North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

November 6, 2014

ADDENDUM 4 – JOB 19

TO: All prospective bidders on project NH-RSS-1-003(034)059, Job No. 19 scheduled for the November 14, 2014 bid opening.

The following plan and proposal revisions shall be made:

Plan Revisions:
See attached letter dated Nov 4, 2014 from William Doerr, P.E. – Brosz Engineering, Inc. for an explanation.

Request For Proposal Revisions:
Add SP 5014(14) Special Provision PERMITS AND ENVIRONMENTAL CONSIDERATIONS.

Remove and replace pages 7 through 13 of 15 of the Proposal Form pages located at the beginning of the Request For Proposal, with the enclosed pages revised 11/05/14.

Page 7 of 15:

Item 203 0101 COMMON EXCAVATION-TYPE A, quantity has decreased from 107,984 to 107,262 CY.

Item 203 0108 TOPSOIL-BORROW AREA, quantity increased from 31,149 to 31,269 CY.

Item 203 0109 TOPSOIL, quantity decreased from 83,871 to 83,125 CY.

Item 203 0121 TOPSOIL-WETLAND, quantity increased from 4,033 to 4,066 CY.

Item 203 0140 BORROW-EXCAVATION, quantity increased from 311,490 to 312,689 CY.

Page 8 of 15:

Item 216 0100 WATER, quantity increased from 7,323 to 7,328 MGAL.

Item 251 0200 SEEDING CLASS II, quantity decreased from 239 to 238 ACRE.

Item 251 2000 TEMPORARY COVER CROP, quantity decreased from 250 to 249 ACRE.

Item 253 0101 STRAW MULCH, quantity decreased from 500 to 498 ACRE.

Item 260 0200 SILT FENCE SUPPORTED, quantity increased from 45,850 to 46,180 LF.

Item 260 0201 REMOVE SILT FENCE SUPPORTED, quantity increased from 45,850 to 46,180 LF.

Page 9 of 15:

Item 261 0120 FIBER ROLLS 20IN, quantity increased from 53,365 to 53,460 LF.

Item 624 0123 PEDESTRIAN RAILING has been added, quantity 43 LF.

Pages 10 and 11 of 15:

Page has been revised due to shifting caused by added item.

Page 12 of 15:

Item 720 0110 RIGHT OF WAY MARKERS, quantity has increased from 207 to 218 EA.

Item 720 0130 IRON PIN R/W MONUMENTS, quantity increased from 86 to 99 EA.

Item 720 0135 IRON PIN REFERENCE MONUMENTS, quantity decreased from 130 to 128 EA.

Item 748 0140 CURB & GUTTER-TYPE I, quantity increased from 1,312 to 1,338 LF.

Item 748 0520 CURB-TYPE I, quantity decreased from 191 to 174 LF.

Item 748 1020 VALLEY GUTTER 36IN, quantity decreased from 142 to 136 SY.

Item 750 0100 SIDEWALK CONCRETE, quantity increased from 944 to 950 SY.

Item 750 2115 DETECTABLE WARNING PANELS, quantity increased from 70 to 108 SF.

Page 13 of 15:

Page has been revised due to shifting caused by added item.

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

Expedite bid files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at http://www.bidx.com/ or the Department's web page (http://www.dot.nd.gov) and load it into the Expedite program.

For

CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER
80:dch
Enclosure

109 S. Main • Box 357
Bowman, ND 58523
Ph: 701.523.3340
BROSZ ENGINEERING, INC.
ARCHITECTURE ENGINEERING SURVEYING

November 4, 2014

ADDENDUM 4
JOB NO. 19

TO: All prospective bidders and suppliers on Project NH-RSS-1-003(034)059, Job No. 19 in Logan and Kidder County, Schedule for the November 14, 2014 bid opening.

The following plan revisions shall be made:

Plan Revisions:

Remove and replace sheets 2-1, 6-4, 6-5, 6-6, 6-7, 6-8, 6-9, 8-1, 8-2, 8-3, 11-1, 11-2, 11-3, 11-4, 11-5, 11-6, 11-7, 11-8, 11-9, 11-10, 11-11, 11-12, 11-13, 11-14, 11-15, 11-16, 11-17, 11-18, 11-19, 11-20, 11-21, 11-22, 11-23, 60-2, 60-5, 60-6, 60-36, 60-40, 60-41, 60-42, 60-46, 60-62, 60-69, 60-70, 75-1, 75-3, 75-12, 75-18, 75-20, 75-21, 75-23, 75-30, 76-1, 76-3, 76-12, 76-18, 76-20, 76-21, 76-23, 76-30, 76-32, 76-33, 77-1, 77-3, 77-12, 77-18, 77-20, 77-21, 77-30, 77-32, 77-33, 77-34, 81-1, 81-2, 81-3, 81-4, 81-5, 200-11, 200-37, 200-38, 200-39, 200-298, 200-299, 200-300, 200-301, 200-340, 200-464 and 200-465 with the enclosed sheets revised 10/31/2014.

Add sheet 20-15 with the enclosed sheet added 10/31/2014.

Remove and replace sheets 90-1, 90-2, 90-3, 90-4 and 90-5 with the enclosed sheets revised 11/4/2014.

Section No. 2, Sheet No. 1:

- Added Section 20 Sheet 15 – Handrail Detail.

Section No. 6, Sheet No. 4, 5, 6, 7, 8, 9:

- Updated various wetland impacts and mitigation information.

Section No. 8, Sheet No. 1, 2, 3:

- 203 0101 COMMON EXCAVATION-TYPE A decreased from 107,984 to 107,262 CY.
- 203 0108 TOPSOIL-BORROW AREA increased from 31,149 to 31,269 CY.
- 203 1019 TOPSOIL decreased from 83,871 to 83,125 CY.
- 203 0121 TOPSOIL-WETLAND increased from 4,033 to 4,066 CY.
- 203 0140 BORROW-EXCAVATION increased from 311,490 to 312,689 CY.
- 216 0100 WATER increased from 7,323 to 7,328 MGAL.
- 251 0200 SEEDING CLASS II decreased from 239 to 238 ACRE.
- 251 2000 TEMPORARY COVER CROP decreased from 250 to 249 ACRE.
- 253 0101 STRAW MULCH decreased from 500 to 498 ACRE.
- 260 0200 SILT FENCE SUPPORTED increased from 45,850 to 46,180 LF.
- 260 0201 REMOVAL SILT FENCE SUPPORTED increased from 45,850 to 46,180 LF.
- 261 0120 FIBER ROLLS 20IN increased from 53,365 to 53,460 LF.

- 720 0110 ROW OF WAY MARKERS increased from 207 to 218 EA.
- 720 0130 IRON PIN R/W MONUMENTS increased from 86 to 99 EA.
- 720 0135 IRON PIN REFERENCE MONUMENTS decreased from 130 to 128 EA.
- 748 0520 CURB & GUTTER-TYPE 1 increased from 1,312 to 1,338 LF.
- 748 0520 CURB-TYPE 1 decreased from 191 to 174 LF.
- 748 1020 VALLEY GUTTER-36IN decreased from 142 to 136 SY.
- 750 0100 SIDEWALK CONCRETE increased from 944 to 950 SY.
- 750 2115 DETECTABLE WARNING PANEL increased from 70 to 108 SF.

Added the following bid item:

- 624 0123 PEDESTRIAN RAILING, 43 LF.

Section No. 11, Sheet No. 1:

- Updated the earthwork summary table with the updated values.

Section No. 11, Sheet No. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11:

- Updated the mass haul diagram and balance summaries.

Section No. 11, Sheet No. 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22:

- Updated the mass haul diagram and balance summaries.

Section No. 11, Sheet No. 23:

- Updated various monument and marker locations.

Section No. 20, Sheet No. 15:

- Added a detail drawing for the Pedestrian Railing.

Section No. 60, Sheet No. 2:

- Removed temporary easement at Station 3175+79 Rt.

Section No. 60, Sheet No. 5:

- Updated the Construction Limits.

Section No. 60, Sheet No. 6:

- Added Wetland 44.
- Updated the Construction Limits.

Section No. 60, Sheet No. 36, 40:

- Updated the Construction Limits.

Section No. 60, Sheet No. 41:

- Added Wetland 14-E.
- Updated the Construction Limits.

Section No. 60, Sheet No. 42:

- Updated Wetland 14-A.

Section No. 60, Sheet No. 46:

- Removed the temporary easement at Station 4040+08 Rt.

