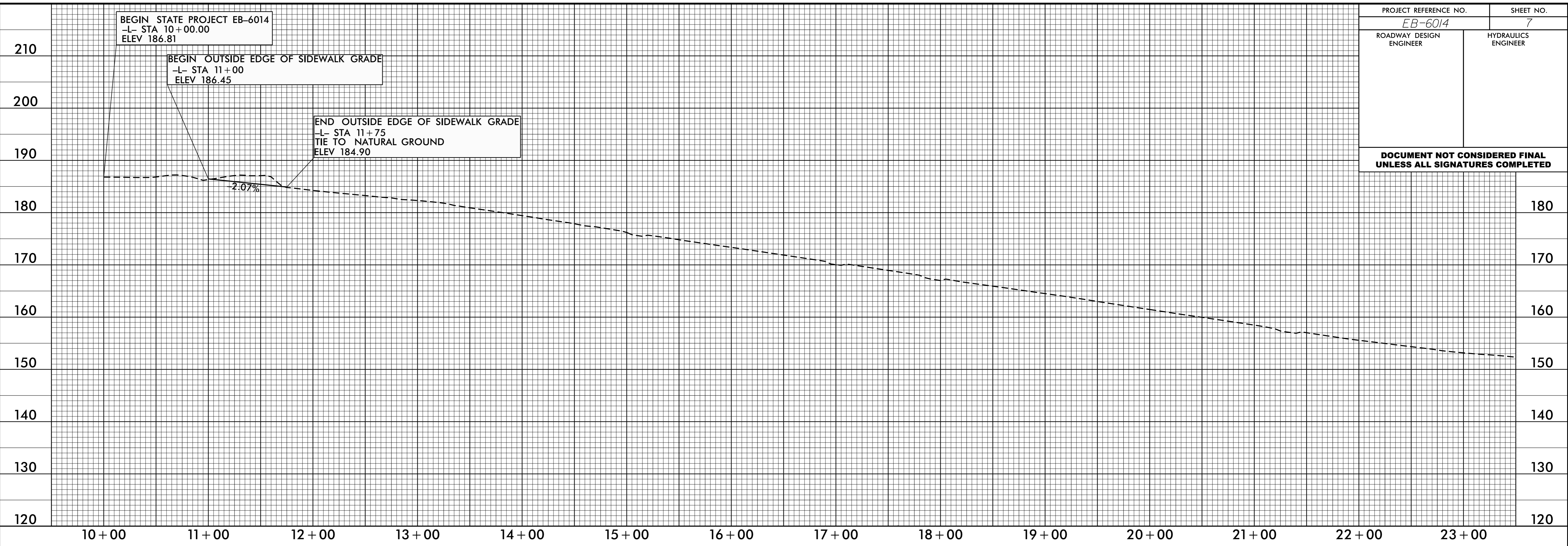


CURVE L3	CURVE L4	CURVE L5	CURVE L6	CURVE L7
PI Sta 39+95.28	PI Sta 41+55.28	PI Sta 43+58.54	PI Sta 43+83.11	PI Sta 44+06.72
$\Delta = 4^{\circ} 39' 44.7''$ (RT)	$\Delta = 4^{\circ} 51' 14.8''$ (LT)	$\Delta = 29^{\circ} 11' 37.6''$ (RT)	$\Delta = 34^{\circ} 24' 21.9''$ (RT)	$\Delta = 21^{\circ} 35' 51.0''$ (RT)
D = 572' 57" 28.1"	D = 572' 57" 28.1"	D = 157' 50" 02.5"	D = 114' 15" 22.3"	D = 121' 01" 07.2"
L = 0.81'	L = 0.85'	L = 18.50'	L = 30.11'	L = 17.85'
T = 0.41'	T = 0.42'	T = 9.45'	T = 15.53'	T = 9.03'
R = 10.00'	R = 10.00'	R = 36.30'	R = 50.15'	R = 47.34'

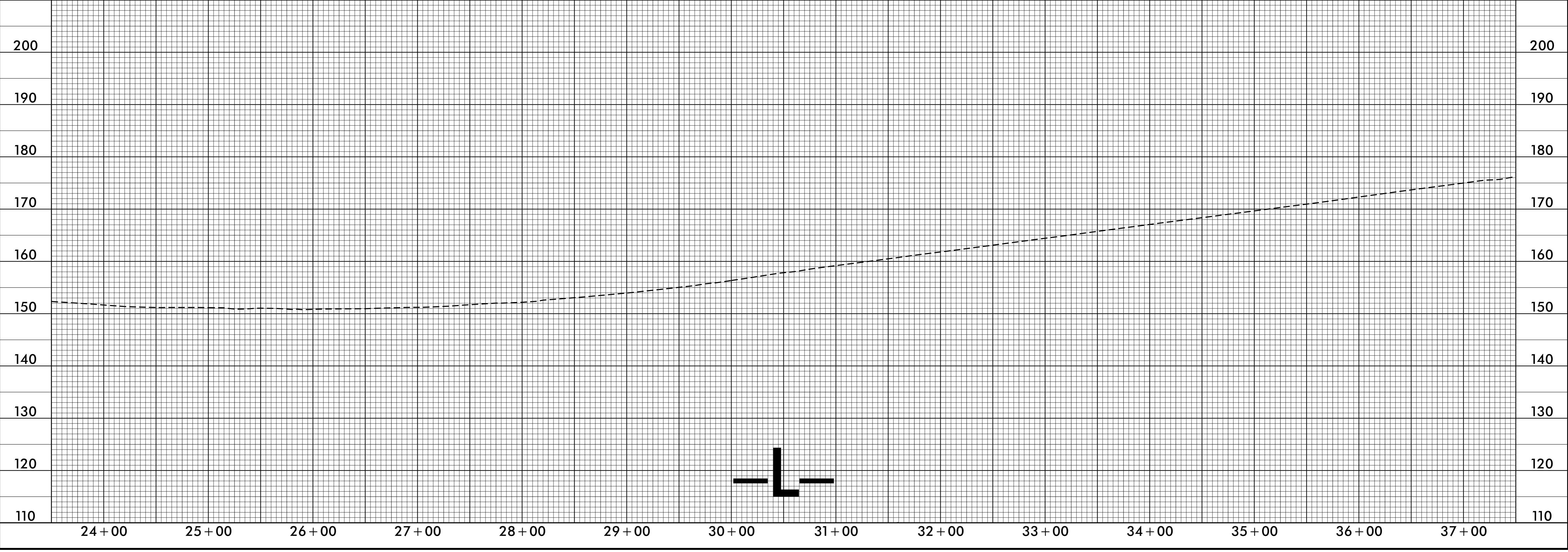
**END STATE
PROJECT EB-6014
-L- STA 45 + 88.01**

5/28/99

PROJECT REFERENCE NO. <i>EB-6014</i>	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I:\AUG-2001\0303 33431\STR\WME-885 I:\AUG-2001\0303 33431\STR\WME-885\Projects\EB-6014_Campbell Univ. Multi-use Path\Roadway\proj\6\Proposed Sidewalk\EB-6014_pf11.dgn



5/28/99

PROJECT REFERENCE NO. SHEET NO.

EB-6014 8

ROADWAY DESIGN ENGINEER

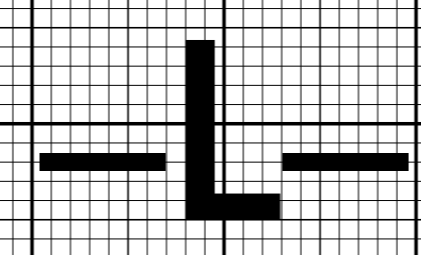
HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

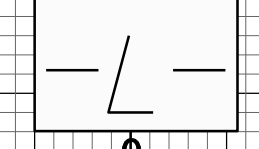
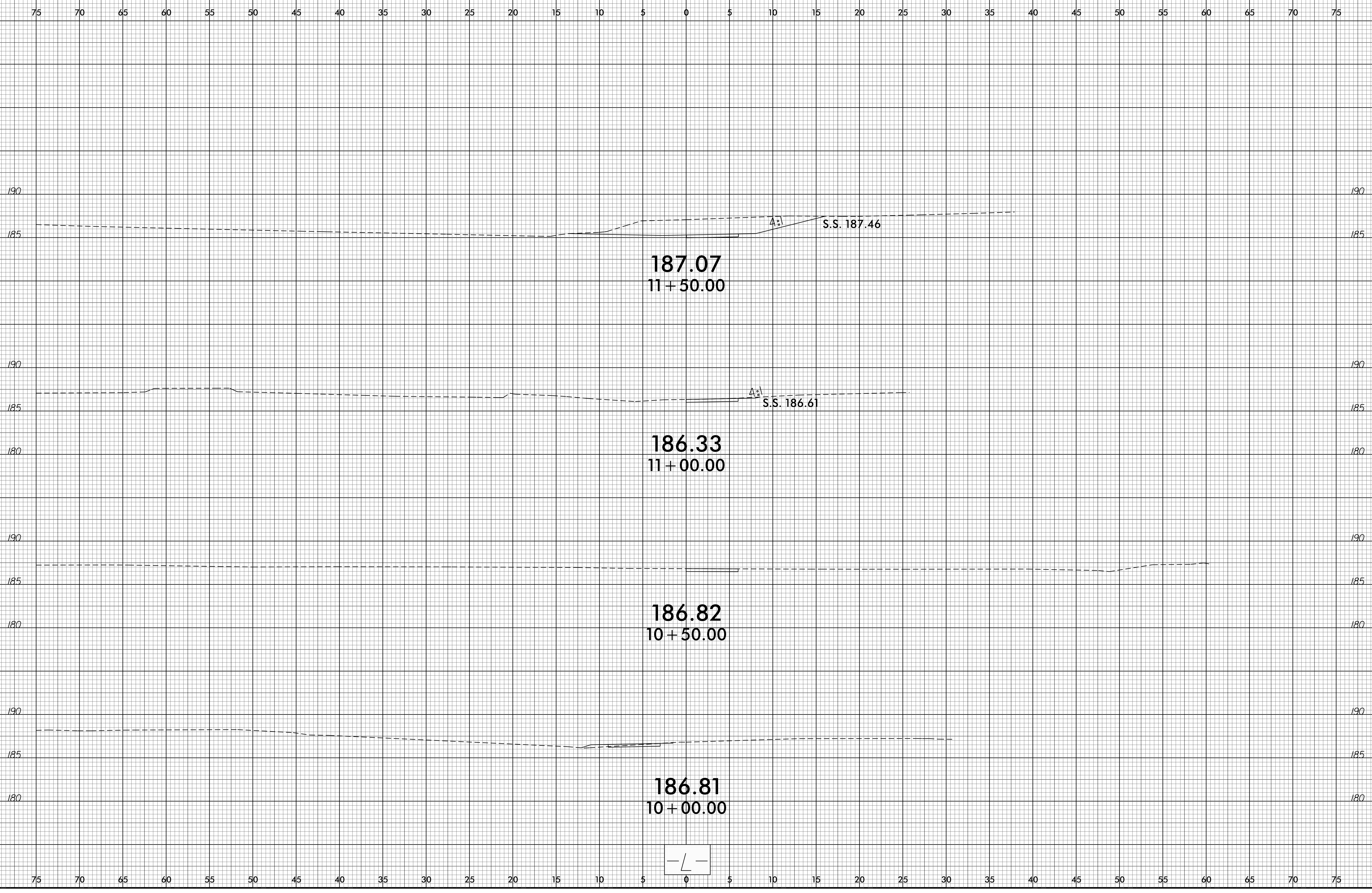
220
210
200
190
180
170
160
150
140
130

