North Dakota Department of Transportation

Thomas K. Sorel
Director

Doug Burgum
Governor

November 8, 2017

ADDENDUM 2 – JOB 5

TO: All prospective bidders on Project ROM-0300(135), Job No. 5 scheduled for the November 17, 2017 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

See attached summary from Clifford R. Menting PE, Sambatek Inc. dated November 8, 2017 for an explanation.

This addendum is to be incorporated into the bidder's proposal for this project.

PHILLIP MURDOFF – CONSTRUCTION SERVICES ENGINEER
80:jwj
Enclosure

November 8, 2017

ADDENDUM 2 – JOB 5

TO: All prospective bidders on Project ROM 0300(135) PCN 21835, Job 5, scheduled for the November 17, 2017 bid opening

The following plan revisions shall be made:

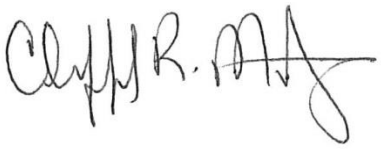
Plan Revisions ROM 0300(135), PCN 21835:

Remove and replace, the following sheets with the revised sheets dated 10/13/17:

Sec 1 Sheet 1:	Added legal descriptions
Sec 2 Sheet 1:	Modified Page(s) column to match changes.
Sec 4 Sheets 2-5:	Added project site stationing
Sec 11 Sheet 1-8:	Modified comments on the bottom of the table to include the 50% shrinkage in water.
Sec 20 Sheet 4:	Added the "Engineering's Discretion" Table showing the quantities.
Sec 30 Sheet 1:	Added the alignment stationing for each project roadway.
Sec 60 Sheets 1-29:	Added a note on plan view with regards to the centerline pipe stating the stationing, size of pipe to be removed, and length.
Sec 76 Sheet 1-21:	Modified the comment "See Sheet 28-31."
Sec 76 Sheet 24-27:	Modified the comment "See Sheet 28-31."
Sec 110 Sheet 2:	Relocated text "Fiber optic line graphics drawn by location map provided by SRT Communications."

Sec 200 Sheet 3-143: Added a cross section where centerline culverts are located, affecting the remaining sheet numbering.

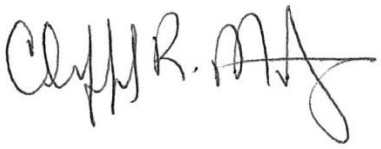
Sincerely;



Clifford R. Menting, PE
Project Manager
Sambatek, Inc.

Sec 200 Sheet 3-143: Added a cross section where centerline culverts are located, affecting the remaining sheet numbering.

Sincerely;



Clifford R. Menting, PE
Project Manager
Sambatek, Inc.

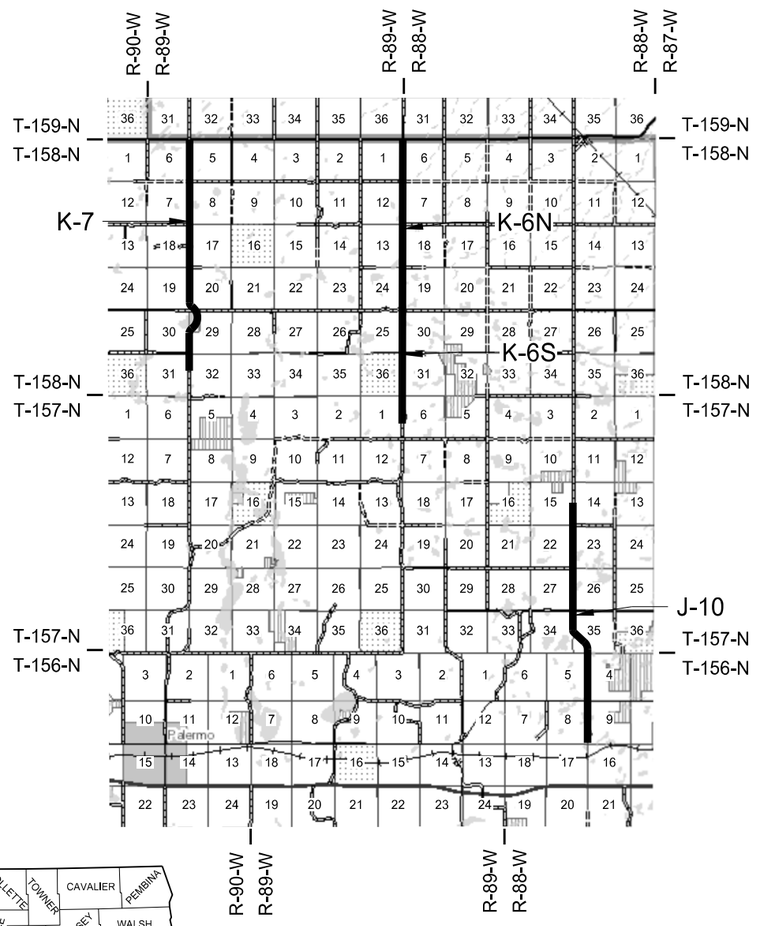
DESIGN DATA				
Traffic N/A	Average Daily			
Current N/A	Pass: N/A	Trucks: N/A	Total: N/A	
Preventive Maintenance: Inslope Repair				

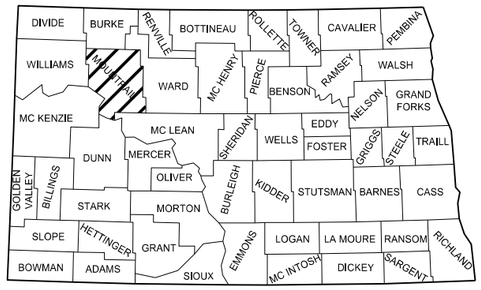
Revised 10/16/17	STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	21835	1	1

JOB # 5
NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

ROM-0300(135)

Mountrail County
Minot Minuteman Complex Inslope Repair





STATE COUNTY MAP

GOVERNING SPECIFICATIONS:
2014 Standard Specifications adopted by the North Dakota Department of Transportation and the Supplemental Specifications effective on the date the project is advertised.

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
ROM-0300(135)	3.8258	3.8258

DESIGNERS

Clifford R. Menting, PE

Bradley J. Schaff, EIT

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE Date Signed by PE

Clifford Menting
NDDOT DIV-DIST OR CONSULTANT FIRM

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Revised 10/16/2017	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	2	1

TABLE OF CONTENTS

PLAN SECTIONS

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8	1	Quantities
10	1 - 2	Basis of Estimate
11	1 - 8	Data Tables
20	1 - 4	General Details
30	1 - 28	Typical Sections
50	1	Hydraulic Data
51	1	Allowable Pipe List
60	1 - 29	Plan & Profile
75	1 - 22	Wetland Impacts
76	1 - 31	Temporary Erosion Control
77	1 - 30	Permanent Erosion Control
81	1 - 4	Survey Coordinate and Curve Data
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110	1 - 3	Signing
200	1 - 143	Cross Sections

LIST OF STANDARD DRAWINGS

Number	Description
D-101-1, 2, 3	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31, 32	Symbols
D-203-7	Recovery Approaches At T-Intersections
D-203-8	Standard Rural Approaches
D-260-1	Erosion And Siltation Controls - Silt Fence
D-261-1	Erosion Control - Fiber Roll Placement Details
D-704-5	Contractor Sign Detail
D-704-7, 8	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-9, 11	Construction Sign Details - Terminal And Guide Signs
D-704-12	Shoulder Closure Tapers
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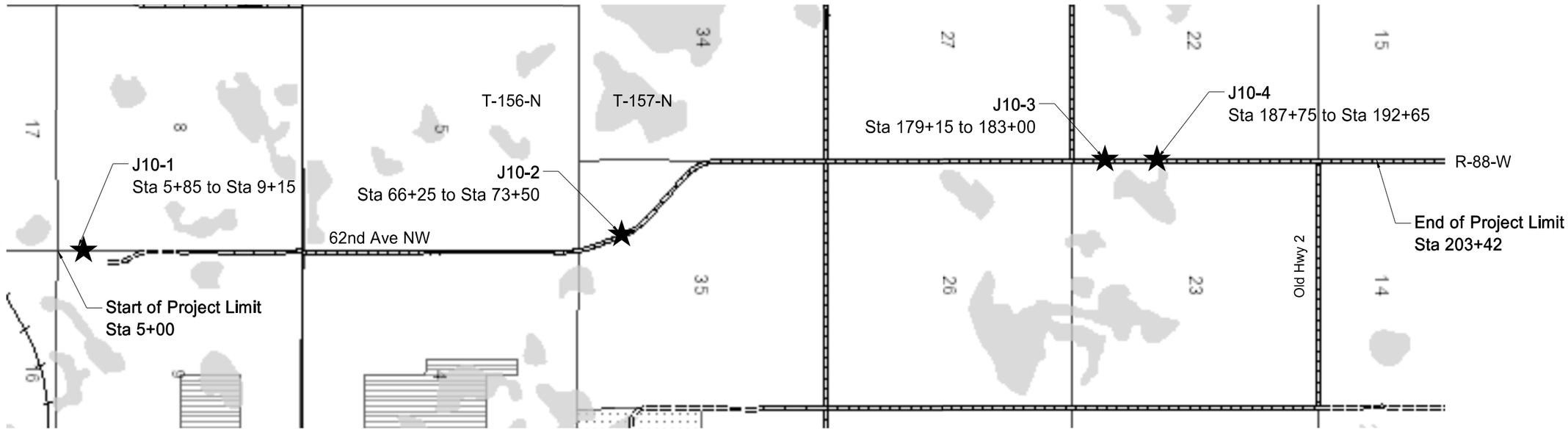
D-704-14	Construction Sign Punching And Mounting Details
D-704-15	Road Closure Layouts
D-704-20	Terminal And Seal Coat Sign Layouts
D-704-22	Construction Truck And Temporary Detour Layouts
D-704-30	Windrow Marking
D-704-31	Construction Sign Layout - Non-Signalized Low Volume One Lane Closure
D-714-25, 26	Transverse Mainline Pipe Installation Detail for Pipes More Than 4 Feet Below Top of the Proposed Subgrade
D-752-1	Standard Barbed Wire Fence
D-754-7	Pipe Support And Sign Mounting Details
D-754-18	Barricade And Advance Signs For Forward Roadway Termination
D-754-24	Mounting Details Perforated Tube
D-754-82, 83	Object Markers

SPECIAL PROVISIONS

Number	Description
SP 003(14)	Temporary Erosion and Sediment Best Management Practices
SP 5181(14)	Permits and Environmental Considerations
SP 568(14)	Concrete Erosion Control Blanket

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	4	2



J-10
Mountrail County

★ Construction Site

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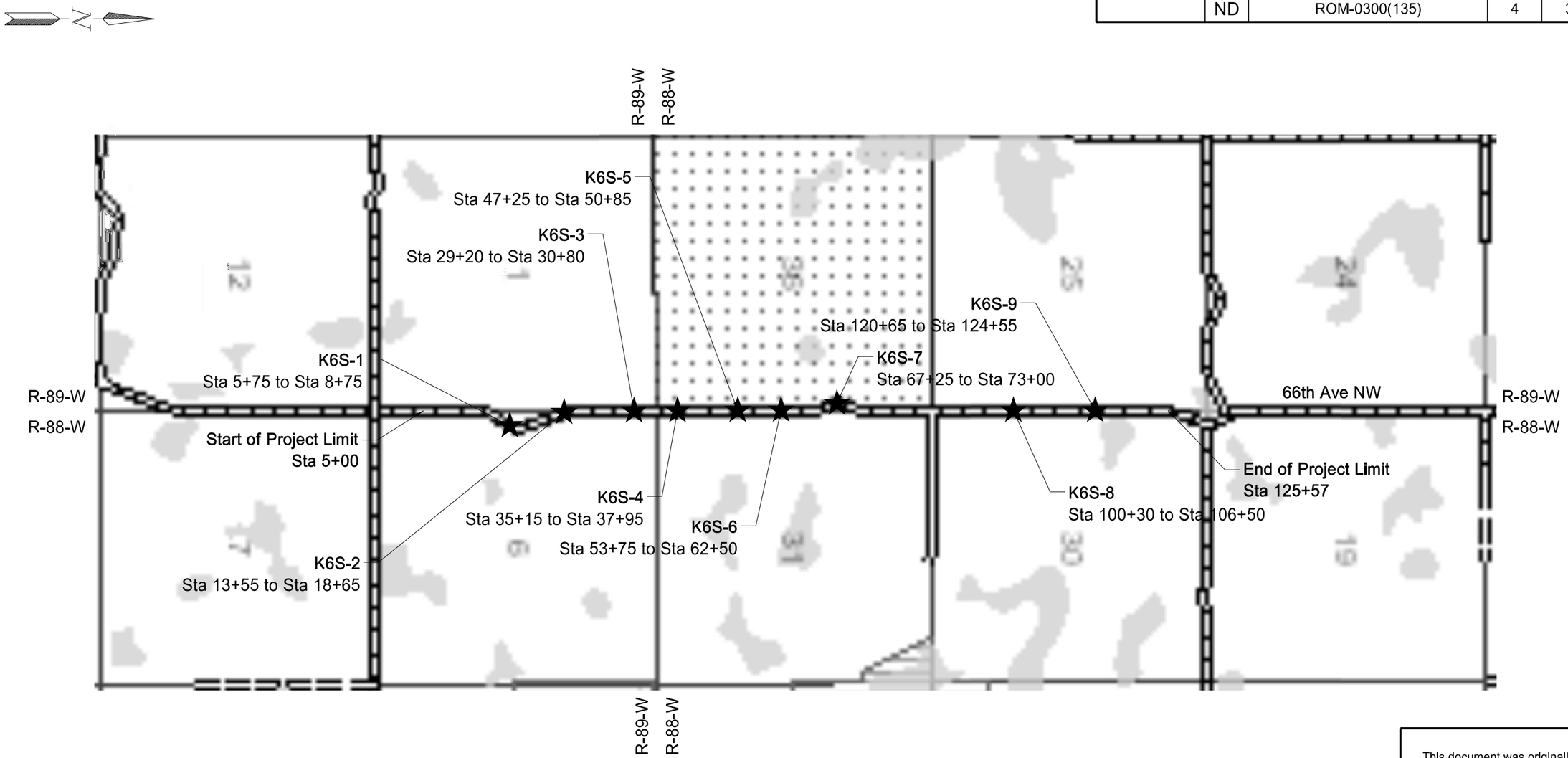
Scope of work

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	4	3



K-6S
Mountrail County

★ Construction Site

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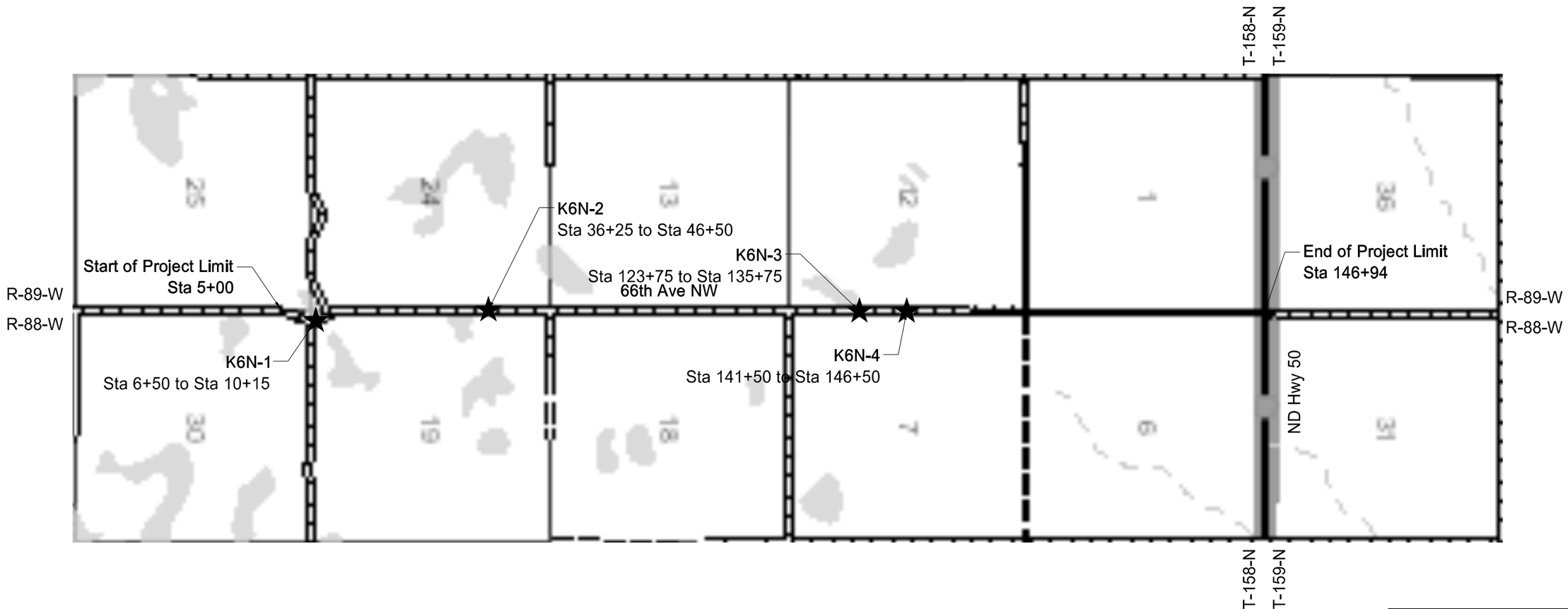
Scope of work

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	4	4



K-6N
Mountrail County

★ Construction Site

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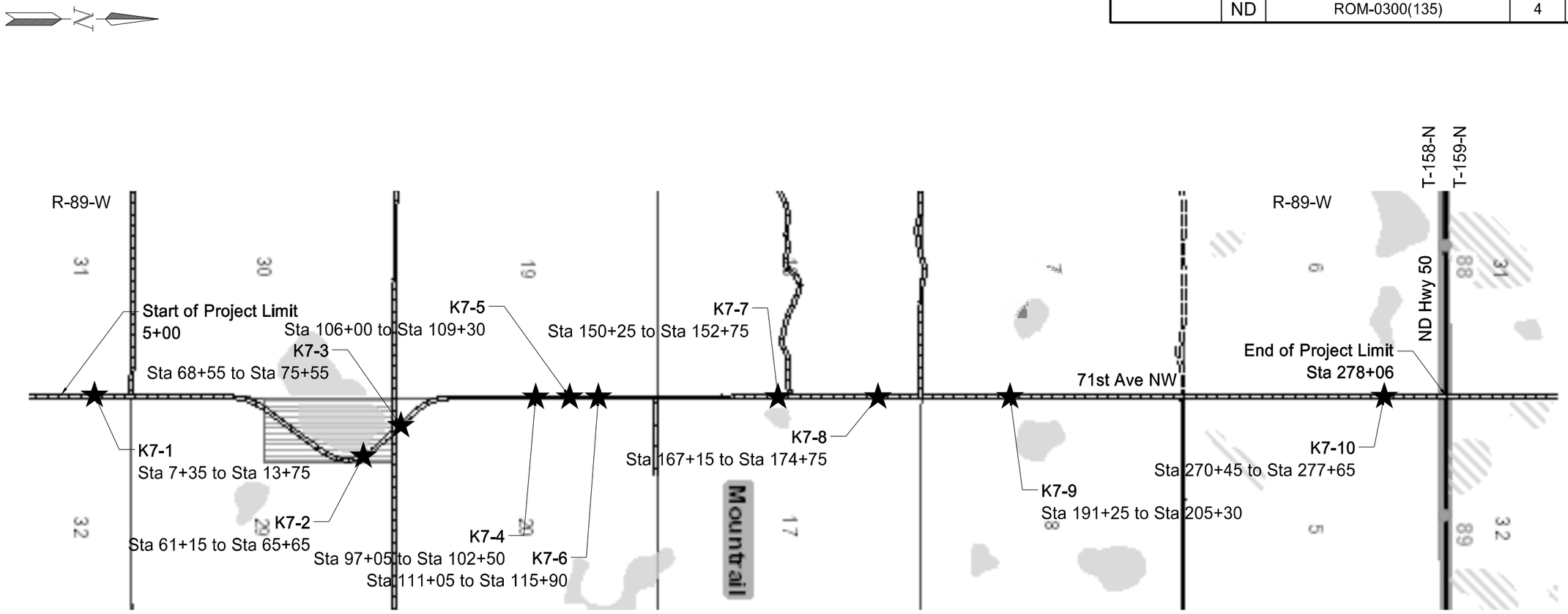
Scope of work

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	4	5



K-7
Mountrail County

★ Construction Site

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Scope of work

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	1

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
J10-1						
6+25.00	Fill	20.9	0	0	0	0
6+50.00	Fill	30.6	24	24	30	-30
6+75.00	Fill	37.1	31	55	39	-69
7+00.00	Fill	35.7	34	89	43	-111
7+25.00	Fill	21.1	26	115	33	-144
7+50.00	Fill	18.9	18	133	23	-166
7+75.00	Fill	21.6	19	152	24	-190
8+00.00	Fill	29.6	24	176	30	-220
8+25.00	Fill	8.1	17	193	21	-241
J10-2						
66+25.00	Fill	3.4	0	0	0	0
66+50.00	Fill	13.2	8	8	10	-10
66+75.00	Fill	13.4	12	20	15	-25
67+00.00	Fill	16.5	14	34	18	-43
67+25.00	Fill	16.0	15	49	19	-61
67+50.00	Fill	18.2	16	65	20	-81
67+75.00	Fill	13.7	15	80	19	-100
68+00.00	Fill	11.1	11	91	14	-114
68+25.00	Fill	13.8	12	103	15	-129
68+50.00	Fill	18.3	15	118	19	-148
68+75.00	Fill	22.4	19	137	24	-171
69+00.00	Fill	17.4	18	155	23	-194
69+25.00	Fill	15.9	15	170	19	-213
69+50.00	Fill	14.2	14	184	18	-230
69+75.00	Fill	8.8	11	195	14	-244
70+00.00	Fill	6.9	7	202	9	-253
70+25.00	Fill	6.6	6	208	8	-260
70+50.00	Fill	4.6	5	213	6	-266
70+75.00	Fill	4.1	4	217	5	-271
71+00.00	Fill	8.4	6	223	8	-279
71+25.00	Fill	12.3	10	233	13	-291
71+50.00	Fill	15.3	13	246	16	-308
71+75.00	Fill	17.8	15	261	19	-326
72+00.00	Fill	23.4	19	280	24	-350
72+25.00	Fill	30.9	25	305	31	-381
72+50.00	Fill	46.5	36	341	45	-426
72+75.00	Fill	54.6	47	388	59	-485
73+00.00	Fill	37.1	42	430	53	-538
73+25.00	Fill	16.7	25	455	31	-569
73+50.00	Fill	1.3	8	463	10	-579

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
J10-3						
179+25.00	Fill	3.3	0	0	0	0
179+50.00	Fill	12.1	7	7	9	-9
179+75.00	Fill	27.7	18	25	23	-31
180+00.00	Fill	30.5	27	52	34	-65
180+25.00	Fill	28.0	27	79	34	-99
180+50.00	Fill	28.2	26	105	33	-131
180+75.00	Fill	25.1	25	130	31	-163
181+00.00	Fill	14.6	18	148	23	-185
181+25.00	Fill	10.6	12	160	15	-200
181+50.00	Fill	19.0	14	174	18	-218
181+75.00	Fill	30.1	23	197	29	-246
182+00.00	Fill	35.0	30	227	38	-284
182+25.00	Fill	22.0	26	253	33	-316
182+50.00	Fill	16.1	18	271	23	-339
182+75.00	Fill	7.2	11	282	14	-353
183+00.00	Fill	4.1	5	287	6	-359
J10-4						
187+75.00	Fill	4.3	0	0	0	0
188+00.00	Fill	8.8	6	6	8	-8
188+25.00	Fill	13.1	10	16	13	-20
188+50.00	Fill	13.0	12	28	15	-35
188+75.00	Fill	11.2	11	39	14	-49
189+00.00	Fill	11.0	10	49	13	-61
189+25.00	Fill	9.2	9	58	11	-73
189+50.00	Fill	12.8	10	68	13	-85
189+75.00	Fill	6.9	9	77	11	-96
190+00.00	Fill	4.7	5	82	6	-103
190+25.00	Fill	2.7	3	85	4	-106
190+50.00	Fill	9.8	6	91	8	-114
190+75.00	Fill	12.3	10	101	13	-126
191+00.00	Fill	11.2	11	112	14	-140
191+25.00	Fill	16.5	13	125	16	-156
191+50.00	Fill	28.2	21	146	26	-183
191+75.00	Fill	31.5	28	174	35	-218
192+00.00	Fill	31.7	29	203	36	-254
192+25.00	Fill	20.2	24	227	30	-284
192+50.00	Fill	3.1	11	238	14	-298

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	2

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6S-1						
6+00.00	Fill	1.7	0	0	0	0
6+25.00	Fill	5.0	3	3	4	-4
6+50.00	Fill	2.8	4	7	5	-9
6+75.00	Fill	2.4	2	9	3	-11
7+00.00	Fill	6.8	4	13	5	-16
7+25.00	Fill	5.1	6	19	8	-24
7+50.00	Fill	7.8	6	25	8	-31
7+75.00	Fill	7.5	7	32	9	-40
8+00.00	Fill	14.2	10	42	13	-53
8+25.00	Fill	18.6	15	57	19	-71
K6S-2						
14+75.00	Fill	7.0	0	0	0	0
15+00.00	Fill	5.0	6	6	8	-8
15+25.00	Fill	1.8	3	9	4	-11
15+50.00	Fill	1.7	2	11	3	-14
15+75.00	Fill	1.4	1	12	1	-15
16+00.00	Fill	1.8	1	13	1	-16
16+25.00	Fill	2.3	2	15	3	-19
16+50.00	Fill	3.0	2	17	3	-21
16+75.00	Fill	4.0	3	20	4	-25
17+00.00	Fill	2.9	3	23	4	-29
17+25.00	Fill	1.3	2	25	3	-31
17+50.00	Fill	1.6	1	26	1	-33
17+75.00	Fill	2.5	2	28	3	-35
K6S-3						
29+25.00	Fill	3.9	0	0	0	0
29+50.00	Fill	4.0	4	4	5	-5
29+75.00	Fill	7.1	5	9	6	-11
30+00.00	Fill	3.7	5	14	6	-18
K6S-4						
35+50.00	Fill	5.6	0	0	0	0
35+75.00	Fill	6.0	5	5	6	-6
36+00.00	Fill	8.3	7	12	9	-15
36+25.00	Fill	21.0	14	26	18	-33
36+50.00	Fill	19.9	19	45	24	-56
36+75.00	Fill	21.6	19	64	24	-80
37+00.00	Fill	21.5	20	84	25	-105
37+25.00	Fill	20.9	20	104	25	-130
37+50.00	Fill	21.1	19	123	24	-154
37+75.00	Fill	2.8	11	134	14	-168

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6S-5						
47+75.00	Fill	34.7	0	0	0	0
48+00.00	Fill	26.4	28	28	35	-35
48+25.00	Fill	27.6	25	53	31	-66
48+50.00	Fill	21.0	23	76	29	-95
48+75.00	Fill	14.6	17	93	21	-116
49+00.00	Fill	11.3	12	105	15	-131
49+25.00	Fill	11.3	10	115	13	-144
49+50.00	Fill	12.4	11	126	14	-158
49+75.00	Fill	6.9	9	135	11	-169
K6S-6						
54+00.00	Fill	4.71	0	0	0	0
54+25.00	Fill	13.71	9	9	11	-11
54+50.00	Fill	13.22	12	21	15	-26
54+75.00	Fill	13.89	13	34	16	-43
55+00.00	Fill	17.96	15	49	19	-61
55+25.00	Fill	21.58	18	67	23	-84
55+50.00	Fill	18.37	18	85	23	-106
55+75.00	Fill	11.01	14	99	18	-124
56+00.00	Fill	4	7	106	9	-133
56+25.00	Fill	1.58	3	109	4	-136
56+50.00	Fill	0	1	110	1	-138
56+75.00	Fill	0	0	110	0	-138
57+00.00	Fill	0	0	110	0	-138
57+25.00	Fill	0	0	110	0	-138
57+50.00	Fill	2.46	5	115	6	-144
57+75.00	Fill	2.33	2	117	3	-146
58+00.00	Fill	8.77	5	122	6	-153
58+25.00	Fill	11.81	10	132	13	-165
58+50.00	Fill	10.08	10	142	13	-178
58+75.00	Fill	10.87	10	152	13	-190
59+00.00	Fill	10.04	10	162	13	-203
59+25.00	Fill	7.83	8	170	10	-213
59+50.00	Fill	7.48	7	177	9	-221
59+75.00	Fill	5.47	6	183	8	-229
60+00.00	Fill	5.42	5	188	6	-235
60+25.00	Fill	7.61	6	194	8	-243
60+50.00	Fill	22.74	14	208	18	-260
60+75.00	Fill	30.69	25	233	31	-291
61+00.00	Fill	28.63	27	260	34	-325
61+25.00	Fill	27.76	26	286	33	-358
61+50.00	Fill	25.55	25	311	31	-389
61+75.00	Fill	21.07	22	333	28	-416
62+00.00	Fill	13.7	16	349	20	-436
62+25.00	Fill	3.24	8	357	10	-446

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	3

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6S-7						
67+50.00	Fill	3.4	0	0	0	0
67+75.00	Fill	3.5	3	3	4	-4
68+00.00	Fill	3.1	3	6	4	-8
68+25.00	Fill	4.2	3	9	4	-11
68+50.00	Fill	4.1	4	13	5	-16
68+75.00	Fill	3.8	4	17	5	-21
69+00.00	Fill	5.1	4	21	5	-26
69+25.00	Fill	3.8	4	25	5	-31
69+50.00	Fill	4.4	4	29	5	-36
69+75.00	Fill	2.8	3	32	4	-40
70+00.00	Fill	5.0	4	36	5	-45
70+25.00	Fill	2.9	4	40	5	-50
70+50.00	Fill	6.2	4	44	5	-55
70+75.00	Fill	5.9	6	50	8	-63
71+00.00	Fill	7.8	6	56	8	-70
71+25.00	Fill	3.4	5	61	6	-76
71+50.00	Fill	1.3	2	63	3	-79
71+75.00	Fill	7.3	4	67	5	-84
72+00.00	Fill	6.2	6	73	8	-91
72+25.00	Fill	4.7	5	78	6	-98
72+50.00	Fill	4.5	4	82	5	-103
72+75.00	Fill	5.9	5	87	6	-109

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6S-8						
103+25.00	Fill	1.8	0	0	0	0
103+50.00	Fill	11.4	6	6	8	-8
103+75.00	Fill	26.1	17	23	21	-29
104+00.00	Fill	29.6	26	49	33	-61
104+25.00	Fill	23.9	25	74	31	-93
104+50.00	Fill	18.9	20	94	25	-118
104+75.00	Fill	18.2	17	111	21	-139
105+00.00	Fill	22.7	19	130	24	-163
105+25.00	Fill	23.1	21	151	26	-189
105+50.00	Fill	17.4	19	170	24	-213
105+75.00	Fill	9.7	13	183	16	-229
106+00.00	Fill	8.6	8	191	10	-239
106+25.00	Fill	4.0	6	197	8	-246

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6S-9						
121+00.00	Fill	1.4	0	0	0	0
121+25.00	Fill	4.6	3	3	4	-4
121+50.00	Fill	3.5	4	7	5	-9
121+75.00	Fill	3.9	3	10	4	-13
122+00.00	Fill	1.6	3	13	4	-16
122+25.00	Fill	3.9	3	16	4	-20
122+50.00	Fill	3.9	4	20	5	-25
122+75.00	Fill	6.2	5	25	6	-31
123+00.00	Fill	7.8	7	32	9	-40
123+25.00	Fill	6.5	7	39	9	-49
123+50.00	Fill	3.0	4	43	5	-54
123+75.00	Fill	5.2	4	47	5	-59
124+00.00	Fill	6.3	5	52	6	-65
124+25.00	Fill	2.6	4	56	5	-70

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	4

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6N-1						
6+75.00	Fill	5.3	0	0	0	0
7+00.00	Fill	2.4	4	4	5	-5
7+50.00	Fill	12.0	13	17	16	-21
7+75.00	Fill	11.4	11	28	14	-35
8+00.00	Fill	3.8	7	35	9	-44
8+25.00	Fill	8.9	6	41	8	-51
8+50.00	Fill	4.3	6	47	8	-59
8+75.00	Fill	6.5	5	52	6	-65
9+00.00	Fill	4.5	5	57	6	-71
9+25.00	Fill	8.0	6	63	8	-79
9+50.00	Fill	6.2	7	70	9	-88
9+75.00	Fill	15.6	10	80	13	-100
K6N-2						
39+25.00	Fill	12.1	22	22	28	-28
39+50.00	Fill	14.2	12	34	15	-43
39+75.00	Fill	14.4	13	47	16	-59
40+00.00	Fill	13.2	13	60	16	-75
40+25.00	Fill	12.8	12	72	15	-90
40+50.00	Fill	23.9	17	89	21	-111
40+75.00	Fill	21.7	21	110	26	-138
41+00.00	Fill	18.3	18	128	23	-160
41+25.00	Fill	18.6	17	145	21	-181
41+50.00	Fill	13.0	15	160	19	-200
41+75.00	Fill	8.0	10	170	13	-213
42+00.00	Fill	14.3	10	180	13	-225
42+25.00	Fill	18.4	15	195	19	-244
42+50.00	Fill	23.8	20	215	25	-269
42+75.00	Fill	27.2	24	239	30	-299
43+00.00	Fill	28.8	26	265	33	-331
43+25.00	Fill	27.1	26	291	33	-364
43+50.00	Fill	15.3	20	311	25	-389
43+75.00	Fill	15.0	14	325	18	-406
44+00.00	Fill	15.7	14	339	18	-424
44+25.00	Fill	16.6	15	354	19	-443
44+50.00	Fill	26.2	20	374	25	-468
44+75.00	Fill	17.7	20	394	25	-493

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6N-3						
124+00.00	Fill	1.7	0	0	0	0
124+25.00	Fill	4.8	3	3	4	-4
124+50.00	Fill	6.3	5	8	6	-10
124+75.00	Fill	6.9	6	14	8	-18
125+00.00	Fill	20.3	13	27	16	-34
125+25.00	Fill	23.0	20	47	25	-59
125+50.00	Fill	29.6	24	71	30	-89
125+75.00	Fill	26.3	26	97	33	-121
126+00.00	Fill	18.3	21	118	26	-148
126+25.00	Fill	12.4	14	132	18	-165
126+50.00	Fill	9.7	10	142	13	-178
126+75.00	Fill	10.5	9	151	11	-189
127+00.00	Fill	12.8	11	162	14	-203
127+25.00	Fill	16.0	13	175	16	-219
127+50.00	Fill	17.0	15	190	19	-238
127+75.00	Fill	18.0	16	206	20	-258
128+00.00	Fill	18.7	17	223	21	-279
128+25.00	Fill	19.7	18	241	23	-301
128+50.00	Fill	20.6	19	260	24	-325
128+75.00	Fill	21.9	20	280	25	-350
129+00.00	Fill	21.8	20	300	25	-375
129+25.00	Fill	21.9	20	320	25	-400
129+50.00	Fill	21.7	20	340	25	-425
129+75.00	Fill	23.4	21	361	26	-451
130+00.00	Fill	24.1	22	383	28	-479
130+25.00	Fill	22.5	22	405	28	-506
130+50.00	Fill	20.8	20	425	25	-531
130+75.00	Fill	9.3	14	439	18	-549
131+00.00	Fill	10.1	9	448	11	-560
131+25.00	Fill	12.1	10	458	13	-573
131+50.00	Fill	17.7	14	472	18	-590
131+75.00	Fill	11.9	14	486	18	-608
132+00.00	Fill	3.7	7	493	9	-616
132+25.00	Fill	4.6	4	497	5	-621
132+50.00	Fill	11.0	7	504	9	-630
132+75.00	Fill	11.8	11	515	14	-644
133+00.00	Fill	12.2	11	526	14	-658
133+25.00	Fill	8.4	10	536	13	-670
134+00.00	Fill	2.0	14	550	18	-688
134+25.00	Fill	5.2	3	553	4	-691
134+50.00	Fill	6.2	5	558	6	-698
134+75.00	Fill	12.1	8	566	10	-708
135+00.00	Fill	10.9	11	577	14	-721
135+25.00	Fill	9.9	10	587	13	-734
135+50.00	Fill	1.2	5	592	6	-740

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	5

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K6N-4						
141+75.00	Fill	1.8	0	0	0	0
142+00.00	Fill	6.0	4	4	5	-5
142+25.00	Fill	4.5	5	9	6	-11
142+50.00	Fill	3.6	4	13	5	-16
143+50.00	Fill	4.6	15	28	19	-35
143+75.00	Fill	4.1	4	32	5	-40
144+00.00	Fill	2.2	3	35	4	-44
144+25.00	Fill	4.0	3	38	4	-48
144+50.00	Fill	7.0	5	43	6	-54
144+75.00	Fill	7.6	7	50	9	-63
145+00.00	Fill	5.3	6	56	8	-70
145+25.00	Fill	3.5	4	60	5	-75
145+50.00	Fill	3.9	3	63	4	-79
145+75.00	Fill	2.8	3	66	4	-83
146+00.00	Fill	3.8	3	69	4	-86
146+25.00	Fill	2.0	3	72	4	-90

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	6

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K7-1						
8+00.00	Fill	5.2	0	0	0	0
8+25.00	Fill	21.6	12	12	15	-15
8+50.00	Fill	27.3	23	35	29	-44
8+75.00	Fill	28.4	26	61	33	-76
9+00.00	Fill	43.1	33	94	41	-118
9+25.00	Fill	45.2	41	135	51	-169
9+50.00	Fill	42.7	41	176	51	-220
9+75.00	Fill	48.8	42	218	53	-273
10+00.00	Fill	54.4	48	266	60	-333
10+25.00	Fill	58.1	52	318	65	-398
10+50.00	Fill	56.6	53	371	66	-464
10+75.00	Fill	54.8	52	423	65	-529
11+00.00	Fill	49.0	48	471	60	-589
11+25.00	Fill	46.0	44	515	55	-644
11+50.00	Fill	48.3	44	559	55	-699
11+75.00	Fill	52.4	47	606	59	-758
12+00.00	Fill	23.2	35	641	44	-801
12+25.00	Fill	34.8	27	668	34	-835
12+50.00	Fill	61.2	44	712	55	-890
12+75.00	Fill	66.8	59	771	74	-964
13+00.00	Fill	56.2	57	828	71	-1,035
13+25.00	Fill	52.1	50	878	63	-1,098
13+50.00	Fill	24.8	36	914	45	-1,143
K7-2						
62+00.00	Fill	9.4	0	0	0	0
62+25.00	Fill	17.6	13	13	16	-16
62+50.00	Fill	29.1	22	35	28	-44
62+75.00	Fill	33.0	29	64	36	-80
63+00.00	Fill	39.6	34	98	43	-123
63+25.00	Fill	44.7	39	137	49	-171
63+50.00	Fill	34.5	37	174	46	-218
63+75.00	Fill	32.3	31	205	39	-256
64+00.00	Fill	37.0	32	237	40	-296
64+25.00	Fill	40.1	36	273	45	-341
64+50.00	Fill	17.9	27	300	34	-375
64+75.00	Fill	7.7	12	312	15	-390

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K7-3						
69+25.00	Fill	18.6	0	0	0	0
69+50.00	Fill	32.9	24	24	30	-30
69+75.00	Fill	31.8	30	54	38	-68
70+00.00	Fill	31.5	29	83	36	-104
70+25.00	Fill	32.6	30	113	38	-141
70+50.00	Fill	17.5	23	136	29	-170
70+75.00	Fill	12.1	14	150	18	-188
71+00.00	Fill	12.4	11	161	14	-201
71+25.00	Fill	14.2	12	173	15	-216
71+50.00	Fill	26.2	19	192	24	-240
71+75.00	Fill	45.7	33	225	41	-281
72+00.00	Fill	46.9	43	268	54	-335
72+25.00	Fill	47.8	44	312	55	-390
72+50.00	Fill	46.2	44	356	55	-445
72+75.00	Fill	29.8	35	391	44	-489
73+00.00	Fill	18.8	22	413	28	-516
73+25.00	Fill	18.1	17	430	21	-538
73+50.00	Fill	17.4	16	446	20	-558
73+75.00	Fill	13.1	14	460	18	-575
74+00.00	Fill	13.9	13	473	16	-591
74+25.00	Fill	15.1	13	486	16	-608
74+50.00	Fill	11.2	12	498	15	-623
74+75.00	Fill	9.2	9	507	11	-634
75+00.00	Fill	6.2	7	514	9	-643
75+25.00	Fill	6.8	6	520	8	-650
K7-4						
97+50.00	Fill	3.2	0	0	0	0
97+75.00	Fill	5.5	4	4	5	-5
98+00.00	Fill	9.6	7	11	9	-14
98+25.00	Fill	18.3	13	24	16	-30
98+50.00	Fill	15.8	16	40	20	-50
98+75.00	Fill	29.1	21	61	26	-76
99+00.00	Fill	31.6	28	89	35	-111
99+25.00	Fill	30.0	29	118	36	-148
99+50.00	Fill	35.8	30	148	38	-185
99+75.00	Fill	48.0	39	187	49	-234
100+00.00	Fill	32.9	37	224	46	-280
100+25.00	Fill	27.2	28	252	35	-315
100+50.00	Fill	34.5	29	281	36	-351
100+75.00	Fill	40.1	35	316	44	-395
101+00.00	Fill	43.0	38	354	48	-443
101+25.00	Fill	58.7	47	401	59	-501
101+50.00	Fill	63.2	56	457	70	-571
101+75.00	Fill	67.4	60	517	75	-646
102+00.00	Fill	47.1	53	570	66	-713
102+25.00	Fill	12.7	28	598	35	-748

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	7

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K7-5						
106+50.00	Fill	14.8	0	0	0	0
106+75.00	Fill	18.0	15	15	19	-19
107+00.00	Fill	24.6	20	35	25	-44
107+25.00	Fill	21.6	21	56	26	-70
107+50.00	Fill	11.2	15	71	19	-89
107+75.00	Fill	7.4	9	80	11	-100
108+00.00	Fill	5.0	6	86	8	-108
K7-6						
111+50.00	Fill	2.3	0	0	0	0
111+75.00	Fill	7.0	4	4	5	-5
112+00.00	Fill	8.2	7	11	9	-14
112+25.00	Fill	8.5	8	19	10	-24
112+50.00	Fill	6.9	7	26	9	-33
112+75.00	Fill	5.0	6	32	8	-40
113+00.00	Fill	11.4	8	40	10	-50
113+25.00	Fill	6.1	8	48	10	-60
K7-7						
150+75.00	Fill	5.3	0	0	0	0
151+00.00	Fill	13.5	9	9	11	-11
151+25.00	Fill	14.3	13	22	16	-28
151+50.00	Fill	13.1	13	35	16	-44
151+75.00	Fill	16.8	14	49	18	-61
152+00.00	Fill	21.5	18	67	23	-84
152+25.00	Fill	5.9	13	80	16	-100
K7-8						
168+00.00	Fill	3.5	0	0	0	0
168+25.00	Fill	3.2	3	3	4	-4
168+50.00	Fill	4.2	3	6	4	-8
168+75.00	Fill	2.2	3	9	4	-11
169+00.00	Fill	2.1	2	11	3	-14
169+25.00	Fill	2.5	2	13	3	-16
169+50.00	Fill	2.2	2	15	3	-19
169+75.00	Fill	1.4	2	17	3	-21
170+00.00	Fill	0.8	1	18	1	-23
170+25.00	Fill	1.4	1	19	1	-24
170+50.00	Fill	2.3	2	21	3	-26
172+00.00	Fill	2.2	12	33	15	-41
172+25.00	Fill	2.2	2	35	3	-44
172+50.00	Fill	2.3	2	37	3	-46

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K7-9						
197+25.00	Fill	3.5	0	0	0	0
197+50.00	Fill	7.8	5	5	6	-6
197+75.00	Fill	4.3	6	11	8	-14
198+00.00	Fill	1.2	3	14	4	-18
199+00.00	Fill	2.7	7	21	9	-26
199+25.00	Fill	5.7	4	25	5	-31
201+00.00	Fill	2.2	25	50	31	-63
201+25.00	Fill	8.7	5	55	6	-69
201+50.00	Fill	18.1	12	67	15	-84
201+75.00	Fill	24.1	20	87	25	-109
202+00.00	Fill	20.5	21	108	26	-135
202+25.00	Fill	11.3	15	123	19	-154
202+50.00	Fill	2.1	6	129	8	-161
K7-10						
273+50.00	Fill	3.9	0	0	0	0
273+75.00	Fill	5.3	4	4	5	-5
274+00.00	Fill	3.8	4	8	5	-10
274+25.00	Fill	4.6	4	12	5	-15
274+50.00	Fill	8.1	6	18	8	-23
274+75.00	Fill	7.9	7	25	9	-31
275+00.00	Fill	7.3	7	32	9	-40
275+25.00	Fill	7.7	7	39	9	-49
275+50.00	Fill	7.5	7	46	9	-58
275+75.00	Fill	7.4	7	53	9	-66
276+00.00	Fill	6.9	7	60	9	-75
276+25.00	Fill	1.6	4	64	5	-80

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Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	11	8

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K10-1						
8+50	Fill	3.7	0	0	0	0
8+75	Fill	5.9	4	4	5	-5
9+00	Fill	11.0	8	12	10	-15
9+25	Fill	16.5	13	25	16	-31
9+50	Fill	15.9	15	40	19	-50
9+75	Fill	15.2	14	54	18	-68
10+00	Fill	15.8	14	68	18	-85
10+25	Fill	21.5	17	85	21	-106
10+50	Fill	24.2	21	106	26	-133
10+75	Fill	23.9	22	128	28	-160
11+00	Fill	20.2	20	148	25	-185
11+25	Fill	18.9	18	166	23	-208
11+50	Fill	18.9	18	184	23	-230
11+75	Fill	17.9	17	201	21	-251
12+00	Fill	30.1	22	223	28	-279
12+25	Fill	44.9	35	258	44	-323
12+50	Fill	42.5	40	298	50	-373
12+75	Fill	40.5	38	336	48	-420
13+00	Fill	41.2	38	374	48	-468
13+25	Fill	48.9	42	416	53	-520
13+50	Fill	37.7	40	456	50	-570
13+75	Fill	33.0	33	489	41	-611
14+00	Fill	41.6	35	524	44	-655
14+25	Fill	45.7	40	564	50	-705
14+50	Fill	35.8	38	602	48	-753

*An additional colume of 25% out of water and 50% in water has been used to allow for shrinkage in permanent embankment.

Station	Material	End Area (SF)	Vol. (CY)	Accum. Vol. (CY)	Adj. Vol. (CY*)	Adj. Accum. Vol. (CY)
K10-2						
78+00	Fill	10.5	0	0	0	0
78+25	Fill	21.3	15	15	19	-19
78+50	Fill	19.8	19	34	24	-43
78+75	Fill	13.0	15	49	19	-61
79+00	Fill	7.6	10	59	13	-74
79+25	Fill	8.5	7	66	9	-83
79+50	Fill	10.4	9	75	11	-94
80+00	Fill	6.8	16	91	20	-114
80+25	Fill	13.5	9	100	11	-125
80+50	Fill	15.3	13	113	16	-141
80+75	Fill	15.4	14	127	18	-159
81+00	Fill	15.5	14	141	18	-176
81+25	Fill	15.9	15	156	19	-195
81+50	Fill	21.3	17	173	21	-216
81+75	Fill	28.8	23	196	29	-245
82+00	Fill	33.1	29	225	36	-281
82+25	Fill	34.8	31	256	39	-320
82+50	Fill	24.7	28	284	35	-355
82+75	Fill	32.9	27	311	34	-389
83+00	Fill	30.1	29	340	36	-425
83+25	Fill	17.7	22	362	28	-453
83+50	Fill	18.4	17	379	21	-474
83+75	Fill	20.2	18	397	23	-496
84+00	Fill	23.0	20	417	25	-521
84+25	Fill	21.0	20	437	25	-546
84+50	Fill	10.6	15	452	19	-565
84+75	Fill	2.6	6	458	8	-573

K10-3						
102+00	Fill	5.5	0	0	0	0
102+25	Fill	14.7	9	9	11	-11
102+50	Fill	12.6	13	22	16	-28
102+75	Fill	16.0	13	35	16	-44
103+00	Fill	21.1	17	52	21	-65
103+25	Fill	7.5	13	65	16	-81
103+50	Fill	4.6	6	71	8	-89

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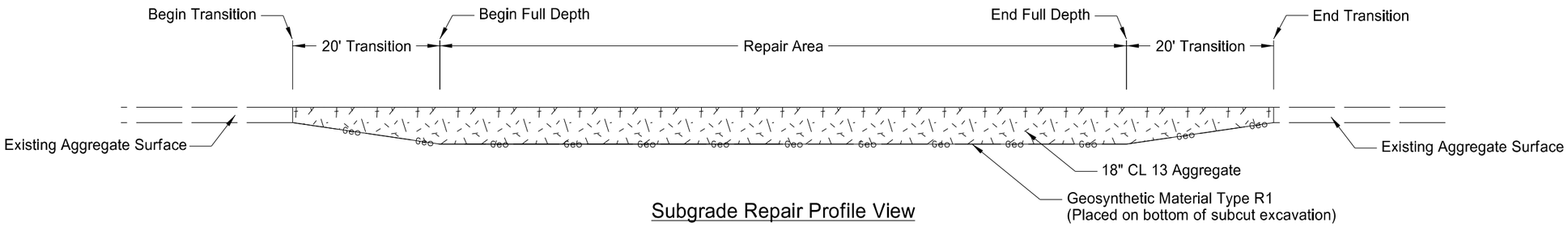
Earthwork Data Table

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	20	4



Subgrade Repair Profile View

Subcut Repair Summary

Site	Begin Transition	Begin Full Depth	End Full Depth	End Transition	Offset	Width (Ft)	Subcut Full Depth Length (Ft)	Subcut Depth (In)	Common Exc. Subcut (CY)	Geosynthetic Material Type R1 (SY)	Aggregate Surface Course CL 13 (1.875 Tons/CY)
K6S-1	6+60	6+80	7+80	8+00	RT	8	100	18	54	125	101
K6S-6	55+30	55+50	57+50	57+70	RT	8	200	18	98	214	184
	57+80	58+00	59+00	59+20	RT	8	100	18	54	125	101
K6S-8	103+80	104+00	105+00	105+20	RT	8	100	18	54	125	101
								Total	**260**	**589**	**487**

Engineers Discretion

Taper (Ft)	Length (Ft)	Width (Ft)	Subcut Depth (In)	Common Exc. Subcut (CY)	Geosynthetic Material Type R1 (SY)	Aggregate Surface Course CL 13 (1.875 Tons/CY)
20	500	8	18	232	480	435

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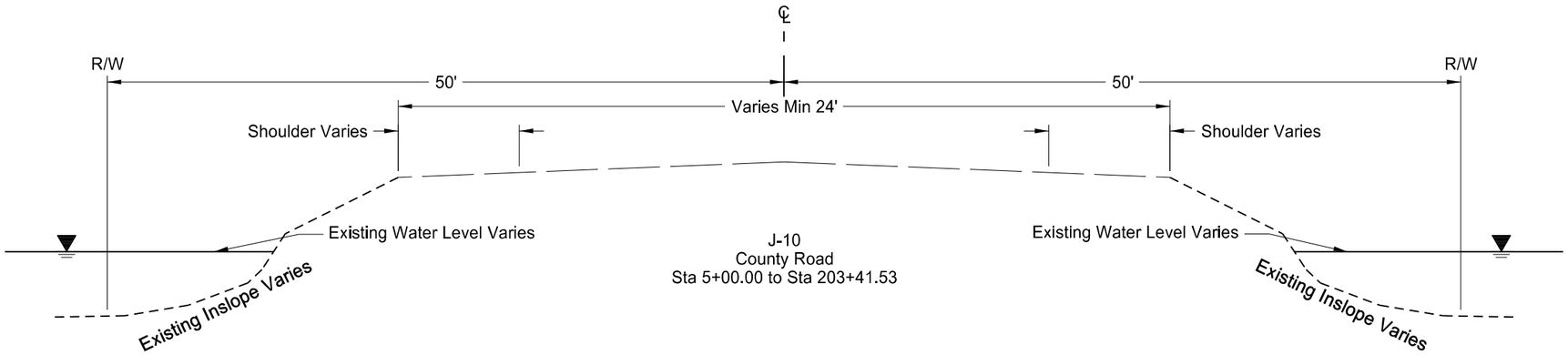
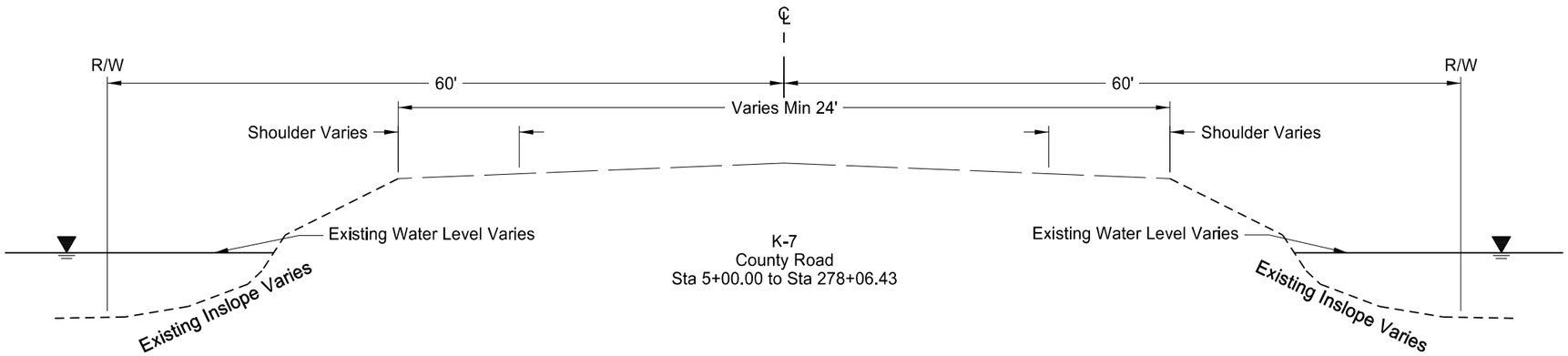
Subcut Repair Detail

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	30	1

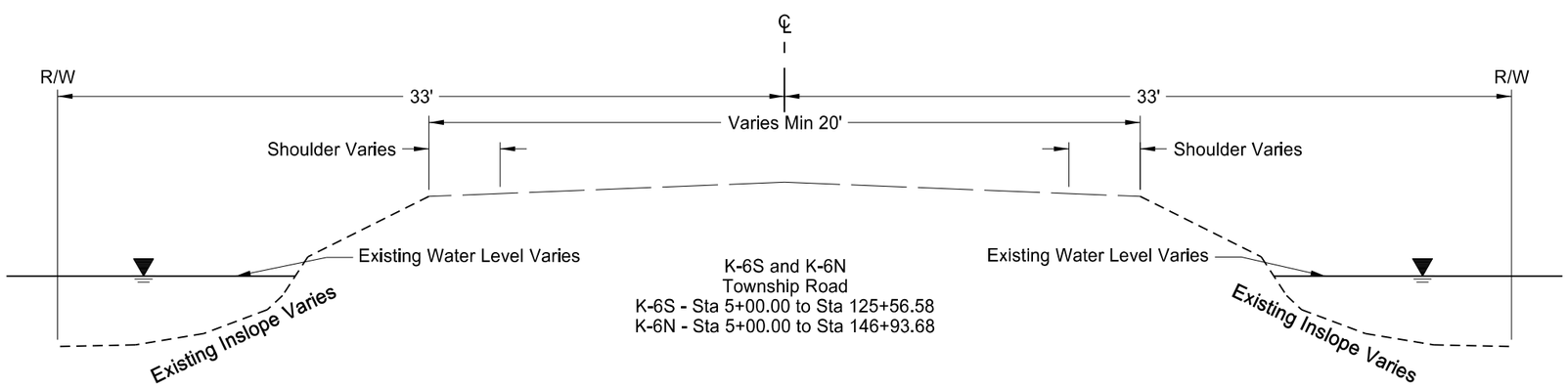
Note: Water levels will vary, those provided are as of 6/1/17.



J-10
County Road
Sta 5+00.00 to Sta 203+41.53



K-7
County Road
Sta 5+00.00 to Sta 278+06.43



K-6S and K-6N
Township Road
K-6S - Sta 5+00.00 to Sta 125+56.58
K-6N - Sta 5+00.00 to Sta 146+93.68

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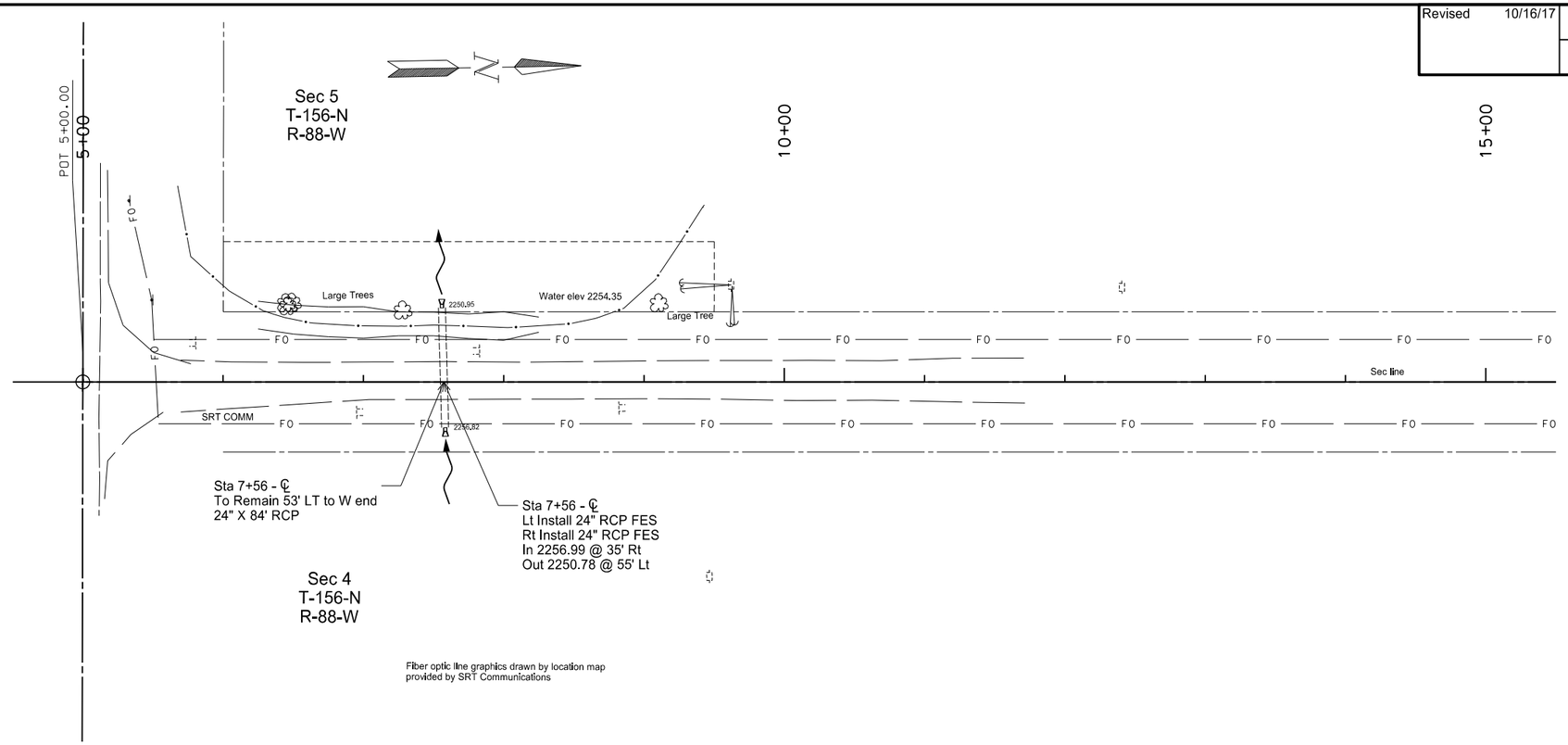
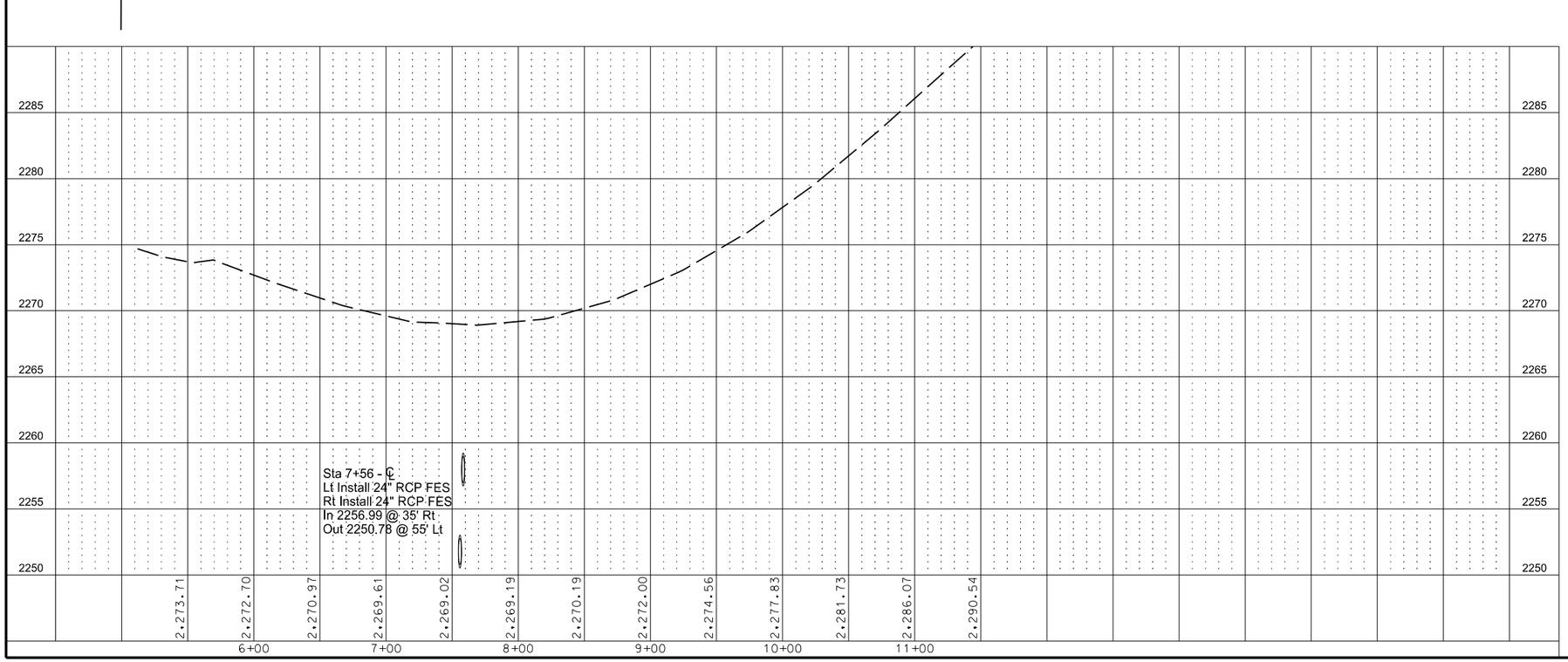
Existing Typical Sections

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	1



Fiber optic line graphics drawn by location map provided by SRT Communications



END SECT-CONC REINF 24IN

	Qty
Sta 7+56	2 EA

REMOVAL OF TREES 10IN

	Qty
Sta 6+46 LT	2 EA
Sta 7+28 LT	1 EA

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J10-1

Mountrail County

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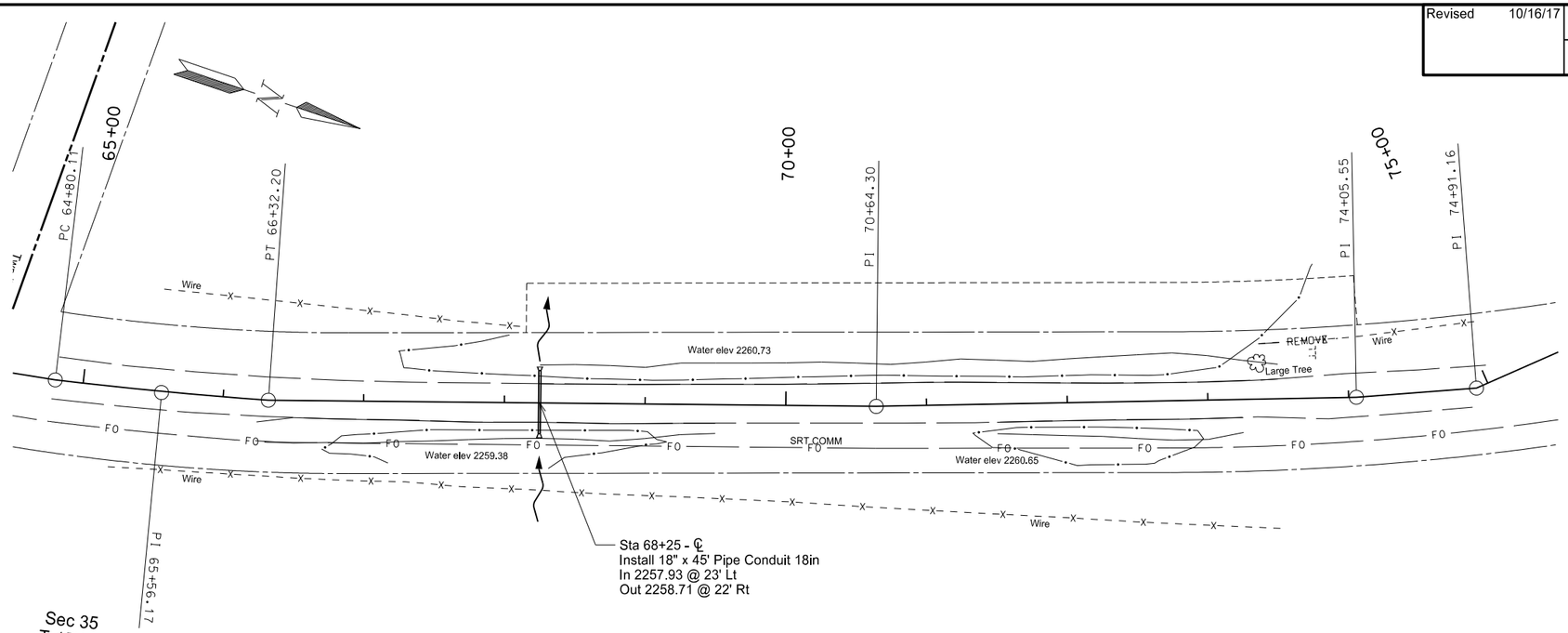
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	2

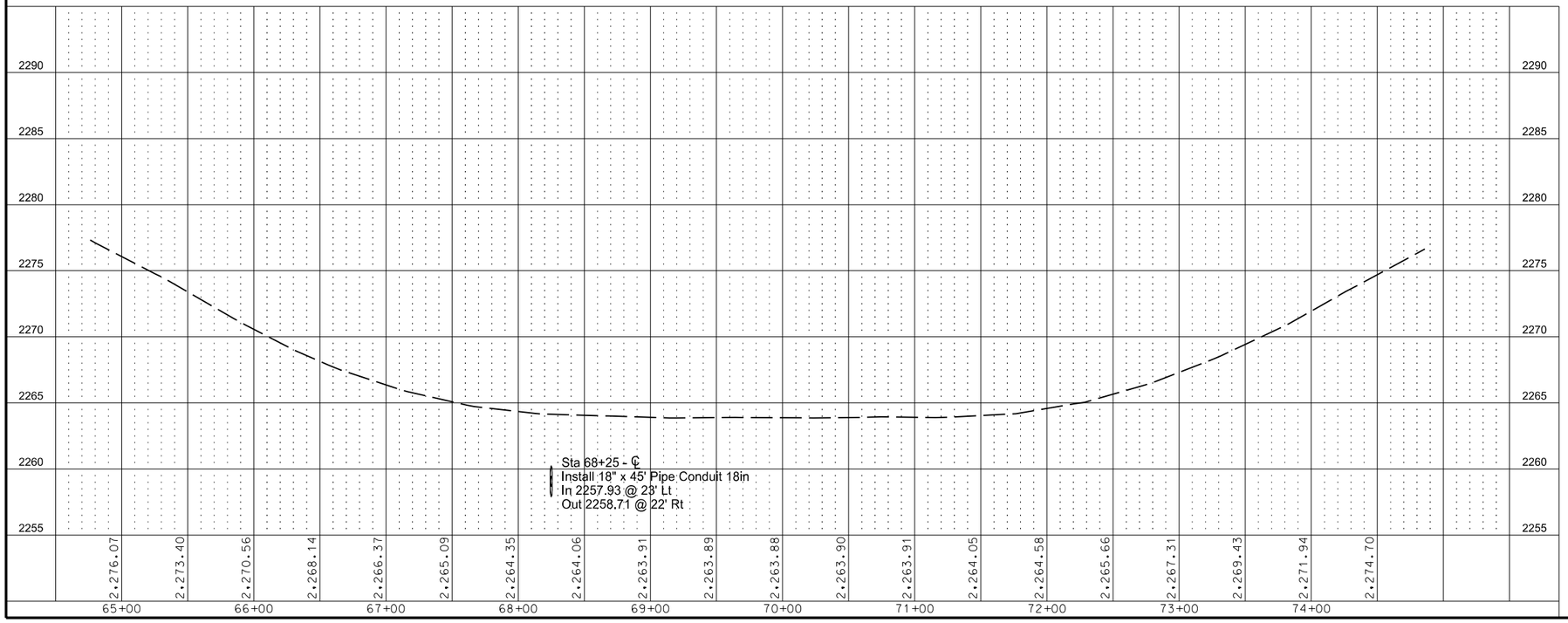


Fiber optic line graphics drawn by location map provided by SRT Communications

REMOVAL OF TREES 10IN	Qty
Sta 73+35 LT	1 EA

REMOVE EXISTING FENCE	Qty
Sta 73+36 LT to 73+93 LT	57 LF

PIPE CONDUIT 18IN	Qty
Sta 68+25	45 LF



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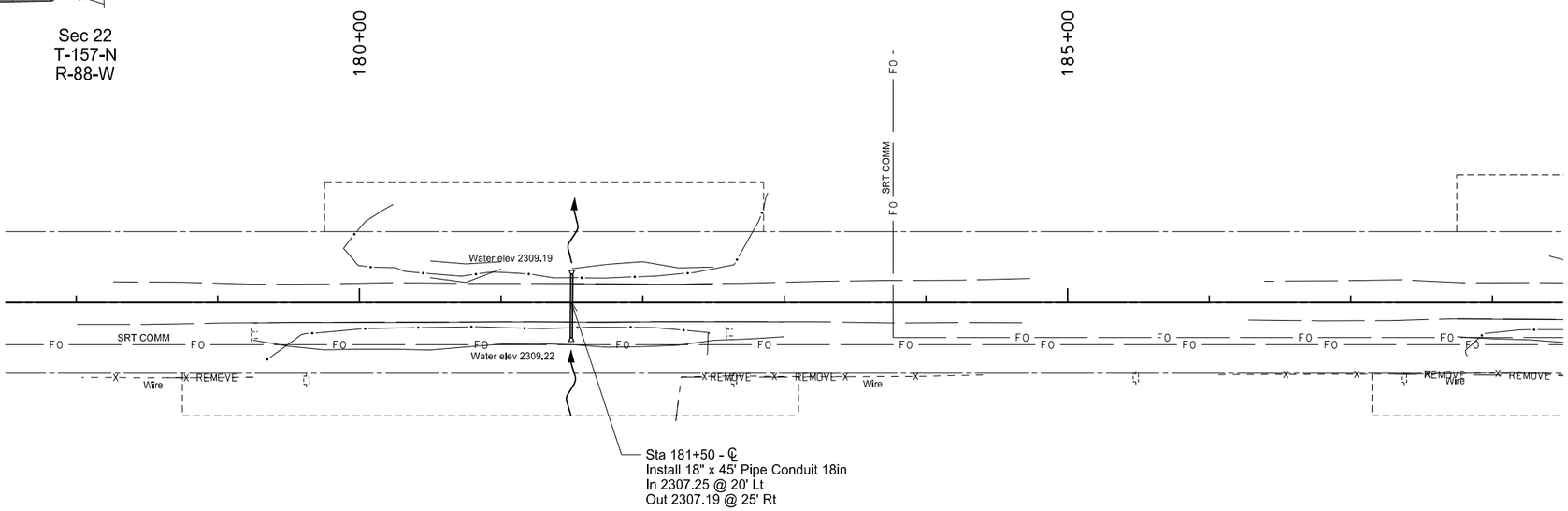
J10-2

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	3

Sec 22
T-157-N
R-88-W



Sec 23
T-157-N
R-88-W

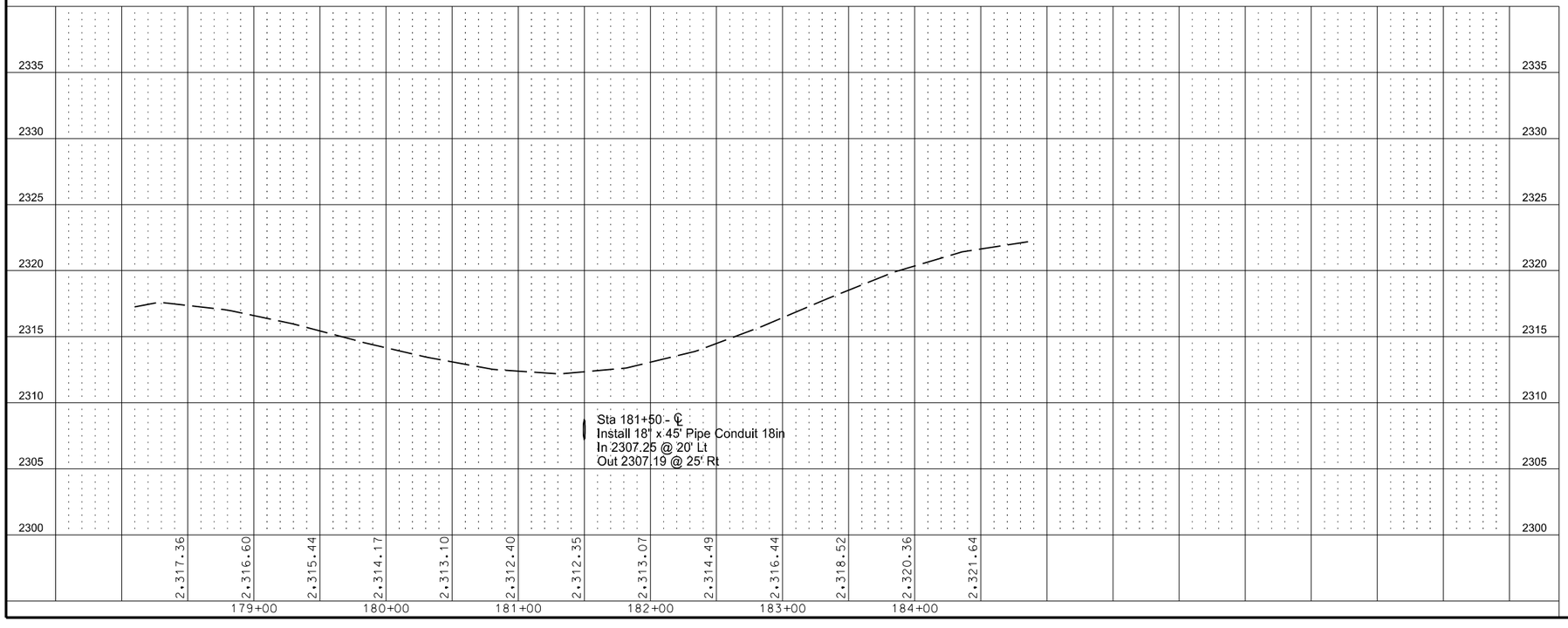
Fiber optic line graphics drawn by location map provided by SRT Communications

REMOVE EXISTING FENCE

	Qty
Sta 178+65 RT to 179+25 RT	60 LF
Sta 182+23 RT to 183+45 RT	122 LF

PIPE CONDUIT 18IN

	Qty
Sta 181+50	45 LF



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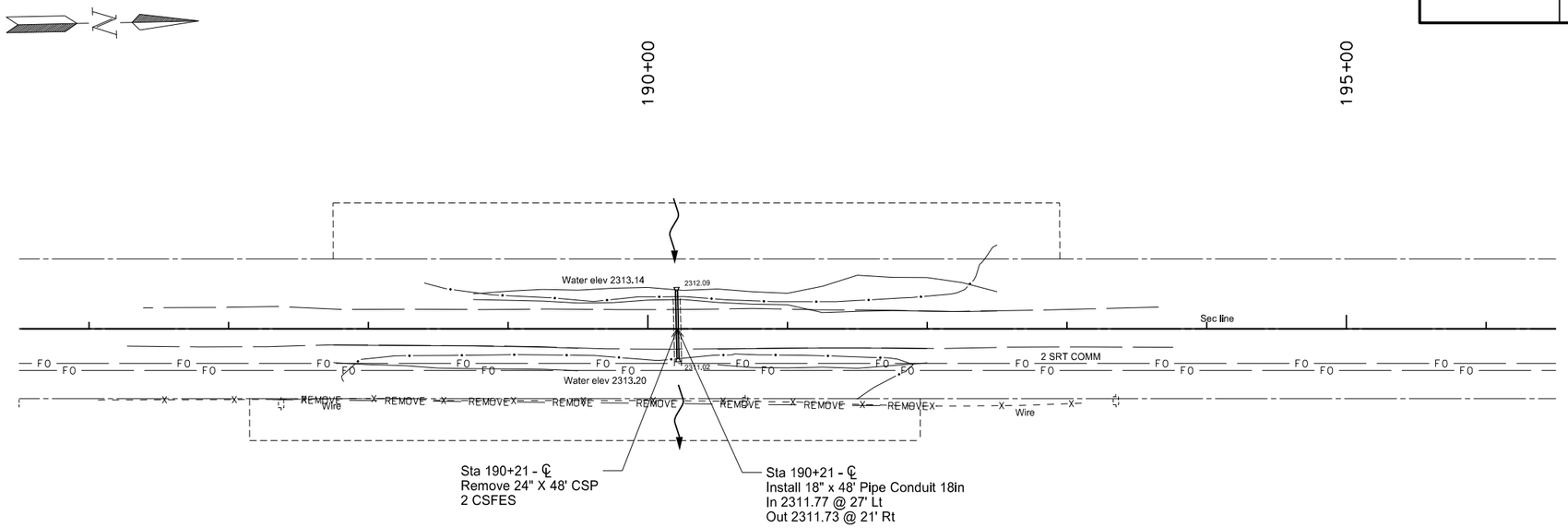
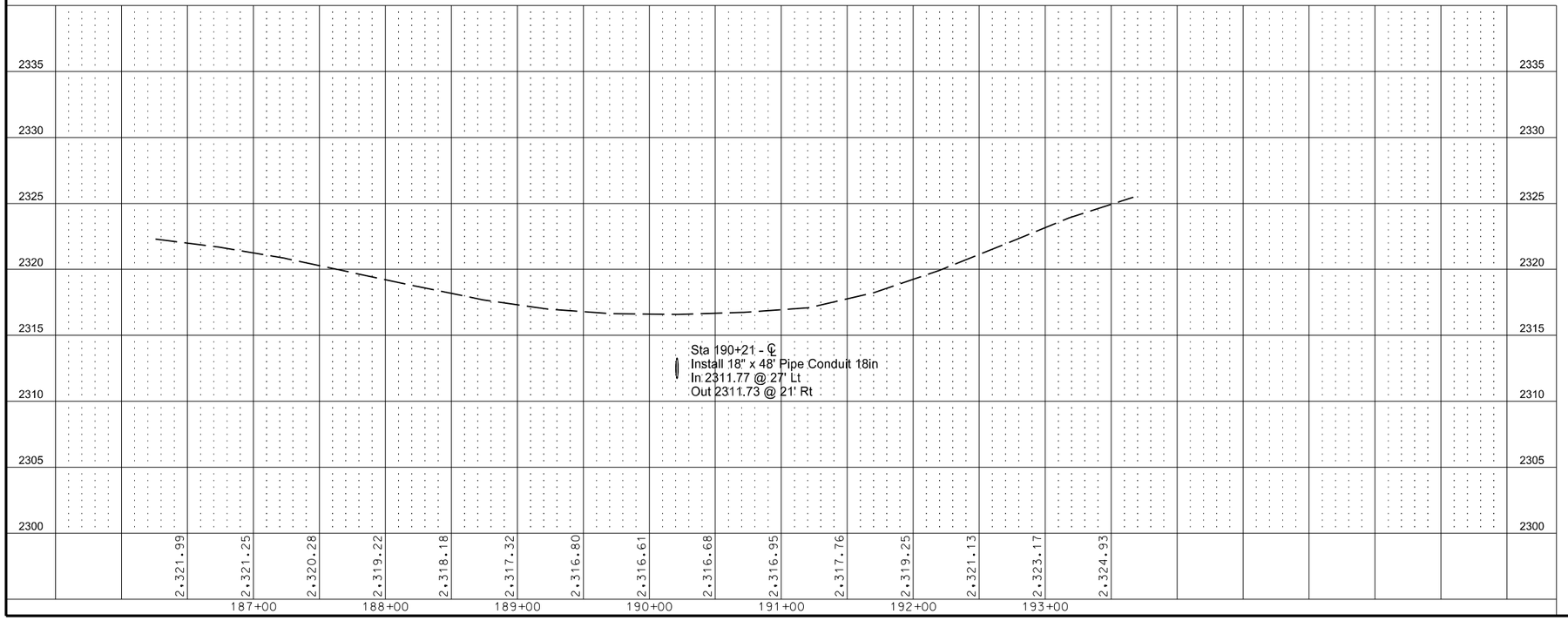
J10-3

Mountrail County

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	60	4



Fiber optic line graphics drawn by location map provided by SRT Communications



REMOVAL OF PIPE ALL TYPES AND SIZES

	Qty
Sta 190+21	48 LF

REMOVE EXISTING FENCE

	Qty
Sta 187+31 RT to 192+08 RT	477 LF

PIPE CONDUIT 18IN

	Qty
Sta 190+21	48 LF

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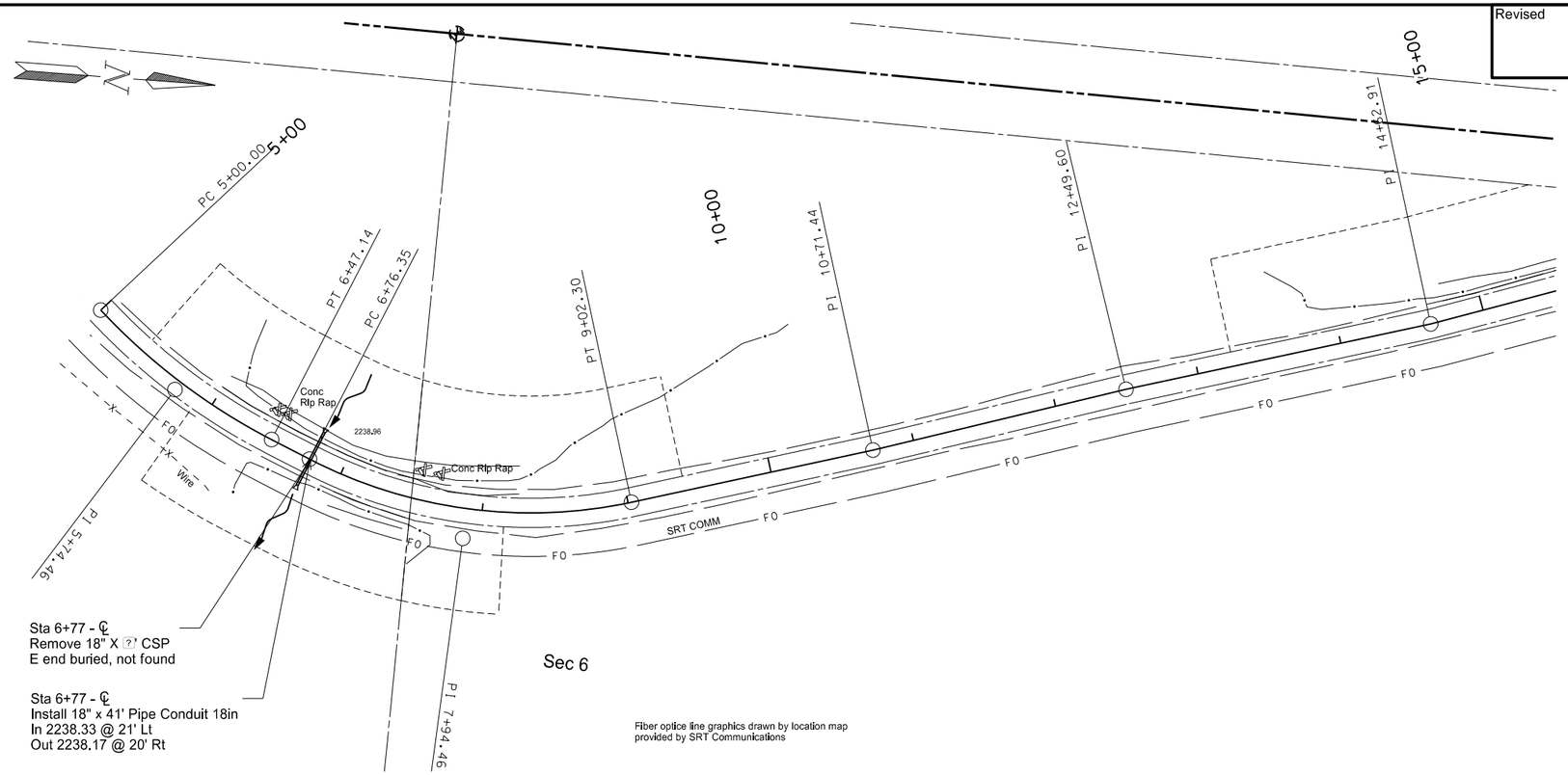
J10-4

Mountrail County

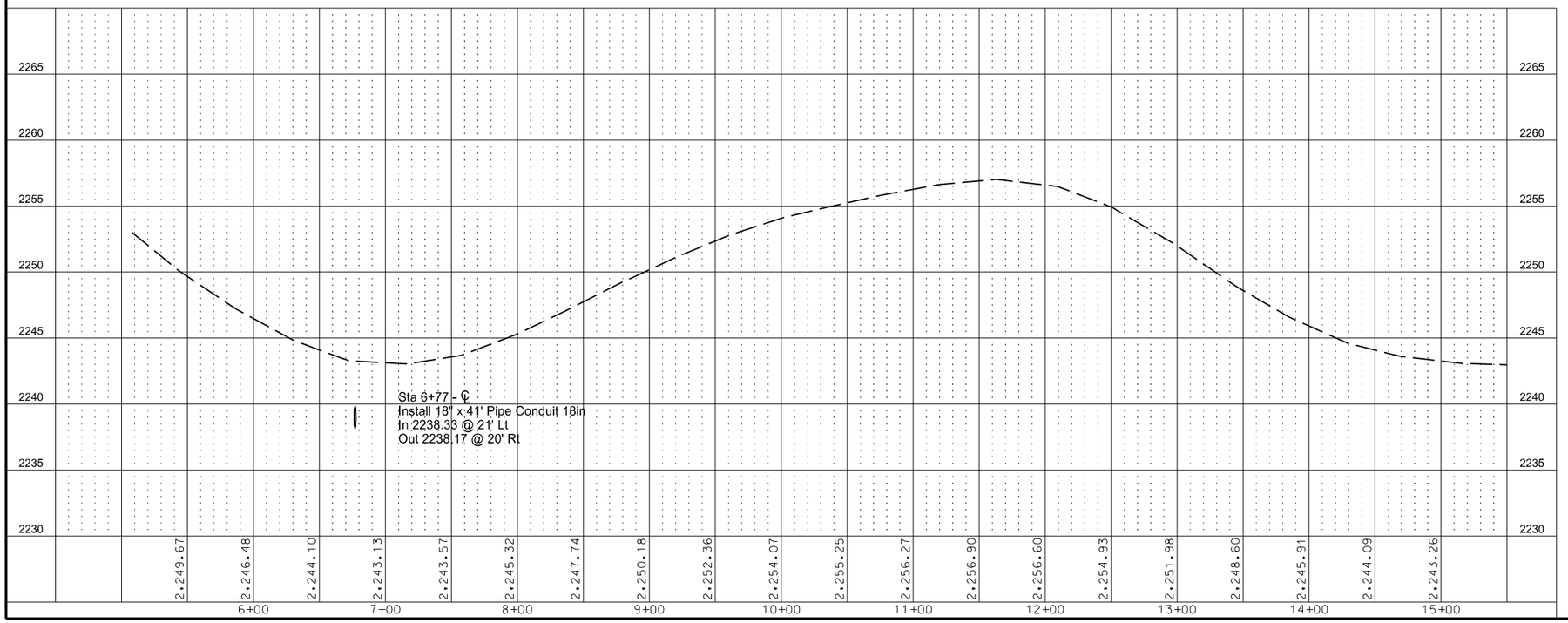
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	5



REMOVAL OF PIPE ALL TYPES AND SIZES — Qty
Sta 6+77 — 40 LF

REMOVAL OF RIPRAP - LOOSE ROCK — Qty
Sta 6+05 LT to 8+17 LT — 47 CY

PIPE CONDUIT 18IN — Qty
Sta 6+77 — 41 LF



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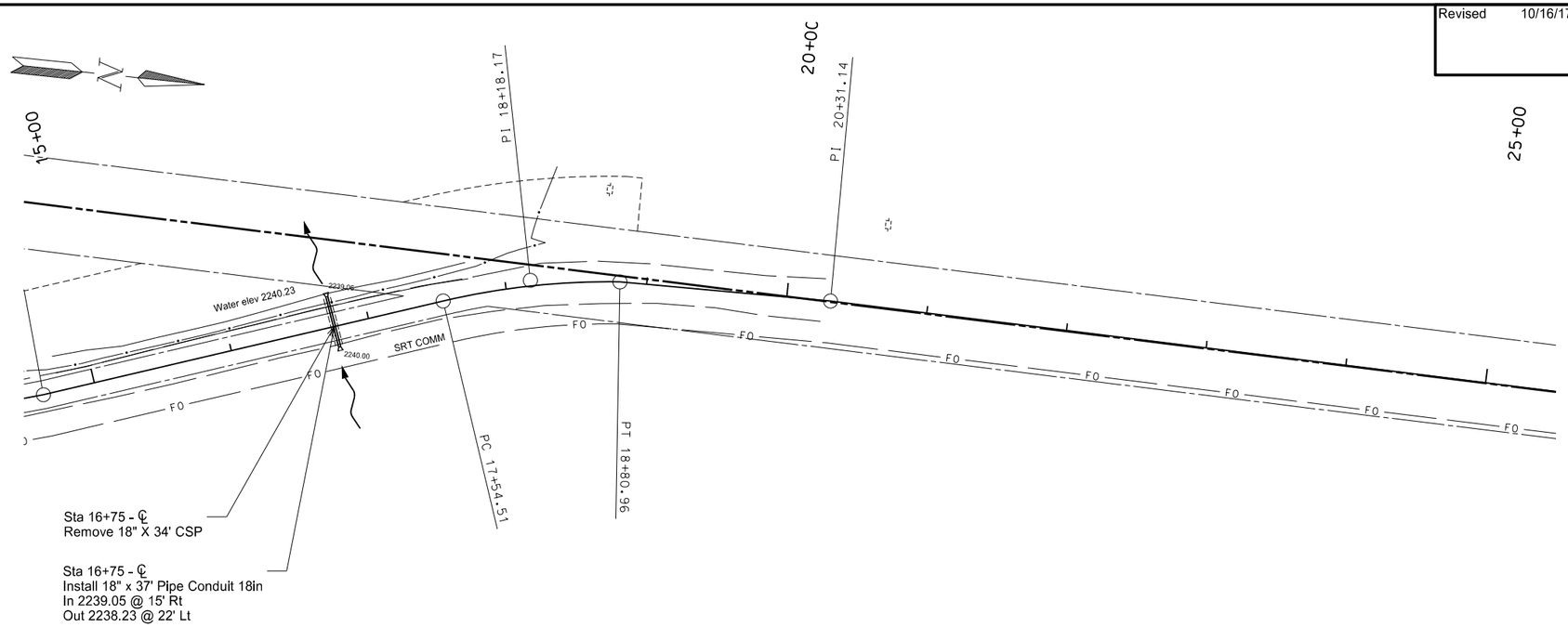
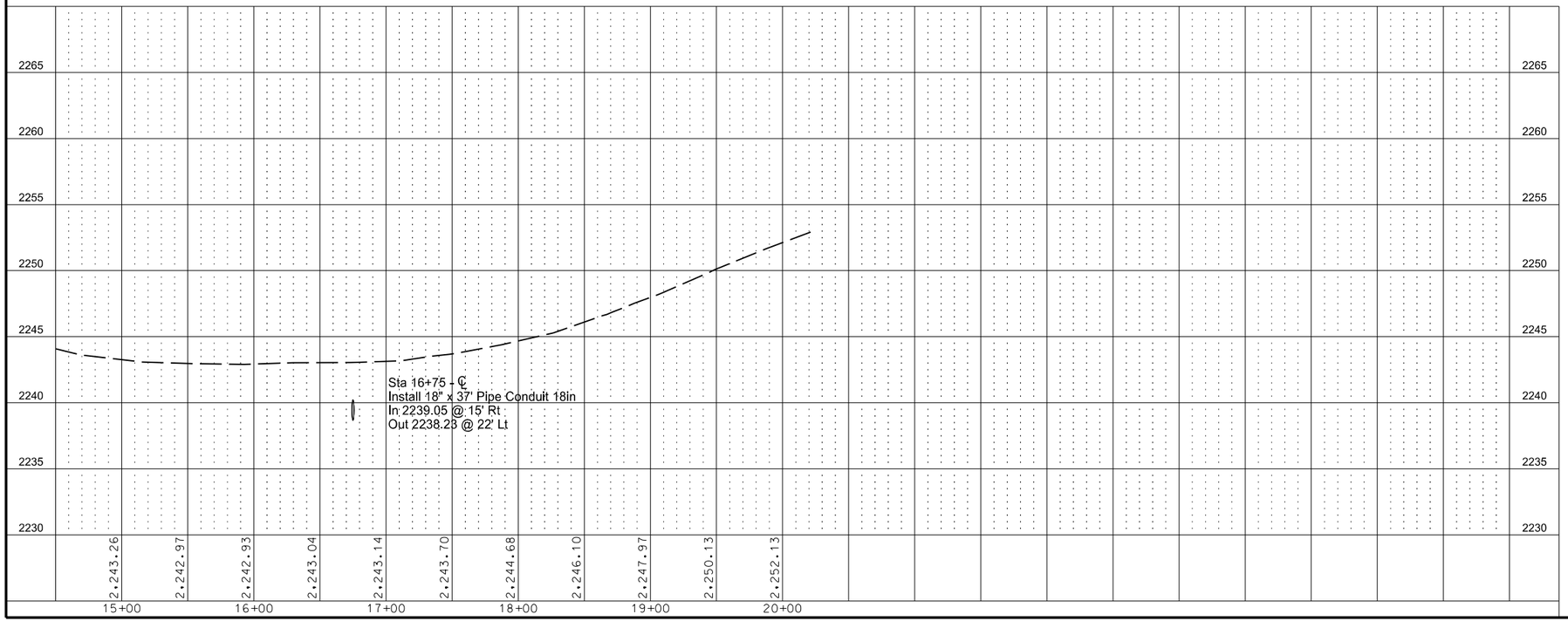
K6S-1 & K6S-2