Section No. 60, Sheet No. 62:

- Updated the wetland areas.

Section No. 60, Sheet No. 69:

- Updated the layout of the curb and gutter and ramps.
- Added 43 LF of Pedestrian Railing.
- Added 26 LF of Curb and Gutter Type 1.
- Removed 17 LF of Curb Type 1.
- Removed 6 SY of 36" Valley Gutter.
- Added 6 SY of Sidewalk Concrete.
- Added 38 SF of Detectable Warning Panels.

Section No. 60, Sheet No. 70:

- Reconfigured the sidewalk layout at Station 4457+80 Lt. & Rt.

Section No. 75, Sheet No. 1:

- Removed the temporary easement at Station 3175+79 Rt.
- Updated Construction Limits.

Section No. 75, Sheet No. 3:

- Wetland 44 was added to sheet.
- Updated Construction Limits.

Section No. 75, Sheet No. 12:

- Wetland mitigation of 0.03 acres on Wetland 23-W was eliminated.

Section No. 75, Sheet No. 18:

- Wetland mitigation of 0.09 acres on Wetland 19-E was eliminated.
- Updated Construction Limits.

Section No. 75, Sheet No. 20:

- Updated Construction Limits.
- Wetland 14-E was added to the sheet along with impacts.
- Wetland Mitigation Lines were turned on.

Section No. 75, Sheet No. 21:

- Wetland 14-A was updated along with the impacts and hatching.

Section No. 75, Sheet No. 23:

- Removed the temporary easement at Station 4040+08 Rt.
- Updated Construction Limits.

Section No. 75, Sheet No. 30:

- Wetland Impacts were revised.

Section No. 76, Sheet No. 1:

- Removed the temporary easement at Station 3175+79 Rt.
- Updated Construction Limits.
- Updated Seeding area.

Section No. 76, Sheet No. 3:

- Wetland 44 was added to the sheet.
- Updated Construction Limits.

- Updated Seeding Boundary.

Section No. 76, Sheet No. 12:

- Wetland mitigation of 0.03 acres on Wetland 23-W was eliminated.
- Updated Seeding Area.
- Updated Construction Limits.

Section No. 76, Sheet No. 18:

- Wetland mitigation of 0.09 acres on Wetland 19-E was eliminated.
- Updated Seeding Area.
- Updated Construction Limits.

Section No. 76, Sheet No. 20:

- Updated the temporary seeding & temporary mulch boundary.
- Increased Silt Fence Supported Quantity at Station 3929+20 Rt. from 270 LF to 600 LF.
- Increased Removal Silt Fence Supported Quantity from 3,205 LF to 3,535 LF.
- Updated the Construction Limits.
- Added Wetland 14-E to the sheet.

Section No. 76, Sheet No. 21:

- Wetland 14-A was updated.

Section No. 76, Sheet No. 23:

- Removed the temporary easement at Station 4040+08 Rt.
- Updated construction limits.
- Updated Seeding area.

Section No. 76, Sheet No. 30:

- Wetlands were revised.

Section No. 76, Sheet No. 32:

- Updated Seeding Quantities.

Section No. 76, Sheet No. 33:

- Updated Silt Fence table.
- Updated Silt Fence quantity and silt fence removal quantity.

Section No. 77, Sheet No. 1:

- Removed the temporary easement at Station 3175+79 Rt.
- Updated Construction Limits.
- Updated seeding area.

Section No. 77, Sheet No. 3:

- Added Wetland 44.
- Updated Construction Limits.
- Updated Seeding Boundary.

Section No. 77, Sheet No. 12:

- Wetland mitigation of 0.03 acres on Wetland 23-W was eliminated.
- Updated Seeding Area.
- Updated Construction Limits.

Section No. 77, Sheet No. 18:

- Wetland mitigation of 0.09 acres on Wetland 19-E was eliminated.
- Updated Seeding Area.
- Updated Construction Limits.

Section No. 77, Sheet No. 20:

- Updated the permanent seeding & the permanent mulch boundary.
- Increased Quantity of Fiber Rolls 20IN at Station 3930+25 Rt. from 510 LF to 605 LF.
- Updated Seeding Area.
- Updated Construction Limits.
- Added Wetland 14-E.

Section No. 77, Sheet No. 21:

- Updated Wetland 14-A.

Section No. 77, Sheet No. 23:

- Removed the temporary easement at Station 4040+08 Rt.
- Updated Construction Limits.
- Updated Seeding area.

Section No. 77, Sheet No. 30:

- Revised wetlands.

Section No. 77, Sheet No. 32:

- Updated seeding quantities.

Section No. 77, Sheet No. 33, 34:

- Updated 20IN fiber rolls quantity.

Section No. 81, Sheet No. 1, 2, 3, 4, 5:

- Made minor revisions to the alignment sheets, mainly due to rounding.

Section No. 90, Sheet No. 1:

- Changed the layout at Locations 3, 4, 5 8 & 9.

Section No. 90, Sheet No. 2:

- Changed the layout at Location 3.

Section No. 90, Sheet No. 3:

- Changed the layout at Location 4.

Section No. 90, Sheet No. 4:

- Changed the layout at Location 5.

Section No. 90, Sheet No. 5:

- Changed the layout at Locations 8 & 9.

Section No. 200, Sheet No. 11:

- Updated cross section at Station 3175+79.

Section No. 200, Sheet No. 37, 38, 39:

- Deleted mitigation at Wetland 30-E.

Section No. 200, Sheet No. 298, 299, 300, 301:

- Deleted mitigation at Wetlands 15 & 40.

Section No. 200, Sheet No. 340:

- Updated cross section at Station 4040+08.

Section No. 200, Sheet No. 464, 465:

- Moved station text so it wouldn't overlap with wetland elevations.

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

Sincerely,

William Doerr, PE
Project Engineer

Project: NH-RSS-1-003(034)059 (PCN-17707)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	107	0100	RAILWAY PROTECTION INSURANCE	L SUM	1.				
003	201	0390	REMOVAL OF TREES 30IN	EA	2.				
004	202	0112	REMOVAL OF CONCRETE	SY	838.				
005	202	0119	SAW CONCRETE	LF	54.				
006	202	0121	REMOVE & SALVAGE BITUMINOUS SURFACING	TON	9,734.				
007	202	0153	SAW BITUMINOUS SURFACING-FULL DEPTH	LF	290.				
008	202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES	EA	24.				
009	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	4,107.				
010	203	0101	COMMON EXCAVATION-TYPE A	CY	107,262.				
011	203	0108	TOPSOIL-BORROW AREA	CY	31,269.				
012	203	0109	TOPSOIL	CY	83,125.				
013	203	0121	TOPSOIL-WETLAND	CY	4,066.				
014	203	0138	COMMON EXCAVATION-SUBCUT	CY	1,111.				
015	203	0140	BORROW-EXCAVATION	CY	312,689.				
016	203	0204	FLATTEN DITCH BLOCK SLOPES	EA	36.				

BID ITEMS

Project: NH-RSS-1-003(034)059 (PCN-17707)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
017	210	0111	CLASS 2 EXCAVATION	L SUM	1.				
018	210	0201	FOUNDATION PREPARATION	EA	1.				
019	210	0210	FOUNDATION FILL	CY	20.				
020	216	0100	WATER	M GAL	7,328.				
021	230	0107	RESHAPING DITCH	MILE	.220				
022	251	0100	SEEDING CLASS I	ACRE	1.				
023	251	0200	SEEDING CLASS II	ACRE	238.				
024	251	1000	WETLAND SEED	ACRE	10.				
025	251	2000	TEMPORARY COVER CROP	ACRE	249.				
026	253	0101	STRAW MULCH	ACRE	498.				
027	255	0103	ECB TYPE 3	SY	1,484.				
028	255	0300	CONCRETE EROSION CONTROL BLANKET	SY	3,911.				
029	256	0200	RIPRAP GRADE II	CY	4,964.				
030	260	0200	SILT FENCE SUPPORTED	LF	46,180.				
031	260	0201	REMOVE SILT FENCE SUPPORTED	LF	46,180.				
032	261	0112	FIBER ROLLS 12IN	LF	18,405.				