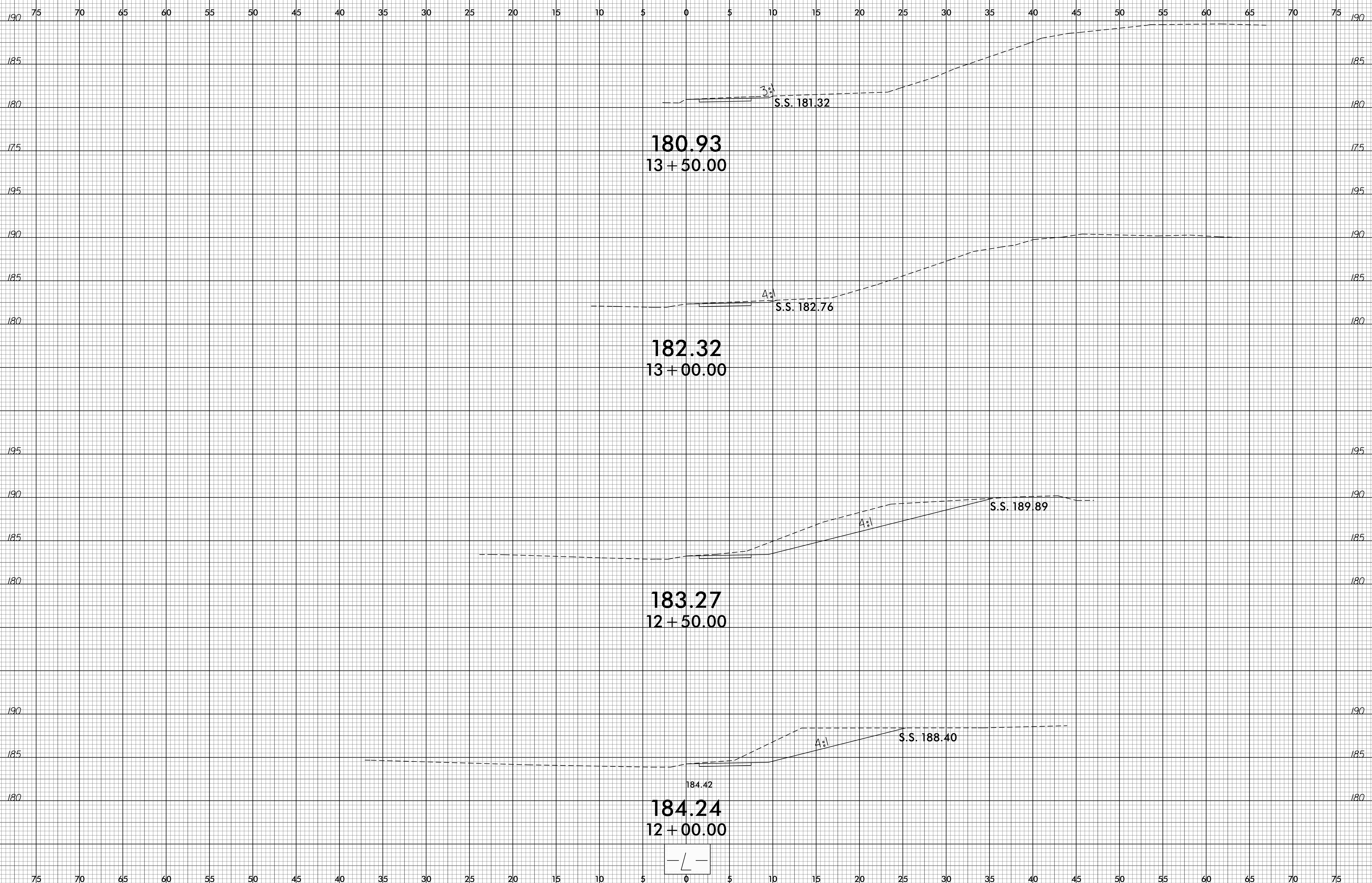
38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00

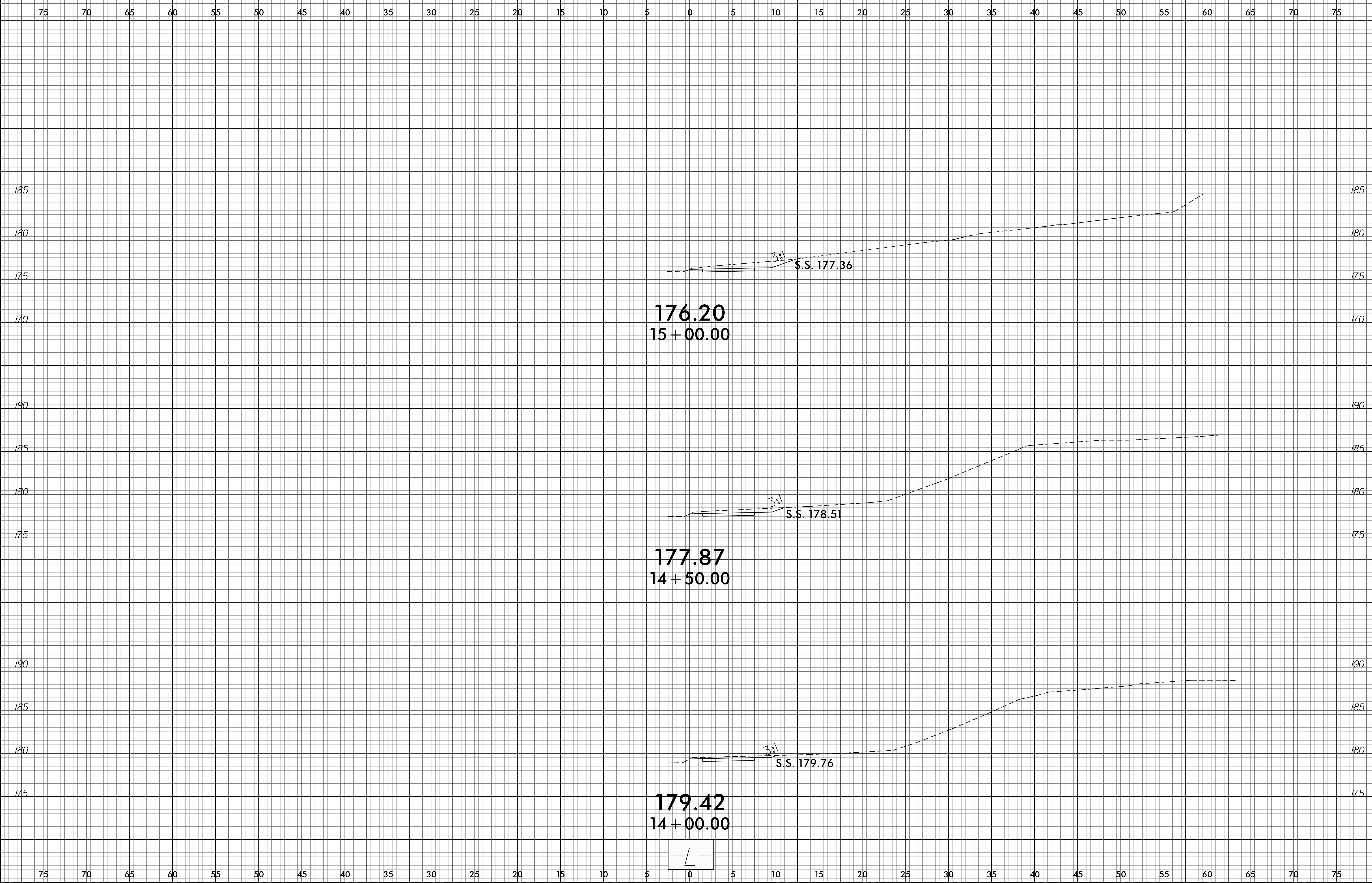
END STATE PROJECT EB-6014
-L- STA 45+88.01
ELEV 186.44