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	6



Fiber optic line graphics drawn by location map
provided by SRT Communications



REMOVAL OF PIPE ALL TYPES AND SIZES

	Qty
Sta 16+75	34 LF

PIPE CONDUIT 18IN

	Qty
Sta 16+75	37 LF

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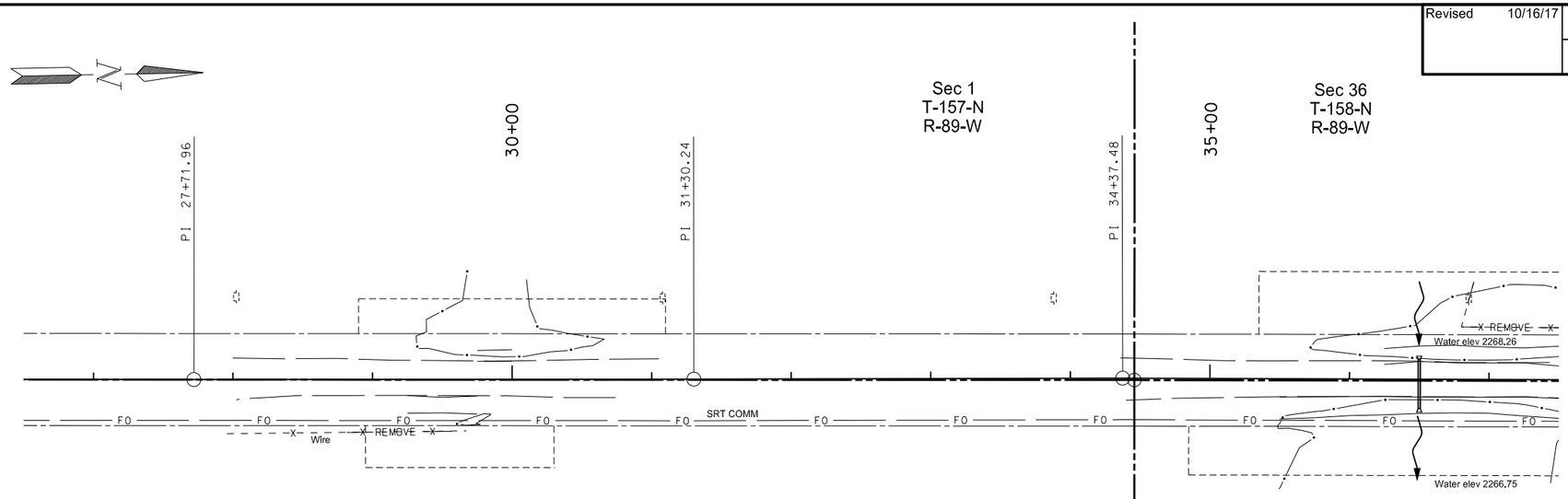
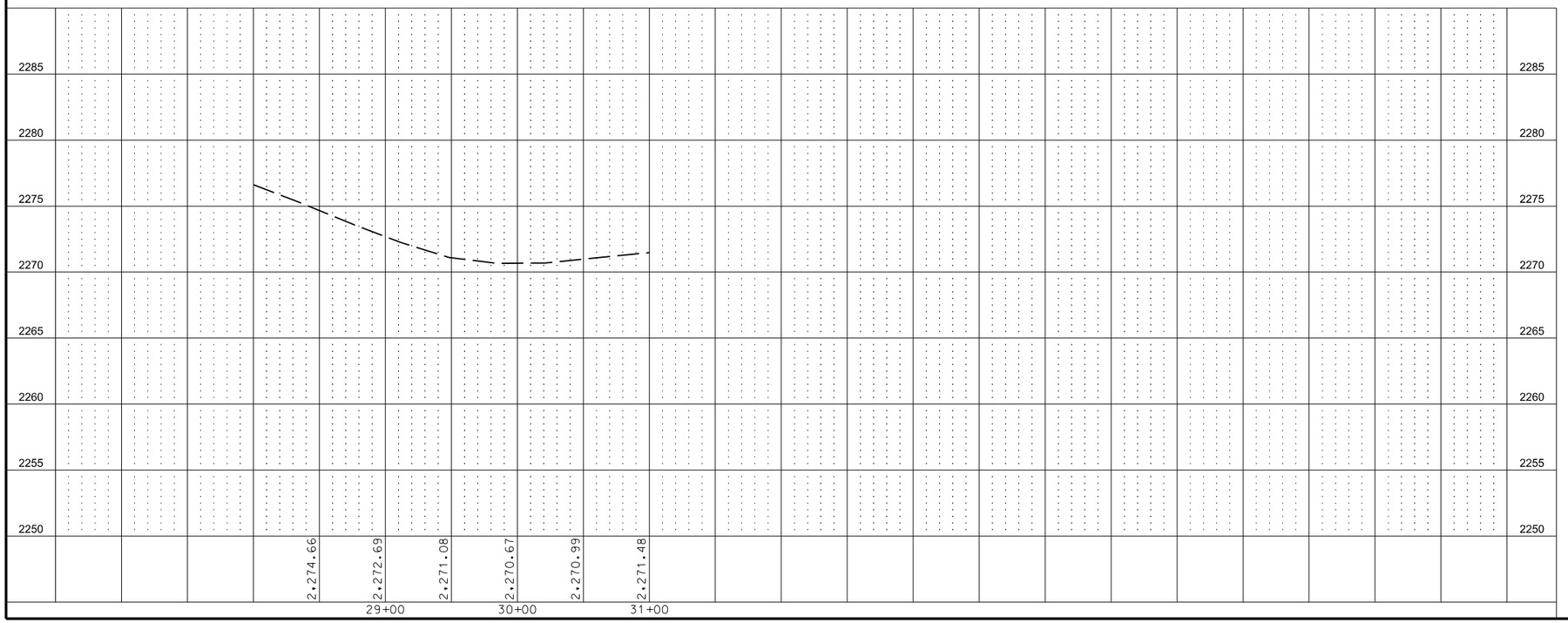
K6S-2

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	7



Fiber optic line graphics drawn by location map provided by SRT Communications



REMOVE EXISTING FENCE — Qty
Sta 28+21 RT to 29+67 RT — 146 LF

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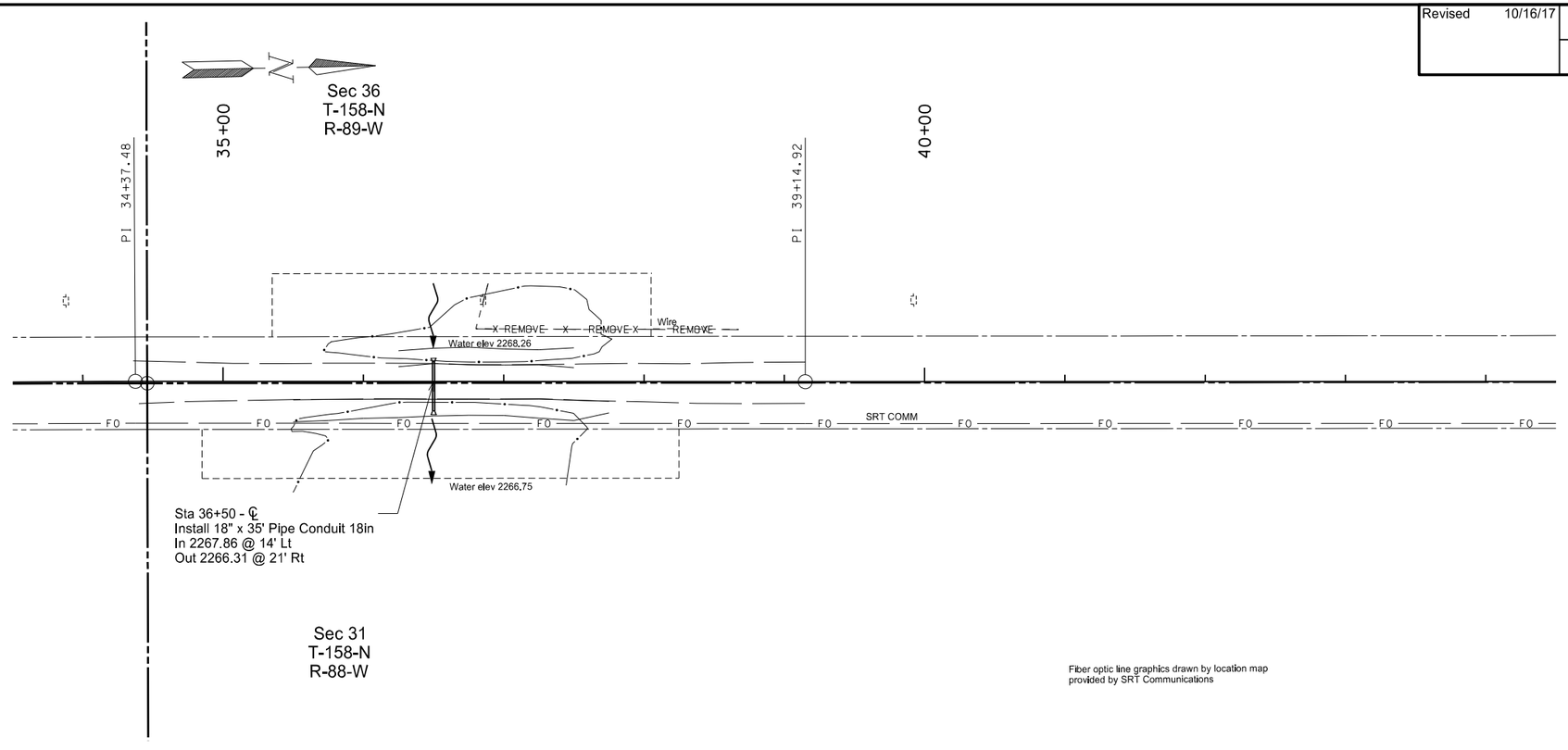
K6S-3

Mountrail County

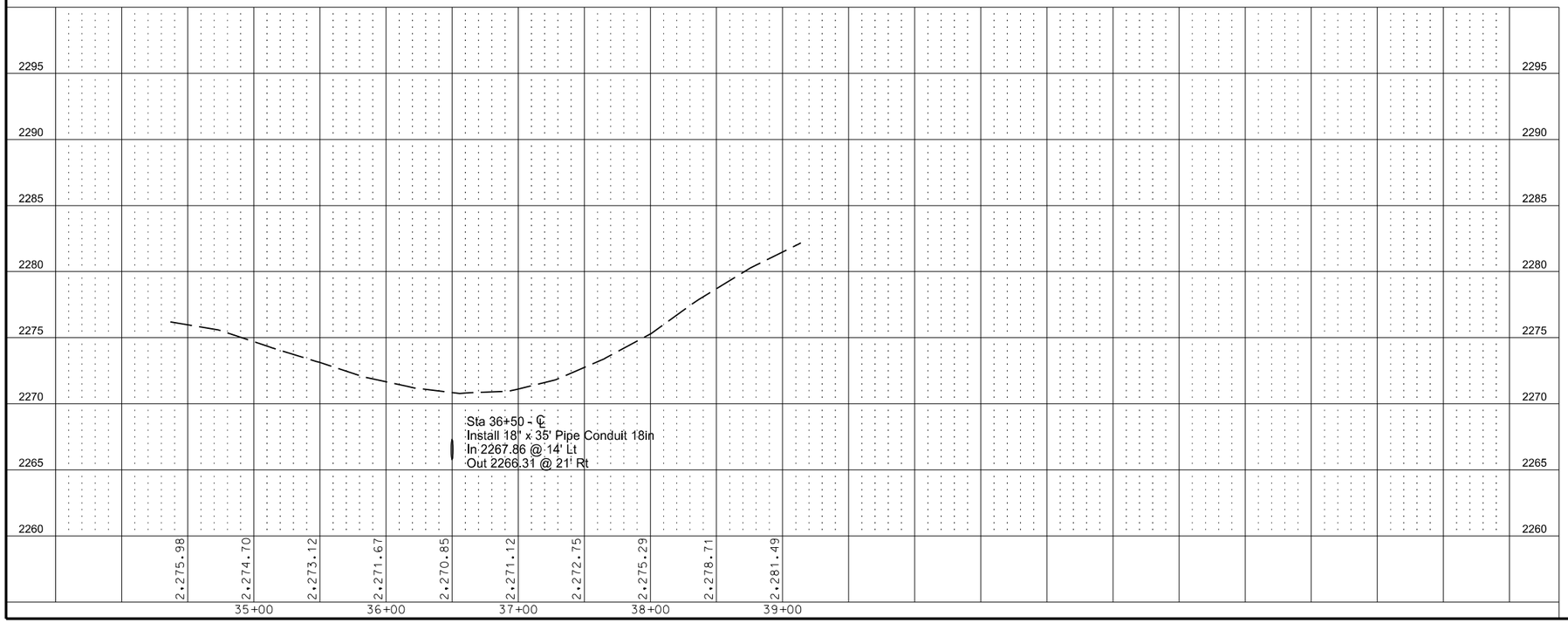
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	8



Fiber optic line graphics drawn by location map provided by SRT Communications

REMOVE EXISTING FENCE — Qty
Sta 36+80 LT to 38+67 LT — 221 LF

PIPE CONDUIT 18IN — Qty
Sta 36+50 — 35 LF



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K6S-4

Mountrail County

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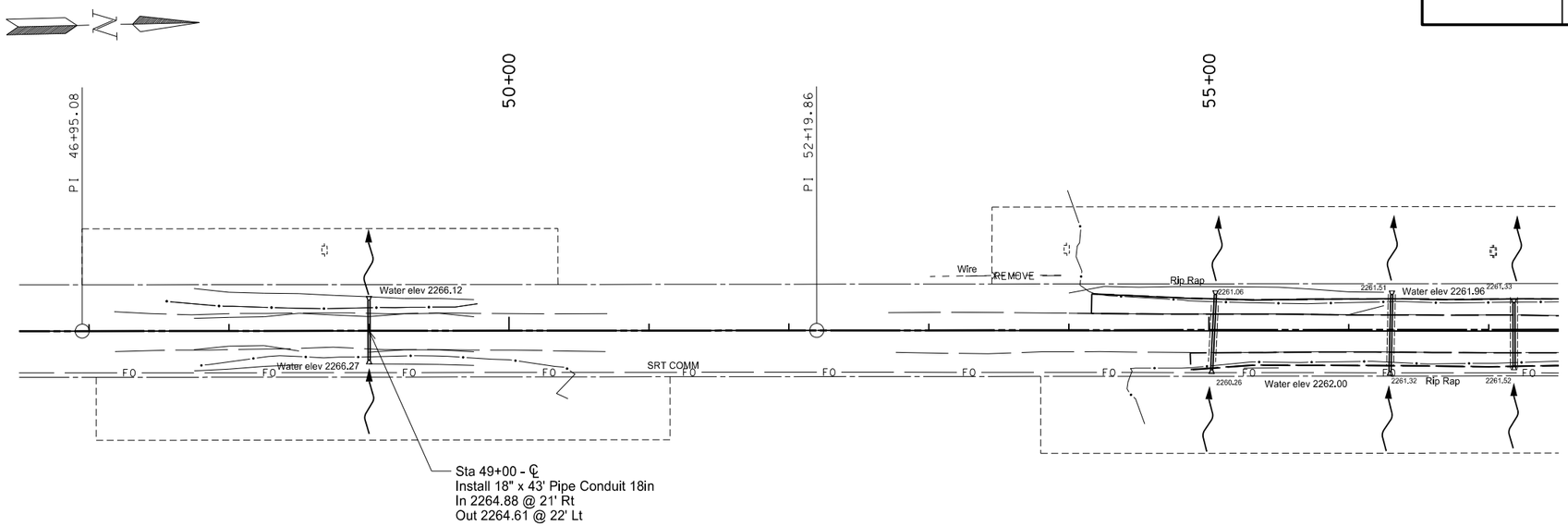
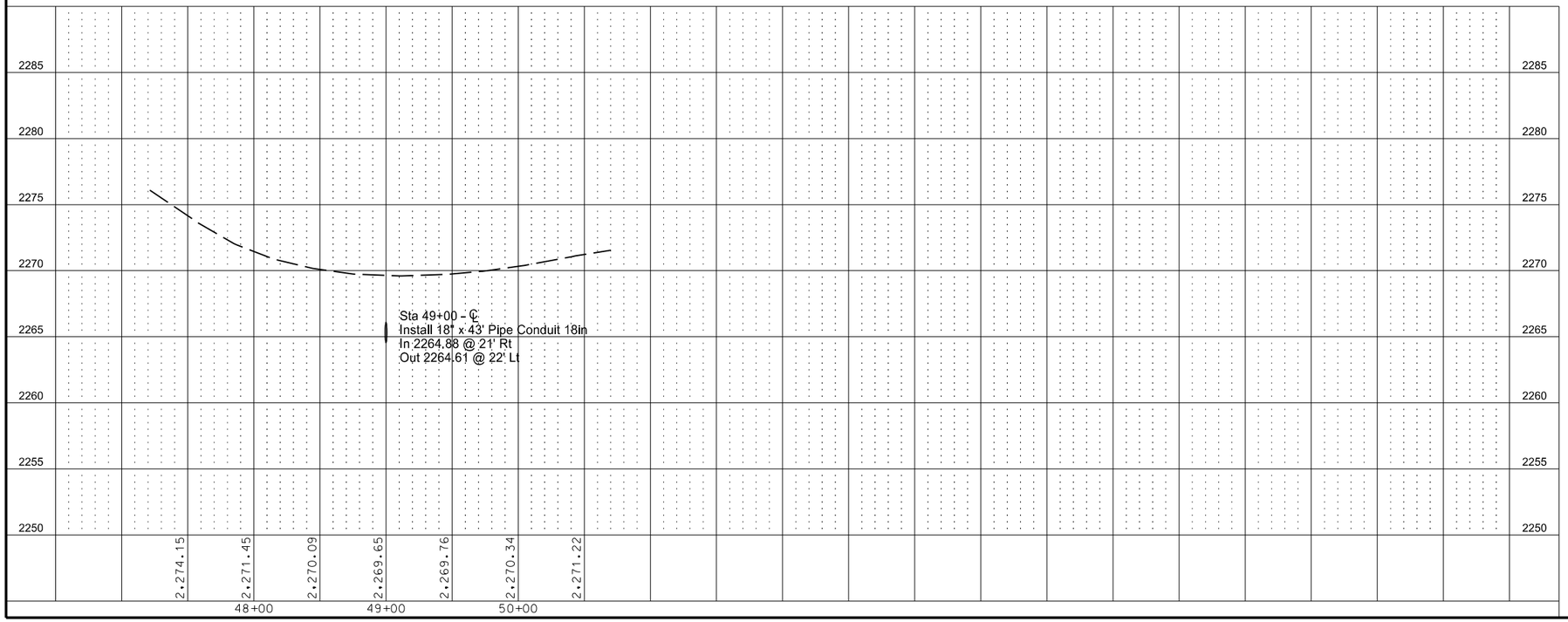
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	9



Fiber optic line graphics drawn by location map provided by SRT Communications



PIPE CONDUIT 18IN — Qty
Sta 49+00 — 43 LF

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K6S-5

Mountrail County

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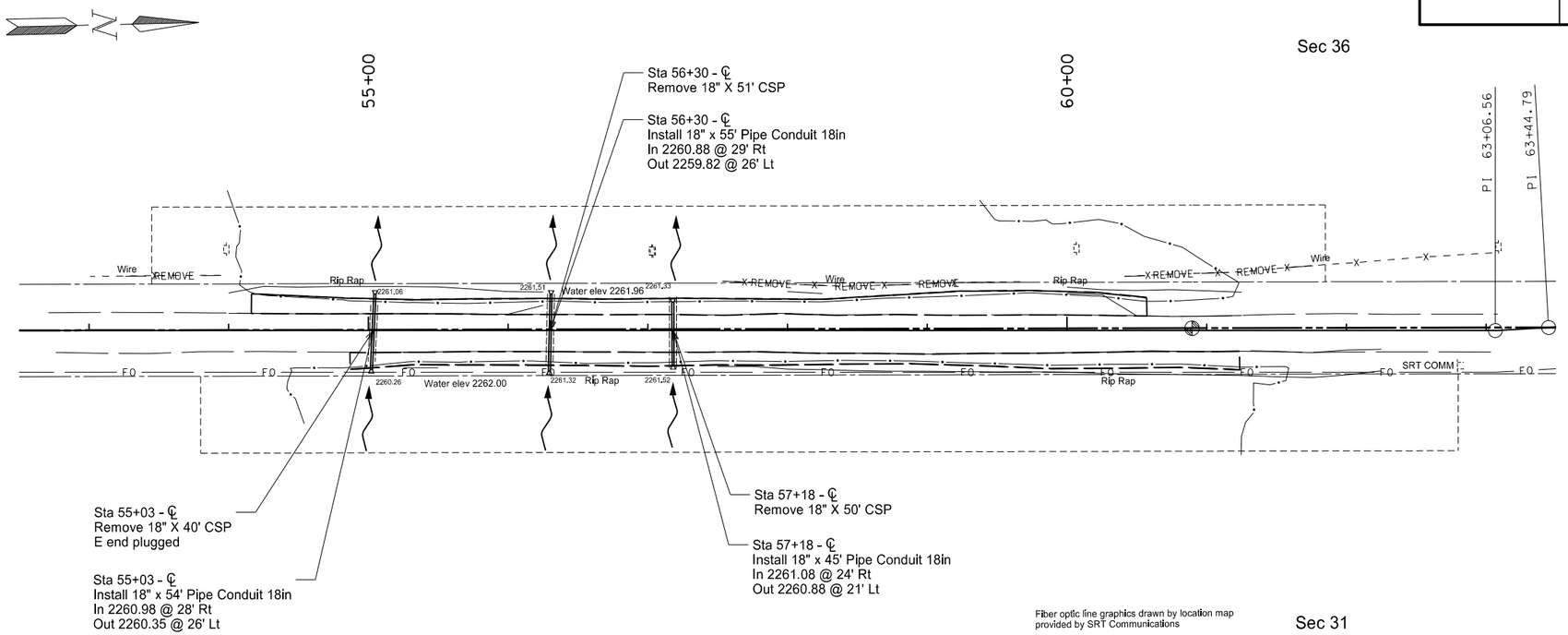
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	10

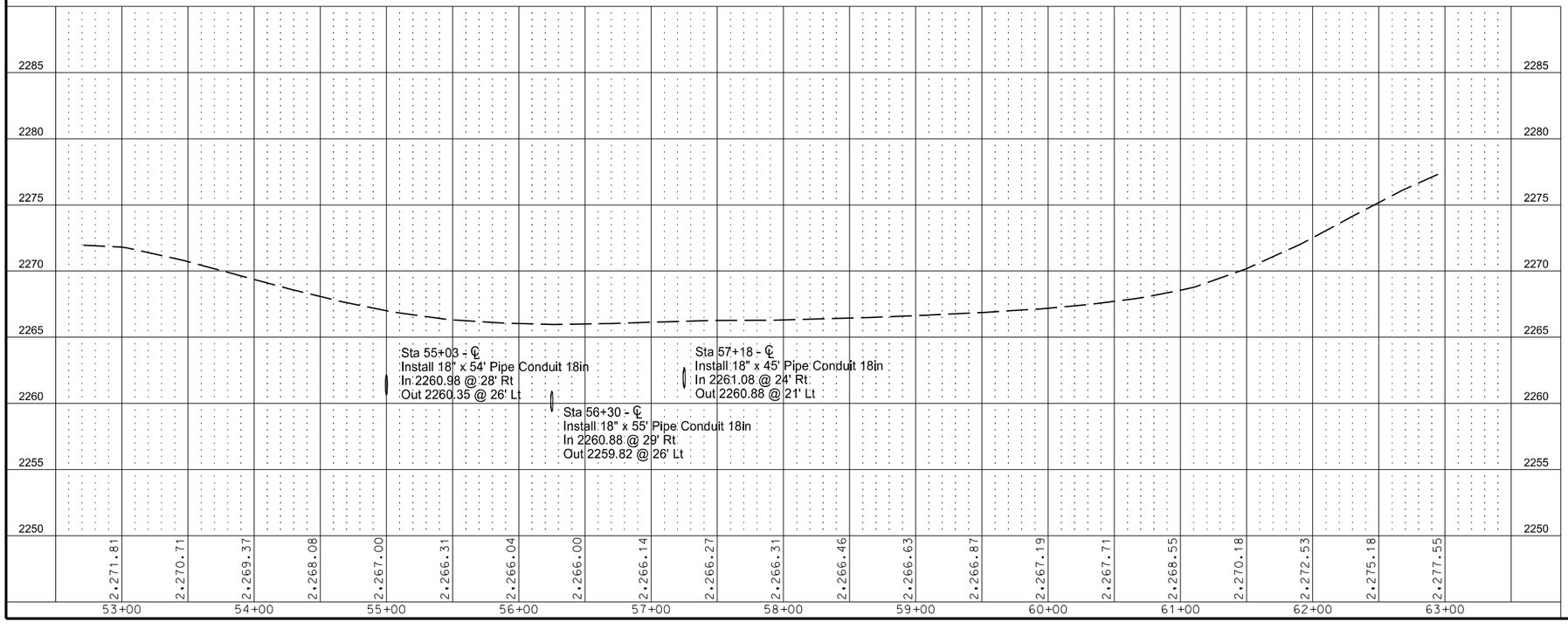


REMOVAL OF PIPE ALL TYPES AND SIZES	Qty
Sta 55+03	40 LF
Sta 56+30	51 LF
Sta 57+18	50 LF

REMOVE EXISTING FENCE	Qty
Sta 53+26 LT to 53+95 LT	69 LF
Sta 57+53 LT to 59+67 LT	214 LF
Sta 60+41 LT to 62+01 LT	160 LF

REMOVAL OF RIPRAP - LOOSE ROCK	Qty
Sta 54+87 RT to Sta 61+23 RT	231 CY
Sta 54+16 LT to Sta 60+57 LT	304 CY

PIPE CONDUIT 18IN	Qty
Sta 55+03	54 LF
Sta 56+30	55 LF
Sta 57+18	45 LF



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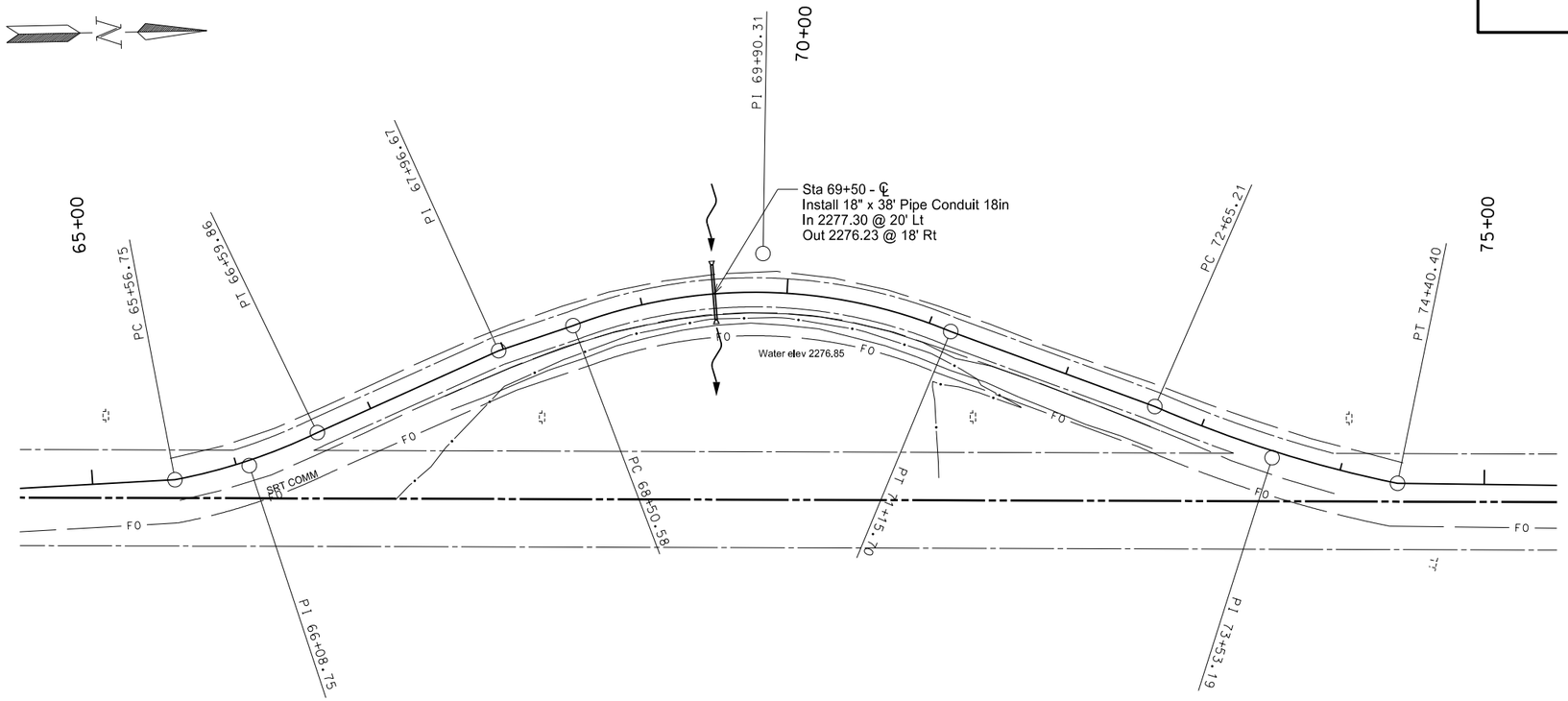
K6S-6

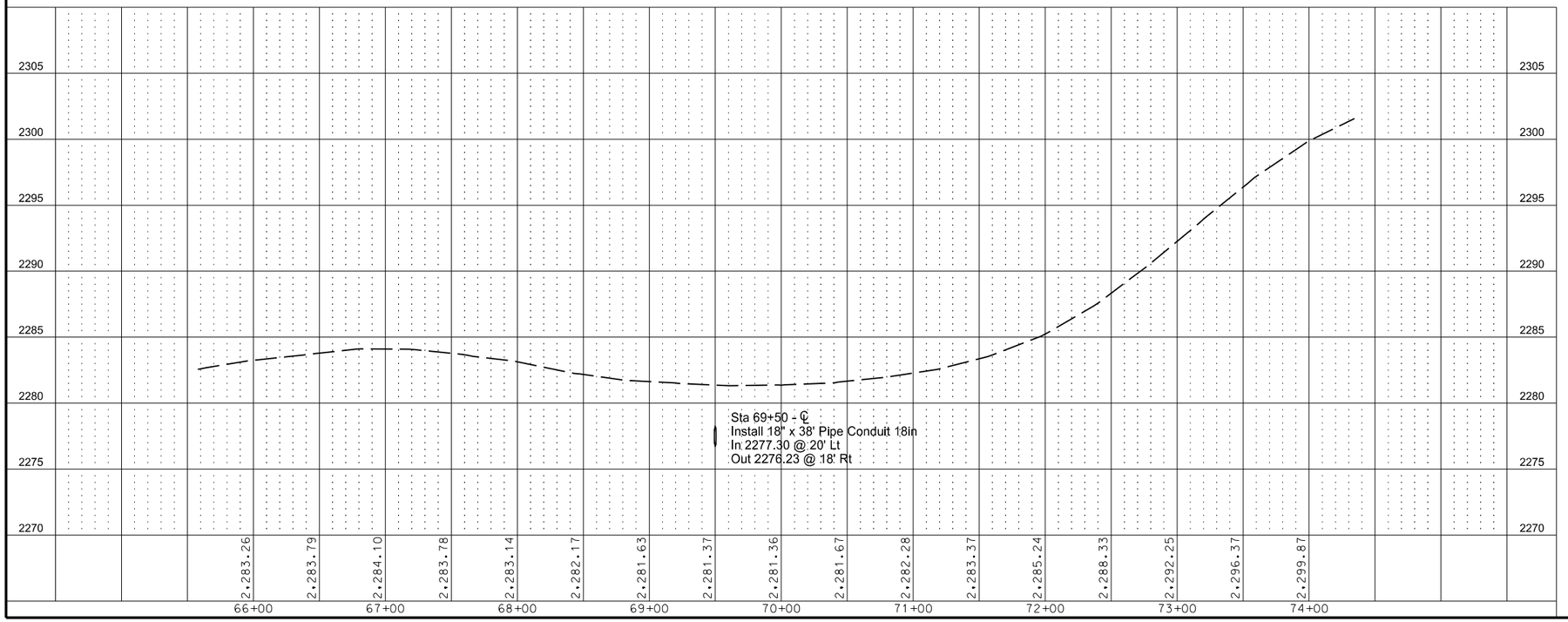
Mountrail County

10/30/2017 1:16:23 PM cschatz N:\20732\ROM-0300(135)\Design\Mountrail\060PP\060PP_010.dgn

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	60	11

PIPE CONDUIT 18IN — Qty
Sta 69+50 — 38 LF





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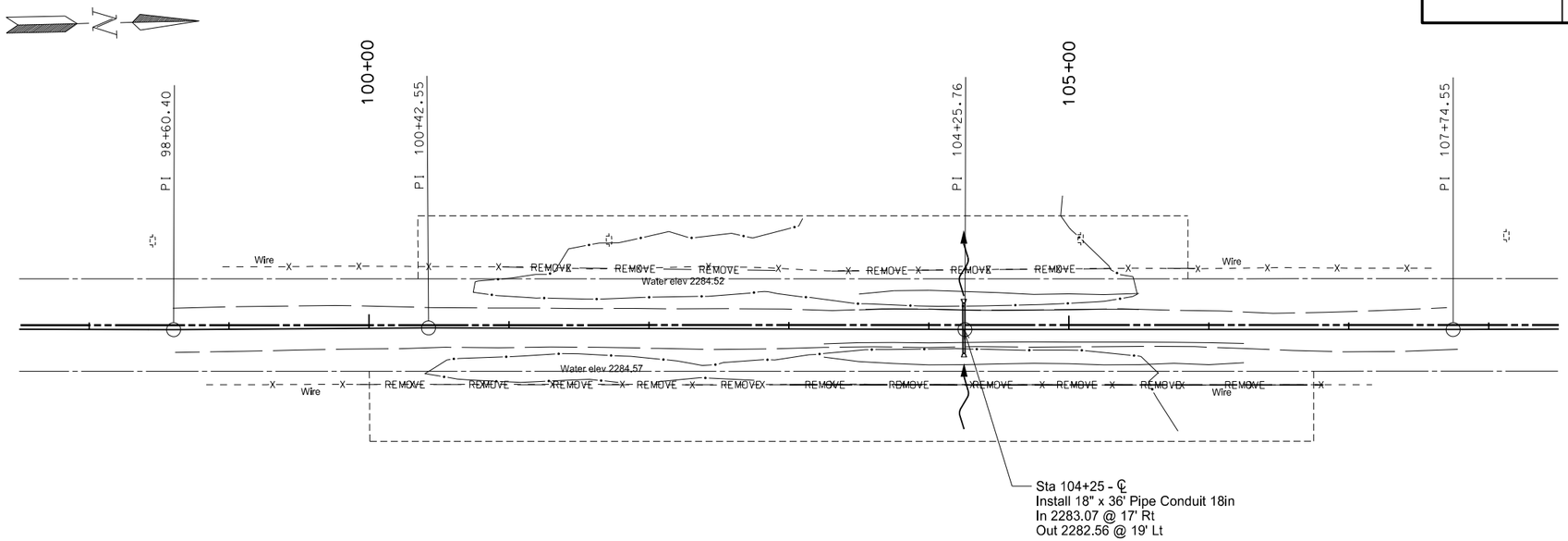
K6S-7

Mountrail County

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	60	12

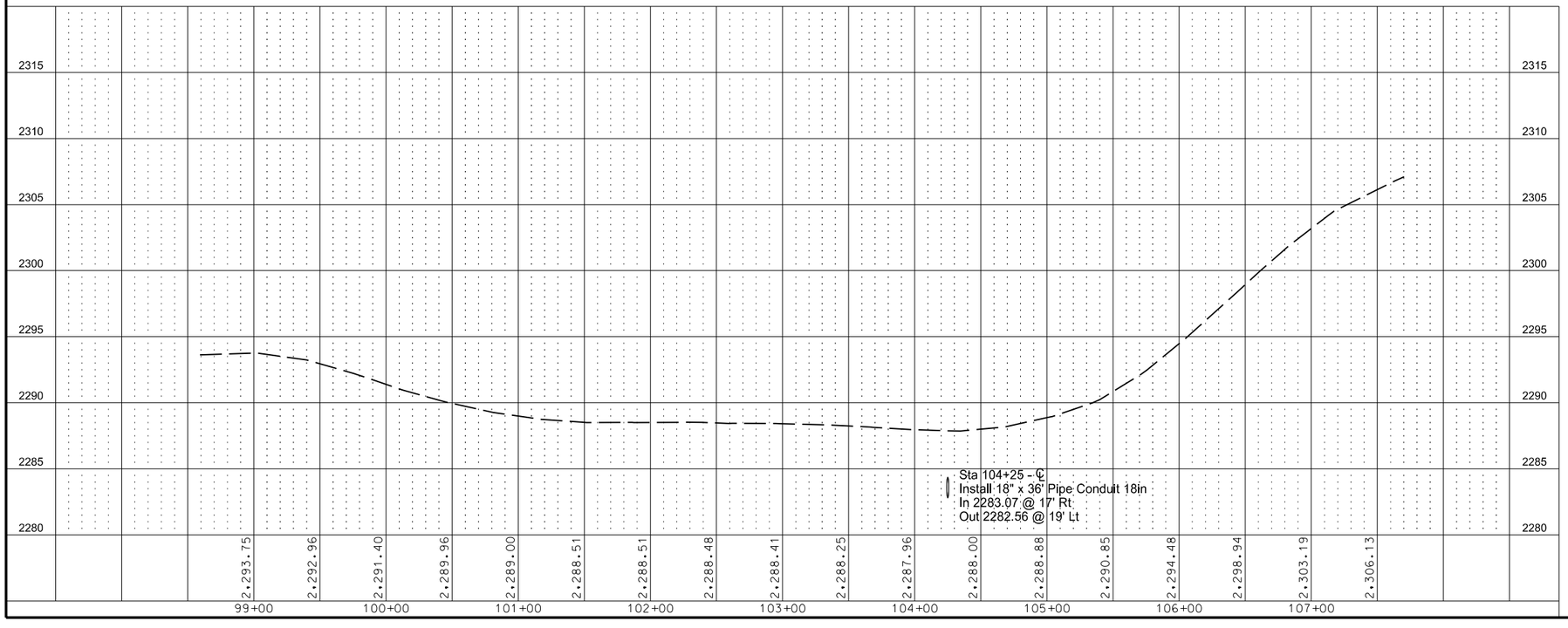


REMOVE EXISTING FENCE

	Qty
Sta 100+95 LT to 106+23 LT	582 LF
Sta 99+91 RT to 106+82 RT	691 LF

PIPE CONDUIT 18IN

	Qty
Sta 104+25	36 LF



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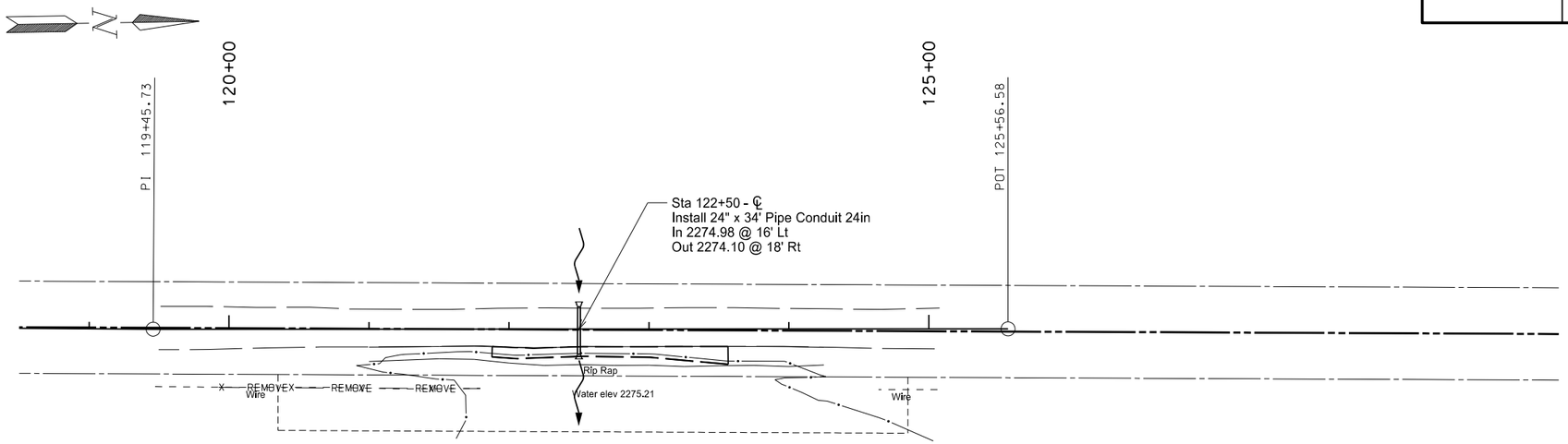
K6S-8

Mountrail County

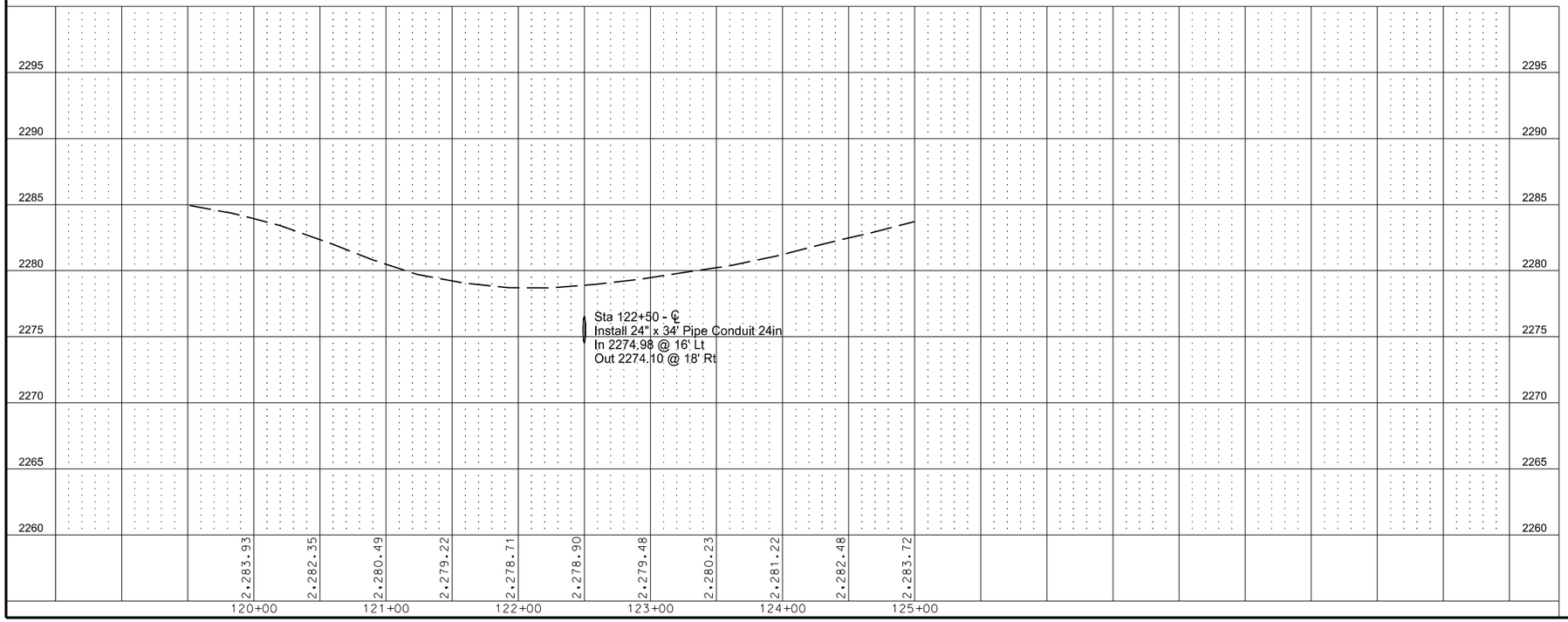
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	13



REMOVE EXISTING FENCE — Qty
Sta 119+93 RT to 121+80 RT — 187 LF

REMOVAL OF RIPRAP - LOOSE ROCK — Qty
Sta 121+88 RT to Sta 123+56 RT — 52 CY

PIPE CONDUIT 24IN — Qty
Sta 122+50 — 34 LF



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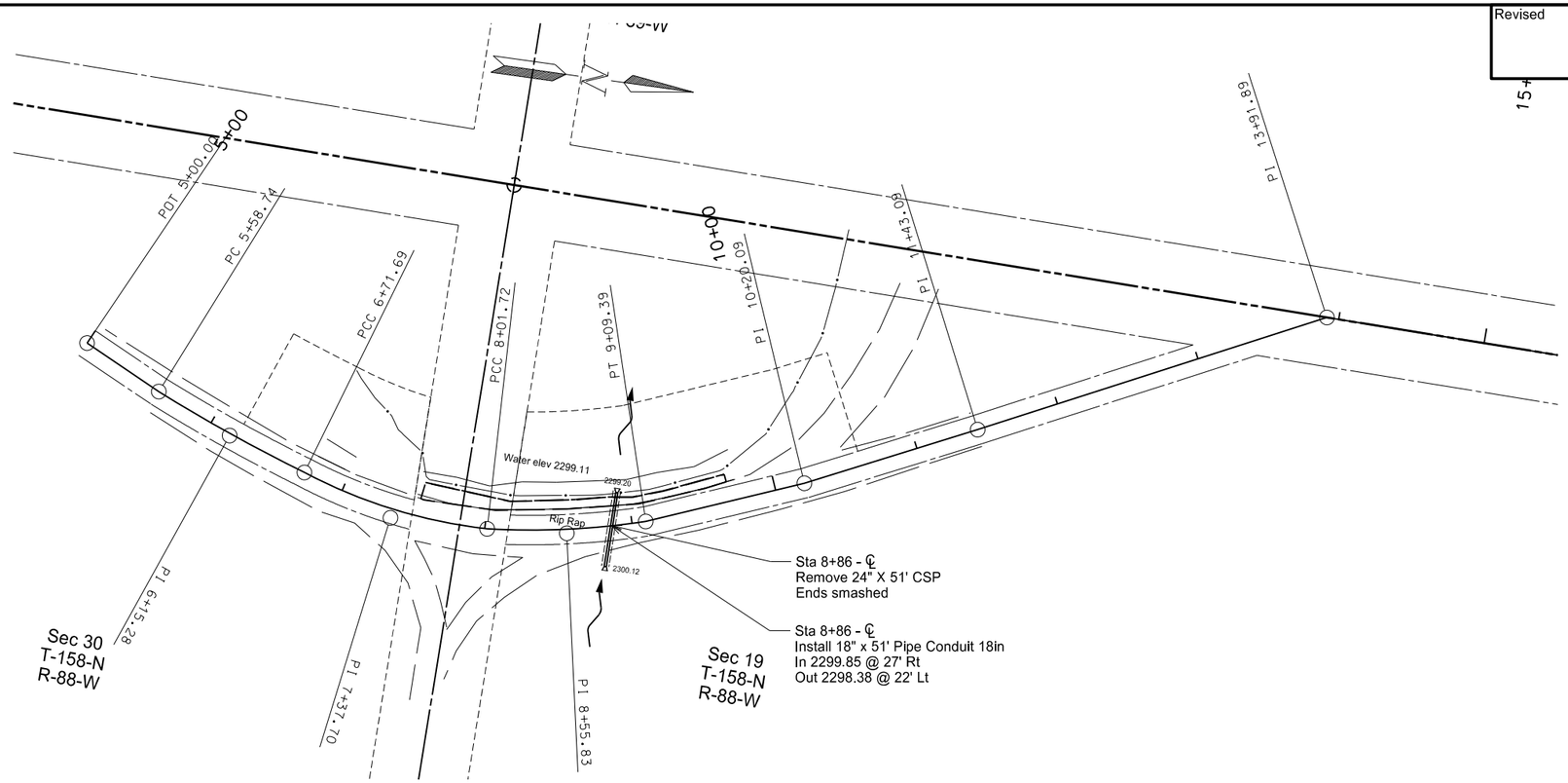
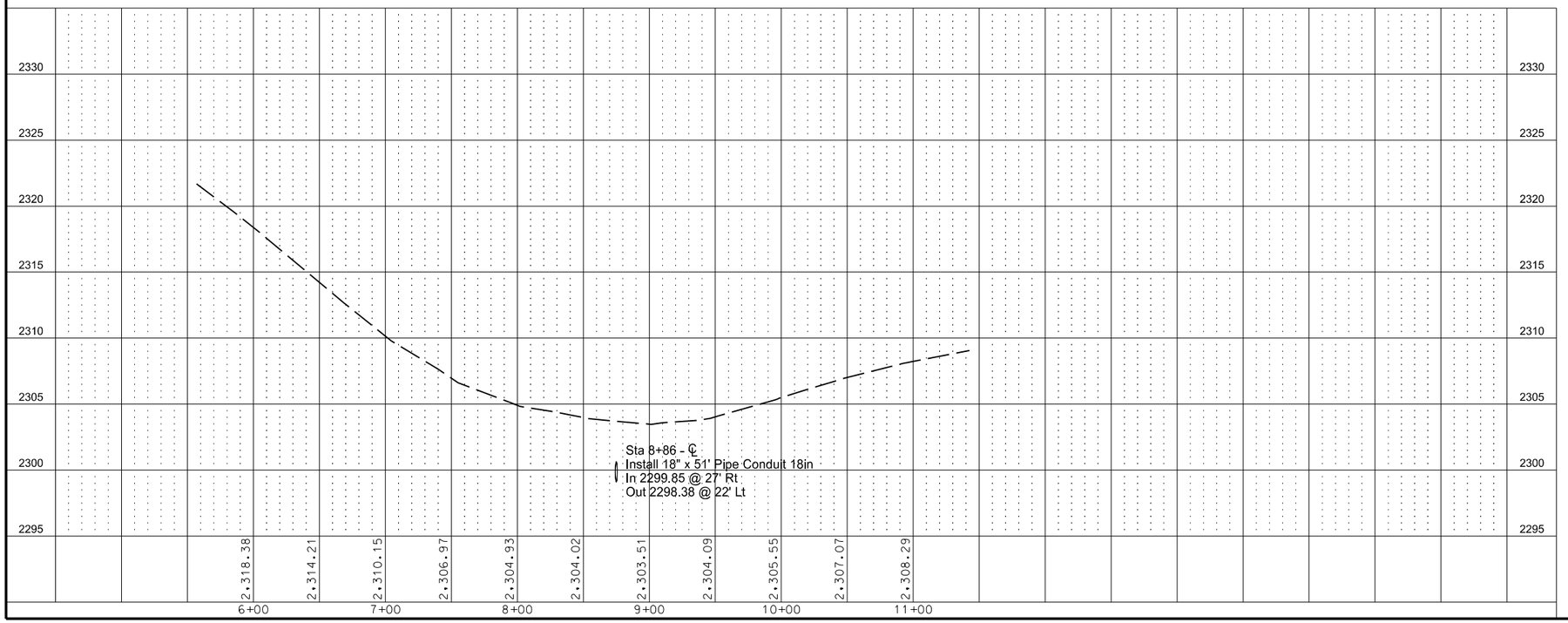
K6S-9

Mountrail County

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	60	14





REMOVAL OF PIPE ALL TYPES AND SIZES — Qty
Sta 8+86 — 51 LF

REMOVAL OF RIPRAP - LOOSE ROCK — Qty
Sta 7+53 LT to Sta 9+69 LT — 51 CY

PIPE CONDUIT 18IN — Qty
Sta 8+86 — 51 LF

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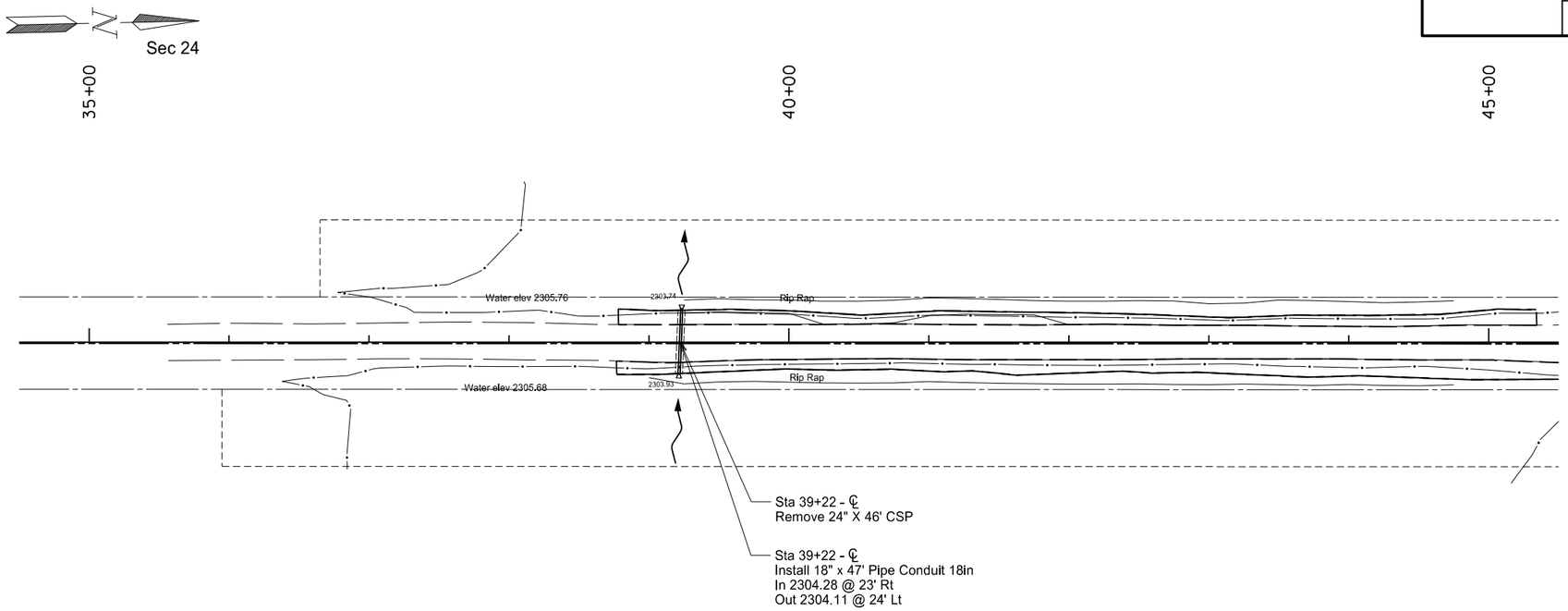
K6N-1

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	15



REMOVAL OF PIPE ALL TYPES AND SIZES

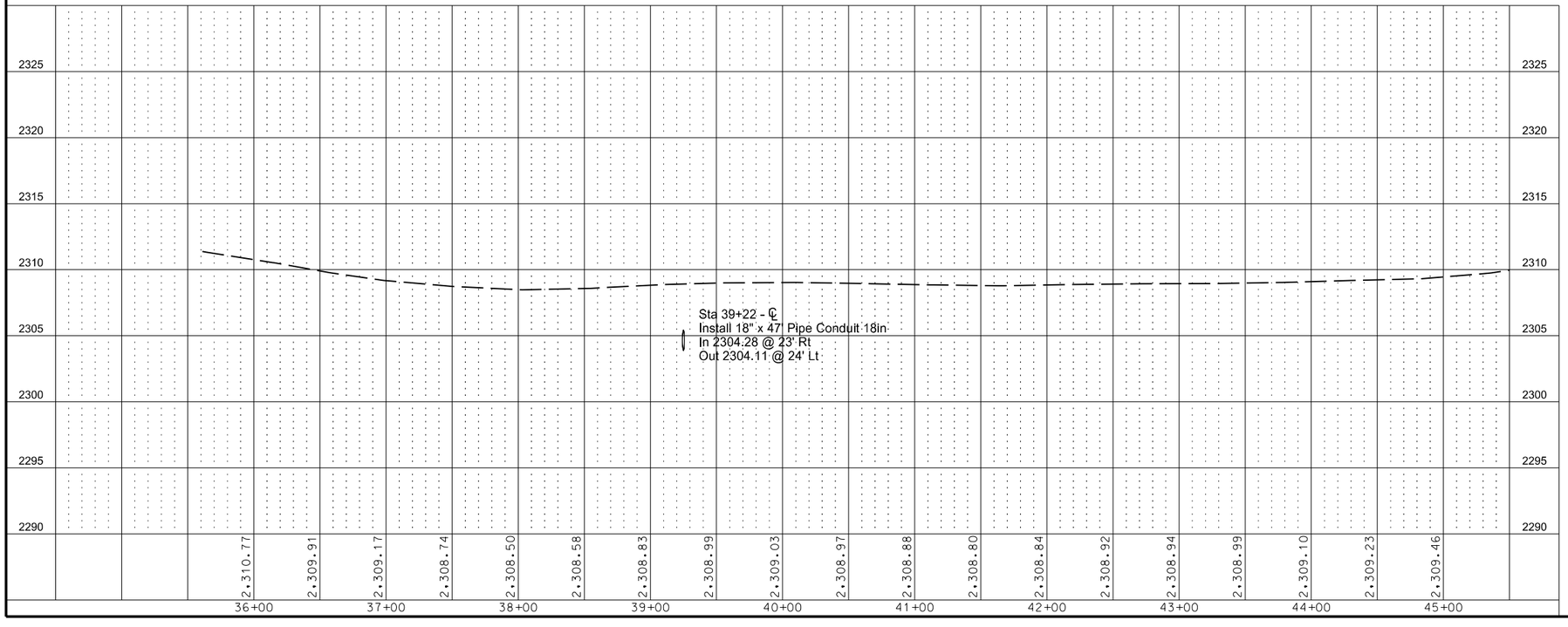
	Qty
Sta 39+22	46 LF

REMOVAL OF RIPRAP - LOOSE ROCK

	Qty
Sta 38+77 RT to Sta 45+57 RT	251 CY
Sta 38+78 LT to Sta 45+34 LT	208 CY

PIPE CONDUIT 18IN

	Qty
Sta 39+22	47 LF



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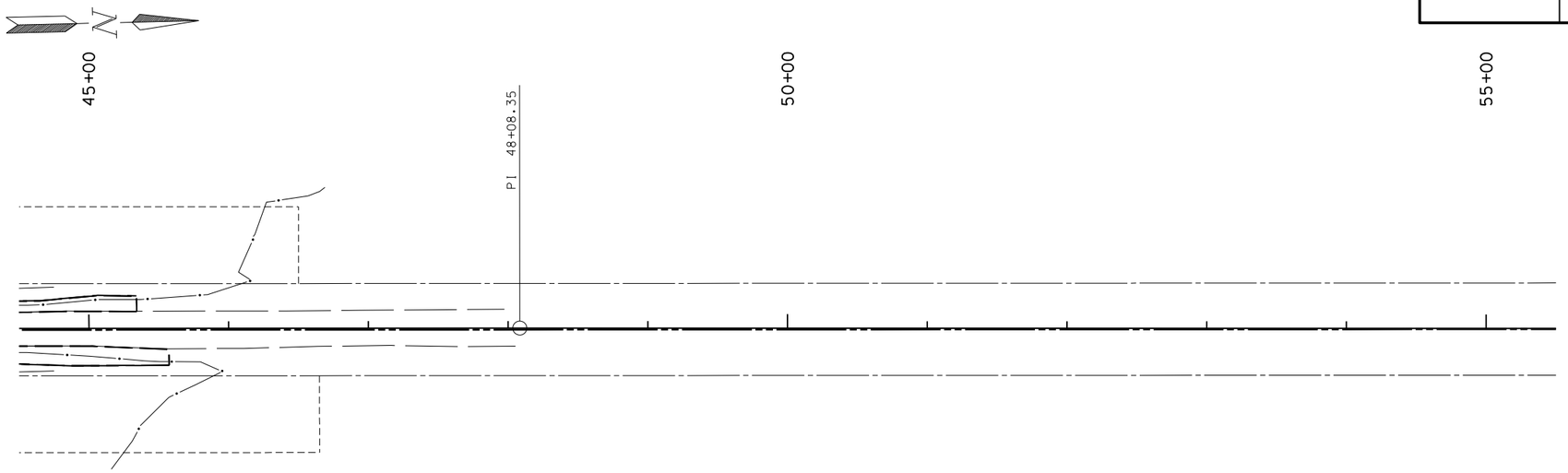
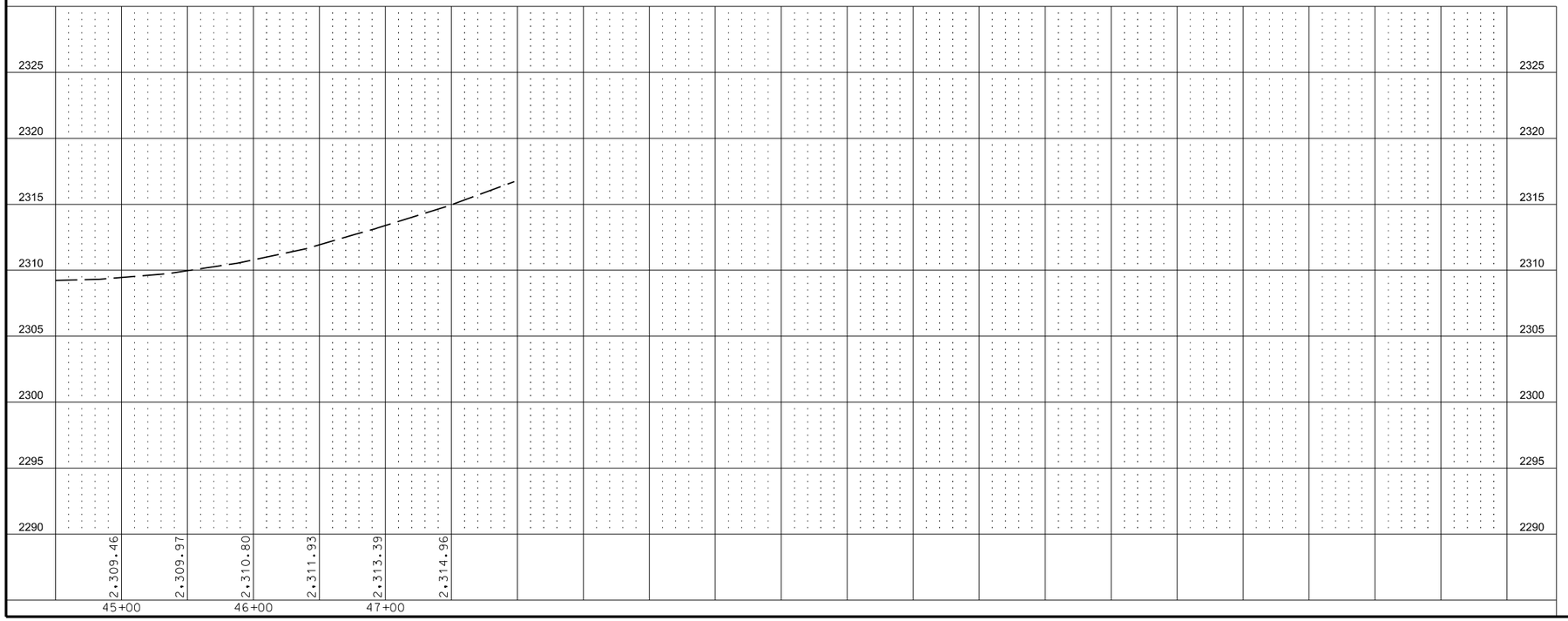
K6N-2

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	16





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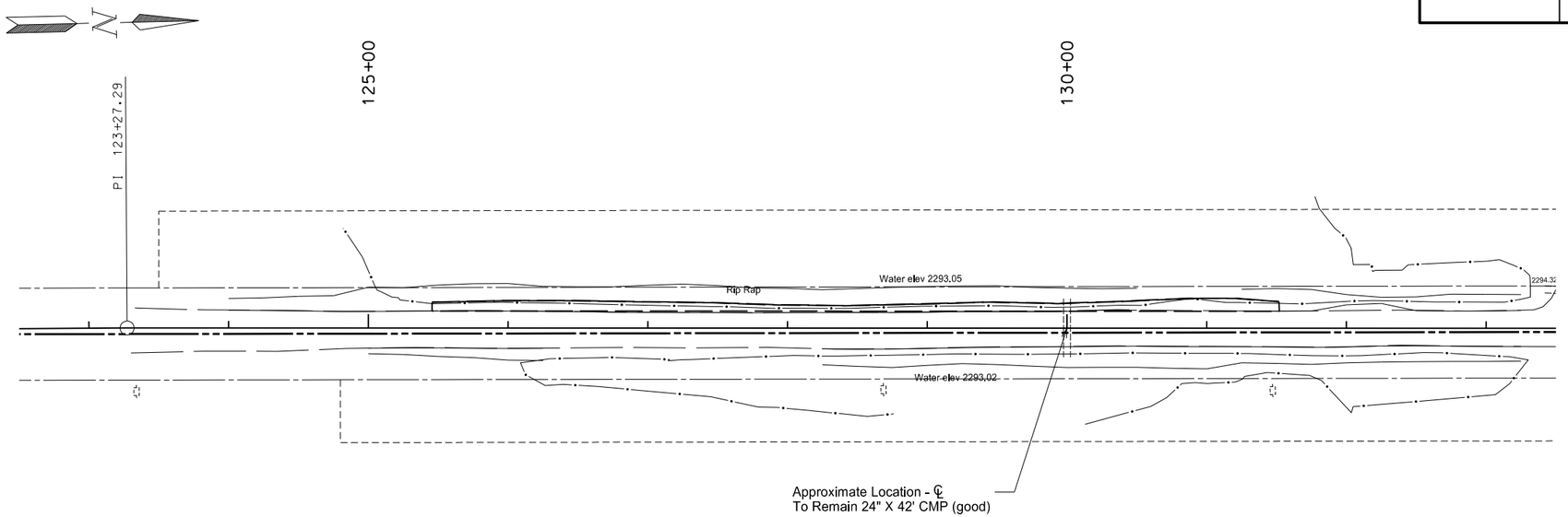
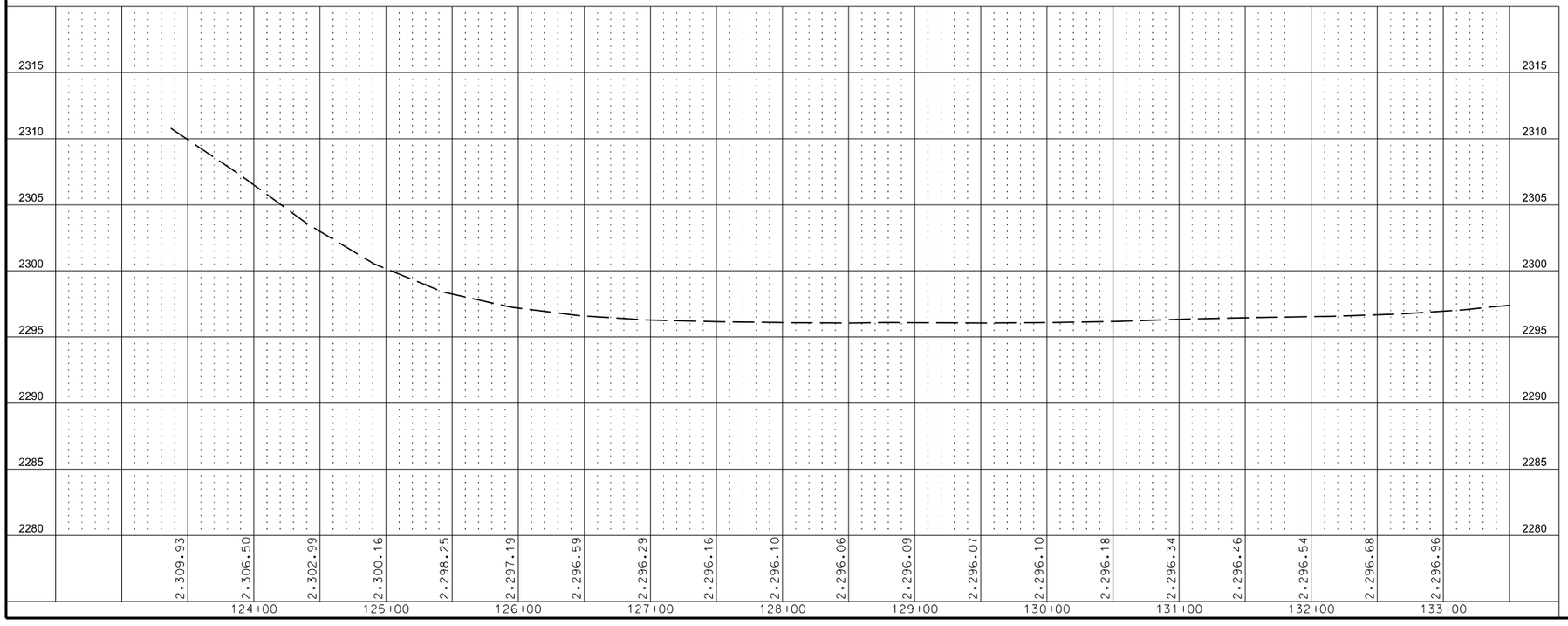
K6N-2

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	17



REMOVAL OF RIPRAP - LOOSE ROCK — Qty
Sta 125+45 LT to Sta 131+52 LT — 143 CY



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K6N-3

Mountrail County

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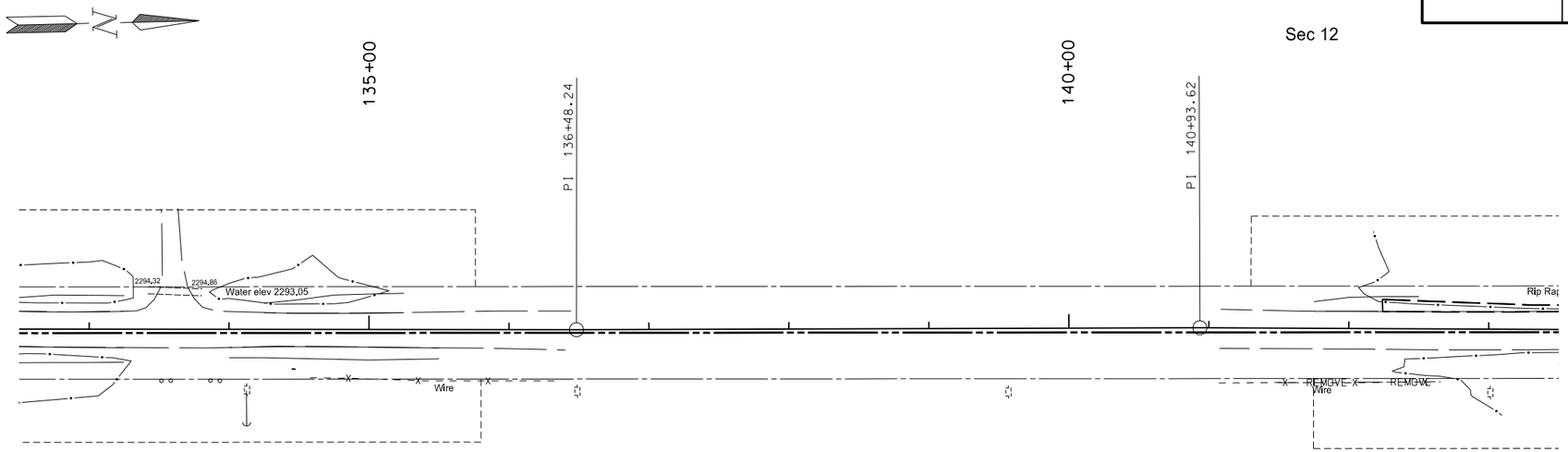
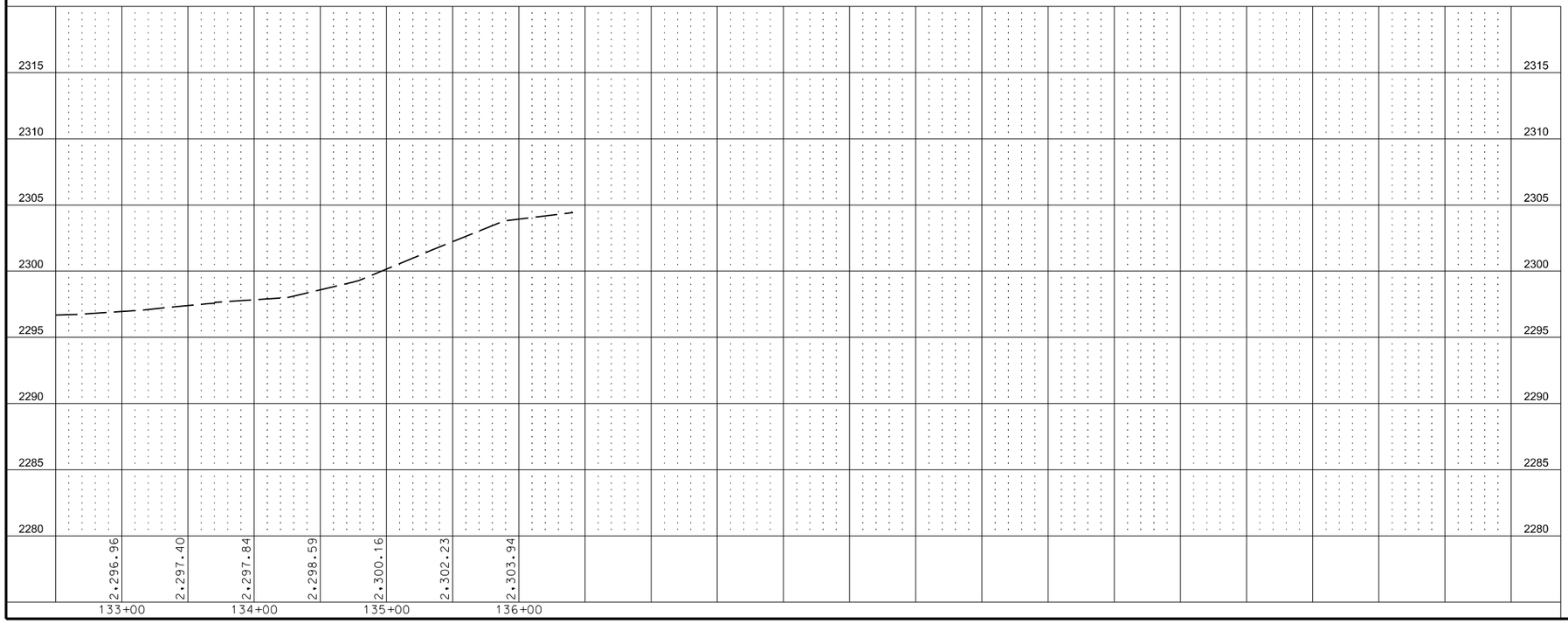
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	18



Sec 7



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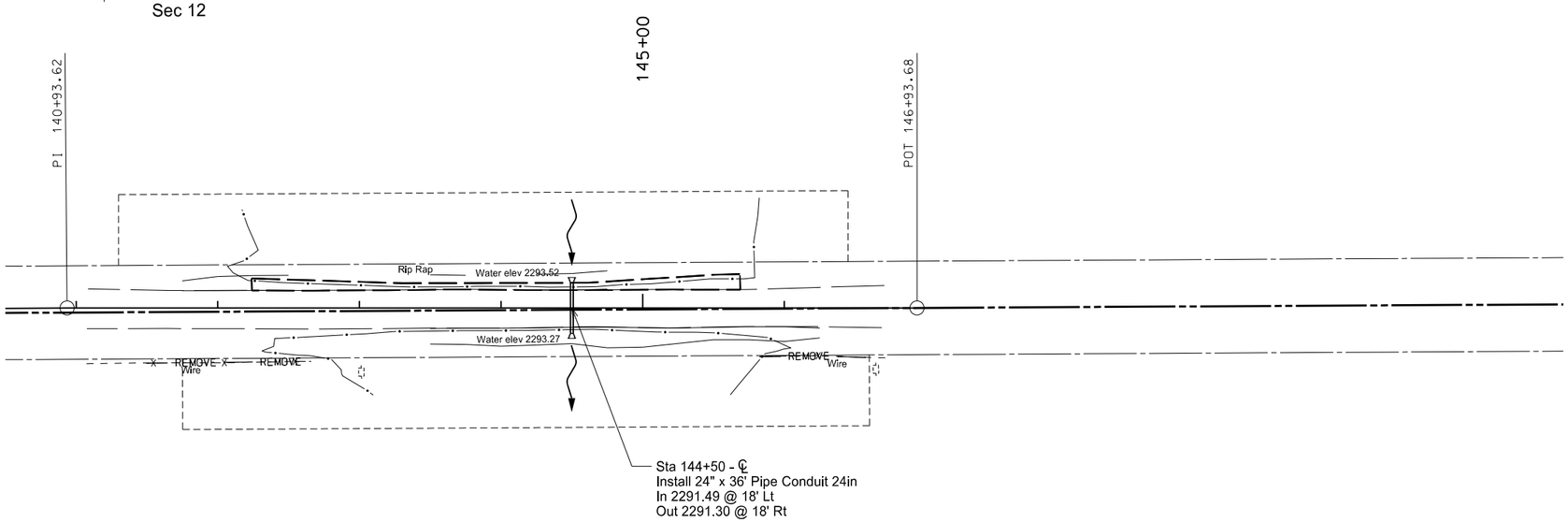
K6N-3 & K6N-4

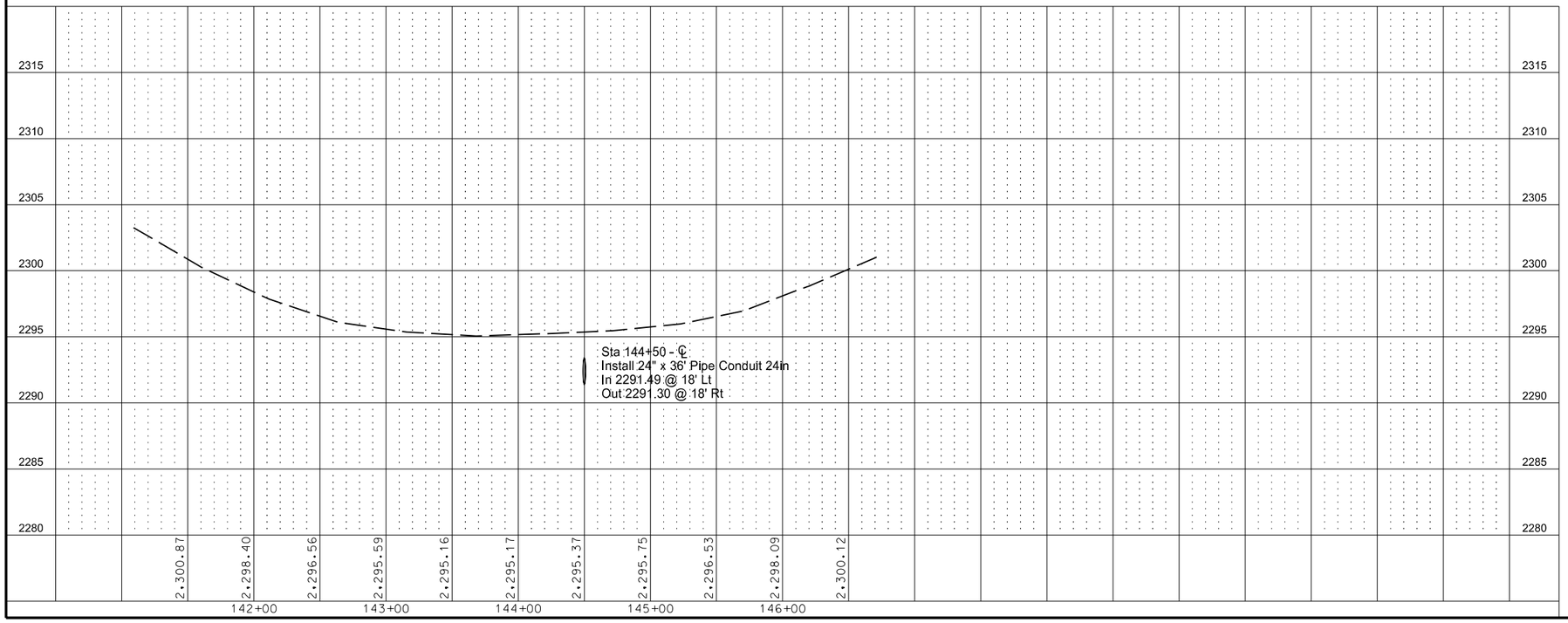
Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	19

Sec 12



Sec 7



REMOVE EXISTING FENCE	Qty
Sta 141+50 RT to Sta 142+66 RT	116 LF
Sta 145+82 RT to Sta 146+72 RT	90 LF

REMOVAL OF RIPRAP - LOOSE ROCK	Qty
Sta 142+24 LT to Sta 145+69 LT	83 CY

PIPE CONDUIT 24IN	Qty
Sta 144+50	36 LF

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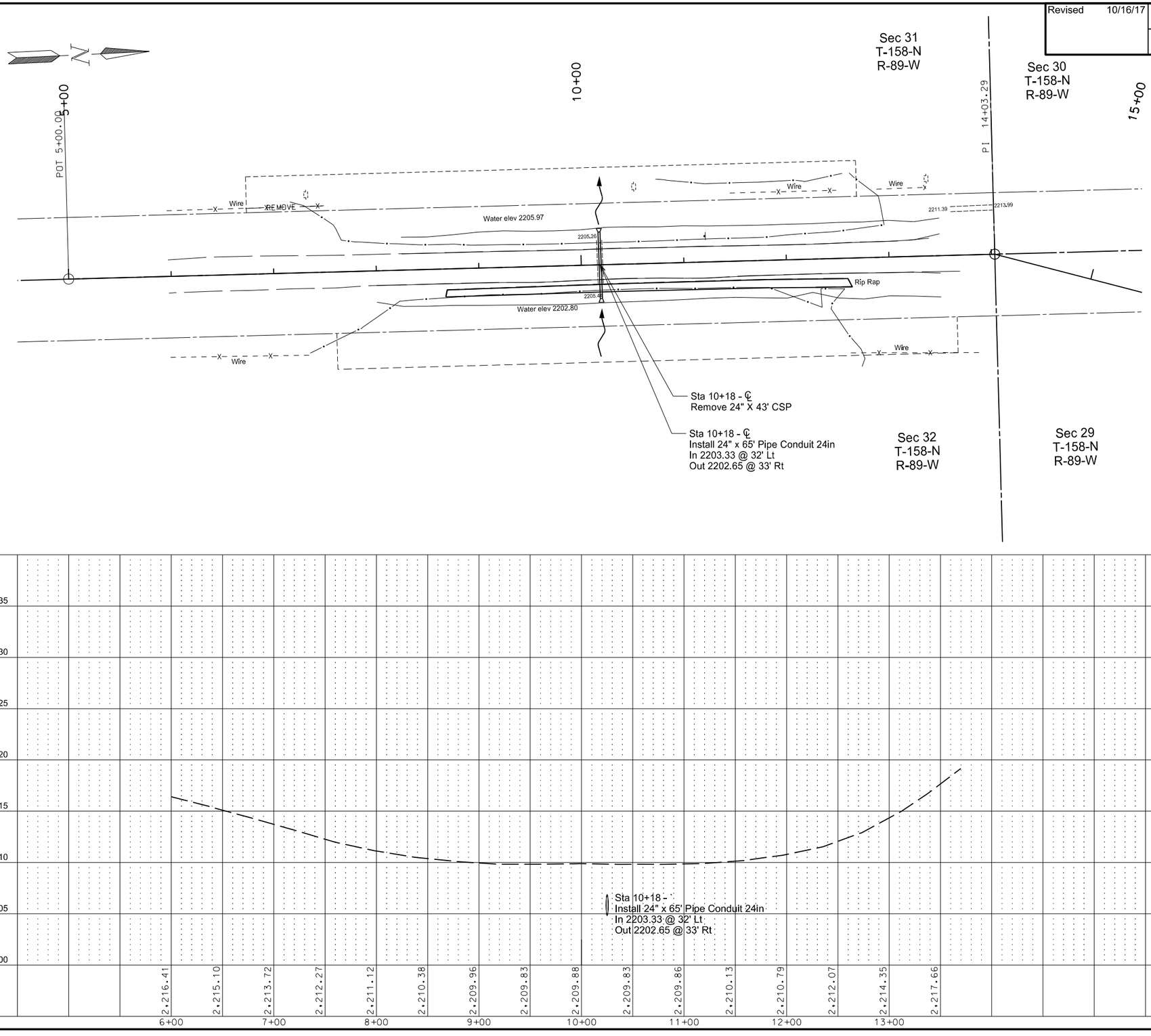
K6N-4

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	20



REMOVAL OF PIPE ALL TYPES AND SIZES — Qty
Sta 10+18 — 43 LF

REMOVE EXISTING FENCE — Qty
Sta 6+74 LT to Sta 7+51 LT — 77 LF
Sta 11+46 LT to Sta 12+51 LT — 105 LF

REMOVAL OF RIPRAP - LOOSE ROCK — Qty
Sta 8+69 RT to 12+60 RT — 110 CY

PIPE CONDUIT 24IN — Qty
Sta 10+18 — 65 LF

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K7-1

Mountrail County

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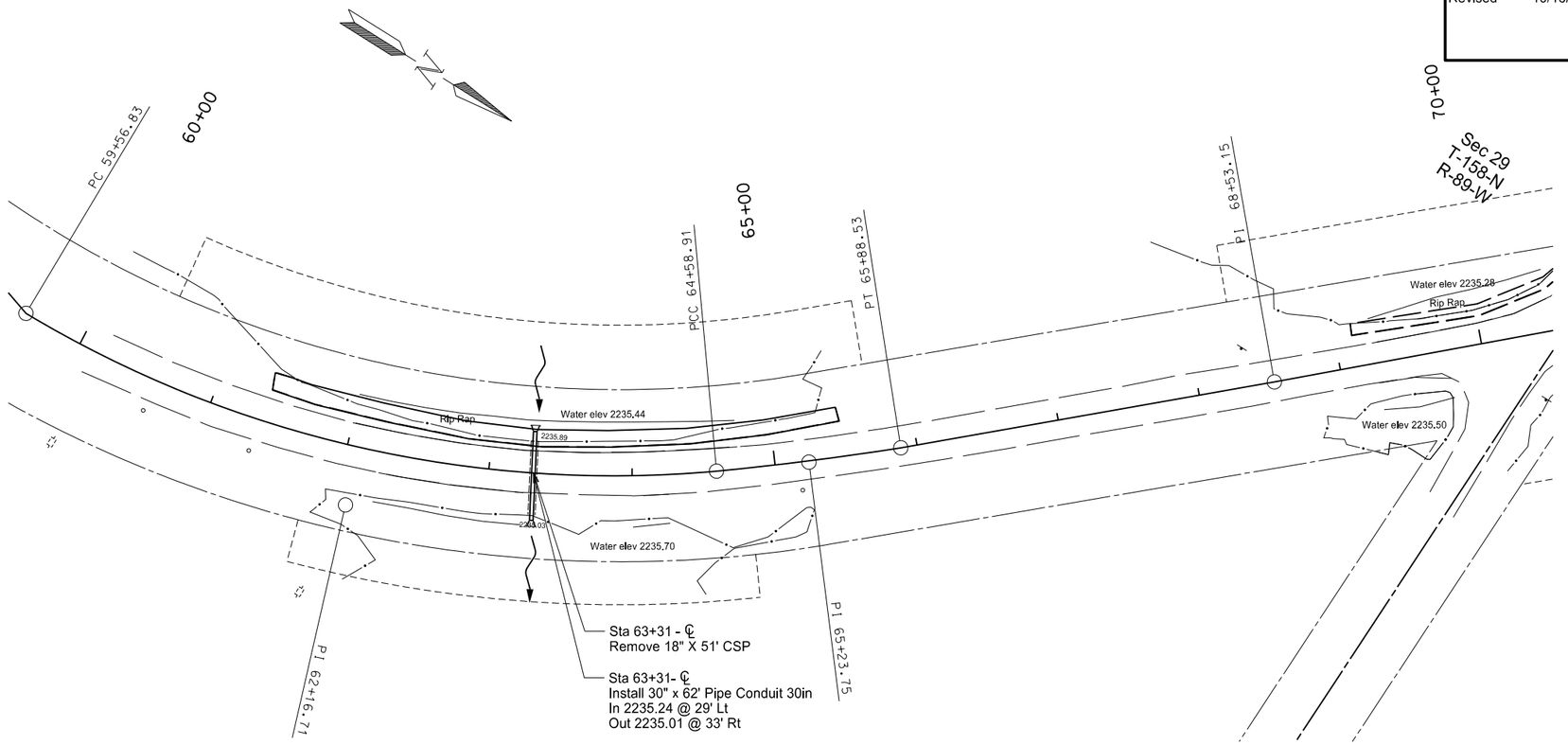
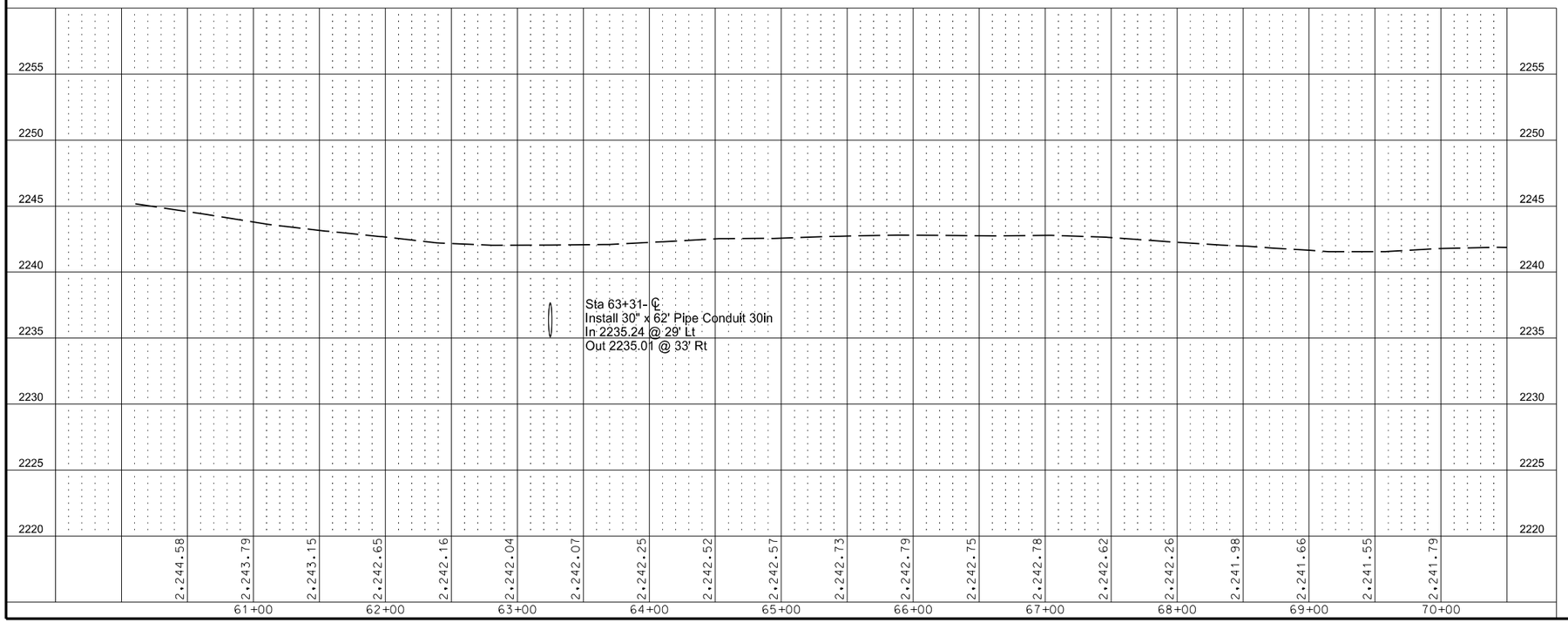
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	21