Project: NH-RSS-1-003(034)059 (PCN-17707)

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
033	261	0113	REMOVE FIBER ROLLS 12IN	LF	9,210.				
034	261	0120	FIBER ROLLS 20IN	LF	53,460.				
035	262	0100	FLOTATION SILT CURTAIN	LF	5,765.				
036	262	0101	REMOVE FLOTATION SILT CURTAIN	LF	5,765.				
037	302	0115	AGGREGATE BASE COURSE CL 4	TON	10,116.				
038	302	0120	AGGREGATE BASE COURSE CL 5	TON	131,304.				
039	401	0050	TACK COAT	GAL	40,983.				
040	411	0105	MILLING PAVEMENT SURFACE	SY	4,783.				
041	430	0042	SUPERPAVE FAA 42	TON	89,479.				
042	430	1000	CORED SAMPLE	EA	562.				
043	430	5828	PG 58-28 ASPHALT CEMENT	TON	5,276.				
044	602	1130	CLASS AE-3 CONCRETE	CY	1.100				
045	624	0123	PEDESTRIAN RAILING	LF	43.				
046	702	0100	MOBILIZATION	L SUM	1.				
047	704	0100	FLAGGING	MHR	6,000.				
048	704	1000	TRAFFIC CONTROL SIGNS	UNIT	3,764.				

BID ITEMS

Project: NH-RSS-1-003(034)059 (PCN-17707)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
049	704	1052	TYPE III BARRICADE	EA	14.				
050	704	1060	DELINEATOR DRUMS	EA	21.				
051	704	1065	TRAFFIC CONES	EA	30.				
052	704	1067	TUBULAR MARKERS	EA	200.				
053	704	1080	STACKABLE VERTICAL PANELS	EA	1,000.				
054	704	1081	VERTICAL PANELS-BACK TO BACK	EA	40.				
055	704	1185	PILOT CAR	HR	3,000.				
056	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	120.				
057	706	0550	BITUMINOUS LABORATORY	EA	1.				
058	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
059	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	4,328.				
060	709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	12,551.				
061	714	0615	PIPE CONC REINF 24IN CL III	LF	492.				
062	714	0820	PIPE CONC REINF 30IN CL III	LF	276.				
063	714	0905	PIPE CONC REINF 36IN CL III	LF	176.				
064	714	1005	PIPE CONC REINF 42IN CL III	LF	14.				

Project: NH-RSS-1-003(034)059 (PCN-17707)

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
065	714	3023	END SECT-TRAVERSABLE REINF. CONC.24IN	EA	6.				
066	714	3033	END SECT-TRAVERSABLE REINF. CONC.30IN	EA	9.				
067	714	3036	END SECT-TRAVERSABLE REINF. CONC.36IN	EA	3.				
068	714	4099	PIPE CONDUIT 18IN-APPROACH	LF	2,504.				
069	714	4105	PIPE CONDUIT 24IN	LF	56.				
070	714	4106	PIPE CONDUIT 24IN-APPROACH	LF	1,566.				
071	714	4110	PIPE CONDUIT 30IN	LF	70.				
072	714	4113	PIPE CONDUIT 30IN-APPROACH	LF	1,604.				
073	714	4115	PIPE CONDUIT 36IN	LF	62.				
074	714	4116	PIPE CONDUIT 36IN-APPROACH	LF	108.				
075	714	5128	PIPE CORR STEEL .064IN ARCH 35IN X 24IN	LF	108.				
076	714	5133	PIPE CORR STEEL .064IN ARCH 42IN X 29IN	LF	108.				
077	714	9200	CATTLE PASS CONC INTERMED SECTION	LF	48.				
078	714	9601	REMOVE & RELAY CONC CATTLE PASS	LF	42.				
079	714	9611	REMOVE & RELAY CONC CATTLE PASS END SECTION	EA	5.				
080	714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	78.				

Project: NH-RSS-1-003(034)059 (PCN-17707)

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
081	720	0110	RIGHT OF WAY MARKERS	EA	218.				
082	720	0125	ALIGNMENT MONUMENTS	EA	80.				
083	720	0130	IRON PIN R/W MONUMENTS	EA	99.				
084	720	0135	IRON PIN REFERENCE MONUMENTS	EA	128.				
085	722	6200	ADJUST MANHOLE	EA	1.				
086	748	0140	CURB & GUTTER-TYPE I	LF	1,338.				
087	748	0520	CURB-TYPE I	LF	174.				
088	748	1020	VALLEY GUTTER 36IN	SY	136.				
089	750	0100	SIDEWALK CONCRETE	SY	950.				
090	750	1000	DRIVEWAY CONCRETE	SY	32.				
091	750	1021	DRIVEWAY CONCRETE 8IN REINFORCED	SY	70.				
092	750	2115	DETECTABLE WARNING PANELS	SF	108.				
093	752	0922	FENCE REMOVE & RESET	LF	491.				
094	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	550.				
095	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	222.				
096	754	0195	DIAMOND GRADE DELINEATORS-TYPE A	EA	40.				

BID ITEMS

Project: NH-RSS-1-003(034)059 (PCN-17707)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
097	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	2,009.				
098	754	0562	REFERENCE MARKER-TYPE B	EA	25.				
099	754	0592	RESET SIGN PANEL	EA	28.				
100	754	0805	OBJECT MARKERS - CULVERTS	EA	292.				
101	760	0005	RUMBLE STRIPS - ASPHALT SHOULDER	MILE	47.500				
102	760	0007	RUMBLE STRIPS - ASPHALT CENTERLINE	MILE	23.700				
103	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	469,463.				
104	762	1104	PVMT MK PAINTED 4IN LINE	LF	117,366.				
105	762	1106	PVMT MK PAINTED 6IN LINE	LF	165.				
106	762	1124	PVMT MK PAINTED 24IN LINE	LF	36.				
107	762	1140	PVMT MK PAINTED CURB TOP & FACE	LF	225.				
108	766	0100	MAILBOX-ALL TYPES	EA	35.				
			TOTAL SUM BID						

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

PERMITS AND ENVIRONMENTAL CONSIDERATIONS

PROJECT NUMBER: NH-RSS-1-003(034)059 – PCN 17707

This Special Provision incorporates US Army Corps of Engineers (USACE) Section 404 Permit obtained by the North Dakota Department of Transportation (NDDOT). The proposed project includes roadway widening, correcting superelevations, grade raise, culvert extensions, culvert replacements, and riprap installation.

The Contractor shall be responsible for complying with all the terms and conditions as contained in the permit(s) attached hereto. Bidders shall become familiar with all standard conditions and special conditions of the permit(s) and submit their bid for the construction of this project based on the following:

- **Section 404 Permit**
  The USACE Section 404 Permit number NWO-2010-01527-BIS authorizes impacts associated with roadway widening, grade raise, culvert extensions, culvert replacements, and riprap placement. The Section 404 Permit authorizes 1.42 acres of permanent jurisdictional wetland impacts and 1.90 acres of temporary jurisdictional wetland impacts. The temporary impacts were assumed by the designer to account for construction activities.

  See the Section 6 Environmental Commitments Sheets and Section 75 sheets of the design plans for the authorized impact footprint areas. The Section 404 Permit is attached.

The contractor shall be responsible for obtaining permits for impacts not authorized by the attached Permits obtained by the NDDOT.

Corps of Engineers Nationwide Permit (NWP) Verification

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION (ND DOT) PROJECTS
REQUEST FOR NWP DETERMINATION(S)

IMPACTED WATER RESOURCE NUMBER	PCN (DOT generated) HWY/Road Number	TYPE AND DIMENSIONS OF EXISTING STRUCTURE	ACTIVITY	STREAM IMPACTS BELOW OHWM (linear feet)			WETLAND IMPACTS (acres)		LOCATION LAT/LONG (NAD 83)		SEC-TWP-RGE, COUNTY	COE ID NUMBER (to be filled by COE)	NWP #
				TEMP (LF)	PERM (LF)	PERM (acre)	TEMP (acre)	PERM (acre)	LAT	LONG			
4a	17707 / ND3	N/A	Roadway Widening, Conc. ECB, Riprap				0.16	0.05	46.843763 N	-99.749759 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4b	17707 / ND3	Roadbed Structure Within Alkaline Lake	Roadway Widening, Conc. ECB, Riprap				0.01	0.02	46.842541 N	-99.750000W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4d	17707 / ND3	Roadbed Structure Within Alkaline Lake	Roadway Widening, Conc. ECB, Riprap				0.01	0.01	46.839564 N	-99.749075 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4f	17707 / ND3	Roadbed Structure Within Alkaline Lake	Roadway Widening, Riprap				0.02	0.01	46.840133 N	-99.749025 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4g	17707 / ND3	N/A	Roadway Widening, Riprap				0.02	0.01	46.842382 N	-99.749166 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4h	17707 / ND3	15"x42' RCP	Roadway Widening				0.03	0.17	46.843494 N	-99.749467 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4i	17707 / ND3	N/A	Roadway Widening, Riprap				0.02	0.02	46.839652 N	-99.749534 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4j	17707 / ND3	36"x52' RCP, Roadbed Structure Within Alkaline Lake	Roadway Widening, 18' Pipe Extension, Conc. ECB, Riprap				0.19	0.45	46.840133 N	-99.749025 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4k	17707 / ND3	Roadbed Structure Within Alkaline Lake	Roadway Widening, Riprap				0.06	0.06	46.842409 N	-99.749189 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4l	17707 / ND3	N/A	Roadway Widening				0.04	0.01	46.842905 N	-99.749254 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4m	17707 / ND3	Roadbed Structure Within Alkaline Lake	Roadway Widening, Conc. ECB, Riprap				0.05	0.02	46.842299 N	-99.749346 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
4n	17707 / ND3	N/A	Roadway Widening				0.01	0.15	46.842830 N	-99.749395 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23