17-AUG-2010 09:02
444417021021010210







176.20
15 + 00.00

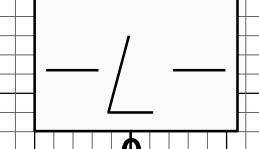
S.S. 177.36

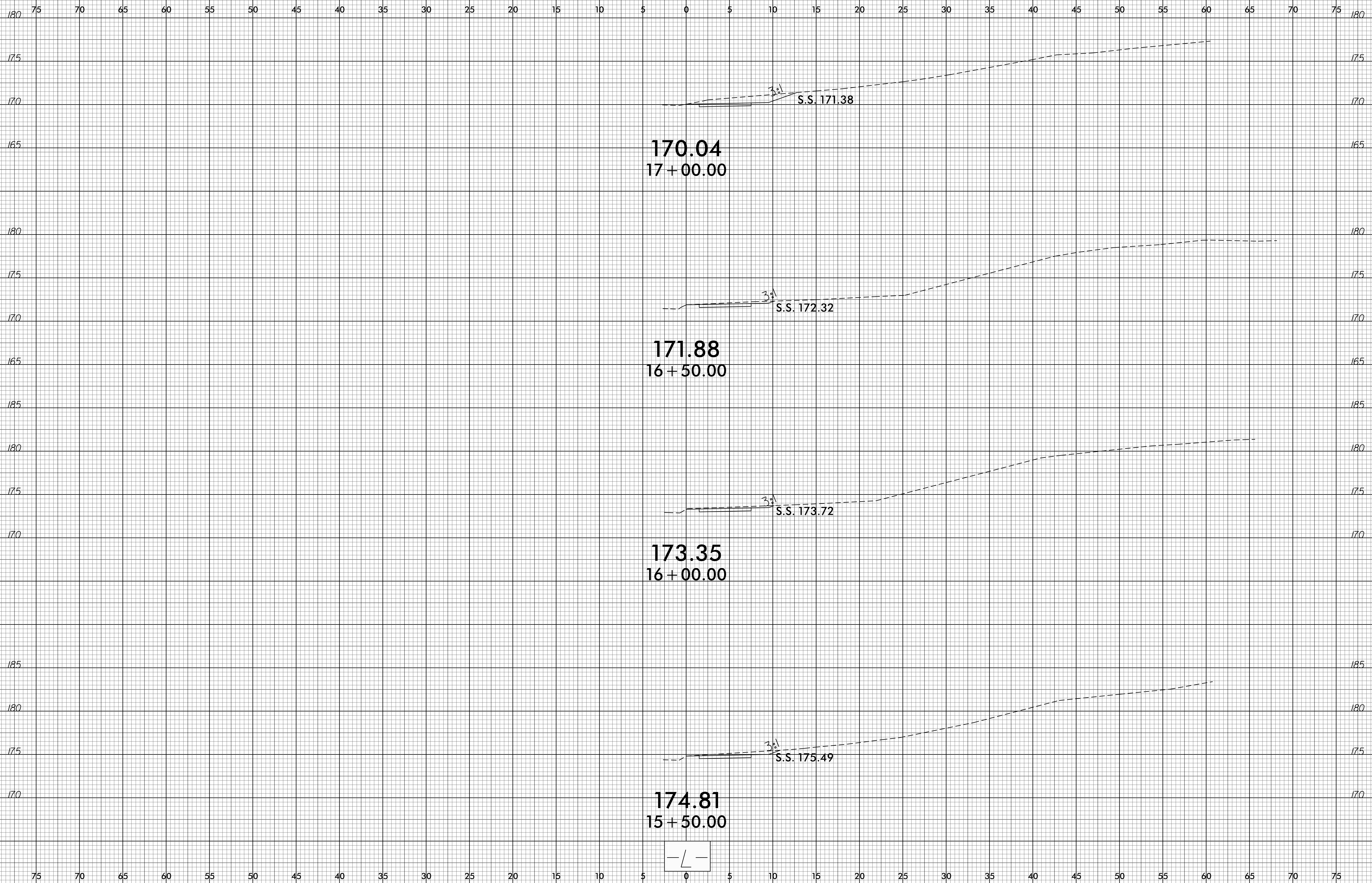
177.87
14 + 50.00

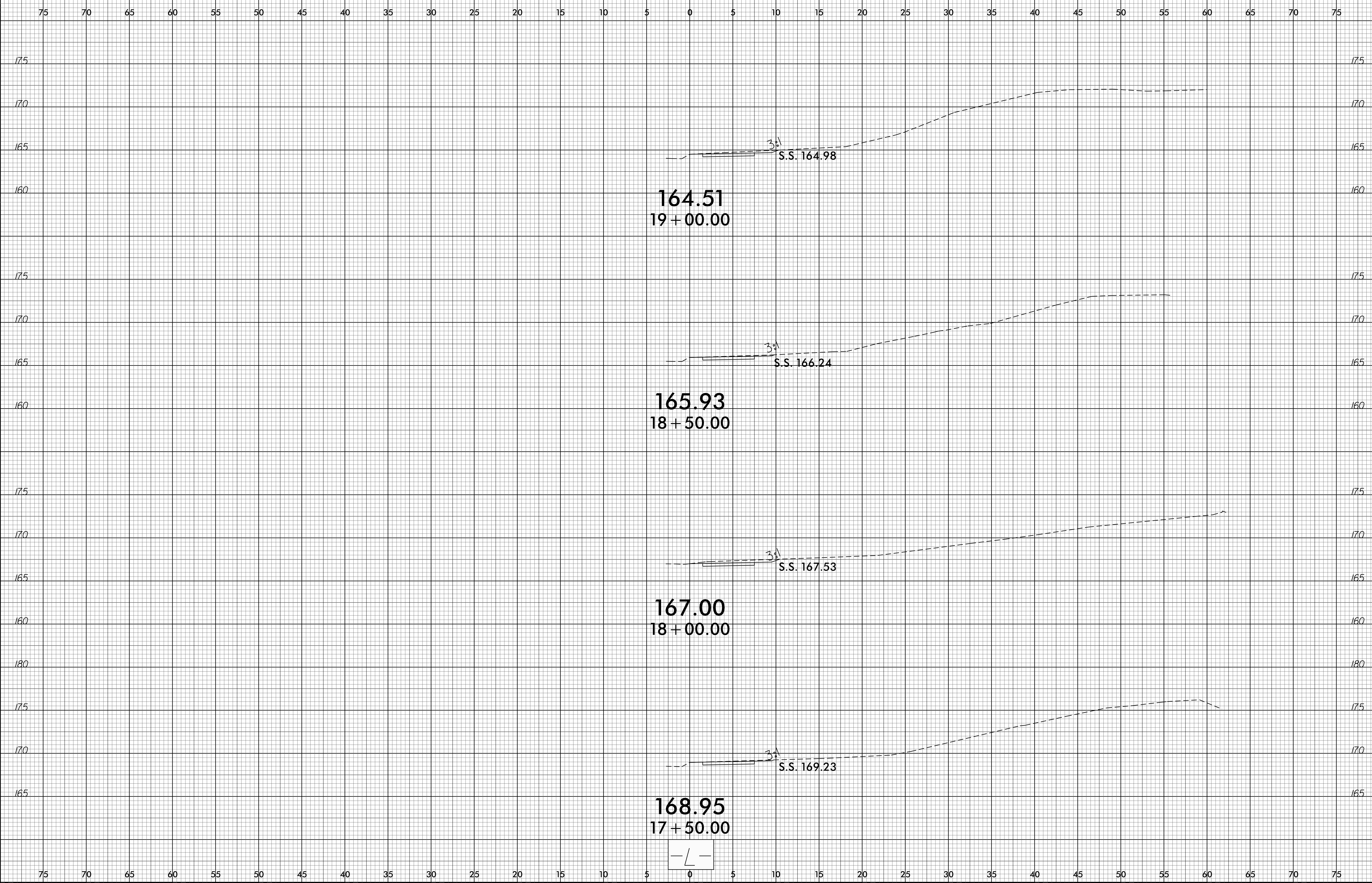
S.S. 178.51