REMOVAL OF PIPE ALL TYPES AND SIZES — Qty
Sta 63+31 — 51 LF

REMOVAL OF RIPRAP - LOOSE ROCK — Qty
Sta 61+38 LT to Sta 65+48 LT — 172 CY

PIPE CONDUIT 30IN — Qty
Sta 63+31 — 62 LF



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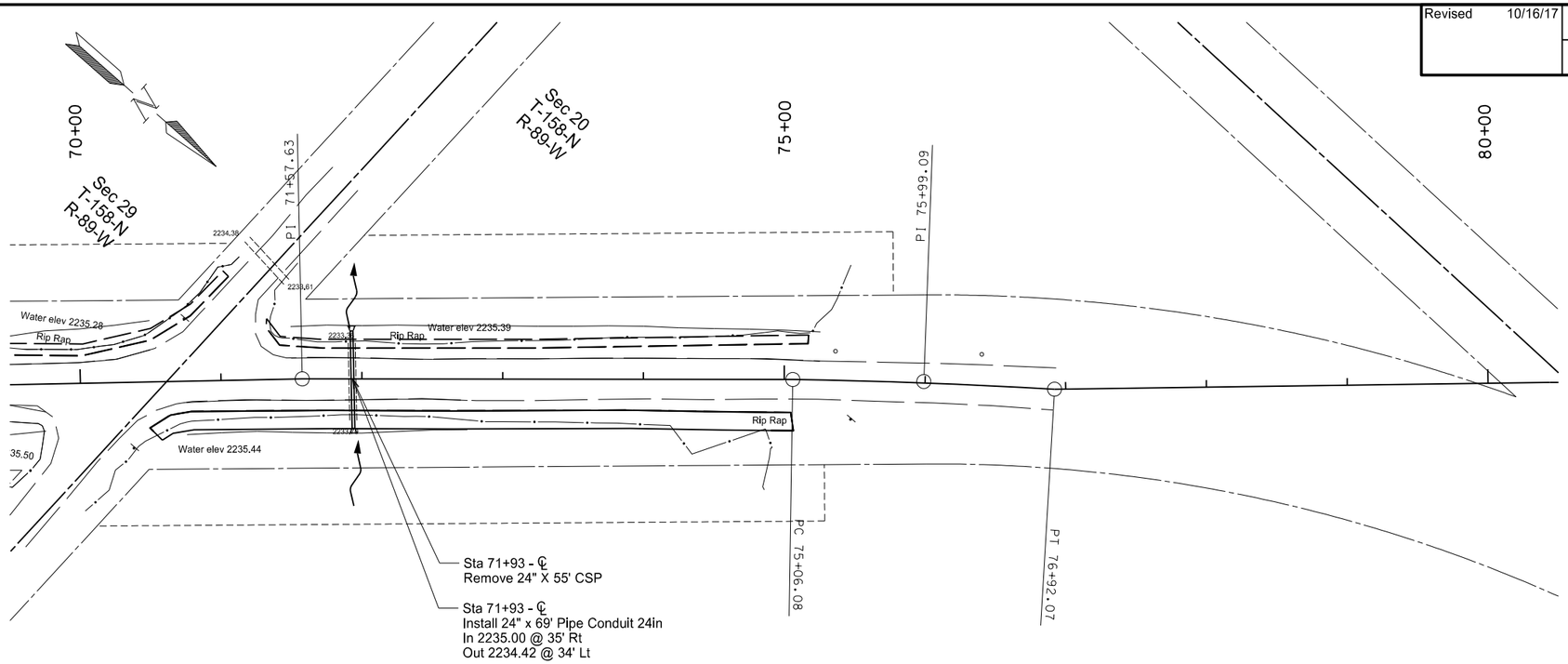
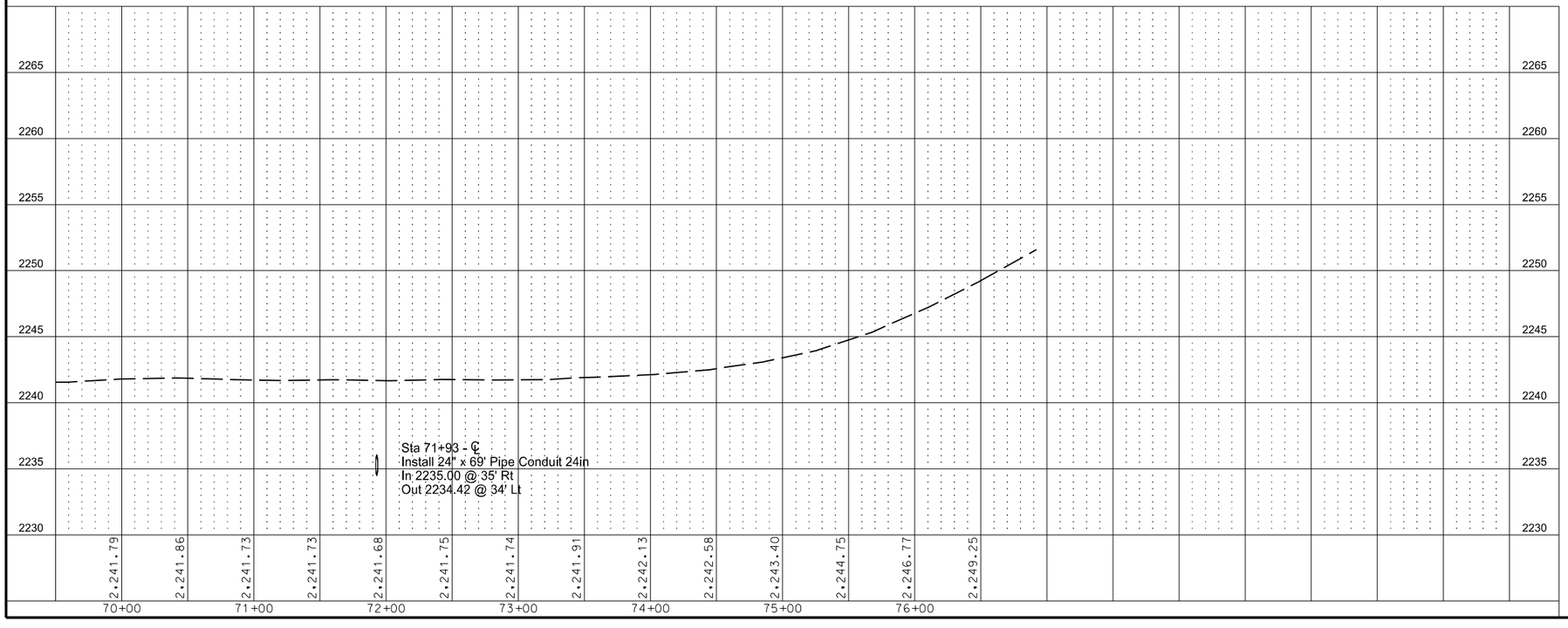
K7-2 & K7-3

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	22





REMOVAL OF PIPE ALL TYPES AND SIZES

	Qty
Sta 71+93	55 LF

REMOVAL OF RIPRAP - LOOSE ROCK

	Qty
Sta 70+49 to Sta 75+05	217 CY
Sta 69+12 to Sta 71+07	89 CY
Sta 71+33 to Sta 75+16	59 CY

PIPE CONDUIT 24IN

	Qty
Sta 71+93	69 LF

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K7-3

Mountrail County

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Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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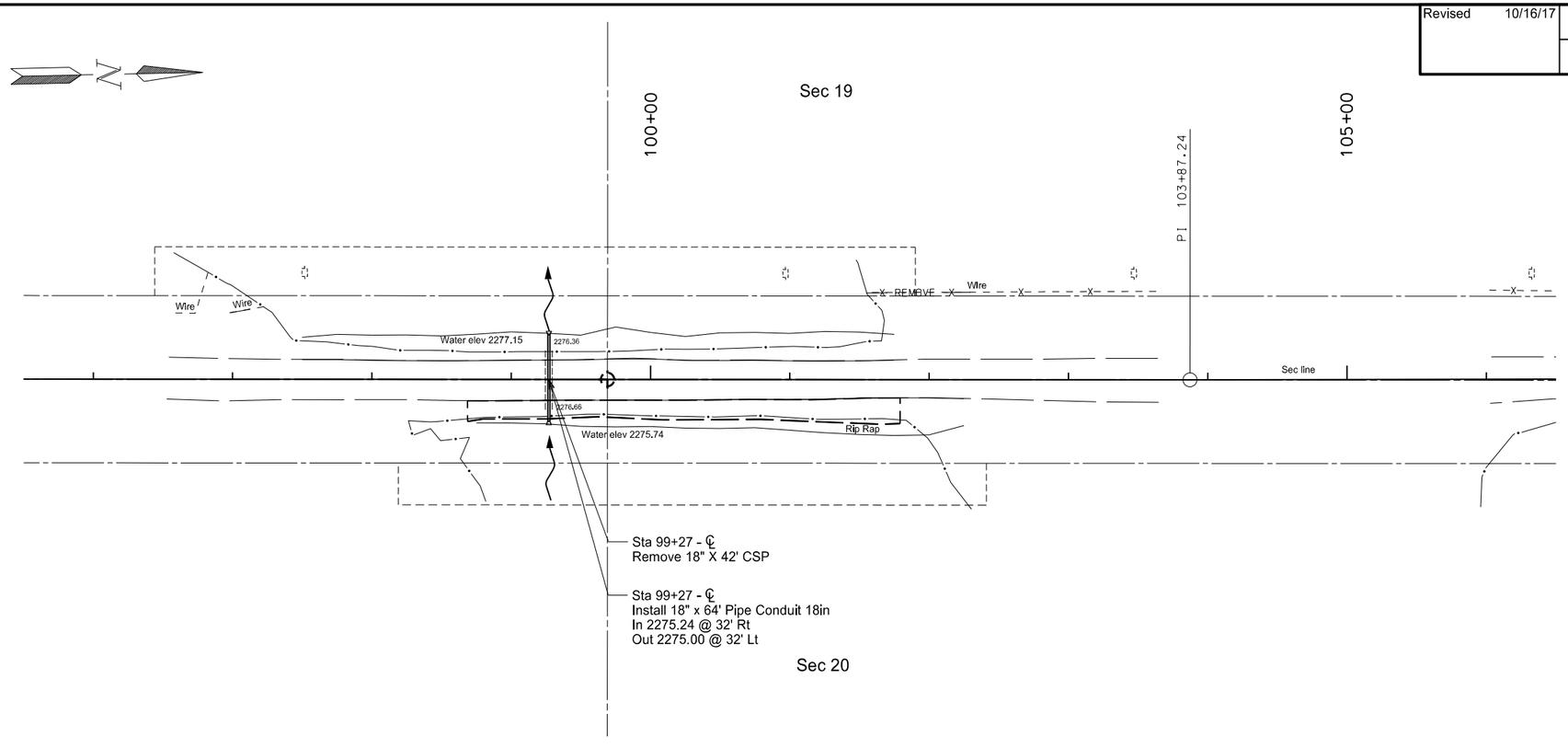

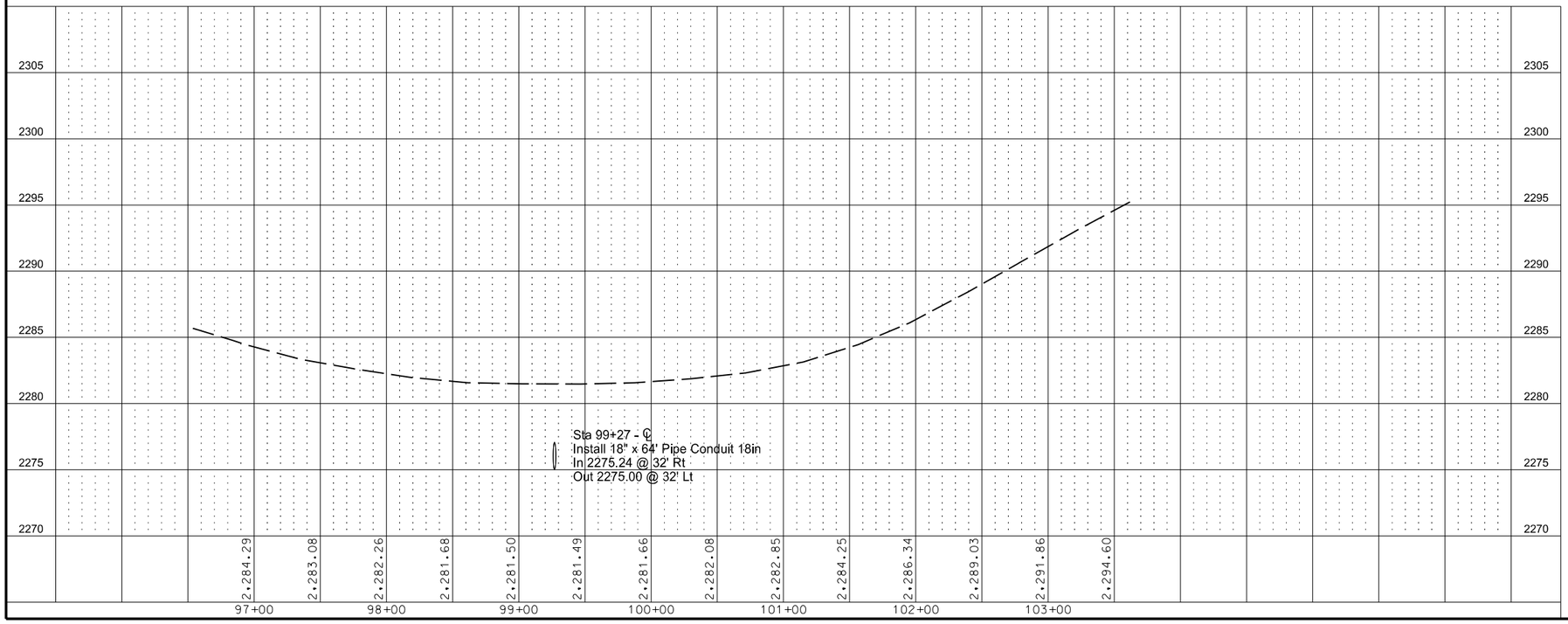

REMOVAL OF PIPE ALL TYPES AND SIZES

	Qty
Sta 99+27	42 LF

REMOVE EXISTING FENCE

	Qty
Sta 96+98 LT to 97+22 LT	24 LF
Sta 101+55 LT to 102+59 LT	104 LF

REMOVAL OF RIPRAP - LOOSE ROCK

	Qty
Sta 98+69 RT to Sta 101+79 RT	167 CY

PIPE CONDUIT 18IN

	Qty
Sta 99+27	64 LF

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Mountrail County

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Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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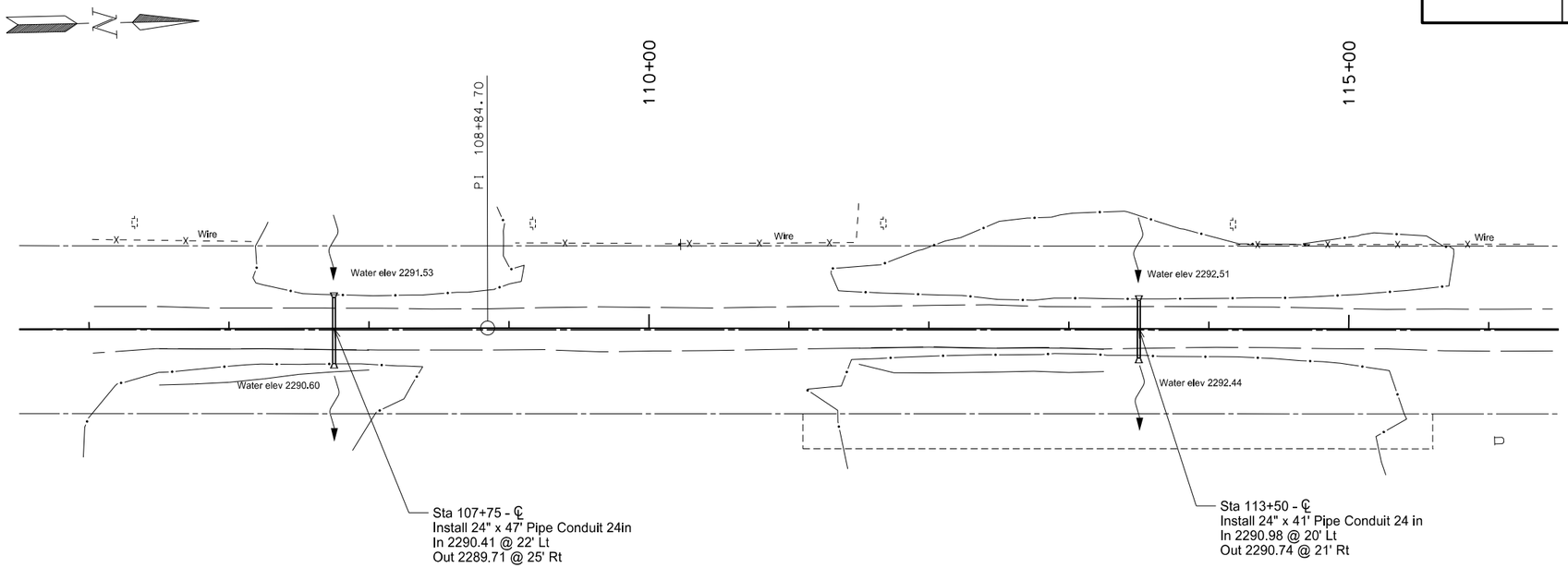
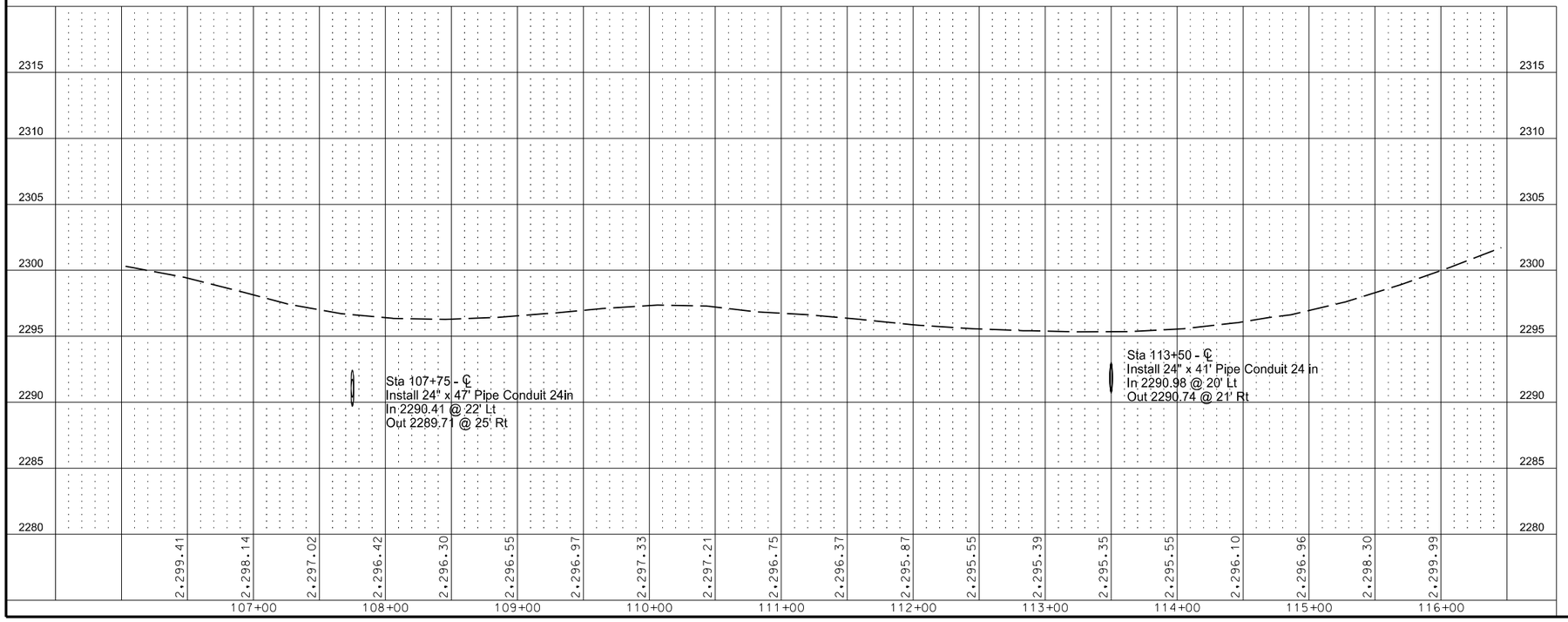


PIPE CONDUIT 24IN	Qty
Sta 107+75	47 LF
Sta 113+50	41 LF



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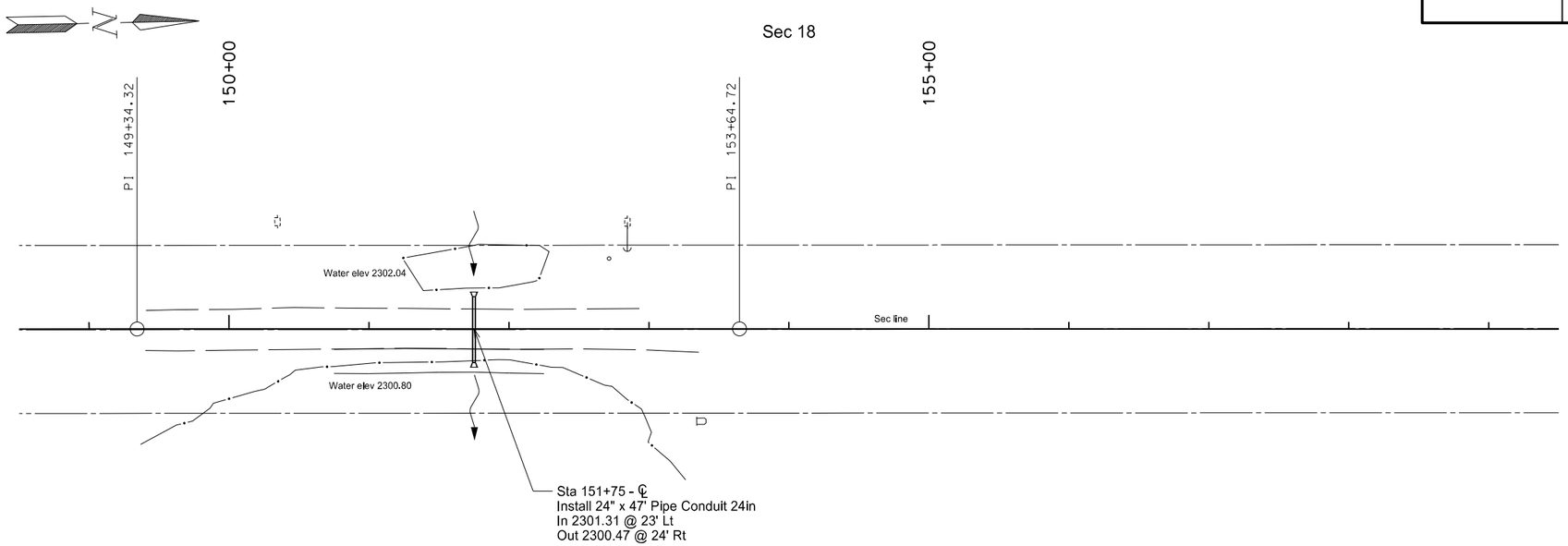
K7-5 & K7-6

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	25



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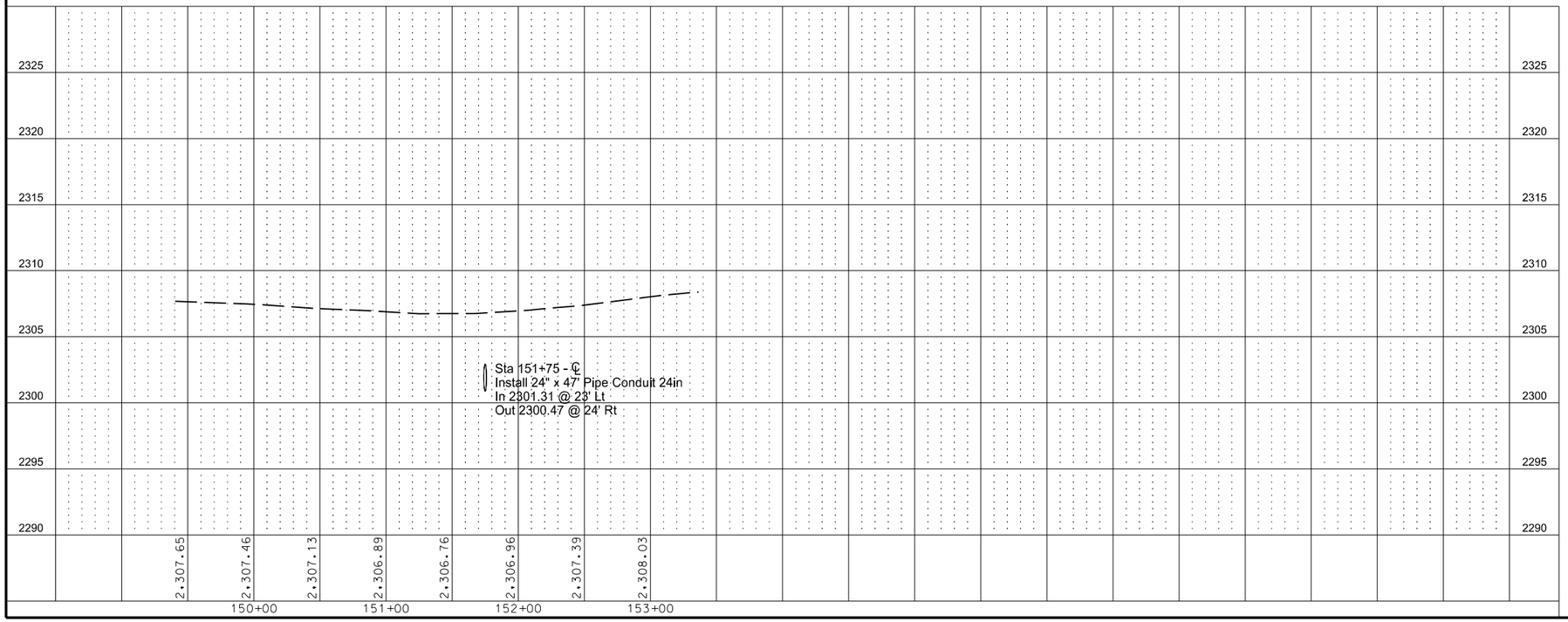

PIPE CONDUIT 24IN	Qty
Sta 151+75	47 LF

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K7-7

Mountrail County

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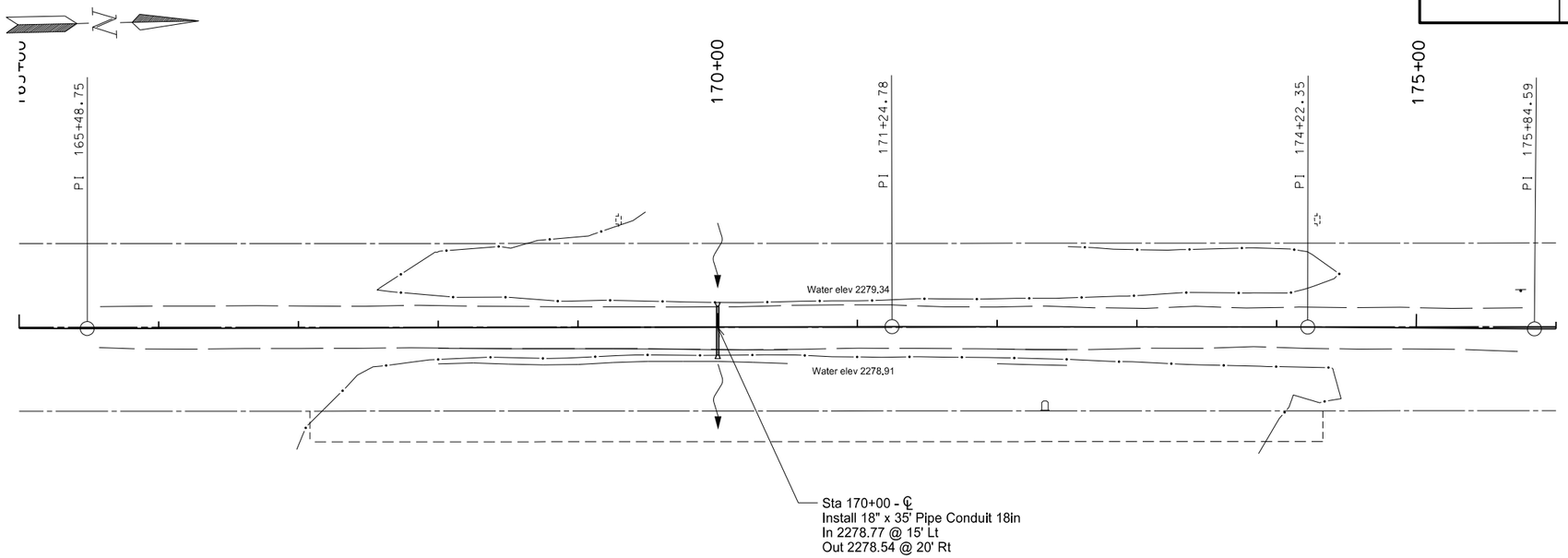
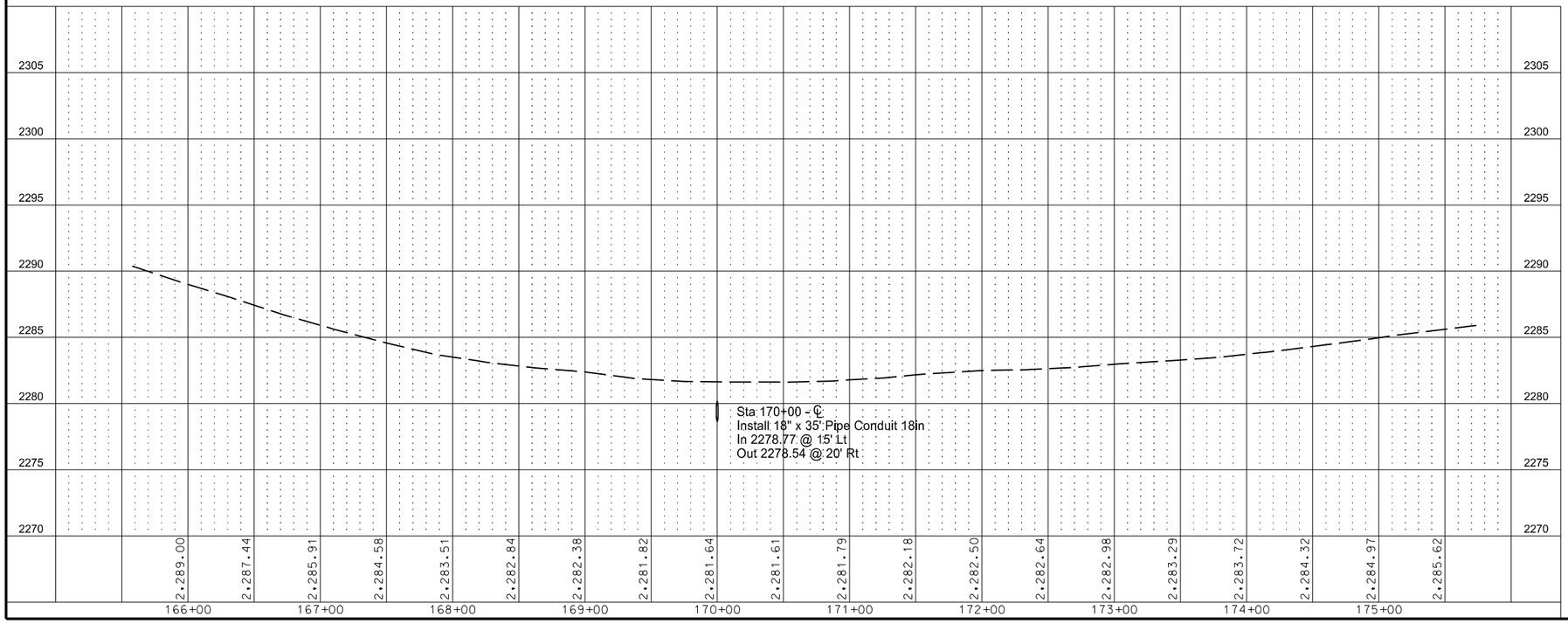
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	26



PIPE CONDUIT 18IN

	Qty
Sta 170+00	35 LF



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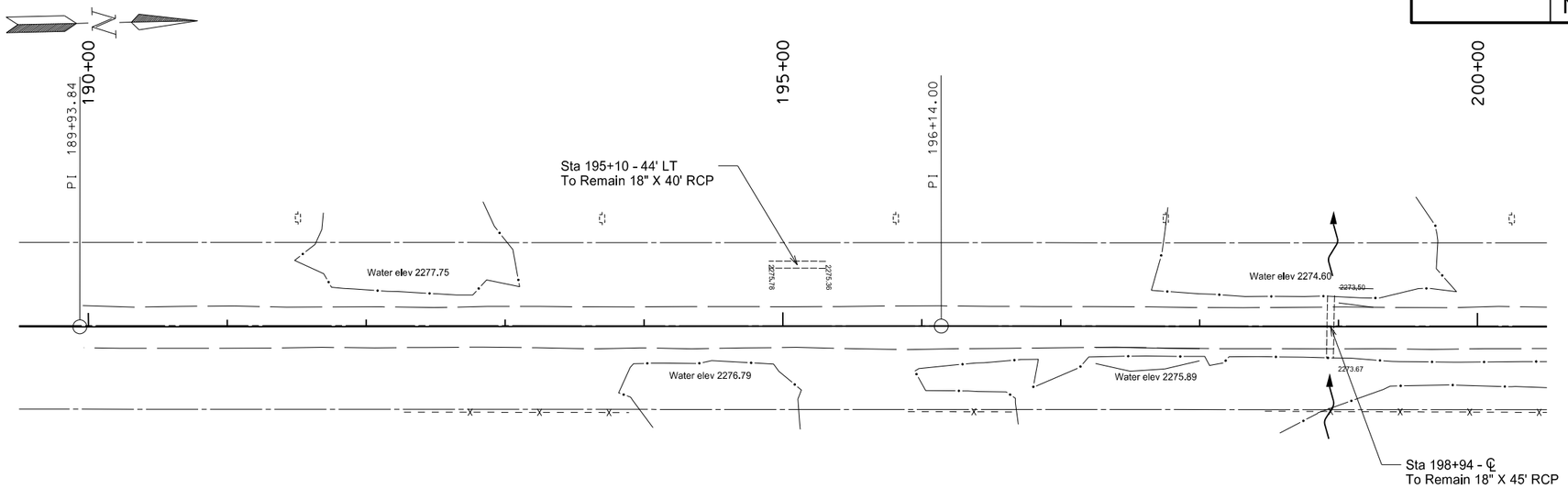
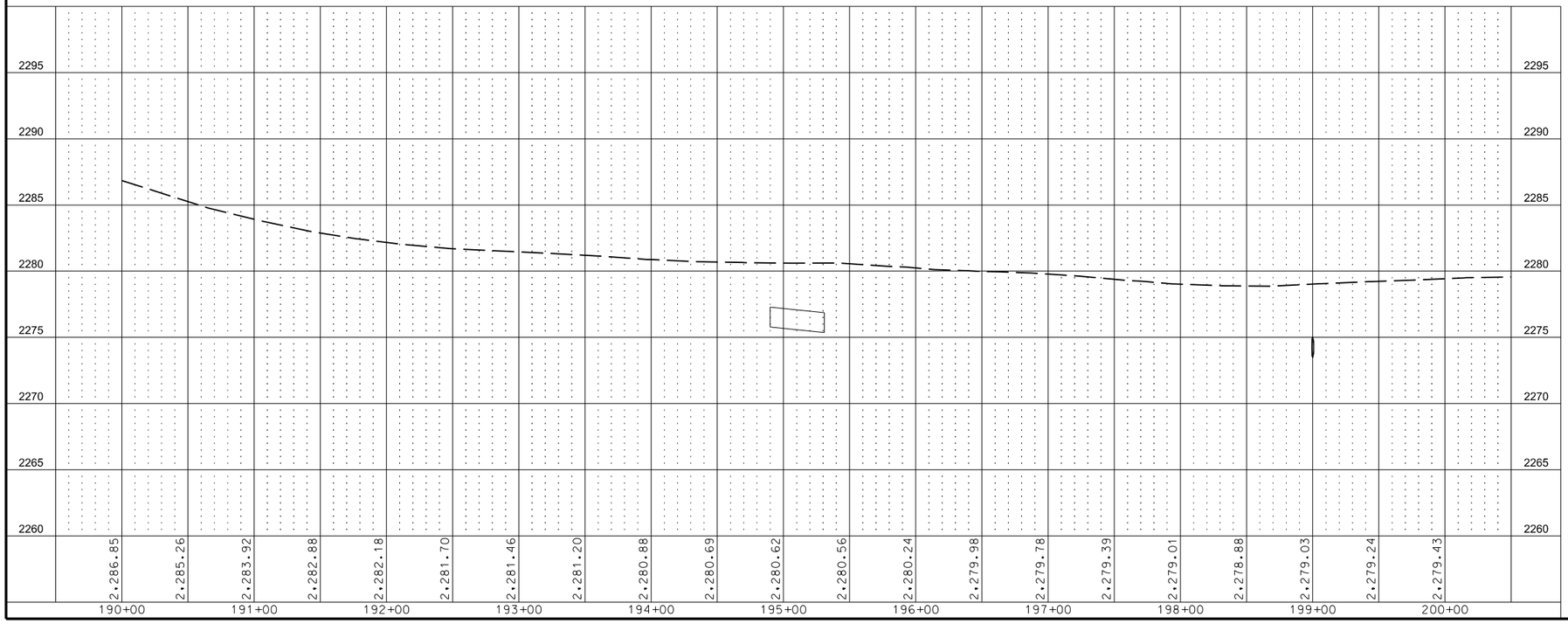
K7-8

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	27





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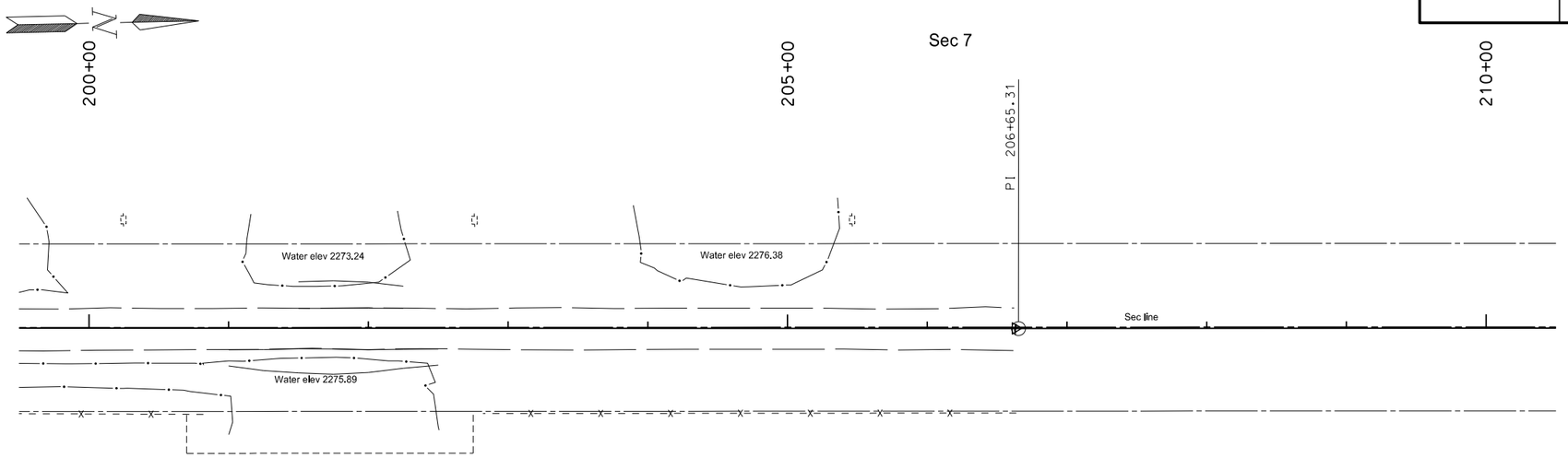
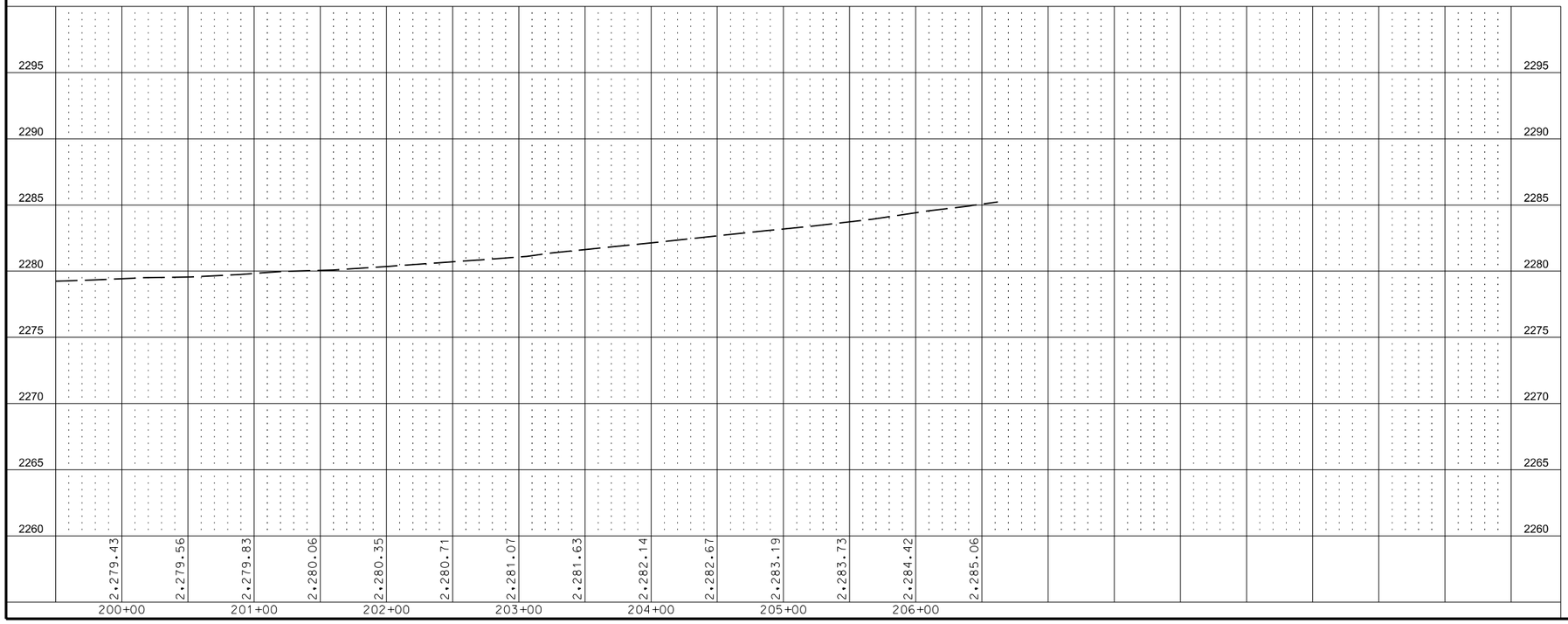
K7-9

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	28



Sec 8



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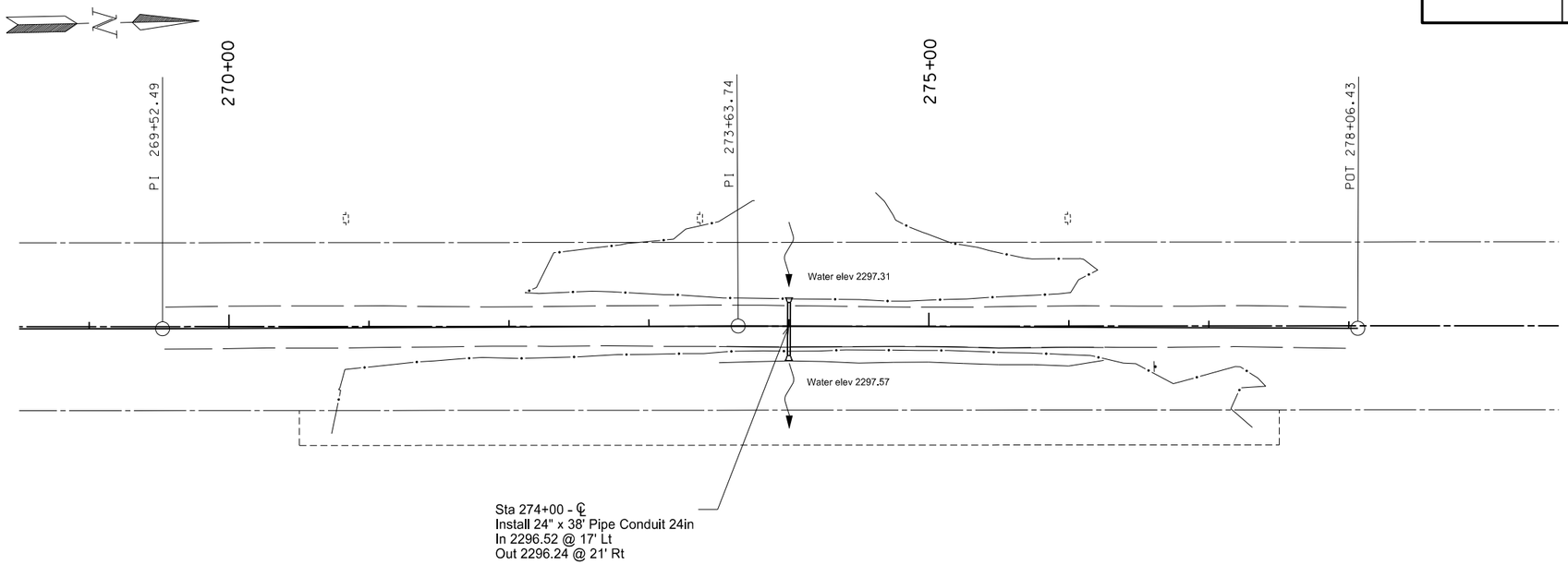
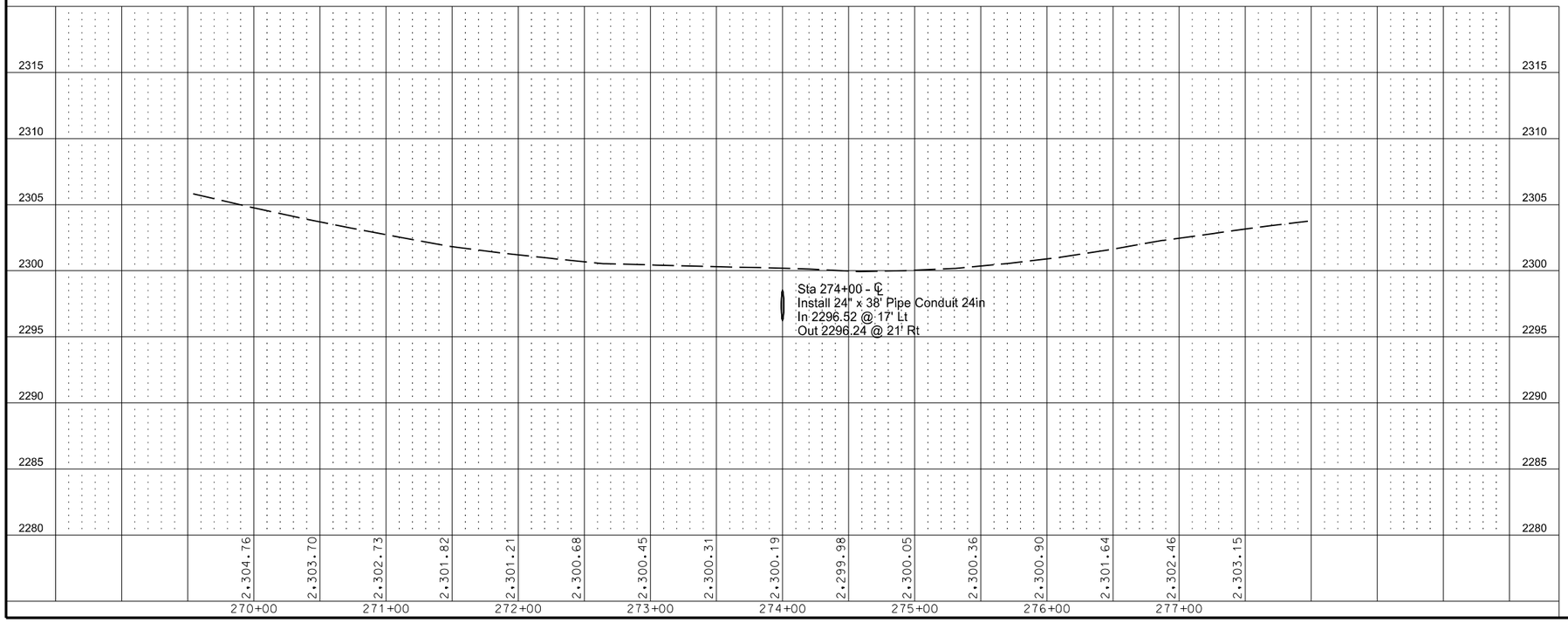
K7-9

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	60	29



PIPE CONDUIT 24IN — Qty
Sta 274+00 — 38 LF



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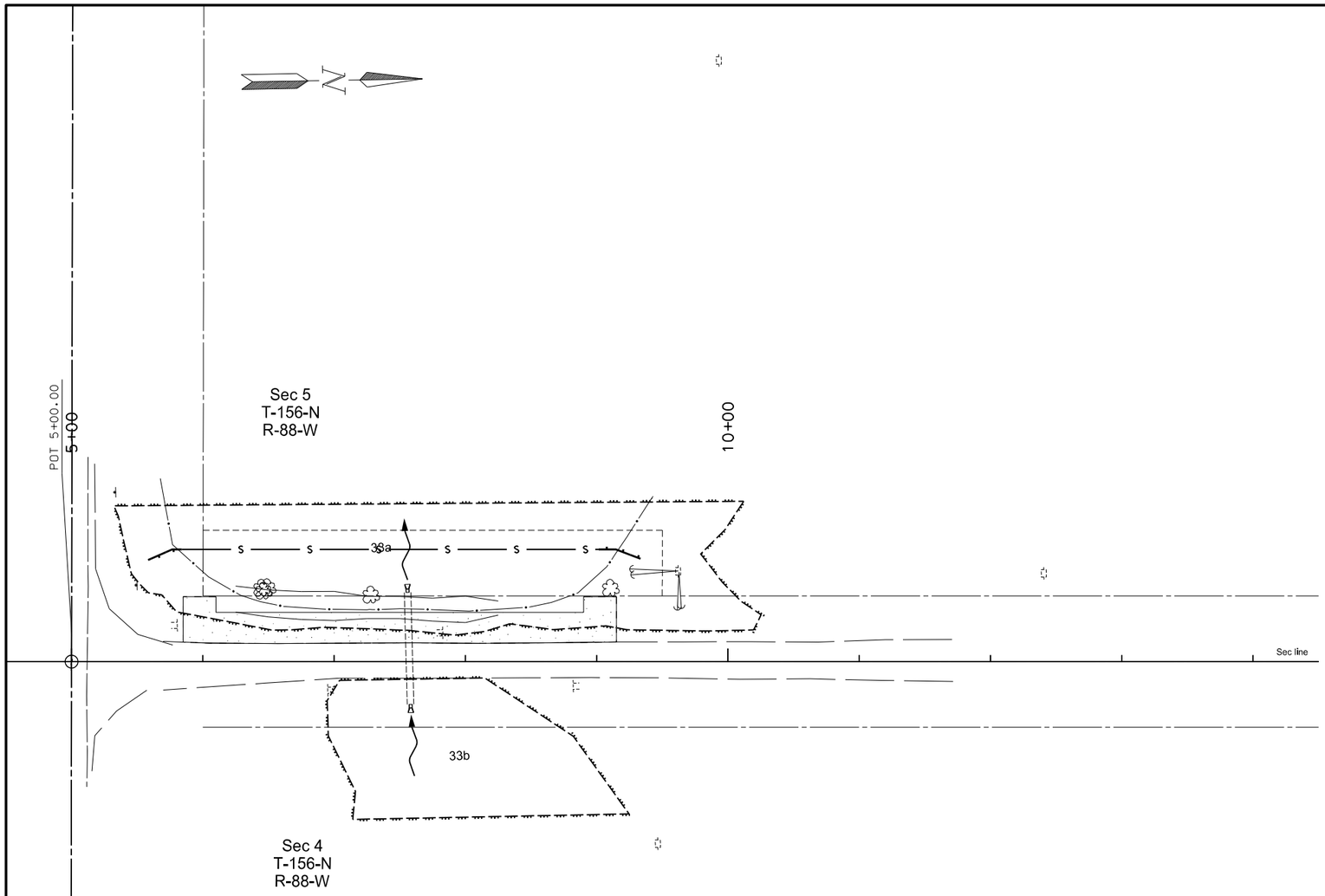
K7-10

Mountrail County

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	1



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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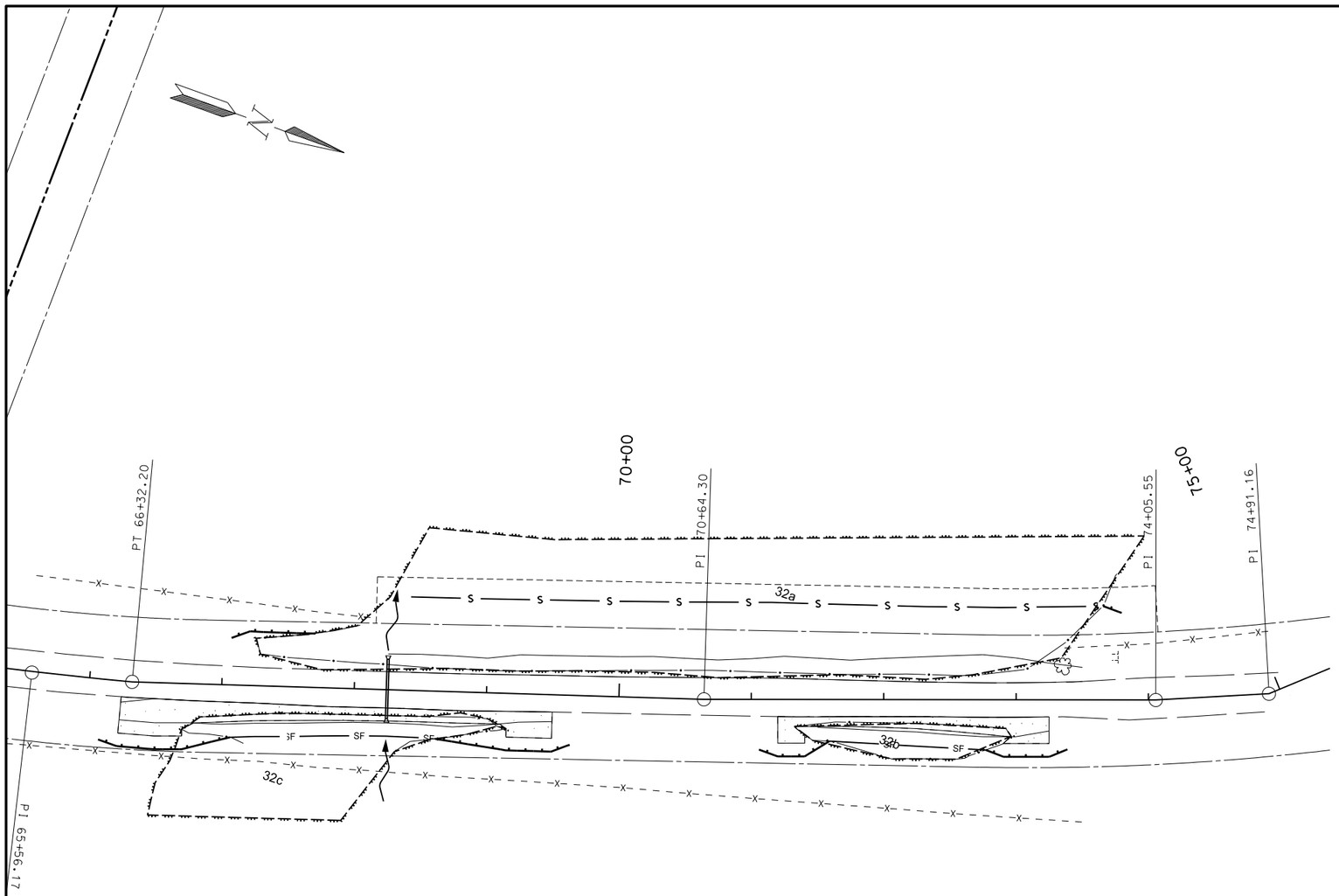
J10-1

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	2



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MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF TEMPORARY SILT FENCE UNSUPPORTED

S TEMPORARY SILT CURTAIN

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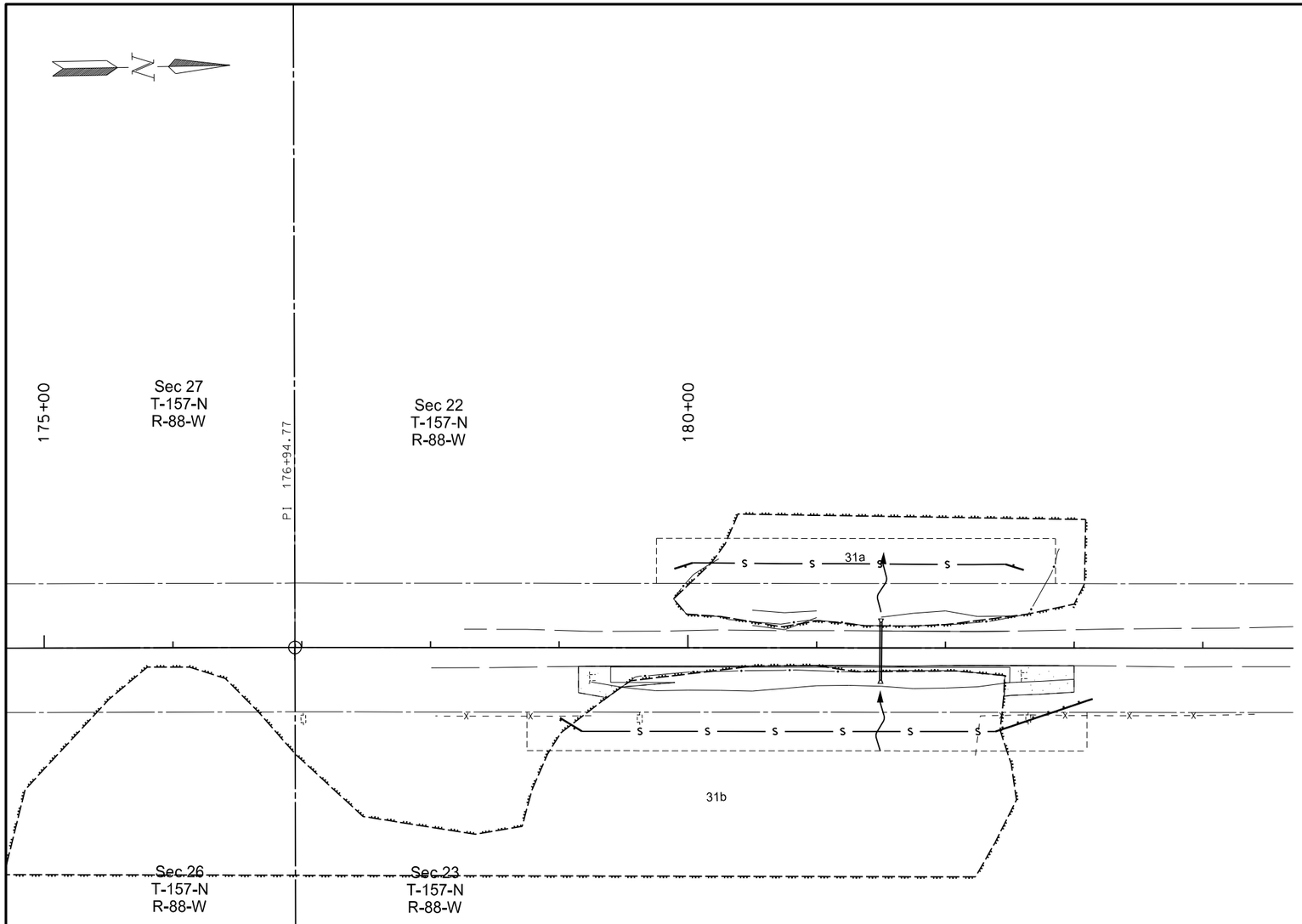
J10-2

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	3



See sheets 28-31 for quantities

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TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

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J10-3

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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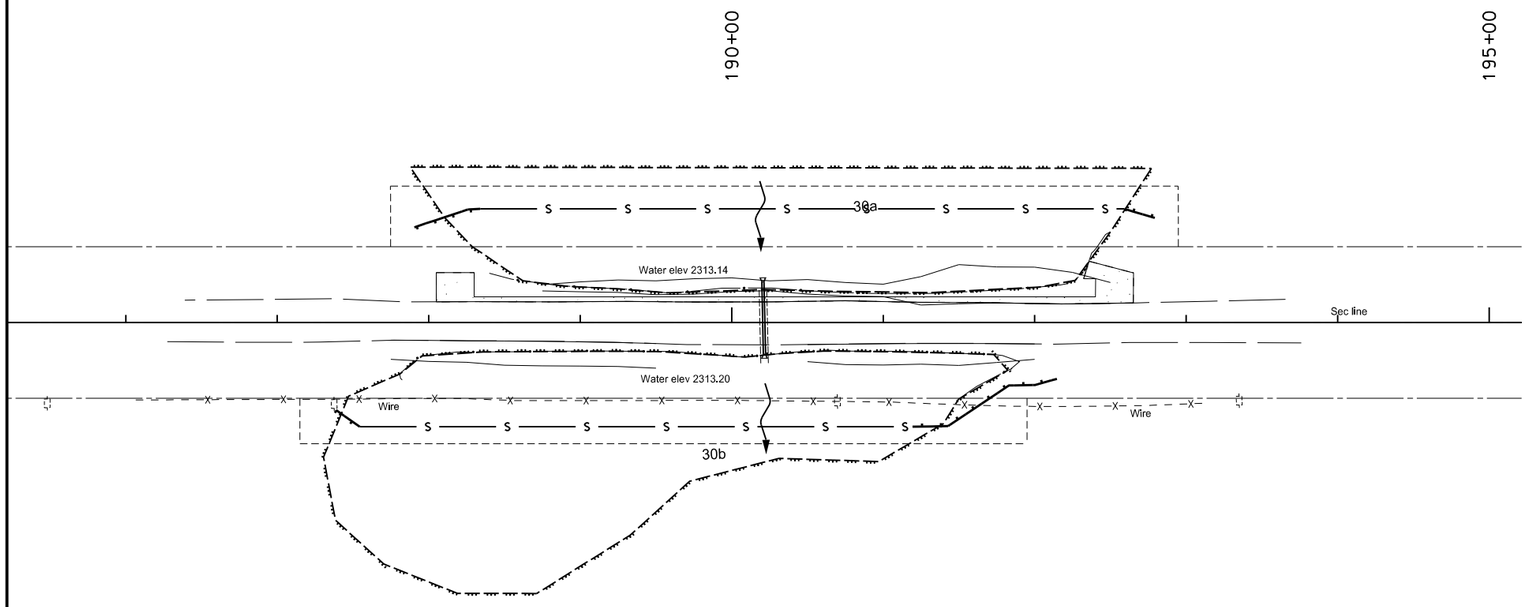

See sheets 28-31 for quantities

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TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

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J10-4

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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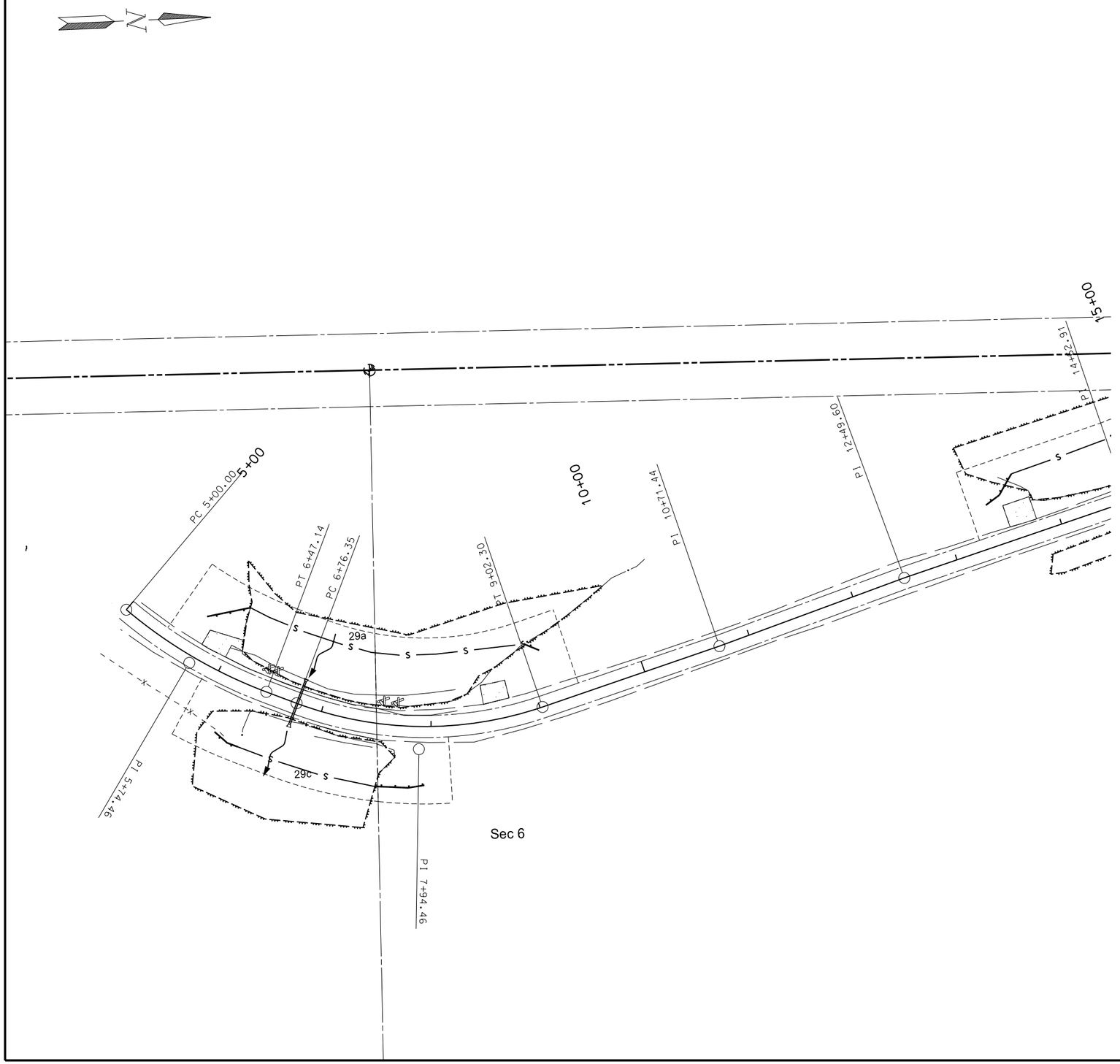

See sheets 28-31 for quantities

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TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

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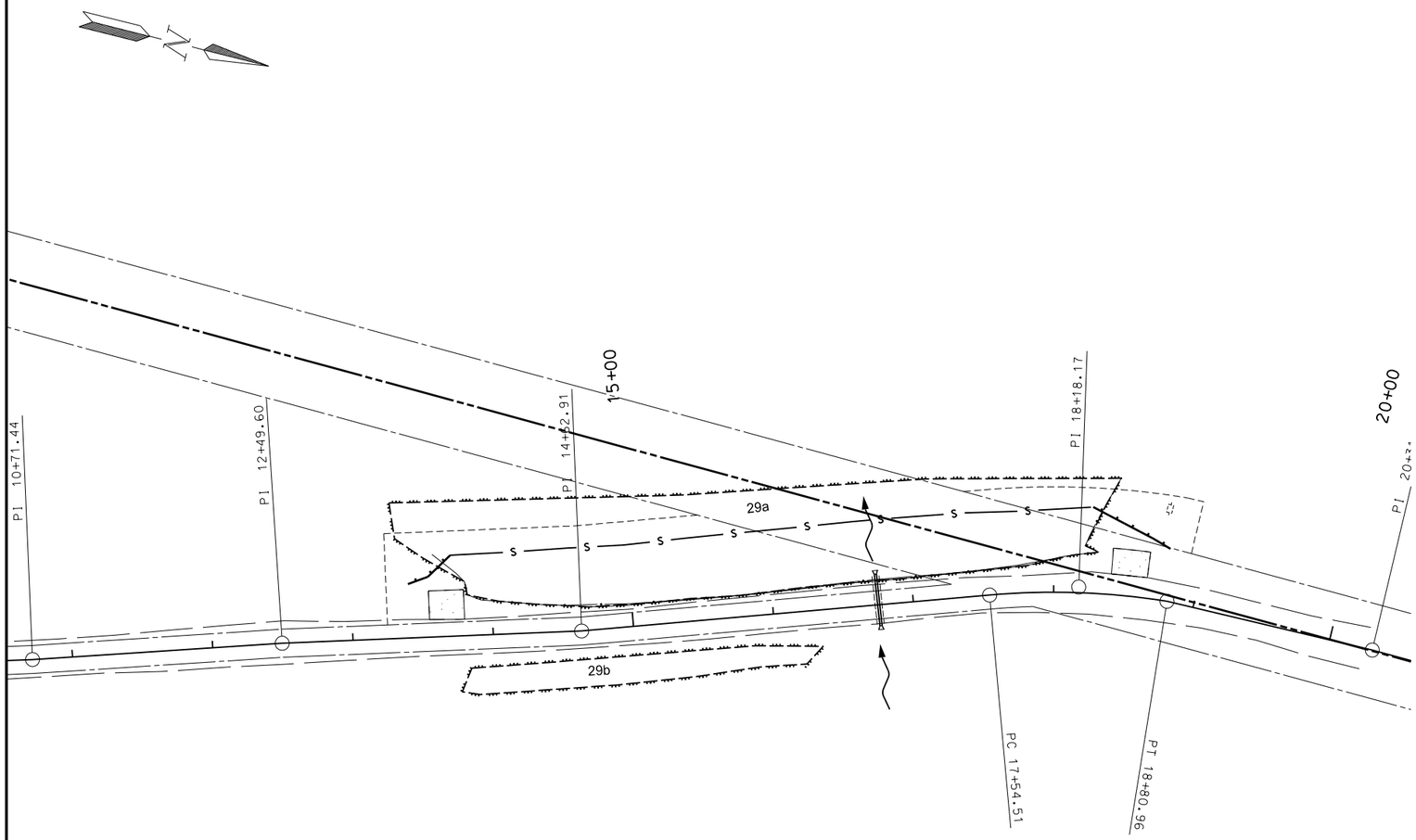
K6S-1

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	6



See sheets 28-31 for quantities

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TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

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K6S-2

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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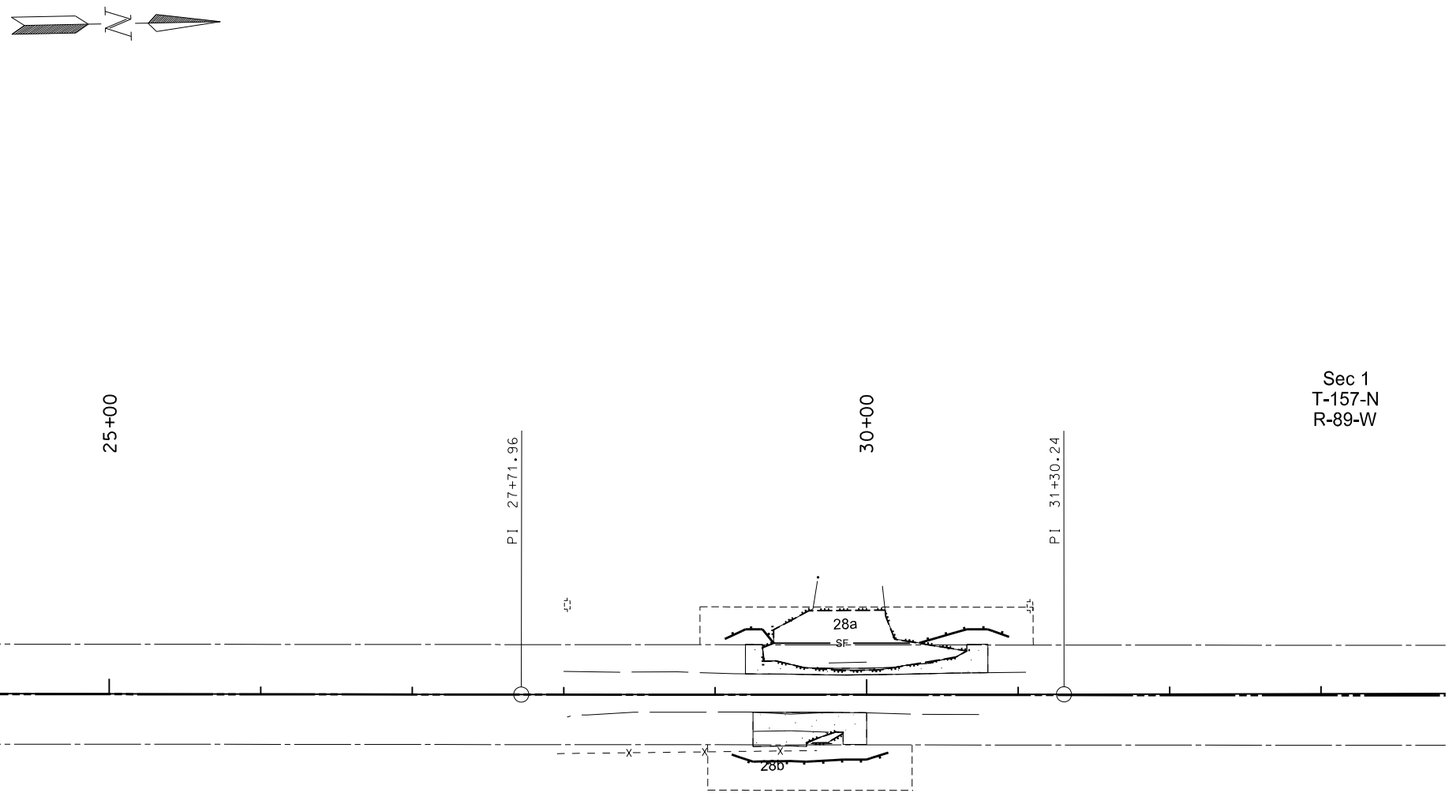

Sec 1
T-157-N
R-89-W

Sec 6
T-157-N
R-88-W

See sheets 28-31 for quantities

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Temporary Erosion Control

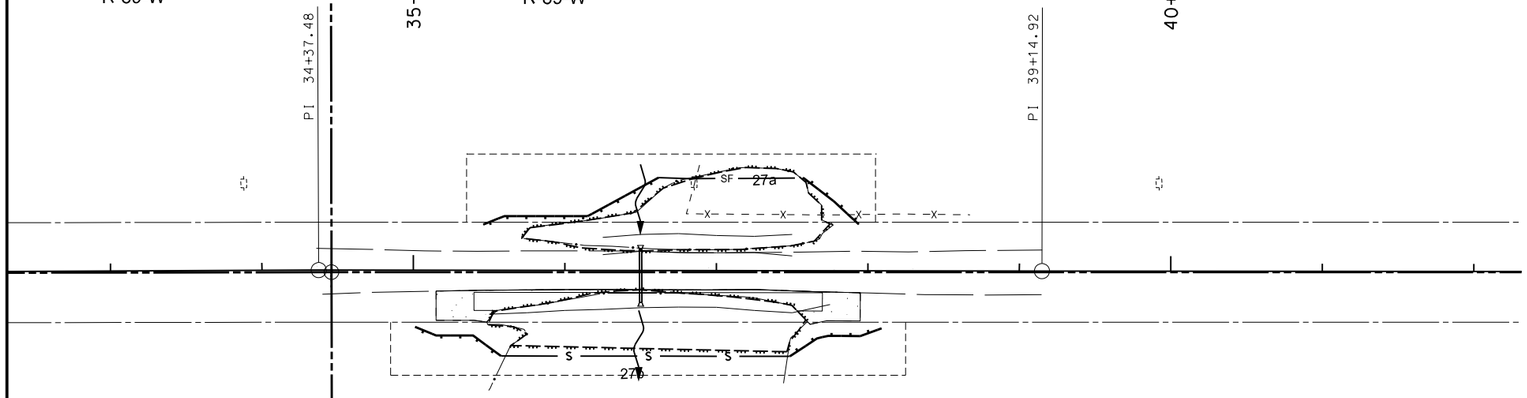
Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	8

Sec 1
T-157-N
R-89-W

Sec 36
T-158-N
R-89-W

Sec 6
T-157-N
R-88-W

Sec 31
T-158-N
R-88-W



See sheets 28-31 for quantities

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TEMPORARY FIBER ROLLS

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K6S-4

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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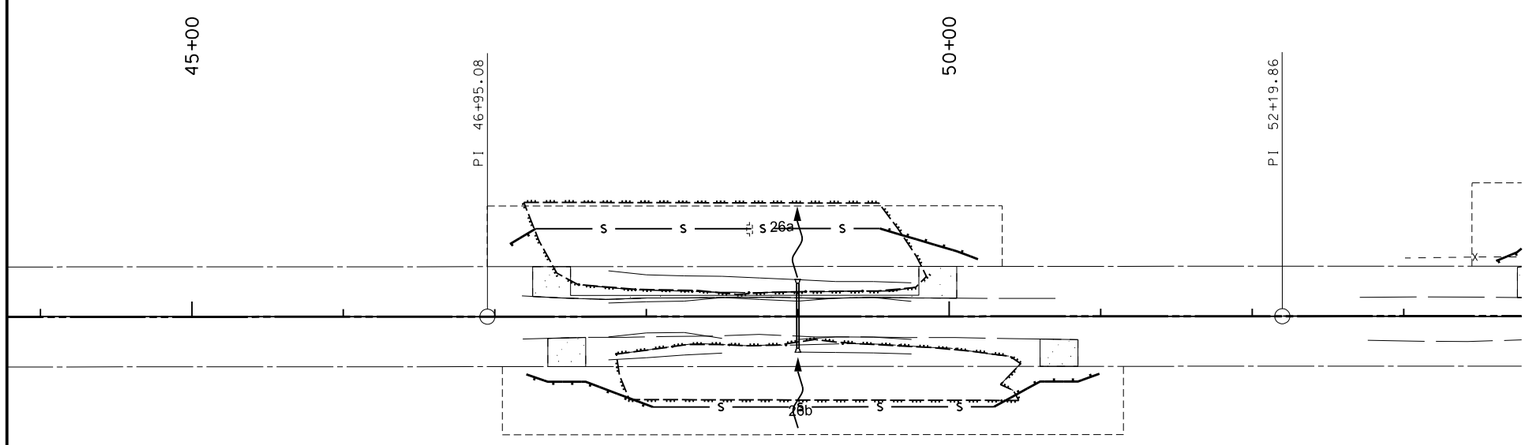

See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

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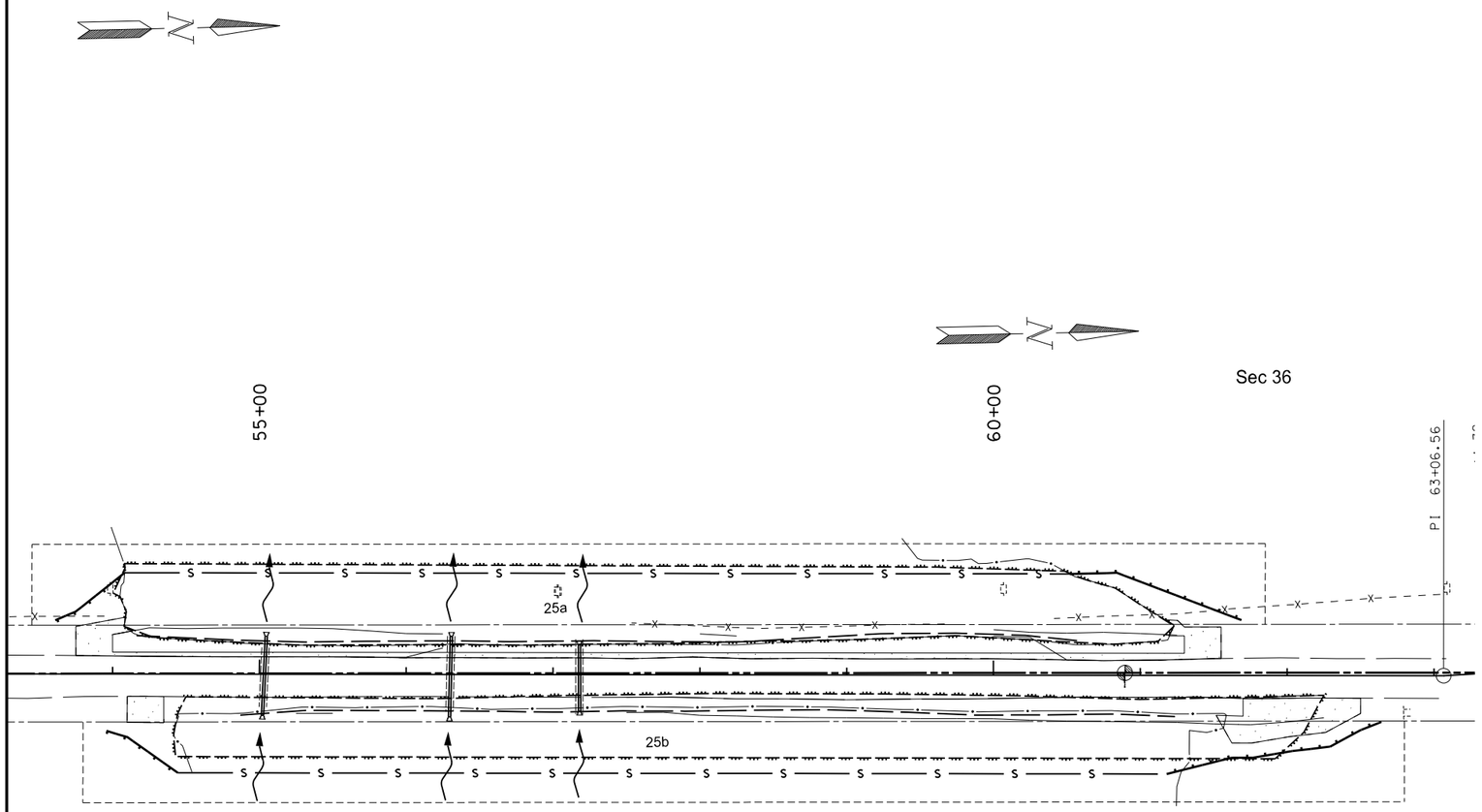
K6S-5

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	10



Sec 31

See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

TEMPORARY SILT FENCE UNSUPPORTED

TEMPORARY SILT CURTAIN

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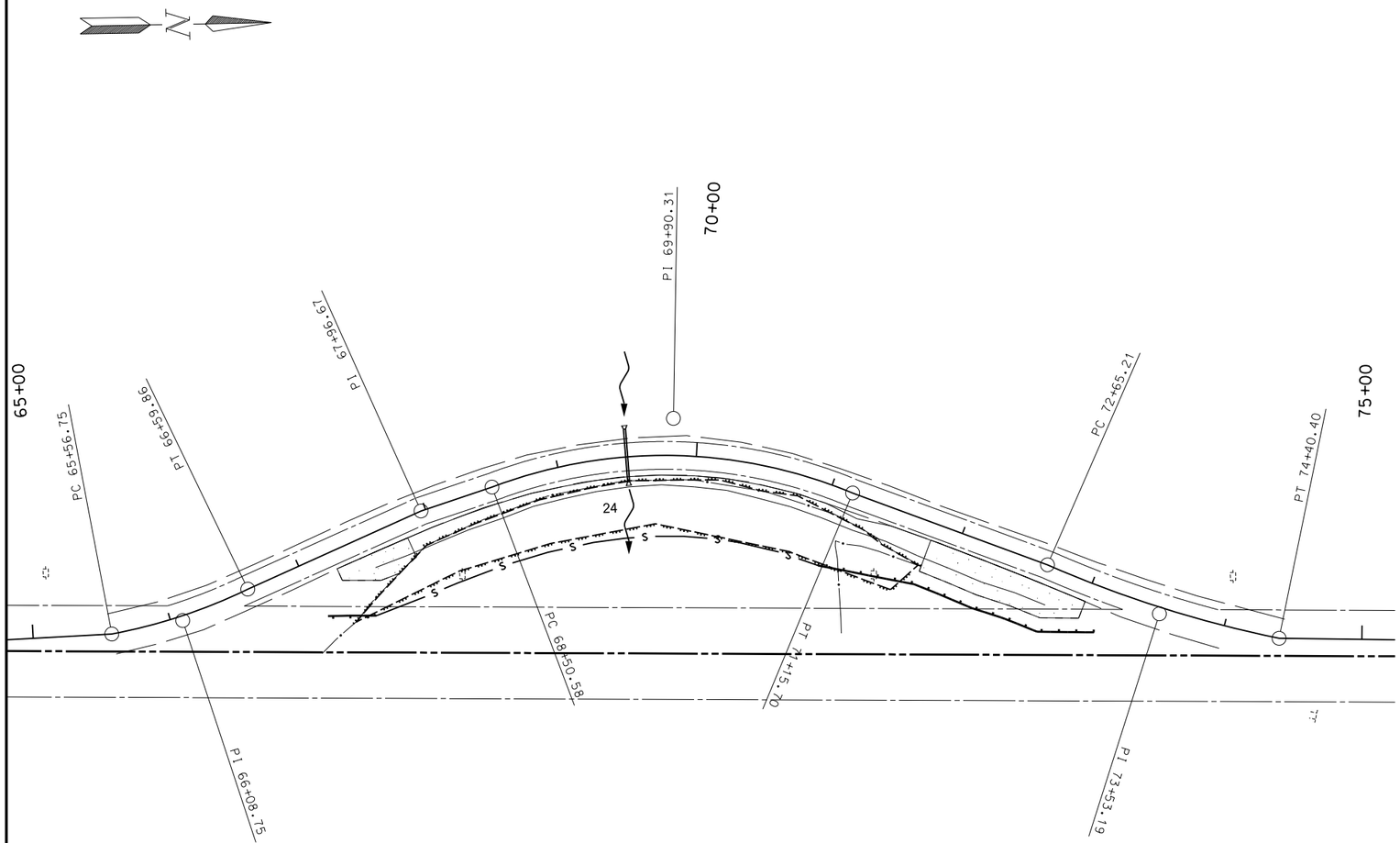
K6S-6

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	11



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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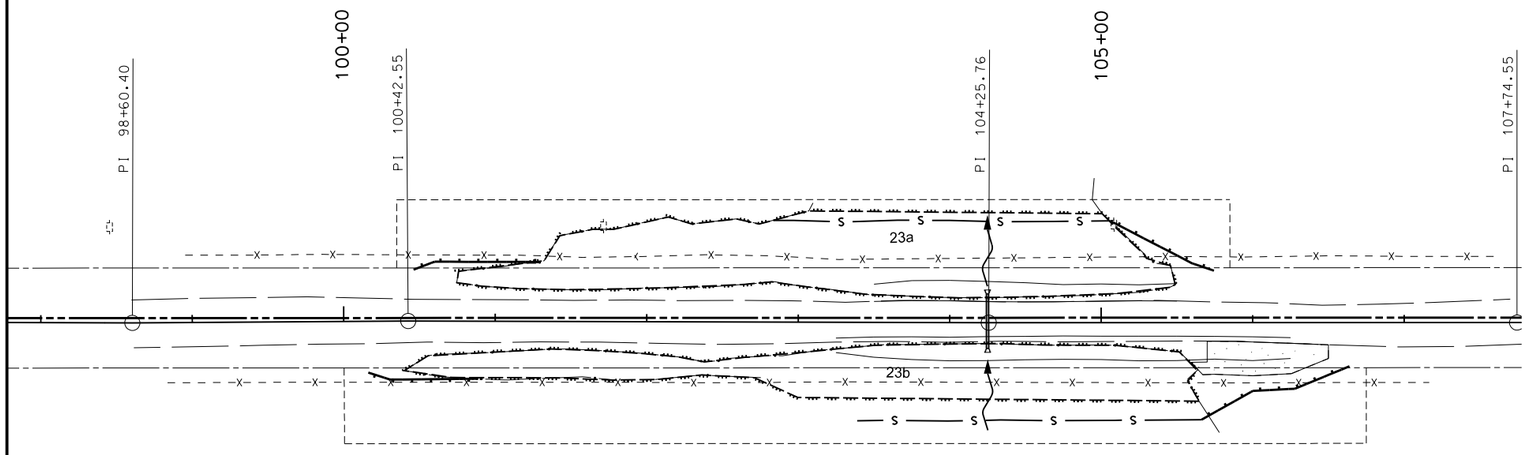
K6S-7

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	12



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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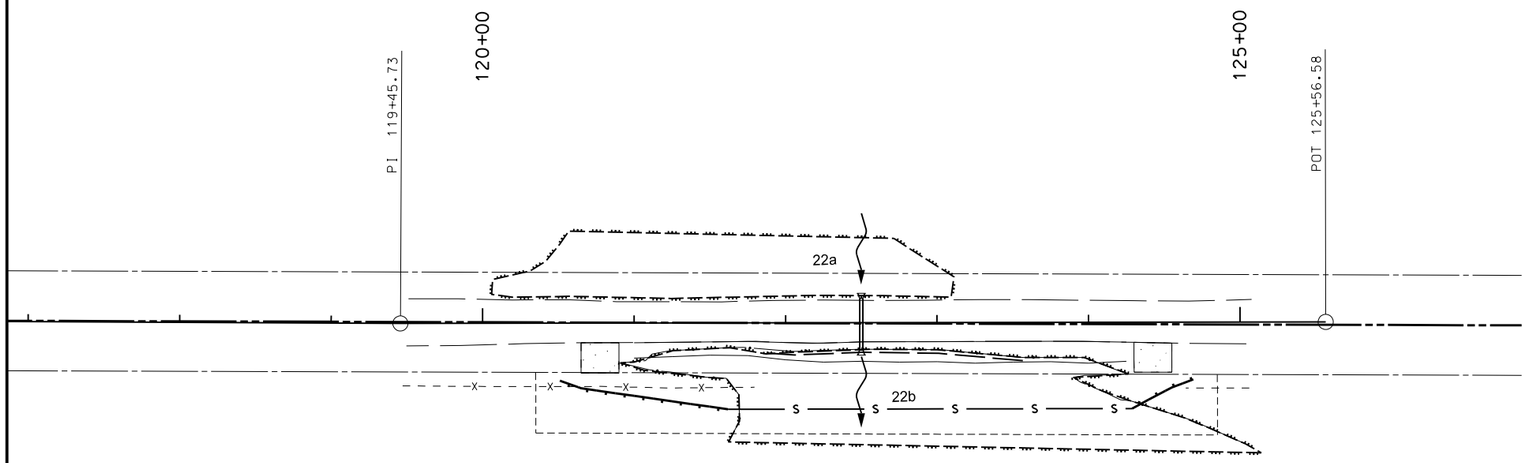
K6S-8

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	13



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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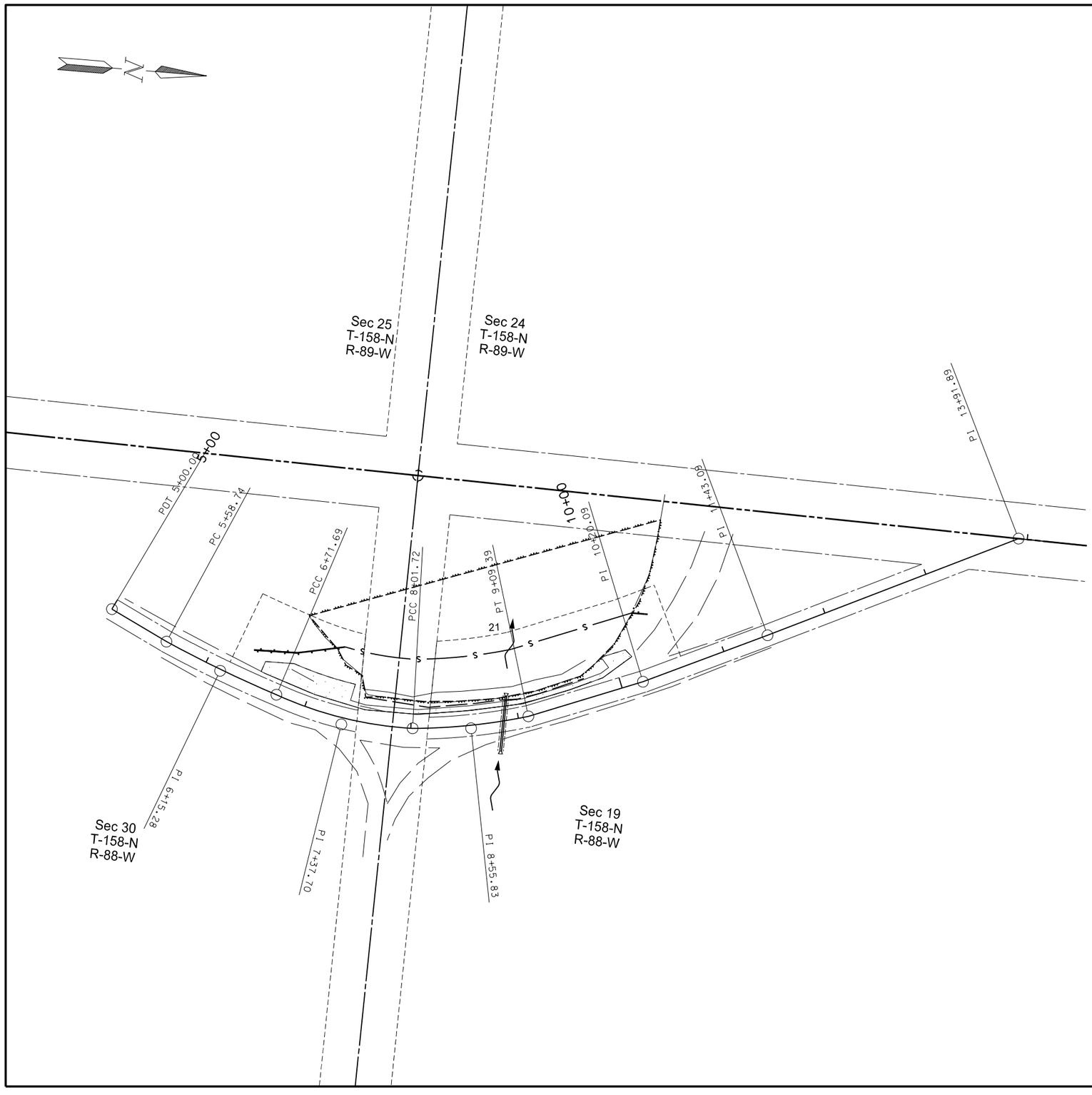
K6S-9