7-W	17707 / ND3	Double 7'x4'x88' RCB	Roadway Widening				0.02	0.00	46.811296 N	-99.761958 W	Sec. 34, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
8-W	17707 / ND3	76' RC Cattle Pass	Roadway Widening				0.01	0.01	46.798318 N	-99.759233 W	Sec. 3, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
8-E	17707 / ND3	76' RC Cattle Pass	Roadway Widening				0.01	0.02	46.798130 N	-99.758833 W	Sec. 3, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
8.5	17707 / ND3	84' RC Cattle Pass	Roadway Widening				0.01	0.00	46.802015 N	-99.756367 W	Sec. 3, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
9	17707 / ND3	24"x60' RCP	Roadway Widening, 30" x 70' Pipe, Riprap				0.01	0.01	46.785544 N	-99.764540 W	Sec. 9, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
14-A	17707 / ND3	30"x48' RCP 30"x48' RCP 2-30"x39'CMP	Roadway Widening, 10' & 8' Pipe Extension, 24"x54' Pipe, Riprap				0.36	0.11	46.738516 N	-99.764644 W	Sec. 28, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
14-B	17707 / ND3	2-30"x39'CMP 24"x46' CMP	Roadway Widening, 24"x54' Pipe, 36"x54' Pipe, ECB				0.13	0.06	46.735094 N	-99.764655 W	Sec. 28, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
14-C	17707 / ND3	24"x46' CMP	Roadway Widening, 36"x54' Pipe				0.23	0.03	46.733309 N	-99.764709 W	Sec. 33, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
14-D	17707 / ND3	18"x44' CMP 30"x48' RCP	Roadway Widening, 8' Pipe Extension				0.37	0.09	46.740435 N	-99.764262 W	Sec. 27, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
14-E	17707 / ND3	N/A	Roadway Widening				0.02	0.01	46.736679 N	-99.764286 W	Sec. 27/34, T138N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
43	17707 / ND3	24"x72' RCP 18"x49' CMP	Roadway Widening, 4' Pipe Extension, 24"x74' Pipe				0.11	0.10	46.791959 W	-99.763926 W	Sec. 3/10, T136N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
OW 4-W	17707 / ND3	36"x58' RCP 36"x52' RCP	Roadway Widening, 16' & 18' Pipe Extensions				0.18	0.11	46.843763 N	-99.749603 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23
OW 4-E	17707 / ND3	36"x58' RCP	Roadway Widening, 20' Pipe Extension				0.01	0.01	46.841522 N	-99.749152 W	Sec. 22, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23

OW 7-E	17707 / ND3	Double 7'x4'x88' RCB	Roadway Widening				0.01	0.01	46.811576 N	-99.760949 W	Sec. 34, T139N, R72W KIDDER COUNTY	NWO-2010-1527-BIS	23

The U.S. Army Corps of Engineers verifies that the requested activity(s) meet the criteria of the listed NWPs.

Signed: Daniel B. Cunningham 5 Nov 14 North Dakota Regulatory Office

Verification Date: November 5, 2014 Expiration Date: March 18, 2017

This NWP verification is subject to the activity meeting all General and Regional Conditions applicable to the 2012 NWPs reissuance. For this authorization to remain valid, you must meet all Regional and General Conditions and Section 401 Water Quality Certification Requirements, identified in the applicable Nationwide Permit Fact Sheet. All Fact Sheets and Section 401 Water Quality Certification Requirements are provided on the North Dakota Regulatory Office's website at https://www.nwo.usace.army.mil/html/od-rnd/factsheet.htm.

****Project Compliance Certification.** In compliance with General Condition 26, you are required to submit the following project compliance certification within thirty (30) days of project completion. [**Please check all applicable statements**]

[ ] I certify that I have completed the project as permitted.
[ ] I certify that I have completed a modified version of the project.
[ ] I certify that I have completed all required mitigation.

Permittee's Signature:_____ **Date:**_____

**** Special Conditions.**

a. *You shall carry out wetland mitigation and monitoring in accordance with the submitted "Compensatory Wetland Mitigation Plan; Hwy 3 from Napoleon to Dawson; October 22, 2014".*
b. *Mitigation must be constructed prior to, or concurrent with project construction.*
c. *By reference, these requirements become special conditions of this Nationwide Permit verification.*

FACT SHEET
NATIONWIDE PERMIT 23
(2012)

APPROVED CATEGORICAL EXCLUSIONS.

Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where:

(a) That agency or department has determined, pursuant to the Council on Environmental Quality's implementing regulations for the National Environmental Policy Act (40 CFR part 1500 et seq.), that the activity is categorically excluded from environmental documentation, because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment; and

(b) The Office of the Chief of Engineers (Attn: CECW-CO) has concurred with that agency's or department's determination that the activity is categorically excluded and approved the activity for authorization under NWP 23.

The Office of the Chief of Engineers may require additional conditions, including pre-construction notification, for authorization of an agency's categorical exclusions under this NWP. (Sections 10 and 404)

Notification: Certain categorical exclusions approved for authorization under this NWP require the permittee to submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 31). The activities that require pre-construction notification are listed in the appropriate Regulatory Guidance Letters.

Nationwide Permit General Conditions

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those

species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed

activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.noaa.gov/fisheries.html respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer

shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. <u>Discovery of Previously Unknown Remains and Artifacts</u>. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. <u>Designated Critical Resource Waters</u>. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the

designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of

the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

_____

(Transferee)

_____

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification—(a) *Timing.* Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the

PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either: (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or (2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition
20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) *Contents of Pre-Construction Notification:* The PCN must be in writing and include the following information: (1) Name, address and telephone numbers of the prospective permittee; (2) Location of the proposed project; (3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans); (4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the

delineation has been submitted to or completed by the Corps, as appropriate; (5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan. (6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and (7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act. (c) *Form of Pre-Construction Notification:* The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used. (d) *Agency Coordination:* (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level. (2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via email, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the preconstruction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section

305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of preconstruction notifications to expedite agency coordination.

Further Information

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.

2012 Nationwide Permits
Regional Conditions
Omaha District
State of North Dakota

The following Nationwide Permit regional conditions will be used in the State of North Dakota. Regional conditions are placed on Nationwide Permits to ensure projects result in less than minimal adverse impacts to the aquatic environment and to address local resources concerns.

Wetlands Classified as Peatlands – Revoked for Use

All Nationwide Permits, with the exception of 3, 5, 20, 32, 38 and 45, are revoked for use in peatlands in North Dakota.

Peatlands are saturated and inundated wetlands where conditions inhibit organic matter decomposition and allow for the accumulation of peat. Under cool, anaerobic, and acidic conditions, the rate of organic matter accumulation exceeds organic decay. Peatlands can be primarily classified into ombrotrophic bogs and minerotrophic fens; the latter subdivided into poor, moderate-rich, and extreme-rich fens, each with distinctive indicator species, community physiognomy, acidity, alkalinity, and base cation content.

Wetlands Classified as Peatlands – Pre-construction Notification Requirement

For Nationwide Permits 3, 5, 20, 32, 38, and 45 permittees must notify the Corps in accordance with General Condition 31 (Notification) prior to initiating any regulated activity impacting peatlands in North Dakota.