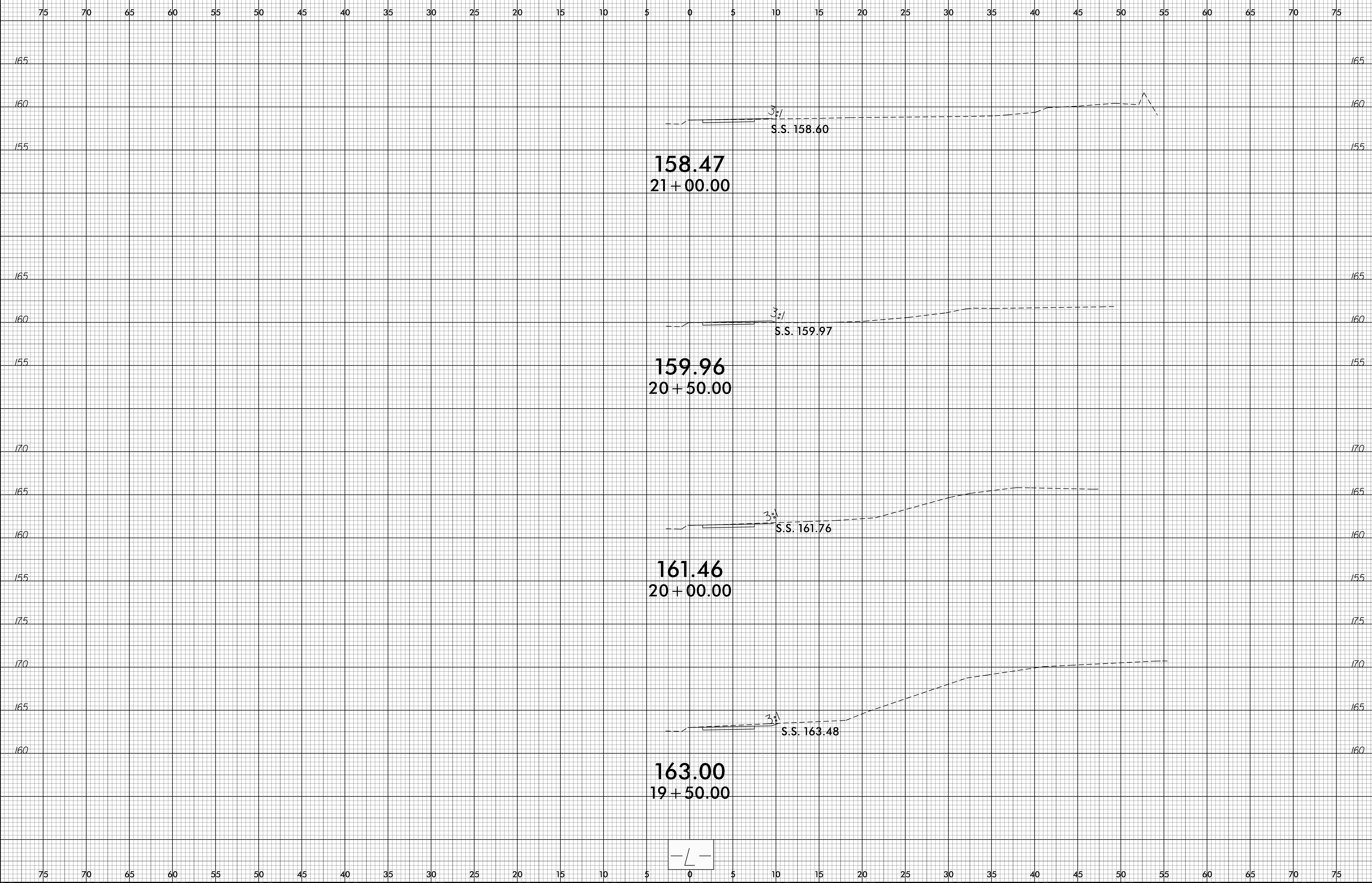
179.42
14 + 00.00

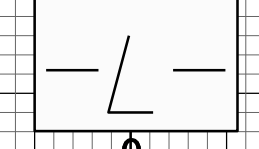
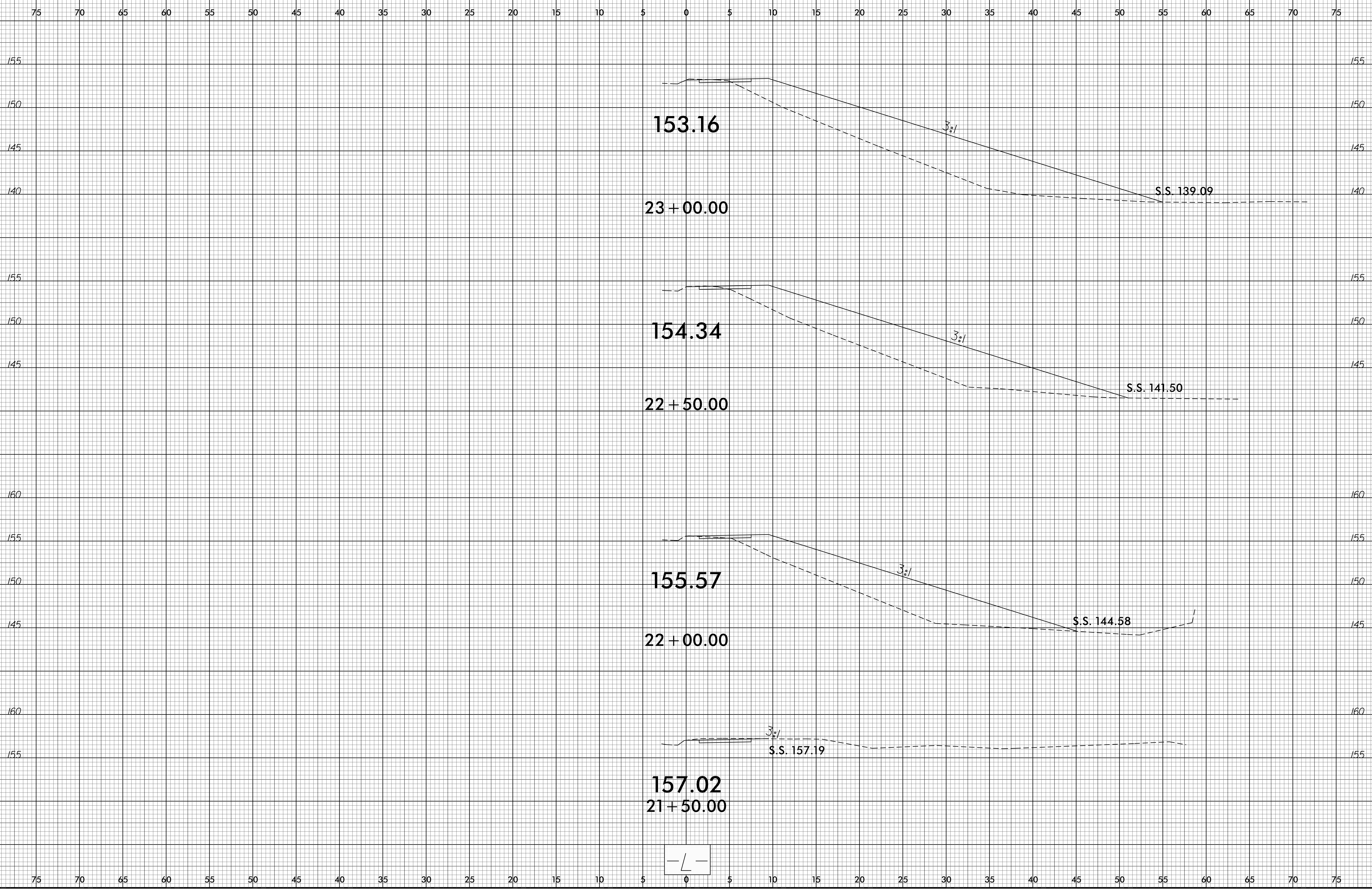
S.S. 179.76

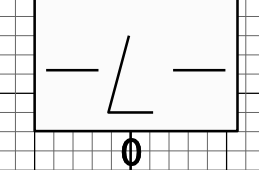
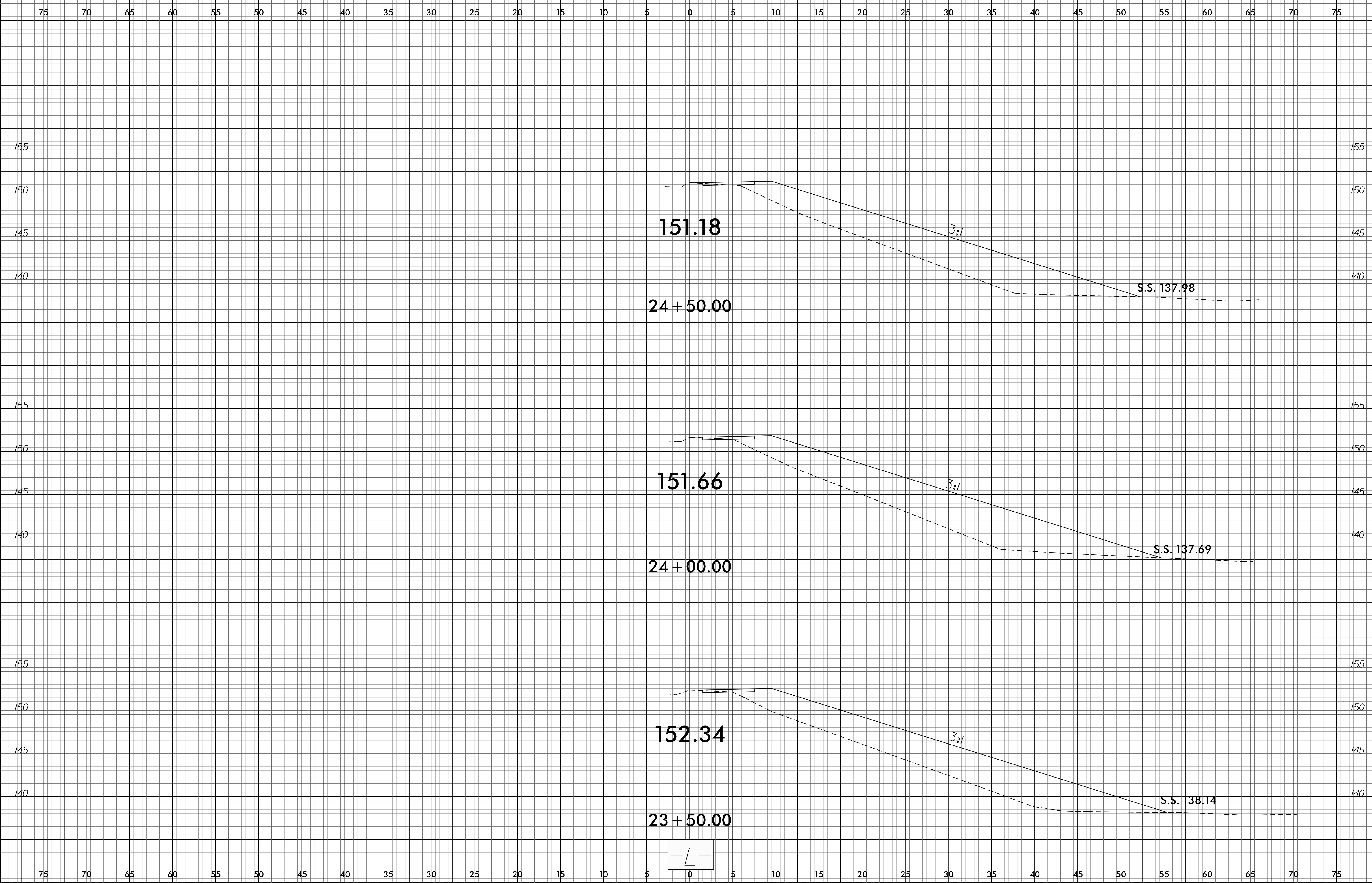