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	14



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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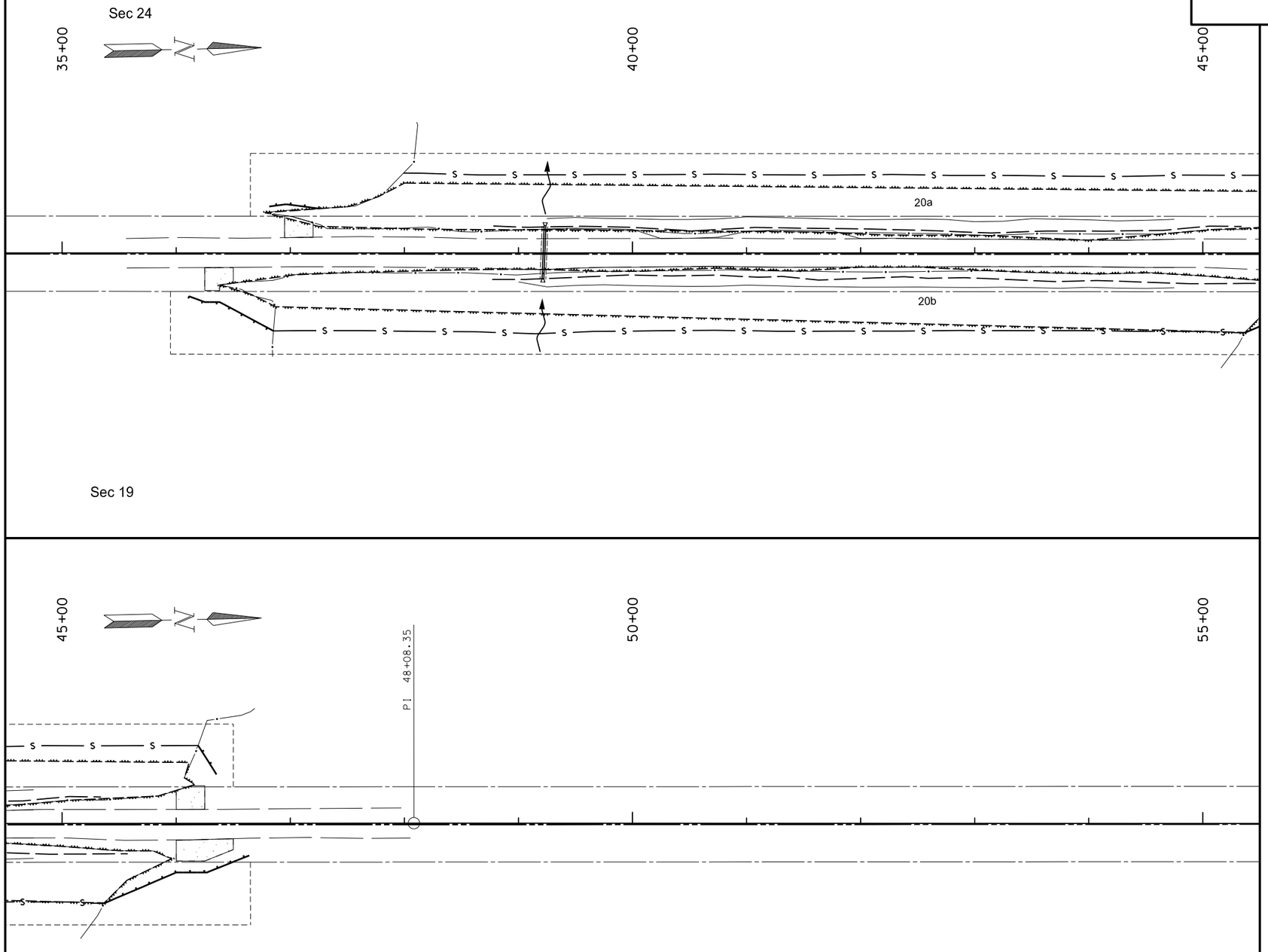
K6N-1

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	15



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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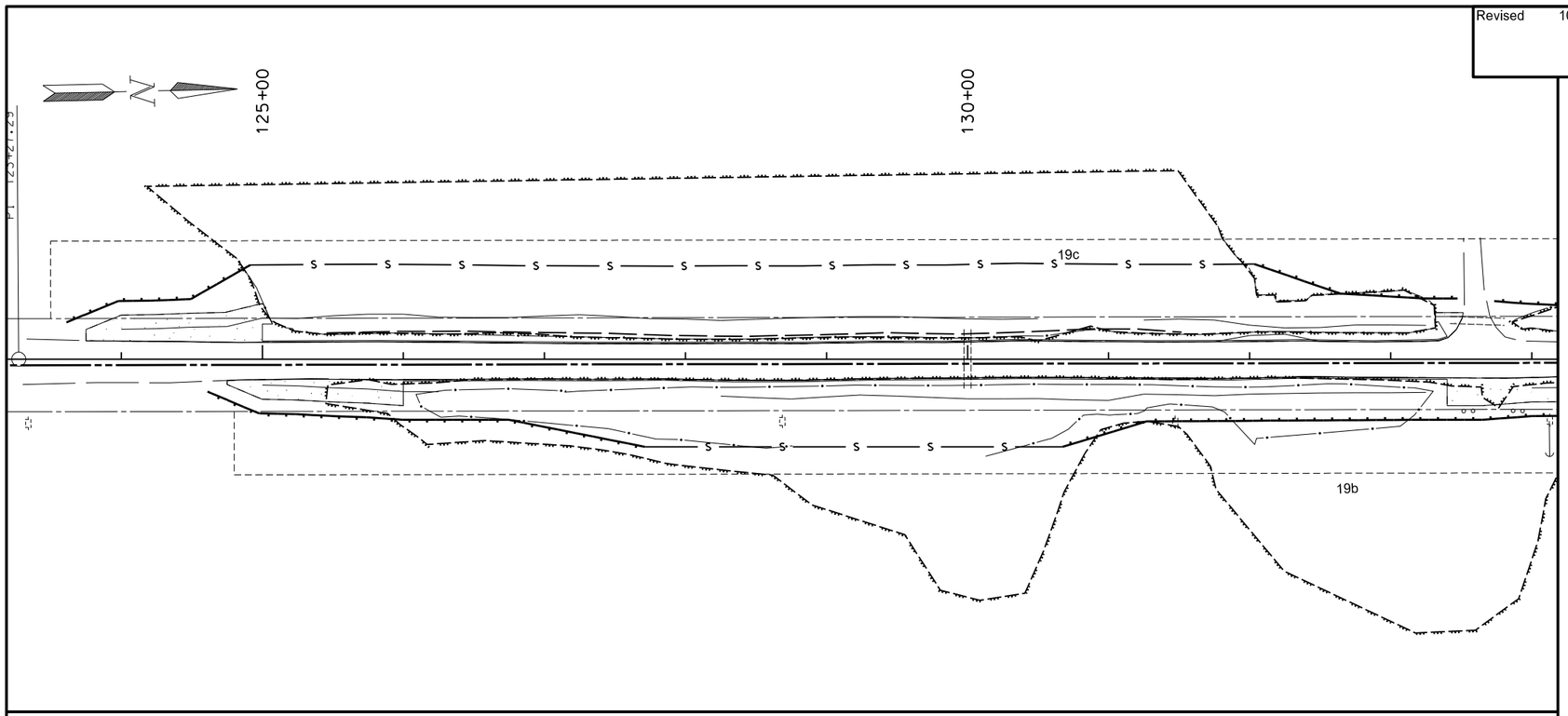
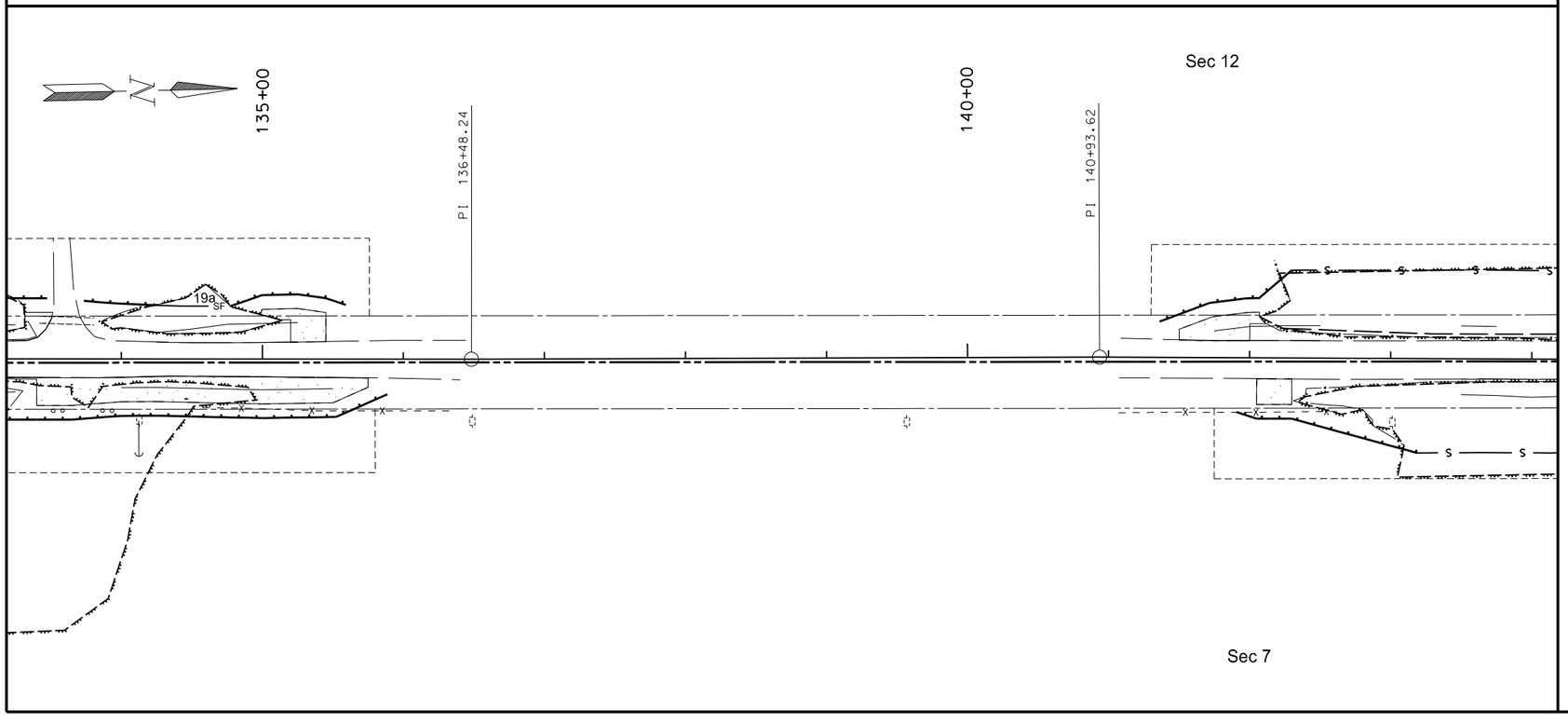
K6N-2

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	16





See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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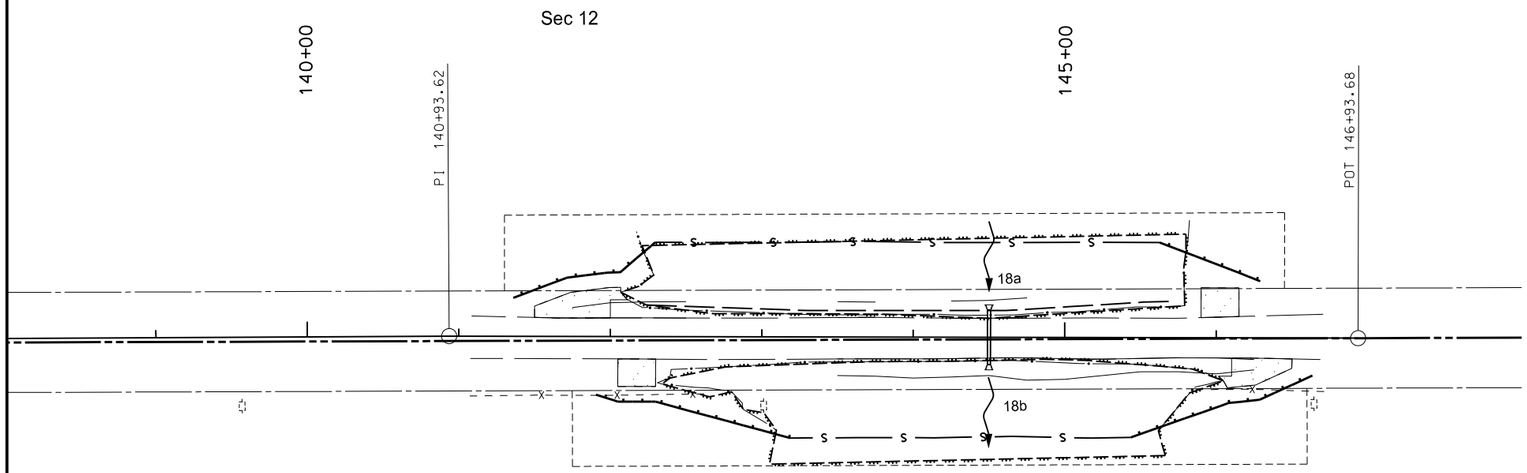
K6N-3

Temporary Erosion Control

10/29/2017 7:04:57 PM cschatz N:\20732\ROM-0300(135)\Design\Mountrail\076_TempEC\076WL_016.dgn

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	17



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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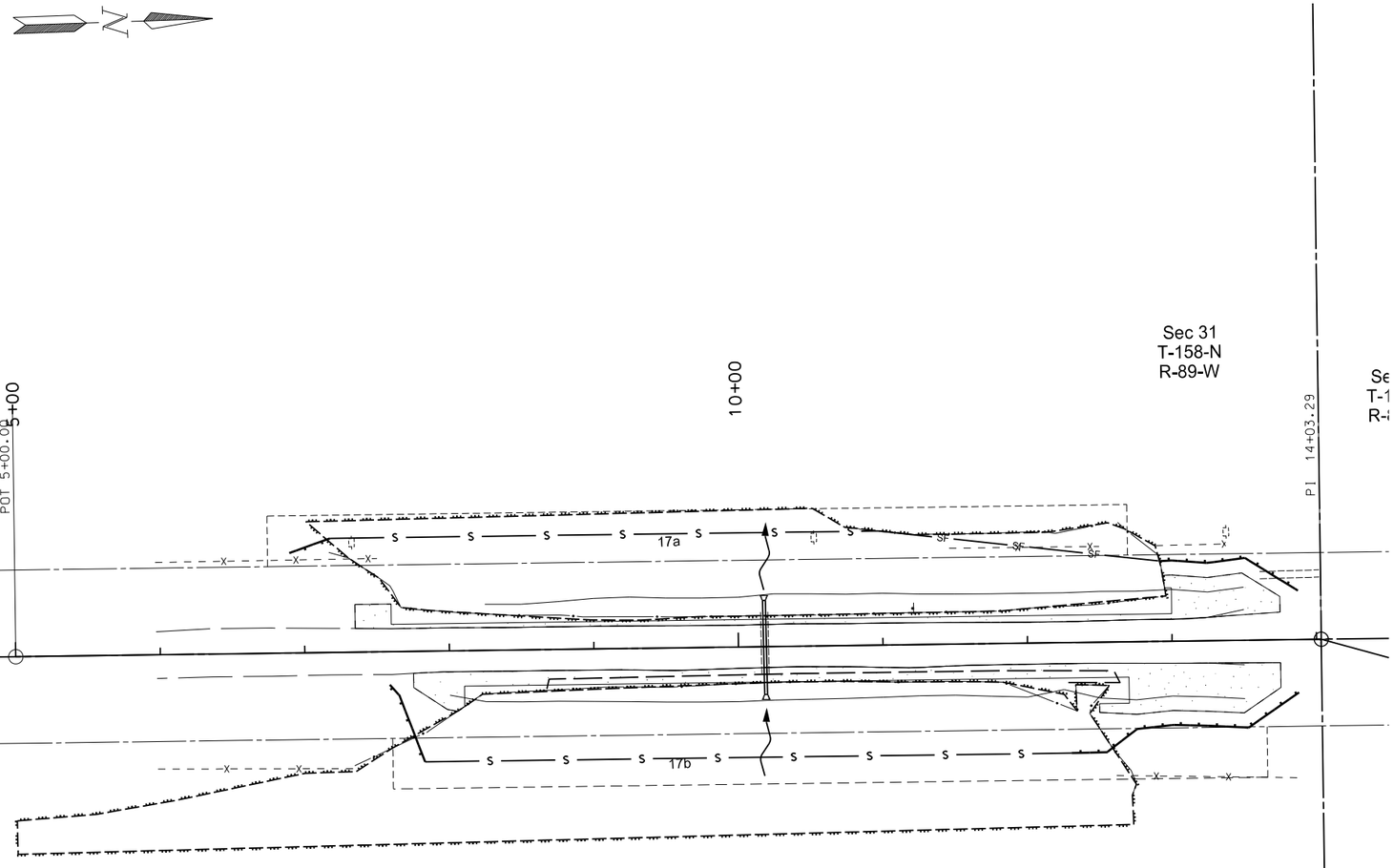
K6N-4

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	18



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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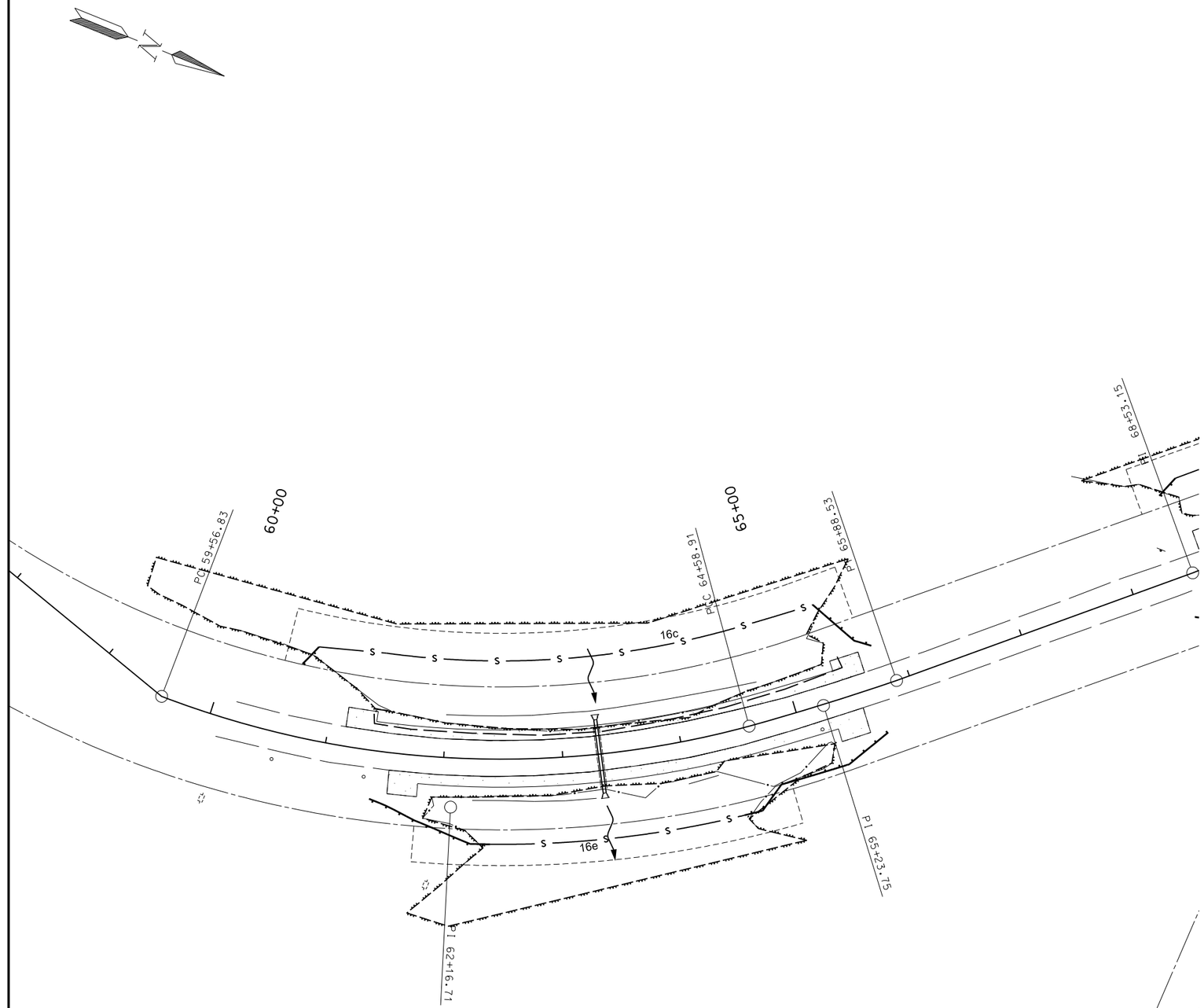
K7-1

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	19



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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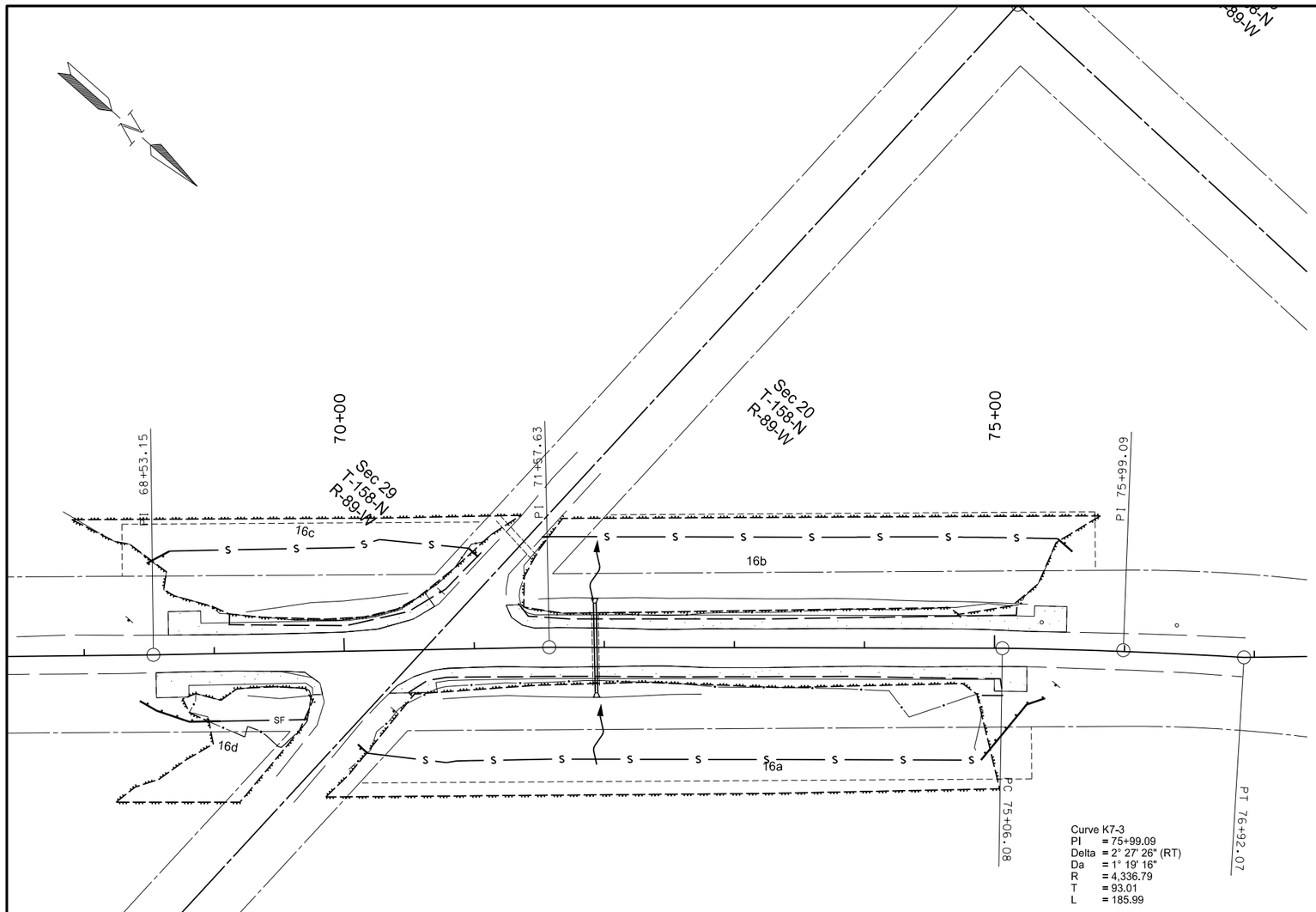
K7-2

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	20



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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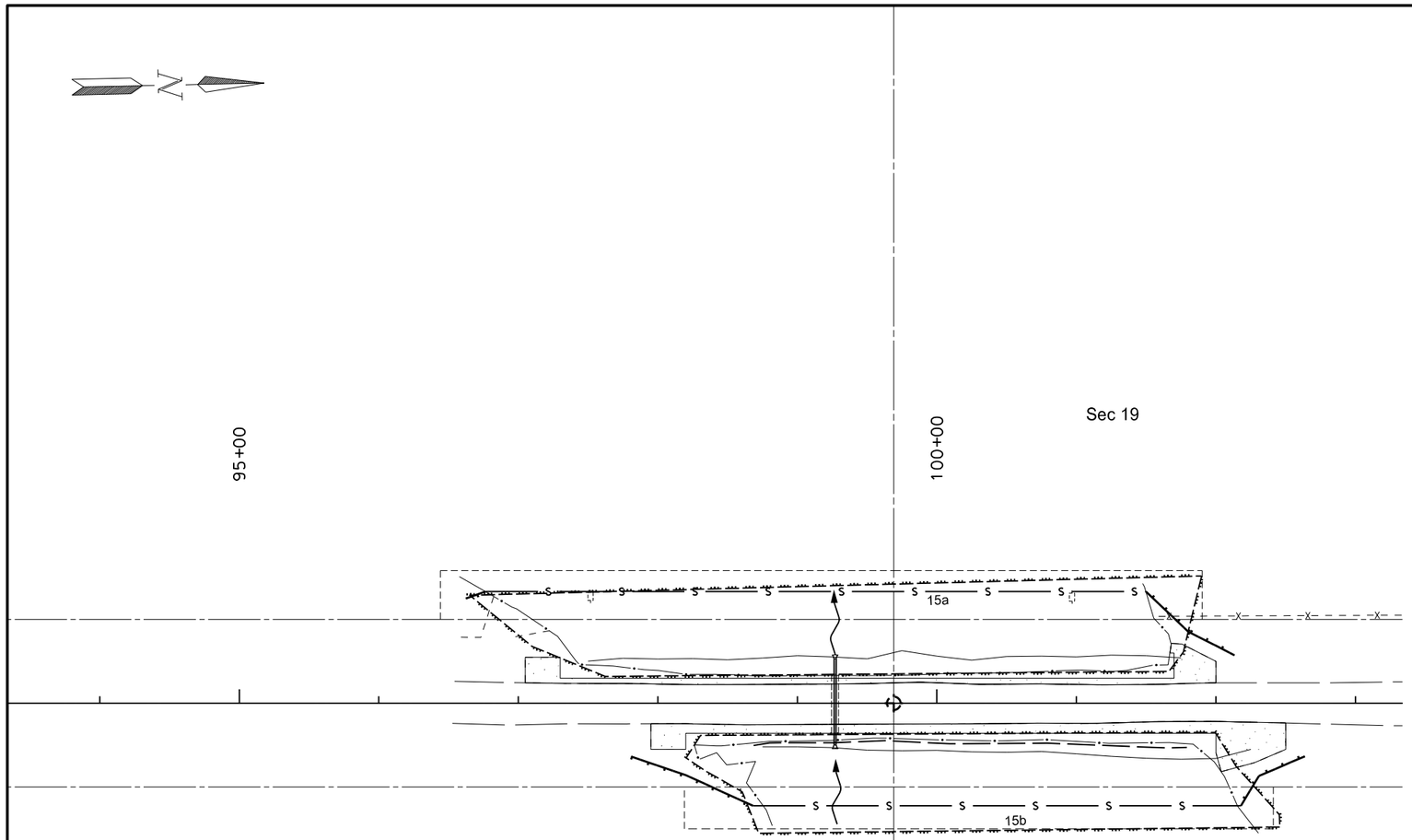
K7-3

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	21



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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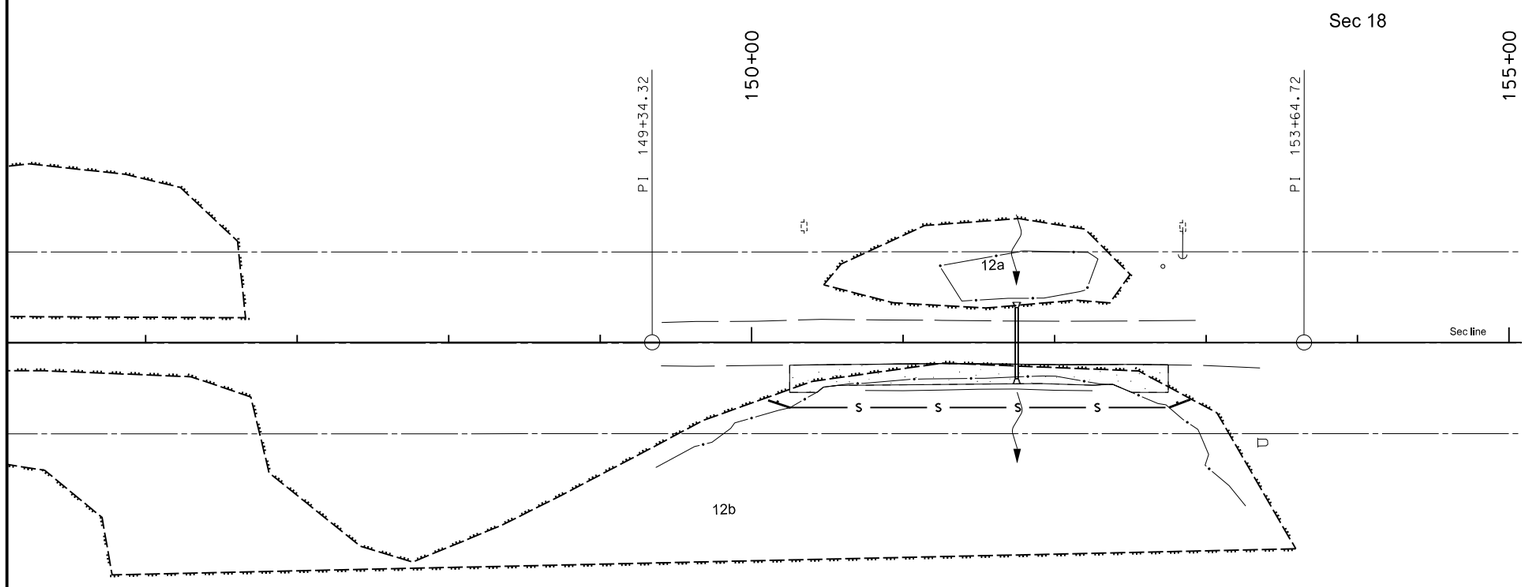
K7-4

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	24



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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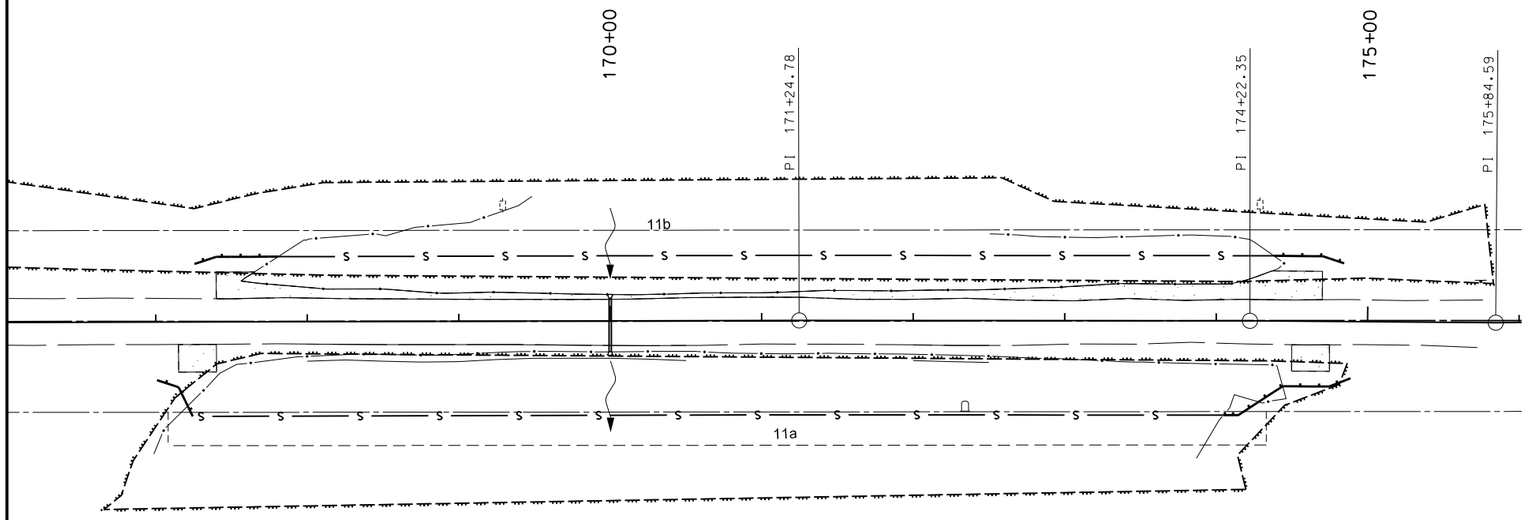
K7-7

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	25



See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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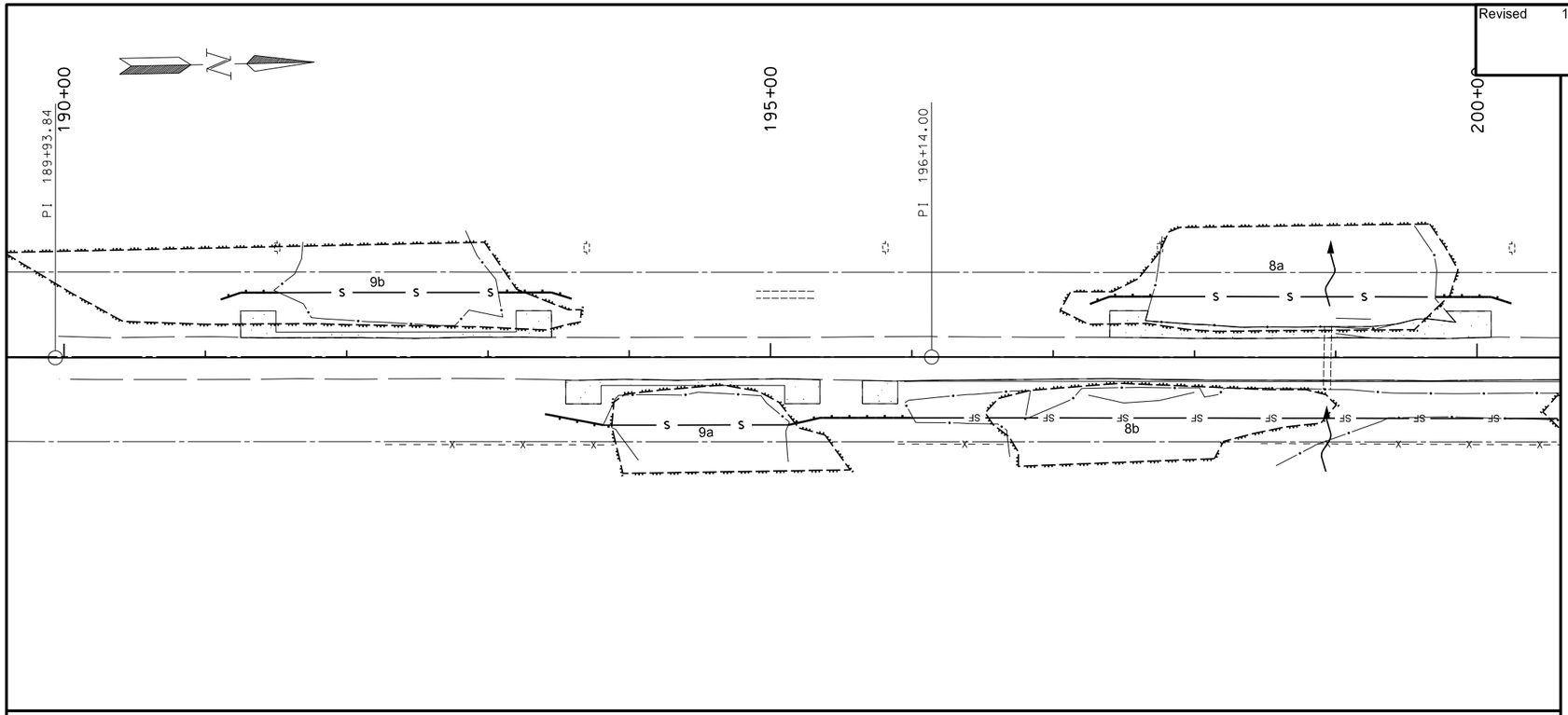
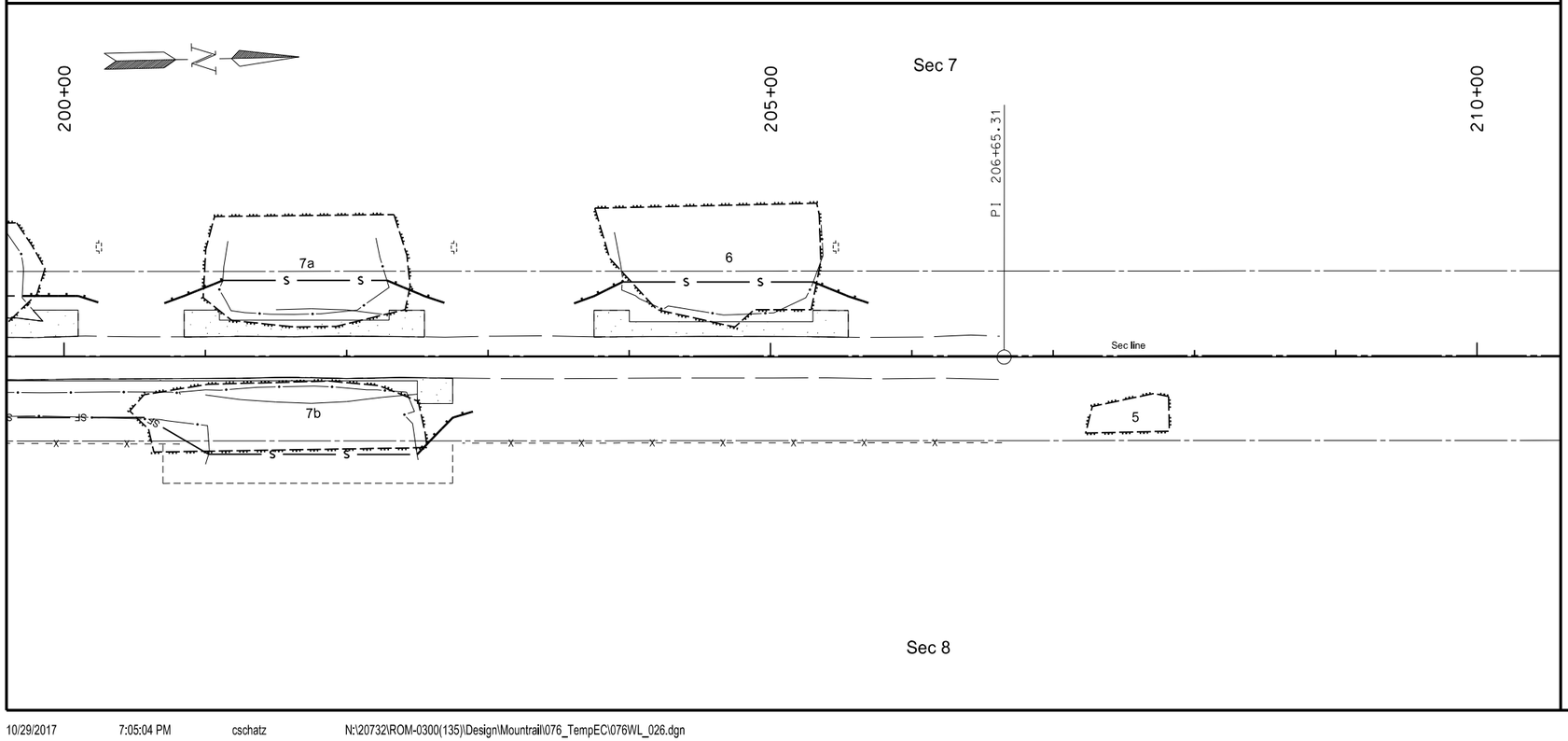
K7-8

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	76	26





See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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K7-9

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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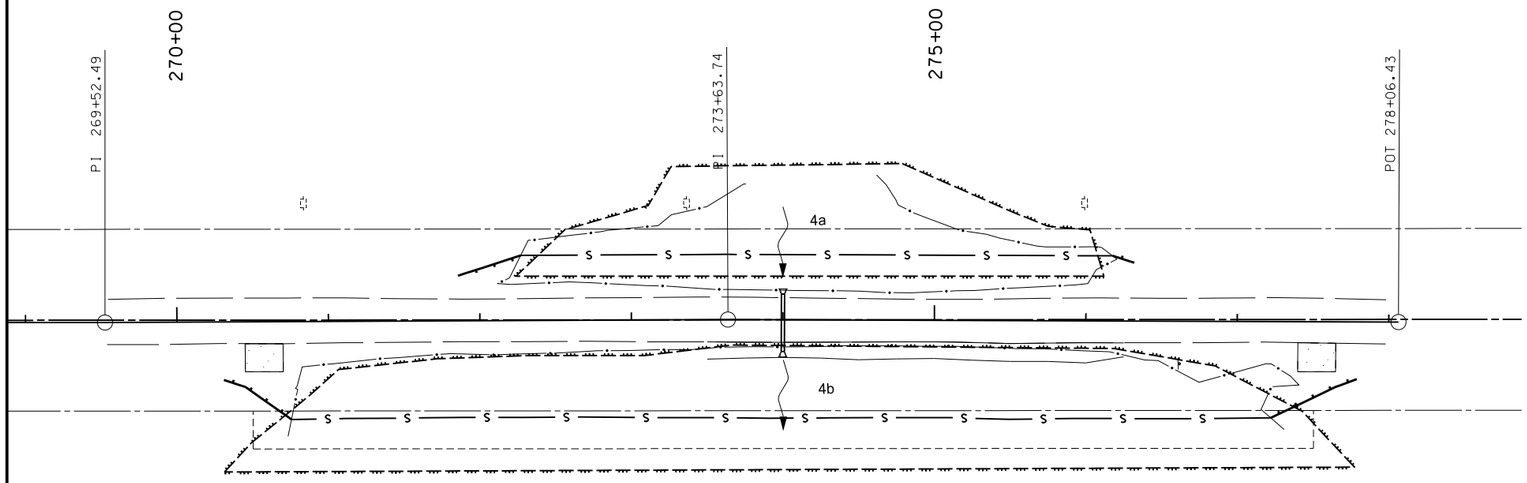

See sheets 28-31 for quantities

MULCHING/TEMPORARY COVER CROP

TEMPORARY FIBER ROLLS

SF — TEMPORARY SILT FENCE UNSUPPORTED

S — TEMPORARY SILT CURTAIN

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K7-10

Temporary Erosion Control

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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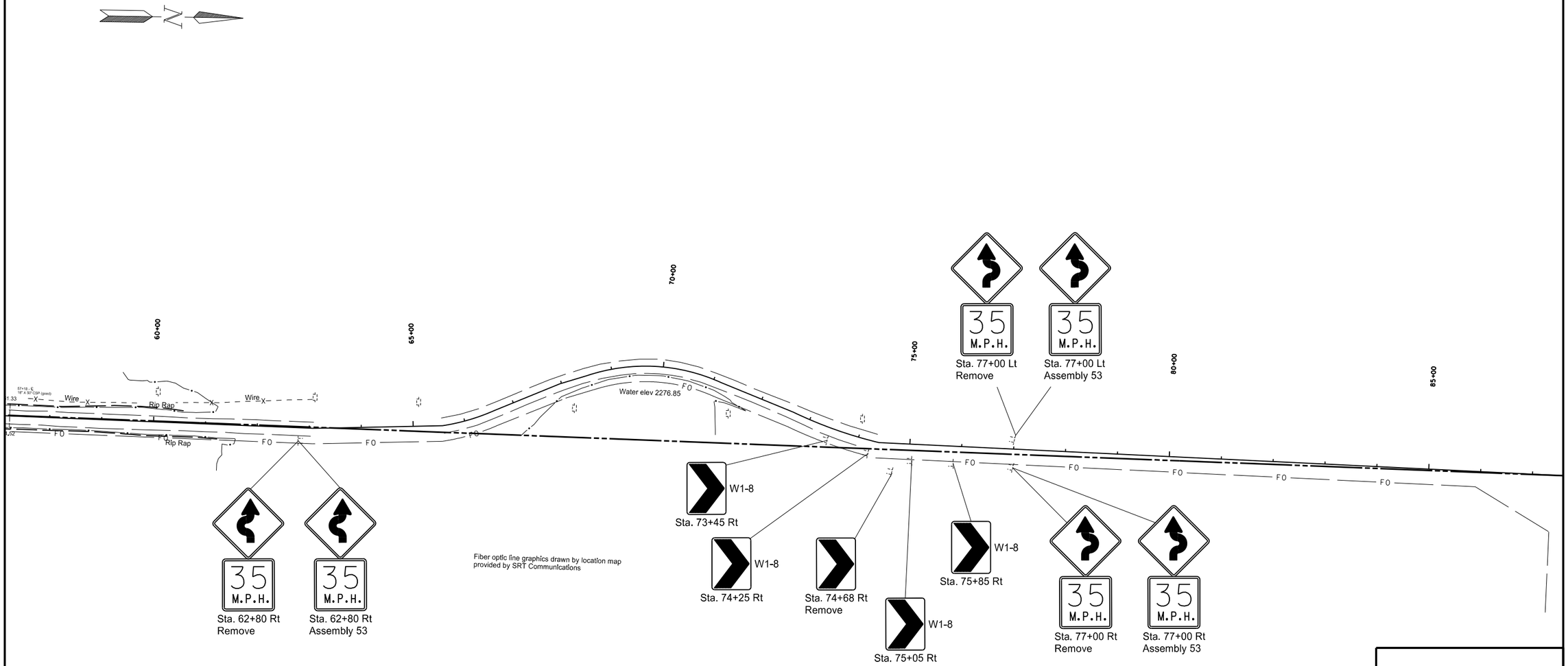

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K6S

Sign Layout

Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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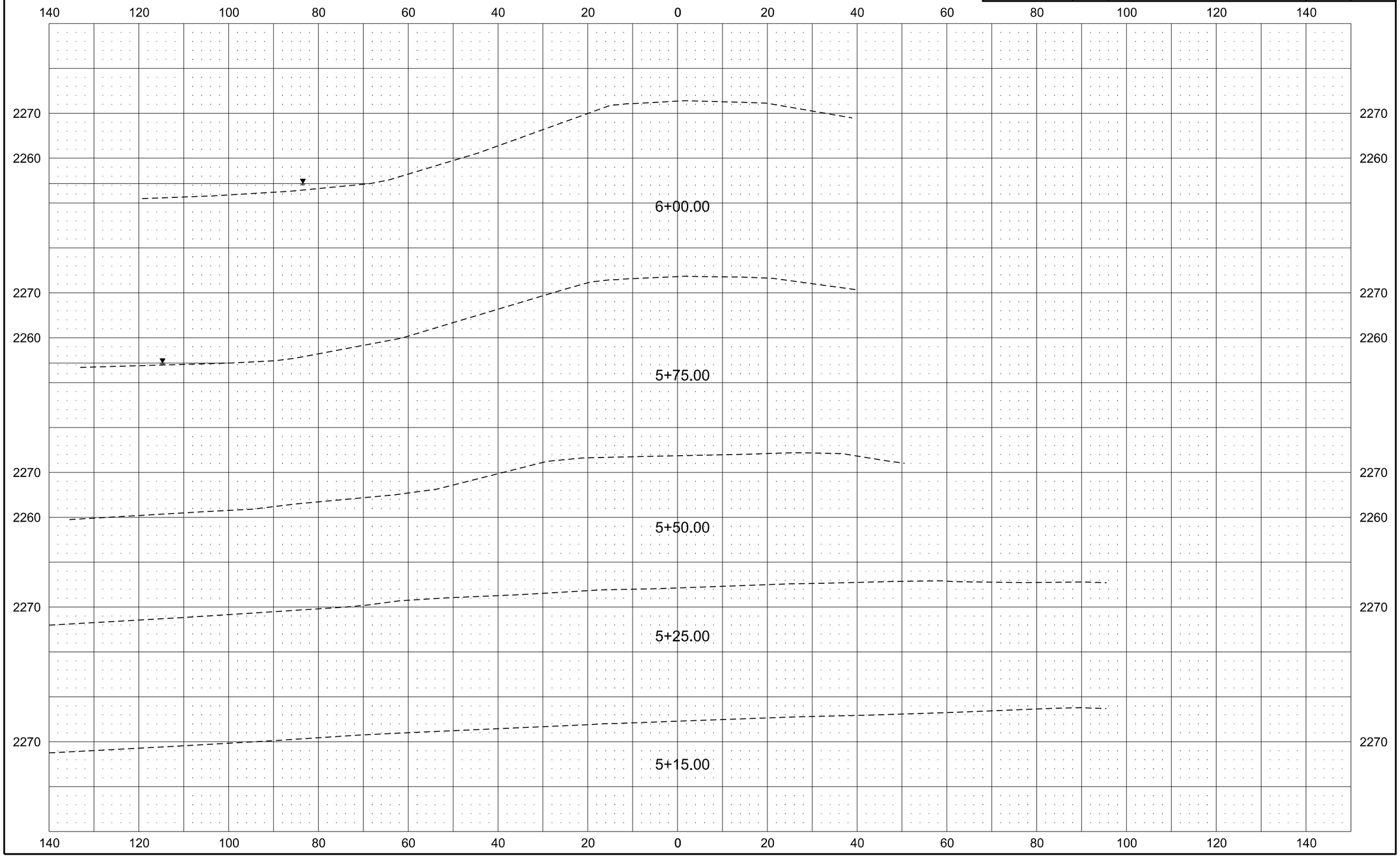


Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	2

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2260
2250

RW

7+00.00

2270
2260
2250

RW

6+75.00

2270
2260
2250

RW

6+50.00

2270
2260
2250

RW

6+25.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	3

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2260
2250

R/W

8+00.00

7+75.00

Sta 7+56 - ℄
Lt Install 24" RCP FES
Rt Install 24" RCP FES
In 2256.99 @ 35' Rt
Out 2250.78 @ 55' Lt

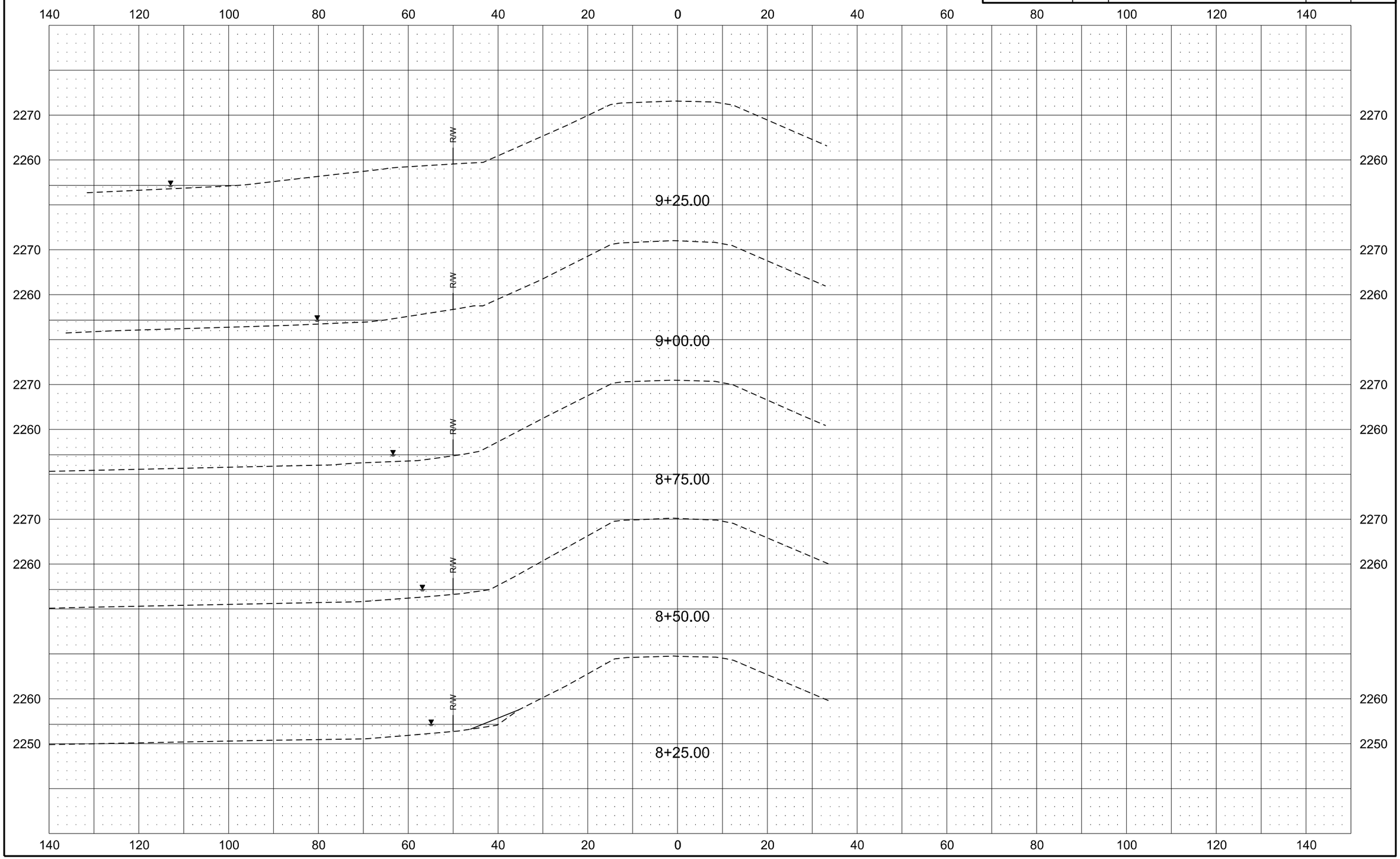
7+57.41

7+50.00

7+25.00

Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	4



Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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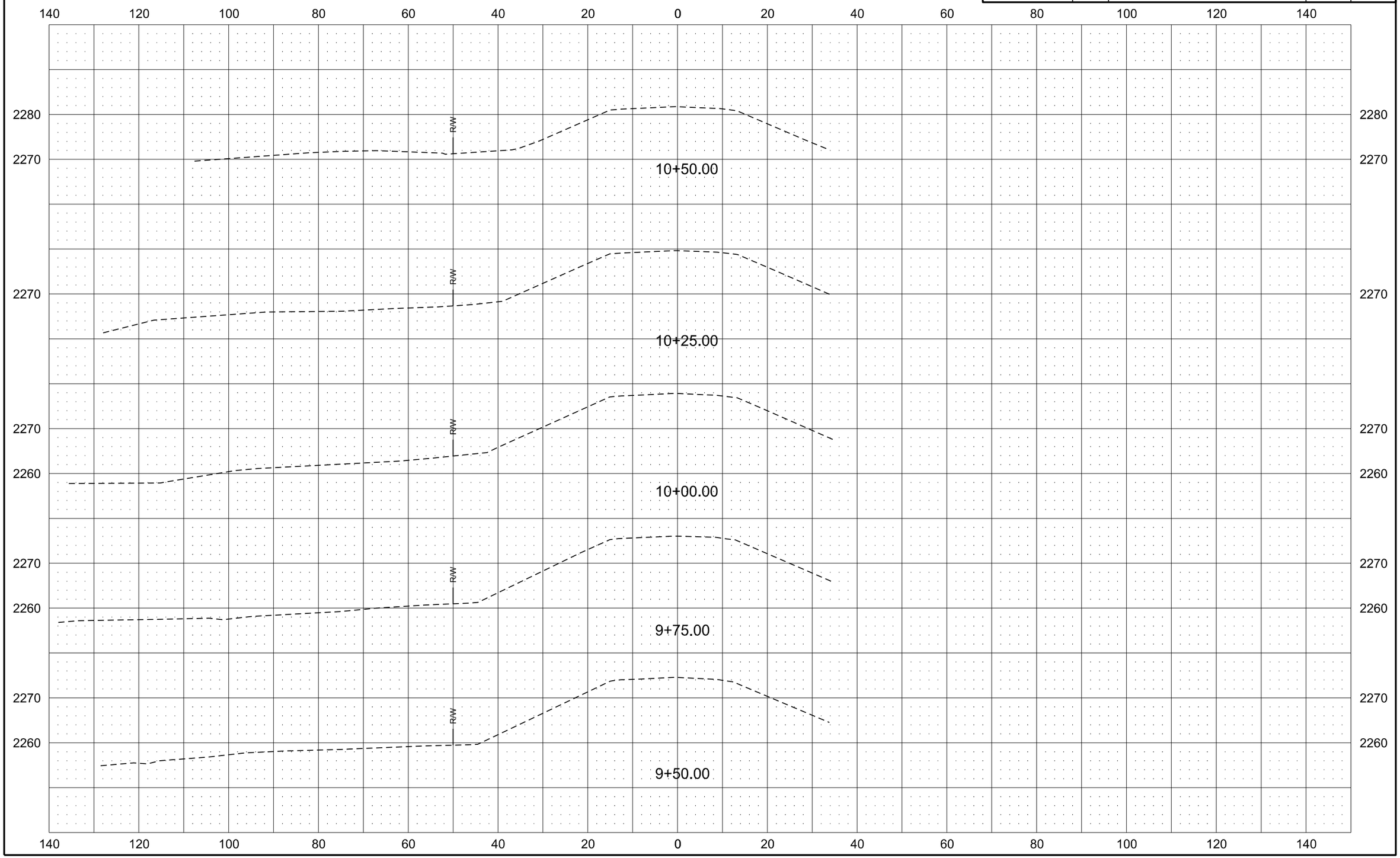

Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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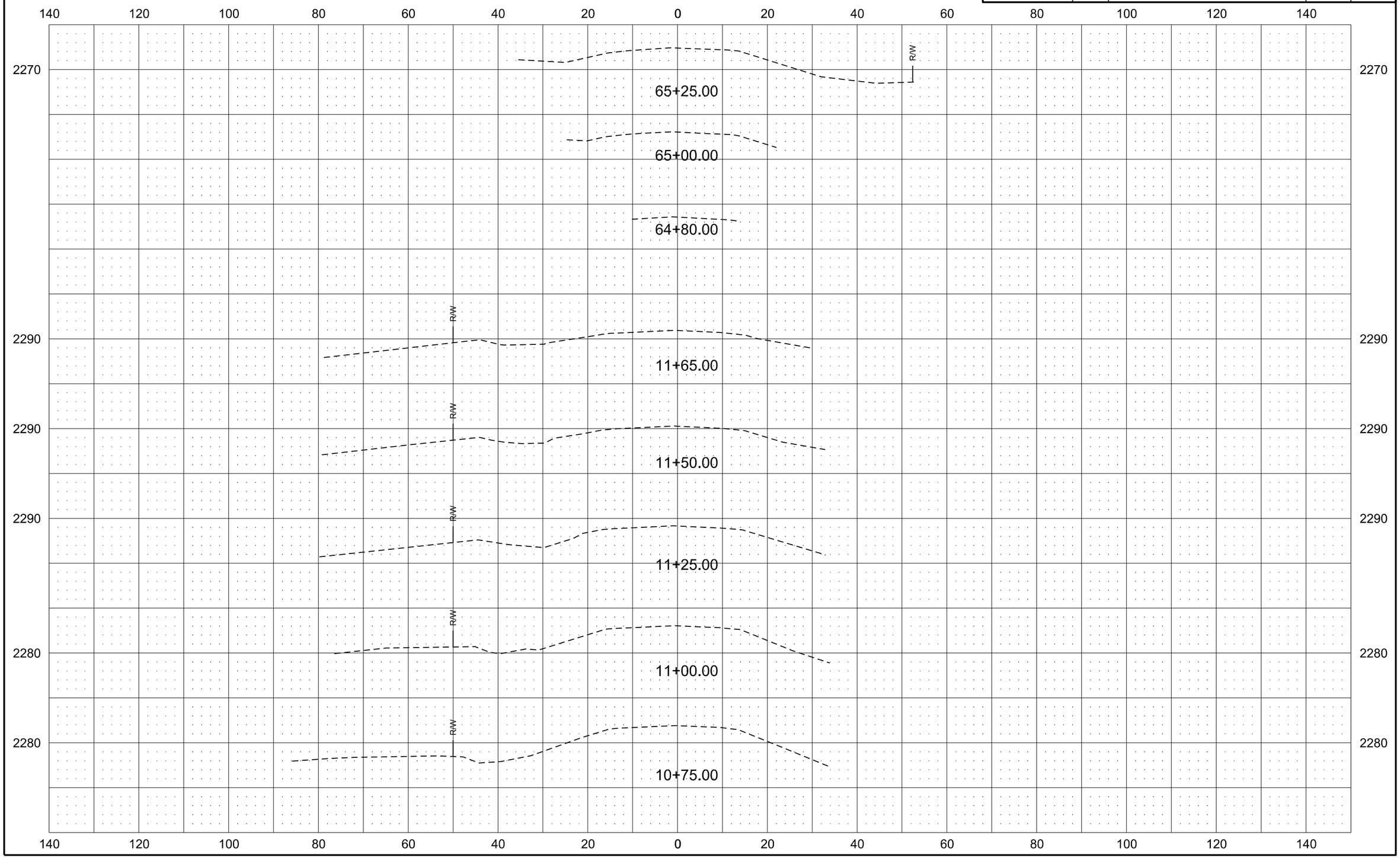

Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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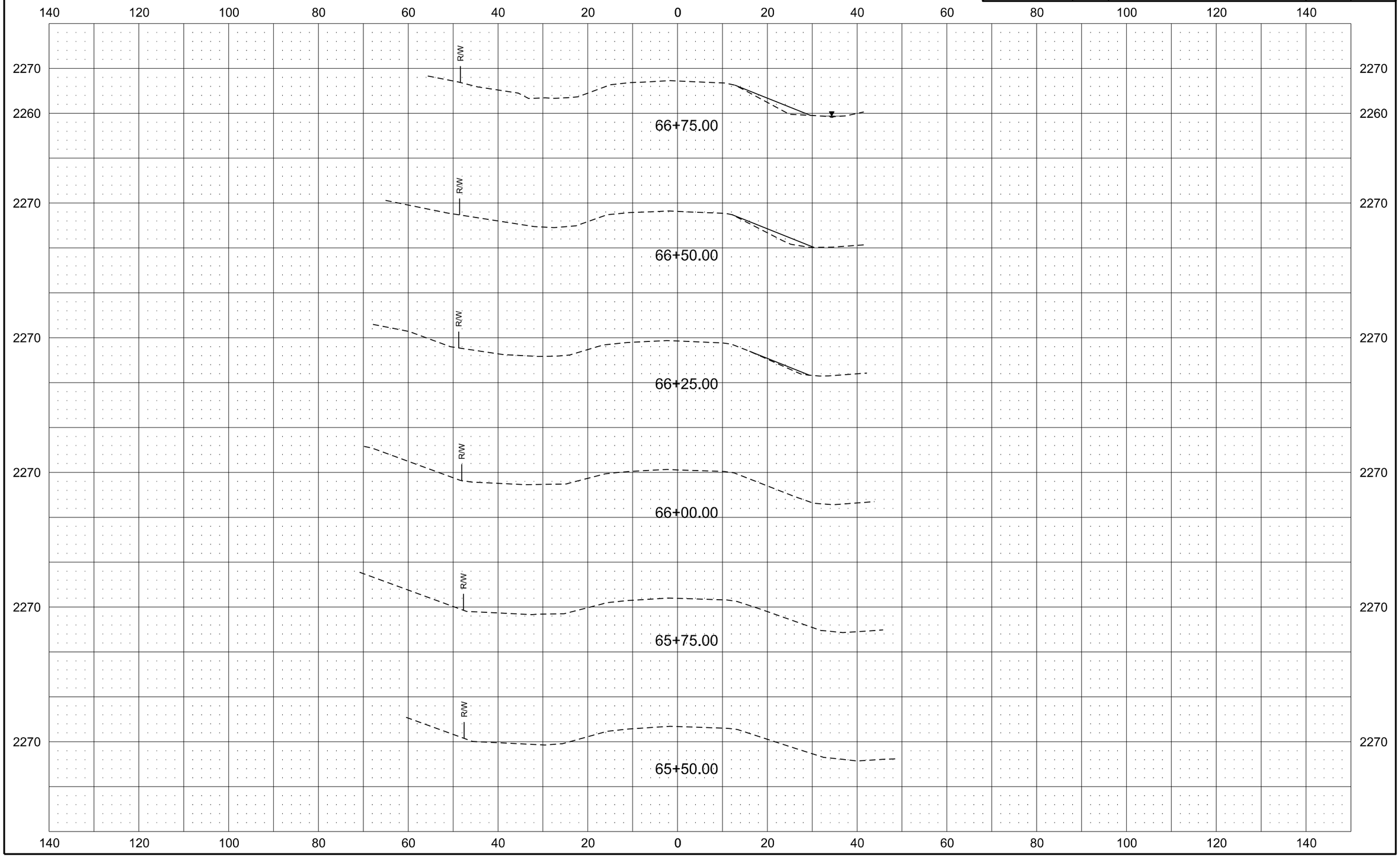

Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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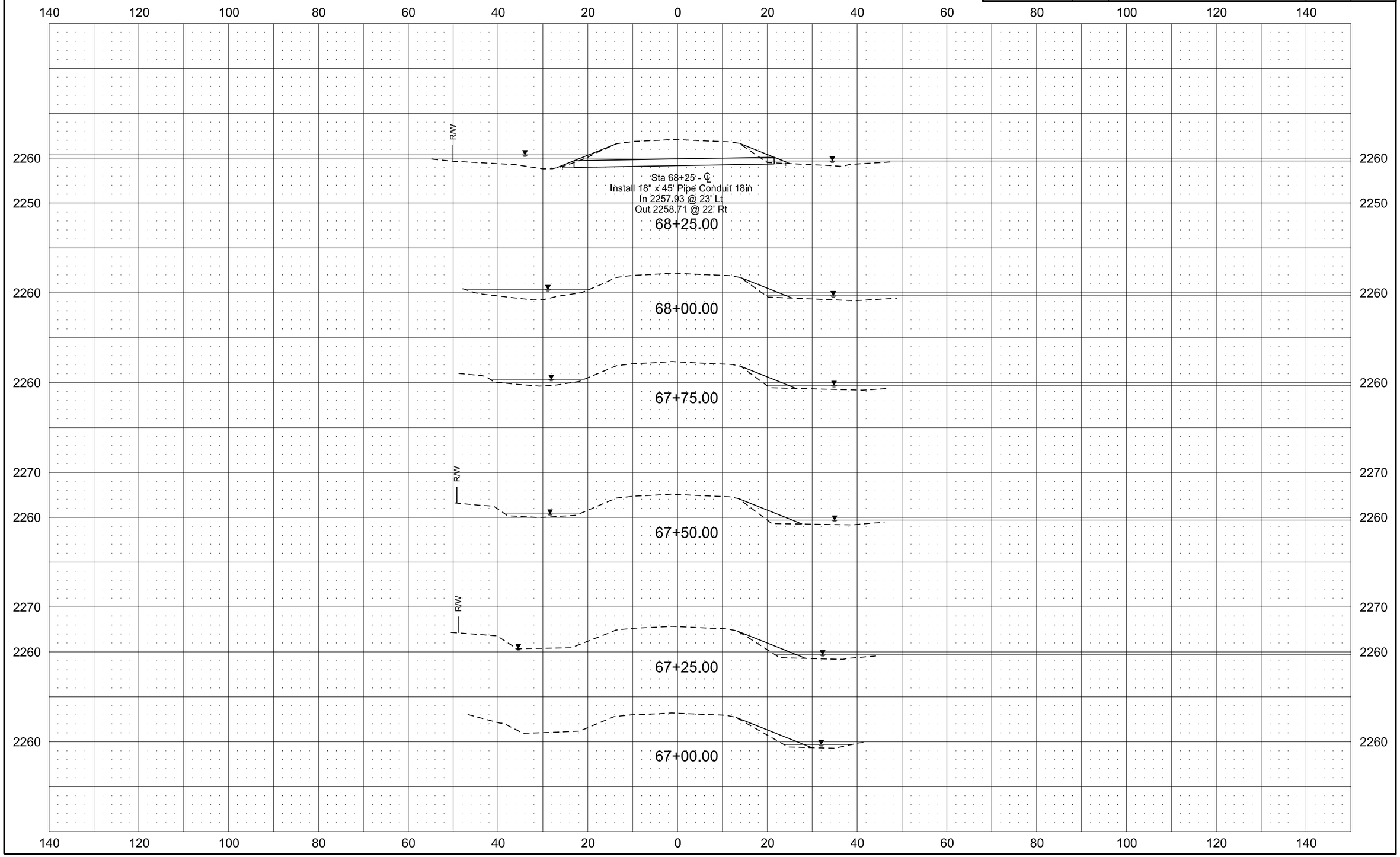


Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	9

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2260

R/W

70+25.00

70+00.00

69+75.00

69+50.00

69+25.00

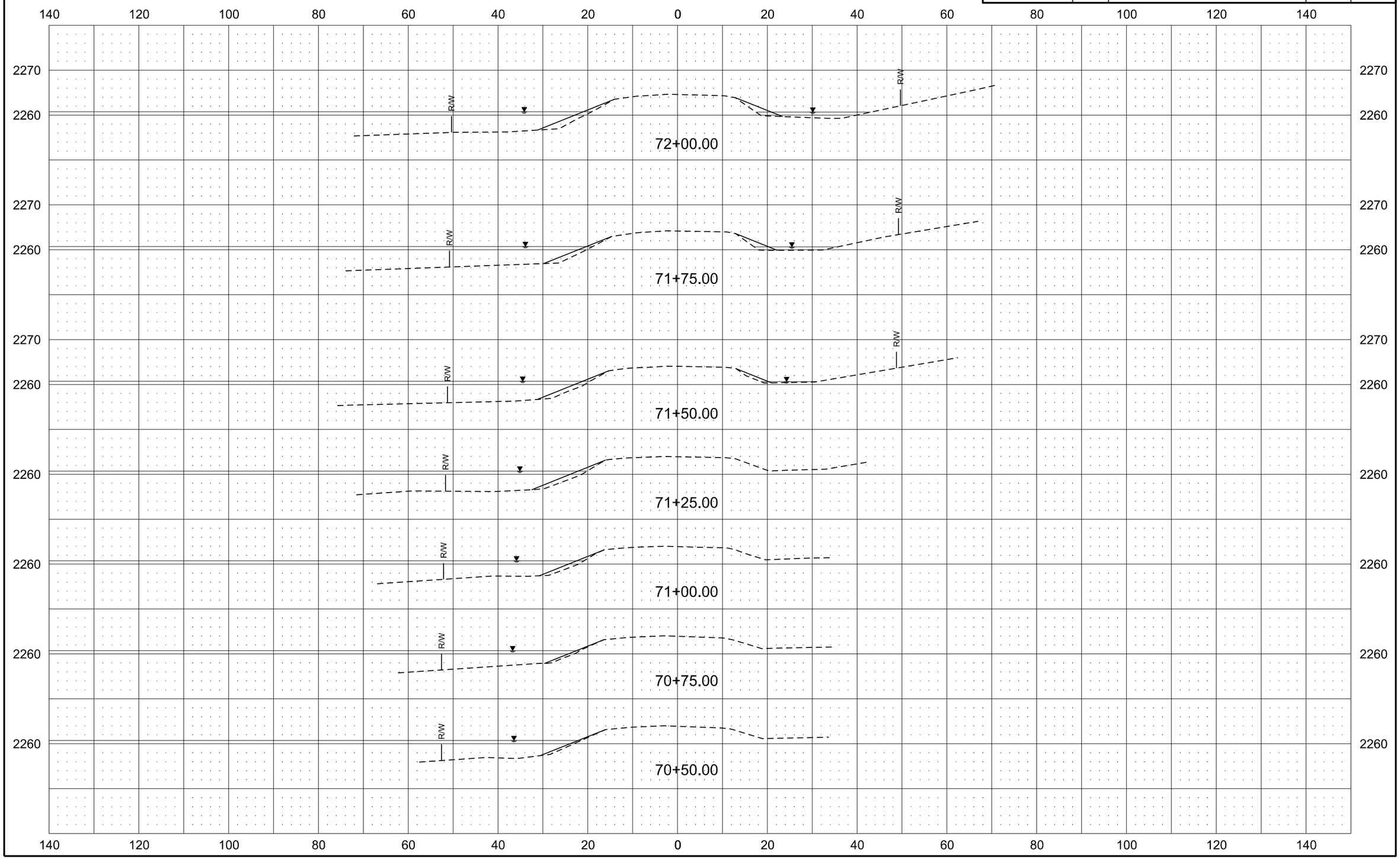
69+00.00

68+75.00

68+50.00

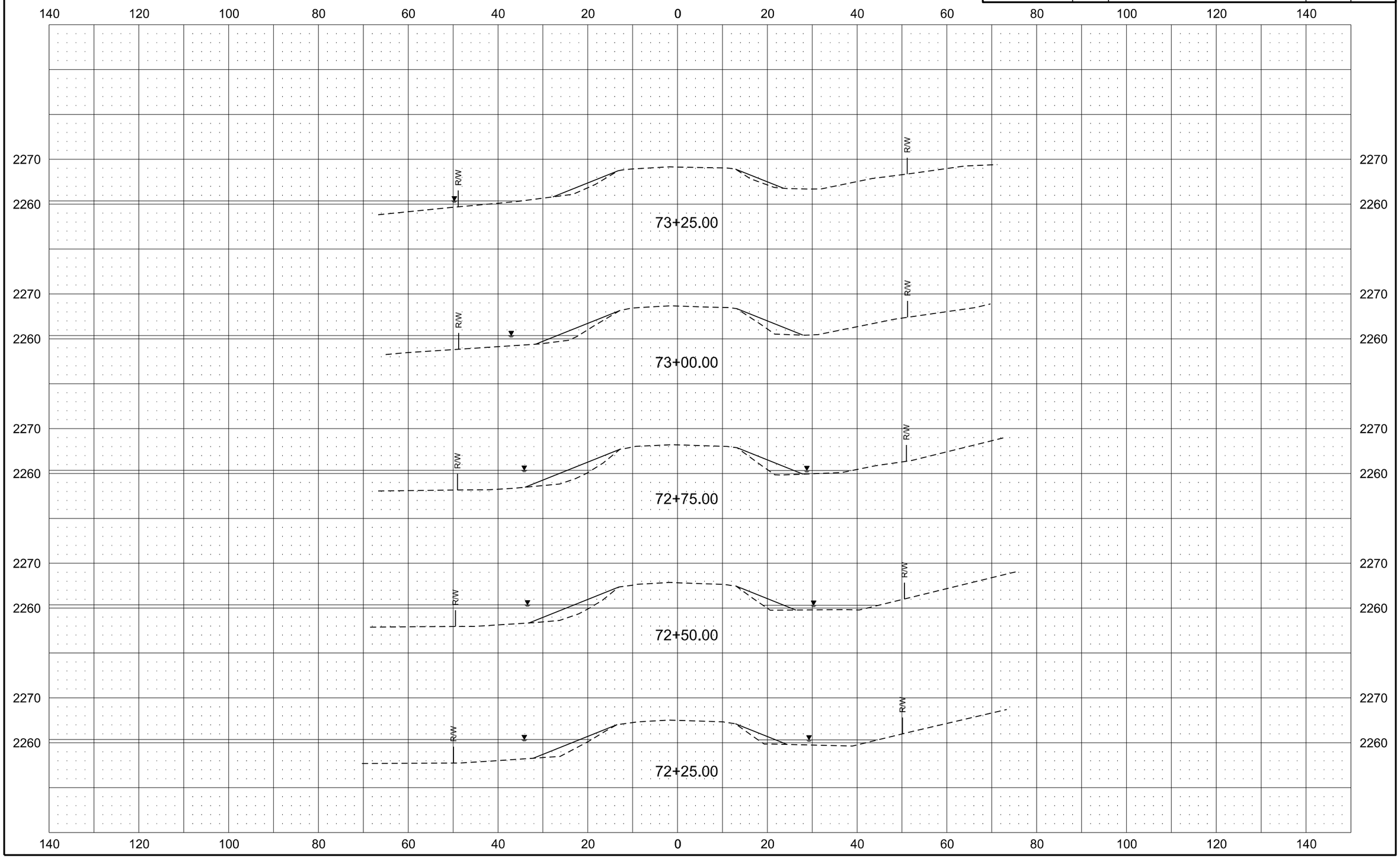
Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	10



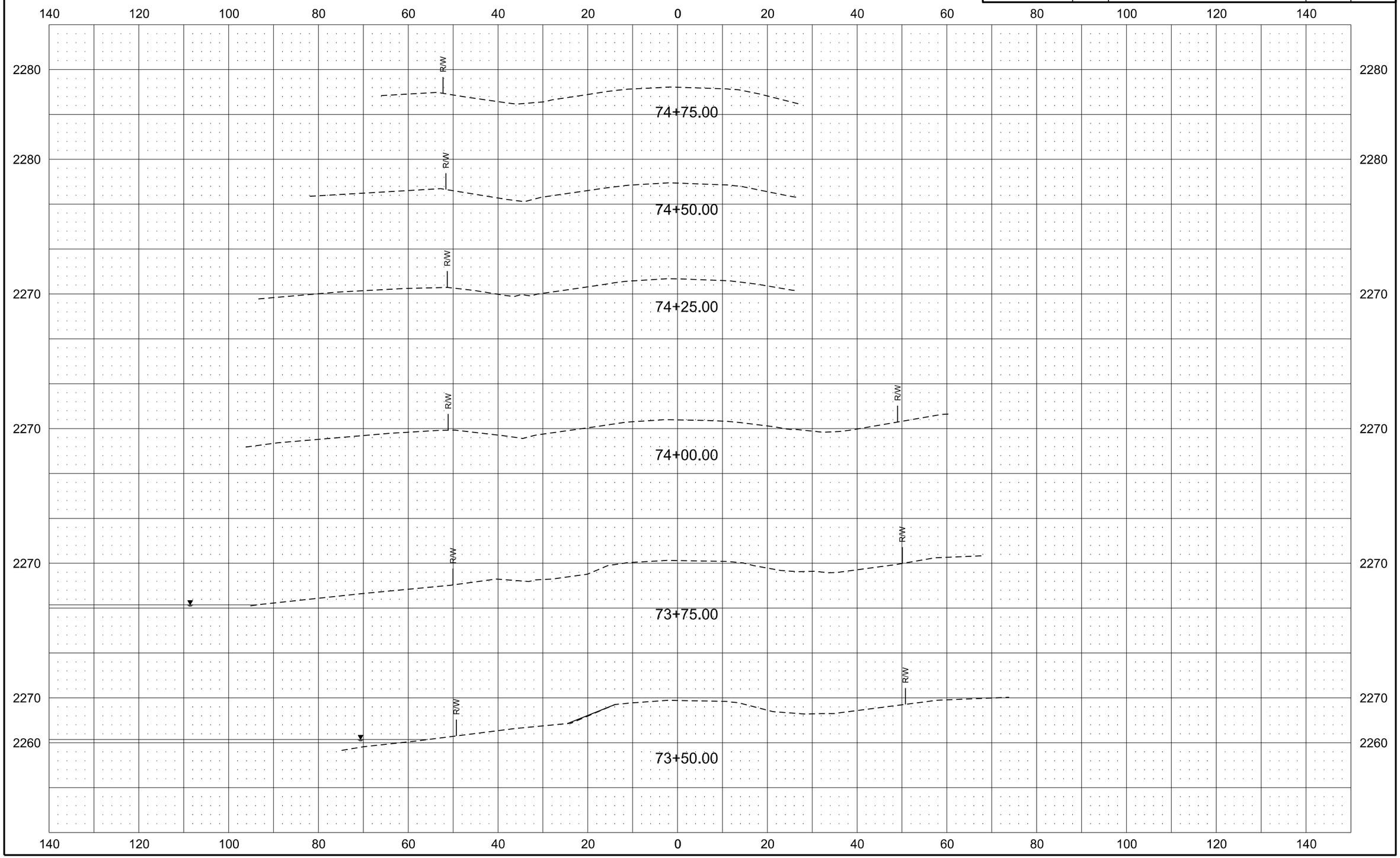
Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	11



Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	12



Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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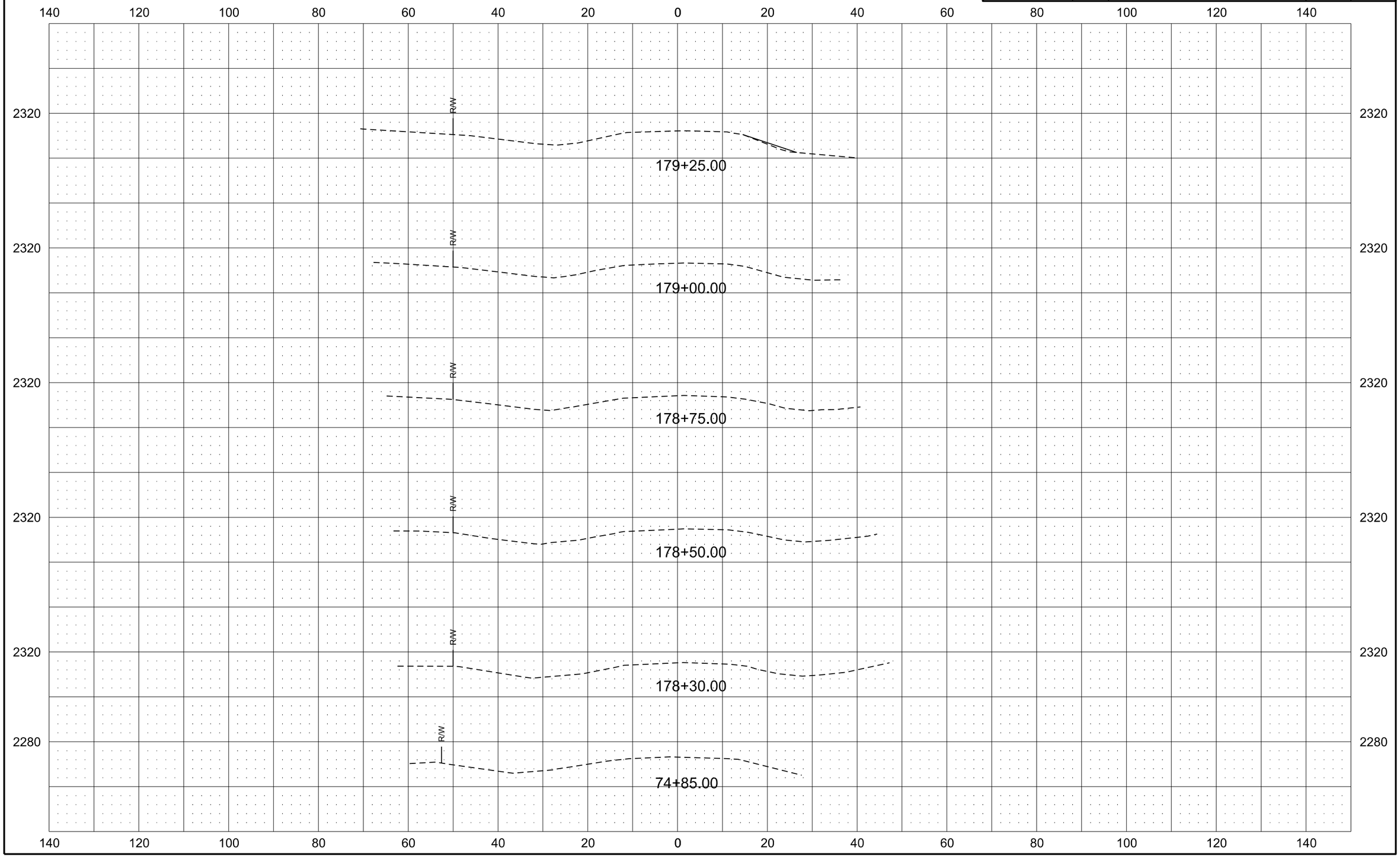
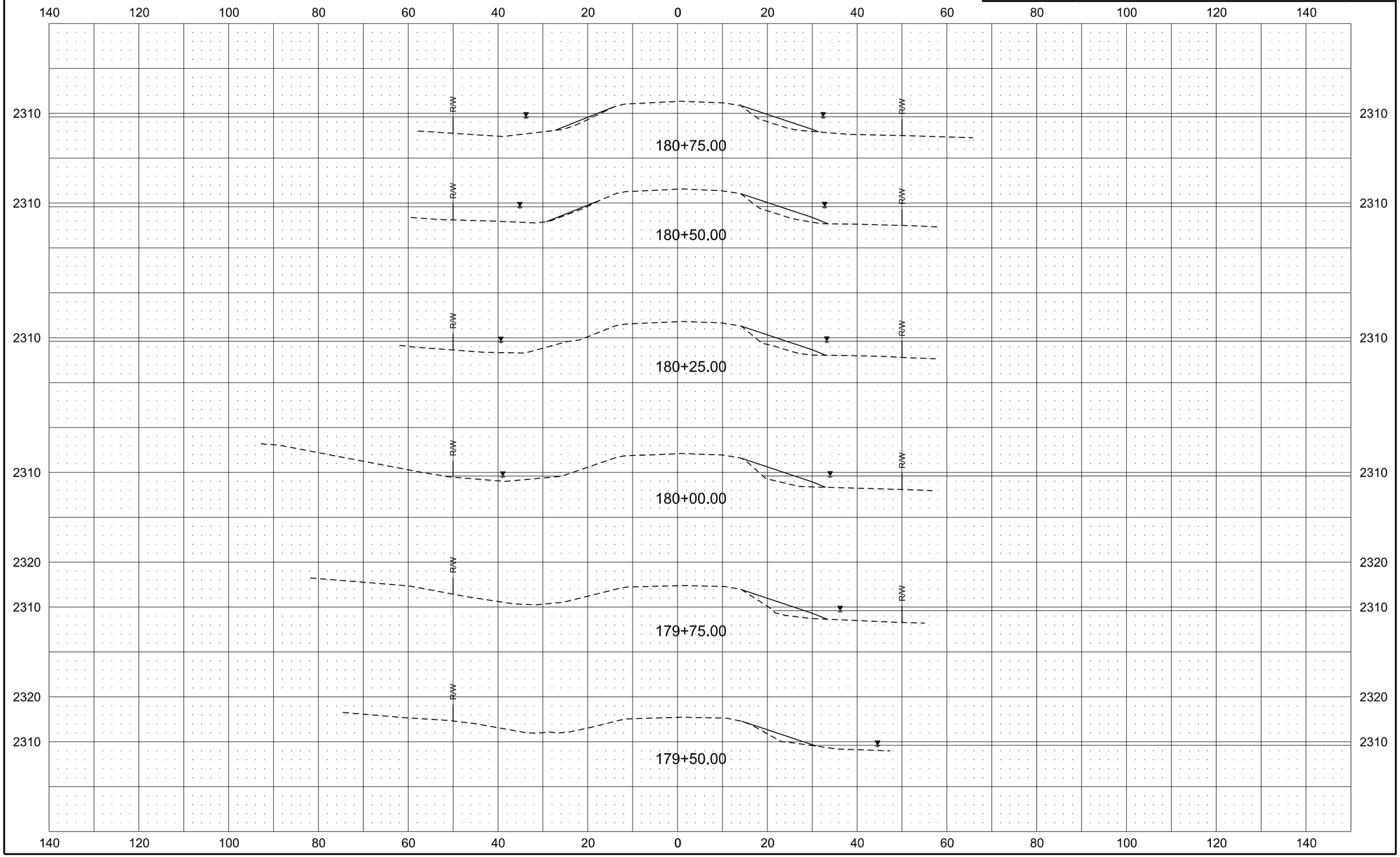


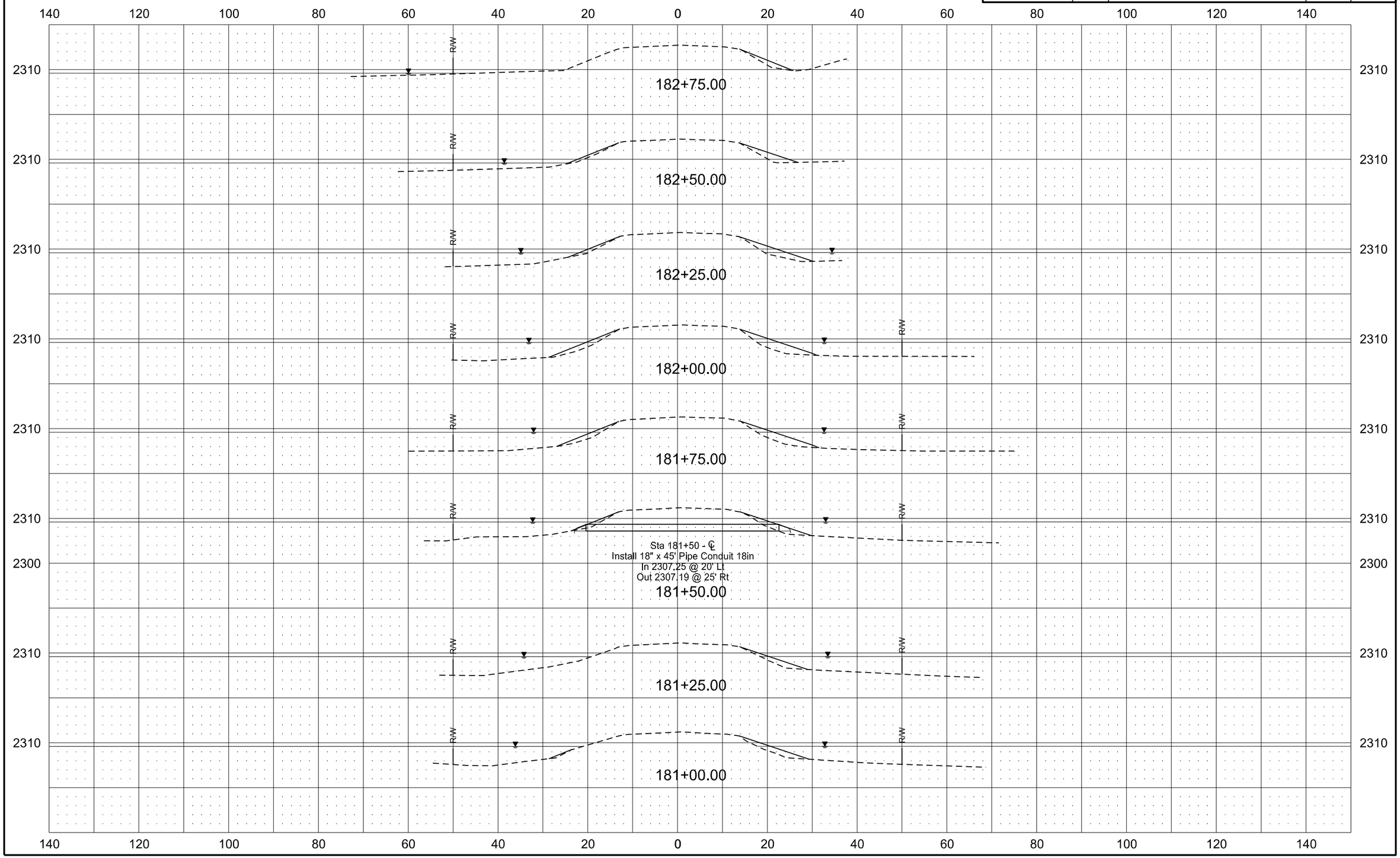
Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	14



Alignment J-10

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	15



Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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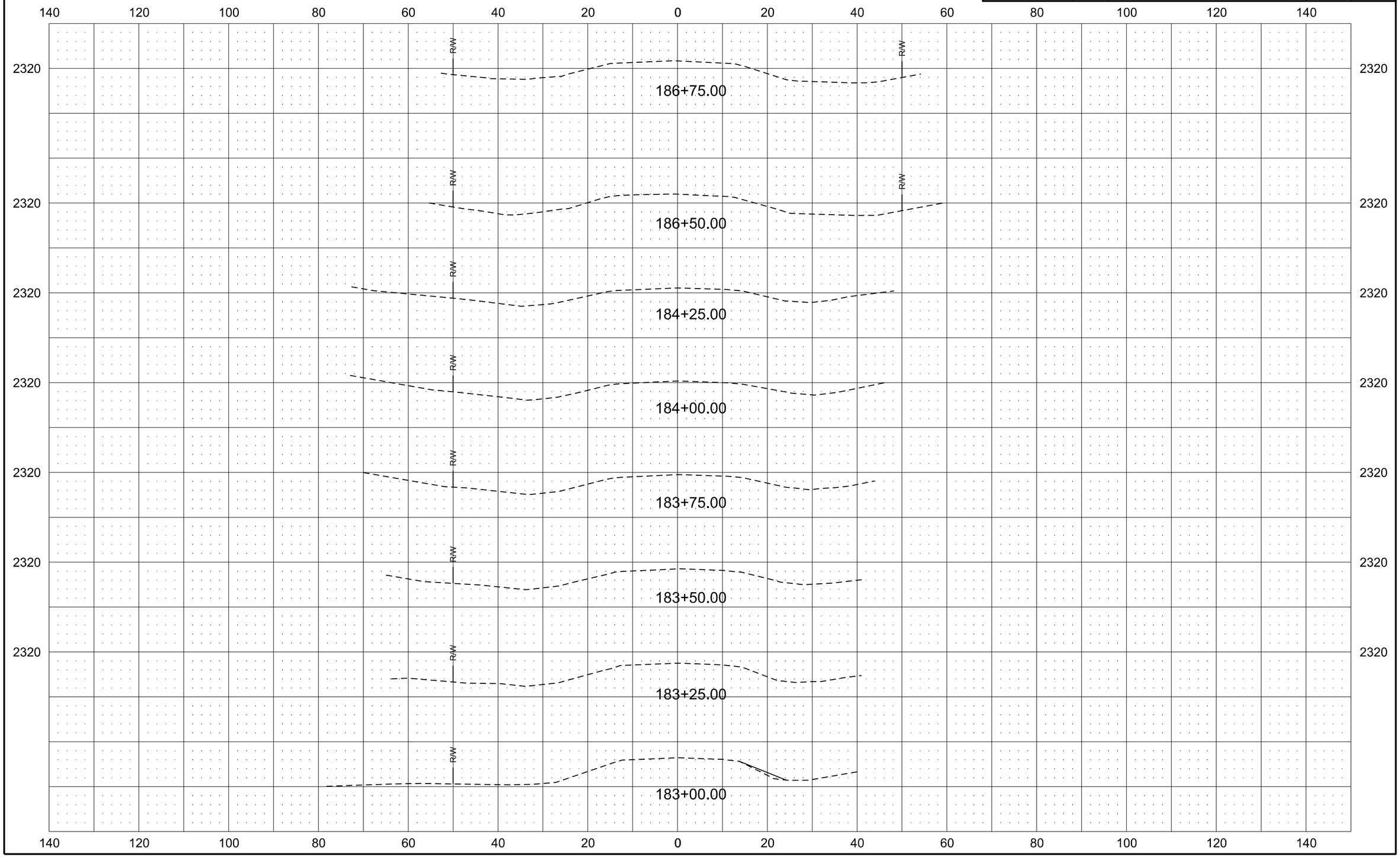
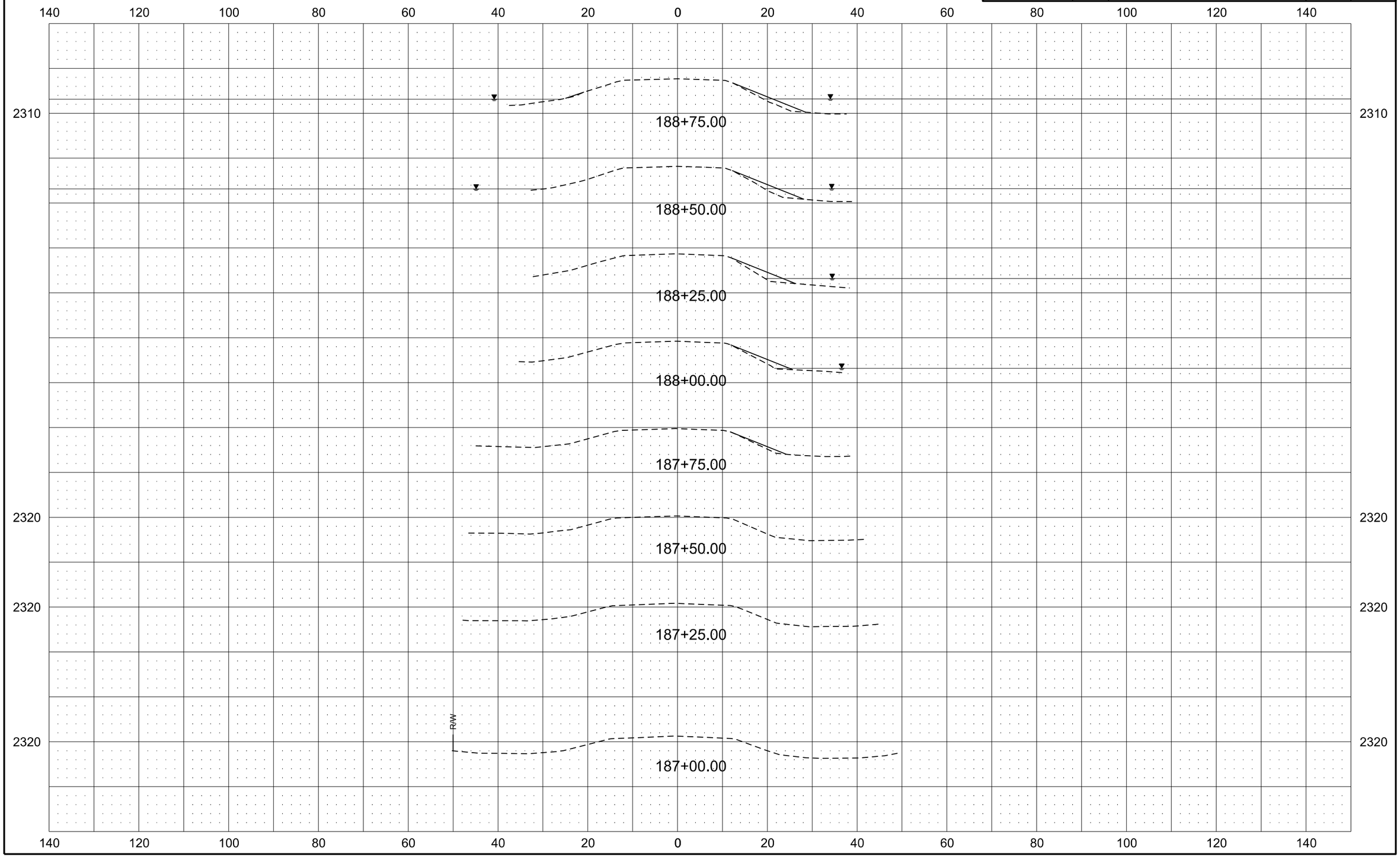


Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	17



Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	18

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2310 2300

R/W

190+25.00

Sta 190+21 - ℄
Remove 24" X 48' CSP
Install 18" x 48' Pipe Conduit 18in
In 2311.77 @ 27' Lt
Out 2311.73 @ 21' Rt

190+21.15

190+00.00

189+75.00

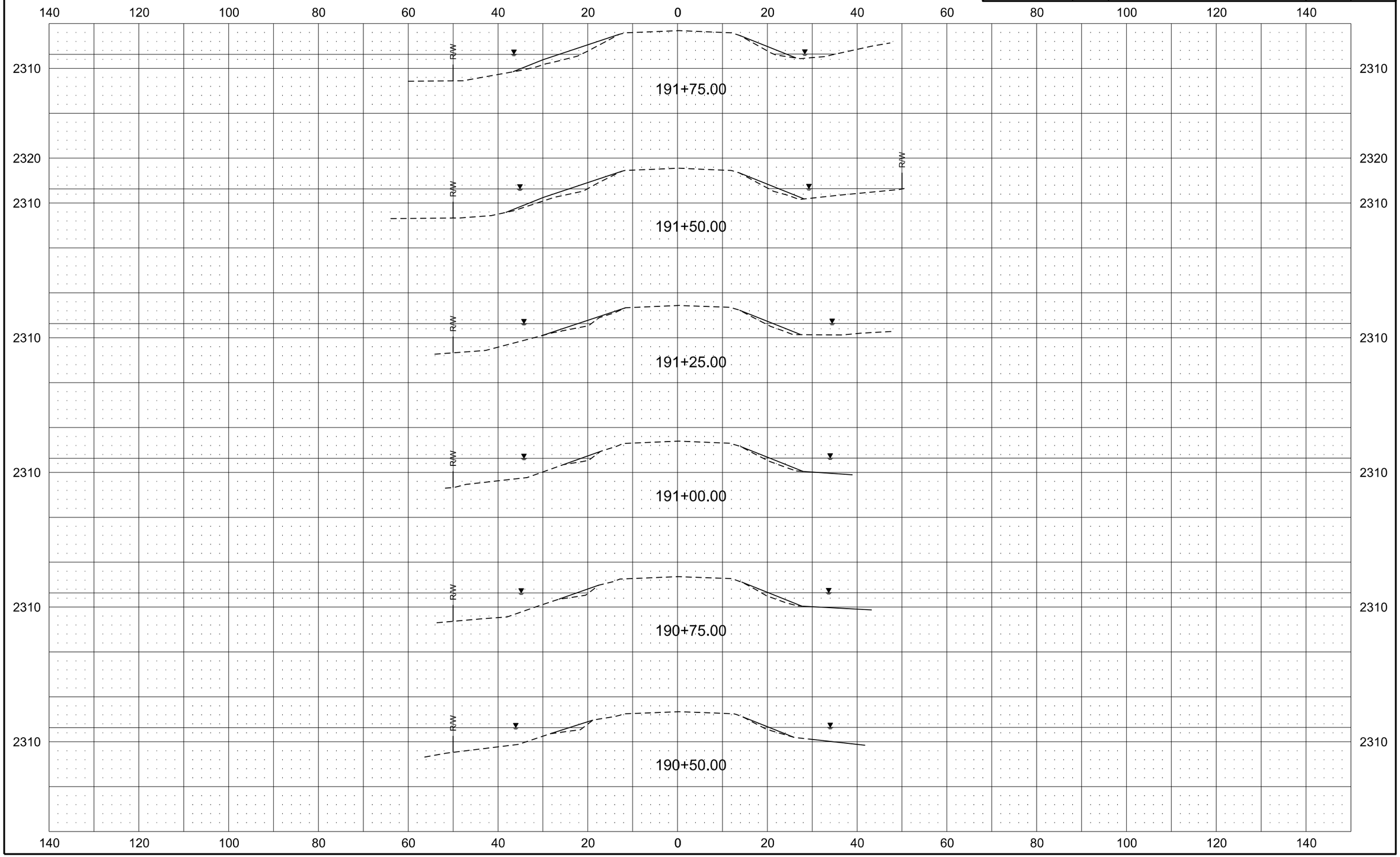
189+50.00

189+25.00

189+00.00

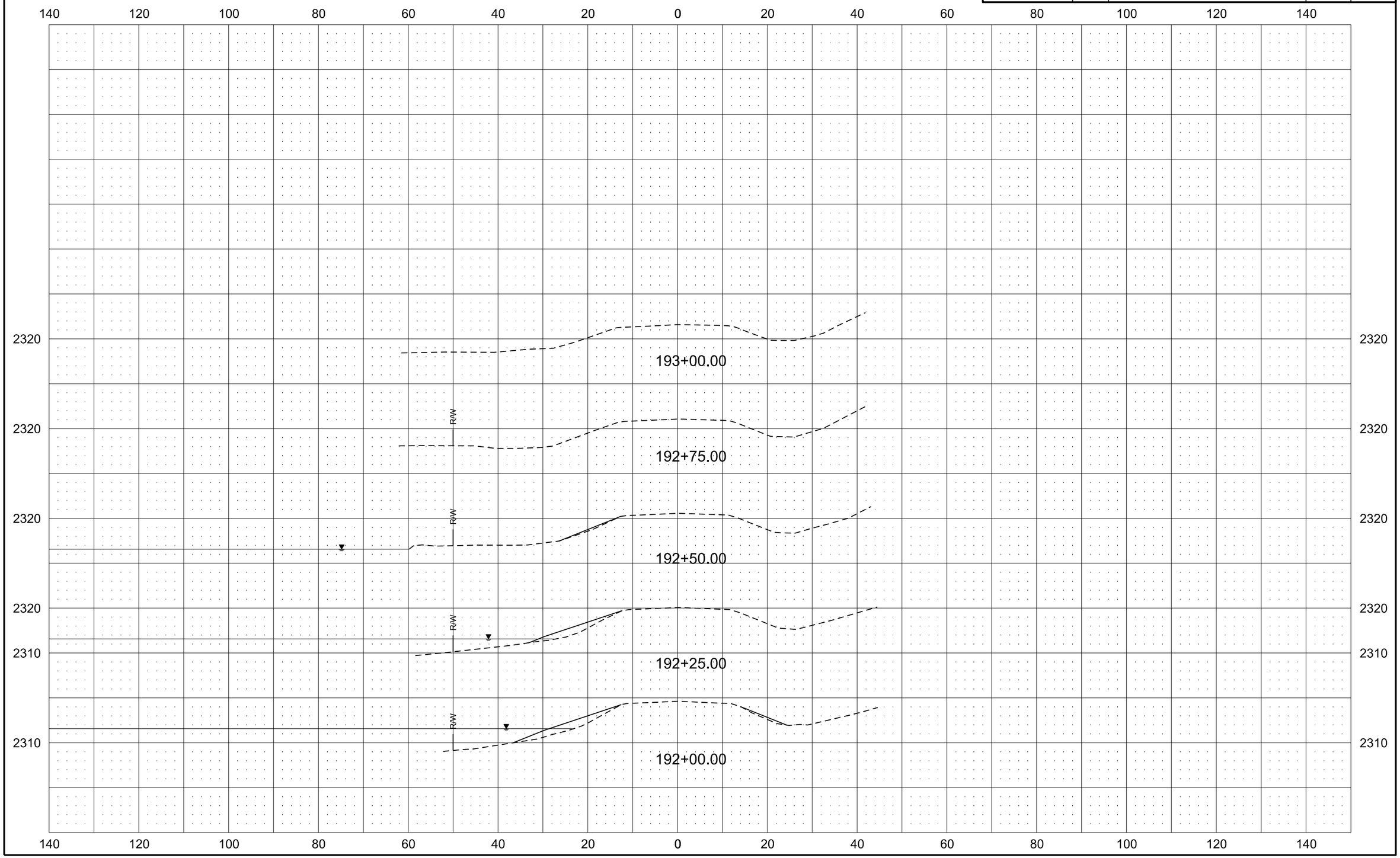
Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	19



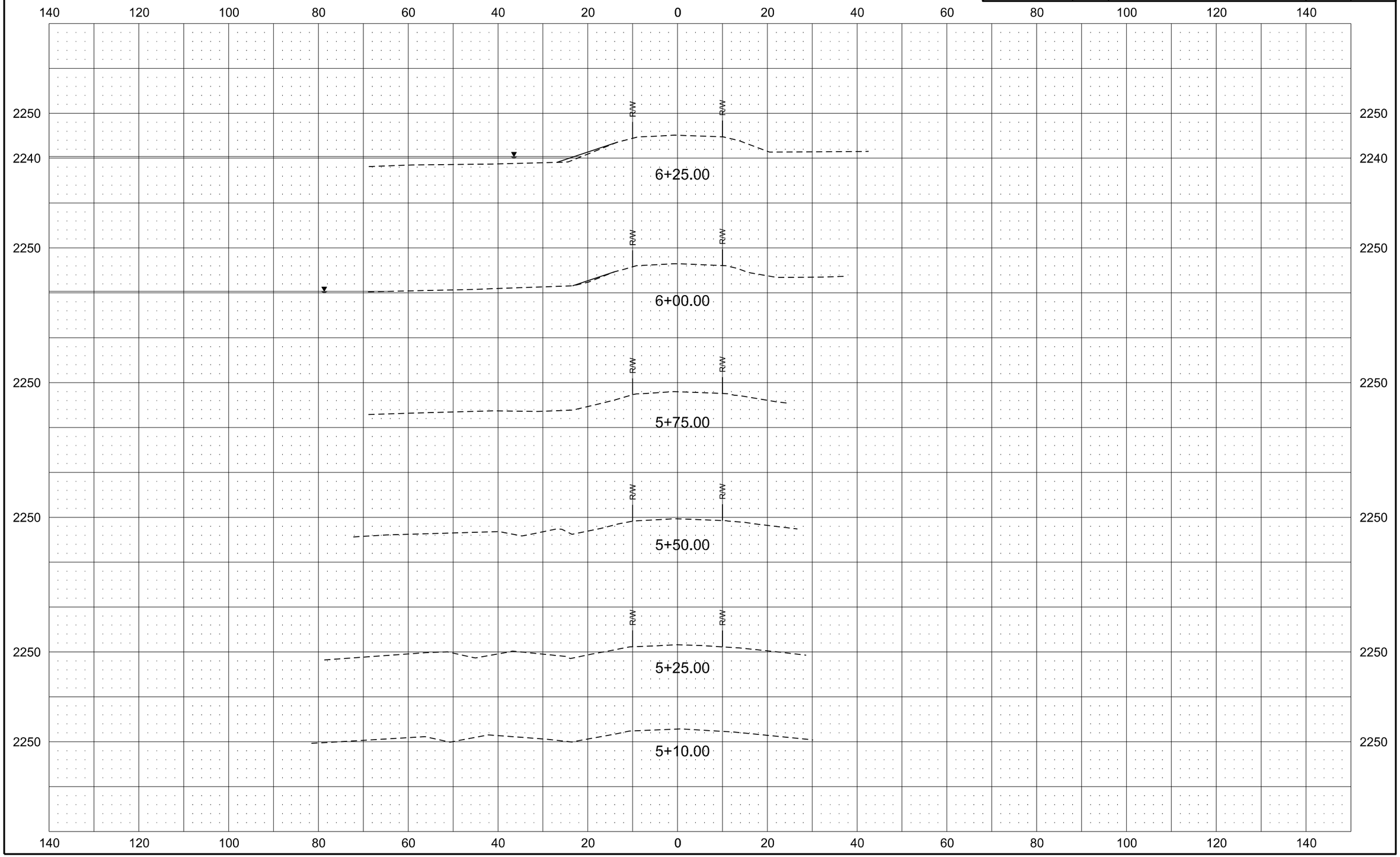
Alignment J-10

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	20



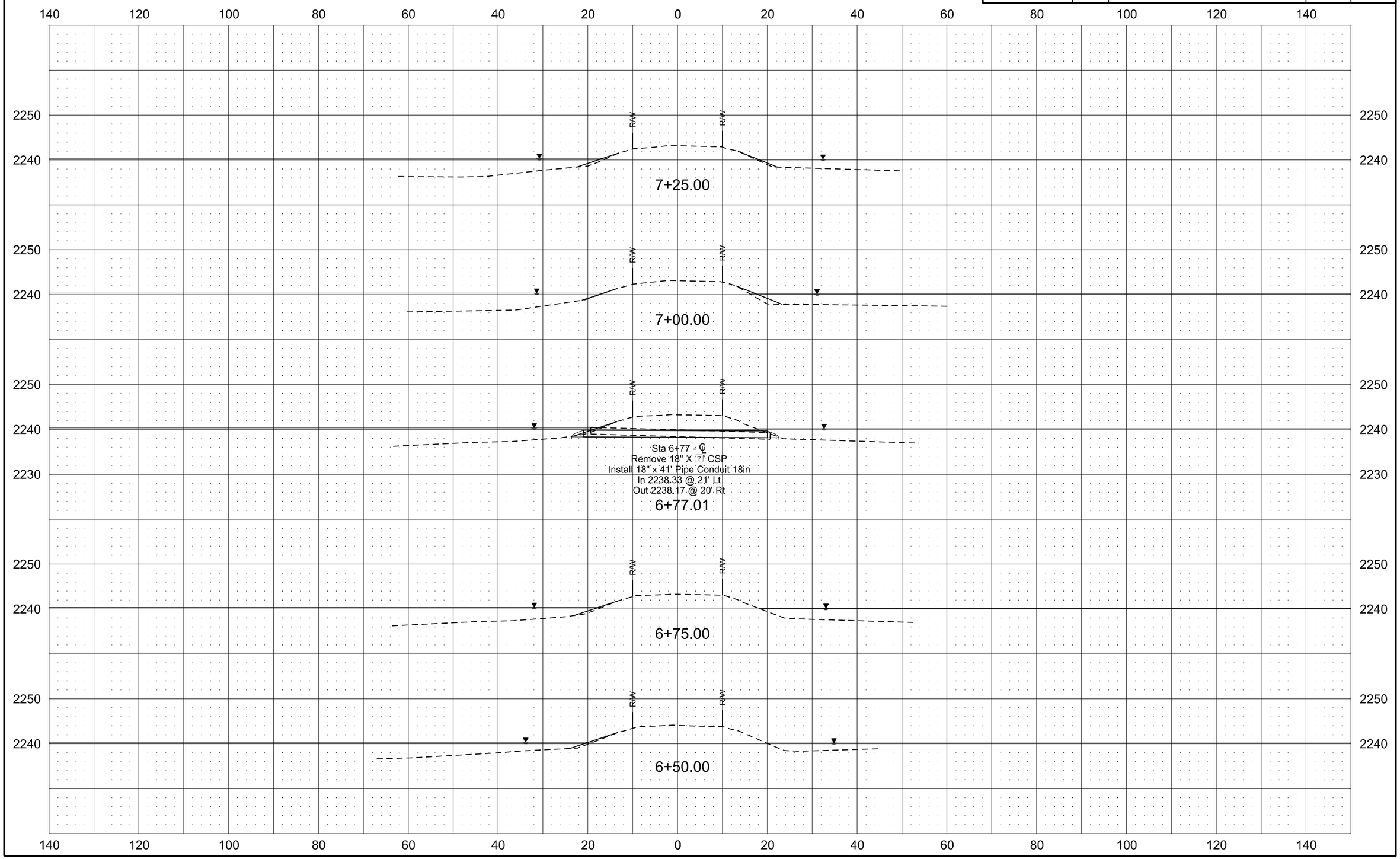
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	21



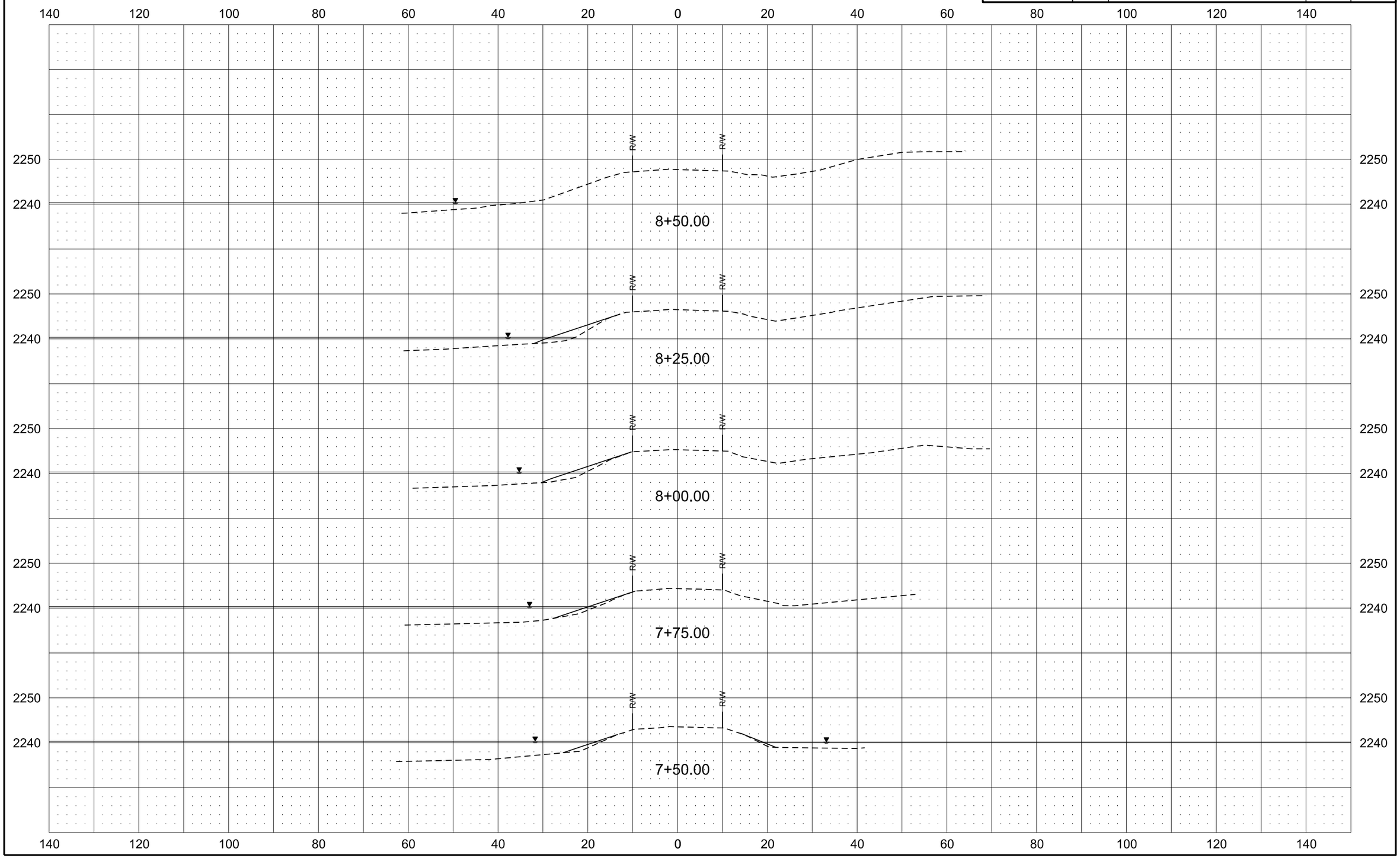
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	22



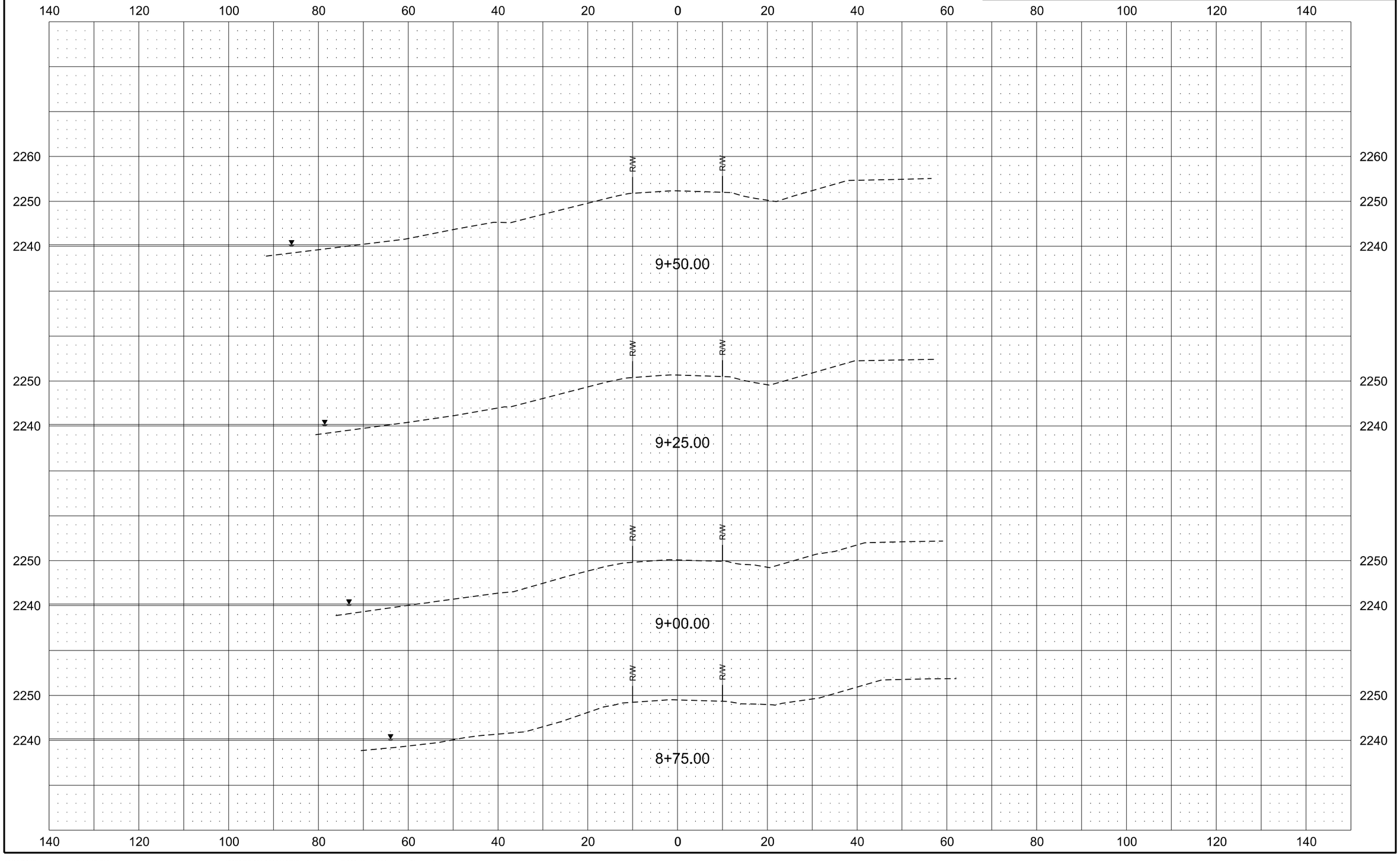
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	23



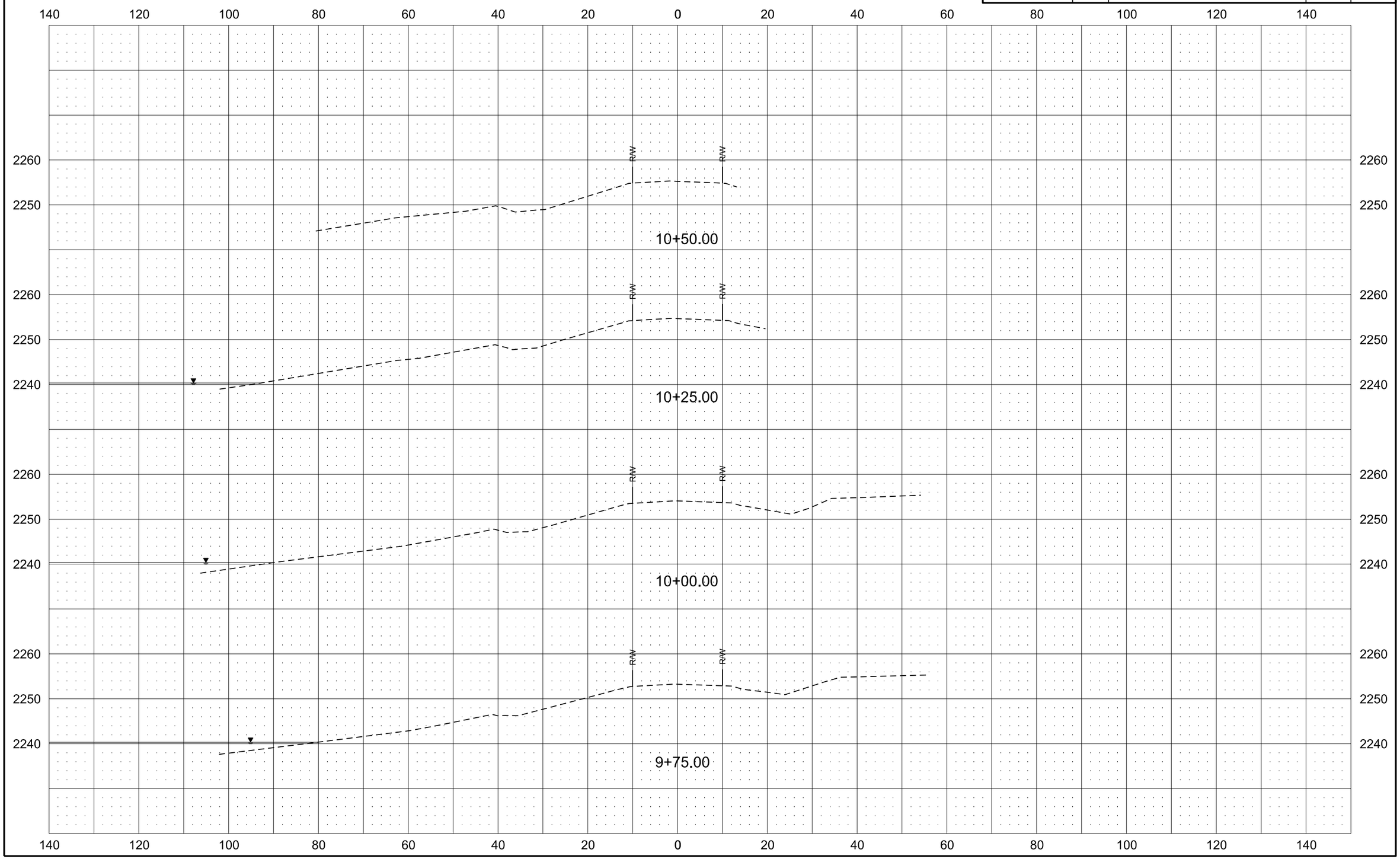
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	24



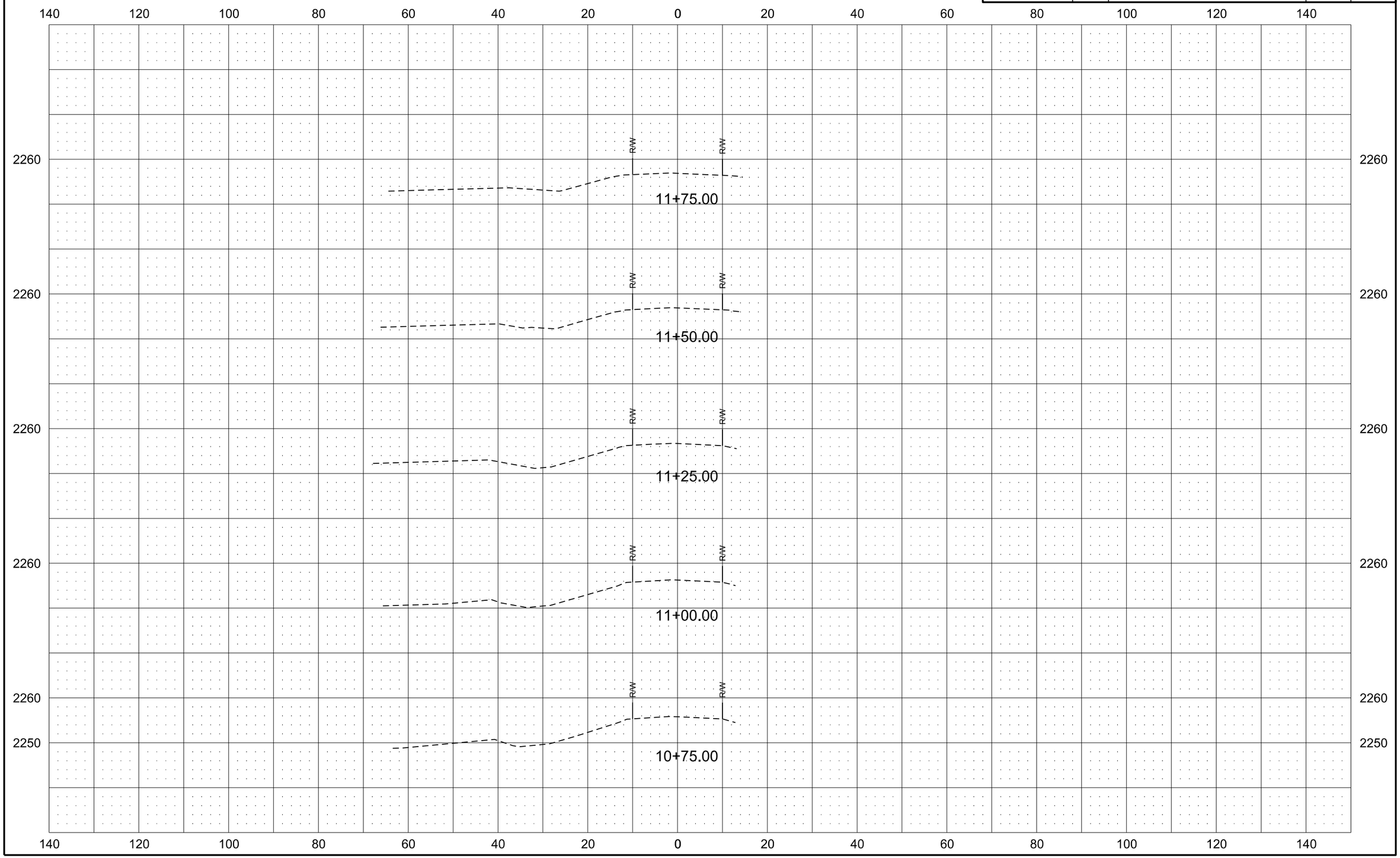
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	25



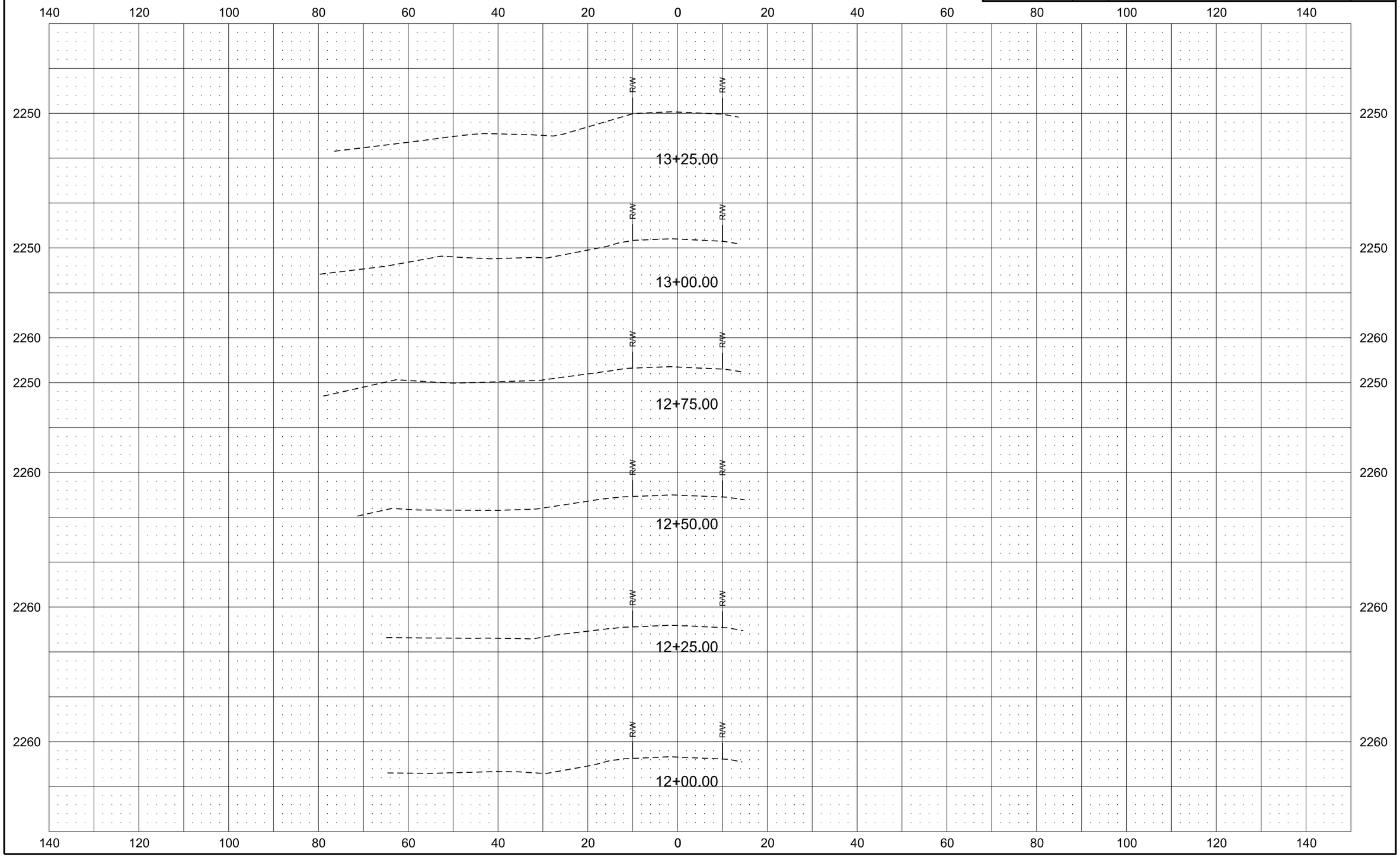
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	26



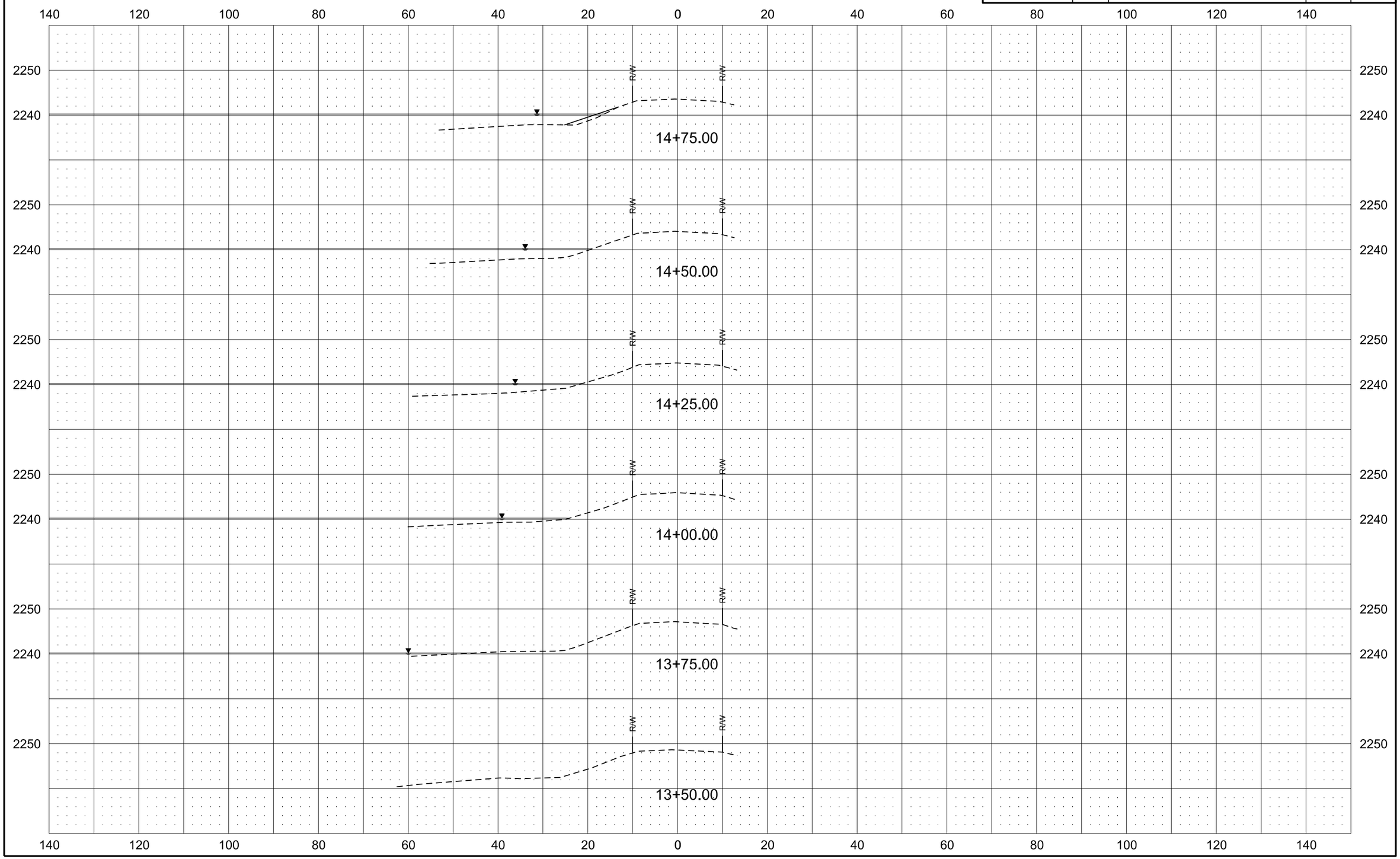
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	27



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	28



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	29

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2250
2240

R/W R/W R/W

16+00.00

15+75.00

15+50.00

15+25.00

15+00.00

Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	30

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2250
2240
2230

R/W

17+25.00

17+00.00

Sta 16+75 - ℄
Remove 18" X 34' CSP
Install 18" x 37' Pipe Conduit 18in
In 2239.05 @ 15' Rt
Out 2238.23 @ 22' Lt

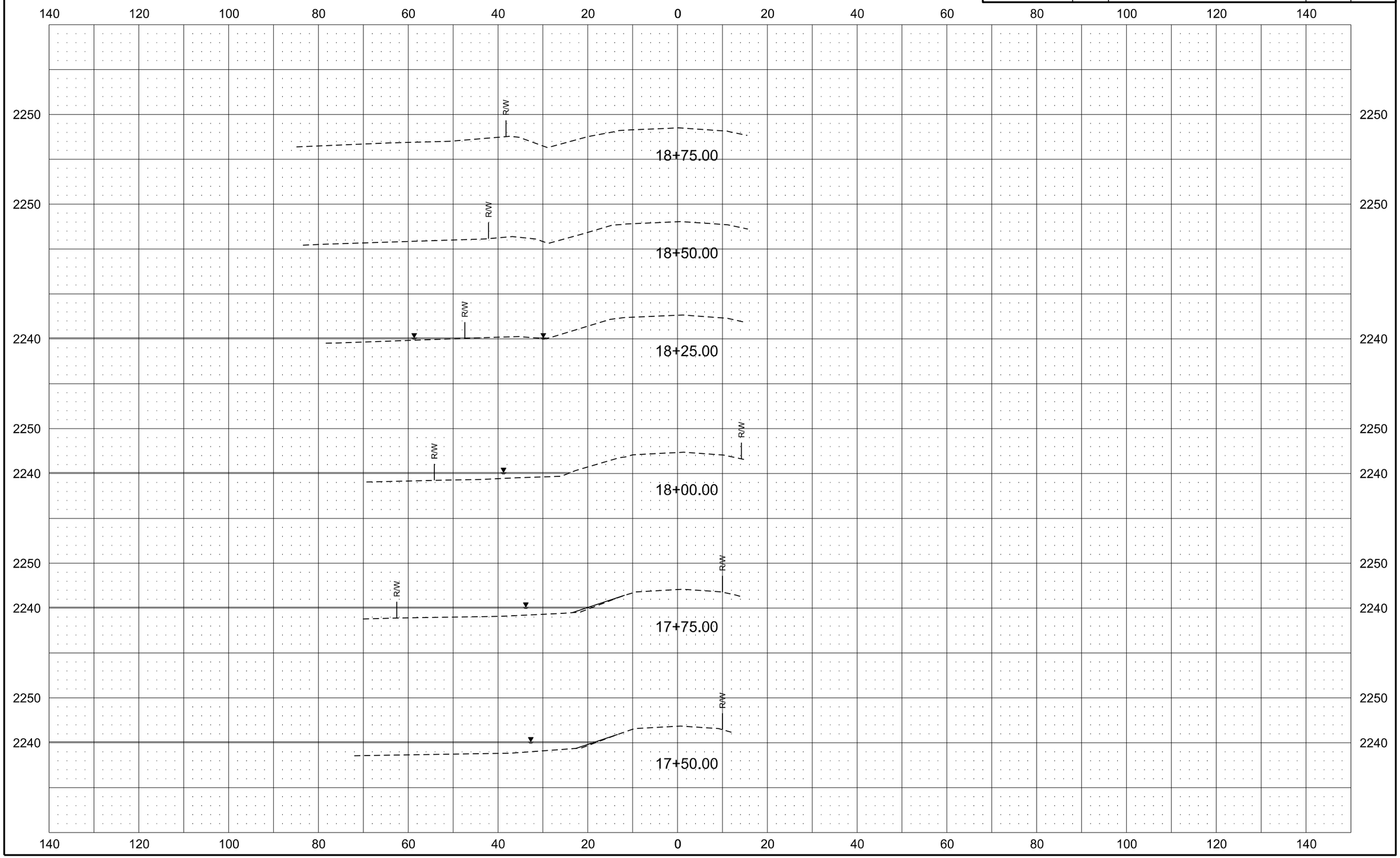
16+75.00

16+50.00

16+25.00

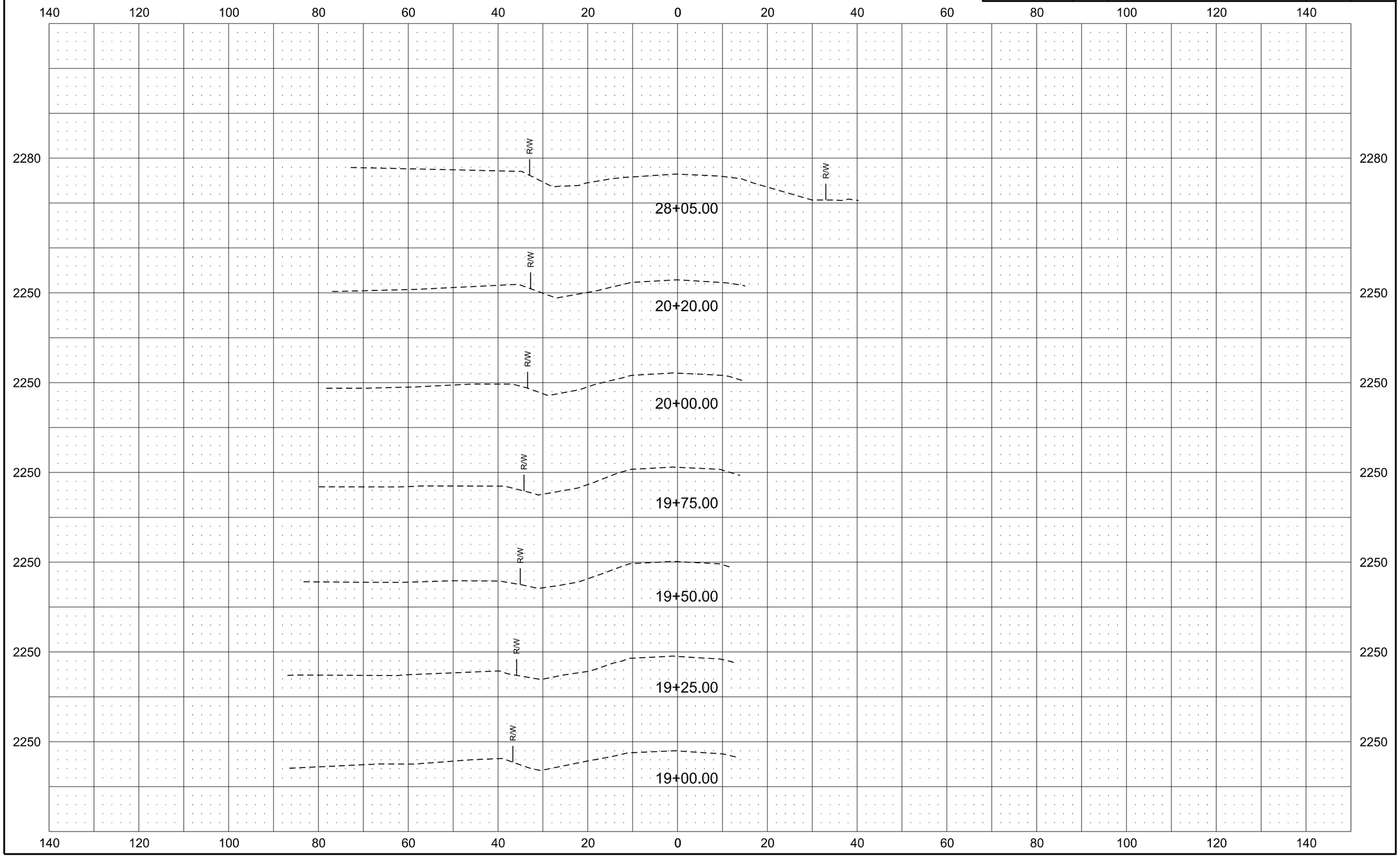
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	31



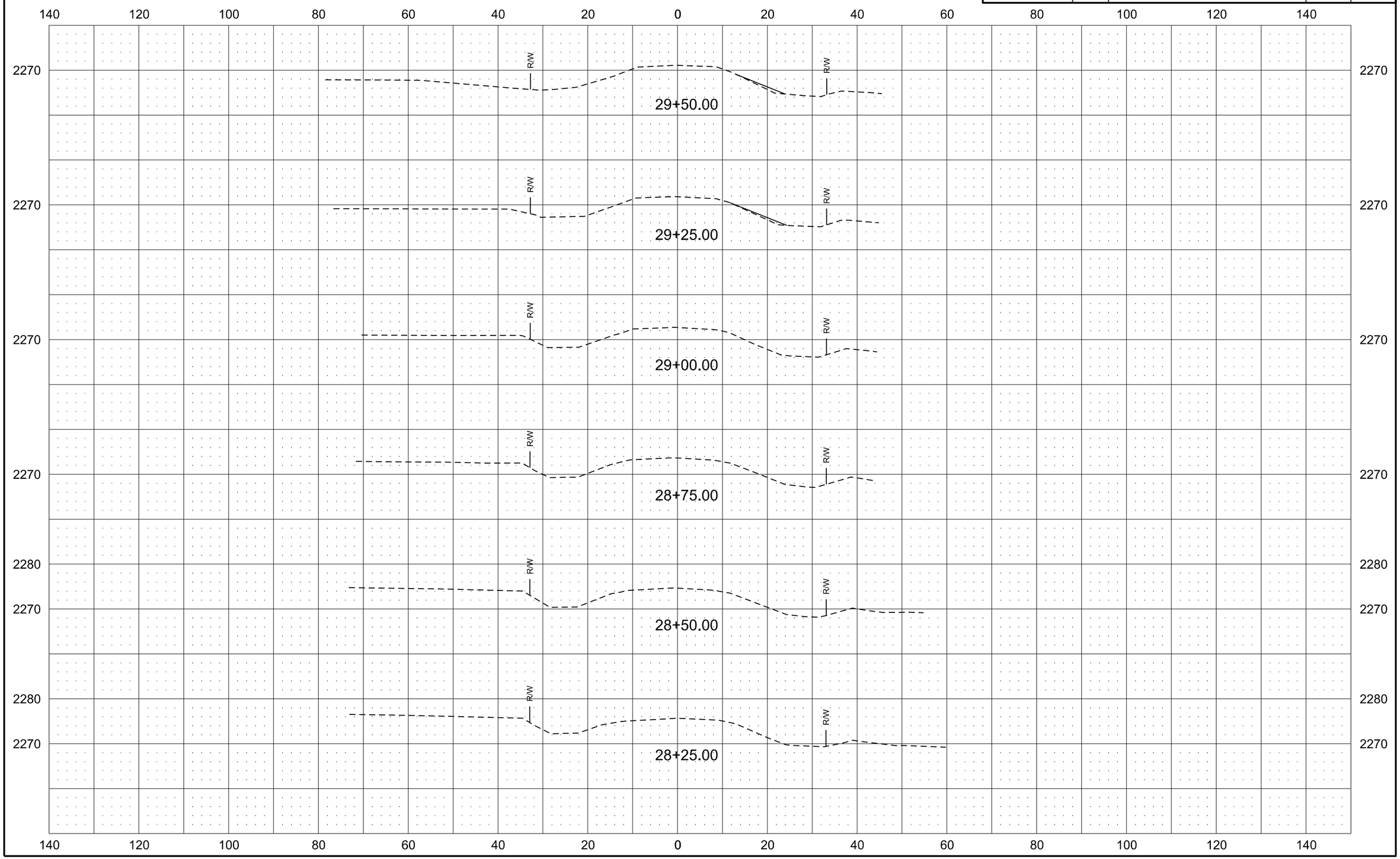
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	32



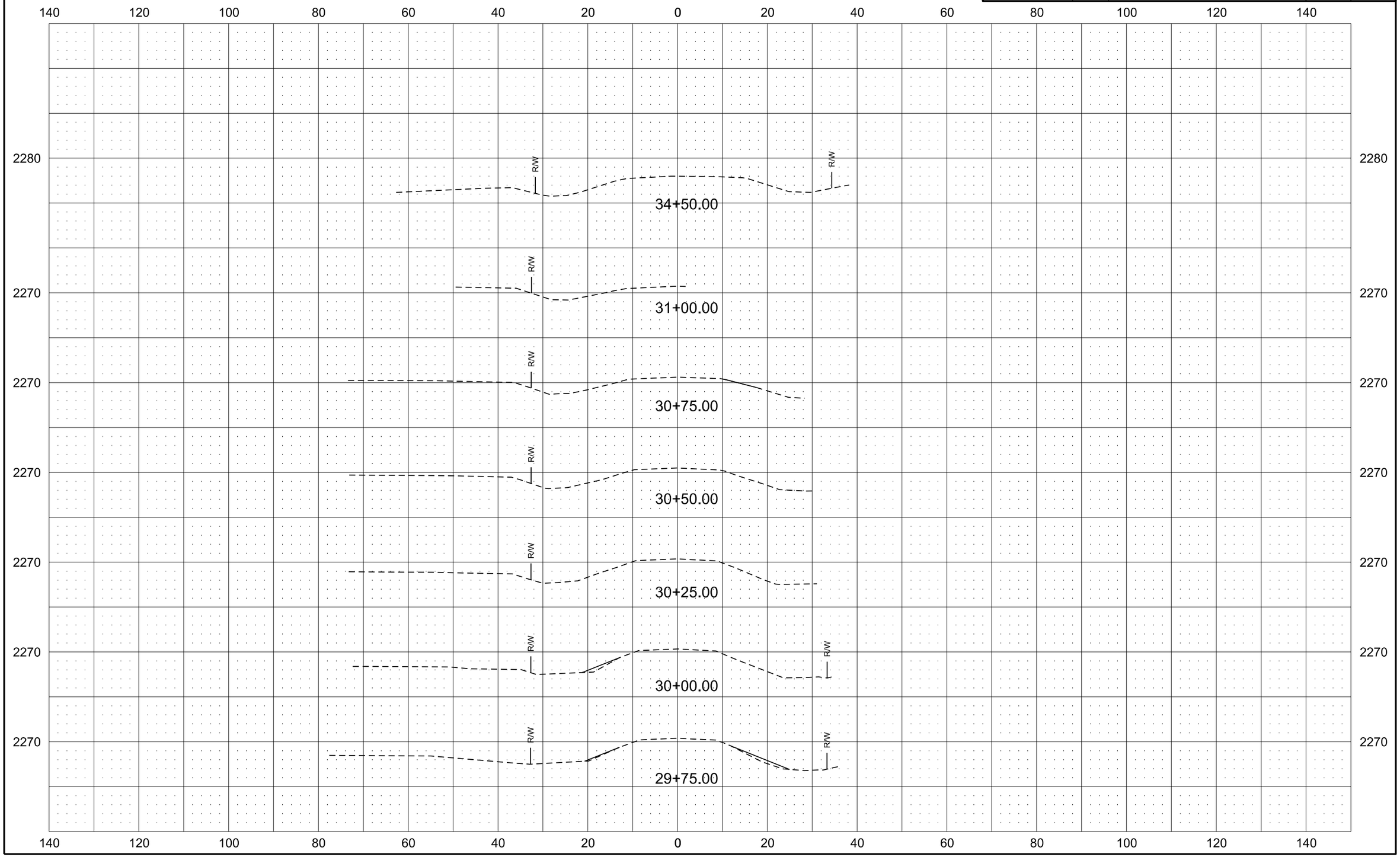
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	33



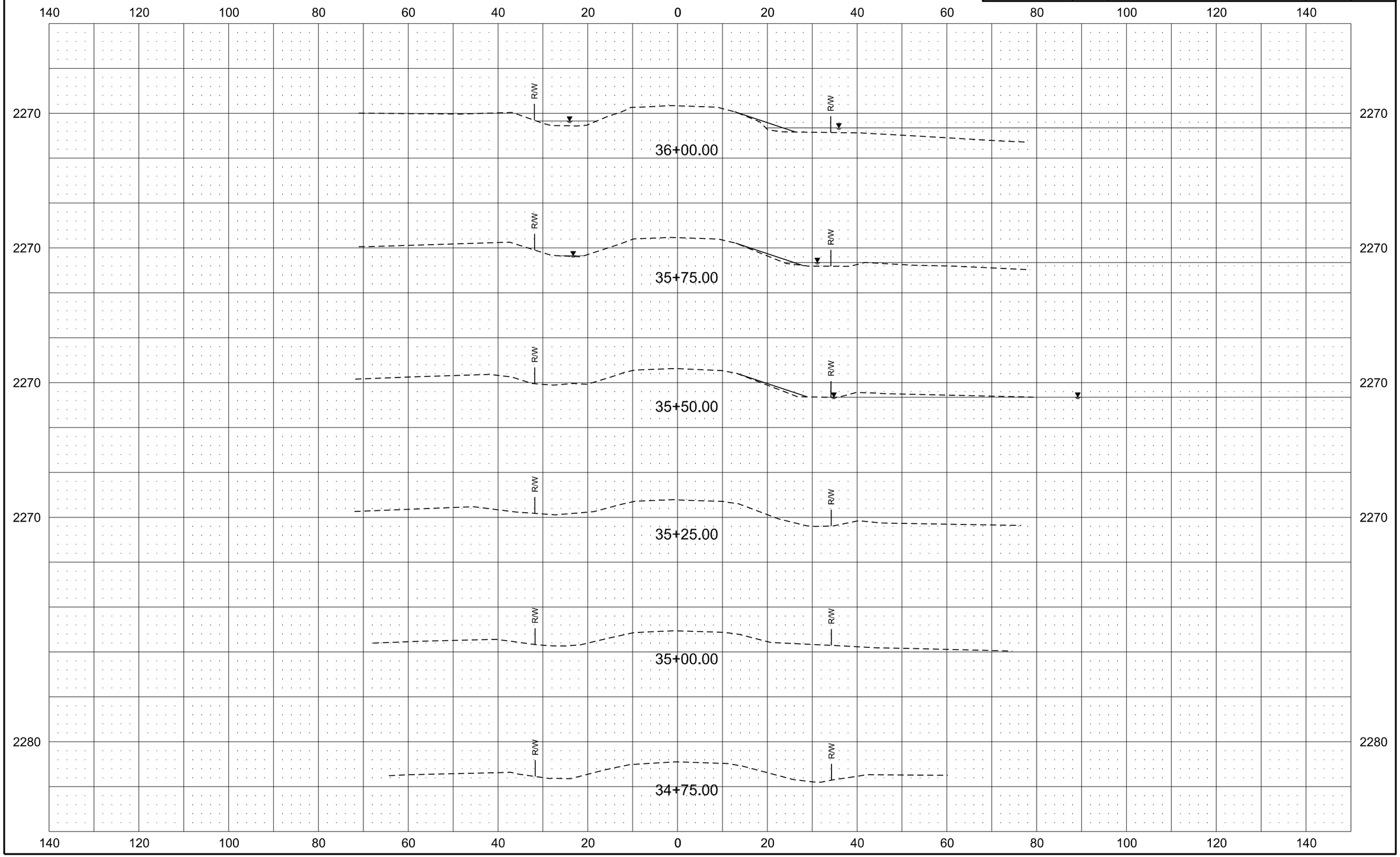
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	34



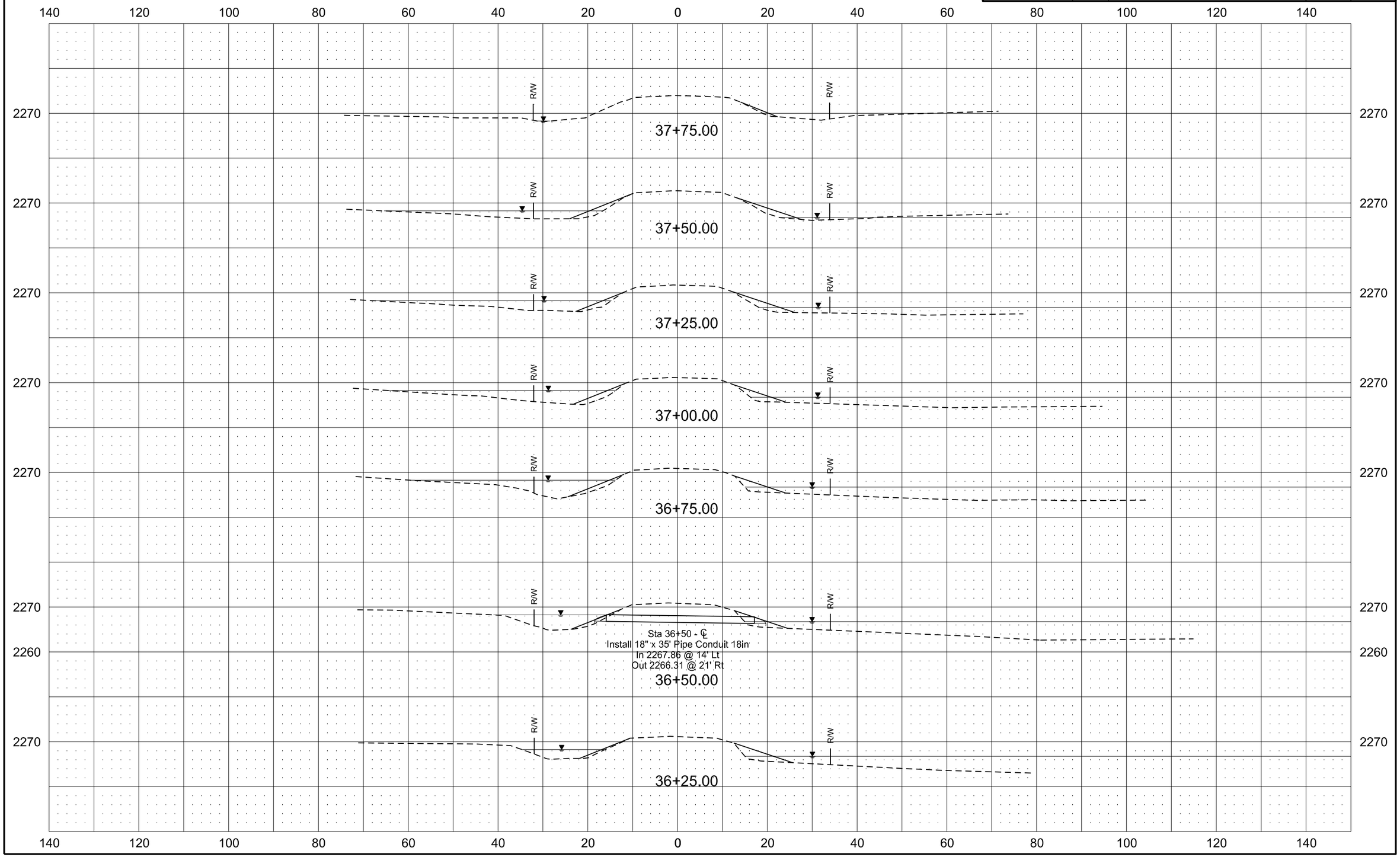
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	35



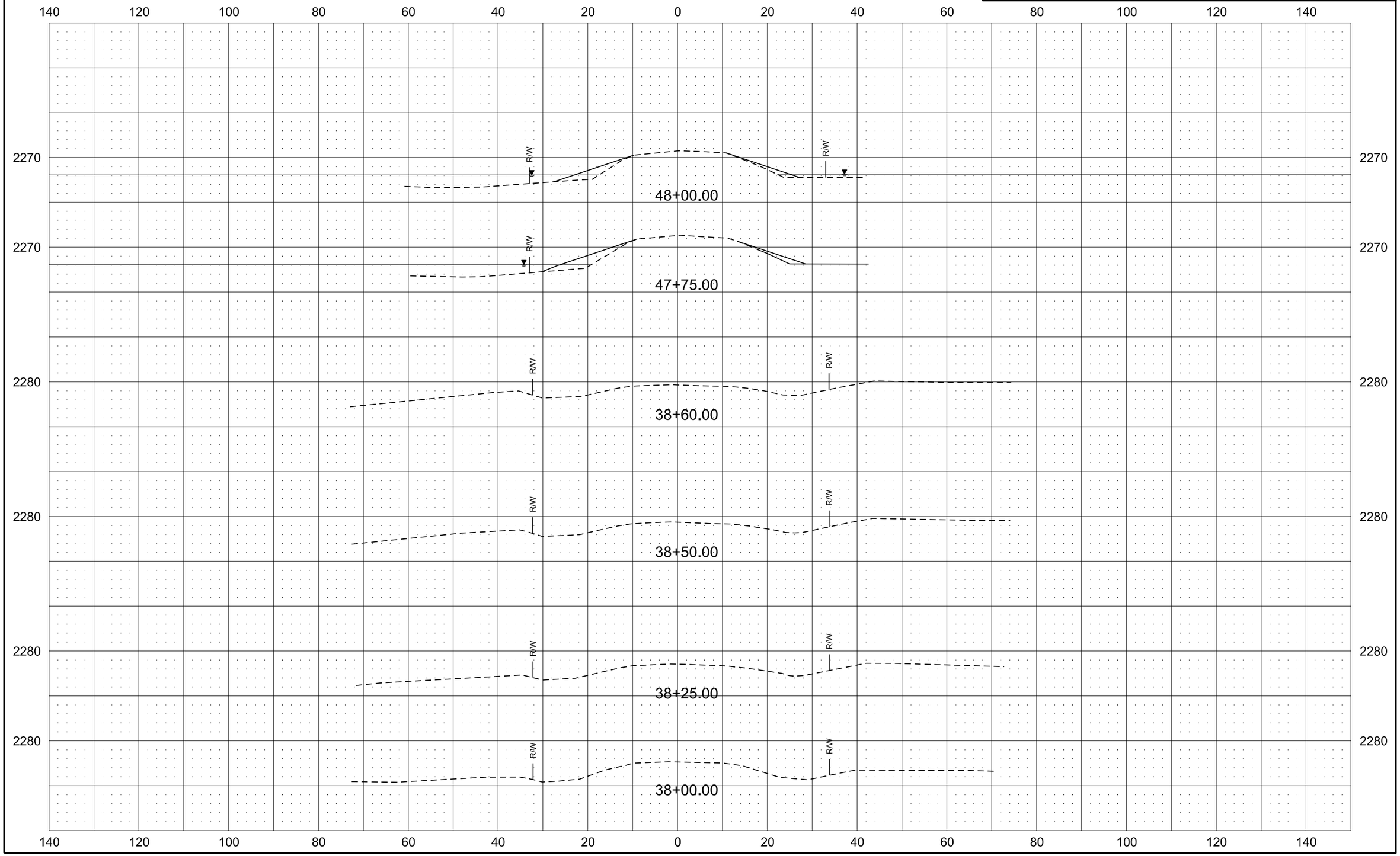
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	36



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	37



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	38

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

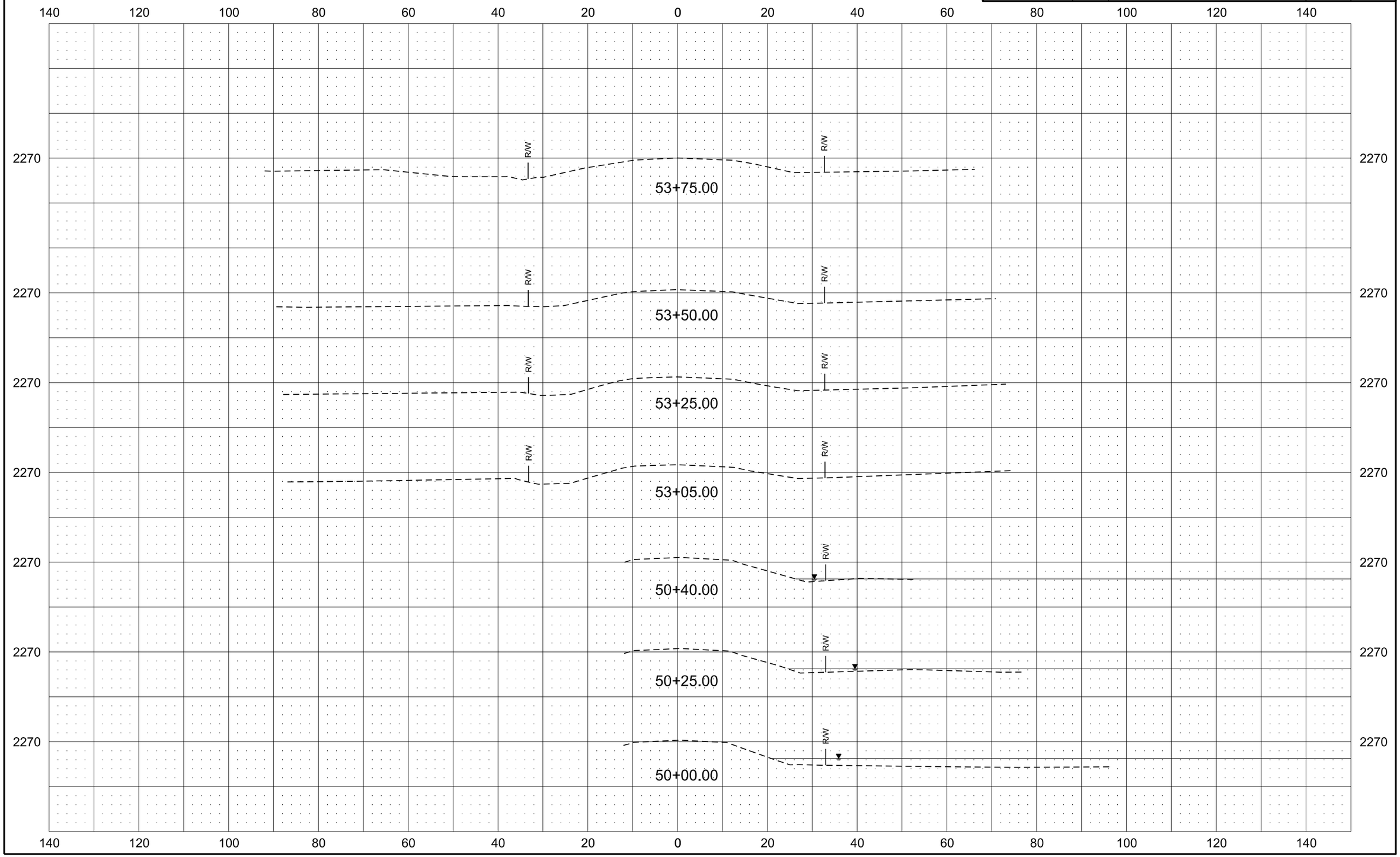
2270 2260

49+75.00
49+50.00
49+25.00
Sta 49+00 - ℄
Install 18" x 43' Pipe Conduit 18in
In 2264.88 @ 21' Rt
Out 2264.61 @ 22' Lt
49+00.00
48+75.00
48+50.00
48+25.00

R/W

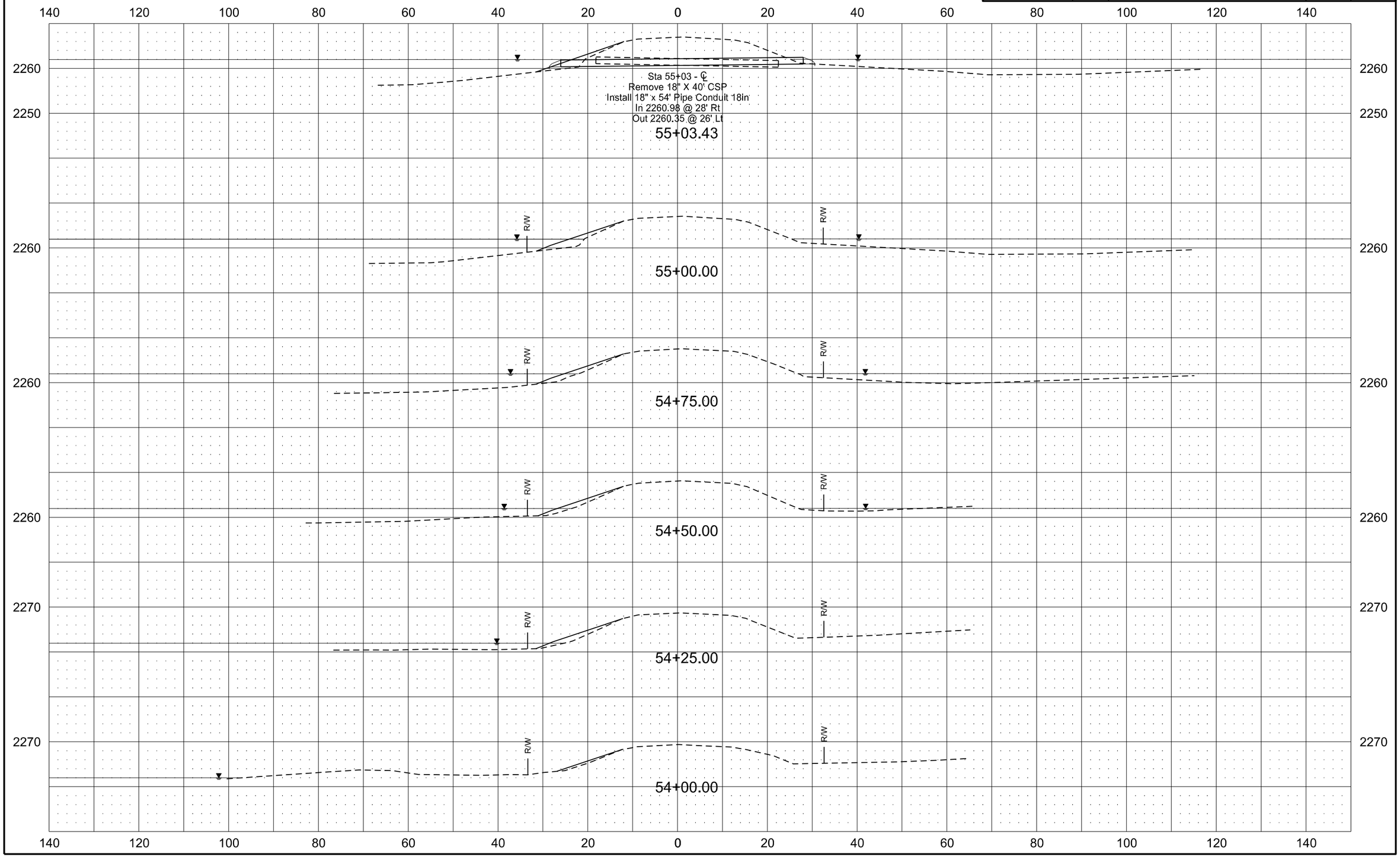
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	39



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	40



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	41

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2260

R/W R/W

56+25.00

56+00.00

55+75.00

55+50.00

55+25.00

Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	42

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2260
2250

R/W

Sta 57+18 - ℄
Remove 18" X 50' CSP
Install 18" x 45' Pipe Conduit 18in
In 2261.08 @ 24' Rt
Out 2260.88 @ 21' Lt
57+18.02

57+00.00

56+75.00

56+50.00

Sta 56+30 - ℄
Remove 18" X 51' CSP
Install 18" x 55' Pipe Conduit 18in
In 2260.88 @ 29' Rt
Out 2259.82 @ 26' Lt
56+30.16

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	43

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2260

R/W R/W

58+50.00

58+25.00

58+00.00

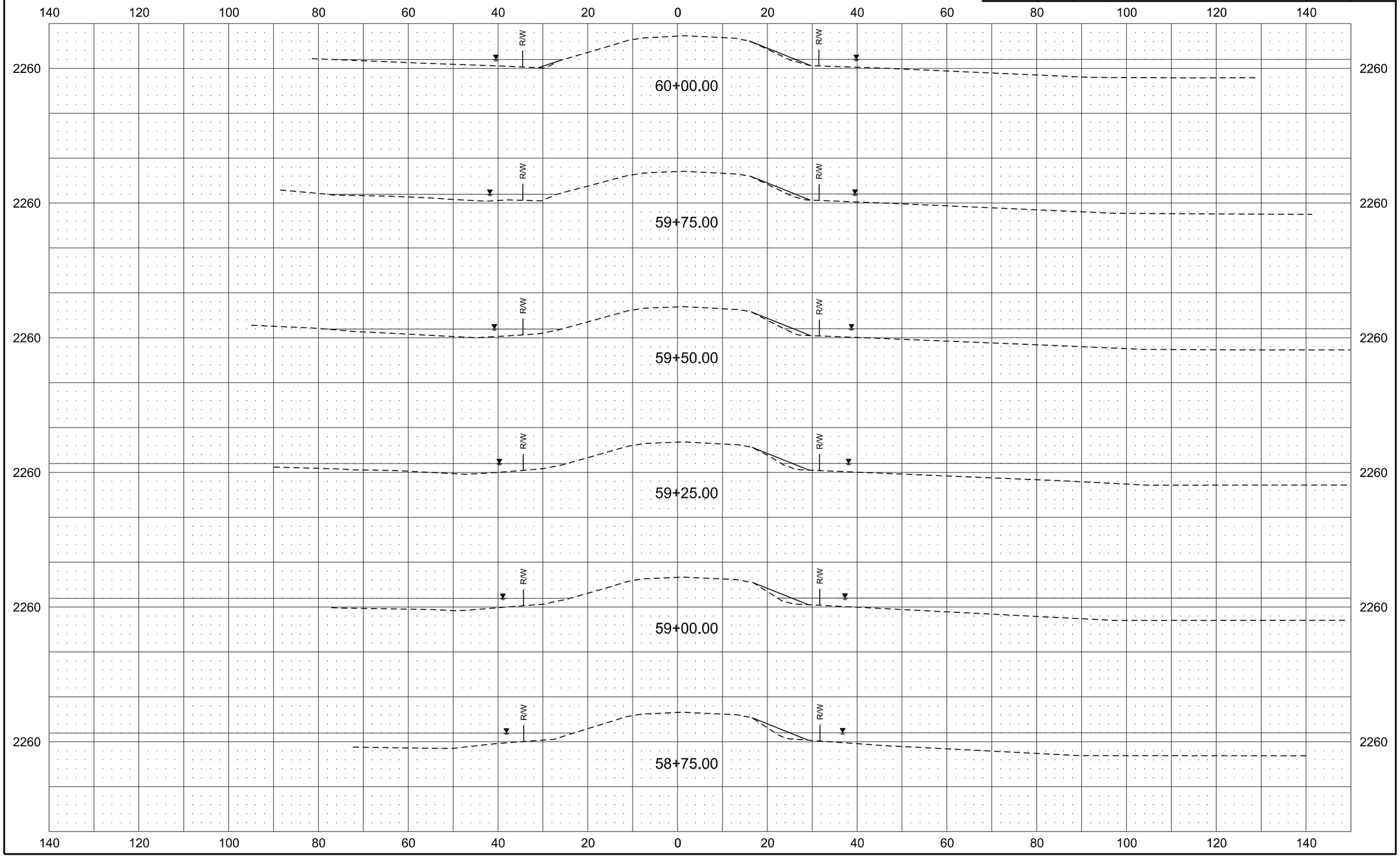
57+75.00

57+50.00

57+25.00

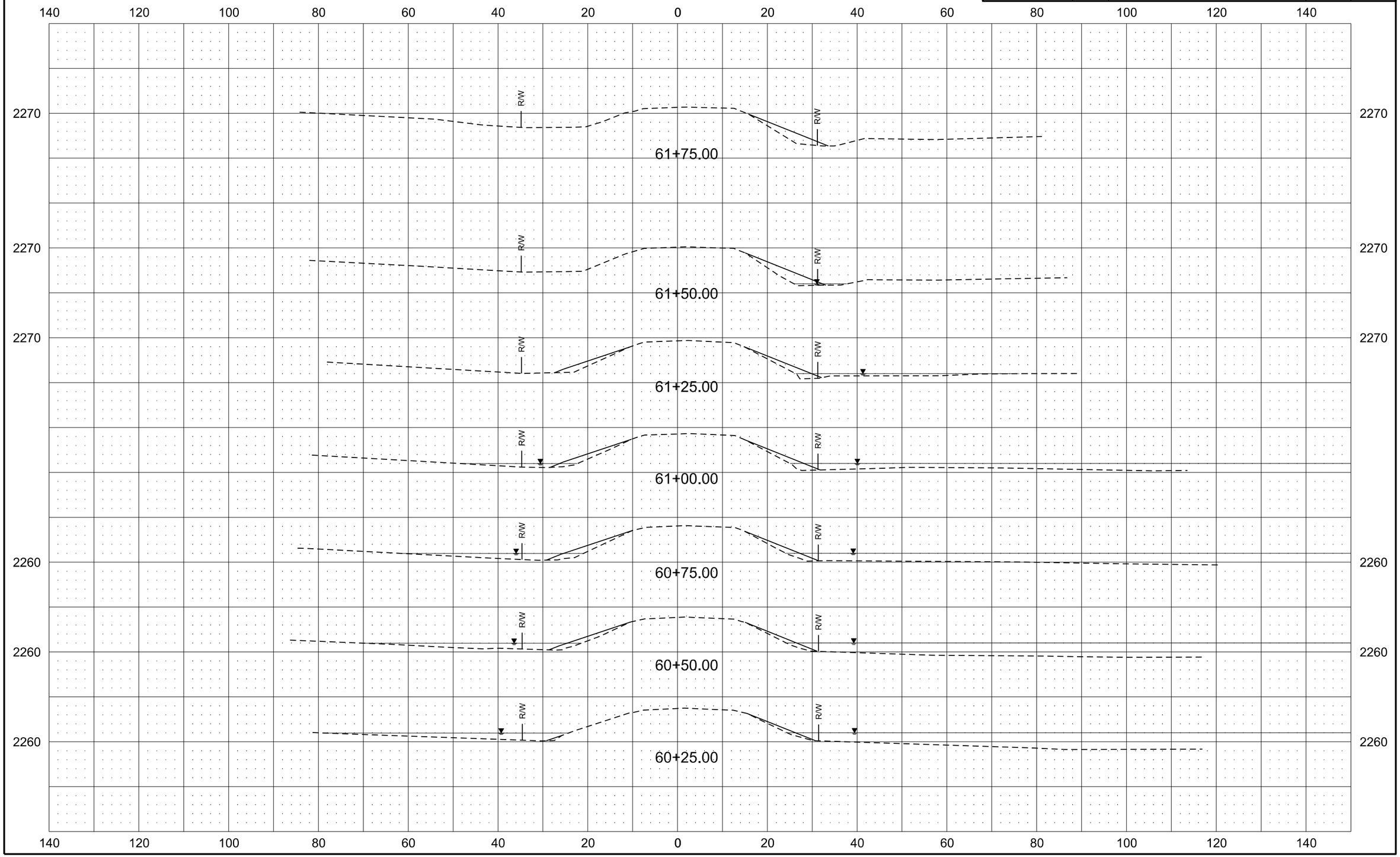
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	44



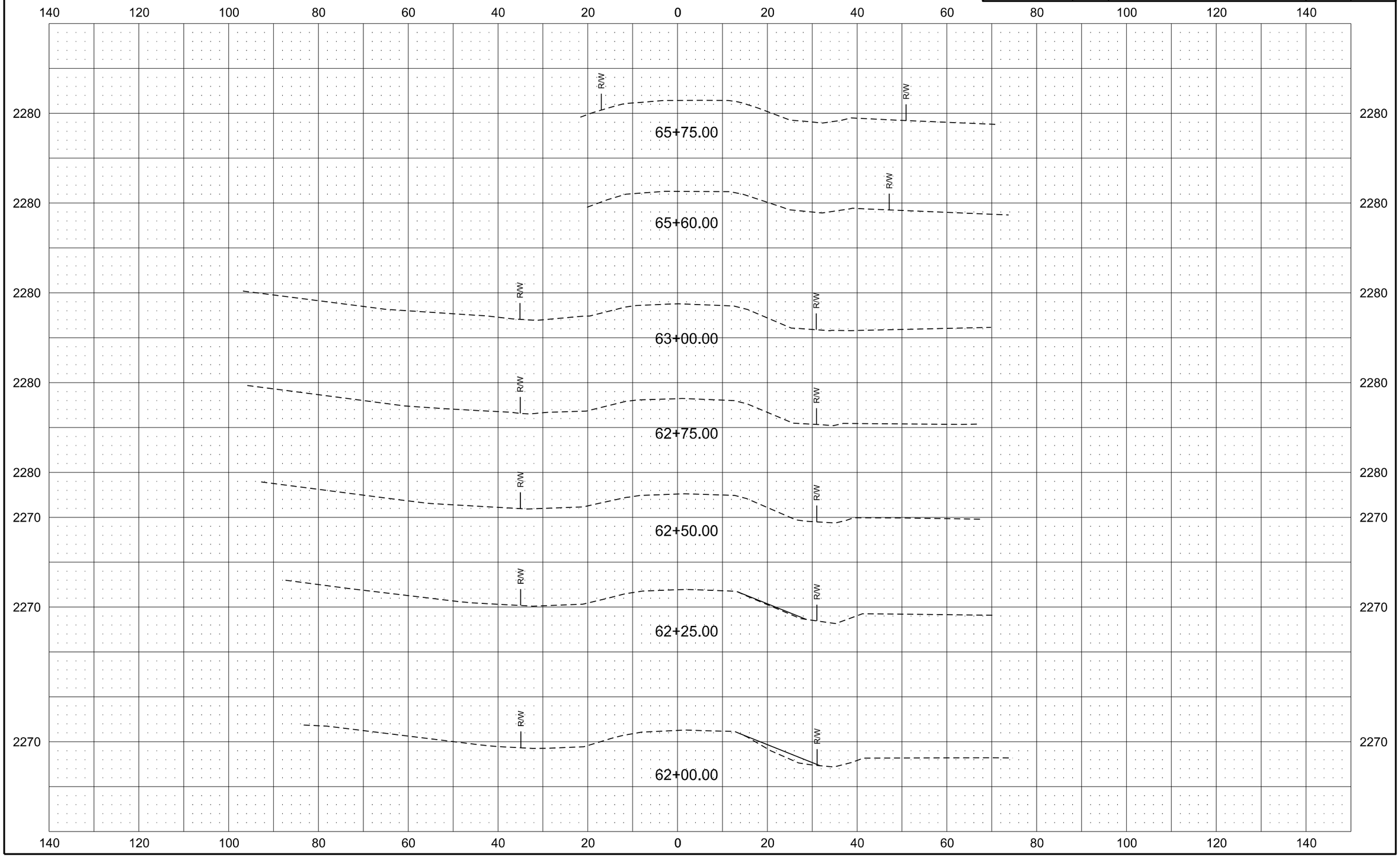
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	45



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	46



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	47

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2290
2280

R/W R/W R/W

67+00.00

R/W R/W R/W

66+75.00

R/W

66+50.00

R/W R/W

66+25.00

R/W R/W

66+00.00

Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	48

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2290
2280

R/W R/W R/W

68+25.00

68+00.00

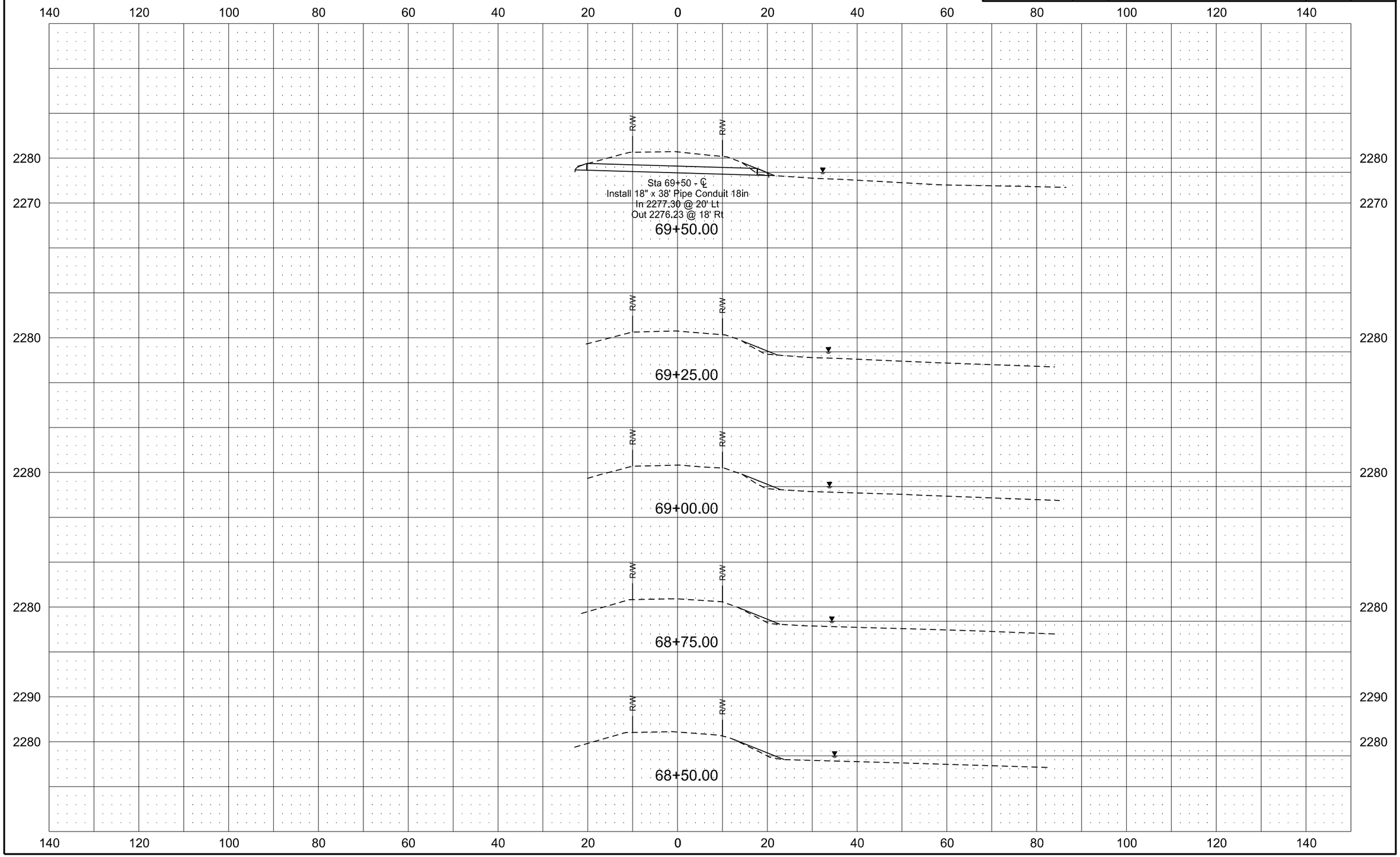
67+75.00

67+50.00

67+25.00

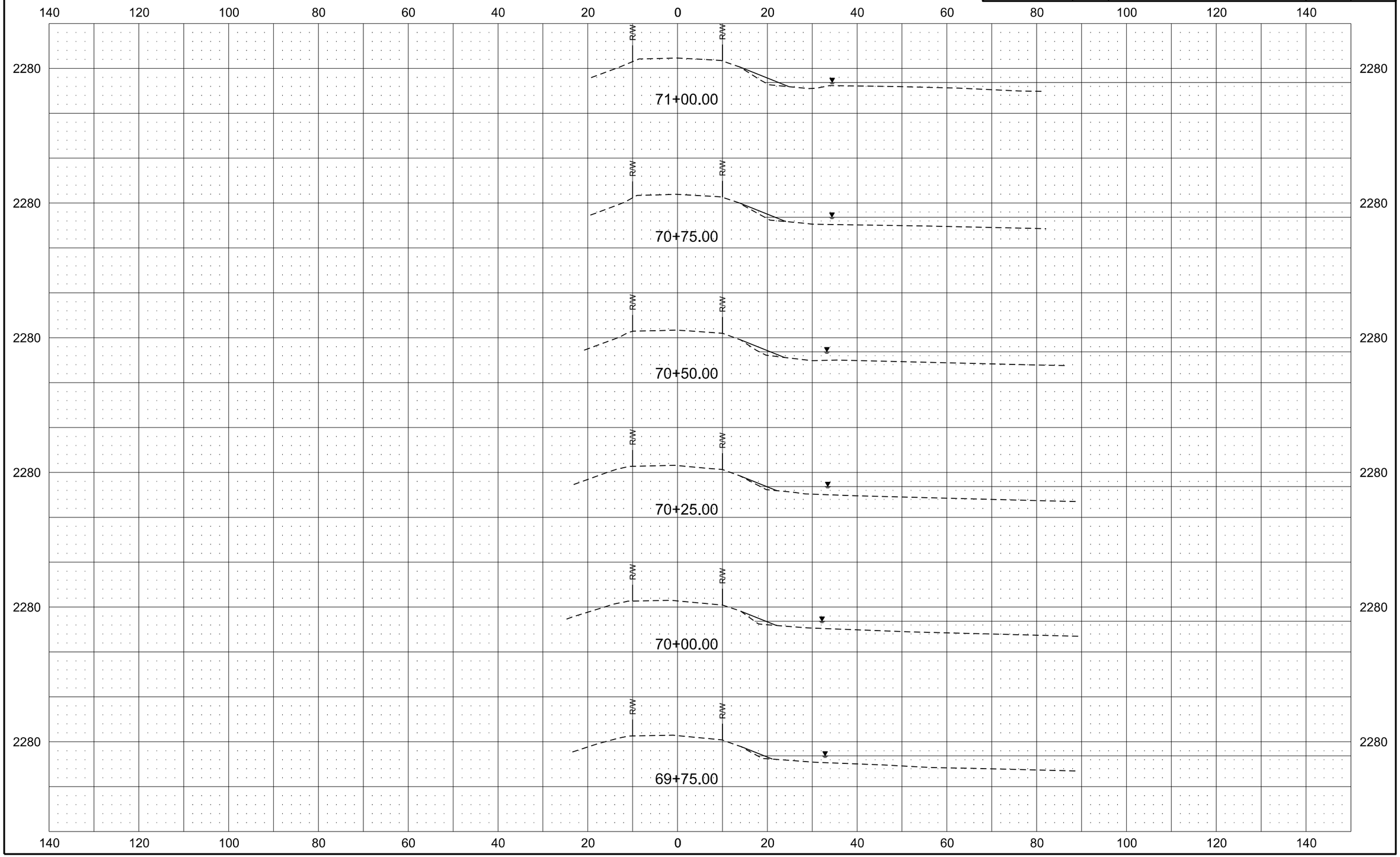
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	49