Waters Adjacent to Natural Springs – Pre-construction Notification Requirement

For all Nationwide Permits permittees must notify the Corps in accordance with General Condition No. 31 (Notification) for regulated activities located within 100 feet of the water source in natural spring areas in North Dakota. For purposes of this condition, a spring source is defined as any location where there is artesian flow emanating from a distinct point at any time during the growing season. Springs do not include seeps and other groundwater discharge areas where there is no distinct point source.

Missouri River, including Lake Sakakawea and Lake Oahe within the State of North Dakota – Pre-construction Notification Requirement

For all Nationwide Permits permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity in the Missouri River, including Lake Sakakawea and Lake Oahe, within the State of North Dakota.

Borrow Site Identification – All Nationwide Permits

The permittee is responsible for ensuring that the Corps is notified of the location of any borrow site that will be used in conjunction with the construction of the authorized activity so that the Corps may evaluate the site for potential impacts to aquatic resources, historic properties, and endangered species. For projects where there is another lead Federal agency, the permittee shall provide the Corps documentation indicating that the lead Federal agency has complied with the National Historic Preservation Act and Endangered Species Act for the borrow site. The permittee shall not initiate work at the borrow site in conjunction with the authorized activity until approval is received from the Corps.

Counter-sinking Culverts and Associated Riprap – All Nationwide Permits

That culverts and riprap proposed to be installed within waters of the United States listed as Class III or higher on the 1978 Stream Evaluation Map for the State of North Dakota shall be installed one foot below the natural streambed. The 1978 Stream Evaluation Map for the State of North Dakota can be accessed on the North Dakota Regulatory Office's website at: http://www.nwo.usace.army.mil/html/od-rnd/ndhome.htm.

REGIONAL CONDITIONS APPLICABLE TO SPECIFIC NATIONWIDE PERMITS

Nationwide Permit 7 – Outfall Structures and Associated Intake Structures and Nationwide Permit 12 – Utility Line Activities

Intake Structures - Intake screens with a maximum mesh opening of 1/4-inch must be provided, inspected annually, and maintained. Wire, Johnson-like, screens must have a maximum distance between wires of 1/8-inch. Water velocity at the intake screen shall not exceed ½-foot per second.

Pumping plant sound levels will not exceed 75 dB at 50 feet.

Intakes located in Lake Sakakawea, above river mile 1519, are subject to the following conditions:

- The intakes shall be floating.
- At the beginning of the pumping season, the intake shall be placed over water with a minimum depth of 20 feet.
- If the 20-foot depth is not attainable, then the intake shall be located over the deepest water available.
- If the water depth falls below six feet, the intake shall be moved to deeper water or the maximum intake velocity shall be limited to ¼ foot per second.

Intakes located in Lake Sakakawea, below river mile 1519, and in the Missouri River below Garrison Dam are subject to the following conditions:

- The intakes shall be submerged.
- At the beginning of the pumping season, the intake will be placed at least 20 vertical feet below the existing water level.
- The intake shall be elevated 2 to 4 feet off the bottom of the river or reservoir bed.
- If the 20-foot depth is not attainable, then the intake velocity shall be limited to ¼-foot per second with the intake placed at the maximum practicable attainable depth.

Nationwide Permit 11 – Temporary Recreational Structures - Boat Docks

a. If future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

b. No boat dock shall be located on a sandbar or barren sand feature located in or along the banks of the Missouri River.

c. The farthest point riverward on the dock located on the Missouri River proper shall not exceed a total length of 30 feet from the ordinary high water line found along the high bank out into the River. Information Note: Issuance of this permit does not supersede authorization required by the North Dakota State Engineer's Office.

d. Any boat dock located on the Missouri River shall be anchored to the top of the high bank.

e. Any boat dock located within an excavated bay or marina off the main river channel may be anchored to the bay or marina bottom with spuds.

Nationwide Permit 13 - Bank Stabilization

Permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity within the State of North Dakota.

Nationwide Permit 23 - Approved Categorical Exclusions

Permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity within the State of North Dakota. In addition to information required by General Condition 31, permittees must identify the approved categorical exclusion that applies and provide documentation that the project fits the categorical exclusion.

Nationwide Permit 27 - Aquatic Habitat Restoration, Establishment and Enhancement Activities

Permittees must notify the Corps in accordance with General Condition No. 31 (Notification) prior to initiating any regulated activity within the State of North Dakota.

GENERAL CONDITIONS (REGIONAL ADDITIONS)

General Condition 3- Spawning Areas

No regulated activity within waters of the United States listed as Class III or higher on the 1978 Stream Evaluation Map for the State of North Dakota or on the North Dakota Game and Fish Department's website as a North Dakota Public Fishing Water shall occur between 15 April and 1 June. No regulated activity within the Red River of the North shall occur between 15 April and 1 July. North Dakota Public Fishing Waters can be accessed at: http://gf.nd.gov/fishing/nd-fish-wat.html. The 1978 Stream Evaluation Map for the State of North Dakota can be accessed on the North Dakota Regulatory Office's website at: http://www.nwo.usace.army.mil/html/od-rnd/ndhome.htm.

General Condition 6 – Suitable Material

Permittees are reminded that General Condition No. 6 prohibits the use of unsuitable material. In addition, organic debris, some building waste, and materials excessive in fines are not suitable material. Specific verbiage on prohibited materials can be accessed on the North Dakota Regulatory Office's website at: http://www.nwo.usace.army.mil/html/od-rnd/ndhome.htm.

General Condition 9 - Management of Water Flows

Permittees are reminded that water flow management addressed in General Condition 9 is applicable to all aspects of a permitted project, including temporary features.

General Condition 31 – Pre-construction Notification

Prospective permittees should be aware that a **field delineation** may be required for applications where notification is required in accordance with General Condition 31 and/or mitigation may be required. The Corps 1987 Wetland Delineation Manual and applicable Regional Supplements to the Manual can be accessed on the North Dakota Regulatory Office's website at: http://www.nwo.usace.army.mil/html/od-rnd/ndhome.htm.

NORTH DAKOTA
DEPARTMENT of HEALTH

ENVIRONMENTAL HEALTH SECTION
Gold Seal Center, 918 E. Divide Ave.
Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov

Construction and Environmental Disturbance Requirements

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

Soils

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

Surface Waters

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

Fill Material

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.

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SP 27(14)	Concrete Erosion Control Blanket
SP 5014(14)	Permits and Environmental Considerations

ENVIRONMENTAL COMMITMENTS

ENVIRONMENTAL COMMITMENTS (EC): The North Dakota Department of Transportation and the Federal Highway Administration have made environmental commitments to secure approval of this project. The environmental commitments are as follows:

EC-1: Unavoidable impacts to wetlands will be mitigated onsite, adjacent to the project, or at a NDDOT approved mitigation site or bank.

ACTION REQUIRED /TAKEN: 0.71 acres of permanent impacts to jurisdictional waters and 3.25 acres of permanent impacts to *natural/non-jurisdictional* wetlands will require mitigation. The NDDOT proposes to mitigate 0.71 acres onsite and 3.25 at FHWA EO 11990 Mitigation Bank Vollrath 16/17.