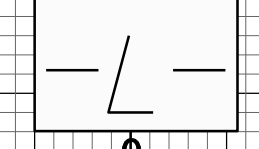
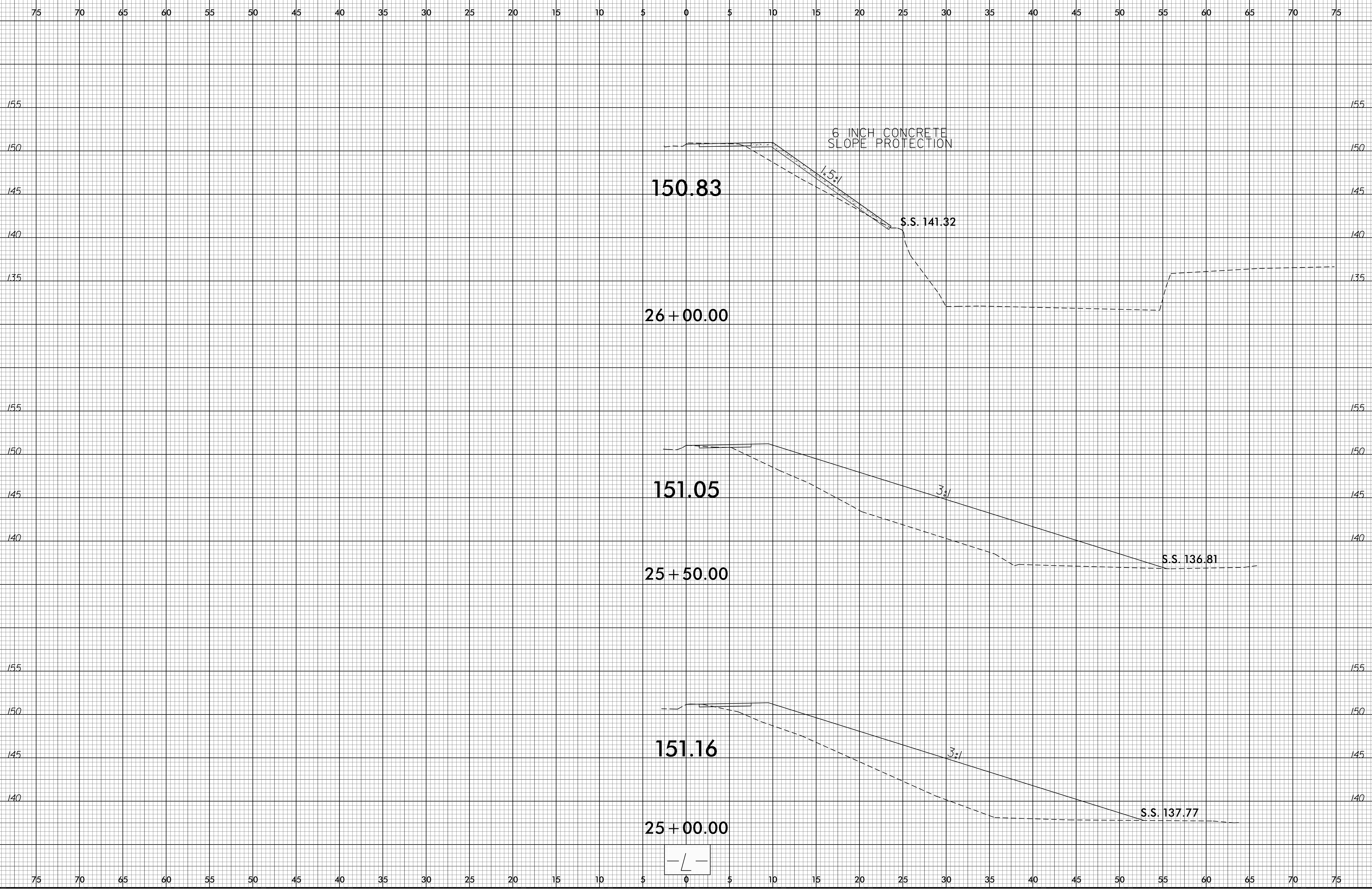