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	50



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	51

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2290
2280

R/W R/W R/W

72+25.00

72+00.00

71+75.00

71+50.00

71+25.00

Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	52

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2300
2290

R/W

73+50.00

73+25.00

73+00.00

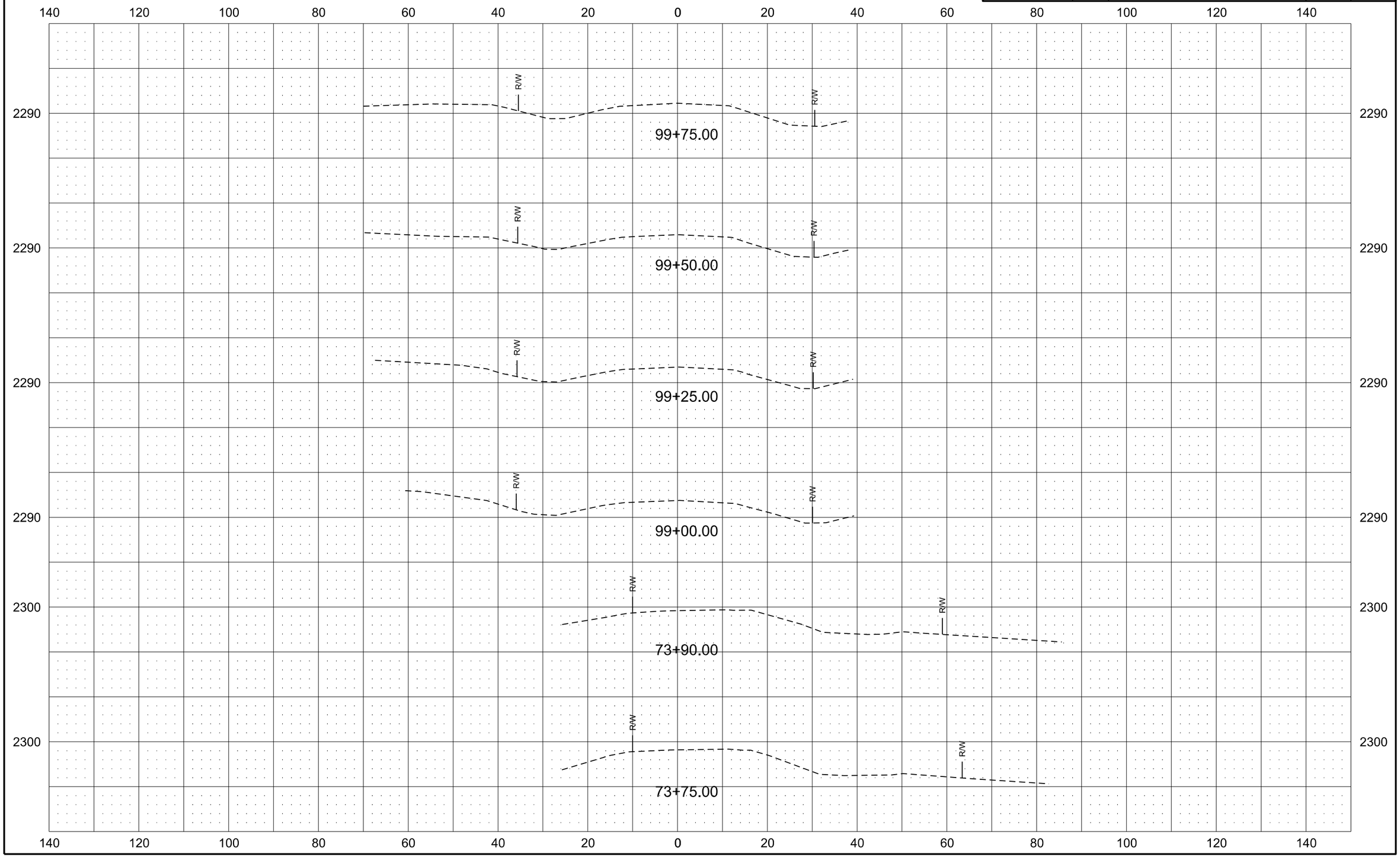
72+75.00

72+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

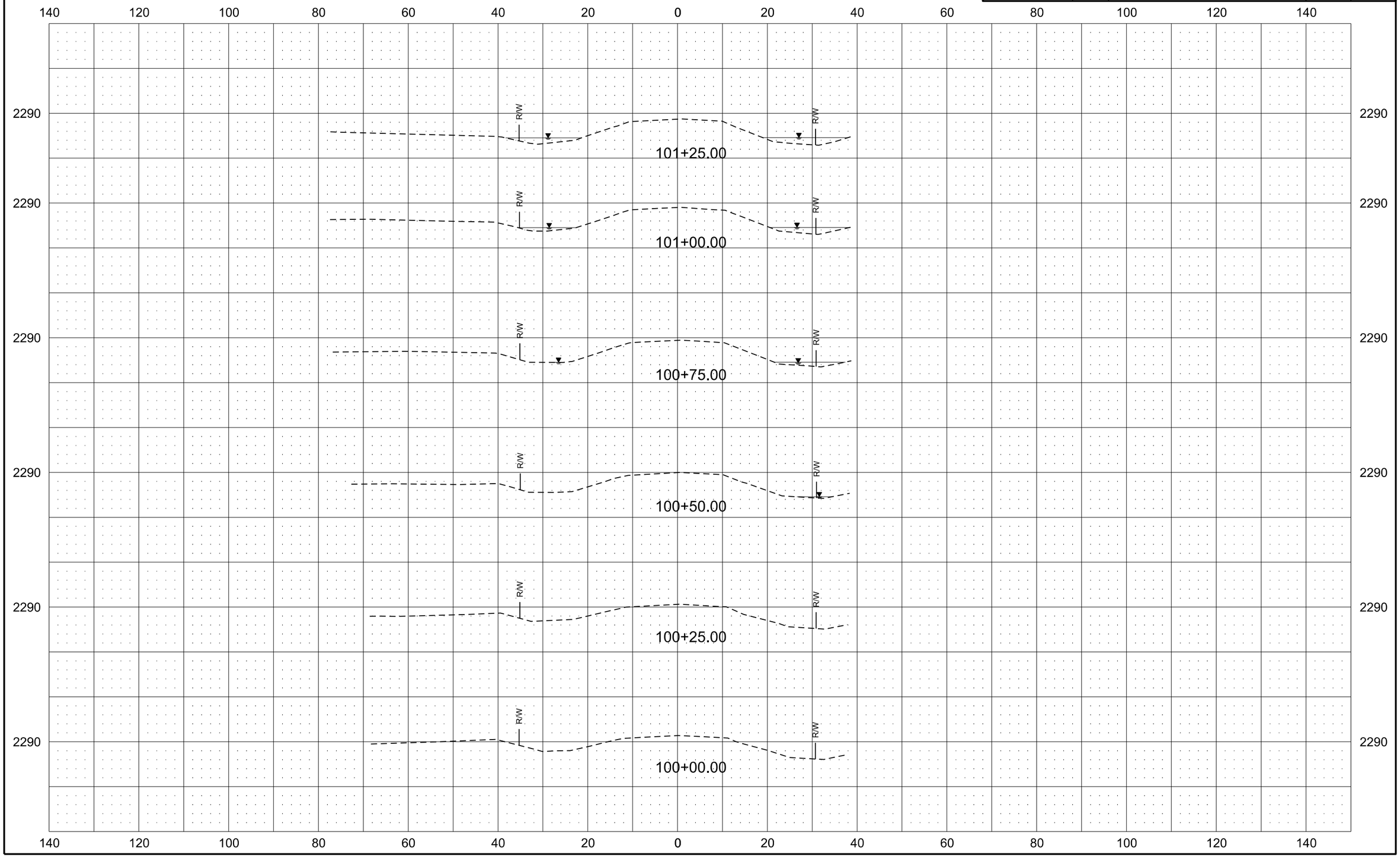
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	53



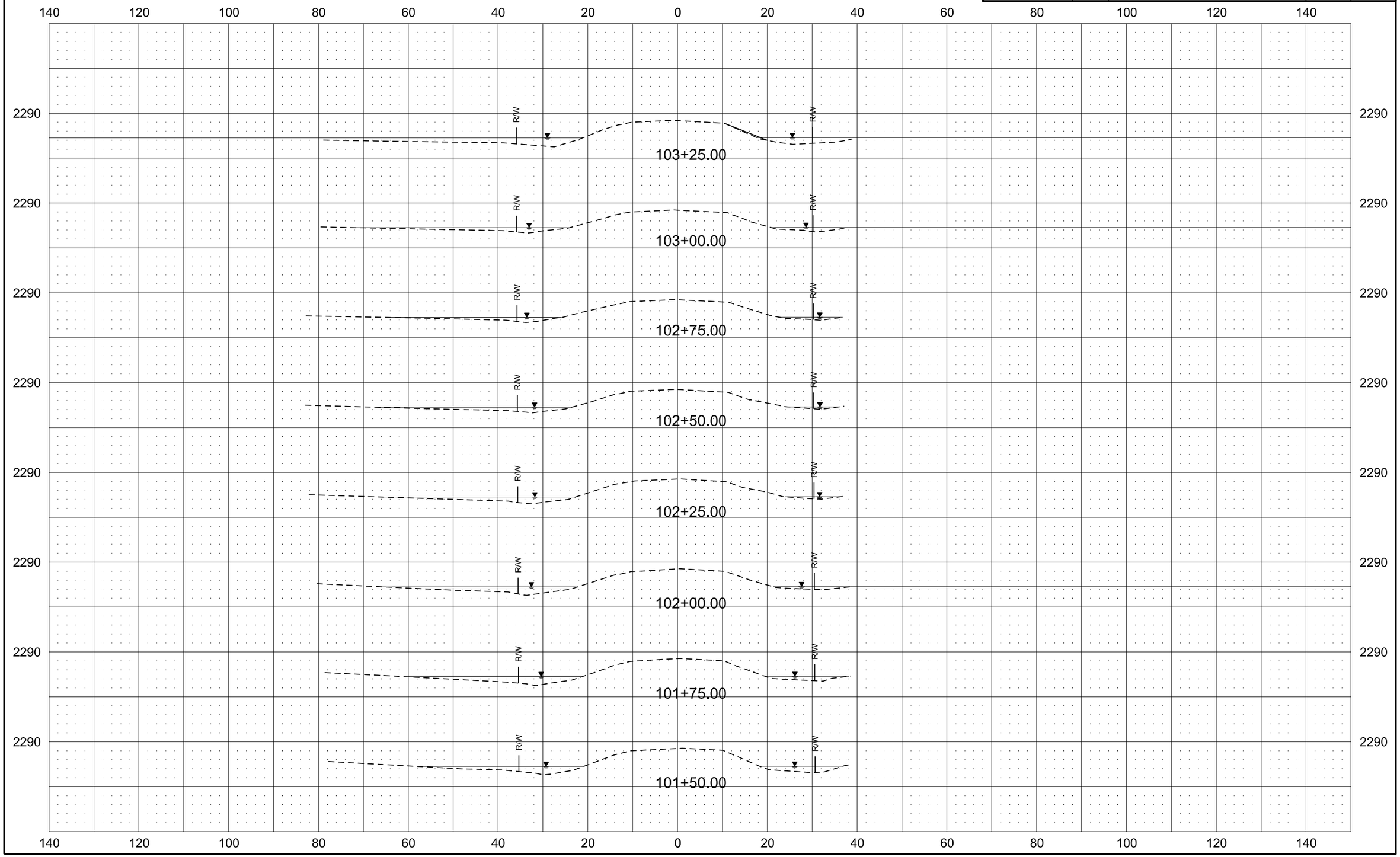
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	54



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	55



Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	56

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2290

R/W R/W

105+25.00

105+00.00

104+75.00

104+50.00

Sta 104+25 - ℄
Install 18" x 36' Pipe Conduit 18in
In 2283.07 @ 17' Rt
Out 2282.56 @ 19' Lt

104+25.00

104+00.00

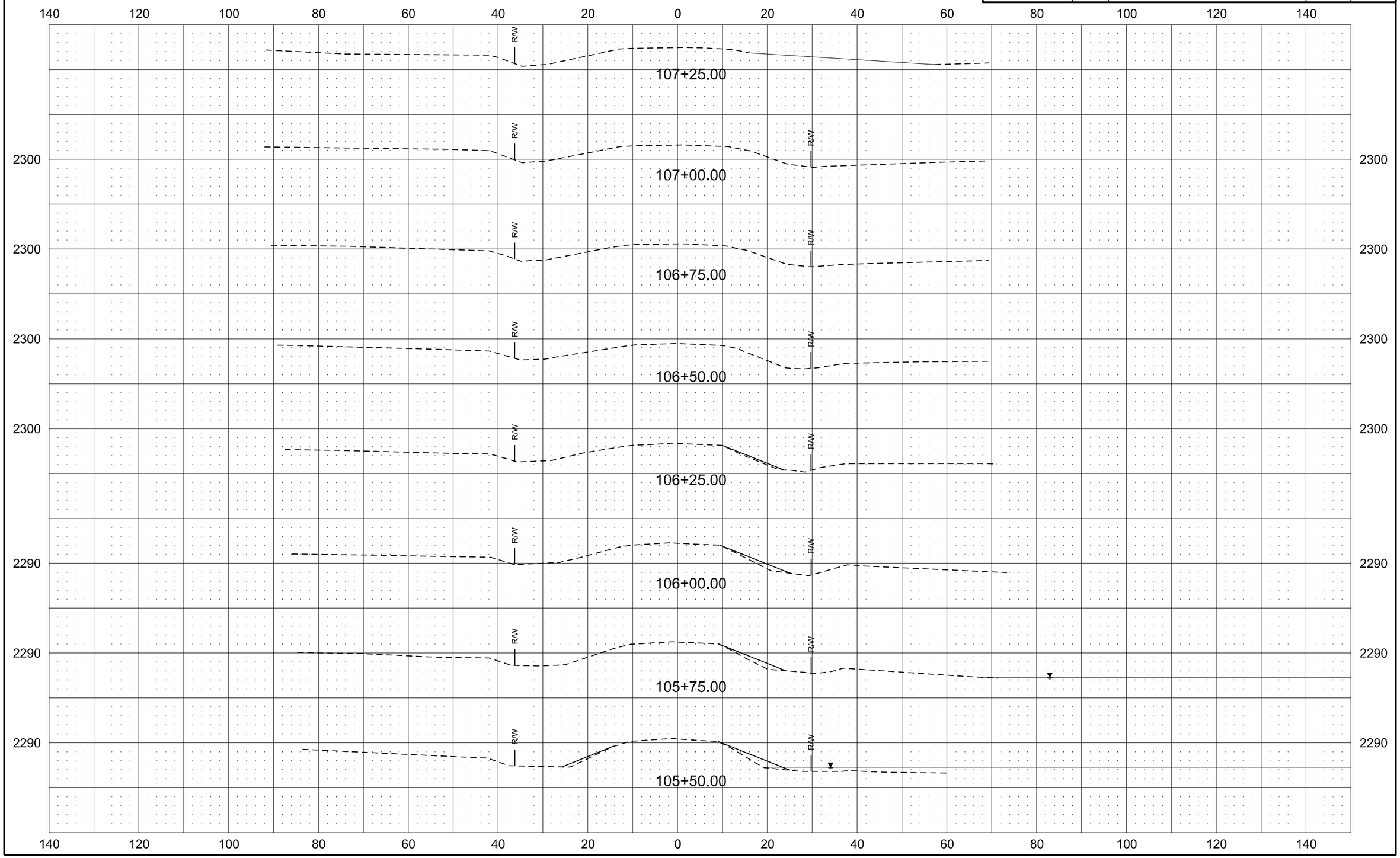
103+75.00

103+50.00

2280

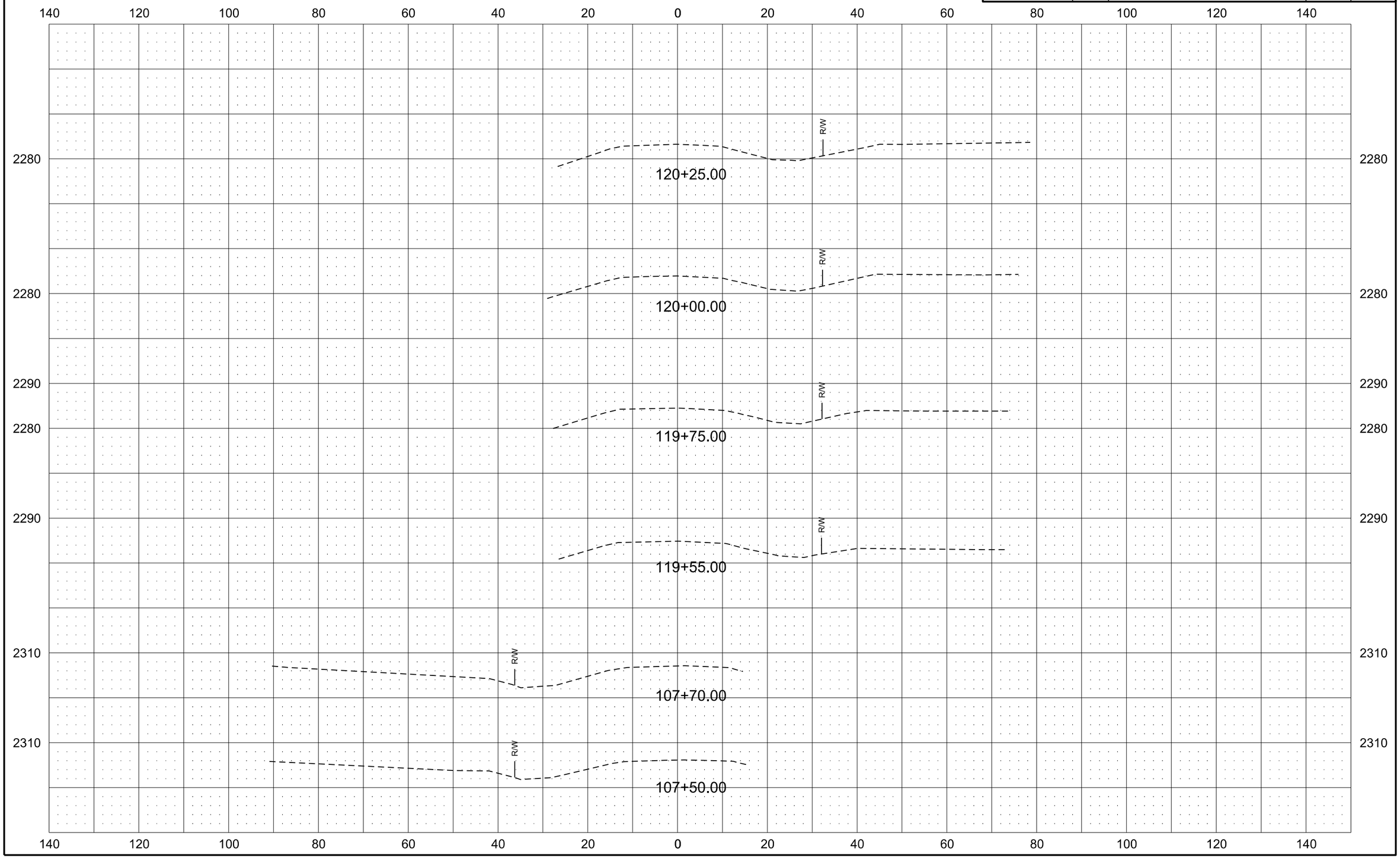
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	57



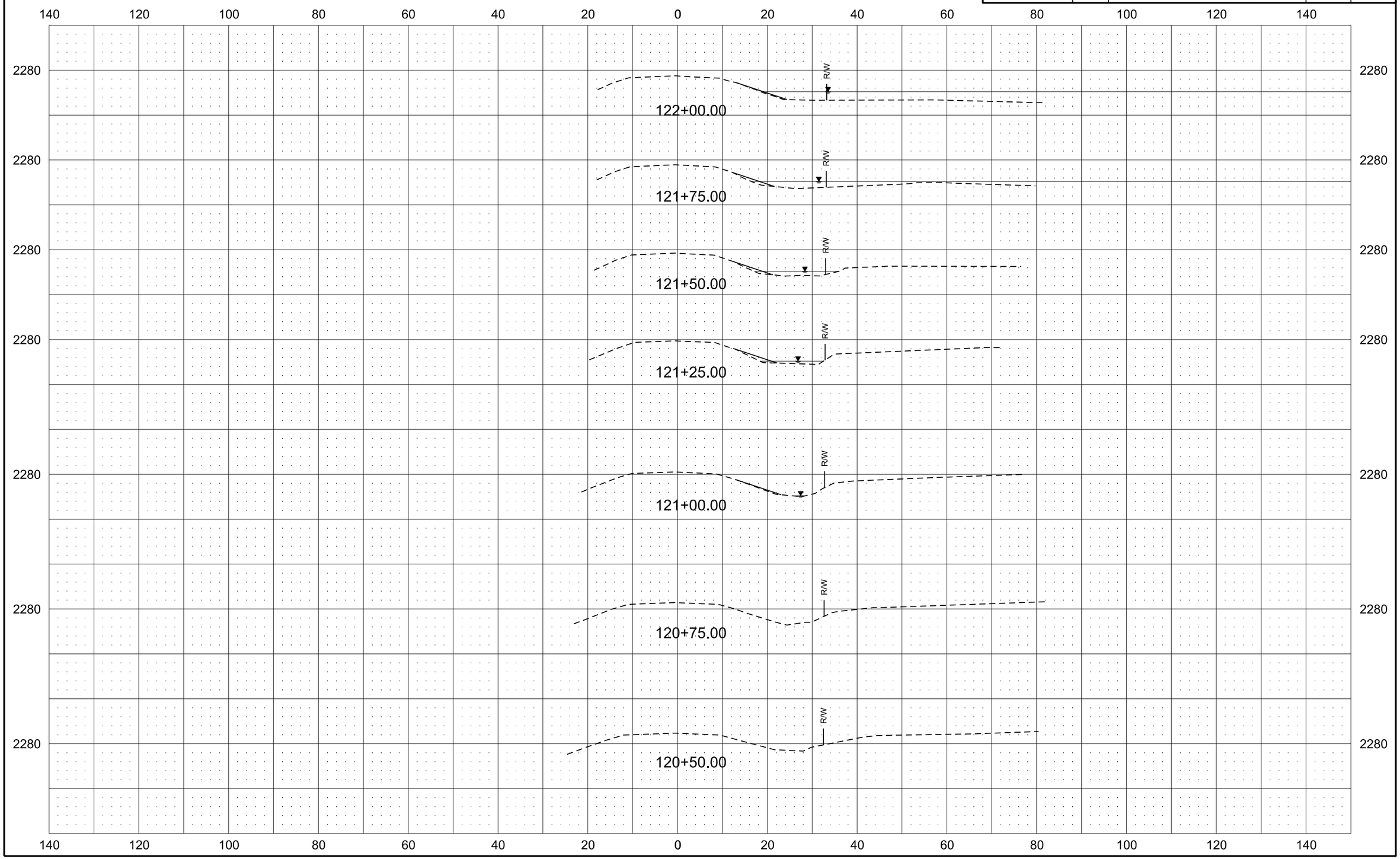
Alignment K-6S

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	58



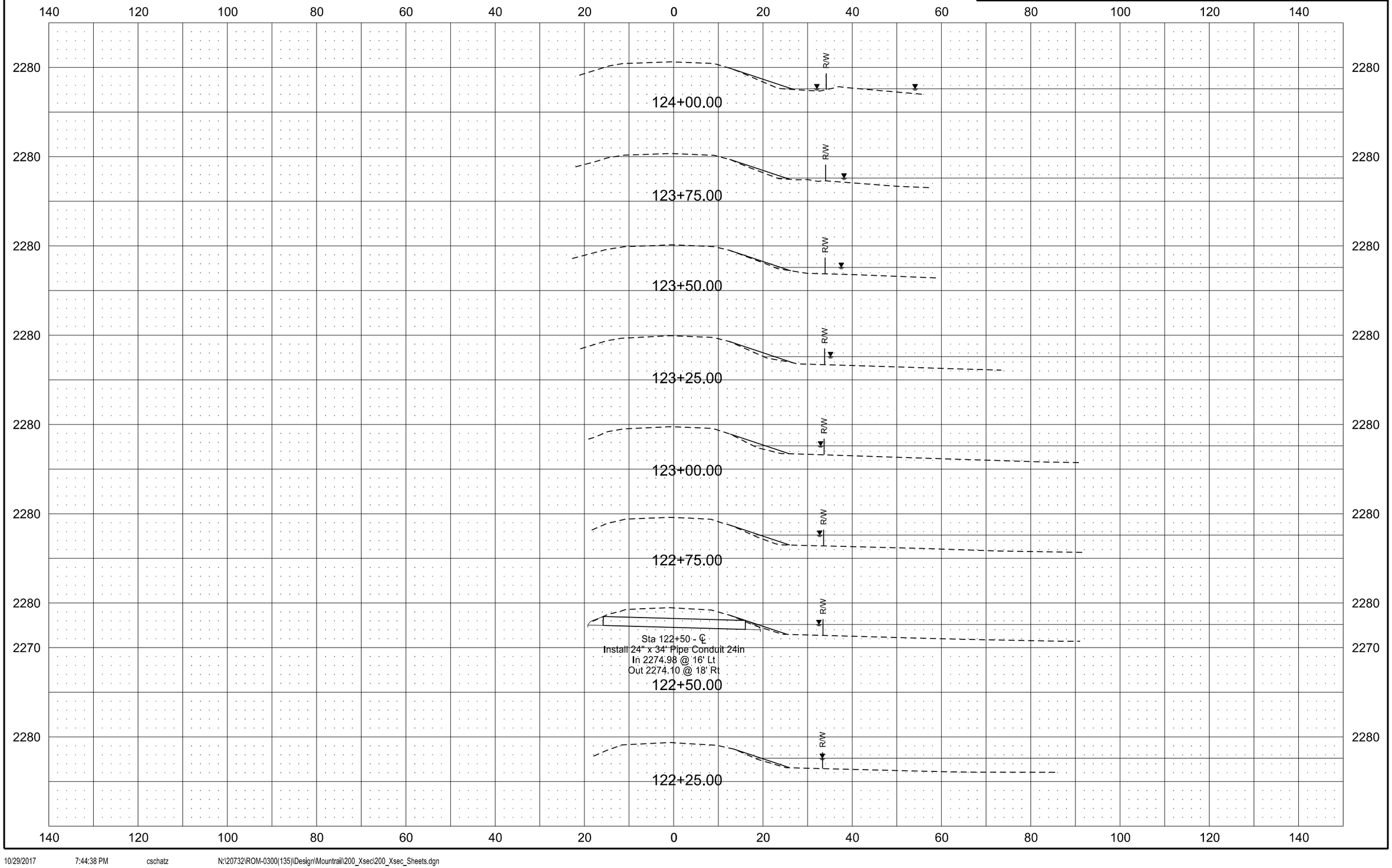
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	59



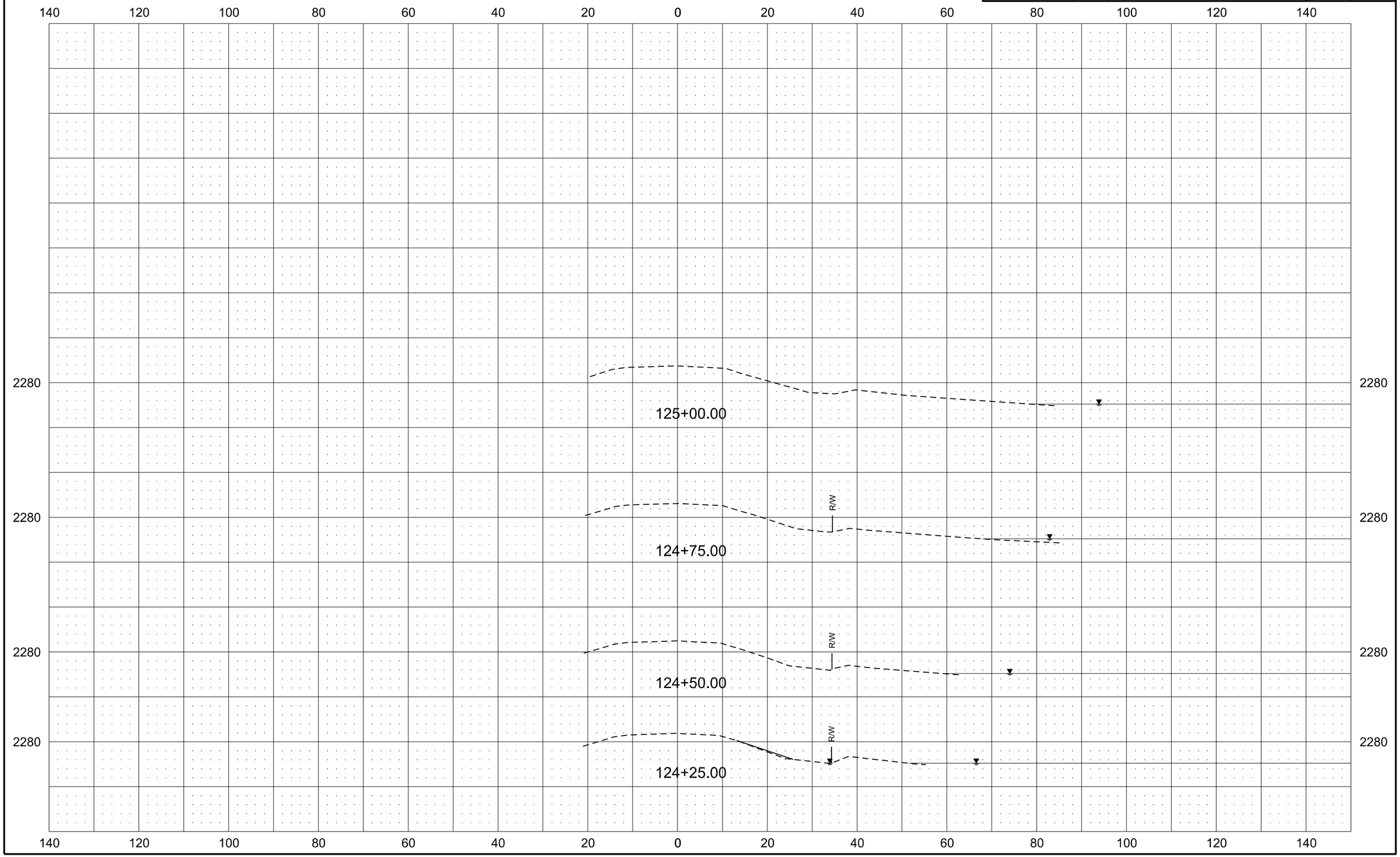
Alignment K-6S

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	60



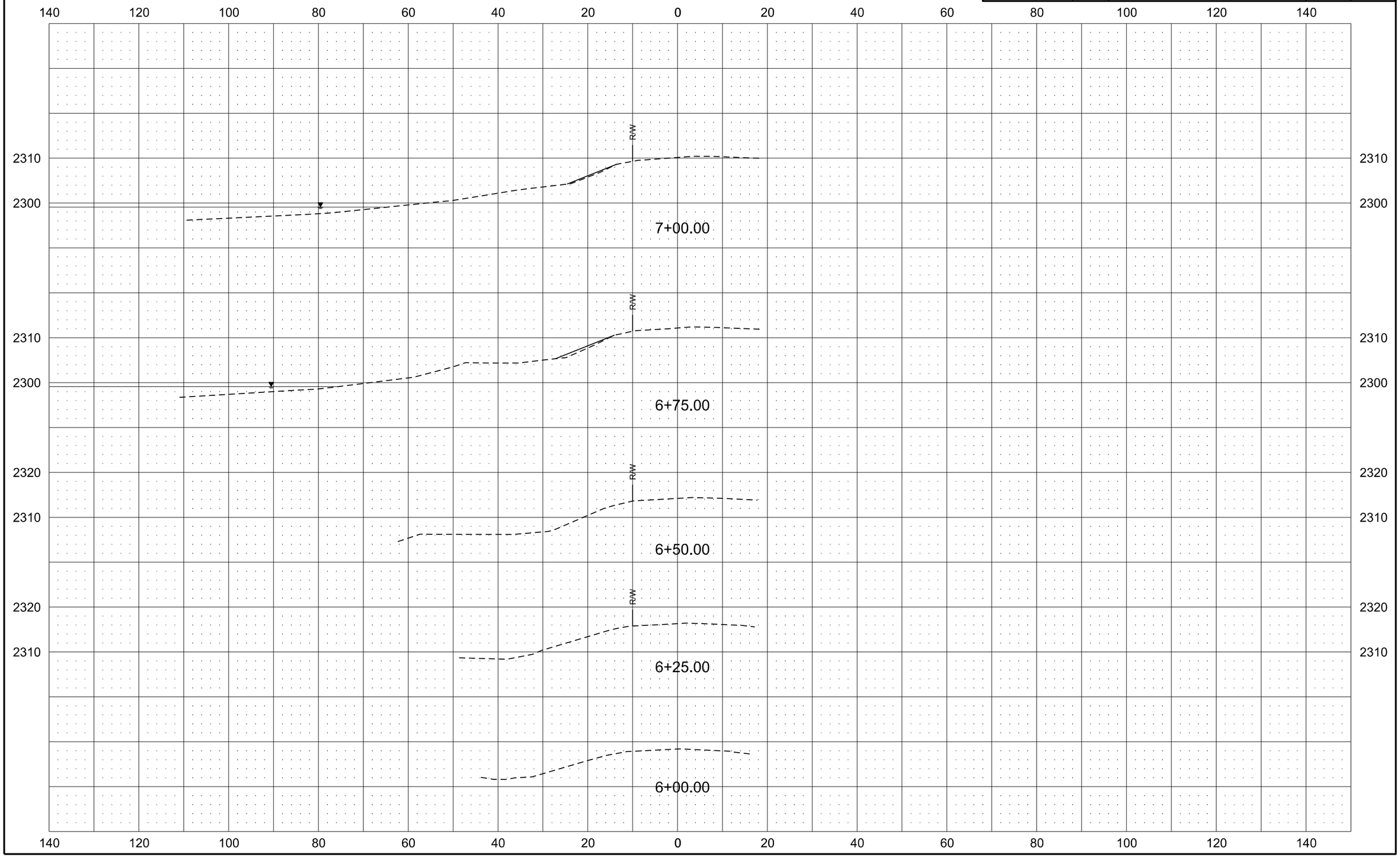
Alignment K-6S

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	61



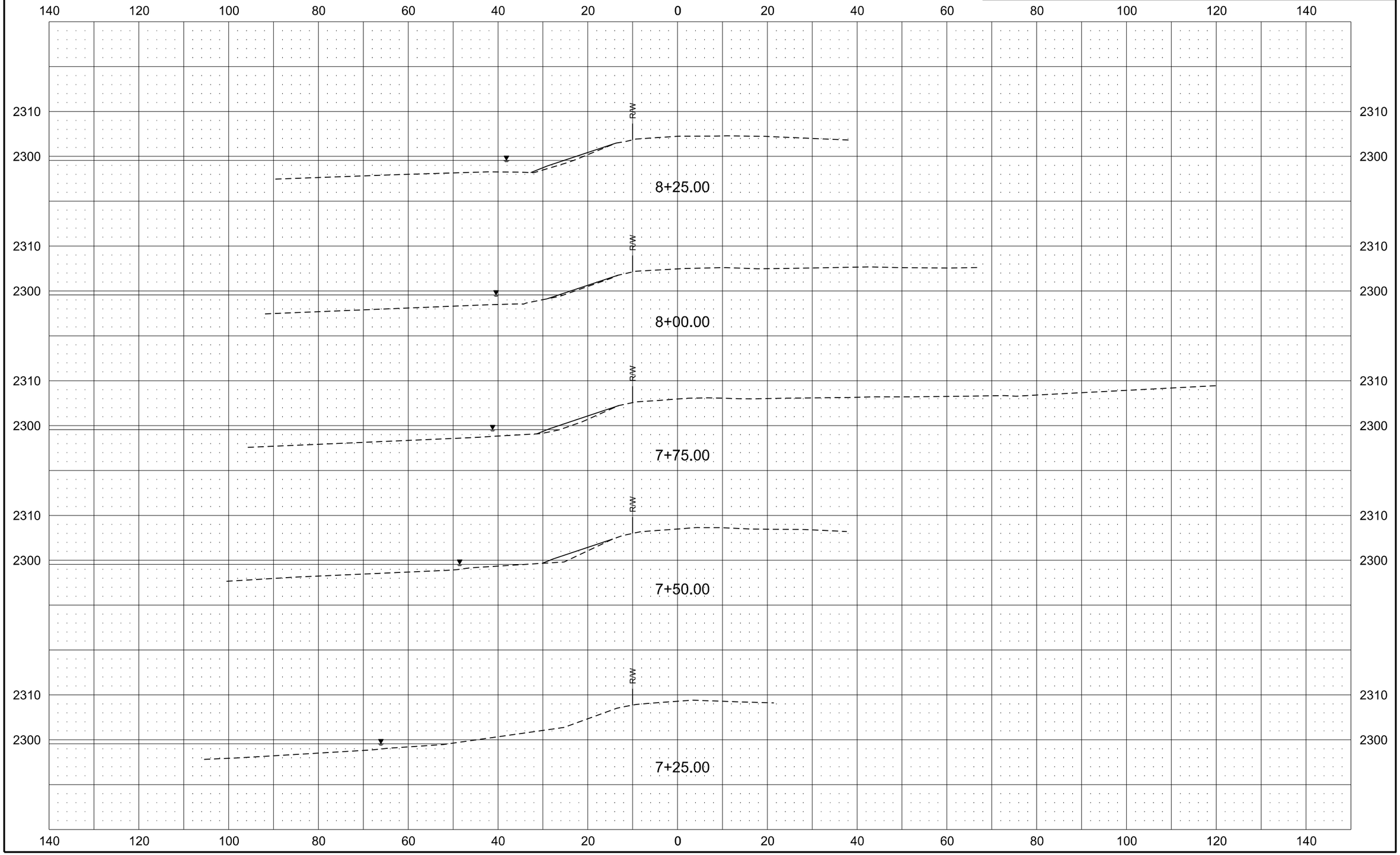
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	62



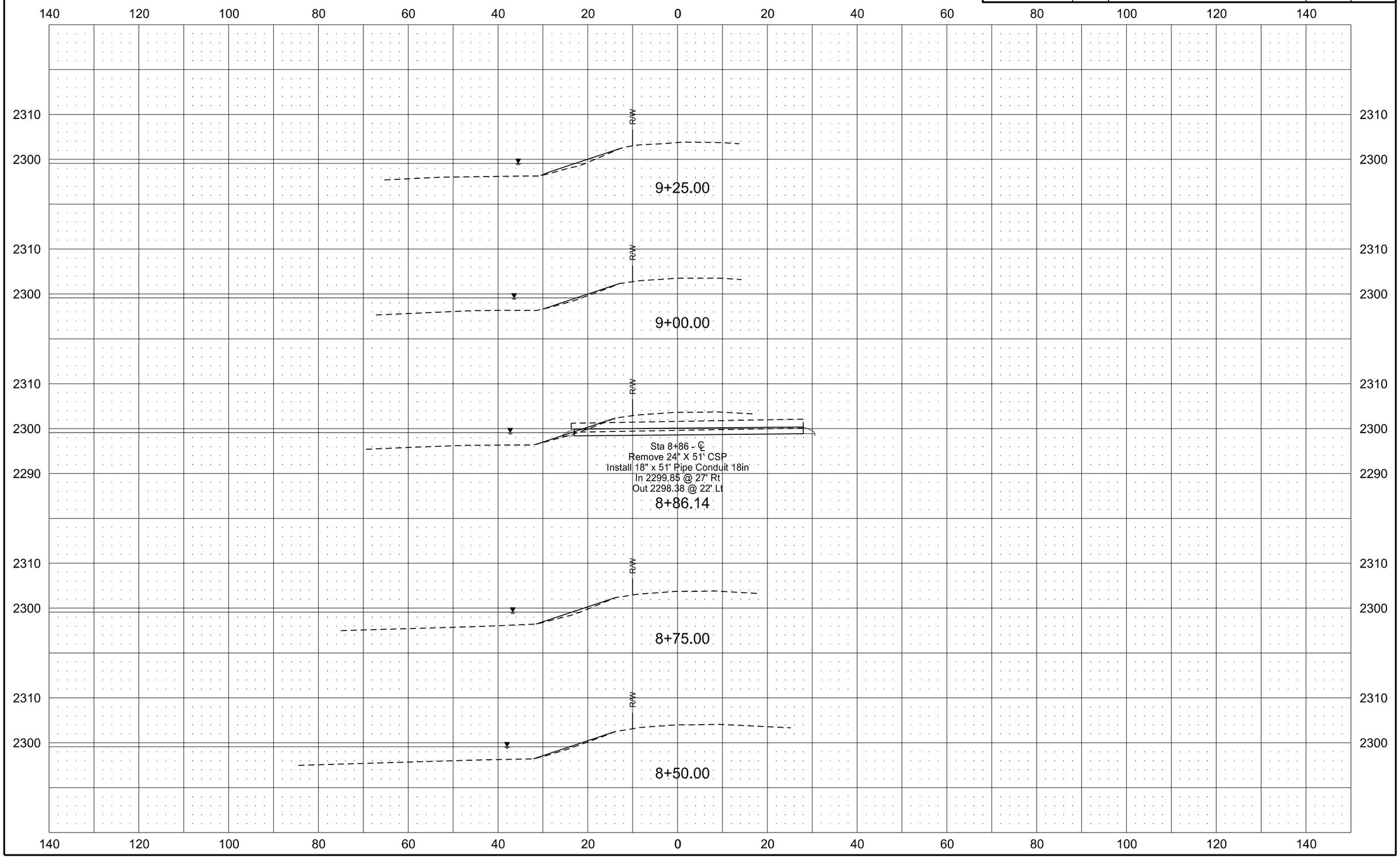
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	63



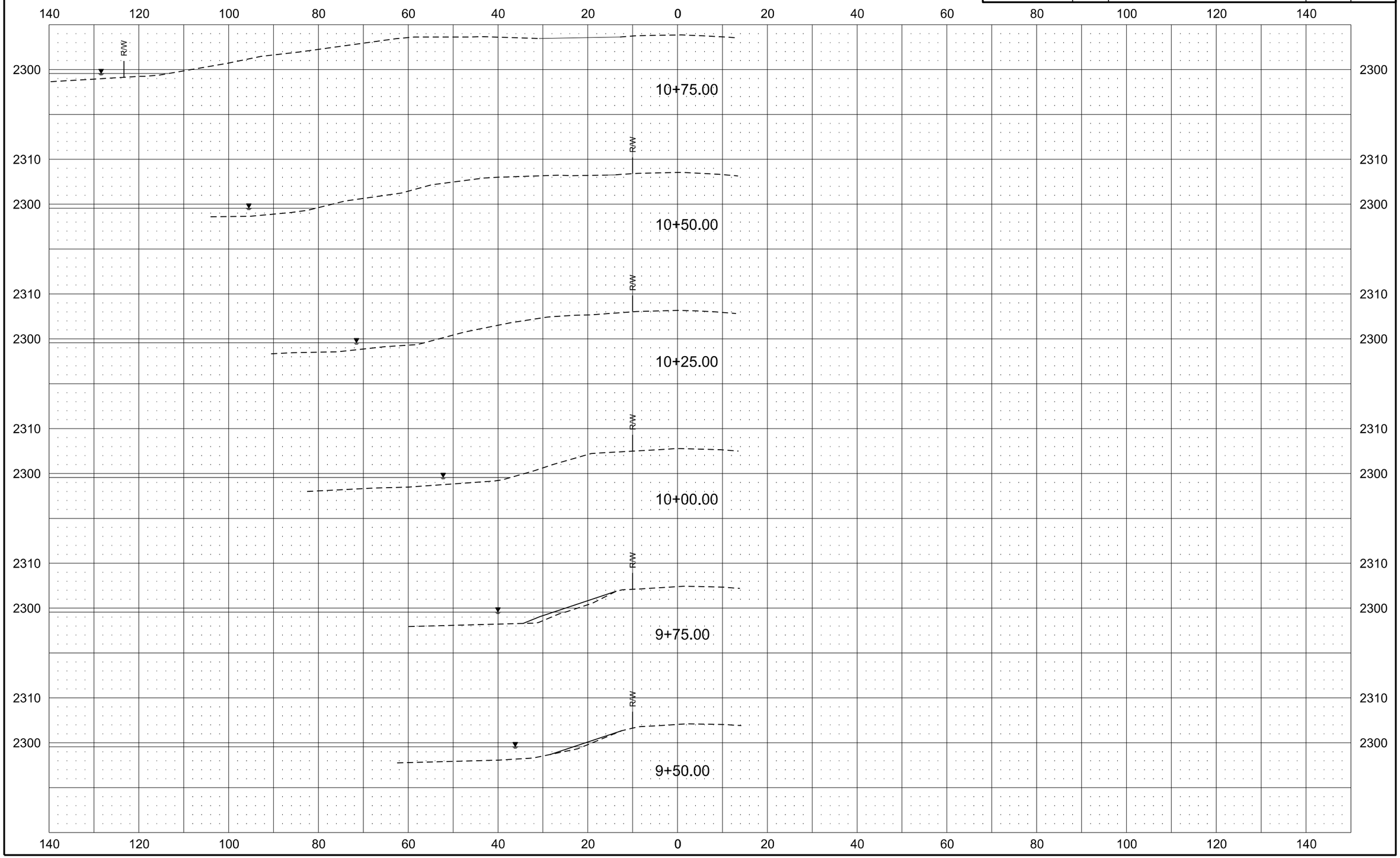
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	64



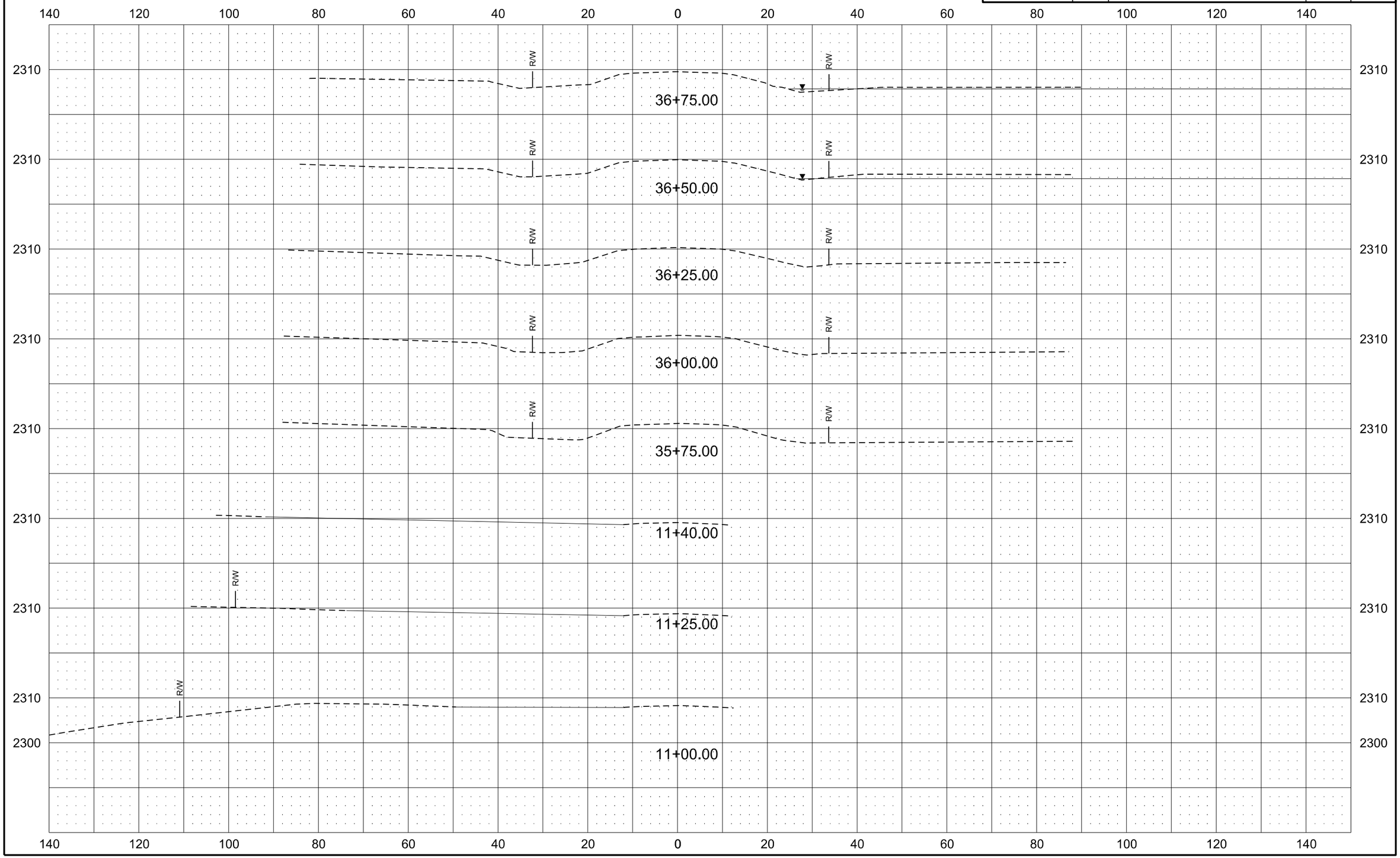
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	65



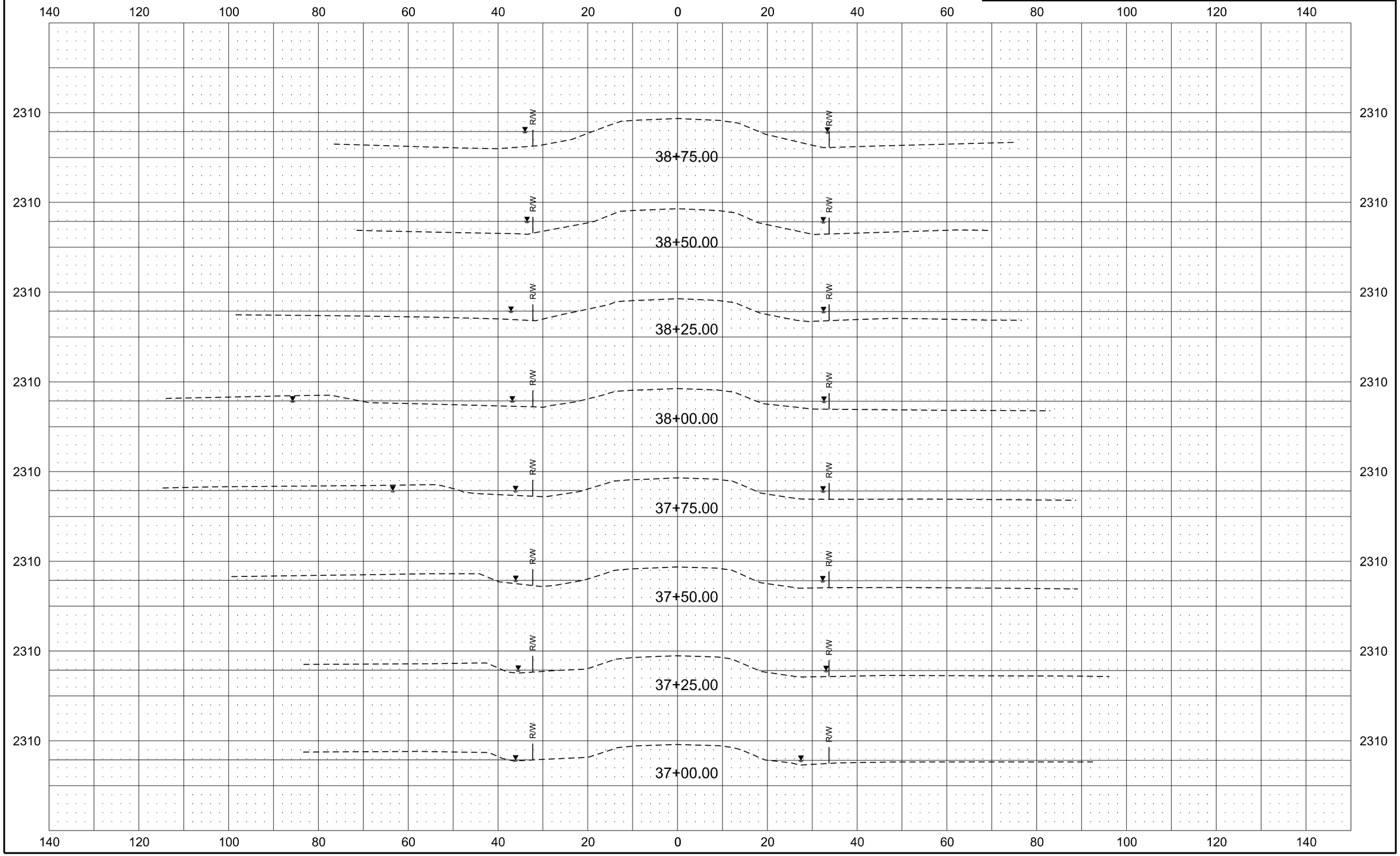
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	66



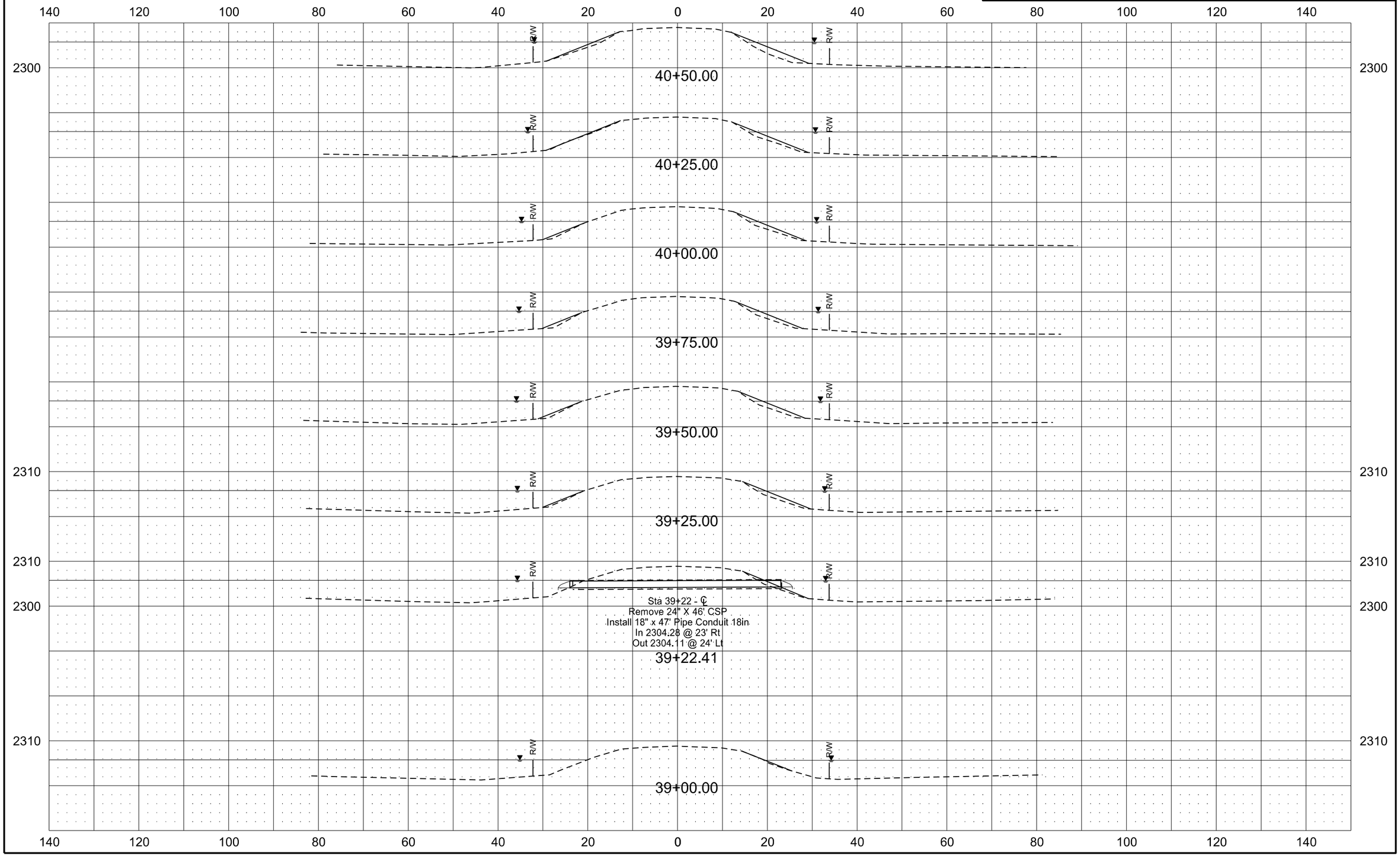
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	67



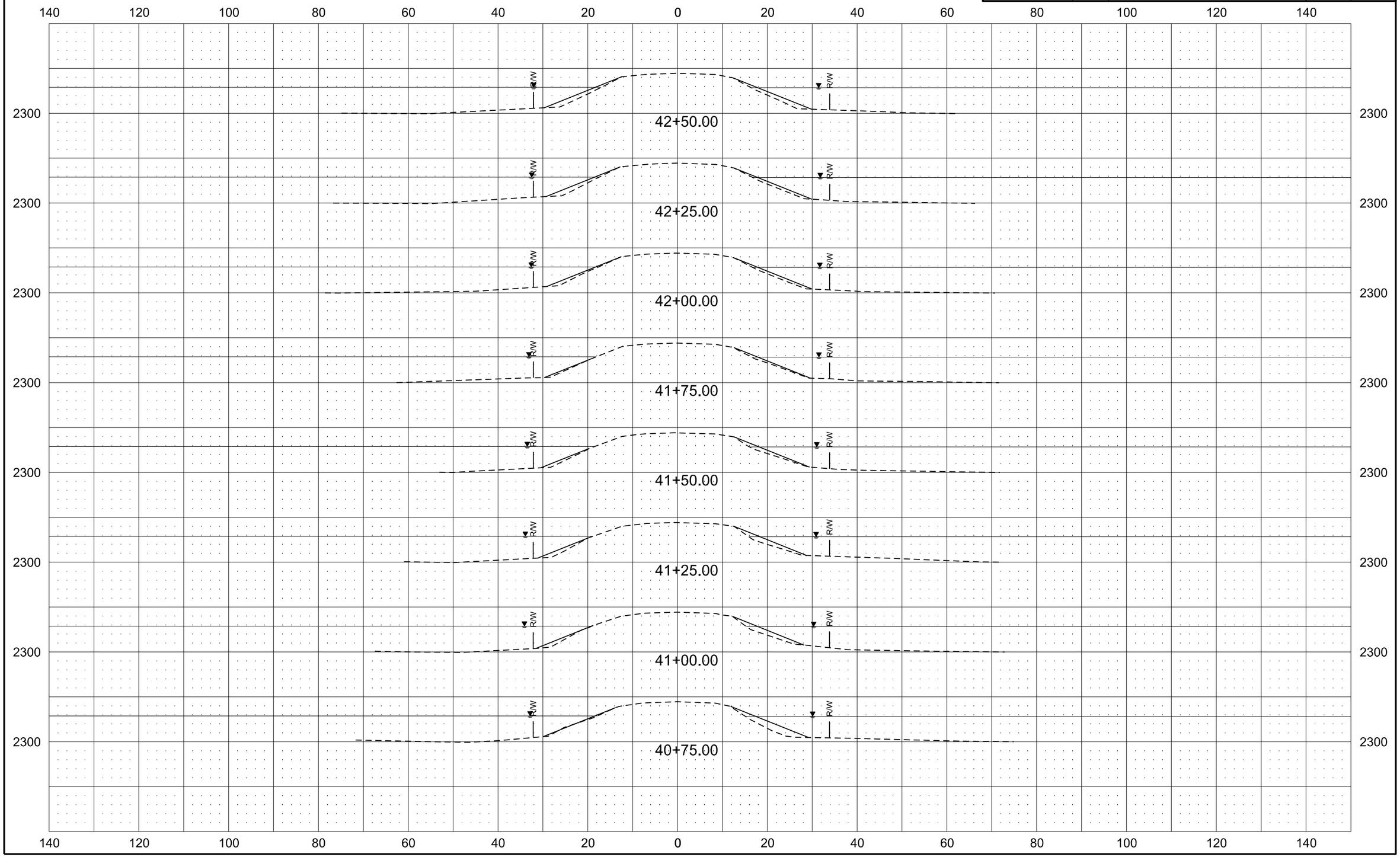
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	68



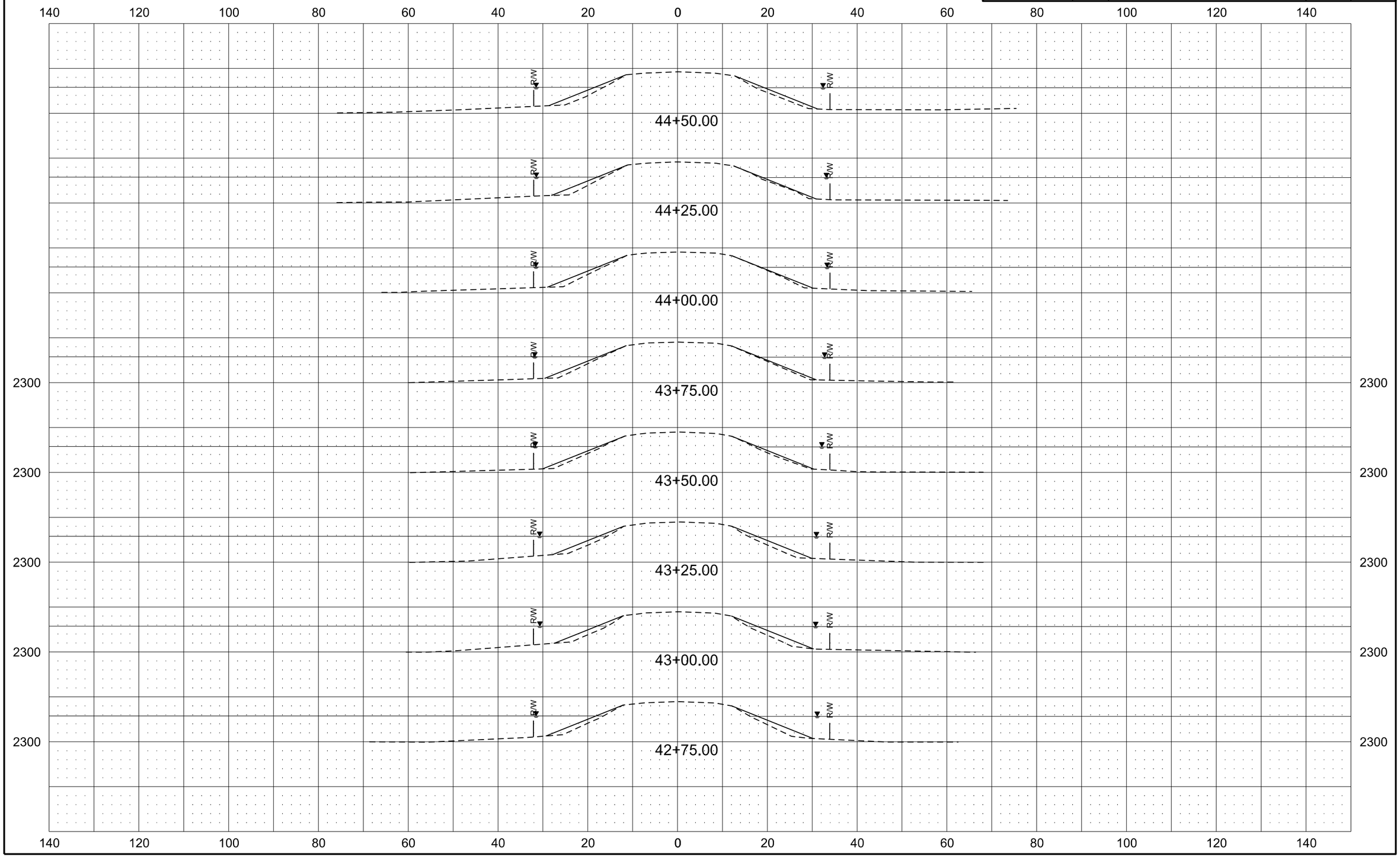
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	69



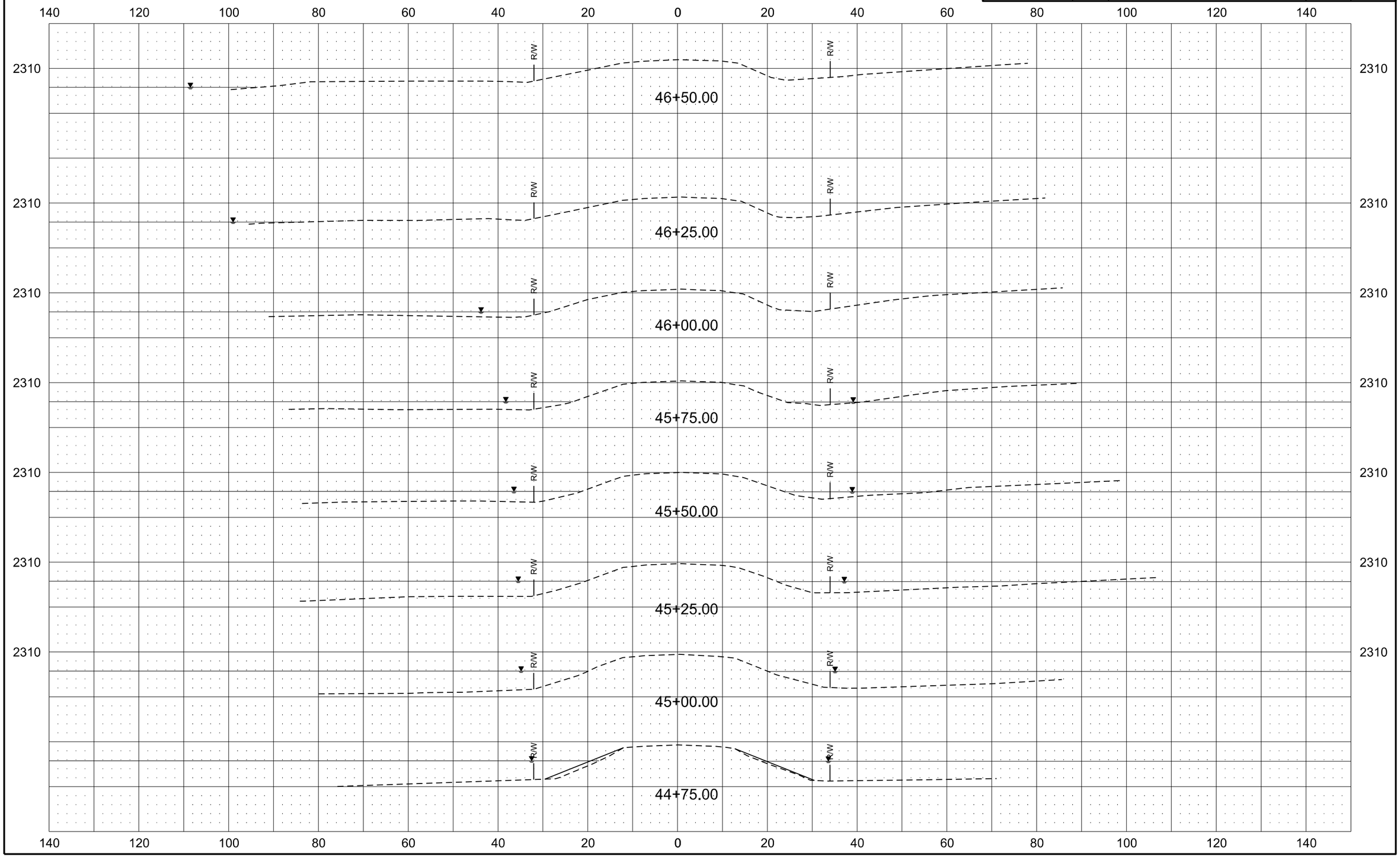
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	70



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	71



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	72

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2310

R/W

123+75.00

123+50.00

47+75.00

47+50.00

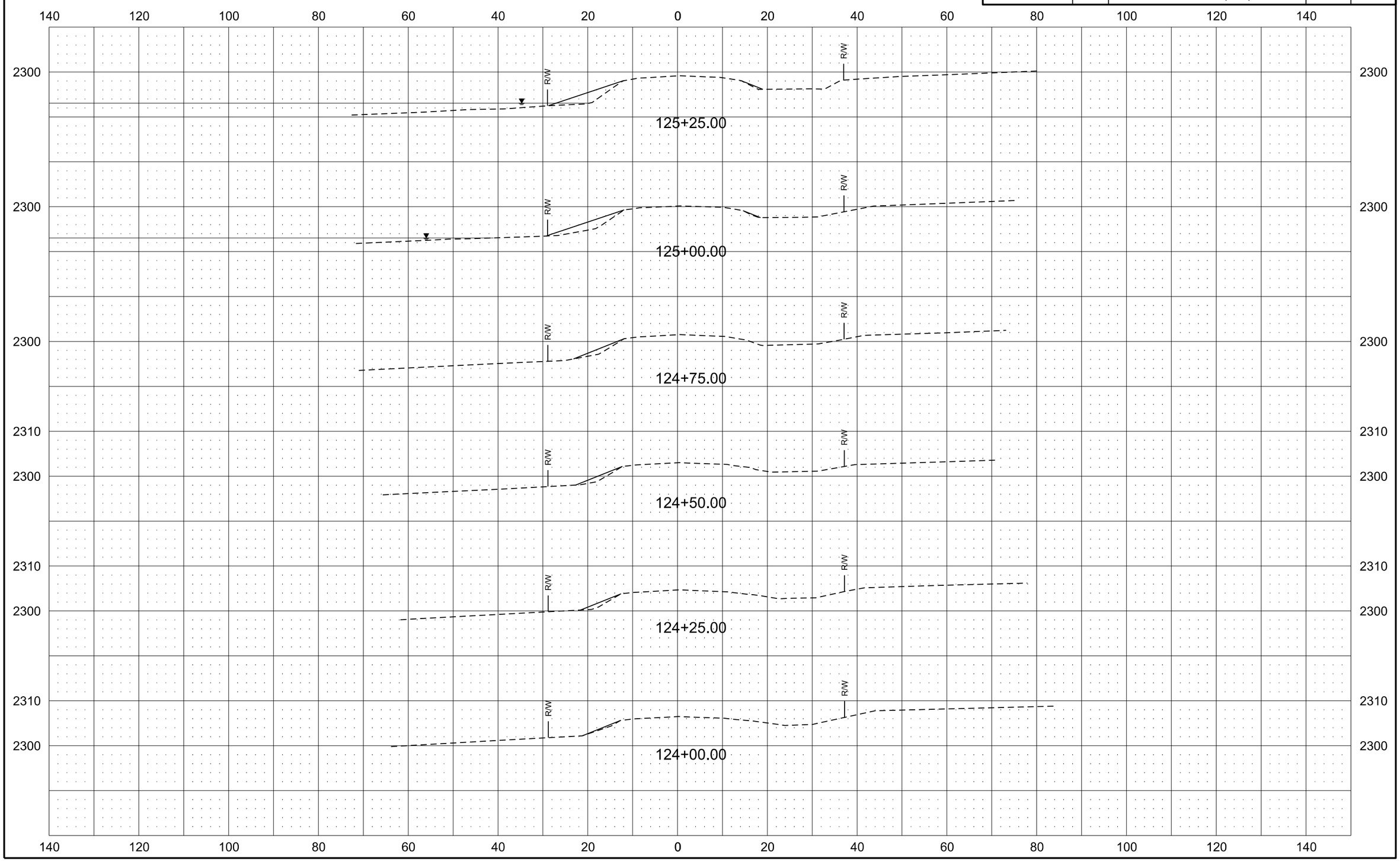
47+25.00

47+00.00

46+75.00

Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	73



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	74

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2300
2290

R/W R/W

126+50.00

126+25.00

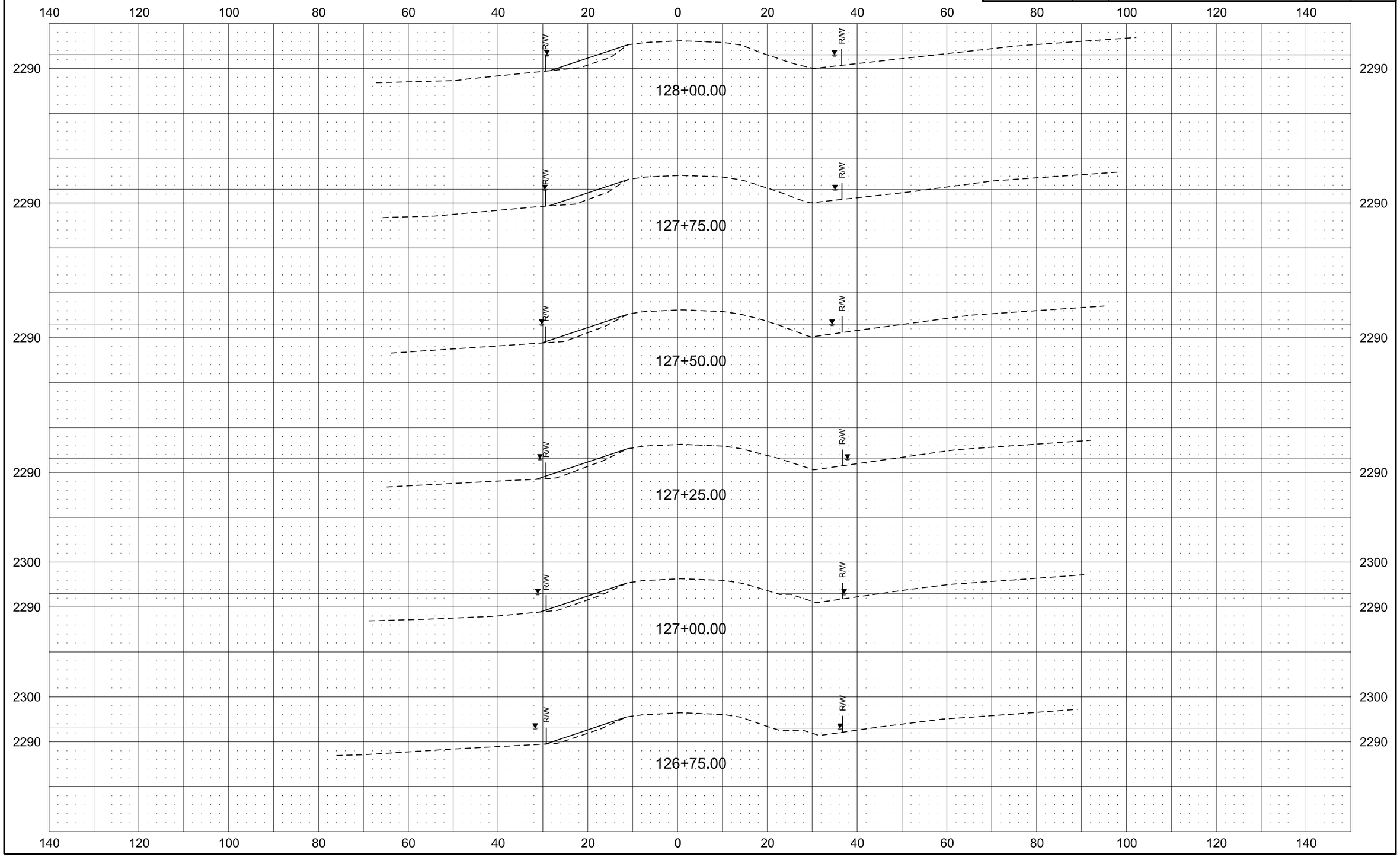
126+00.00

125+75.00

125+50.00

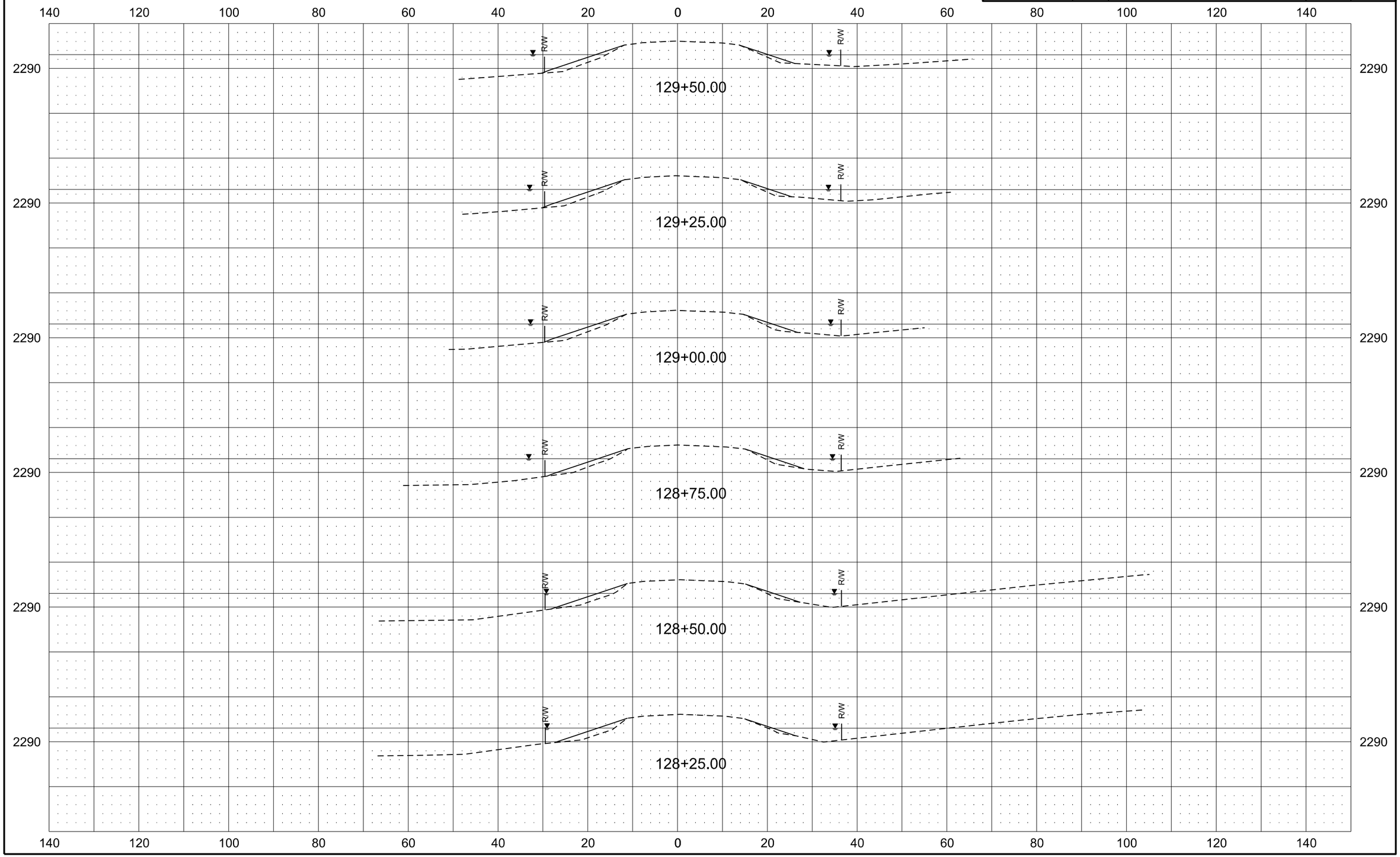
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	75



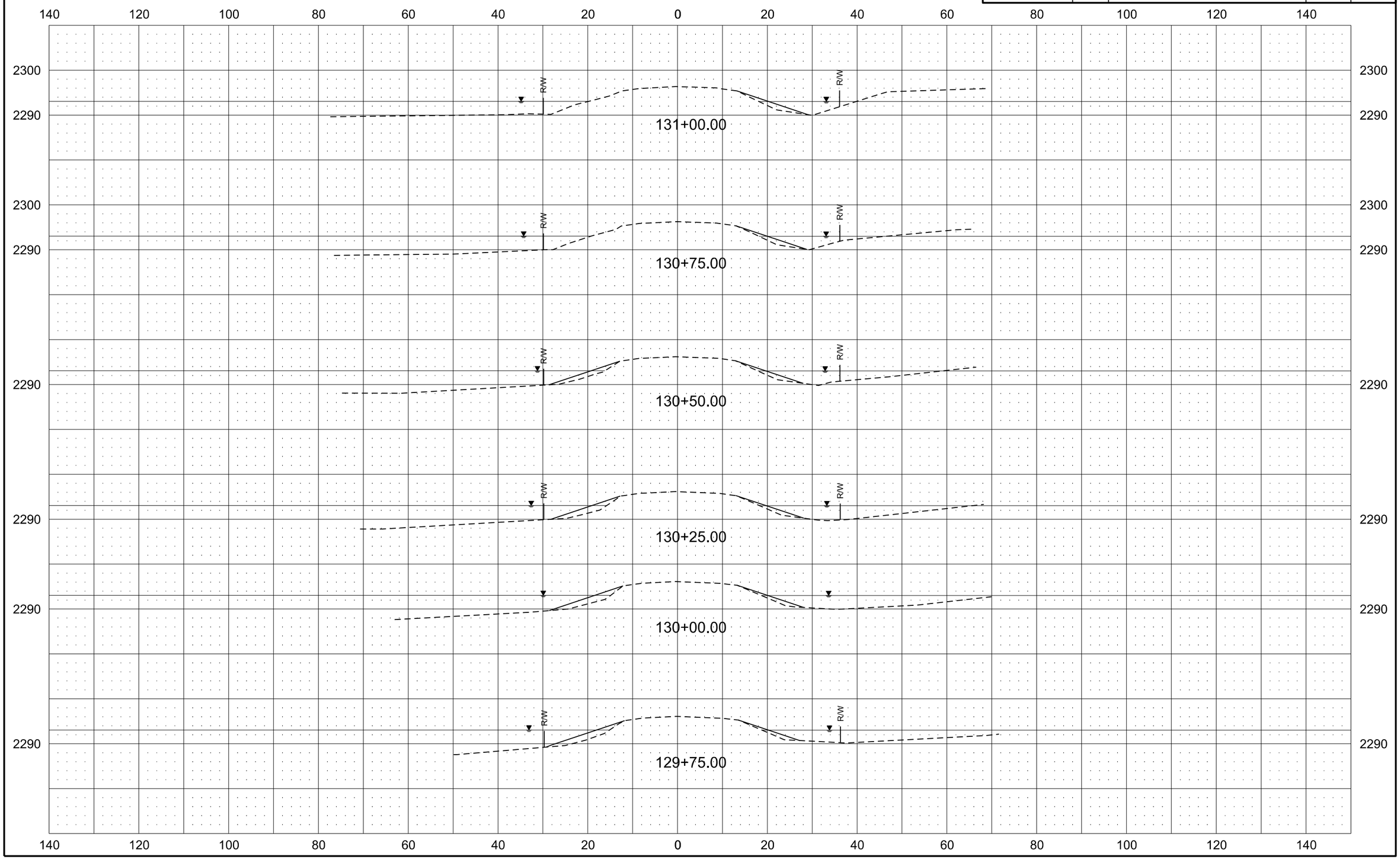
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	76



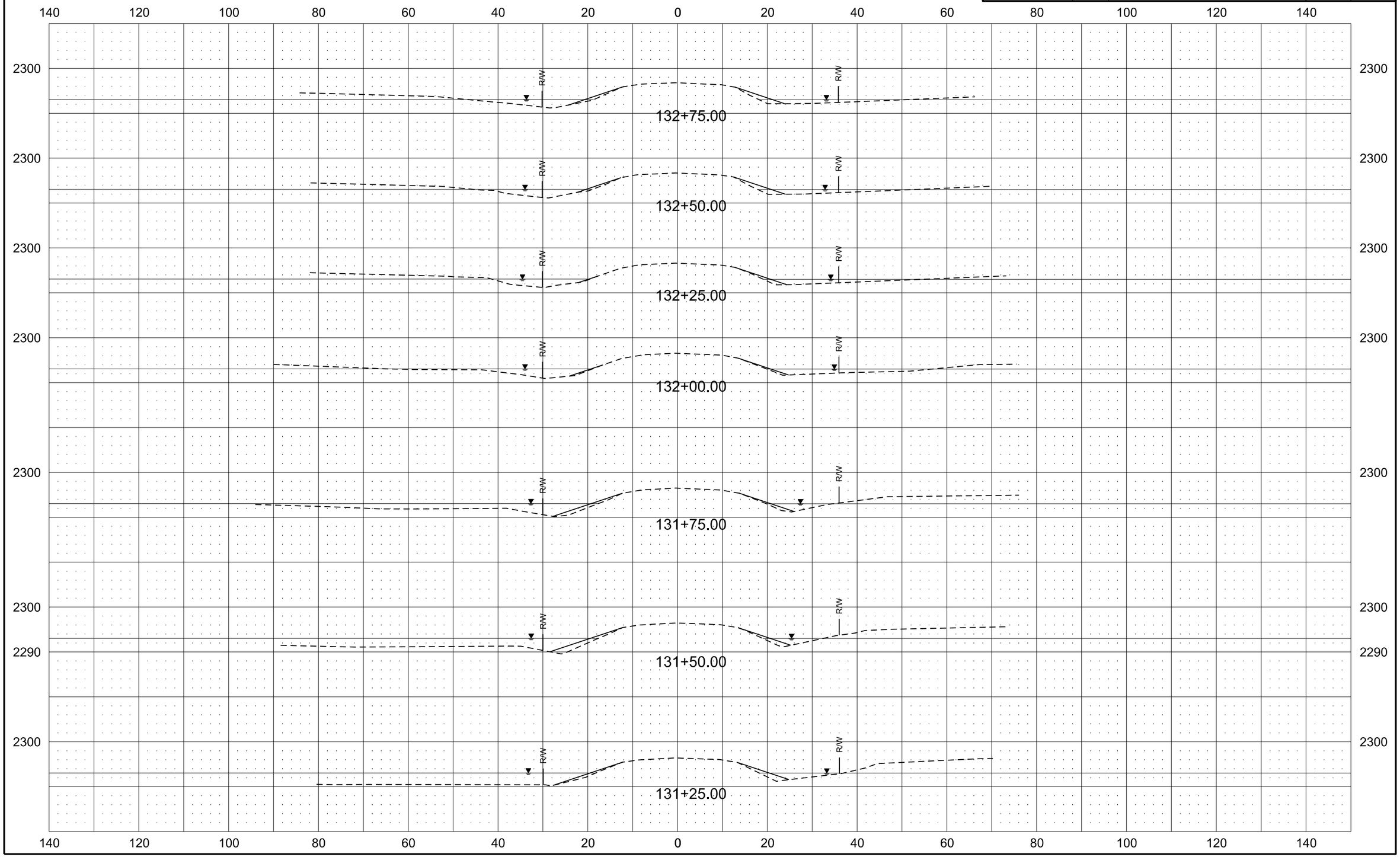
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	77



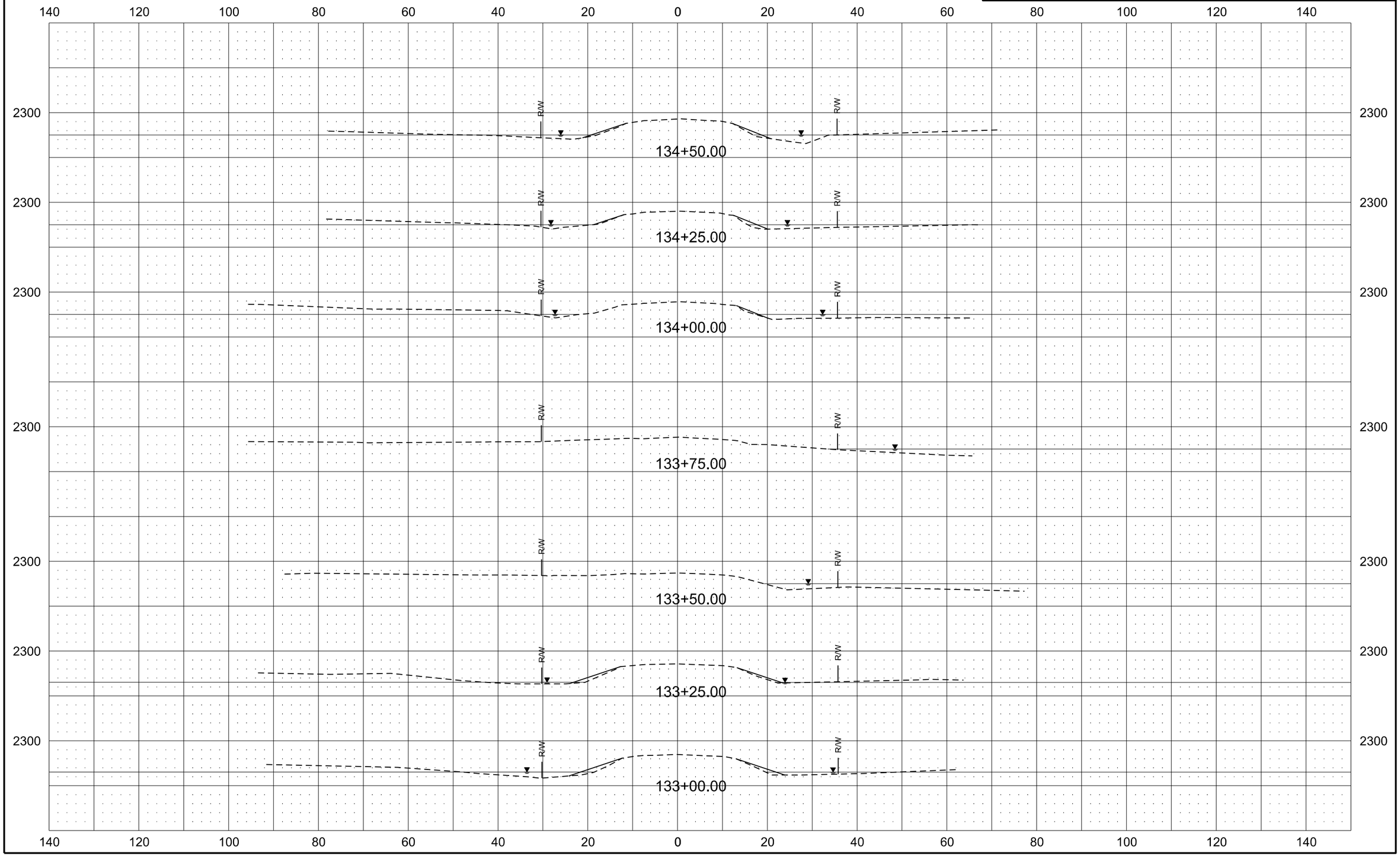
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	78



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	79



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	80

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2310
2300

R/W

136+00.00

135+75.00

135+50.00

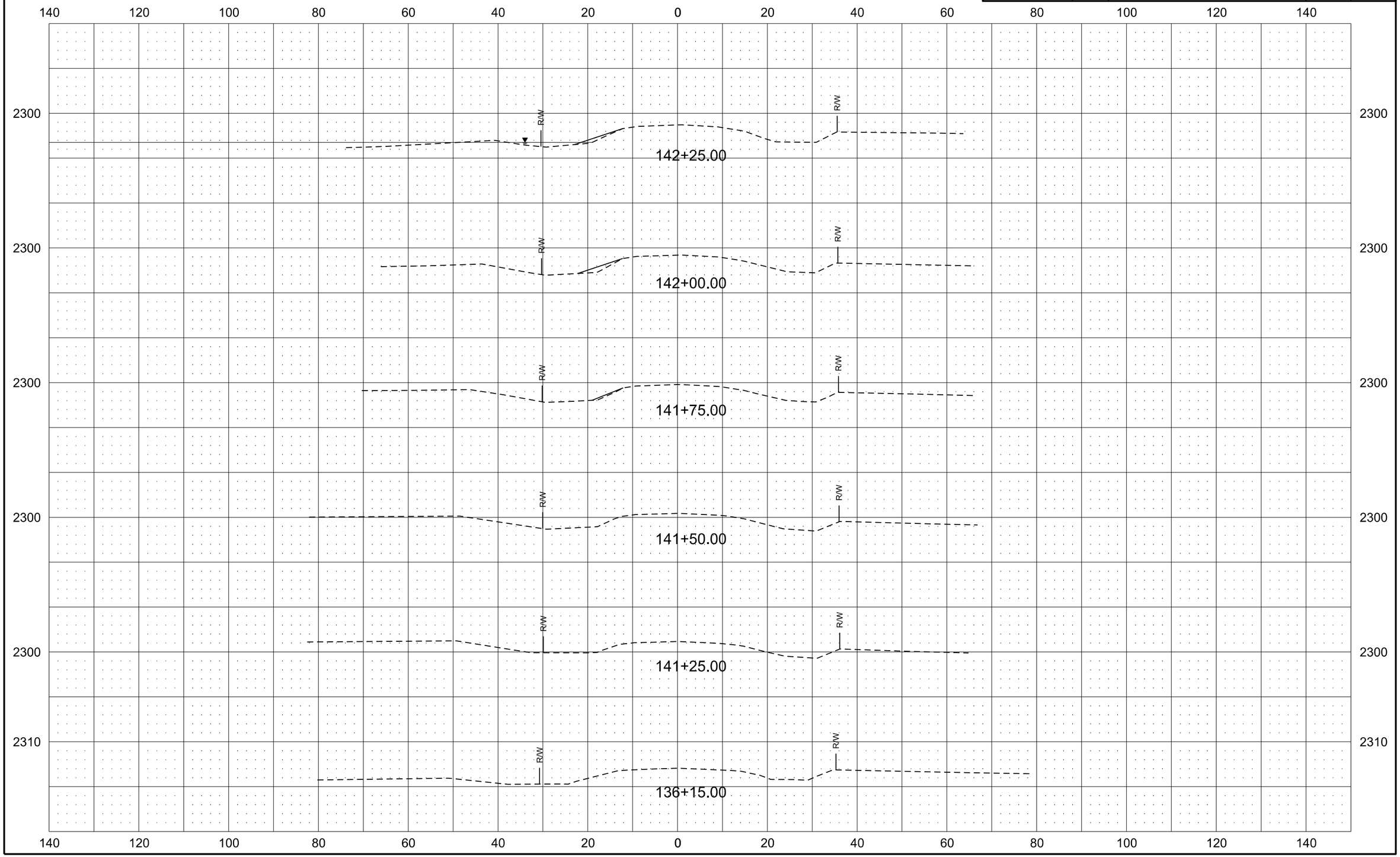
135+25.00

135+00.00

134+75.00

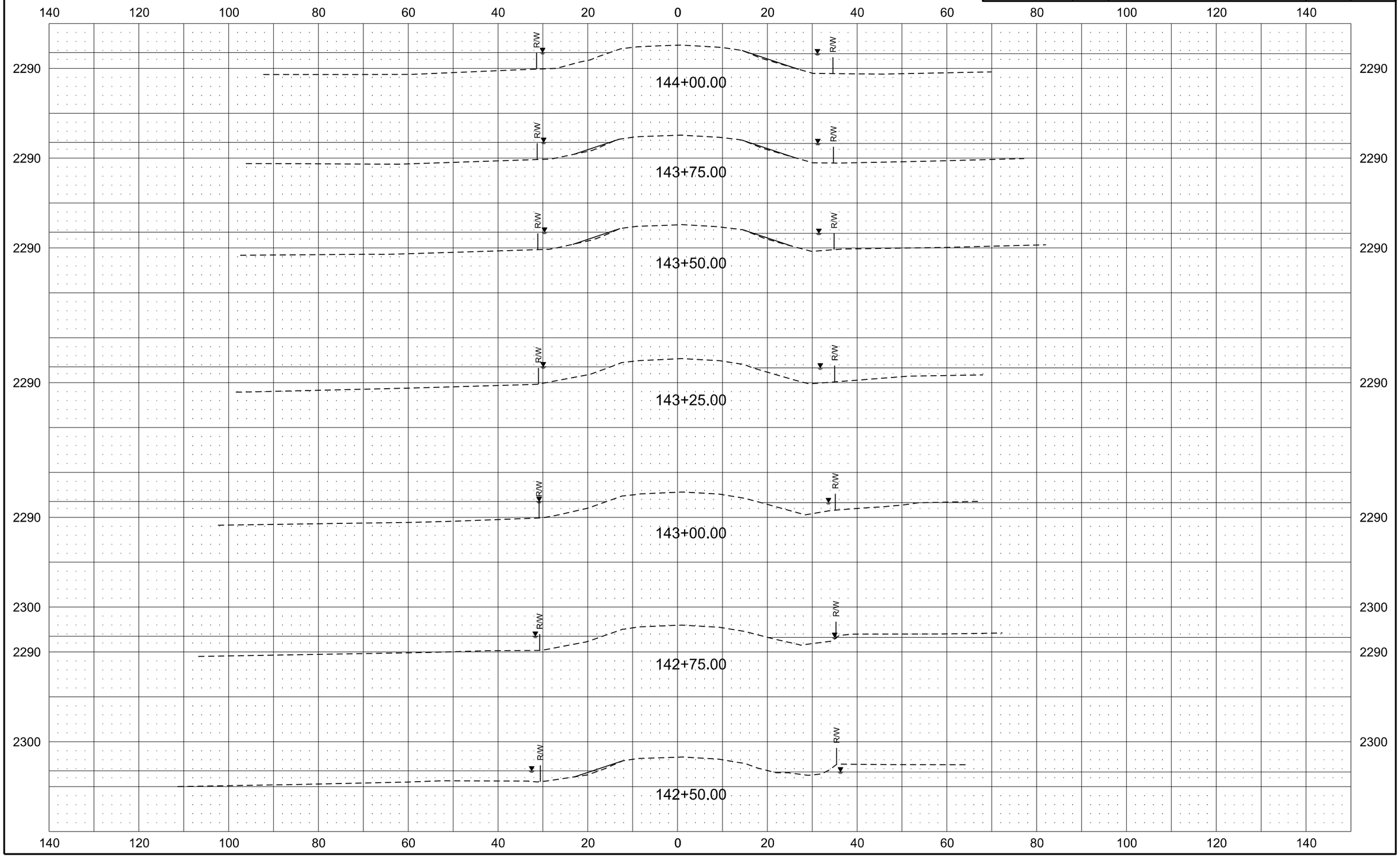
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	81