Wetland Impact Table

Wetland Number	Location	Cowardin Class.	Wetland Type	Wetland Size Ac.	Wetland Feature	USACE Jurisdictional Wetlands*	Wetland Impacts (acres)		USFWS Easement Impacts		Wetland Mitigation				
											Mitigation Required			Location; Acreage; Wetland#; Ratio	Onsite Mitigation Acres
							Temp. Ac.	Perm. Ac.	Temp.	Perm.	EO 11990	USACE	USFWS		
1	Sec. 10, T139N, R72W	PEMCx	Ditch	0.01	Artificial	No	0.00	0.00			No	No	No	None	
2-E	Sec. 15, T139N, R72W	PEMC	Basin	0.33	Natural	No	0.08	0.04			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.04 Acres (1:1)	
2-W	Sec. 15, T139N, R72W	PEMC	Basin	0.46	Natural	No	0.09	0.03			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.03 Acres (1:1)	
4a	Sec. 22, T139N, R72W	PEMCx	Ditch	0.29	Artificial	Yes	0.16	0.05			No	Yes	No	Onsite: 0.05 Acres will be Mitigated at WL4h at a 1:1 Ratio	
4b**	Sec. 22, T139N, R72W	PEMCx	Ditch	0.05	Artificial	Yes	0.01	0.02			No	No	No	None	
4c	Sec. 22, T139N, R72W	PEMC	Fringe	0.17	Natural	Yes	0.00	0.00			No	No	No	None	
4d**	Sec. 22, T139N, R72W	PEMC	Fringe	0.61	Artificial	Yes	0.01	0.01			No	No	No	None	
4f**	Sec. 22, T139N, R72W	PEMC	Fringe	0.08	Artificial	Yes	0.02	0.01			No	No	No	None	
4g	Sec. 22, T139N, R72W	PEMC	Fringe	0.19	Natural	Yes	0.02	0.01			Yes	Yes	No	Onsite: 0.01 Acres will be Mitigated at WL 4h at a 1:1 Ratio	
4h	Sec. 22, T139N, R72W	PEMCx	Ditch	0.20	Artificial	Yes	0.03	0.17			No	Yes	No	Onsite: 0.17 Acres will be Mitigated at WL 14-D at a 1:1 Ratio	0.09
4i	Sec. 22, T139N, R72W	PEMC	Fringe	0.10	Natural	Yes	0.02	0.02			Yes	Yes	No	Onsite: 0.02 Acres will be Mitigated at WL 4h at a 1:1 Ratio	
4j**	Sec. 22, T139N, R72W	PEMC	Fringe	0.84	Artificial	Yes	0.19	0.45			No	No	No	None	
4k**	Sec. 22, T139N, R72W	PEMC	Fringe	0.34	Artificial	Yes	0.06	0.06			No	No	No	None	

ENVIRONMENTAL COMMITMENTS

Wetland Impact Table

Wetland Number	Location	Cowardin Class.	Wetland Type	Wetland Size Ac.	Wetland Feature	USACE Jurisdictional Wetlands*	Wetland Impacts (acres)		USFWS Easement Impacts		Wetland Mitigation				
											Mitigation Required			Location; Acreage; Wetland#; Ratio	Onsite Mitigation Acres
							Temp. Ac.	Perm. Ac.	Temp.	Perm.	EO 11990	USACE	USFWS		
4l	Sec. 22, T139N, R72W	PEMC	Fringe	0.26	Natural	Yes	0.04	0.01			Yes	Yes	No	Onsite: 0.01 Acres will be Mitigated at WL 4h at a 1:1 Ratio	
4m**	Sec. 22, T139N, R72W	PEMCx	Ditch	0.07	Artificial	Yes	0.05	0.02			No	No	No		
4n	Sec. 22, T139N, R72W	PEMCx	Ditch	0.18	Artificial	Yes	0.01	0.15			No	Yes	No	Onsite: 0.15 Acres will be Mitigated at WL 4n at a 1:1 Ratio	0.15
5	Sec. 22, T139N, R72 W	PEMCx	Ditch	0.06	Artificial	No	0.05	0.02			No	No	No	None	
6	Sec. 27, T139N, R72 W	PEMCx	Ditch	0.12	Artificial	No	0.03	0.01			No	No	No	None	
7-W	Sec. 34, T139N, R72 W	PEMC	Basin	10.70	Natural	Yes	0.02	0.00			No	No	No	None	
8-W	Sec. 3, T138N, R72 W	PEMC	Slope	0.04	Natural	Yes	0.01	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
8-E	Sec. 3, T138N, R72 W	PEMC	Slope	0.05	Natural	Yes	0.01	0.02			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.02 Acres (1:1)	
8.5	Sec. 3, T138N, R72 W	PEMA	Basin	0.19	Natural	Yes	0.01	0.00			No	No	No	None	
9	Sec. 9, T138N, R72 W	PEMC	Slope	0.04	Natural	Yes	0.01	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
10-W	Sec. 9, T138N, R72 W	PEMC	Slope/Basin	0.45	Natural	No	0.12	0.03			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.03 Acres (1:1)	
10-E	Sec. 10, T138N, R72 W	PEMCx	Ditch	0.22	Artificial	No	0.07	0.04			No	No	No	None	
11-W	Sec. 9, T138N, R72 W	PEMC	Basin	0.41	Natural	No	0.06	0.04			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.04 Acres (1:1)	
11-E	Sec. 10, T138N, R72 W	PEMC	Basin	0.12	Natural	No	0.04	0.03			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.03 Acres (1:1)	
12	Sec. 16, T138N, R72 W	PEMCx	Ditch	0.07	Artificial	No	0.02	0.00			No	No	No	None	
13	Sec. 16, T138N, R72 W	PEMCx	Ditch	0.13	Artificial	No	0.06	0.01			No	No	No	None	

ENVIRONMENTAL COMMITMENTS

Wetland Impact Table

Wetland Number	Location	Cowardin Class.	Wetland Type	Wetland Size Ac.	Wetland Feature	USACE Jurisdictional Wetlands*	Wetland Impacts (acres)		USFWS Easement Impacts		Wetland Mitigation				
											Mitigation Required			Location; Acreage; Wetland#; Ratio	Onsite Mitigation Acres
							Temp. Ac.	Perm. Ac.	Temp.	Perm.	EO 11990	USACE	USFWS		
14-A	Sec. 28, T138N, R72 W	PEMC	Slope/Basin	1.32	Natural	Yes	0.36	0.11			Yes	Yes	No	Onsite: 0.11 Acres will be Mitigated at WL 14-C at a 1:1 Ratio	
14-B	Sec. 28, T138N, R72 W	PEMC	Slope/Basin	0.46	Natural	Yes	0.13	0.06			Yes	Yes	No	Onsite: 0.06 Acres will be Mitigated at WL 14-C at a 1:1 Ratio	
14-C	Sec. 33, T138N, R72 W	PEMC	Slope	0.27	Natural	Yes	0.23	0.03			Yes	Yes	No	Onsite: 0.03 Acres will be Mitigated at WL 14-C at a 1:1 Ratio	0.21
14-D	Sec. 27, T138N, R72 W	PEMC	Slope	0.51	Natural	Yes	0.37	0.09			Yes	Yes	No	Onsite: 0.09 Acres will be Mitigated at WL 14-D at a 1:1 Ratio	0.26
14-E	Sec.27/34, T138N, R72 W	PEMCx	Ditch	0.87	Artificial	Yes	0.02	0.01			No	Yes	No	Onsite: 0.01 Acres will be Mitigated at WL 14-C at a 1:1 Ratio	
15	Sec. 33, T138N, R72 W	PEMA	Slope/Basin	0.31	Natural	No	0.27	0.04			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.04 Acres (1:1)	
16	Sec. 33, T138N, R72 W	PEMC	Basin	0.46	Natural	No	0.02	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
17-W	Sec. 4, T137N, R72 W	PEMC	Basin	0.10	Natural	No	0.00	0.00			No	No	No	None	
17-E	Sec. 3, T137N, R72 W	PEMCx	Ditch	0.02	Artificial	No	0.02	0.01			No	No	No	None	
18	Sec. 4, T137N, R72 W	PEMC	Basin	0.34	Natural	No	0.04	0.00			No	No	No	None	
19-W	Sec. 3, T137N, R72 W	PEMA	Basin	0.35	Natural	No	0.05	0.02			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.02 Acres (1:1)	
19-E	Sec. 3, T137N, R72 W	PEMAx	Ditch	0.14	Artificial	No	0.07	0.02			No	No	No	None	
20	Sec. 9, T137N, R72 W	PEMA	Basin	0.31	Natural	No	0.01	0.00			No	No	No	None	
21-NW	Sec. 16, T137N, R72W	PEMC	Basin	1.45	Natural	No	0.01	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
21-SW	Sec. 21, T137N, R72W	PEMC	Basin	2.38	Natural	No	0.02	0.02			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.02 Acres (1:1)	
21-SE	Sec. 22, T137N, R72W	PEMC	Basin	2.18	Natural	No	0.00	0.00			No	No	No	None	