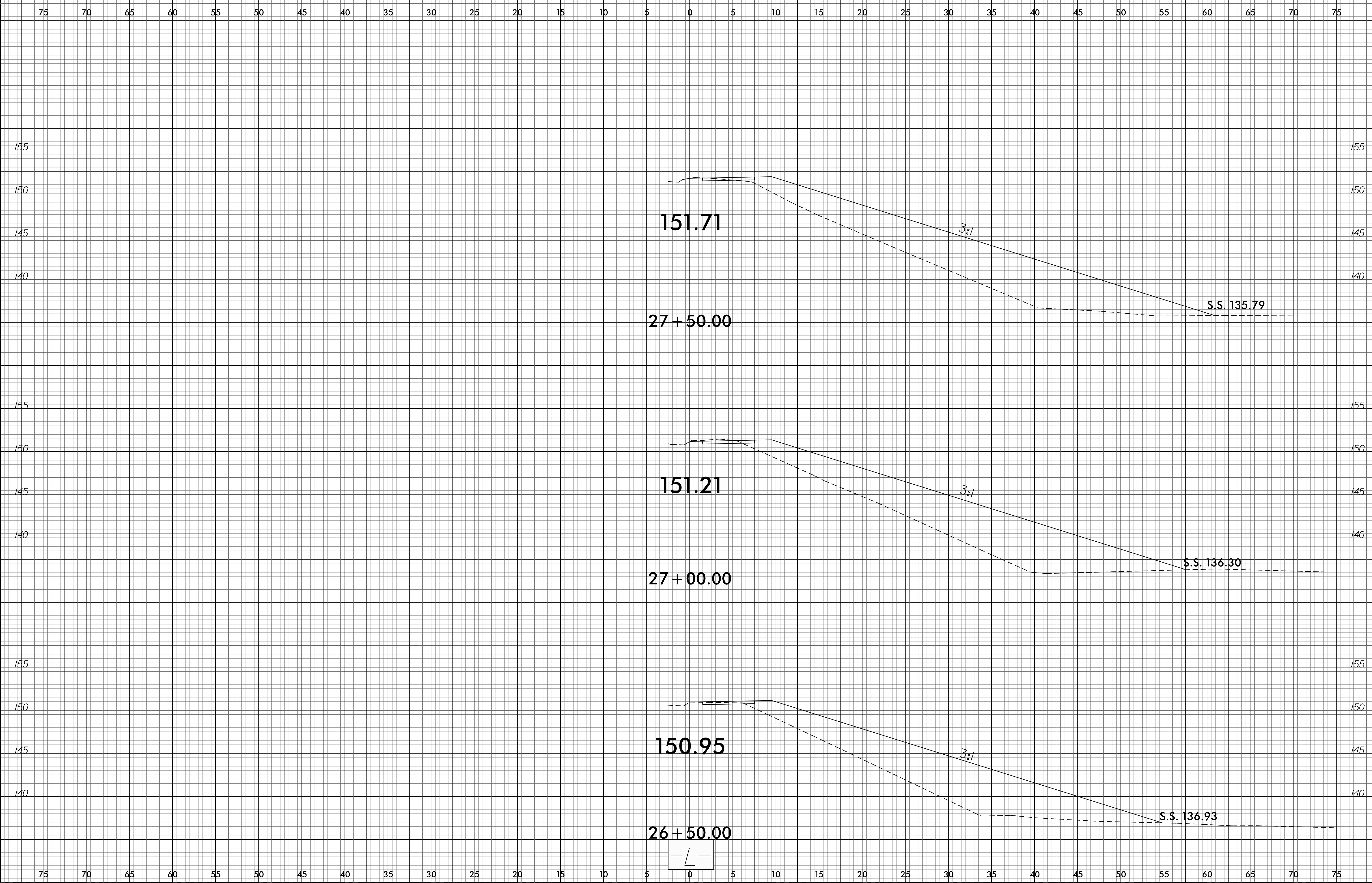




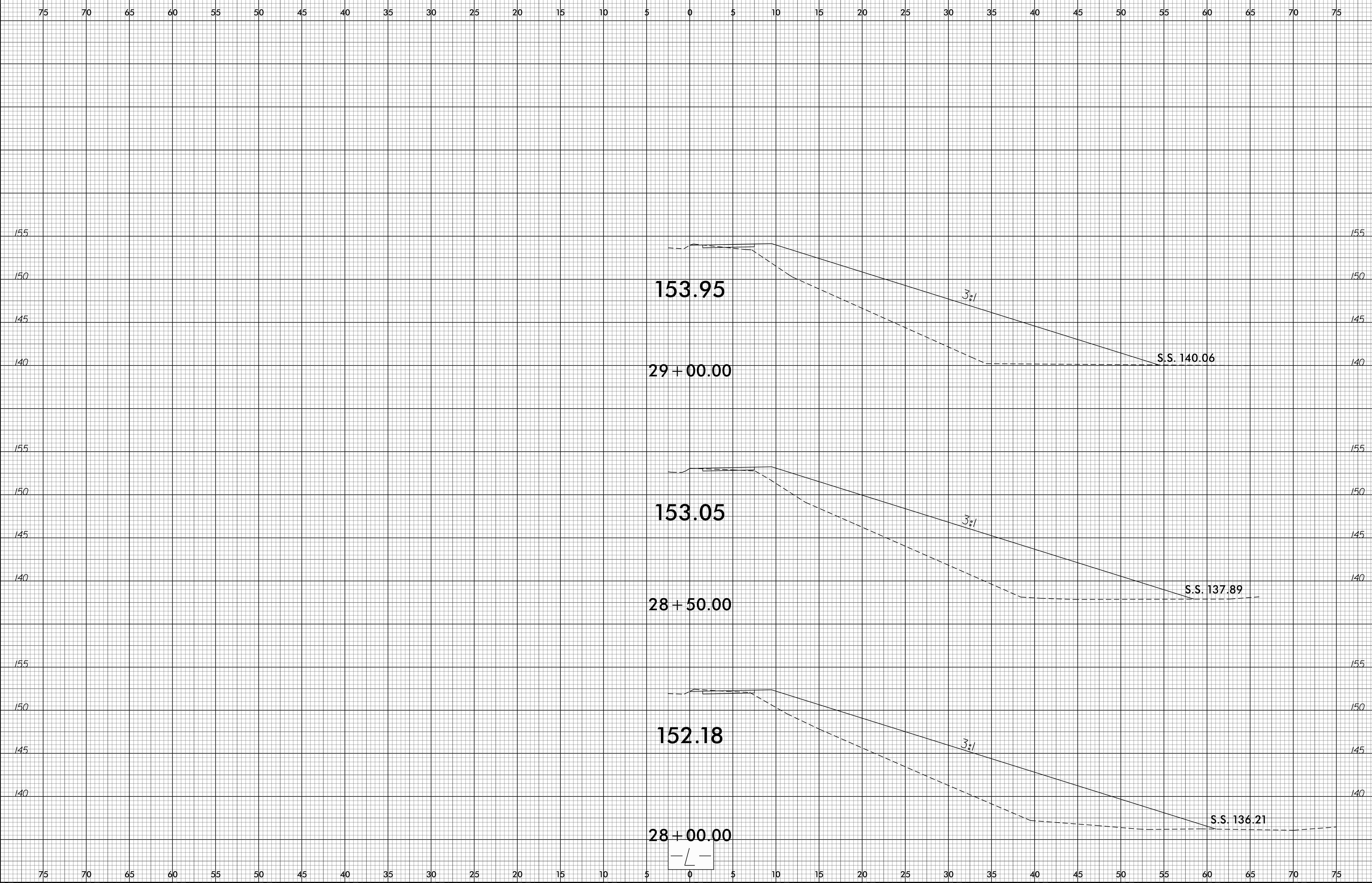






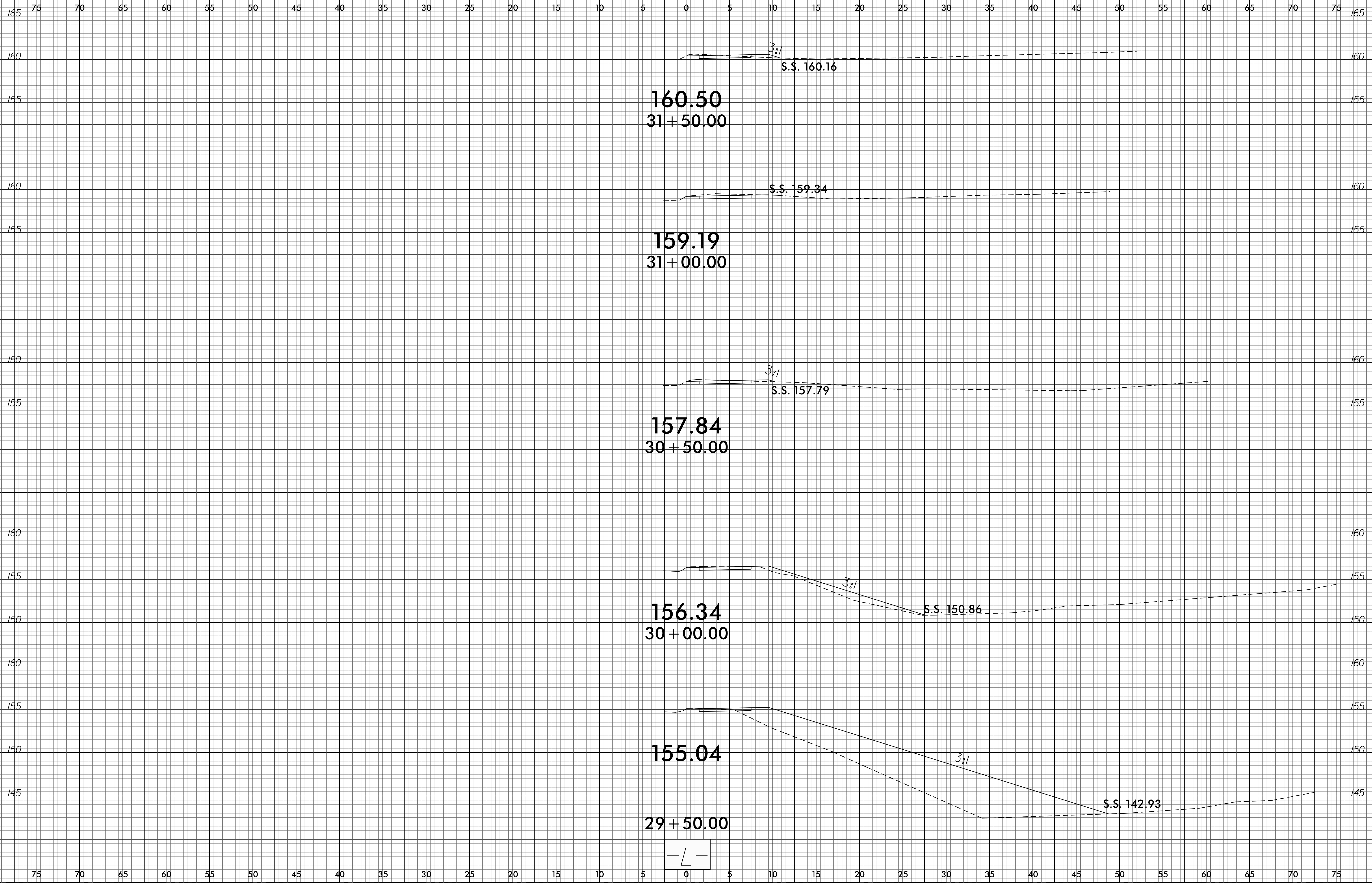


6/23/16

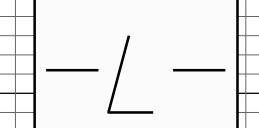
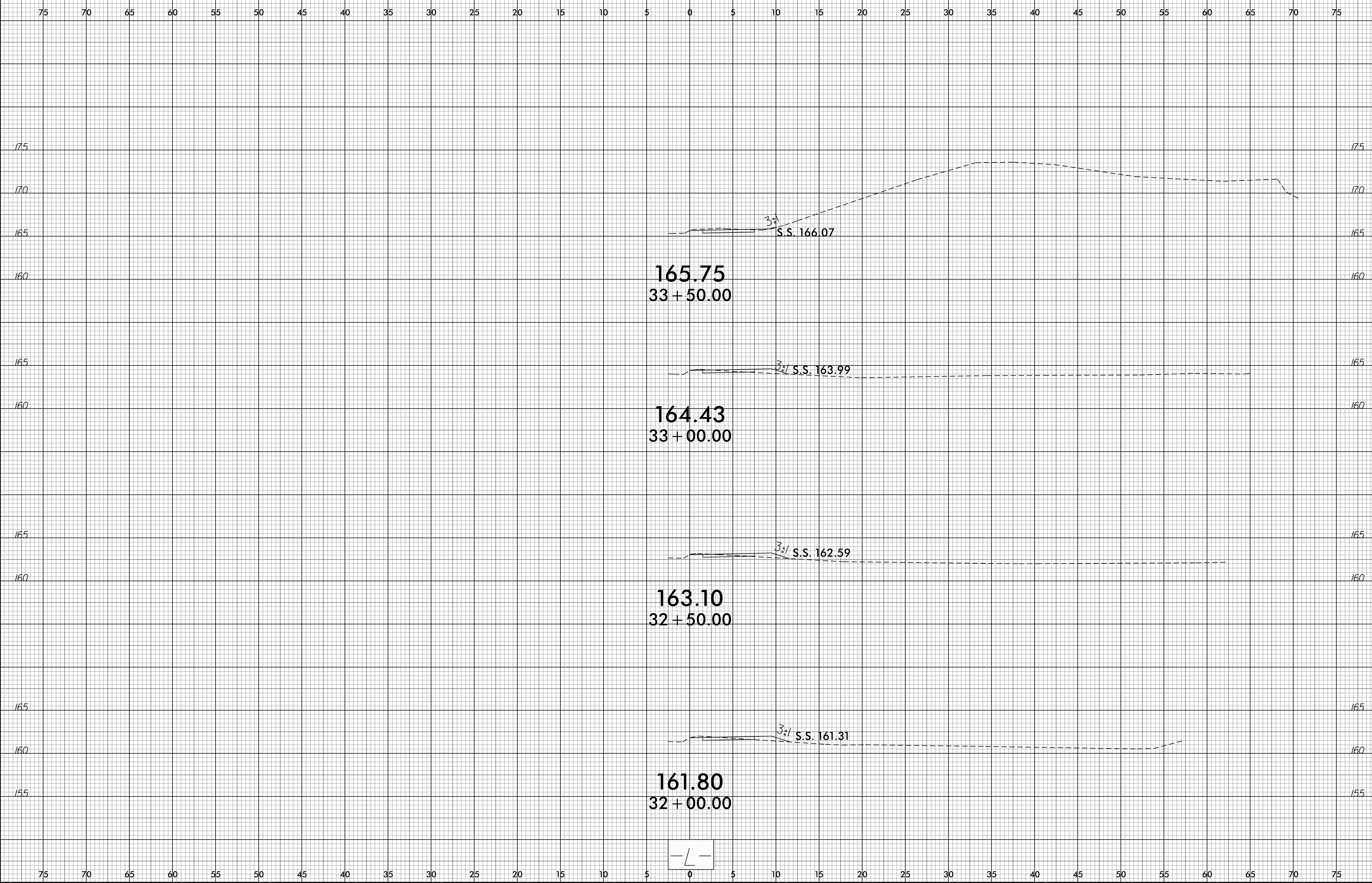