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	82



Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	83

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2300 2290 2280

R/W

145+75.00

145+50.00

145+25.00

145+00.00

144+75.00

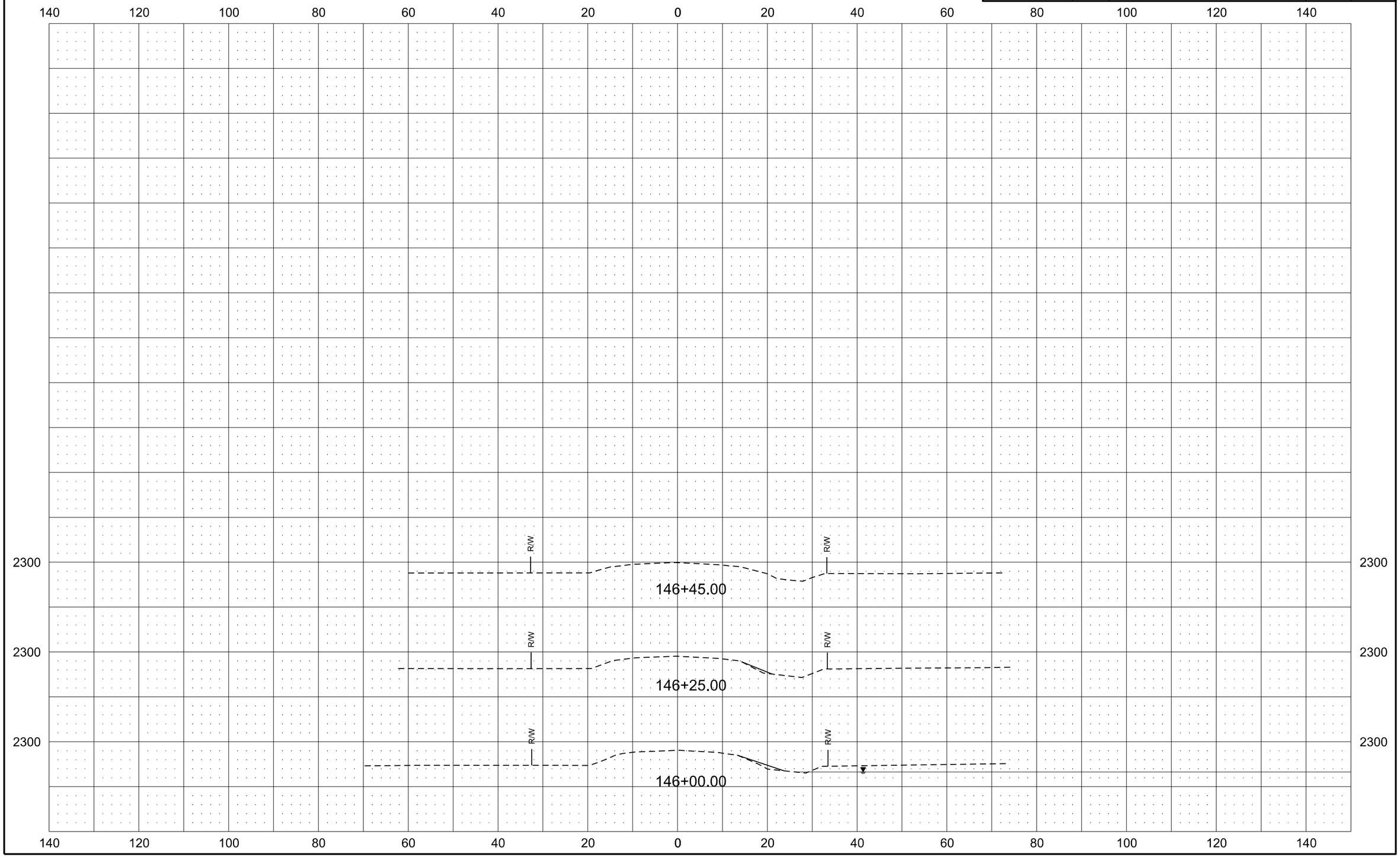
Sta 144+50 - ℄
Install 24" x 36' Pipe Conduit 24in
In 2291.49 @ 18' Lt
Out 2291.30 @ 18' Rt

144+50.00

144+25.00

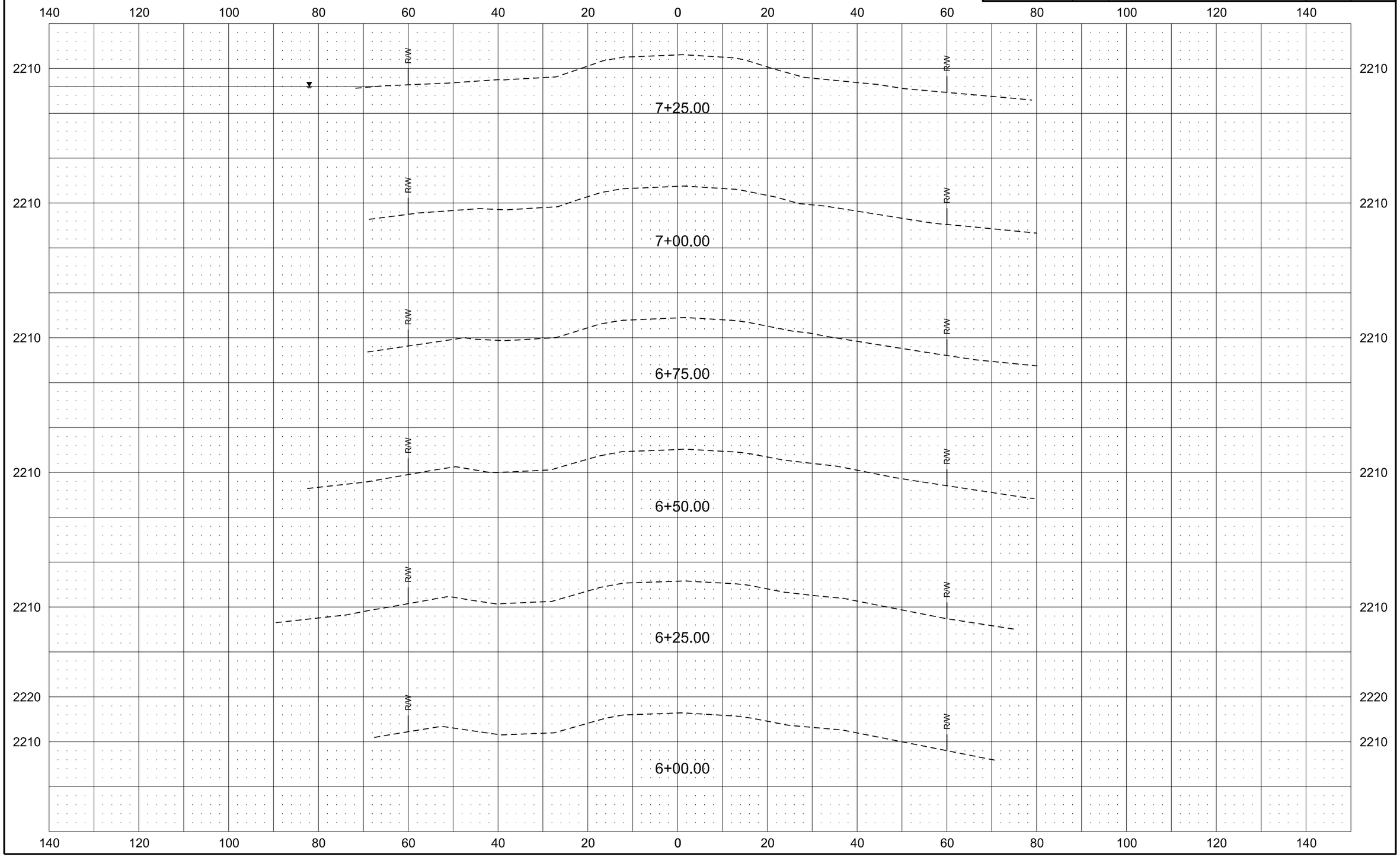
Alignment K-6N

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	84



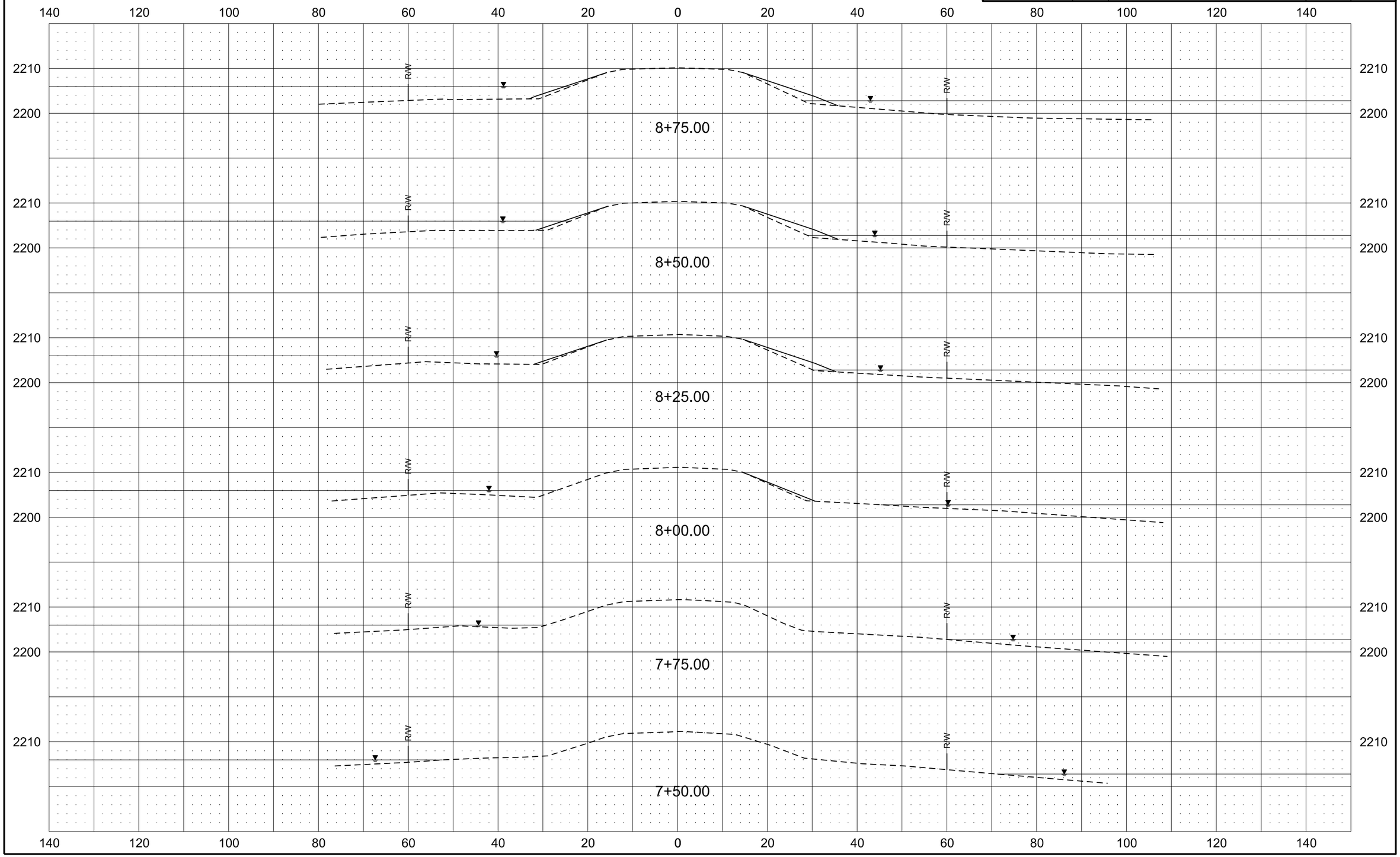
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	85



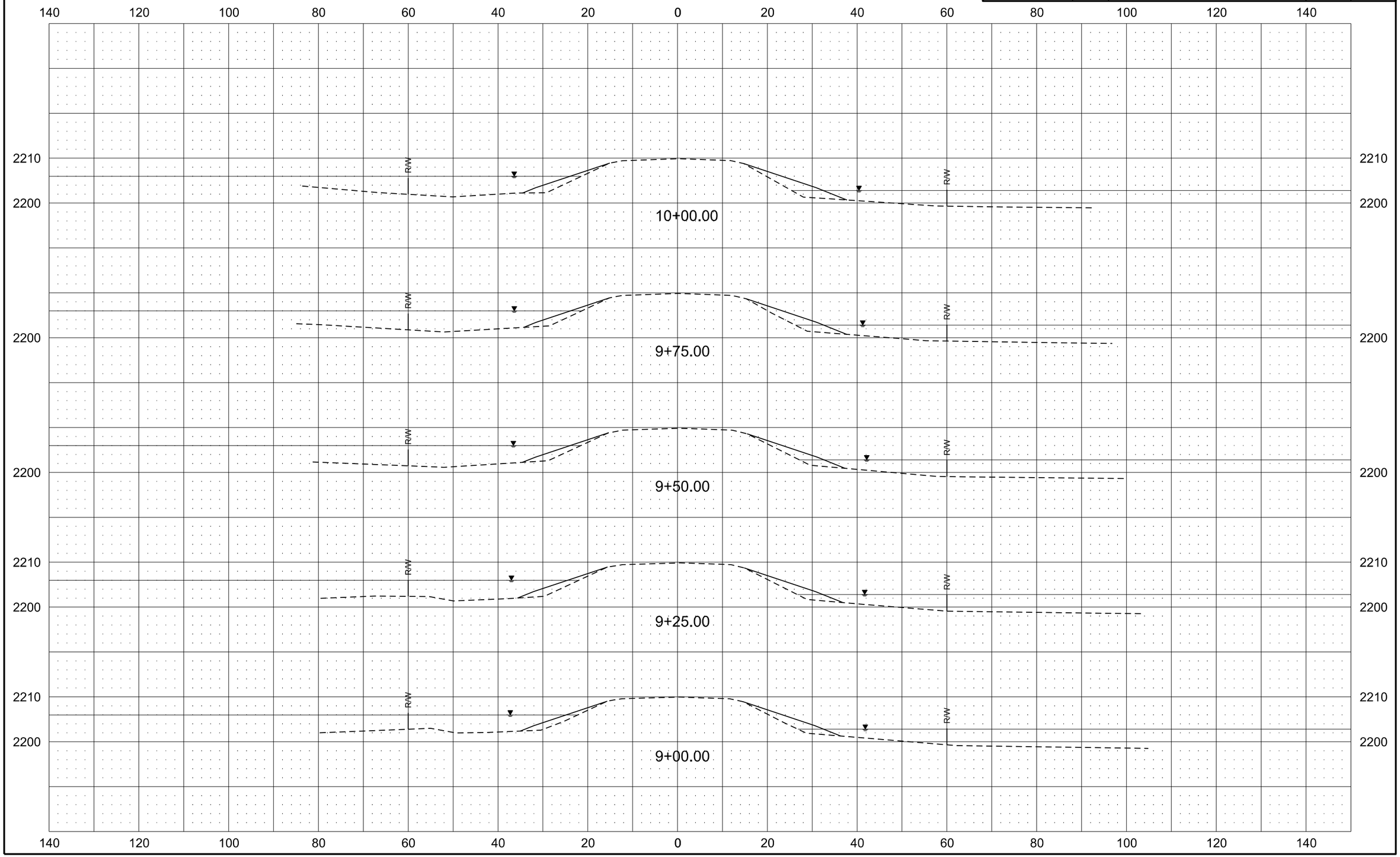
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	86



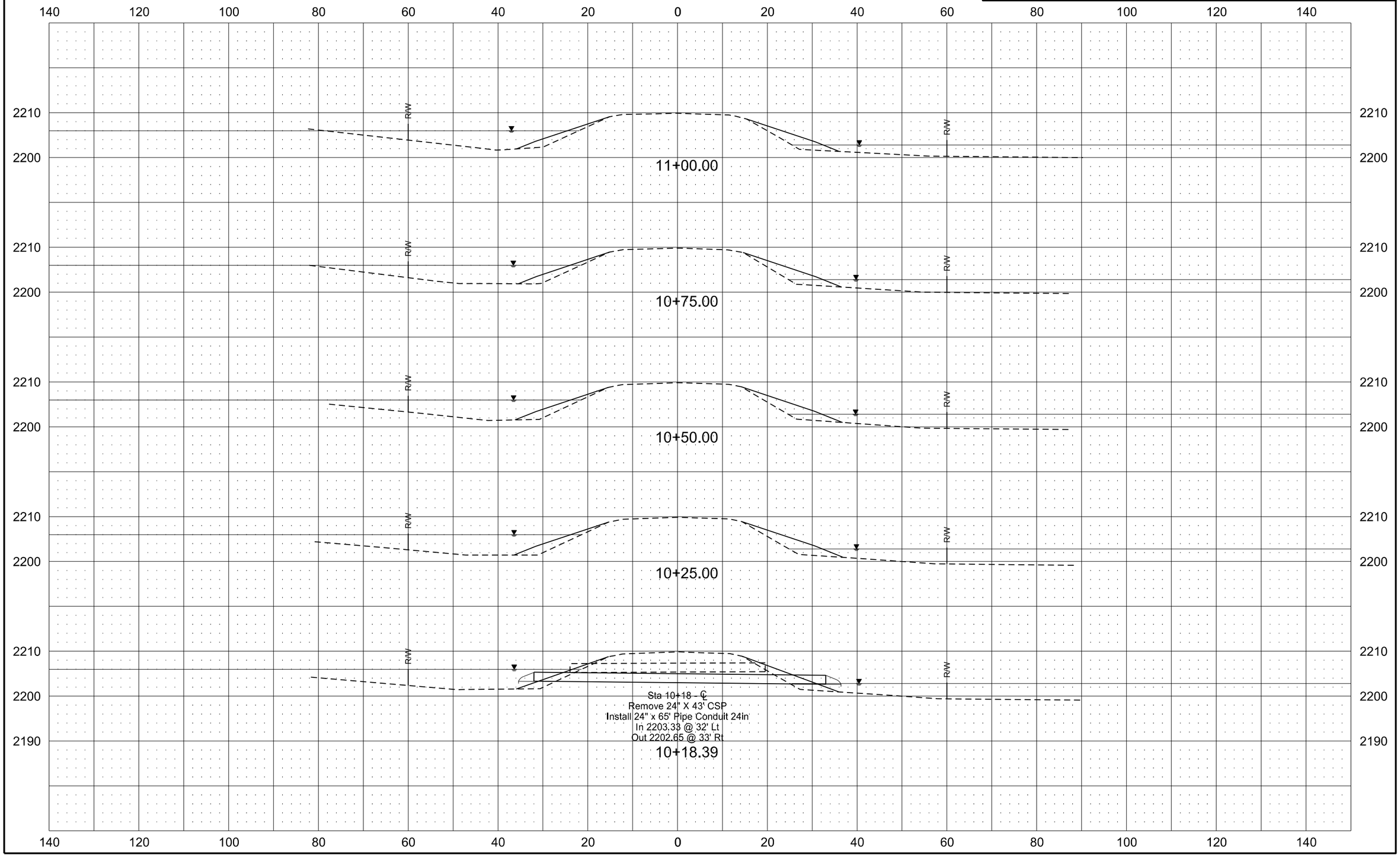
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	87



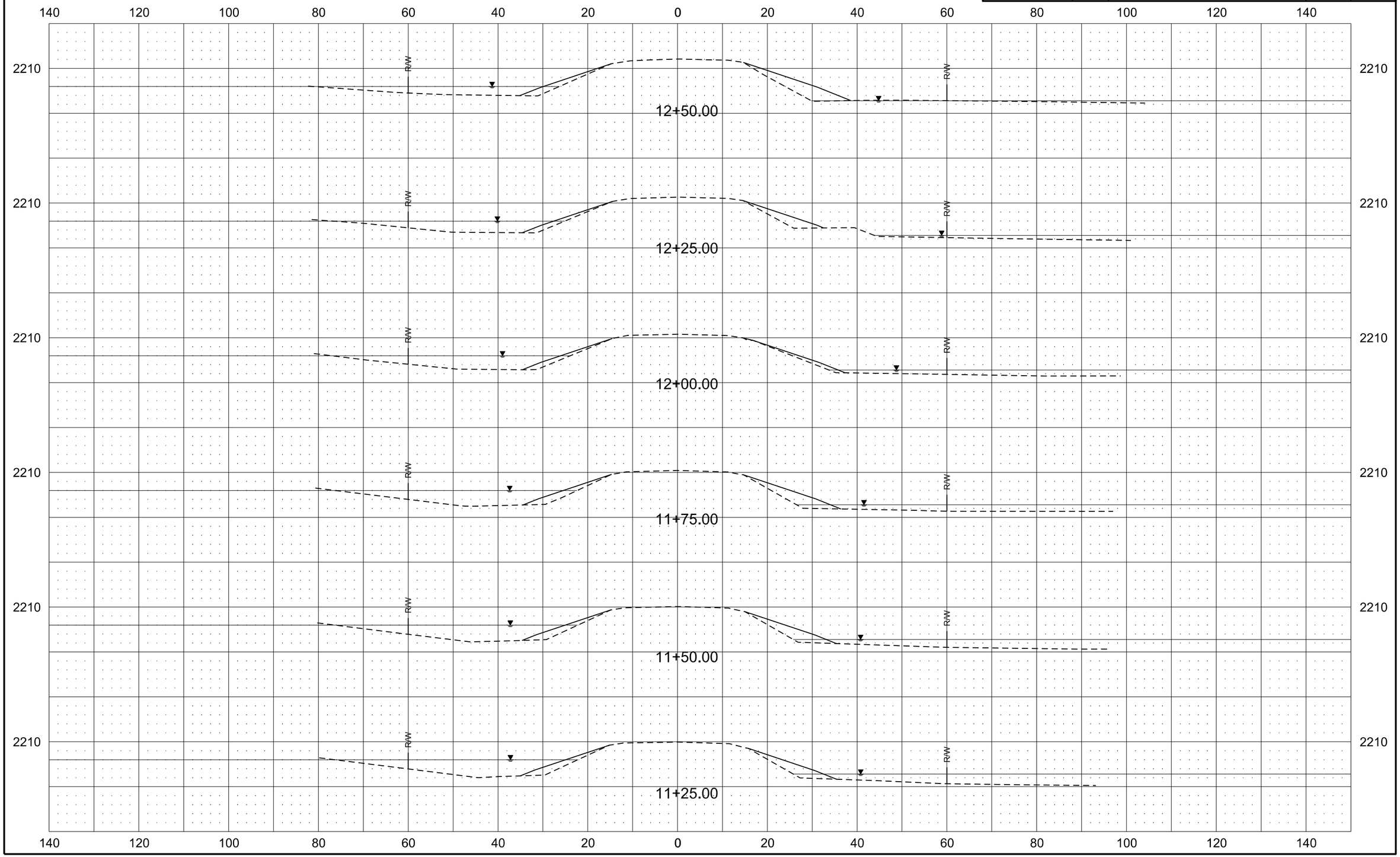
Alignment K-7

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	88



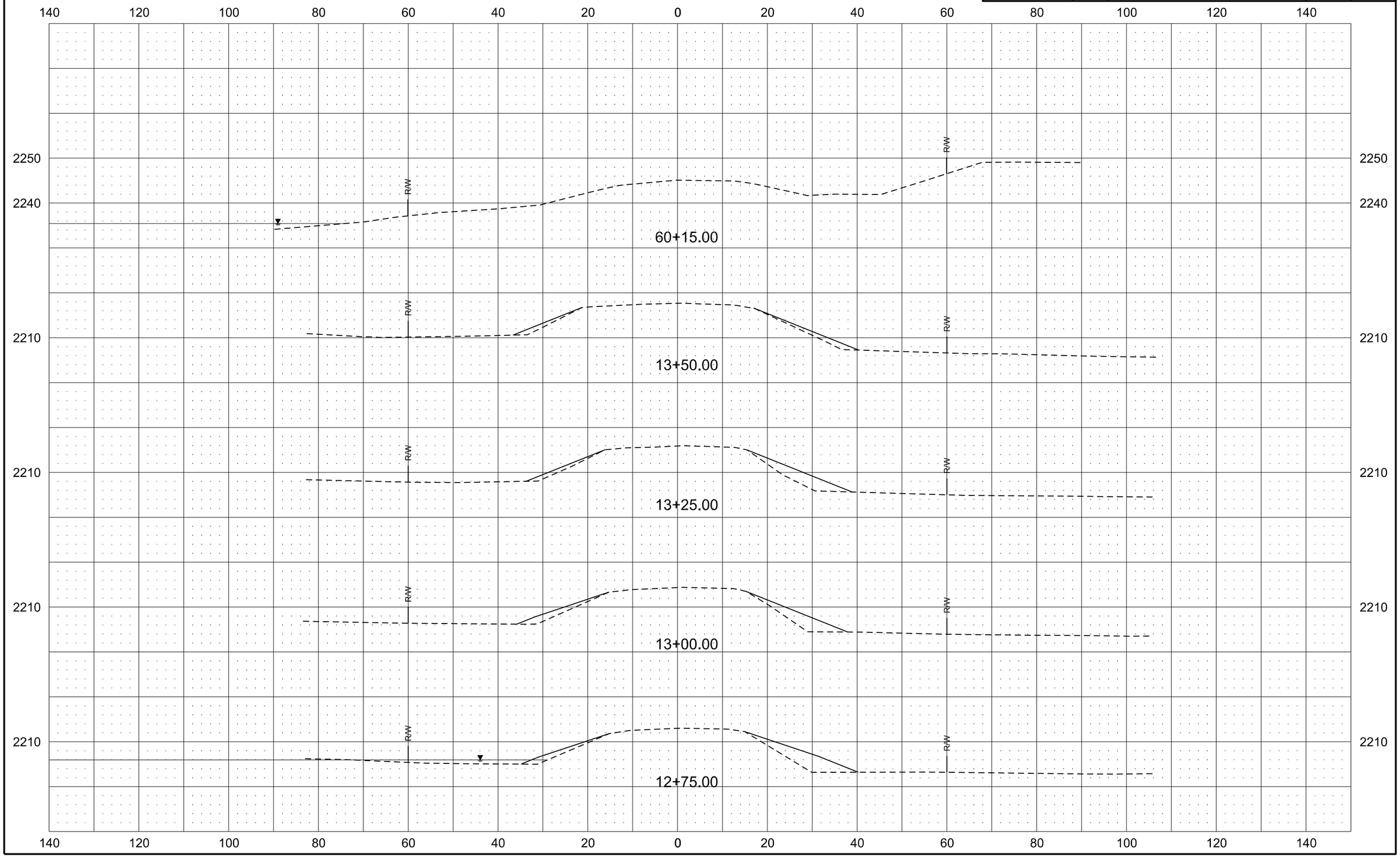
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	89



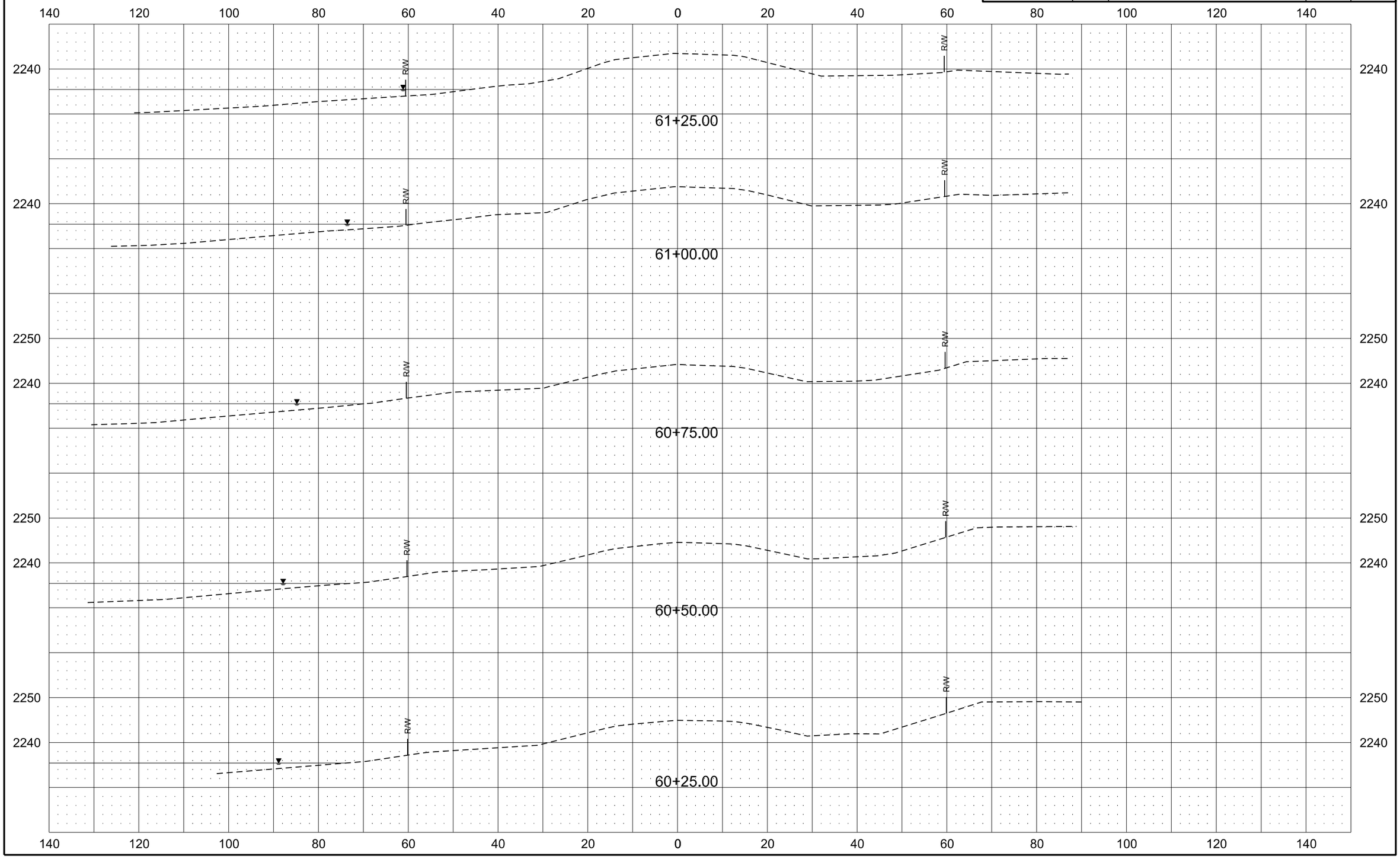
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	90



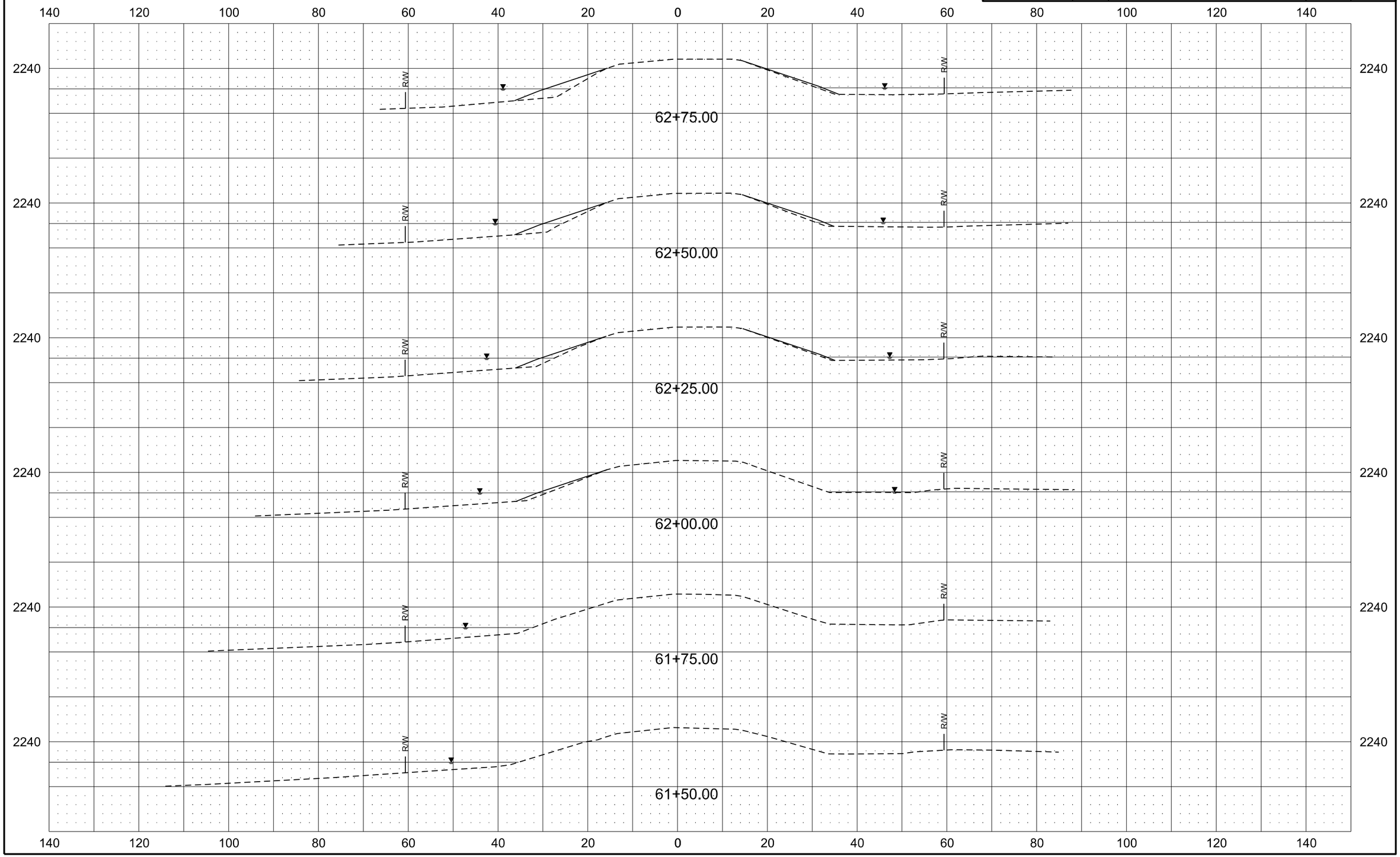
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	91



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	92



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	93

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2240

RW

63+75.00

63+50.00

Sta 63+31- ℄
Remove 18" X 51" CSP
Install 30" x 62' Pipe Conduit 30in
In 2235.24 @ 29' Lt
Out 2235.01 @ 33' Rt

2230

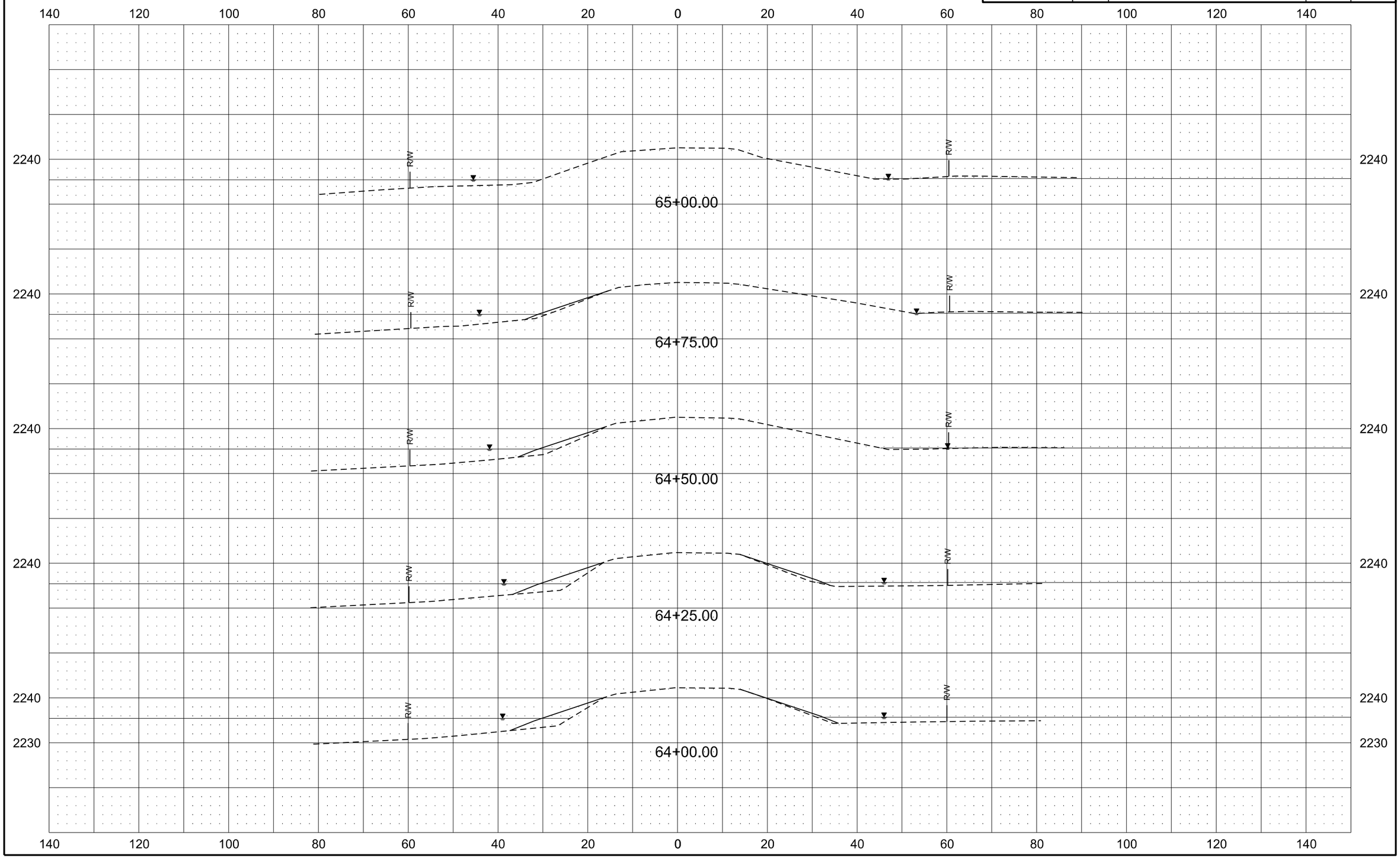
63+31.17

63+25.00

63+00.00

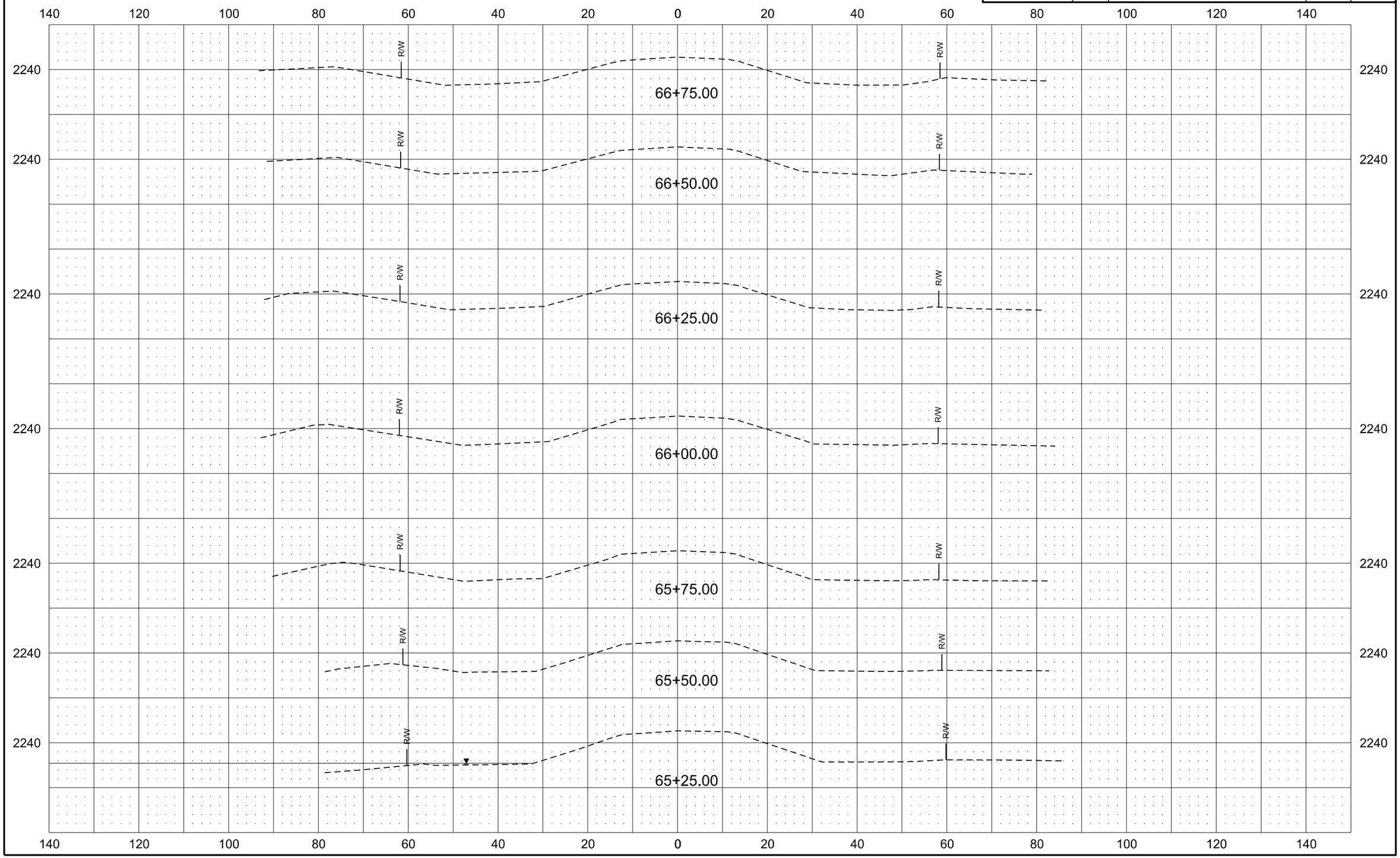
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	94



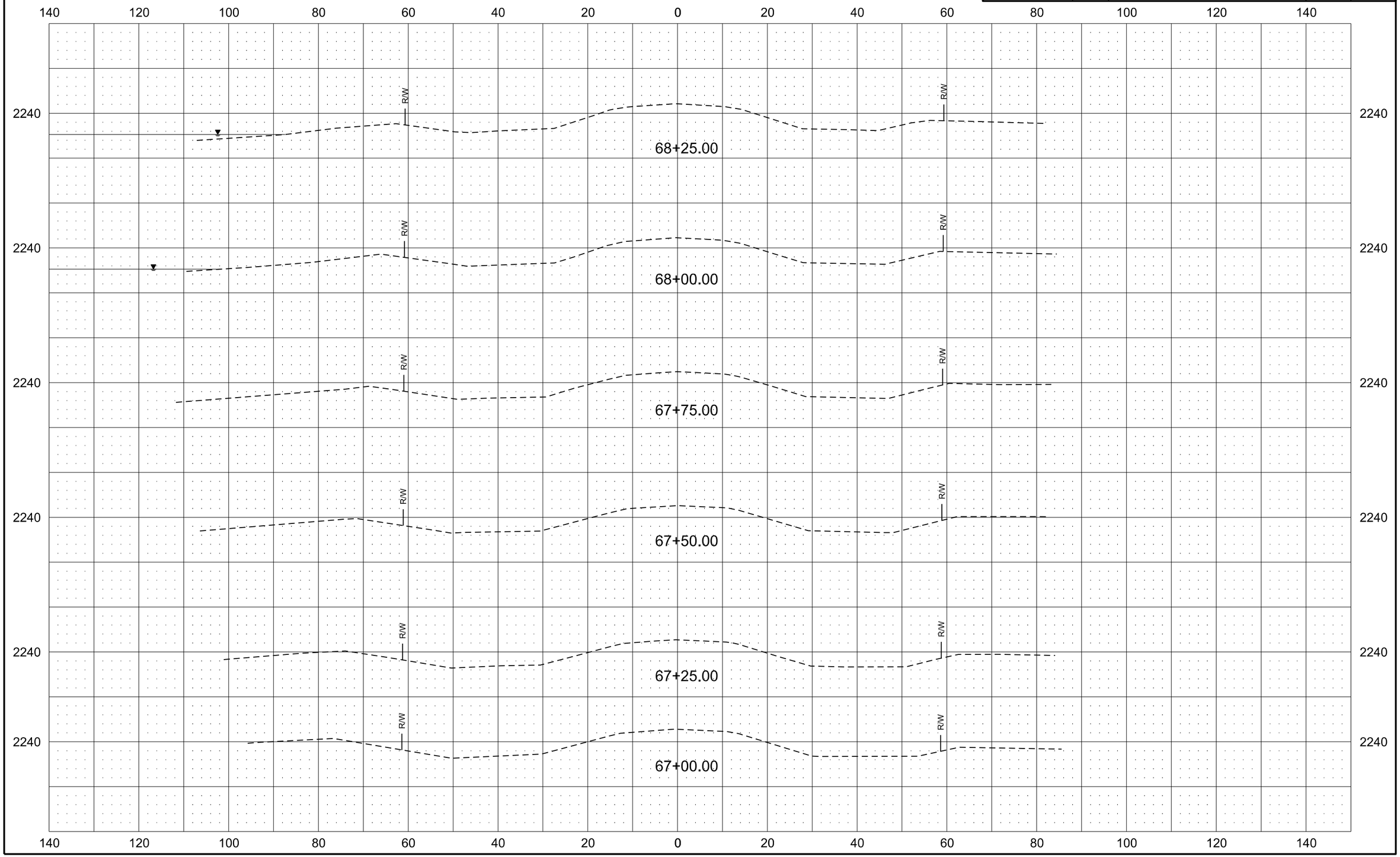
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	95



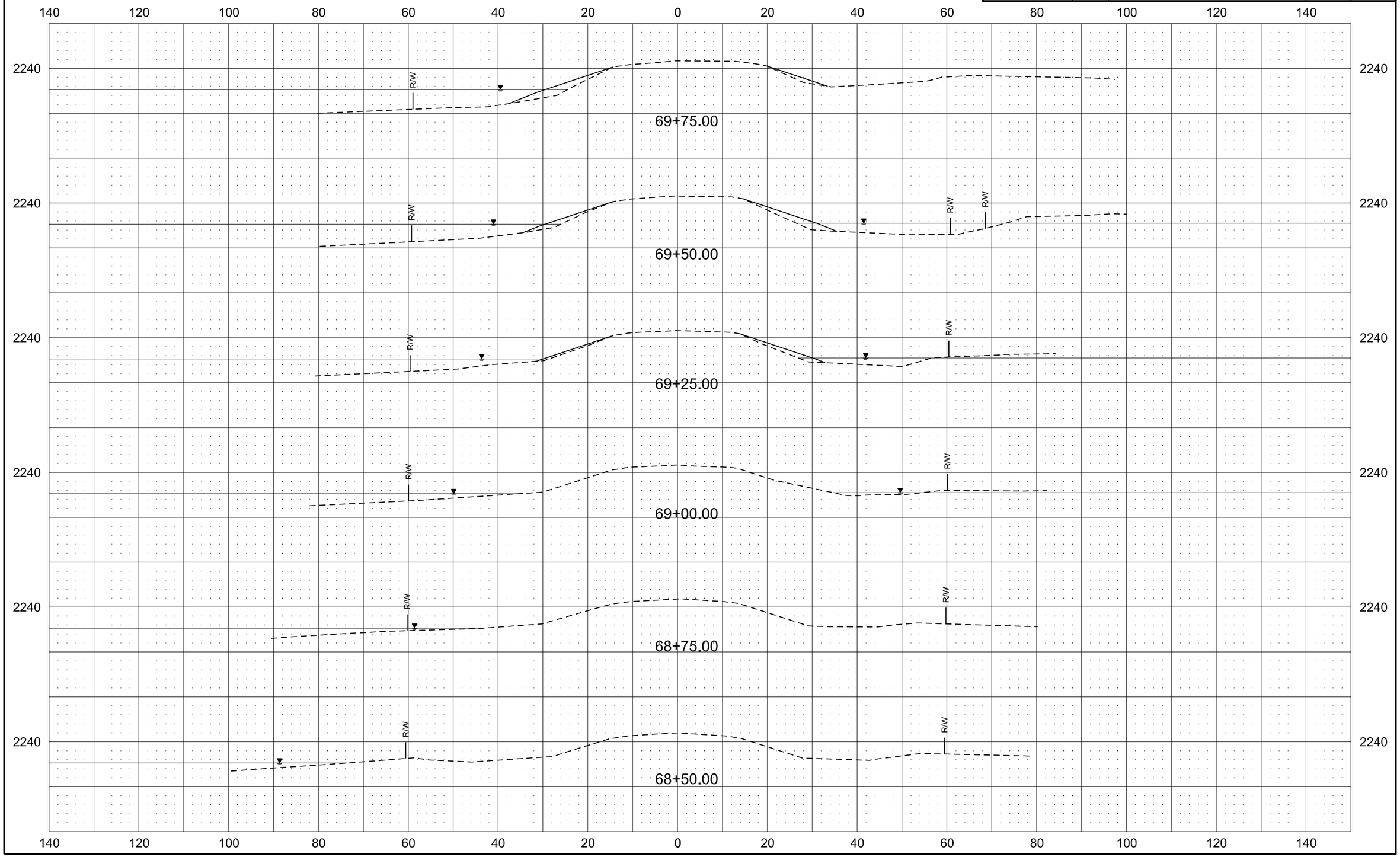
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	96



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	97



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	98

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

71+25.00

2240 2240

R/W R/W

71+00.00

2240 2240

R/W R/W

70+75.00

2240 2230 2240 2230

R/W R/W

70+50.00

2240 2230 2240 2230

R/W R/W

70+25.00

2240 2240

R/W R/W

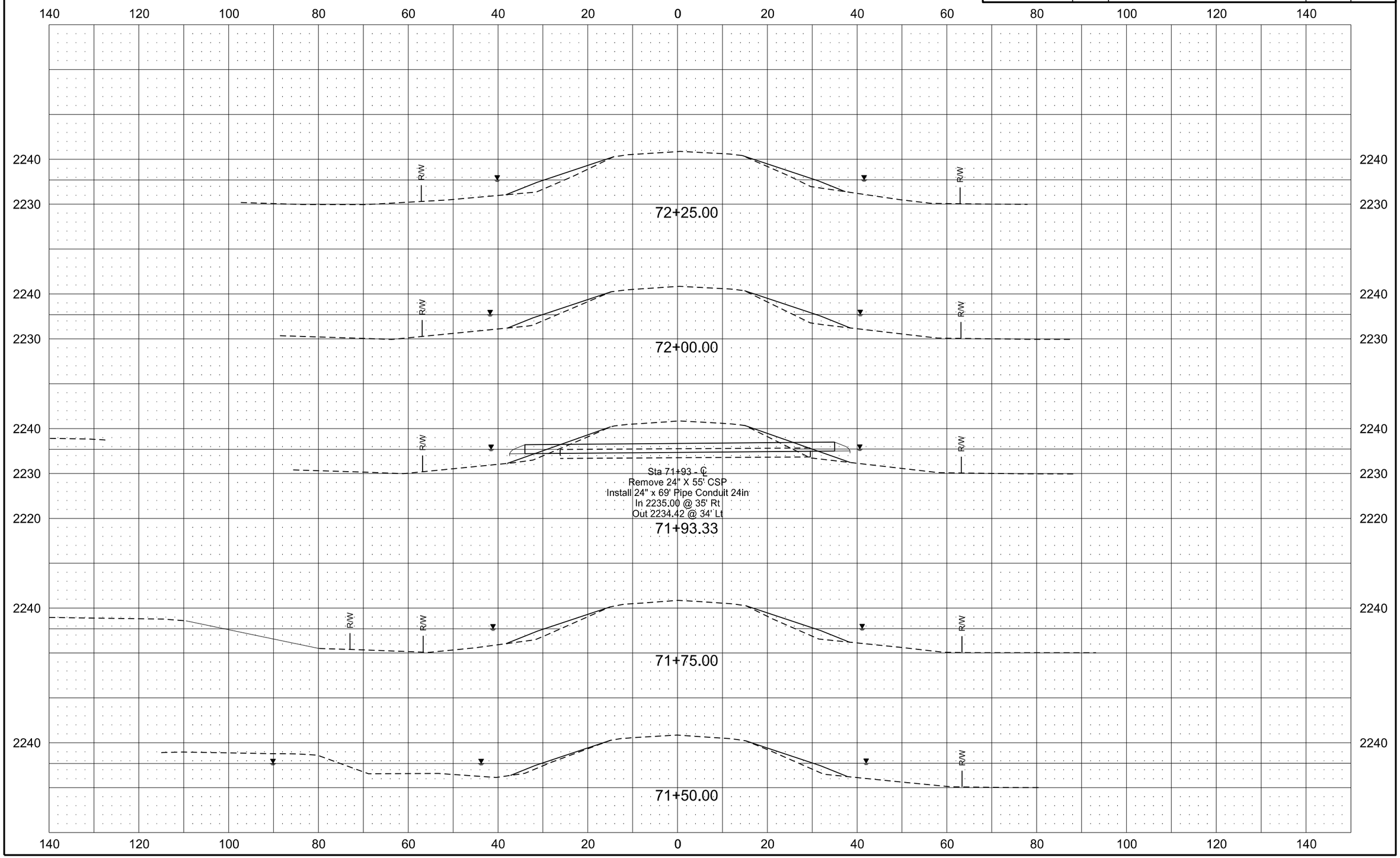
70+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

10/29/2017 7:47:58 PM cschatz N:\20732\ROM-0300(135)\Design\Mountrail\200_Xsec\200_Xsec_Sheets.dgn

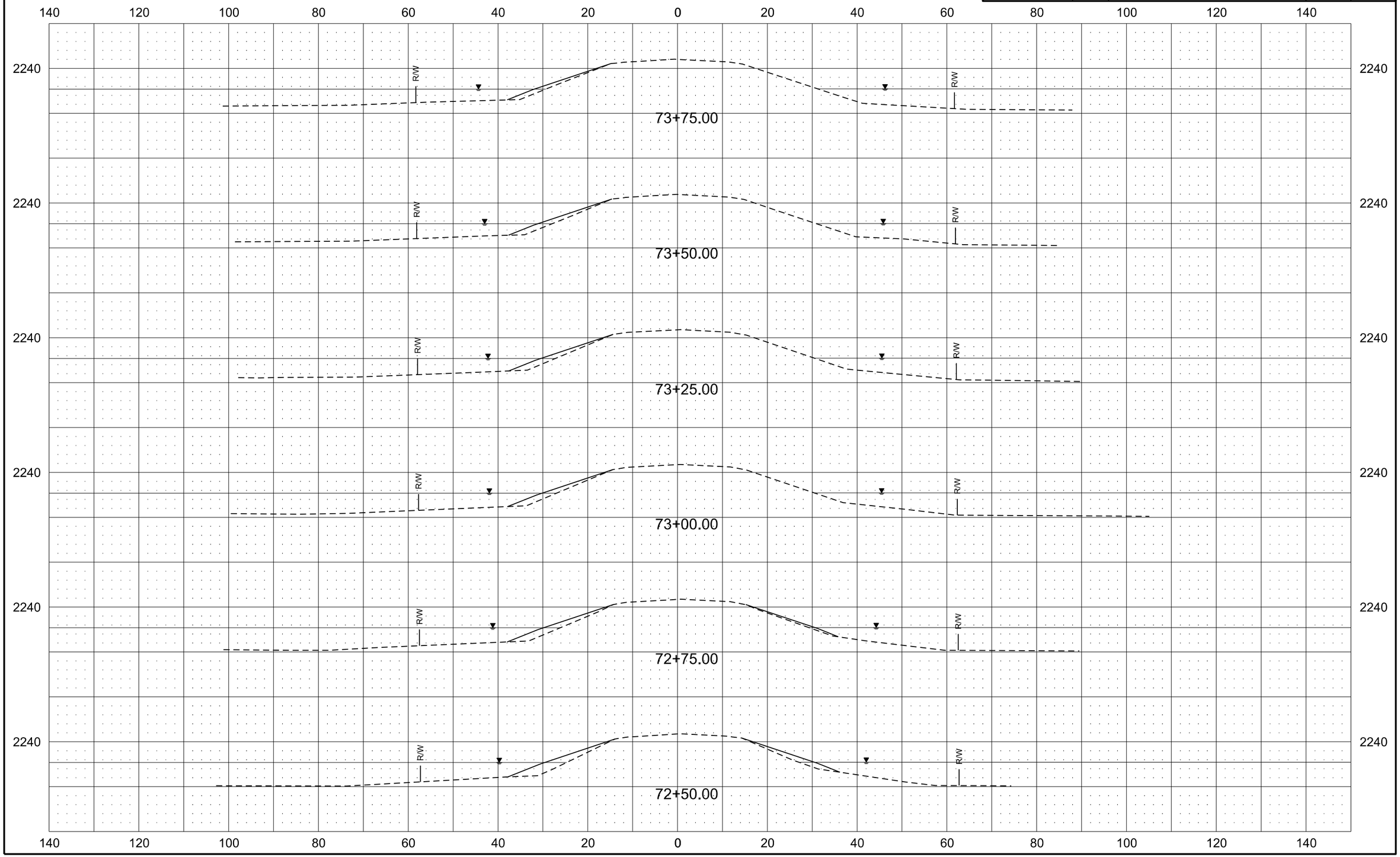
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	99



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	100



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	101

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2240

R/W

75+25.00

75+00.00

74+75.00

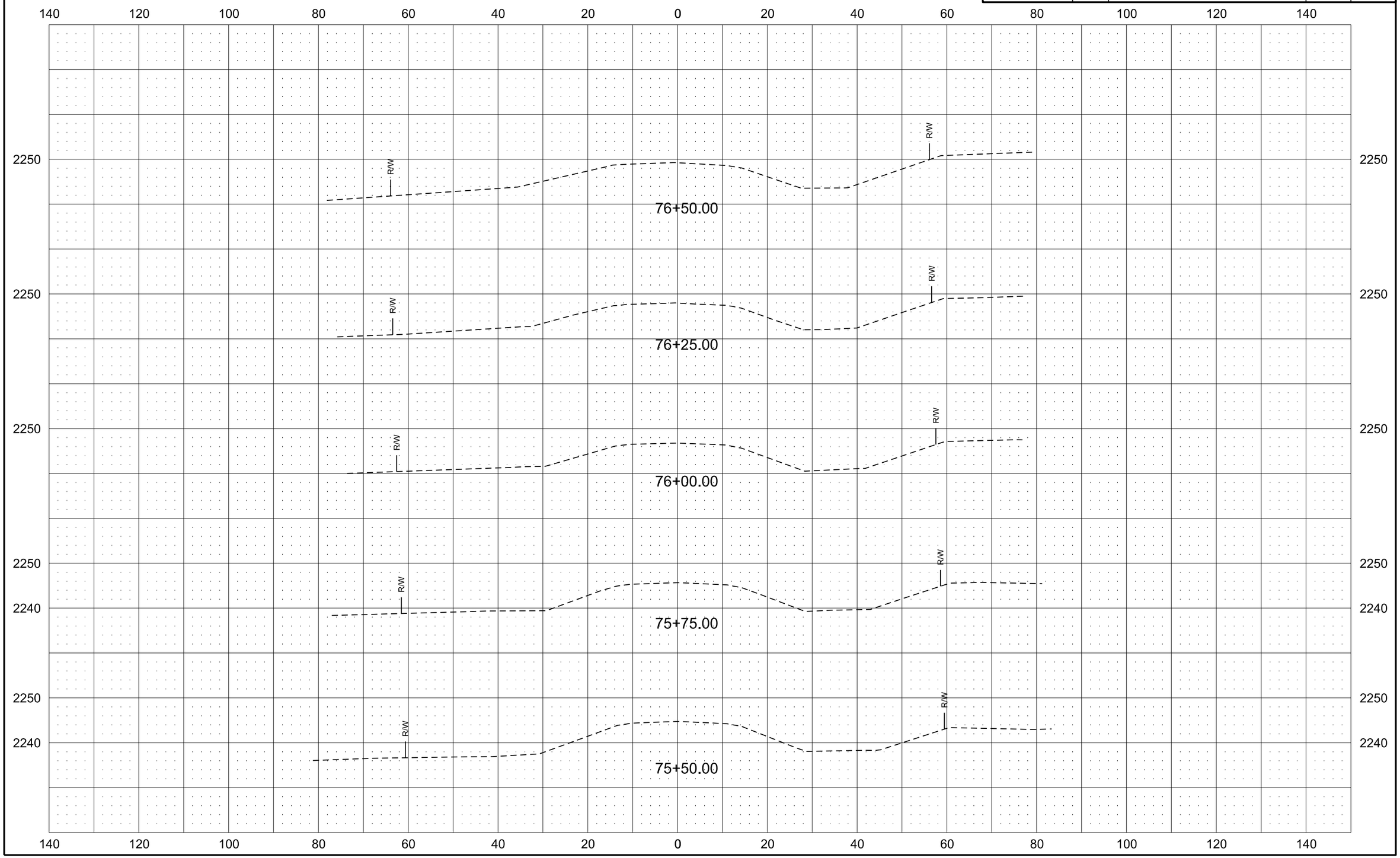
74+50.00

74+25.00

74+00.00

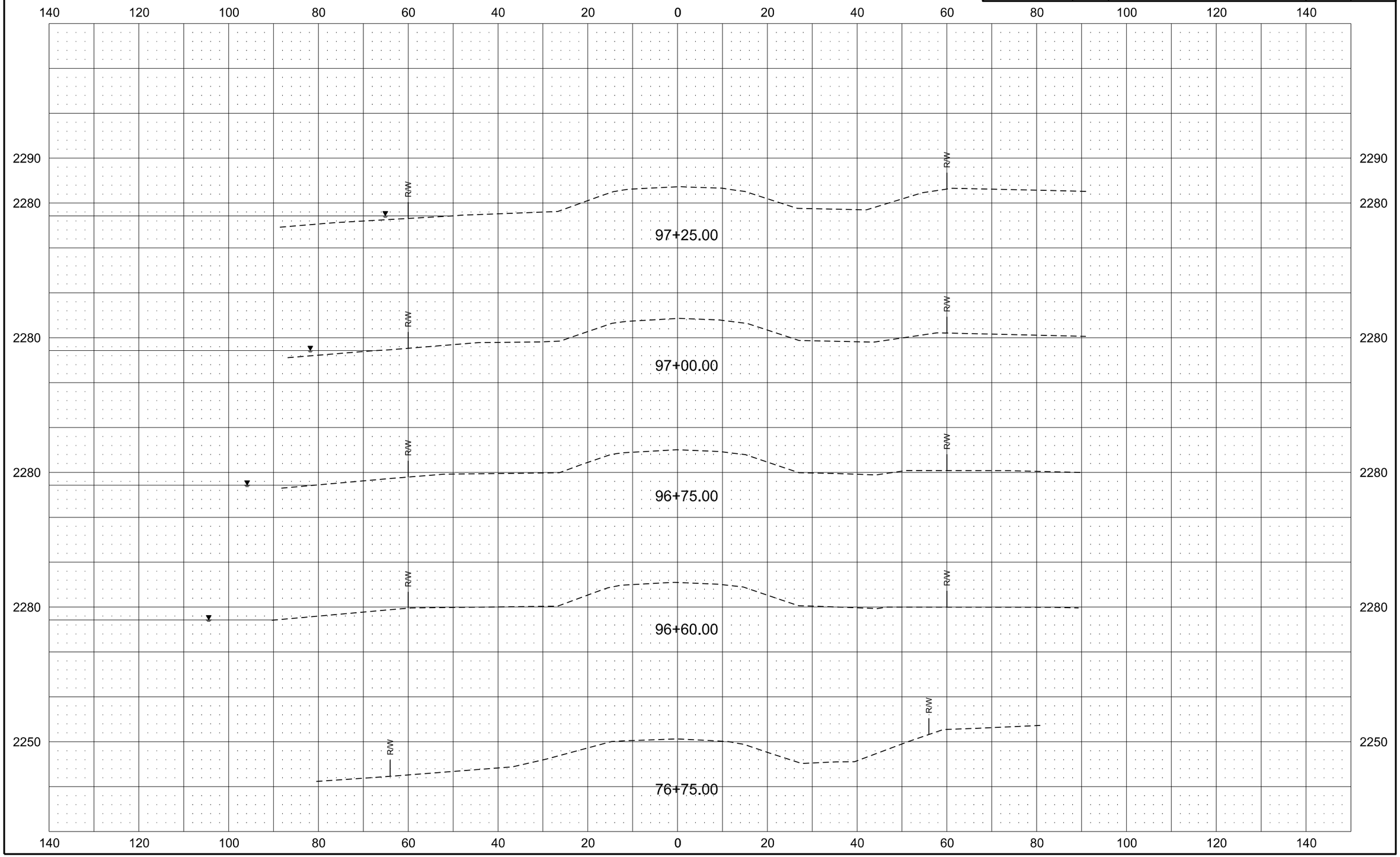
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	102



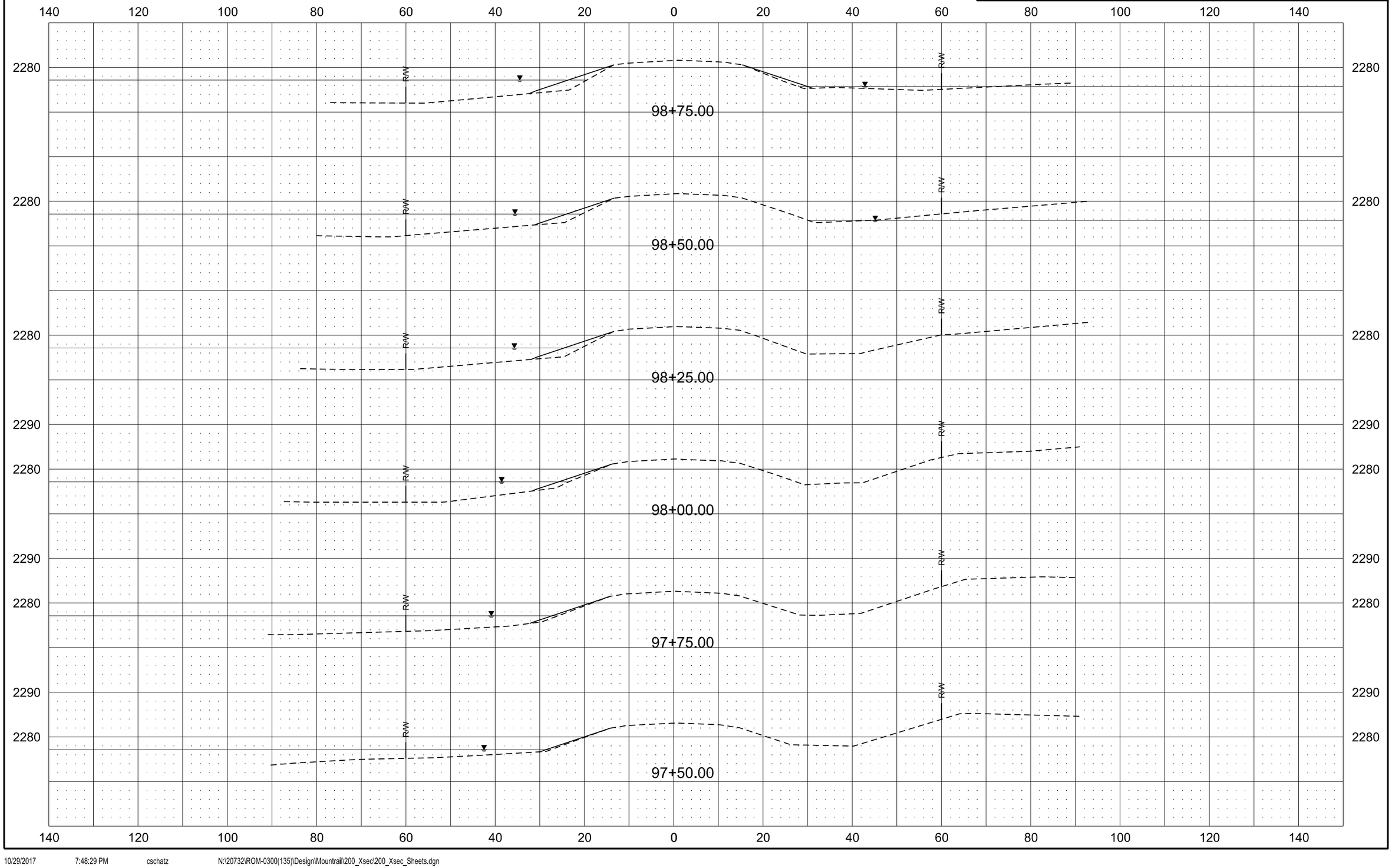
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	103



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	104



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	105

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2280 2270

RW

100+00.00

99+75.00

99+50.00

Sta 99+27 - ℄
Remove 18" X 42' CSP
Install 18" x 64' Pipe Conduit 18in
In 2275.24 @ 32' Rt
Out 2275.00 @ 32' Lt

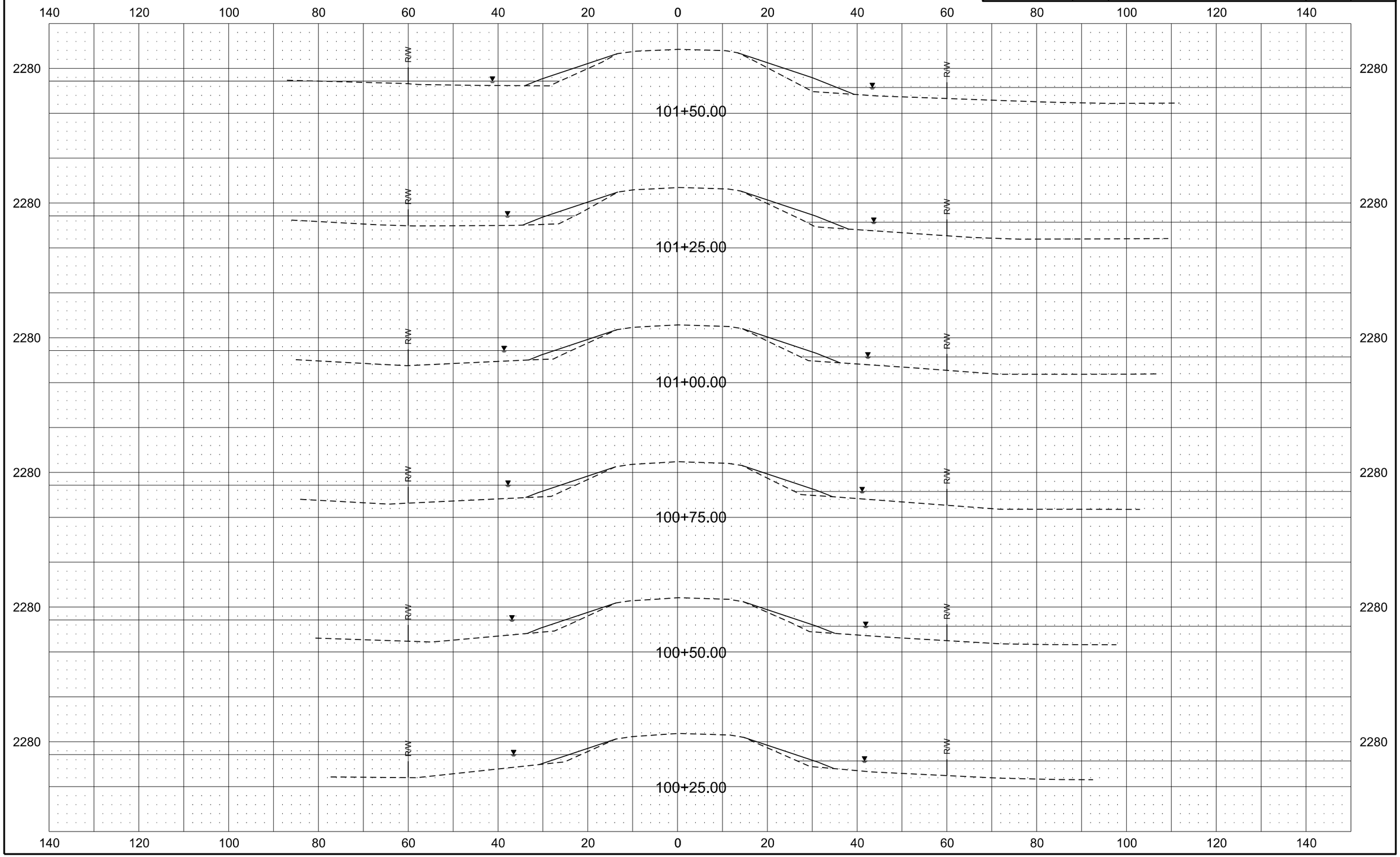
99+27.02

99+25.00

99+00.00

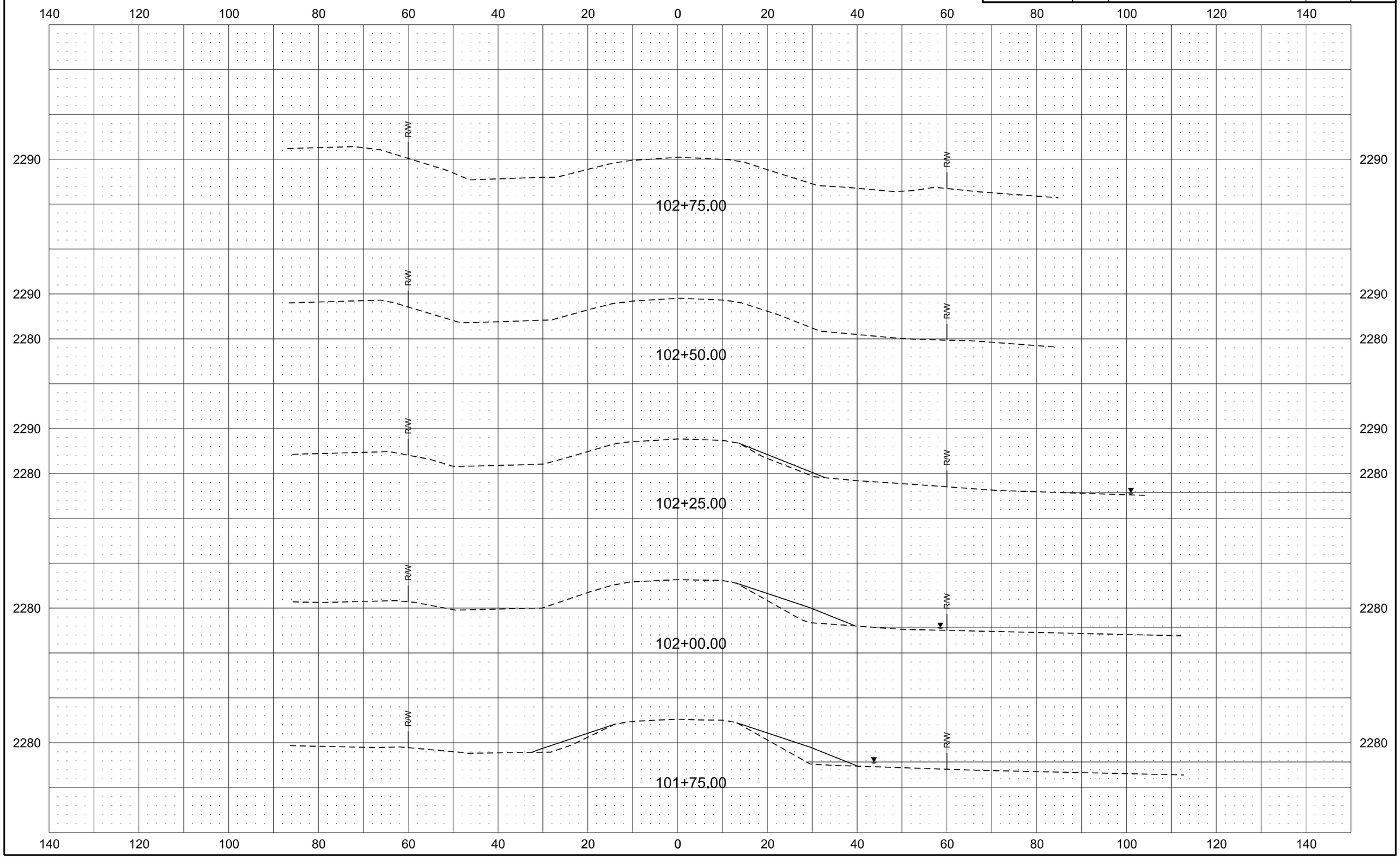
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	106



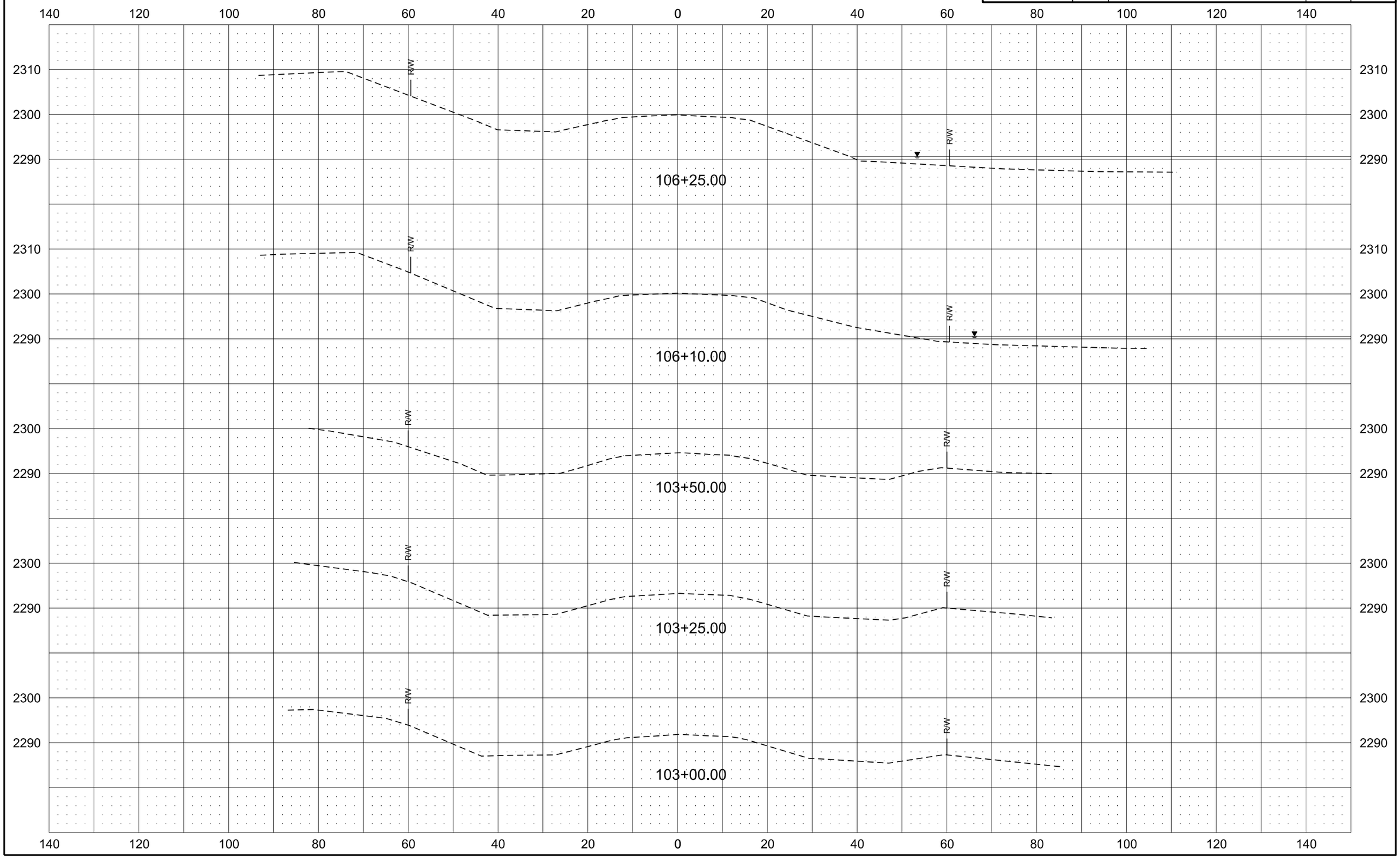
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	107



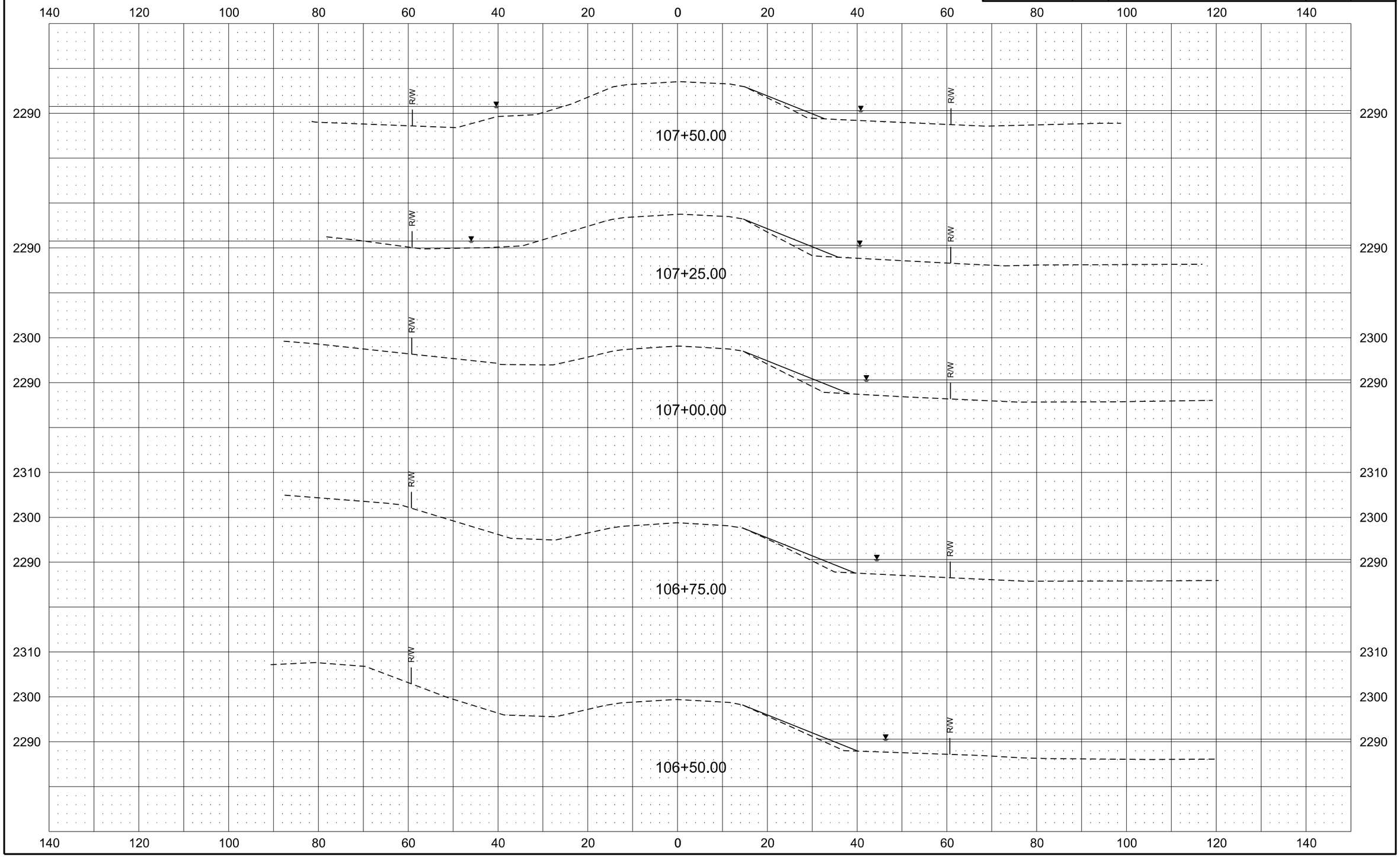
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	108



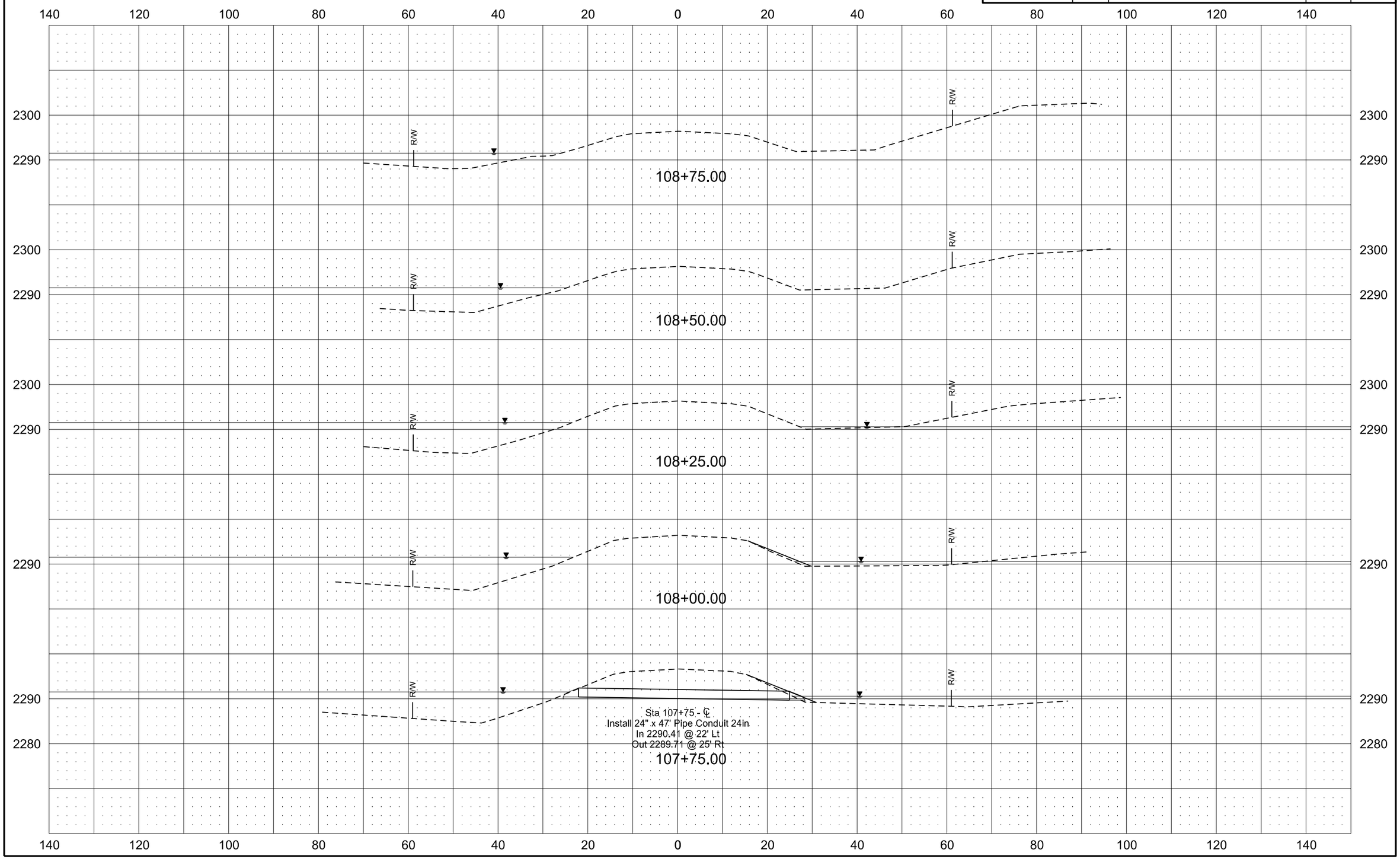
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	109