ENVIRONMENTAL COMMITMENTS

Wetland Impact Table

Wetland Number	Location	Cowardin Class.	Wetland Type	Wetland Size Ac.	Wetland Feature	USACE Jurisdictional Wetlands*	Wetland Impacts (acres)		USFWS Easement Impacts		Wetland Mitigation				
											Mitigation Required			Location; Acreage; Wetland#; Ratio	Onsite Mitigation Acres
							Temp. Ac.	Perm. Ac.	Temp.	Perm.	EO 11990	USACE	USFWS		
21-NE	Sec. 15, T137N, R72W	PEMC	Basin	0.81	Natural	No	0.00	0.00			No	No	No	None	
22	Sec. 28, T137N, R72W	PEMC	Basin	0.29	Natural	No	0.00	0.00			No	No	No	None	
23 W	Sec. 33, T137N, R72W	PEMC	Basin	1.69	Natural	No	0.30	0.35			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.35 Acres (1:1)	
23 E	Sec. 34, T137N, R72W	PEMC	Basin	1.35	Natural	No	0.18	0.35			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.35 Acres (1:1)	
24 W	Sec. 33, T137N, R72W	PEMC	Basin	1.72	Natural	No	0.22	1.17			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 1.17 Acres (1:1)	
24 E	Sec. 34, T137N, R72W	PEMC	Basin	1.15	Natural	No	0.15	0.58			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.58 Acres (1:1)	
25	Sec. 5, T136N, R72W	PEMC	Basin	0.87	Natural	No	0.12	0.18			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.18 Acres (1:1)	
26	Sec. 5, T136N, R72W	PEMAx	Ditch	0.12	Artificial	No	0.00	0.00			No	No	No	None	
27	Sec. 7, T136N, R72W	PEMC	Basin	0.14	Natural	No	0.00	0.00			No	No	No	None	
28-W	Sec. 17, T136N, R72W	PEMC	Basin	1.18	Natural	No	0.11	0.10			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.10 Acres (1:1)	
28-E	Sec. 18, T136N, R72W	PEMC	Basin	1.06	Natural	No	0.07	0.06			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.06 Acres (1:1)	
29	Sec. 18, T136N, R72W	PEMA	Basin	0.15	Natural	No	0.00	0.00			No	No	No	None	
30-W	Sec. 6, T135N, R72W	PEMA	Basin	0.64	Natural	No	0.05	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
30-E	Sec. 5, T135N, R72W	PEMA	Basin	0.35	Natural	No	0.20	0.15			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.15 Acres (1:1)	
31	Sec. 6, T135N, R72W	PEMC	Basin	0.39	Natural	No	0.03	0.00			No	No	No	None	
32	Sec. 32, T136N, R72W	PEMA	Basin	0.11	Natural	No	0.02	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	

ENVIRONMENTAL COMMITMENTS

Wetland Impact Table

Wetland Number	Location	Cowardin Class.	Wetland Type	Wetland Size Ac.	Wetland Feature	USACE Jurisdictional Wetlands*	Wetland Impacts (acres)		USFWS Easement Impacts		Wetland Mitigation				
											Mitigation Required			Location; Acreage; Wetland#; Ratio	Onsite Mitigation Acres
							Temp. Ac.	Perm. Ac.	Temp.	Perm.	EO 11990	USACE	USFWS		
33	Sec. 18, T136N, R72W	PEMCx	Ditch	0.08	Artificial	No	0.02	0.04			No	No	No	None	
34	Sec. 8, T136N, R72W	PEMC	Basin	0.30	Natural	No	0.01	0.00			No	No	No	None	
35	Sec. 15, T137N, R72W	PEMC	Basin	0.13	Natural	No	0.01	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
36	Sec. 10, T137N, R72W	PEMC	Basin	0.10	Natural	No	0.01	0.00			No	No	No	None	
37	Sec. 3, T137N, R72 W	PEMAx	Ditch	0.11	Artificial	No	0.00	0.00			No	No	No	None	
38	Sec. 34, T138N, R72 W	PEMAx	Ditch	0.12	Artificial	No	0.01	0.00			No	No	No	None	
39	Sec. 34, T138N, R72 W	PEMF	Basin	0.41	Natural	No	0.06	0.01			Yes	No	No	11990 NDDOT Bank Vollrath 16/17 0.01 Acres (1:1)	
40	Sec. 34, T138N, R72 W	PEMAx	Ditch	0.13	Artificial	No	0.11	0.02			No	No	No	None	
41	Sec. 27, T138N, R72 W	PEMCx	Ditch	0.01	Artificial	No	0.01	0.01			No	No	No	None	
42	Sec. 10, T138N, R72 W	PEMCx	Ditch	0.71	Artificial	No	0.25	0.06			No	No	No	None	
43	Sec. 3/10, T136N, R72 W	PEMCx	Ditch	0.25	Artificial	Yes	0.11	0.10			No	No	No	None	
44	Sec. 5, T135N, R72 W	PEMAx	Ditch	0.05	Artificial	Yes***	0.00	0.00			No	No	No	None	
			Totals	**42.67**			**4.97**	**4.91**	**0.00**	**0.00**					**0.71**

All impacts to natural w etlands (natural/jurisdictional and natural/non-jurisdictional), regardless of size, as w ell as impacts greater than 0.10 acre to artificial/jurisdictional w etlands require mitigation.

All artificial/non-jurisdictional, deep w ater (impacts greater than 6.6 feet), Other Waters less than 300 linear feet (determined by the USACE on a case by case), Preamble Wetlands, and temporary impacts do not require mitigation.

* A w etland Jurisdictional Determination w as issued by the USACE on 08/10/2010; NWO-2010-01527-BIS.

** Wetlands are considered part of roadbed structure for Section 404 Permitting Purposes. Current w etland on landscape w as split using NWI original Lake boundary.

***USACE Jurisdiction presumed for permitting purposes.

ENVIRONMENTAL COMMITMENTS

Other Waters Impact Table

Other Waters											Other Water Mitigation				
			Size			USACE Jurisdictional *	Impacts to Other Waters				Mitigation Required				
							Acres		Linear Feet						
Number	Location	Type	Acres	Linear Feet	Feature		Temp	Perm	Temp	Perm	EO 11990	USACE	USFWS	Location	Method
OW 4-W	Sec. 22, T139N, R72 W	Alkaline Lake	0.81	908.01	Natural	Yes	0.18	0.11	1050.00	898.00	No	No	No	None	
OW 4-E	Sec. 22, T139N, R72 W	Alkaline Lake	0.41	567.83	Natural	Yes	0.01	0.01	1798.00	1788.00	No	No	No	None	
OW 7-E	Sec. 34, T139N, R72W	Lake Isabel	0.65	1092.42	Natural	Yes	0.01	0.01	60.00	28.00	No	No	No	None	
		Totals	**1.87**	**2568.26**			**0.20**	**0.13**	**2908.00**	**2714.00**					

* A wetland Jurisdictional Determination was issued by the USACE on 08/10/2010; NWO-2010-01527-BIS.

Summary Impact Table

Total Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	Total (Acres)	Wetland Type	Total (Acres/Lf)
Natural/JD	0.37	Temporary JD	1.90
Natural/Non-JD	3.25	Non-JD Temporary	3.07
Artificial/JD	1.05	Permanent JD > 0.10	0.88
Artificial /Non-JD	0.24	Permanent OW	0.13 ac/2714 ft.
Total	4.91	Temporary OW	0.20 ac/2908 ft

Compensation Requirements by Agency and Water Type

Water Type	USACE Mitigation	EO 11990 Mitigation
Natural/JD Wetland	> 0.1acre	All
Natural/Non-JD Wetland	No mitigation required	All
Artificial/JD Wetland	> 0.1acre	No mitigation required
Artificial/Non-JD Wetland	No mitigation required	No mitigation required
Deep Water (> than 6.6 feet)	No mitigation required	No mitigation required
Other Water	> 300 linear feet	No mitigation required
Preamble	No mitigation required	No mitigation required

EC-2: The Contractor shall prevent the introduction of ANS into North Dakota waters, or transport of aquatic vegetation to or from any waters of the state, or transport of any aquatic vegetation into the state.

ACTION TAKEN/REQUIRED: The contractor shall follow the North Dakota Game and Fish Department's (NDGFD) Administrative Rules 30-3-06 for compliance with ND Century Code Chapter 20.1-17 on Aquatic Nuisance Species (ANS). Contractor shall notify the NDGFD at least 72 hours prior to the placement IN or ON the waters of the State of North Dakota of any and all vehicles, vessels, pumps and equipment that will be used in the project, to allow the Department sufficient time to inspect any and all such equipment for ANS. The NDGFD ANS Coordinator, Fred Ryckman, shall be contacted by phone (701.770.0920) or e-mail fryckman@nd.gov for equipment inspections, or any additional information regarding ANS prevention protocol.