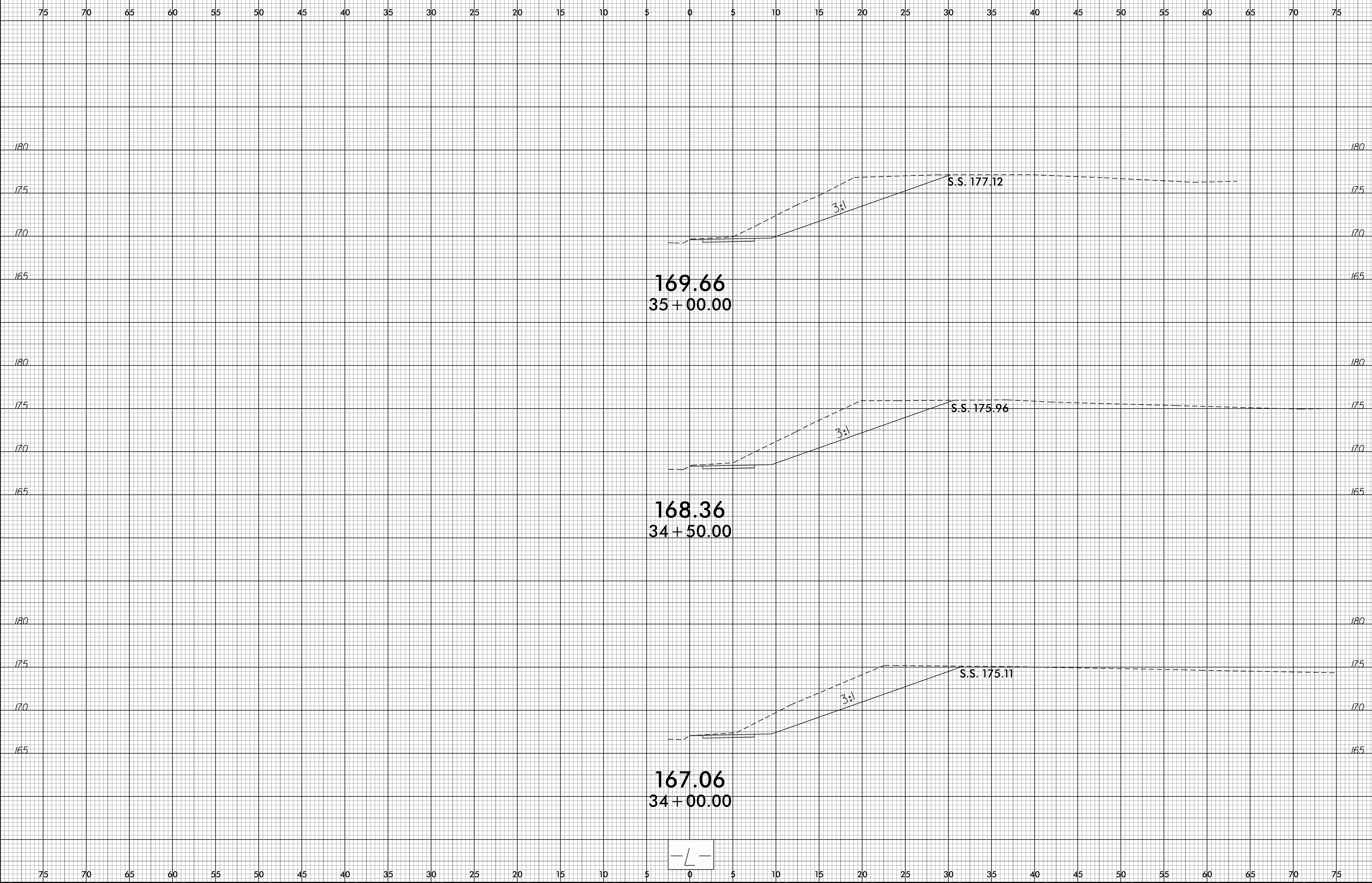
12-AUG-2021 14:10
EB-6014.dwg
USER:RME

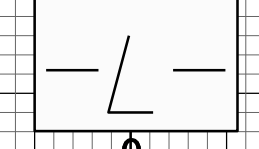
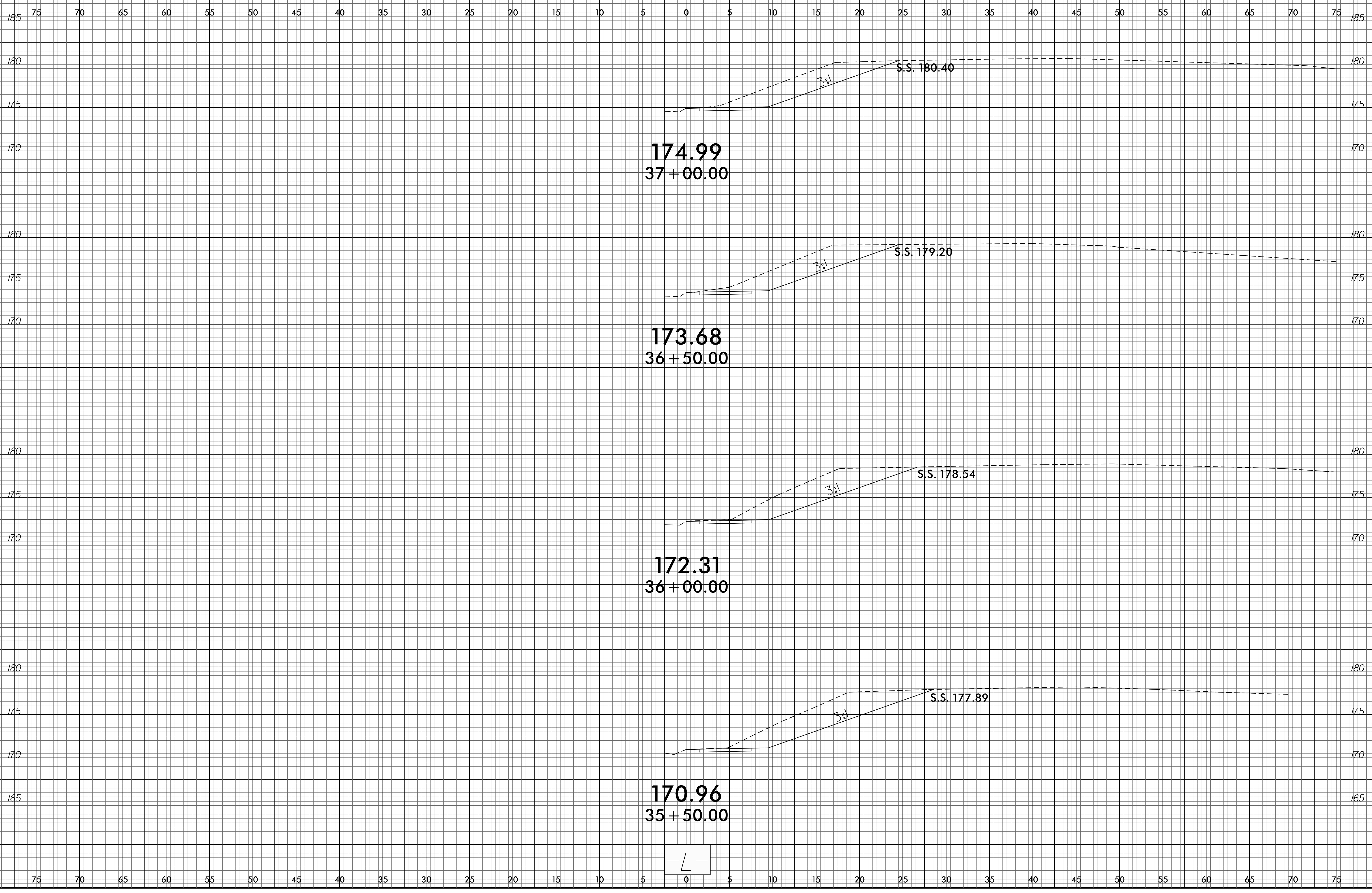
6/23/16

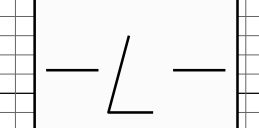
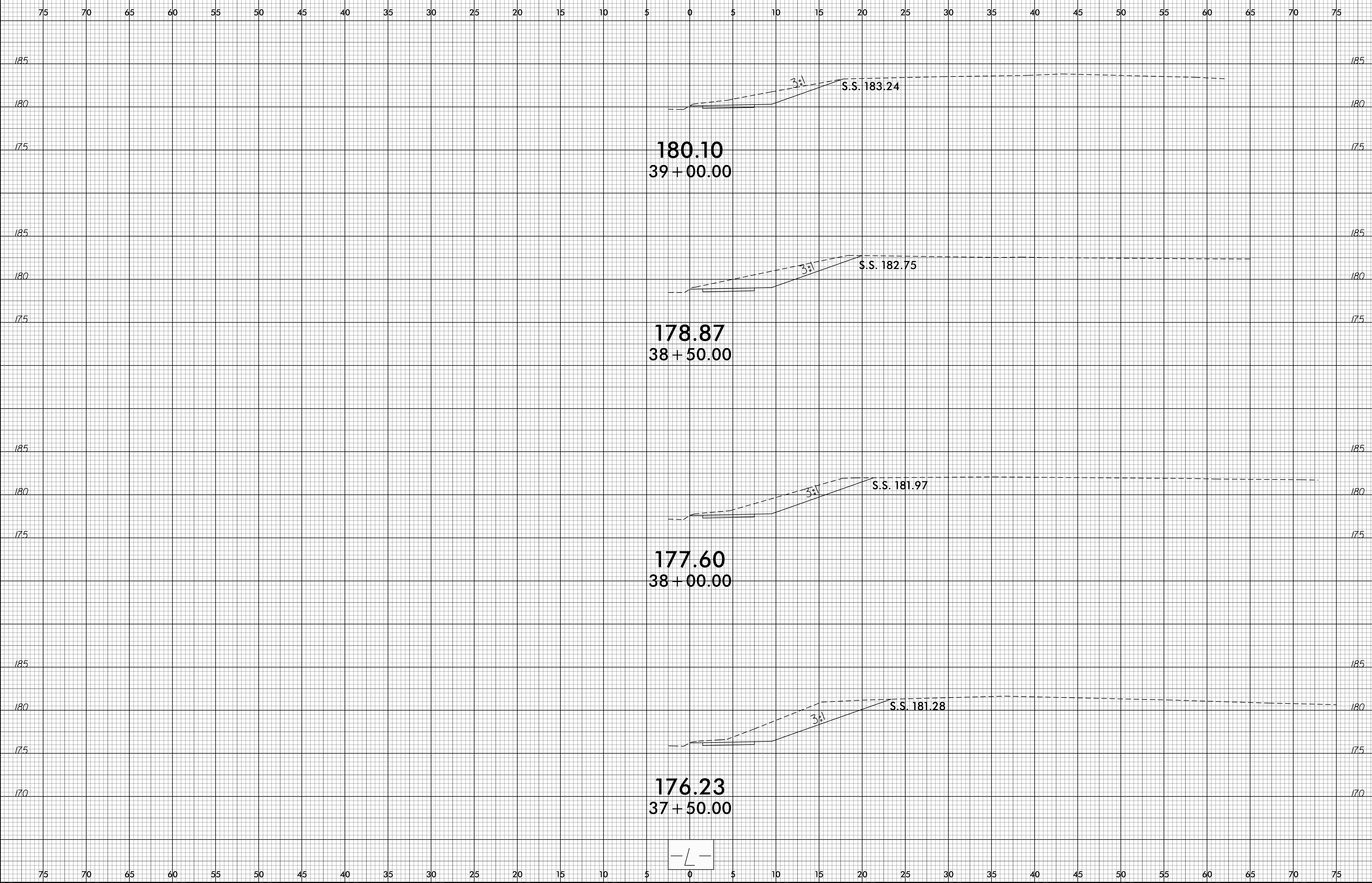