Alignment K-7

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	110



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	111

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2300

R/W

110+25.00

110+00.00

109+75.00

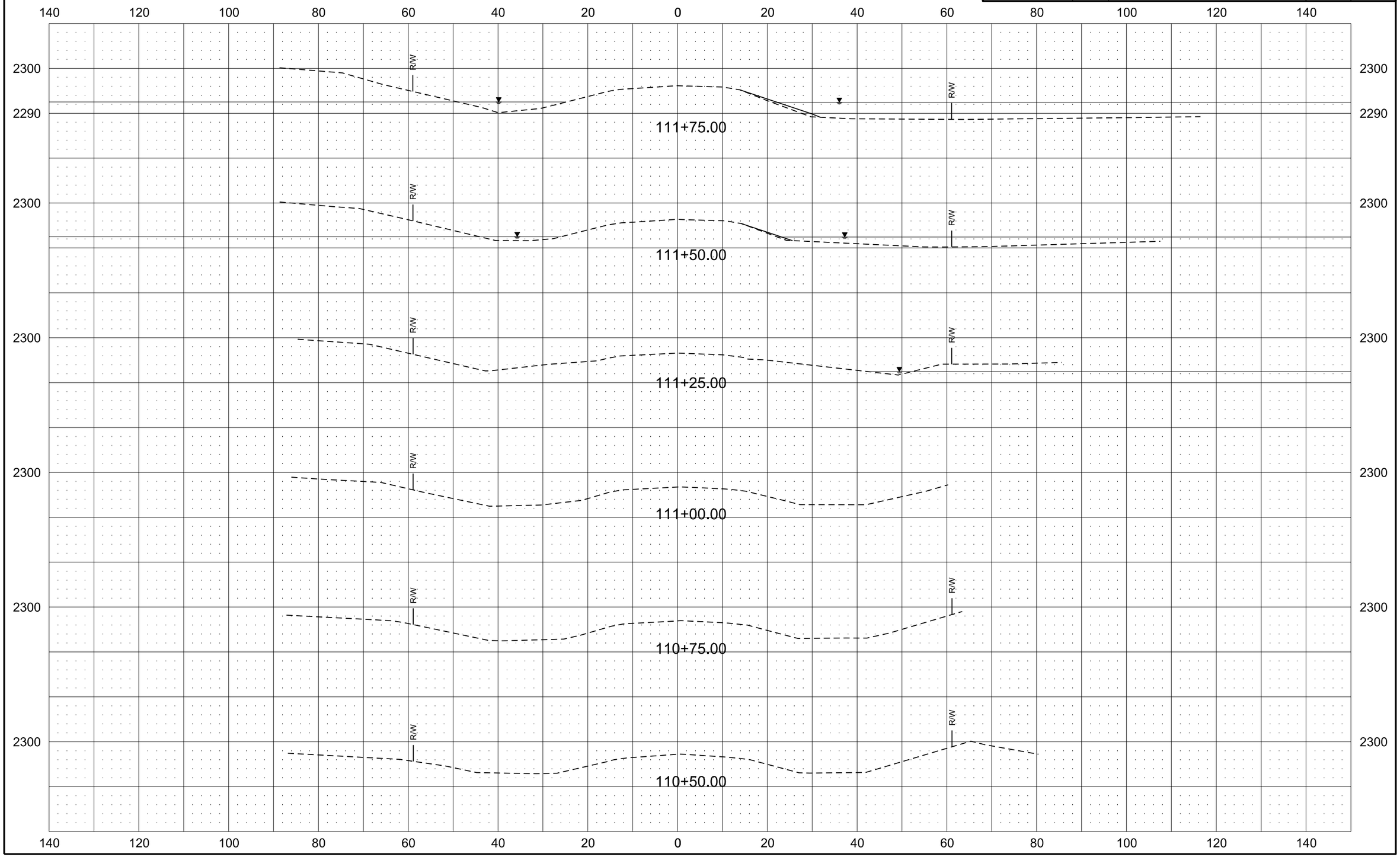
109+50.00

109+25.00

109+00.00

Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	112



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	113

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

113+25.00

113+00.00

112+75.00

112+50.00

112+25.00

112+00.00

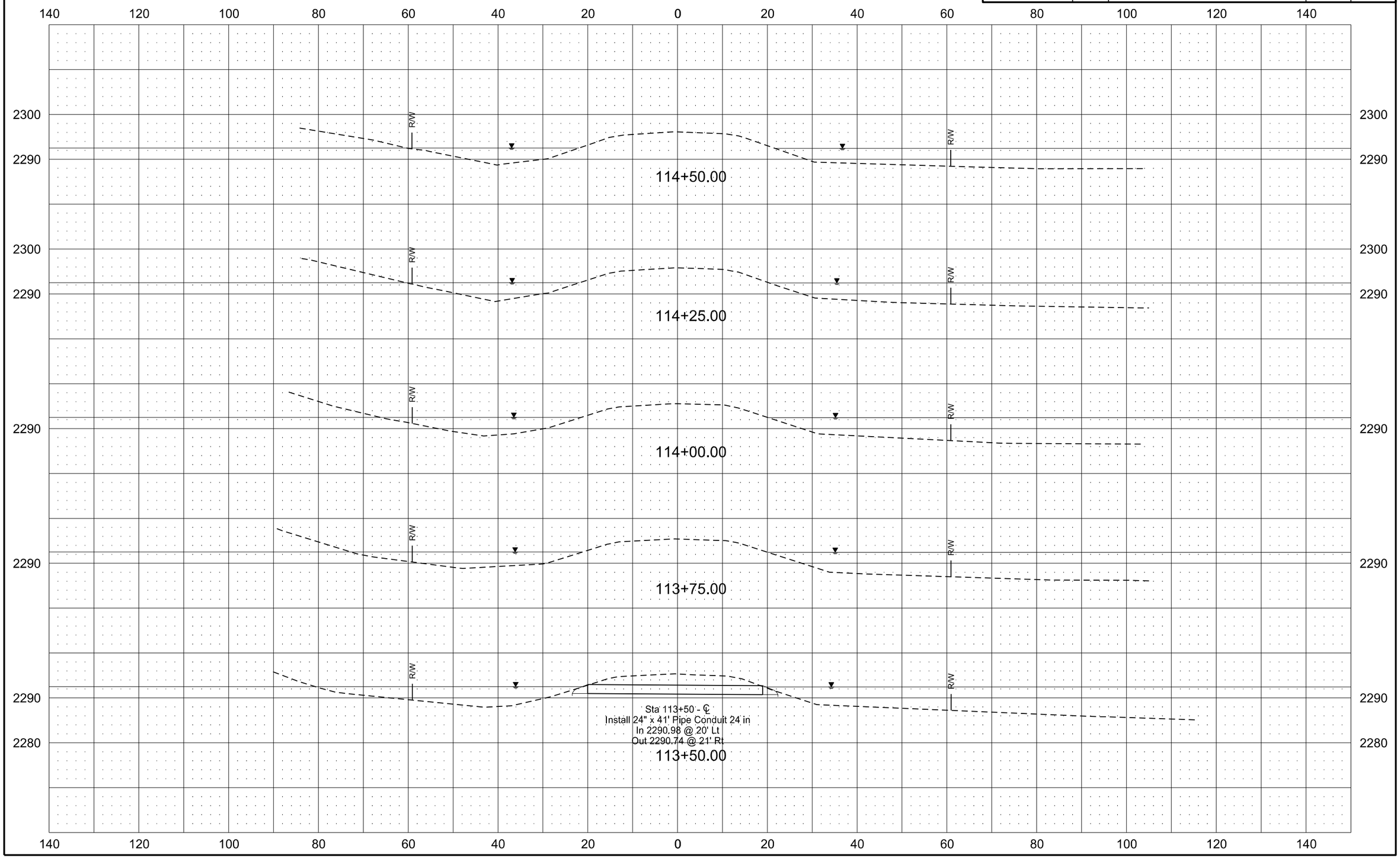
R/W

2290

2300

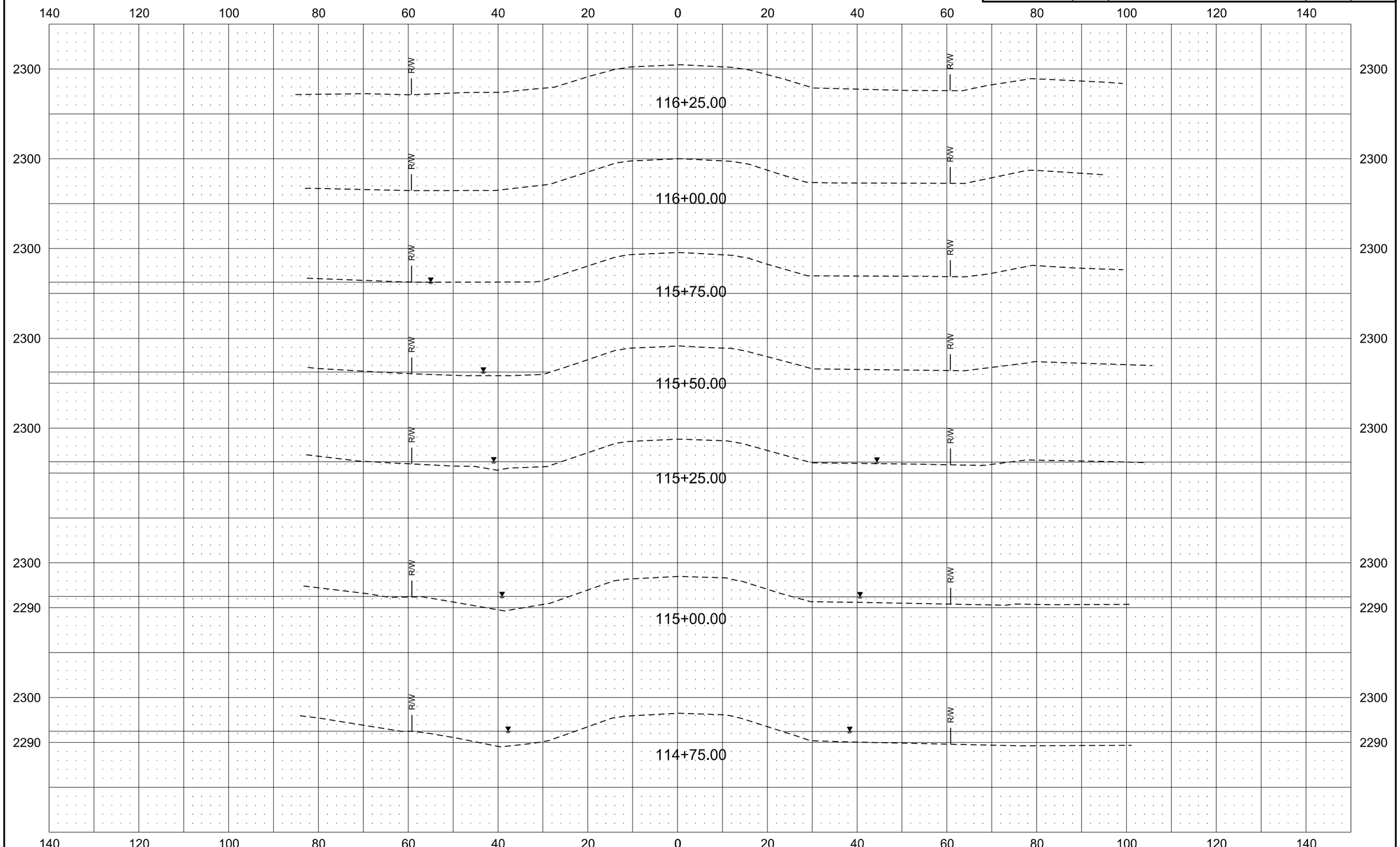
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	114



Alignment K-7

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	115



10/29/2017 7:49:27 PM cschatz N:\20732\ROM-0300(135)\Design\Mountrail\200_Xsec\200_Xsec_Sheets.dgn

Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	116

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2310
2300

R/W

150+25.00

150+00.00

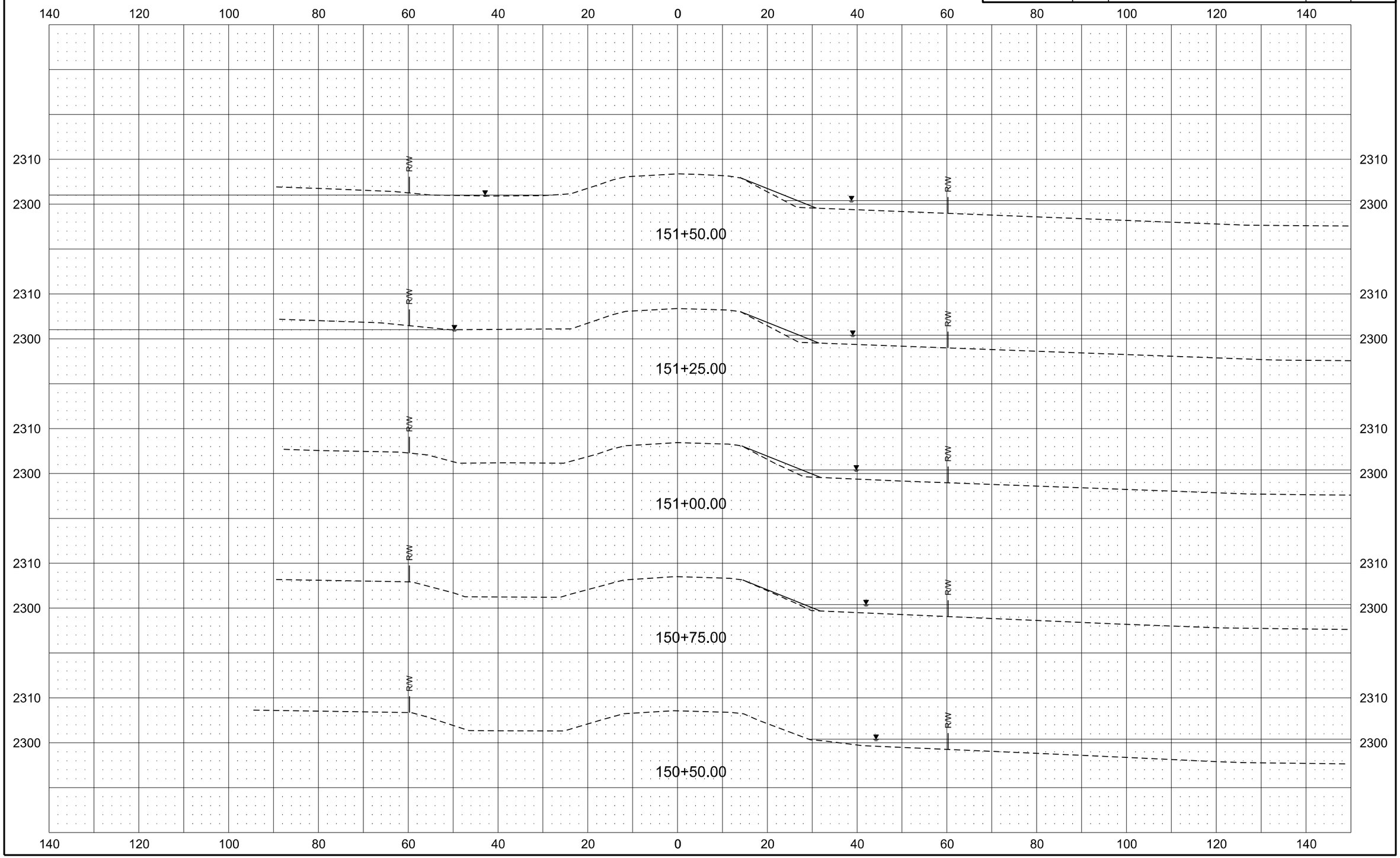
149+75.00

149+50.00

116+40.00

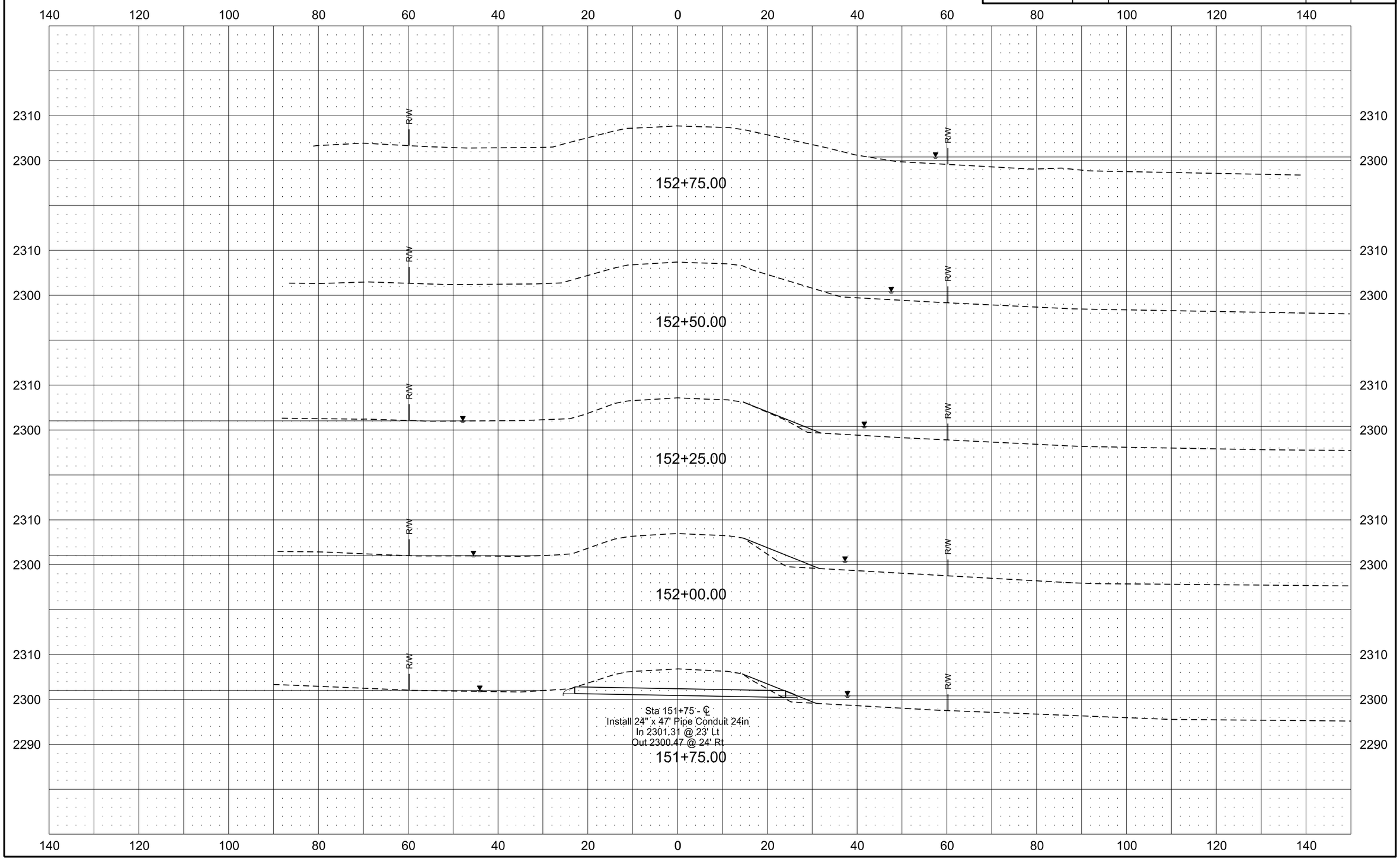
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	117



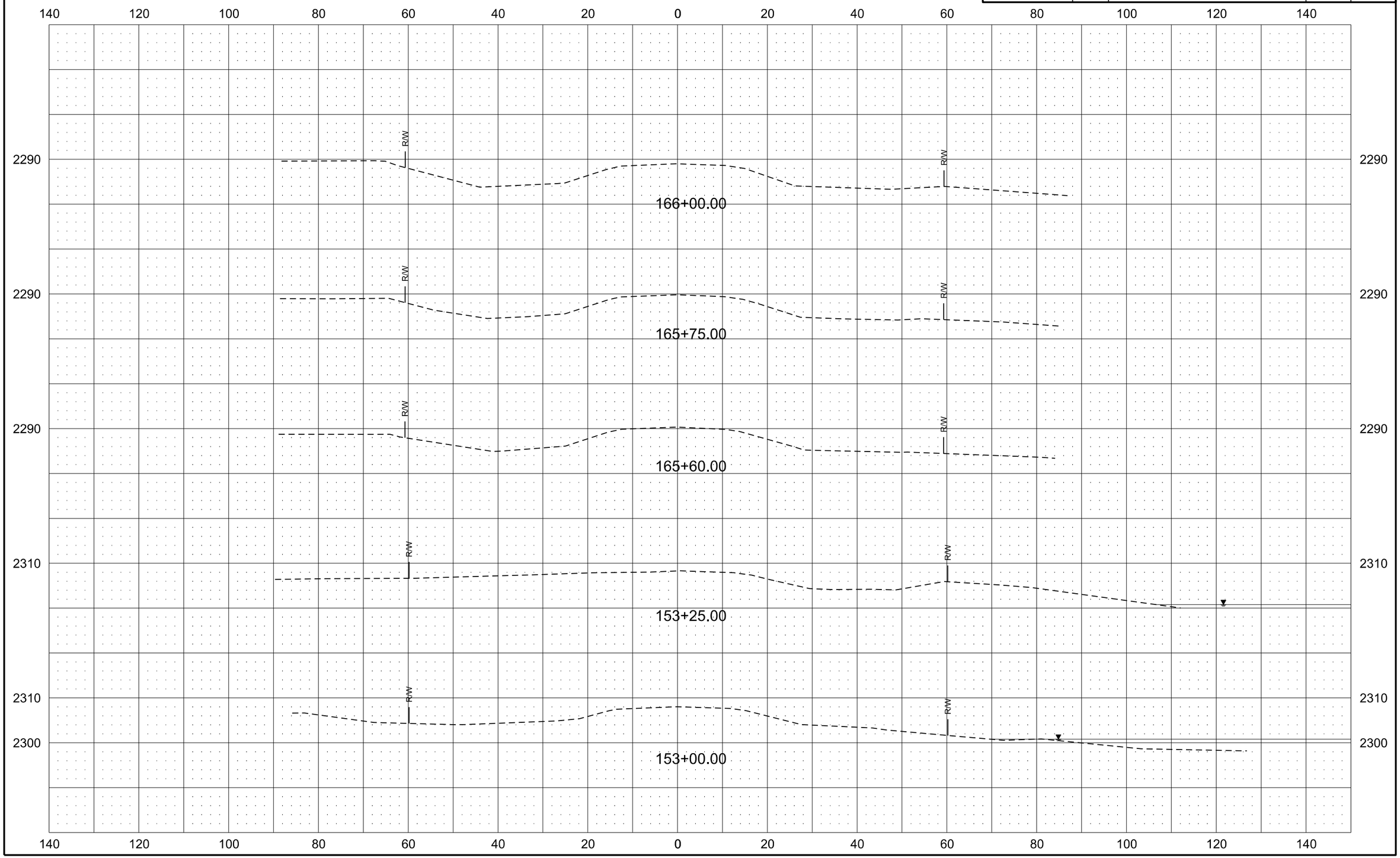
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	118



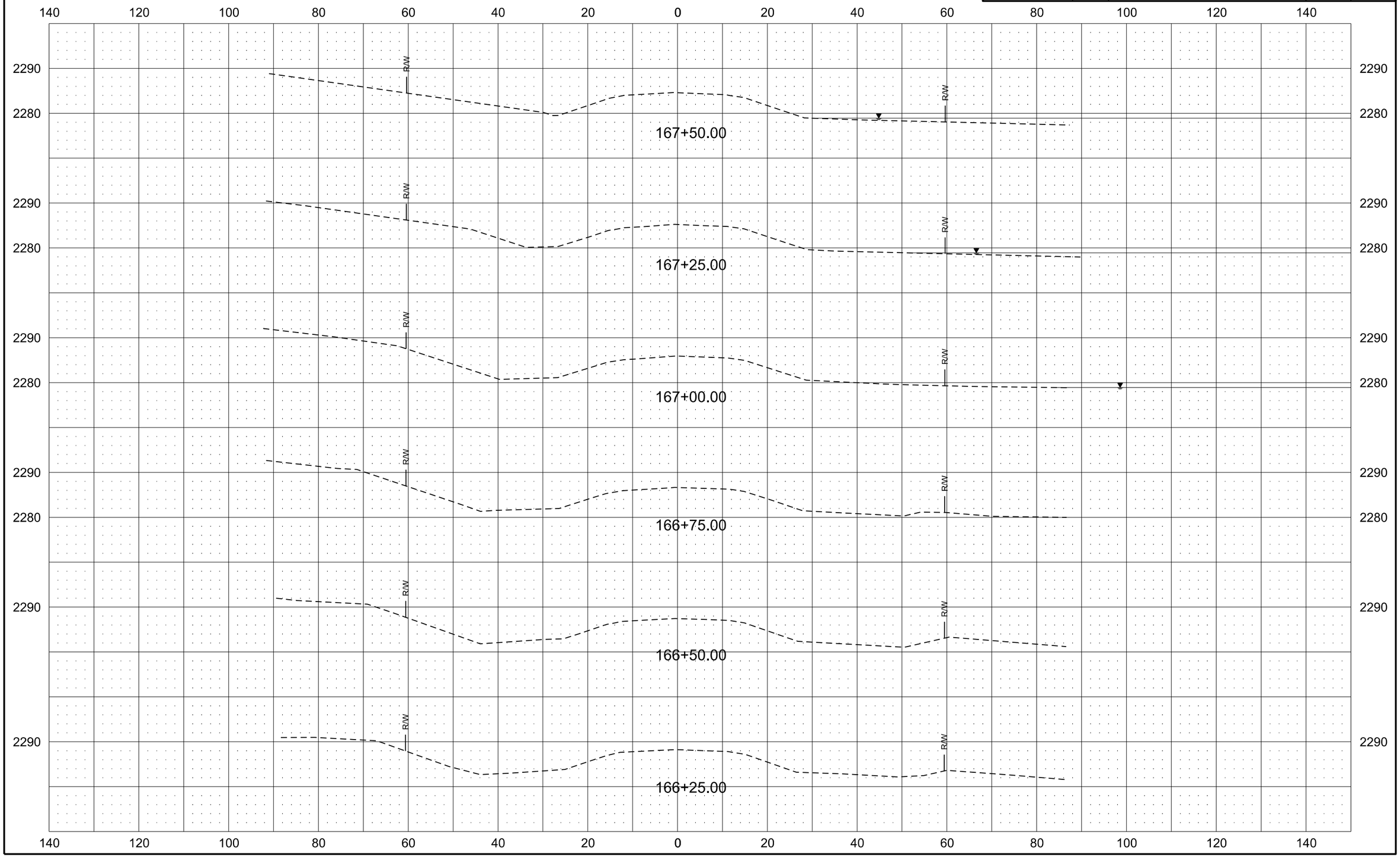
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	119



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	120



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	121

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2280

RAW

169+00.00

168+75.00

168+50.00

168+25.00

168+00.00

2290

167+75.00

Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	122

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2280 2270

R/W

170+75.00

170+50.00

170+25.00

Sta 170+00 - ℄
Install 18" x 35' Pipe Conduit 18in
In 2278.77 @ 15' Lt
Out 2278.54 @ 20' Rt

170+00.00

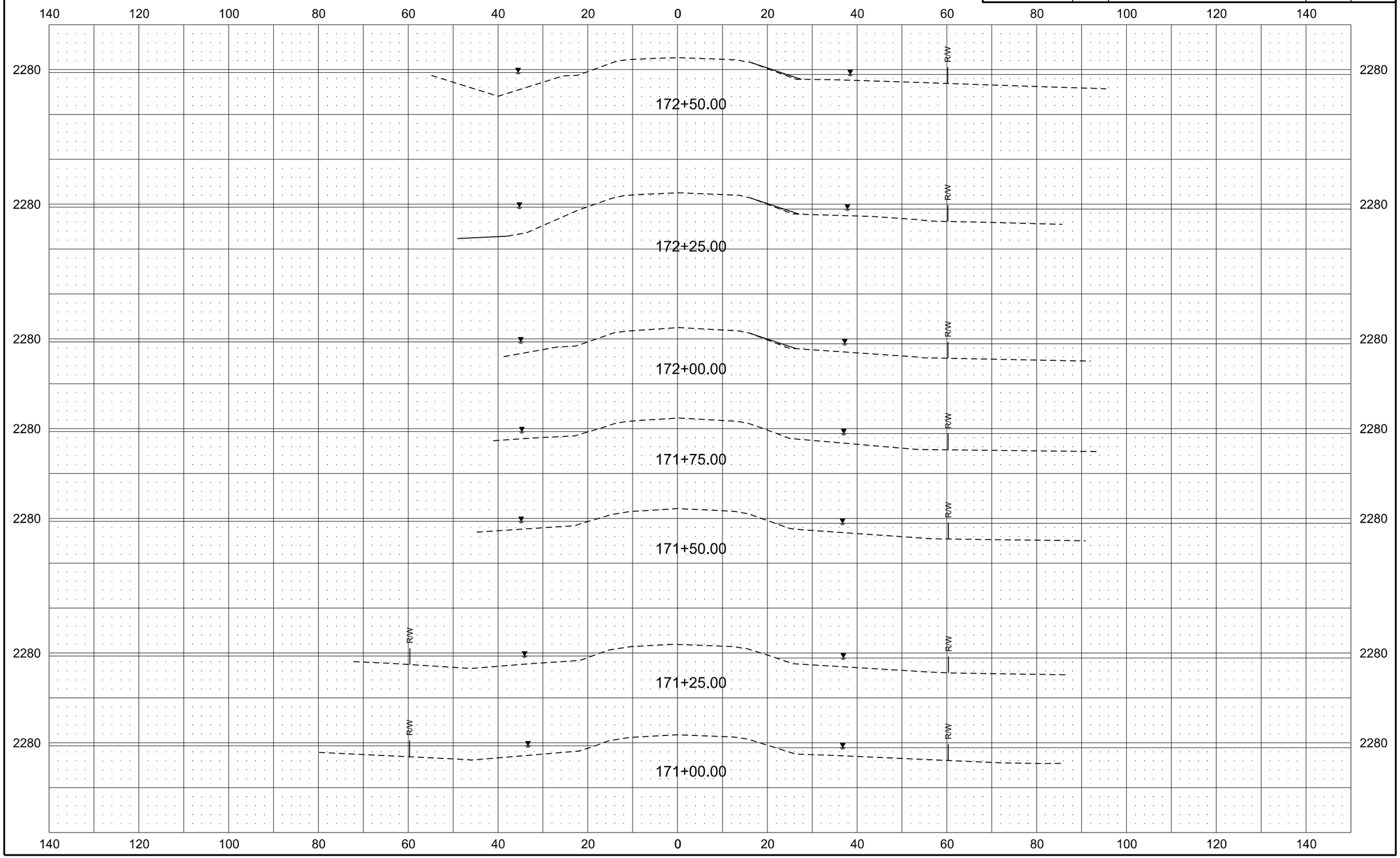
169+75.00

169+50.00

169+25.00

Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	123



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	124

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2280

RAW

174+00.00

173+75.00

173+50.00

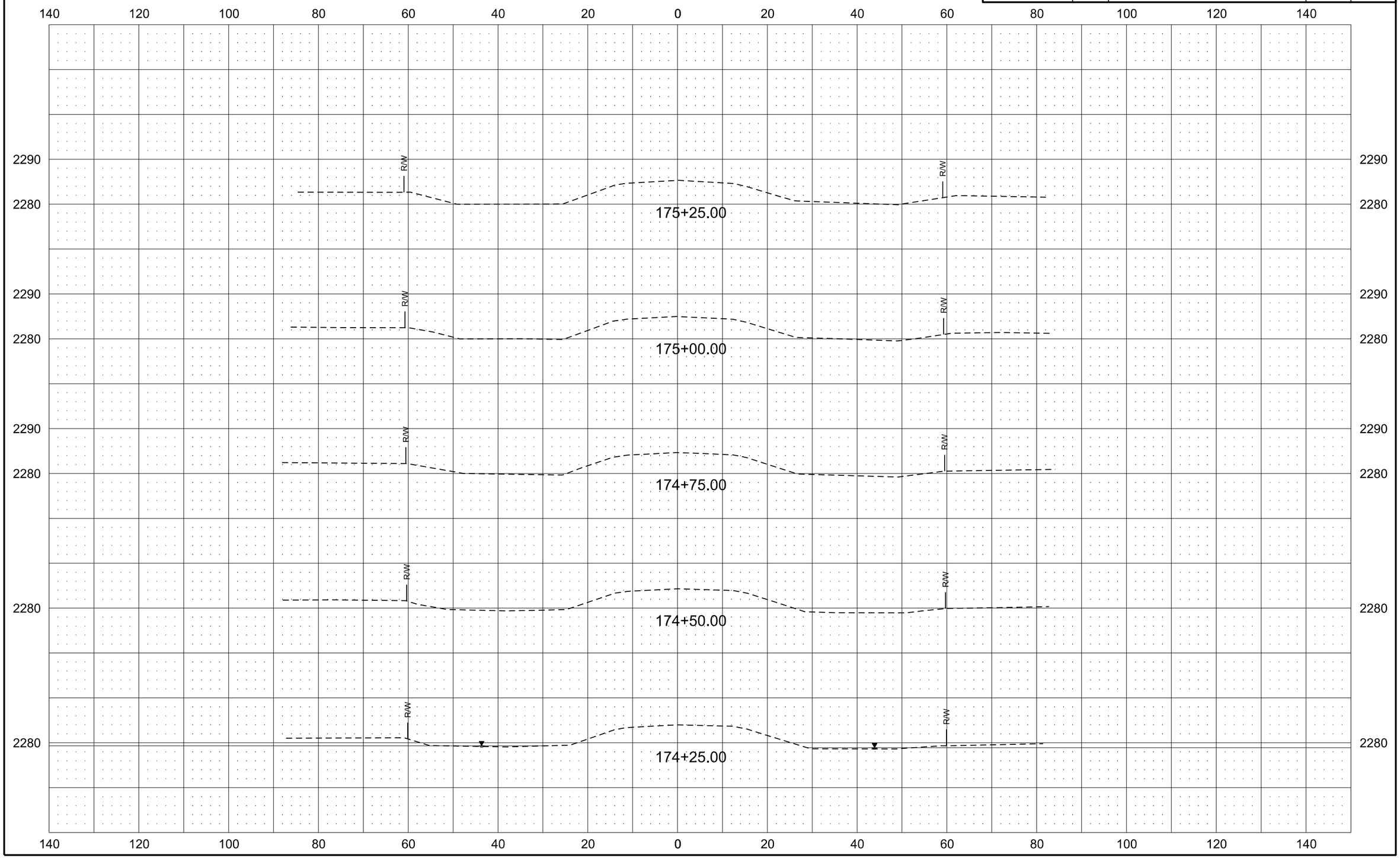
173+25.00

173+00.00

172+75.00

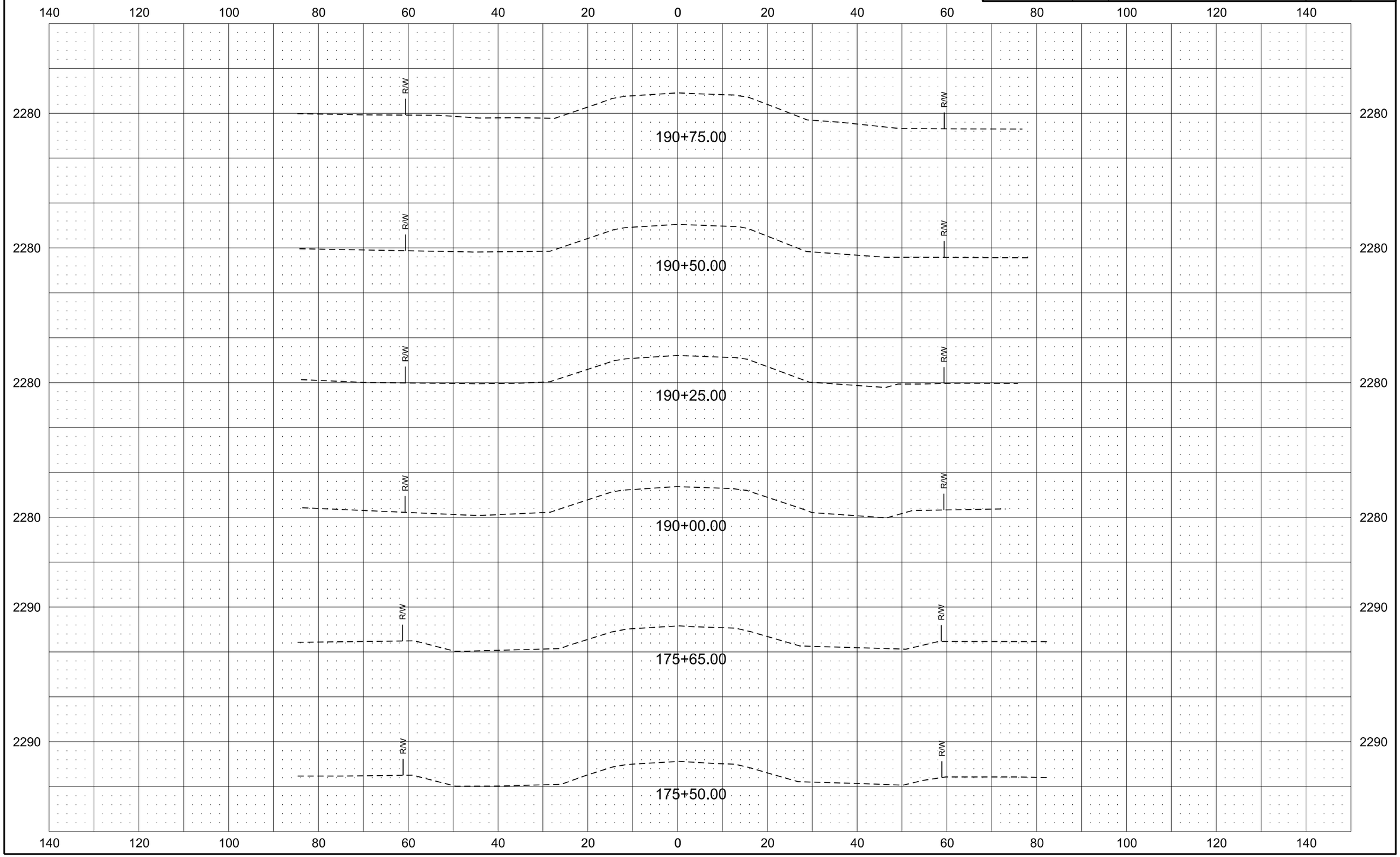
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	125



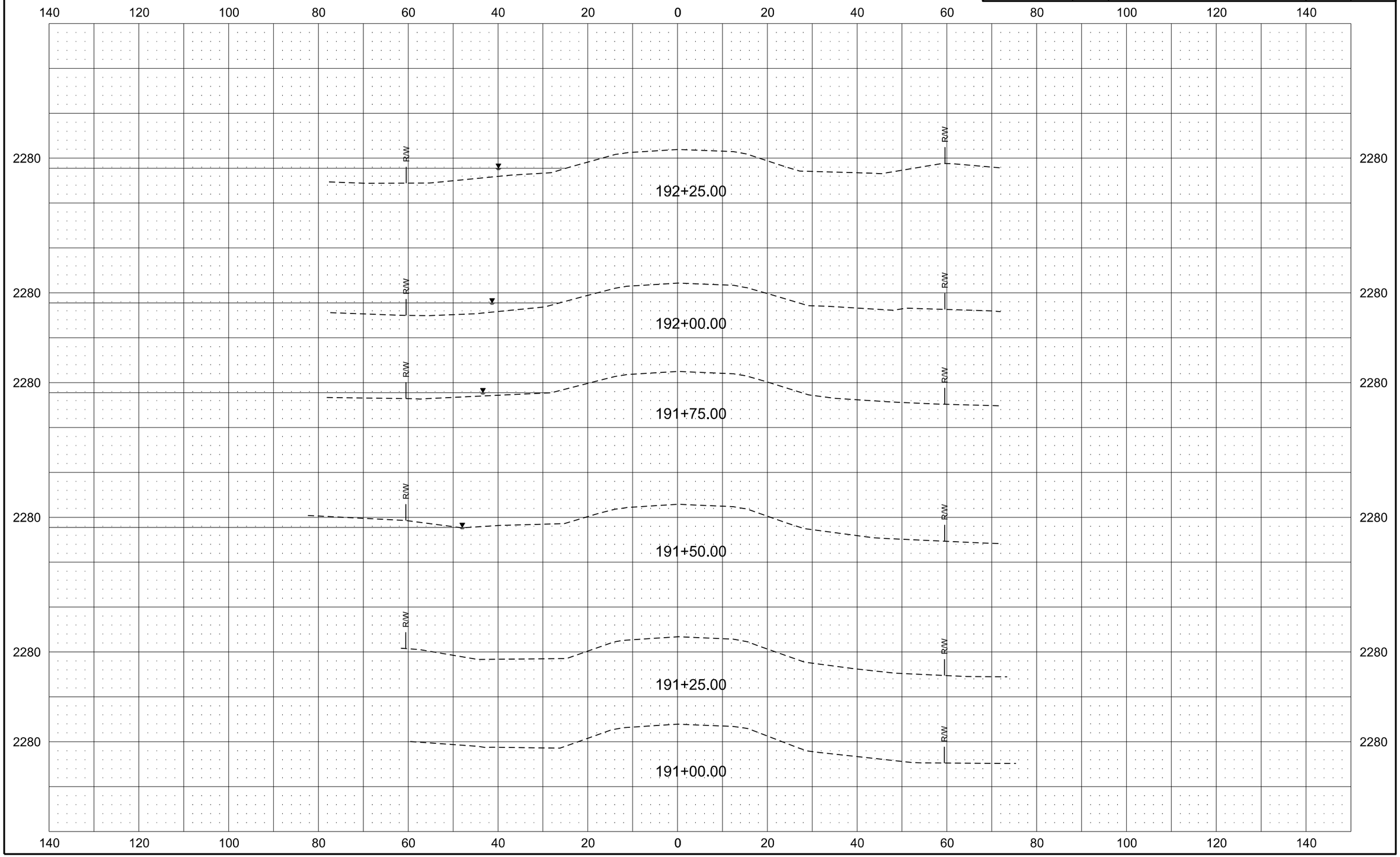
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	126



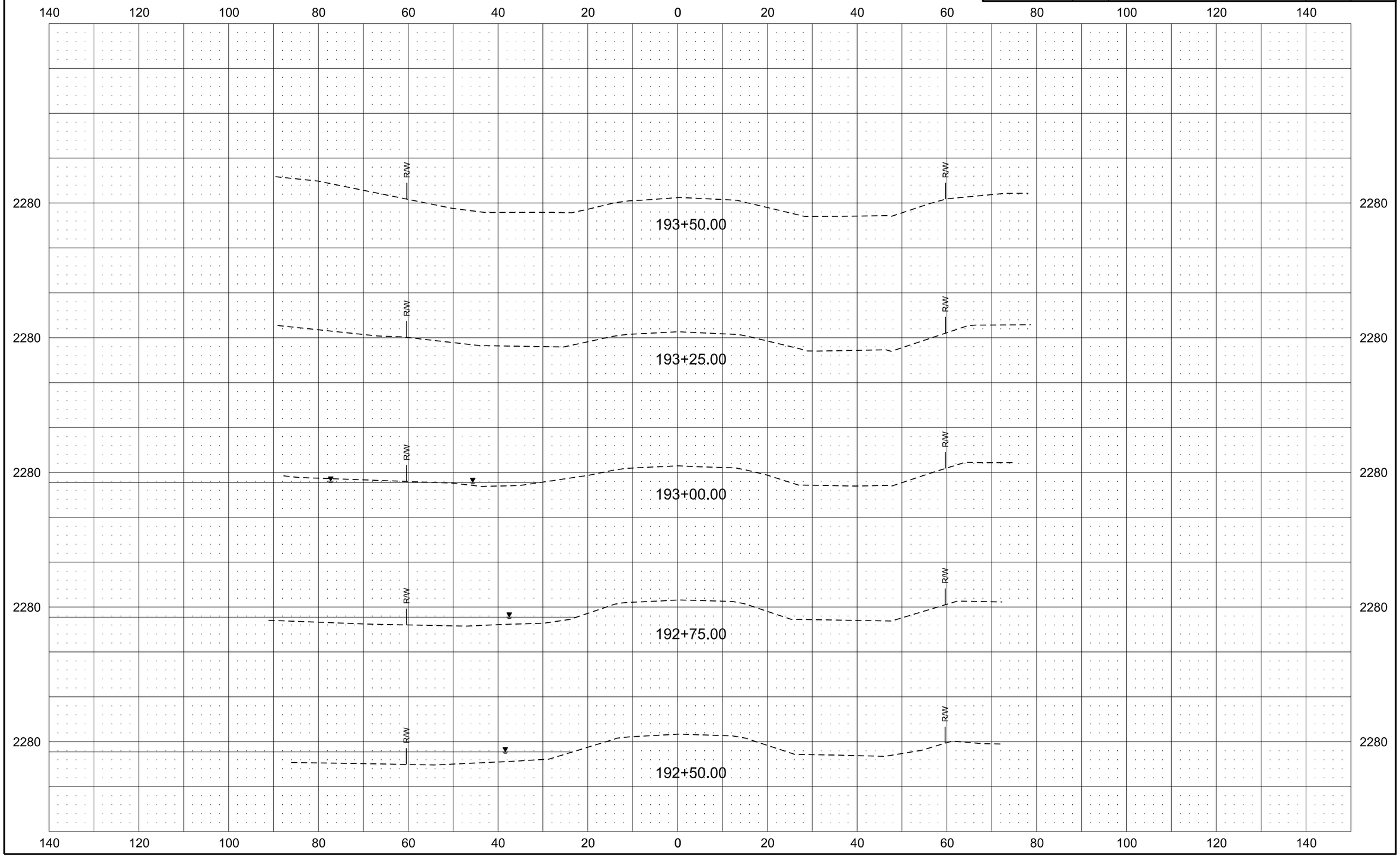
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	127



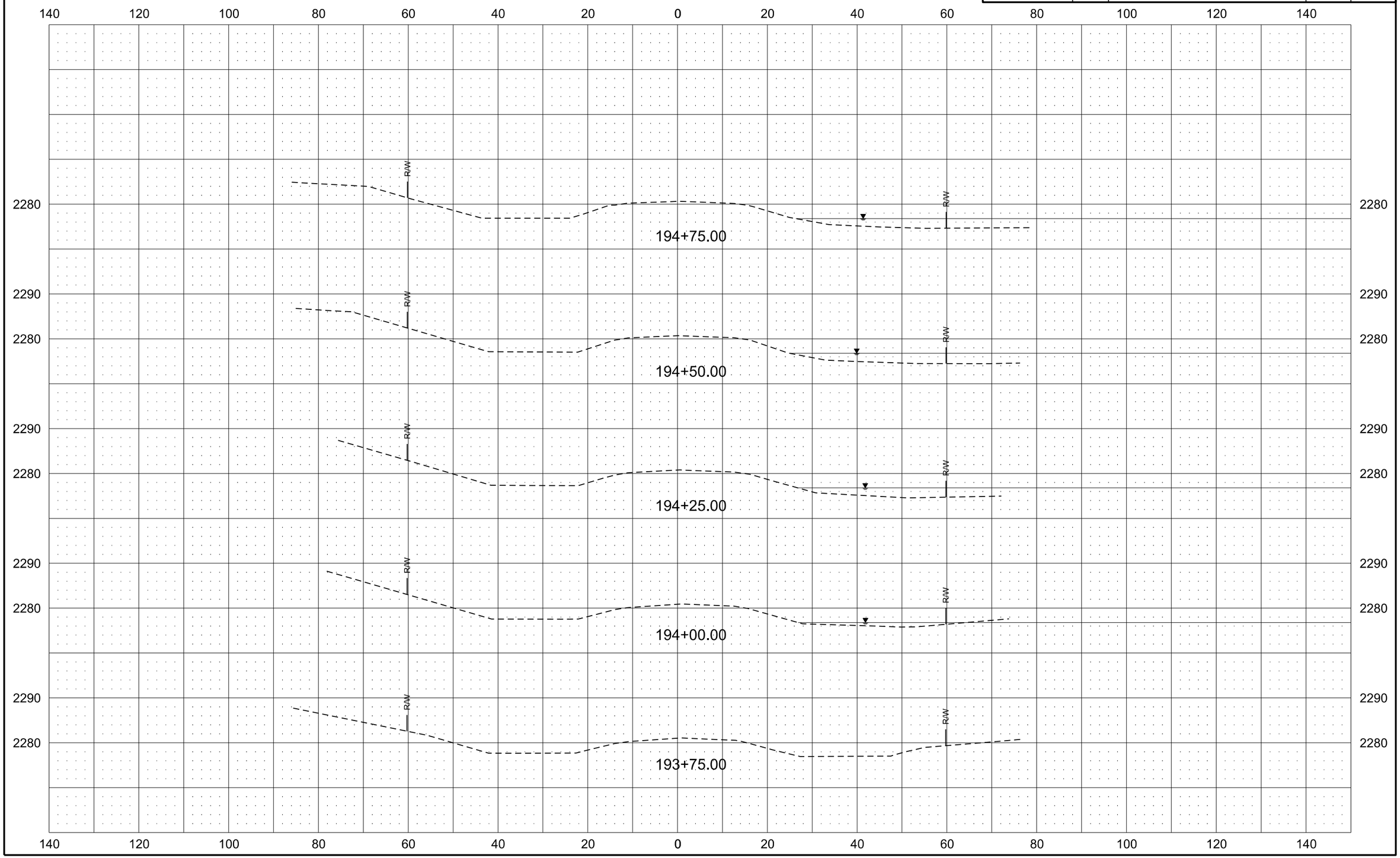
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	128



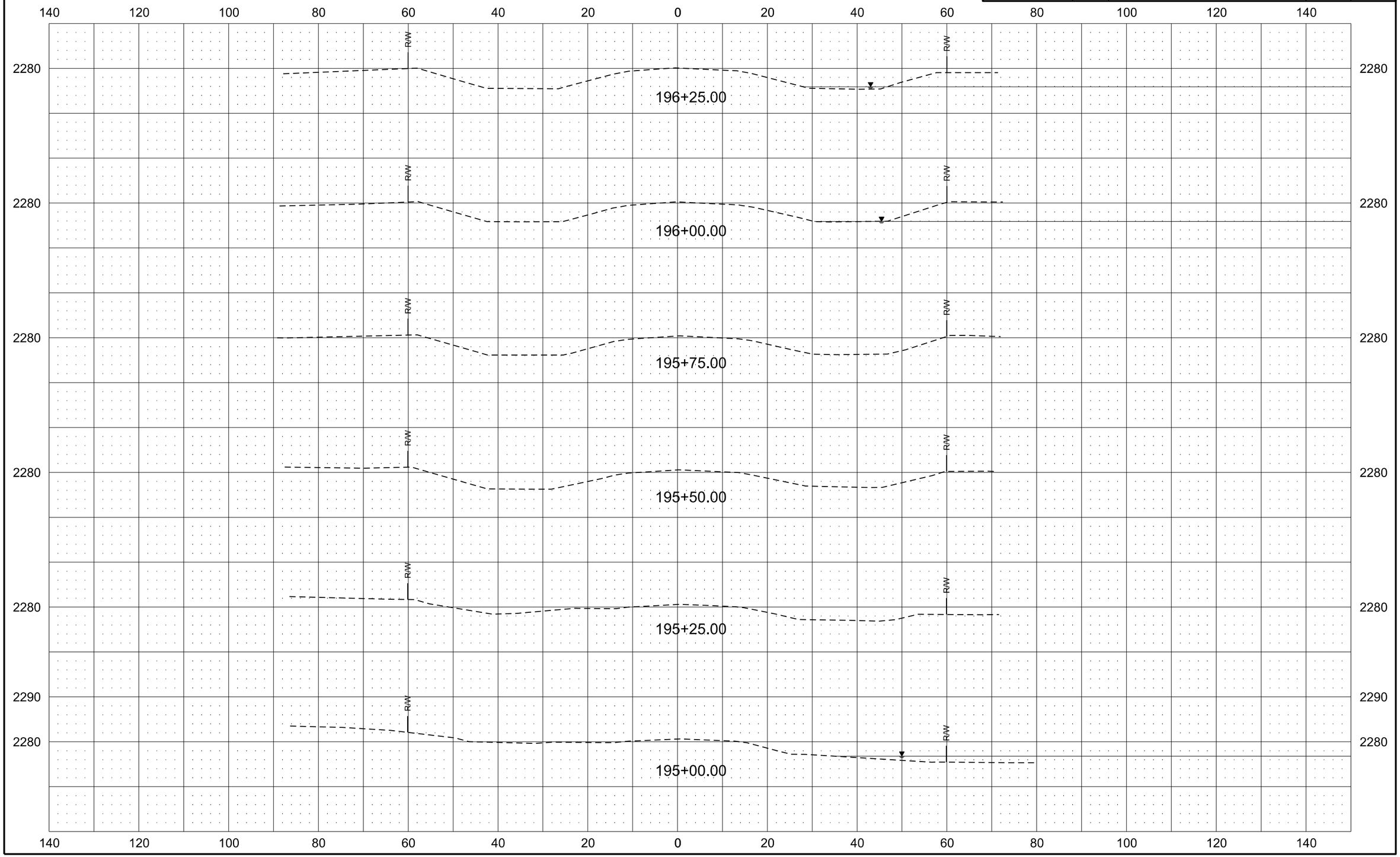
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	129



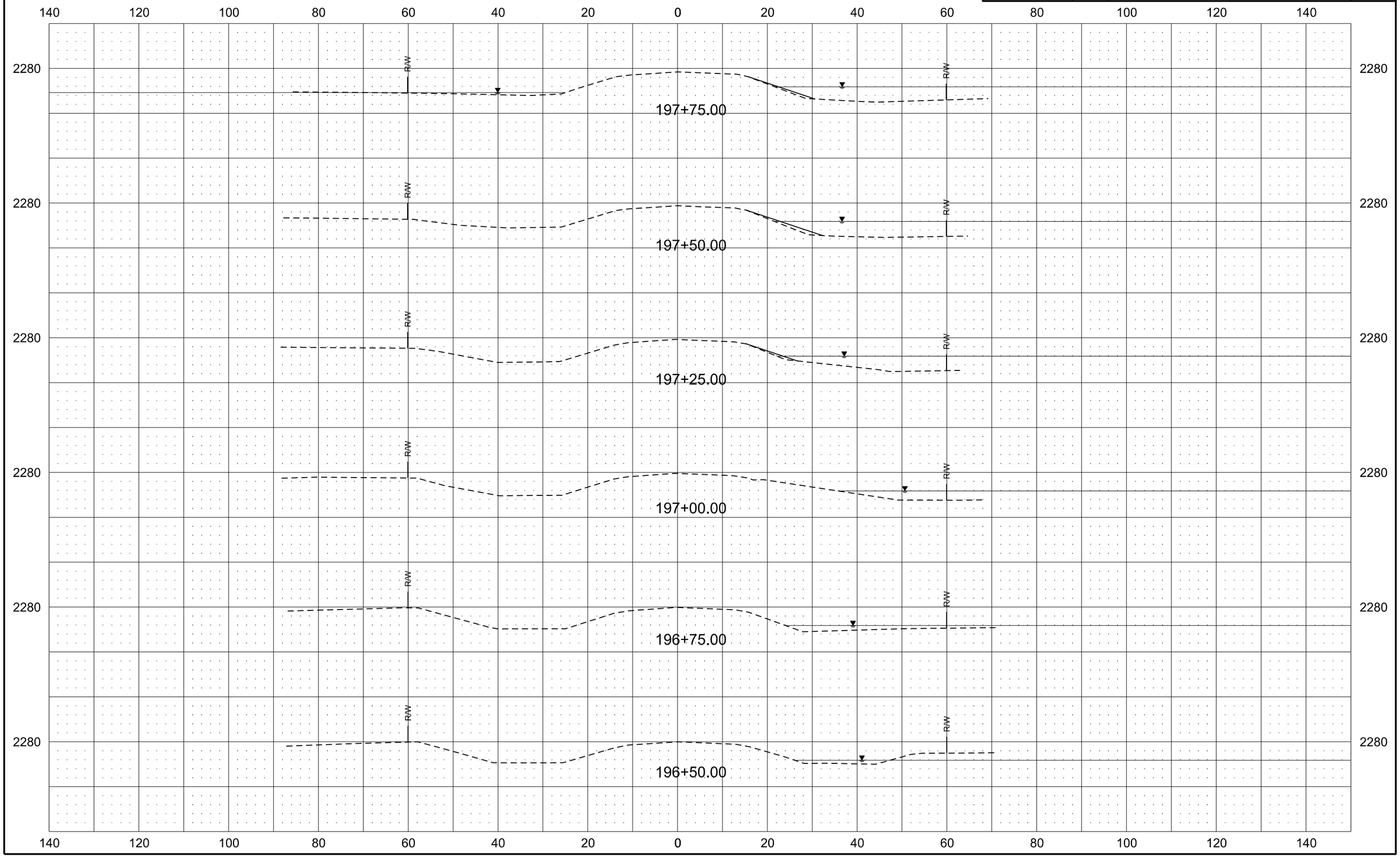
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	130



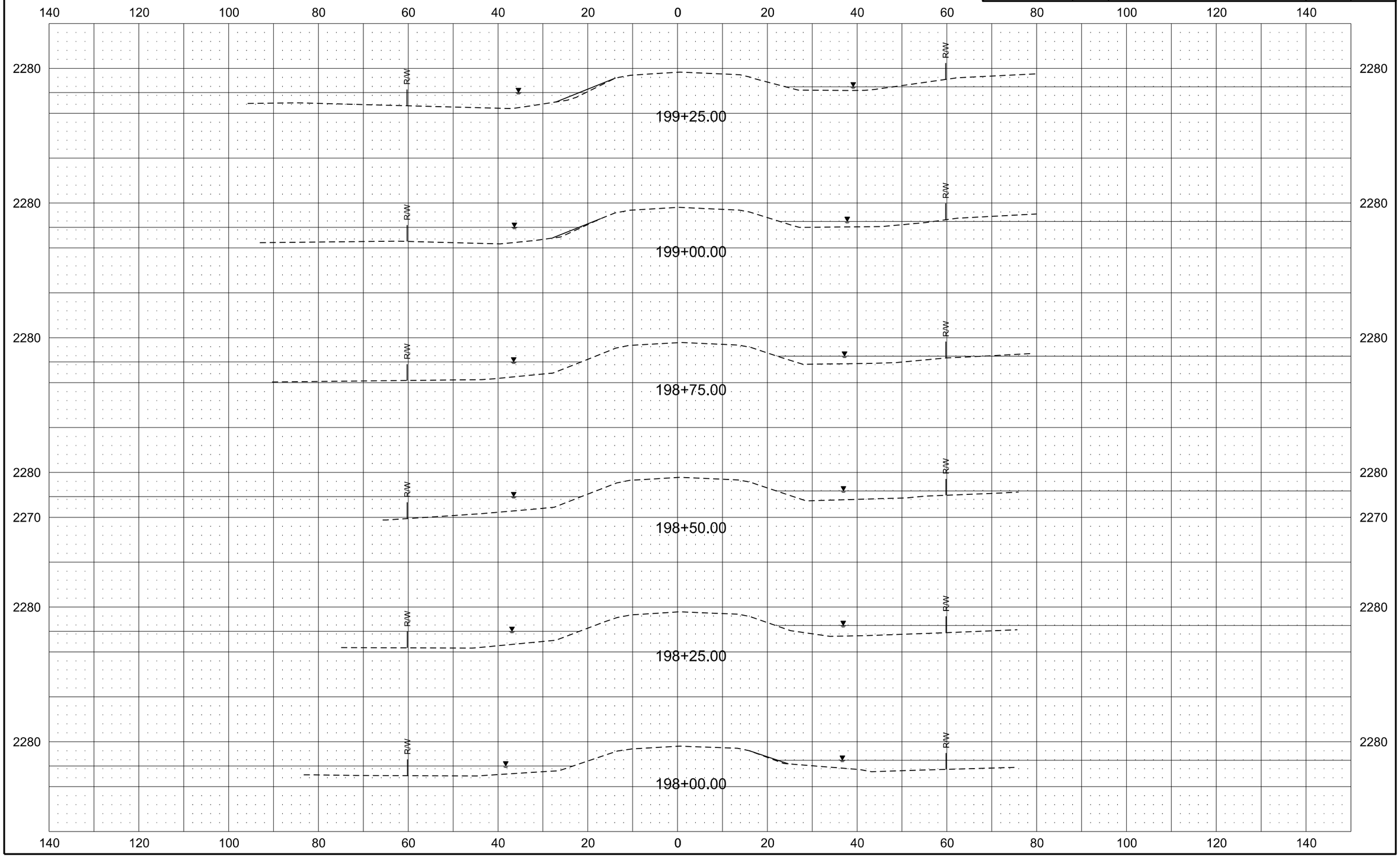
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	131



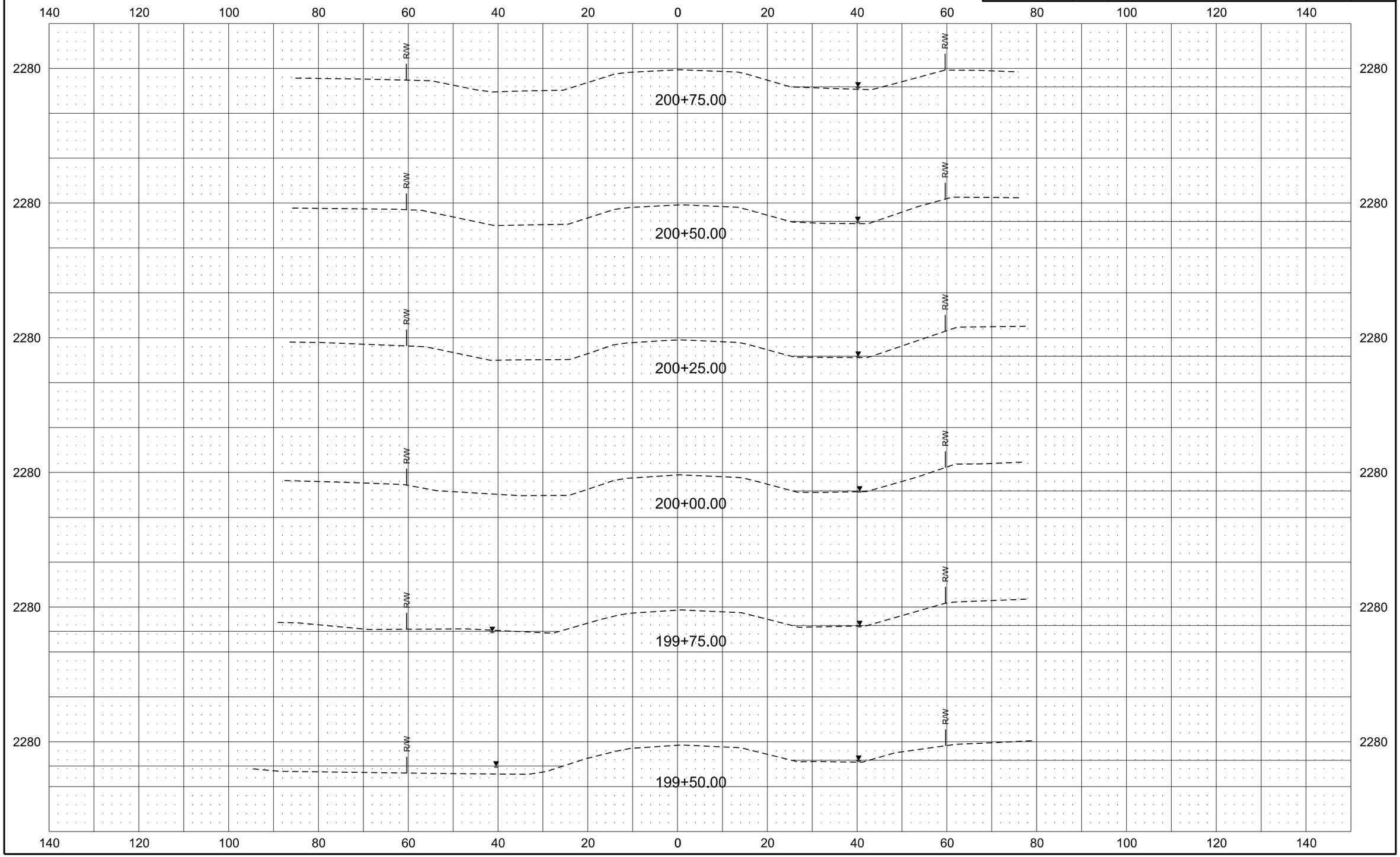
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	132



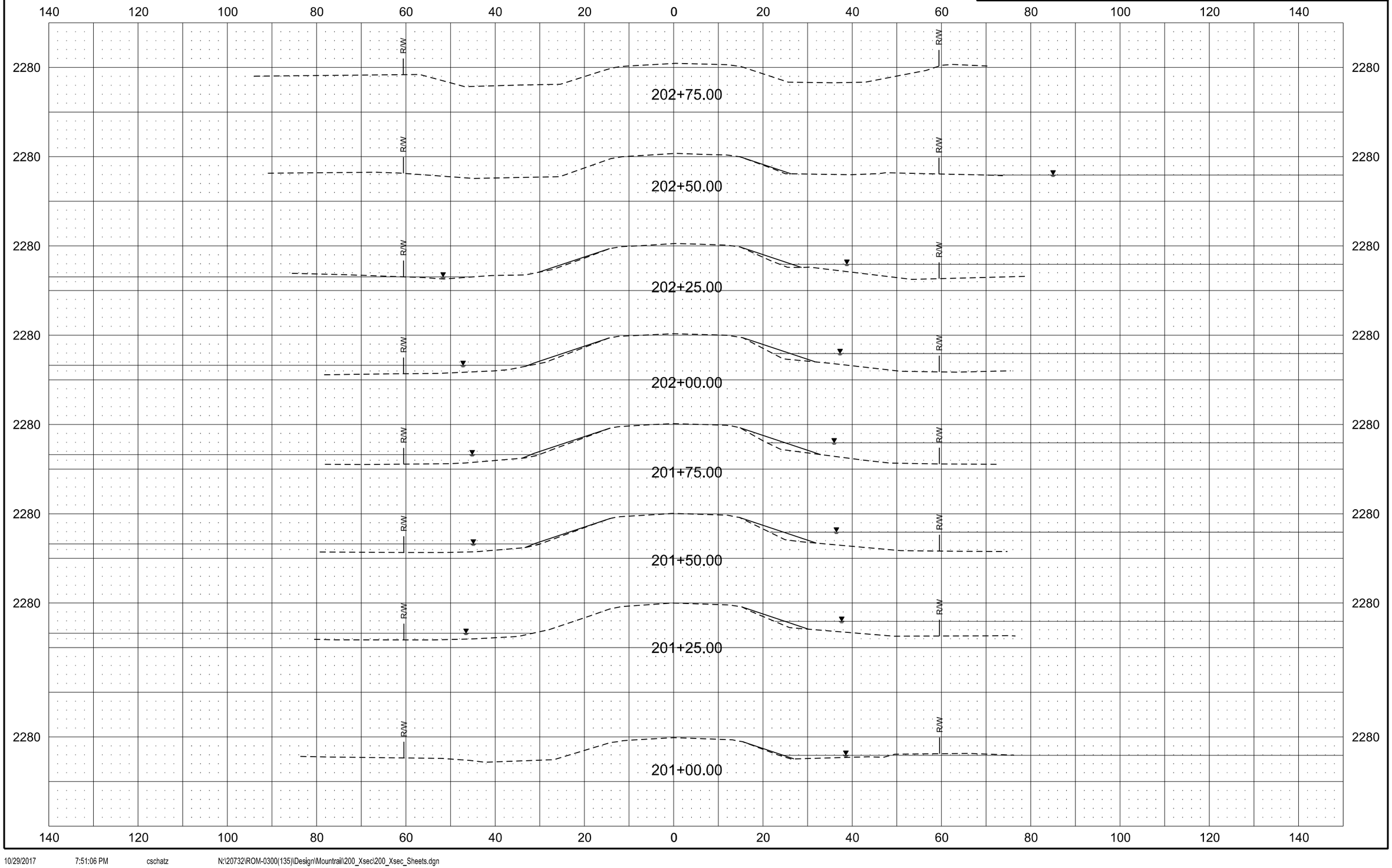
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	133



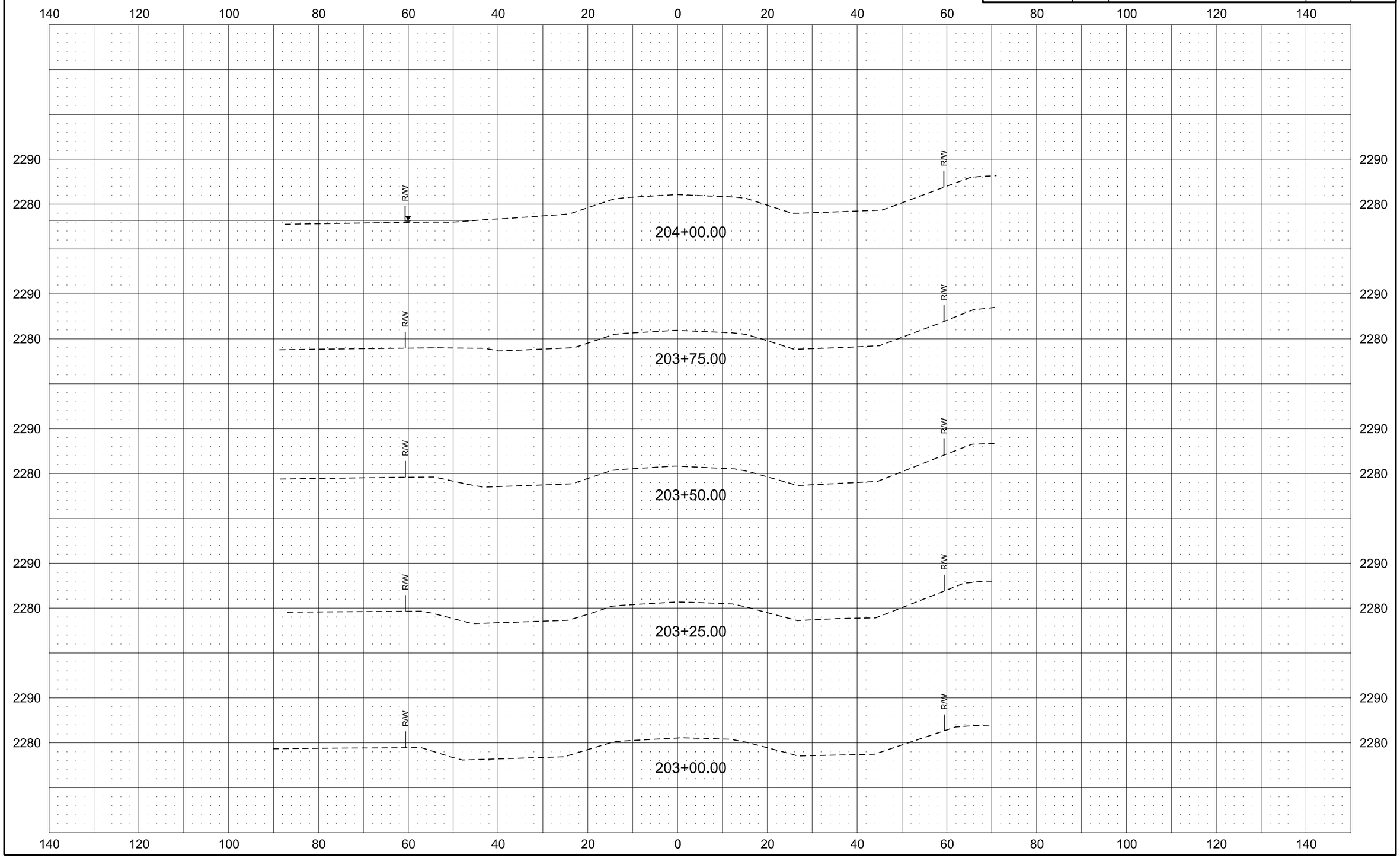
Alignment K-7

Revised 10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	ROM-0300(135)	200	134



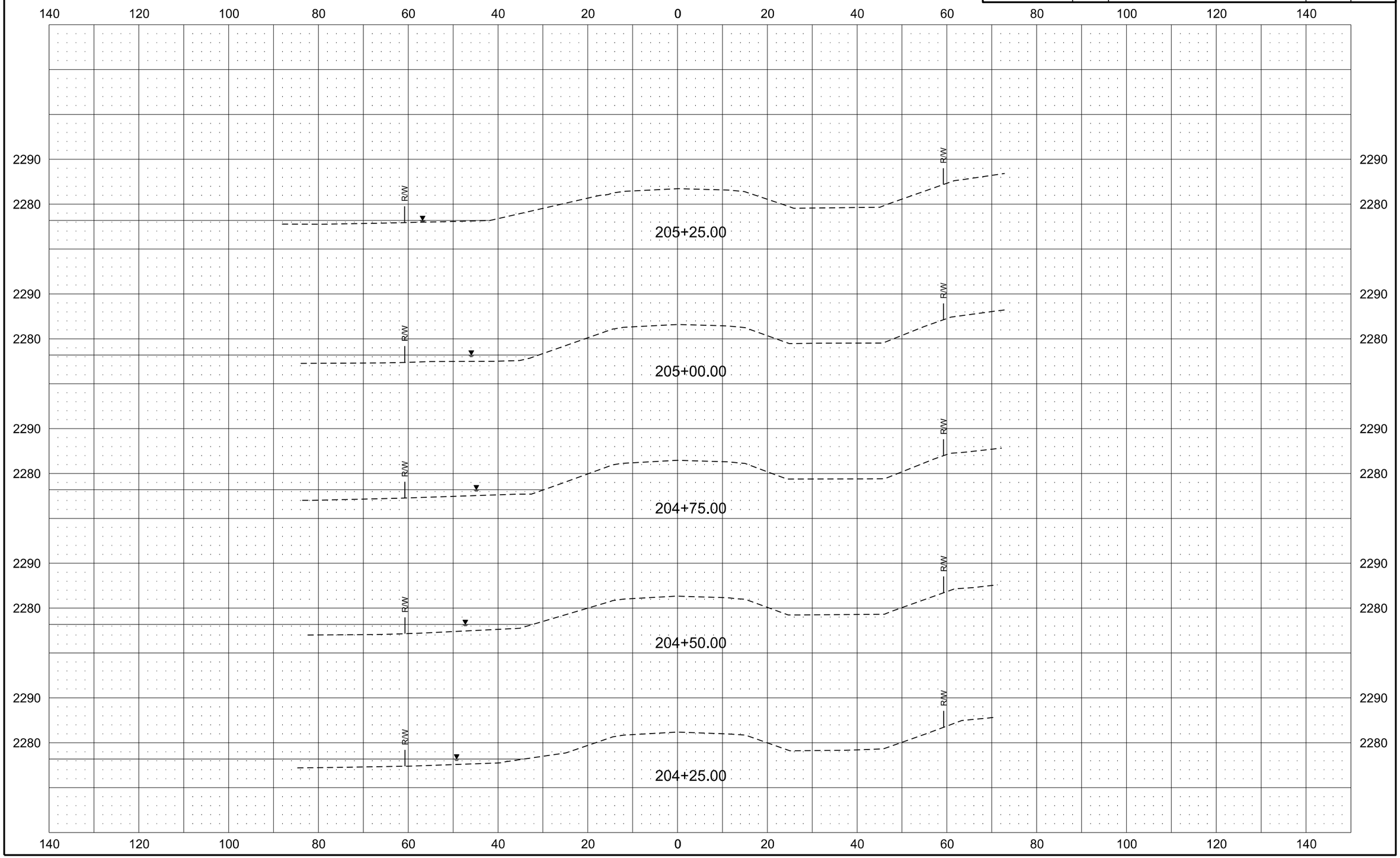
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	135



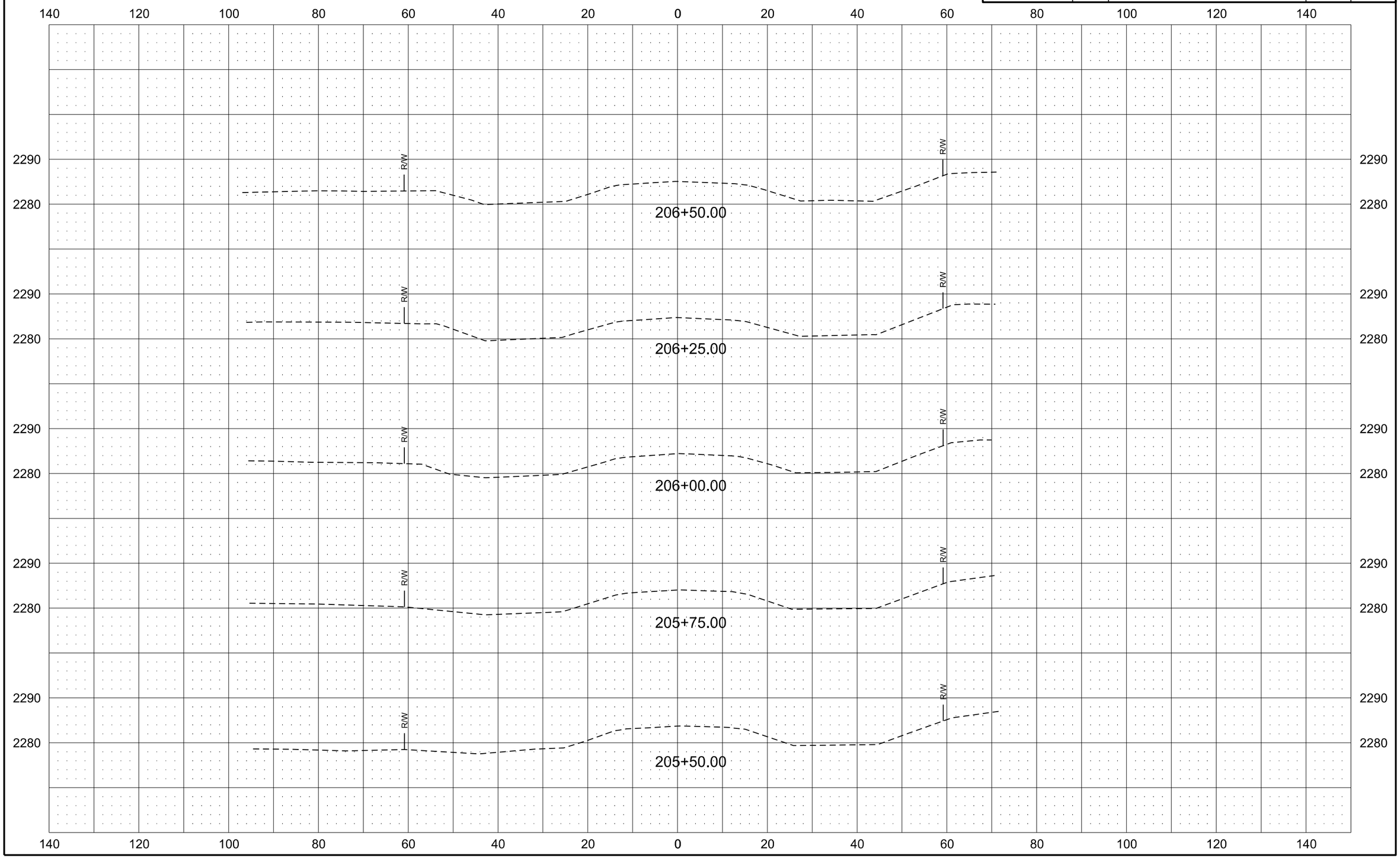
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	136



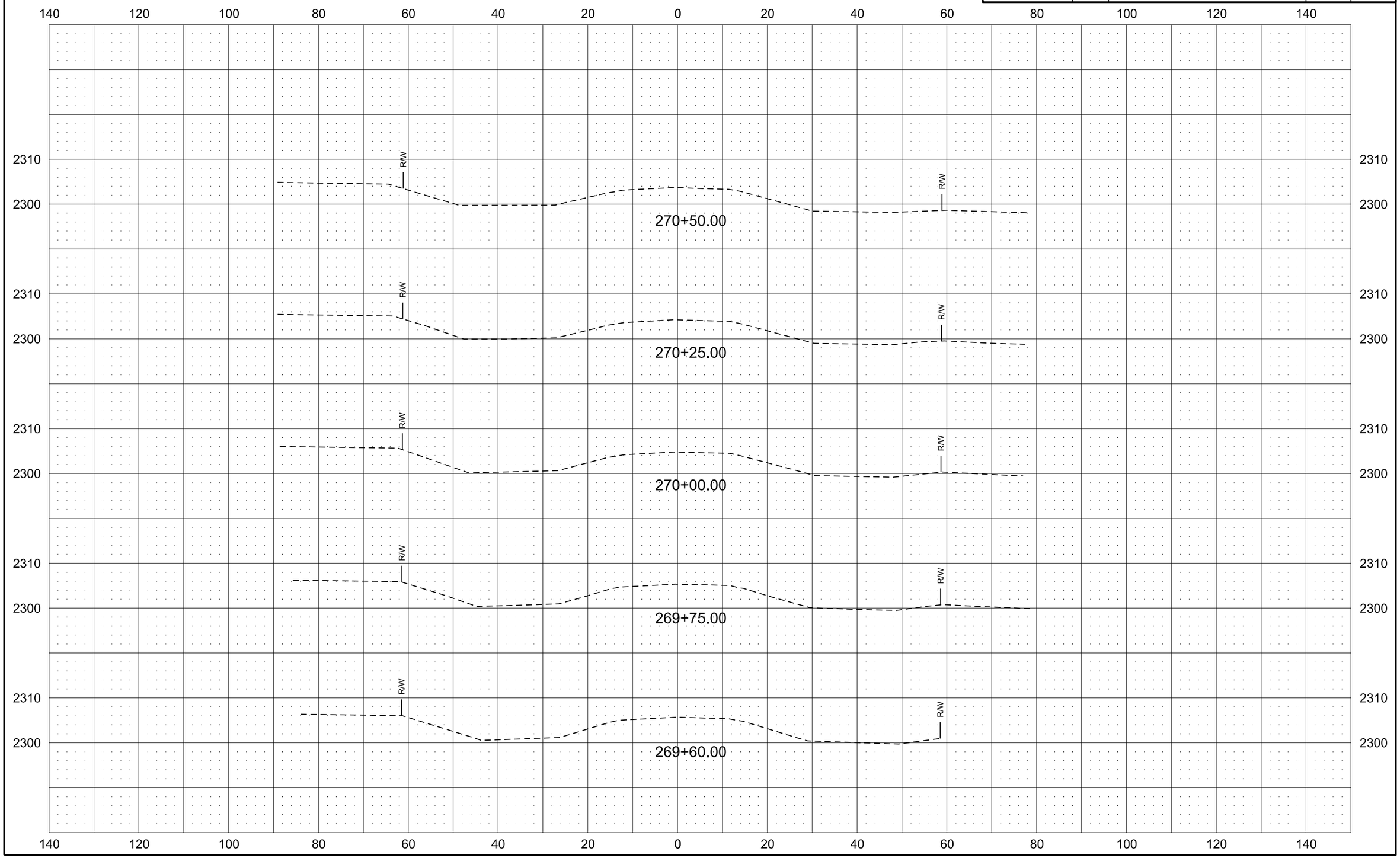
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	137



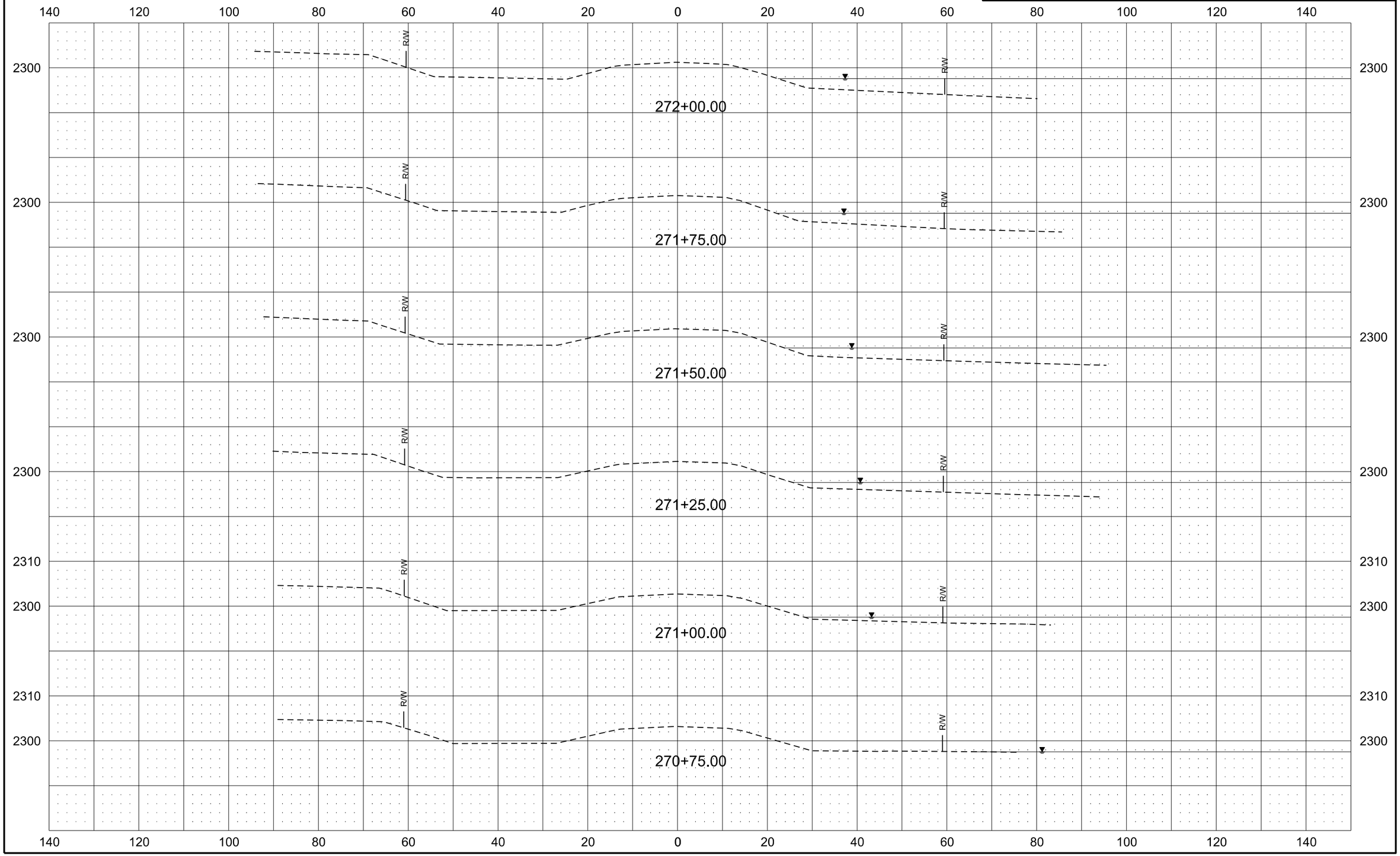
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	138



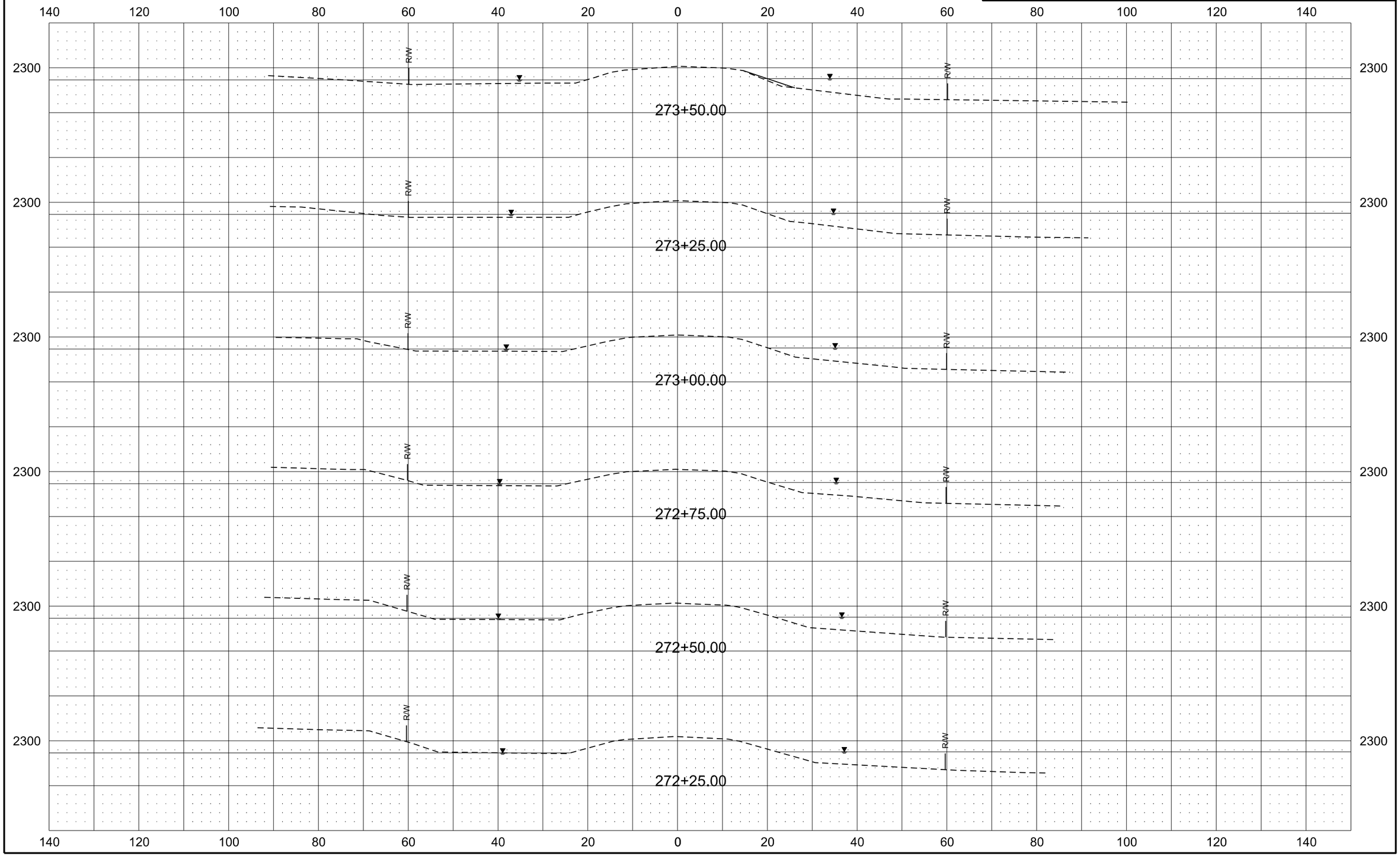
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	139



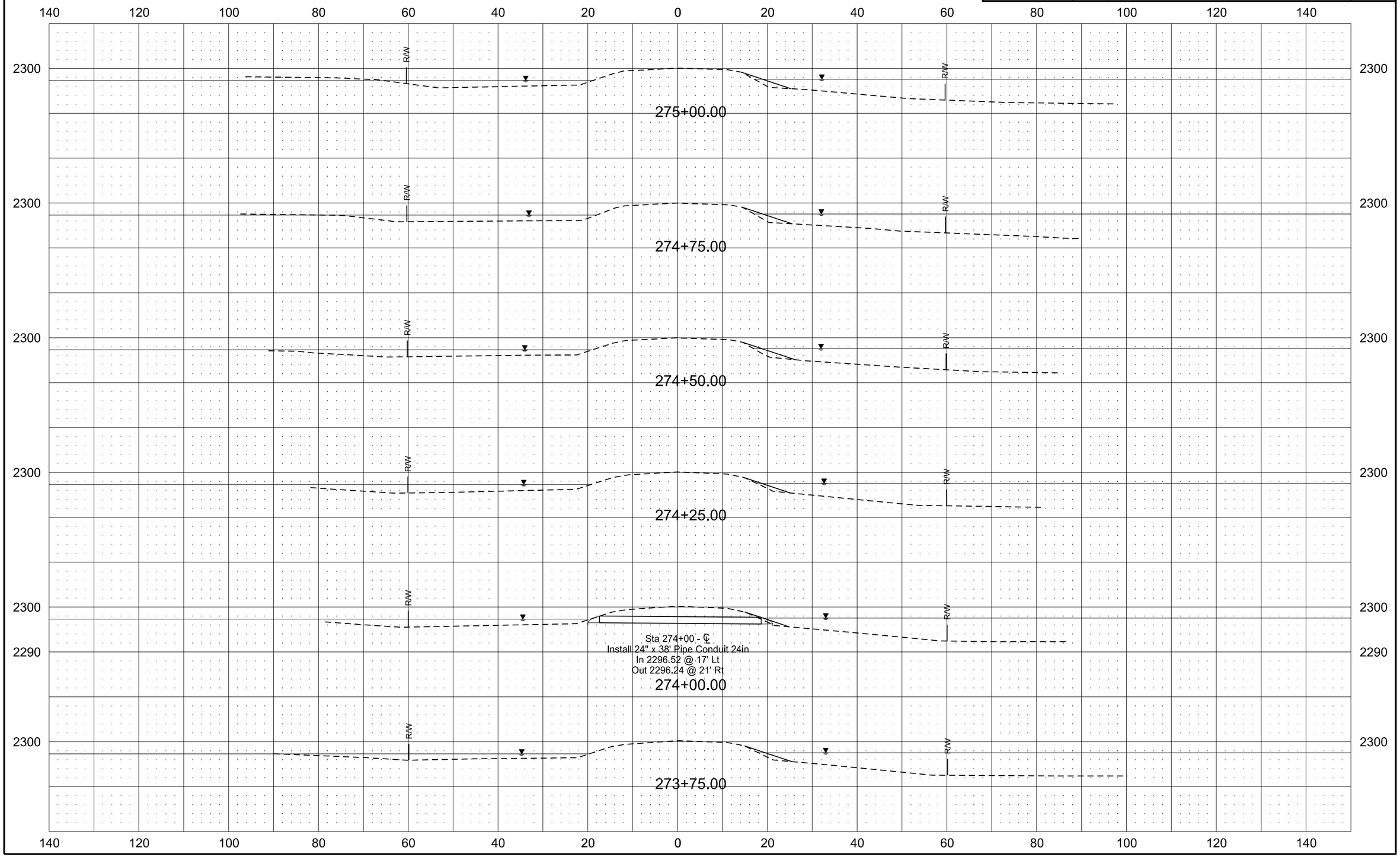
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	140



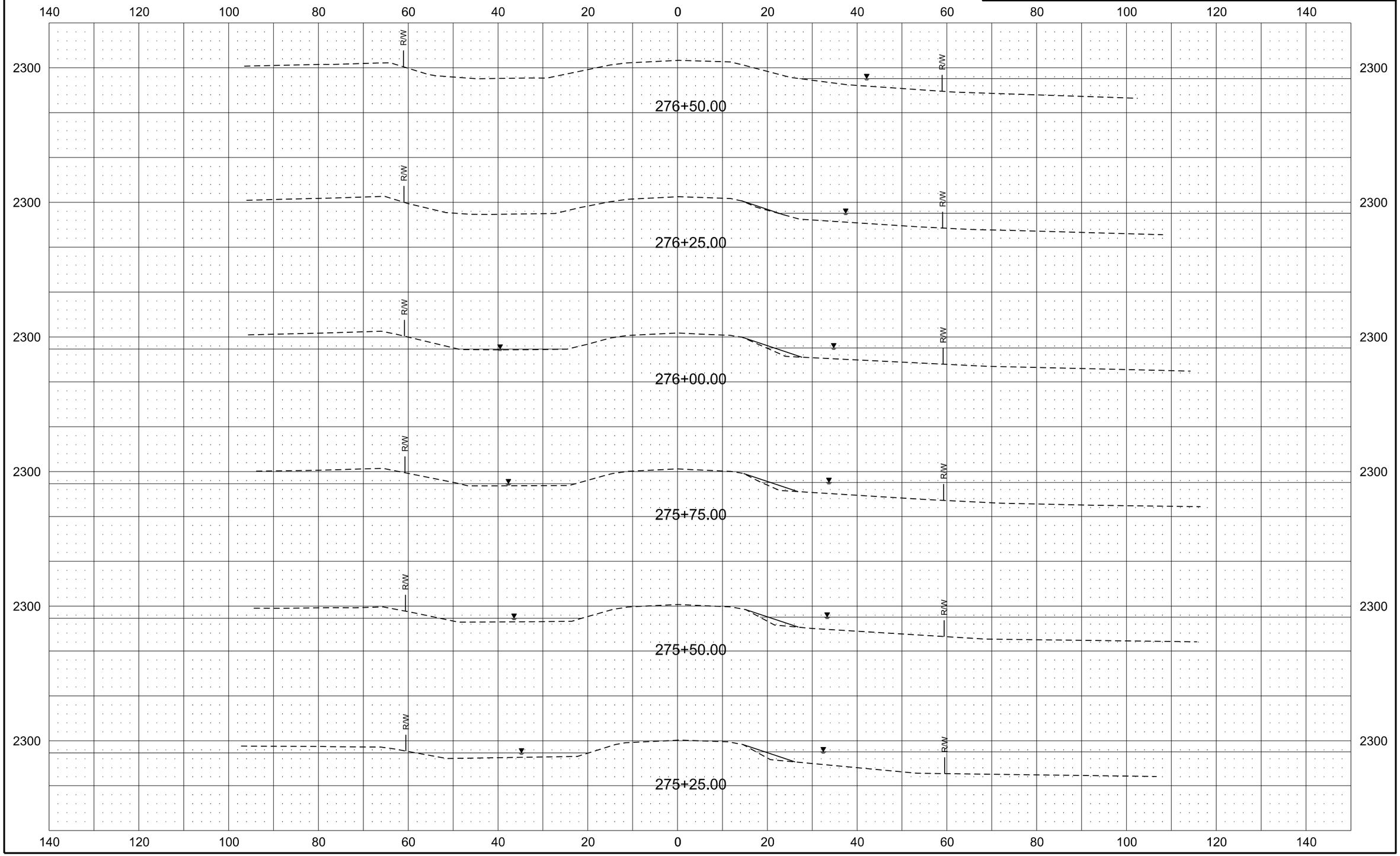
Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	141



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	142



Alignment K-7

Revised	10/16/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	ROM-0300(135)	200	143