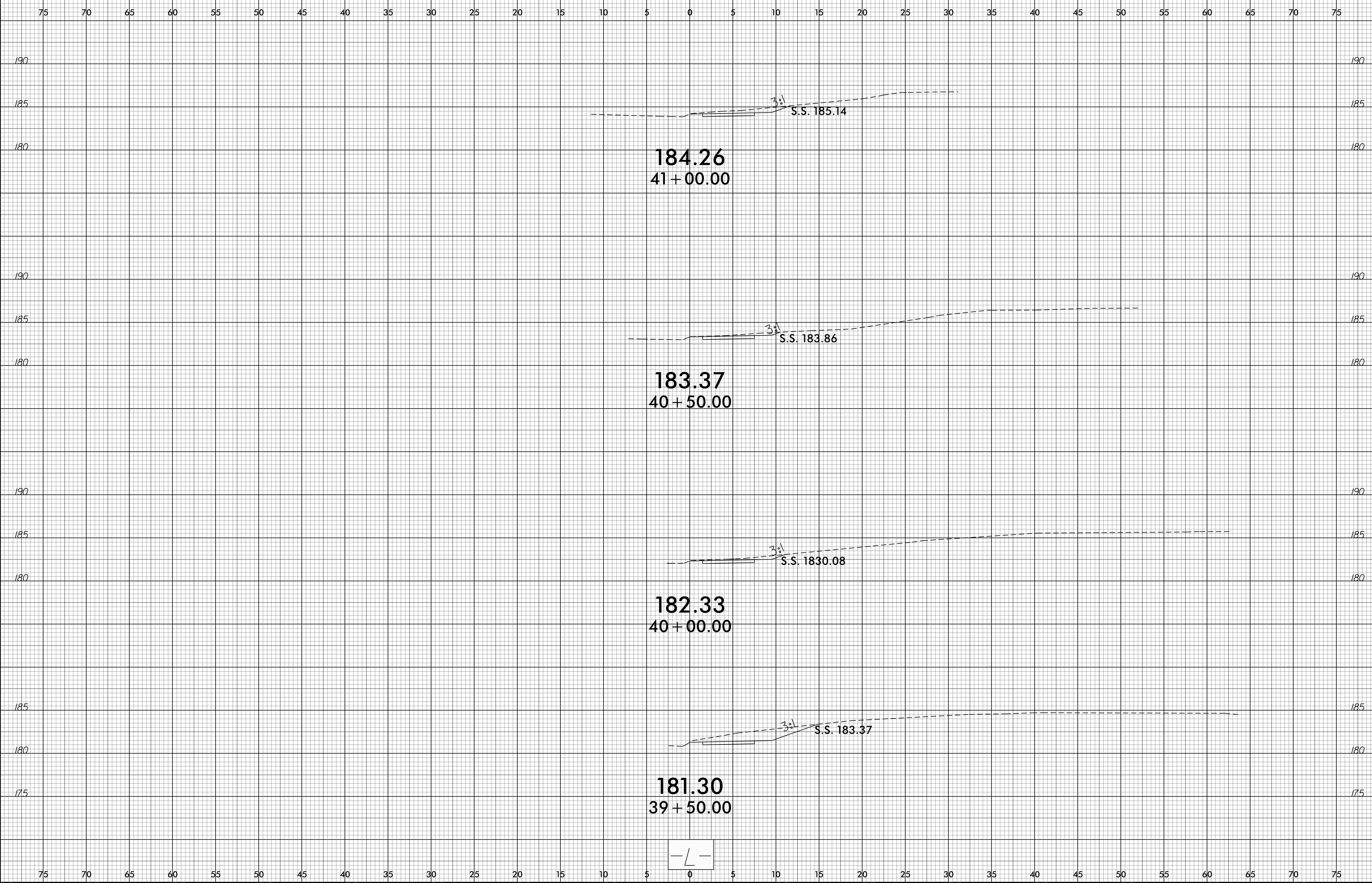
12-AUG-2021 14:10
EB-6014.dwg
USER:RME

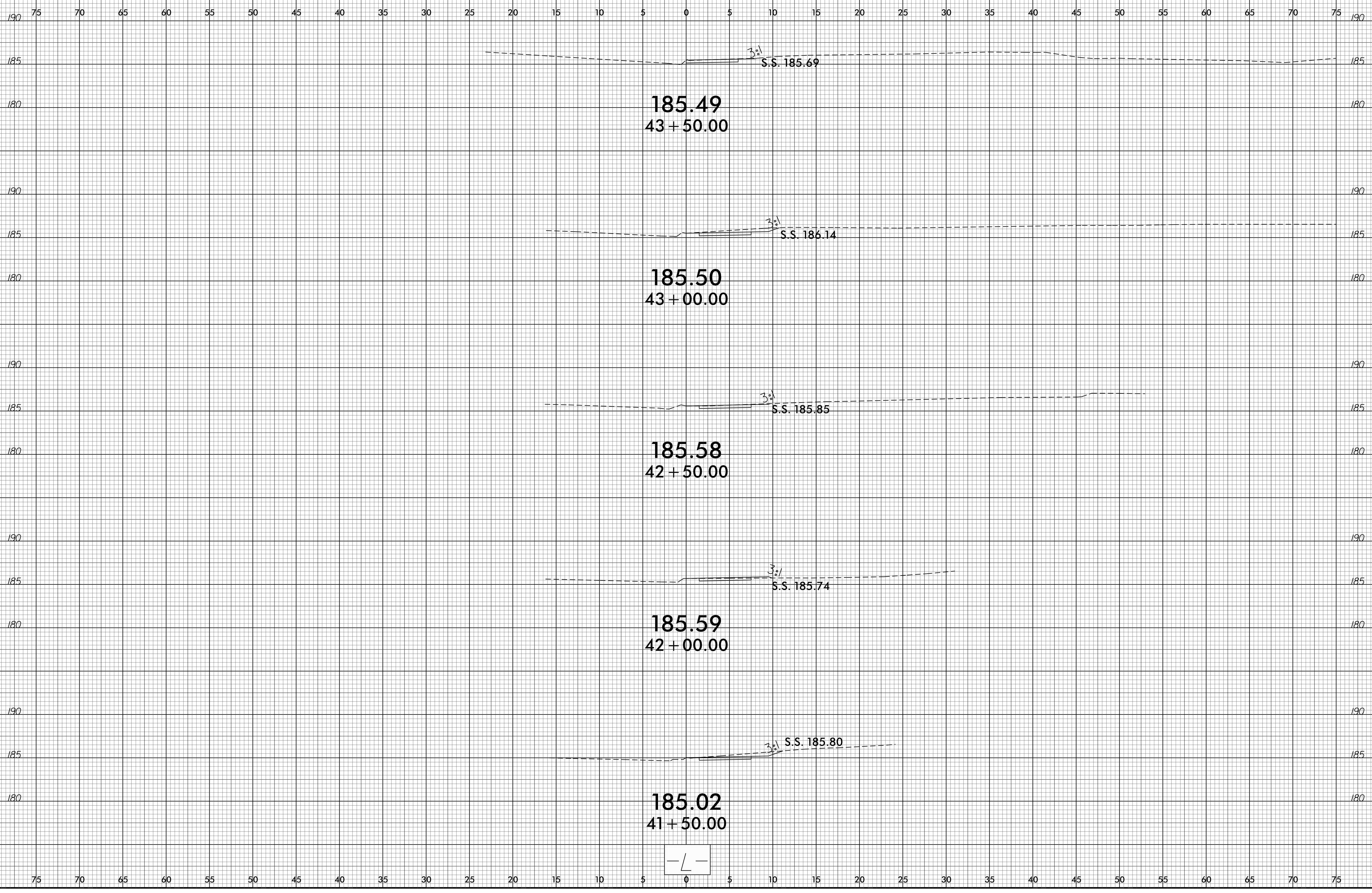




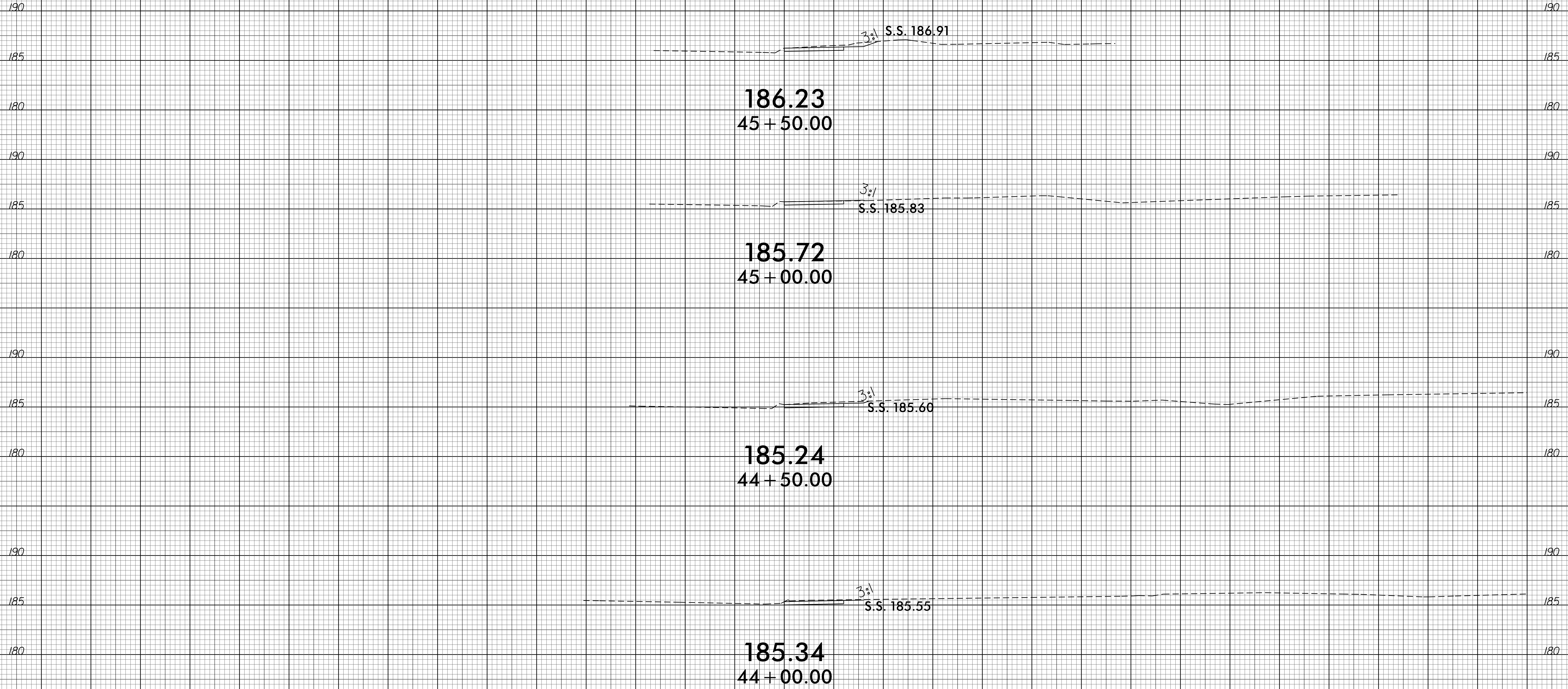








75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



— / —

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75