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	ND	NH-RSS-1-003(034)059	8	1

ESTIMATE OF QUANTITIES

SPEC	CODE	ITEM DESCRIPTION	UNIT	MAINLINE	CPM	TOTAL
103	0100	CONTRACT BOND	L SUM	1		1
107	0100	RAILWAY PROTECTION INSURANCE	L SUM	1		1
201	0390	REMOVAL OF TREES 30IN	EA	2		2
202	0112	REMOVAL OF CONCRETE	SY		838	838
202	0119	SAW CONCRETE	LF		54	54
202	0121	REMOVE & SALVAGE BITUMINOUS SURFACING	TON	9,734		9,734
202	0153	SAW BITUMINOUS SURFACING-FULL DEPTH	LF	290		290
202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES	EA	24		24
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	4,107		4,107
203	0101	COMMON EXCAVATION-TYPE A	CY	107,262		107,262
203	0108	TOPSOIL-BORROW AREA	CY	31,269		31,269
203	0109	TOPSOIL	CY	83,125		83,125
203	0121	TOPSOIL-WETLAND	CY	4,066		4,066
203	0138	COMMON EXCAVATION-SUBCUT	CY	1,111		1,111
203	0140	BORROW-EXCAVATION	CY	312,689		312,689
203	0204	FLATTEN DITCH BLOCK SLOPES	EA	36		36
210	0111	CLASS 2 EXCAVATION	LSUM	1		1
210	0201	FOUNDATION PREPARATION	EA	1		1
210	0210	FOUNDATION FILL	CY	20		20
216	0100	WATER	M GAL	7,328		7,328
230	0107	RESHAPING DITCH	MILE	0.22		0.22
251	0100	SEEDING CLASS I	ACRE	1		1
251	0200	SEEDING CLASS II	ACRE	238		238
251	1000	WETLAND SEED	ACRE	10		10
251	2000	TEMPORARY COVER CROP	ACRE	249		249
253	0101	STRAW MULCH	ACRE	498		498
255	0103	ECB TYPE 3	SY	1,484		1,484
255	0300	CONCRETE EROSION CONTROL BLANKET	SY	3,911		3,911
256	0200	RIPRAP GRADE II	CY	4,964		4,964
260	0200	SILT FENCE SUPPORTED	LF	46,180		46,180
260	0201	REMOVAL SILT FENCE SUPPORTED	LF	46,180		46,180
261	0112	FIBER ROLLS 12IN	LF	18,405		18,405
261	0113	REMOVAL FIBER ROLLS 12IN	LF	9,210		9,210
261	0120	FIBER ROLLS 20IN	LF	53,460		53,460
262	0100	FLOTATION SILT CURTAIN	LF	5,765		5,765
262	0101	REMOVAL FLOTATION SILT CURTAIN	LF	5,765		5,765
302	0115	AGGREGATE BASE COURSE CL 4	TON	10,116		10,116
302	0120	AGGREGATE BASE COURSE CL 5	TON	131,031	273	131,304
401	0050	TACK COAT	GAL	40,983		40,983
411	0105	MILLING PAVEMENT SURFACE	SY	4,783		4,783
430	0042	SUPERPAVE FAA 42	TON	89,479		89,479
430	5828	PG 58-28 ASPHALT CEMENT	TON	5,276		5,276
430	1000	CORED SAMPLE	EA	562		562
602	1130	CLASS AE-3 CONCRETE	CY	1.1		1.1
624	0123	PEDESTRIAN RAILING	LF	43		43
702	0100	MOBILIZATION	L SUM	1		1
704	0100	FLAGGING	MHR	6,000		6,000

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ESTIMATE OF QUANTITIES

SPEC	CODE	ITEM DESCRIPTION	UNIT	MAINLINE	CPM	TOTAL
704	1000	TRAFFIC CONTROL SIGNS	UNIT	3,764		3,764
704	1052	TYPE III BARRICADE	EA	14		14
704	1060	DELINEATOR DRUMS	EA	21		21
704	1065	TRAFFIC CONES	EA	30		30
704	1067	TUBULAR MARKERS	EA	200		200
704	1080	STACKABLE VERTICAL PANELS	EA	1,000		1,000
704	1081	VERTICAL PANELS-BACK TO BACK	EA	40		40
704	1185	PILOT CAR	HR	3,000		3,000
704	1500	OBLITERATION OF PVMT MK	SF	120		120
706	0550	BITUMINOUS LABORATORY	EA	1		1
706	0600	CONTRACTOR'S LABORATORY	EA	1		1
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	4,328		4,328
709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	12,551		12,551
714	0615	PIPE CONC REINF 24IN CL III	LF	492		492
714	0820	PIPE CONC REINF 30IN CL III	LF	276		276
714	0905	PIPE CONC REINF 36IN CL III	LF	176		176
714	1005	PIPE CONC REINF 42IN CL III	LF	14		14
714	3023	END SECT-TRAVERSABLE REINF. CONC.24IN	EA	6		6
714	3033	END SECT-TRAVERSABLE REINF. CONC.30IN	EA	9		9
714	3036	END SECT-TRAVERSABLE REINF. CONC.36IN	EA	3		3
714	4099	PIPE CONDUIT 18IN-APPROACH	LF	2,504		2,504
714	4105	PIPE CONDUIT 24IN	LF	56		56
714	4106	PIPE CONDUIT 24IN-APPROACH	LF	1,566		1,566
714	4110	PIPE CONDUIT 30IN	LF	70		70
714	4113	PIPE CONDUIT 30IN-APPROACH	LF	1,604		1,604
714	4115	PIPE CONDUIT 36IN	LF	62		62
714	4116	PIPE CONDUIT 36IN-APPROACH	LF	108		108
714	5128	PIPE CORR STEEL .064IN ARCH 35IN X 24IN	LF	108		108
714	5133	PIPE CORR STEEL .064IN ARCH 42IN X 29IN	LF	108		108
714	9200	CATTLE PASS CONC INTERMED SECTION	LF	48		48
714	9601	REMOVE & RELAY CONC CATTLE PASS	LF	42		42
714	9611	REMOVE & RELAY CONC CATTLE PASS END SECTION	EA	5		5
714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	78		78
720	0110	RIGHT OF WAY MARKERS	EA	218		218
720	0125	ALIGNMENT MONUMENTS	EA	80		80
720	0130	IRON PIN R/W MONUMENTS	EA	99		99
720	0135	IRON PIN REFERENCE MONUMENTS	EA	128		128
722	6200	ADJUST MANHOLE	EA	1		1
748	0140	CURB & GUTTER-TYPE 1	LF		1,338	1,338
748	0520	CURB-TYPE 1	LF		174	174
748	1020	VALLEY GUTTER-36IN	SY		136	136
750	0100	SIDEWALK CONCRETE	SY		950	950
750	1000	DRIVEWAY CONCRETE	SY		32	32
750	1021	DRIVEWAY CONCRETE 8IN REINFORCED	SY		70	70
750	2115	DETECTABLE WARNING PANEL	SF	108		108
752	0922	FENCE REMOVE & RESET	LF	491		491
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	LF	550		550
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	LF	222		222

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ESTIMATE OF QUANTITIES

SPEC	CODE	ITEM DESCRIPTION	UNIT	MAINLINE	CPM	TOTAL
754	0195	DIAMOND GRADE DELINEATORS-TYPE A	EA	40		40
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	2,009		2,009
754	0562	REFERENCE MARKER-TYPE B	EA	25		25
754	0592	RESET SIGN PANEL	EA	28		28
754	0805	OBJECT MARKERS - CULVERTS	EA	292		292
760	0005	RUMBLE STRIPS - ASPHALT SHOULDER	MILE	47.5		47.5
760	0007	RUMBLE STRIPS - ASPHALT CENTERLINE	MILE	23.7		23.7
762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	469,463		469,463
762	1104	PVMT MK PAINTED 4IN LINE	LF	117,366		117,366
762	1106	PVMT MK PAINTED 6IN LINE	LF	165		165
762	1124	PVMT MK PAINTED 24IN LINE	LF	36		36
762	1140	PVMT MK PAINTED CURB TOP & FACE	LF	225		225
766	0100	MAILBOX - ALL TYPES	EA	35		35

Alignment	Common Excavation Type A (CY) Pay Item	Embankment (CY)	Borrow Excavation (CY) Pay Item	Topsoil (CY) Pay Item
Logan County ND 3 Mainline	43,549	123,856	80,000	29,597
Kidder County ND 3 Mainline	63,713	296,104	232,689	57,594
Totals=	**107,262**	**419,960**	**312,689**	**87,191**

Note: 25 percent additional volume is included for shrinkage in earth embankment.

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Earthwork Summary

ND 3

Jct 34 N to I-94 Dawson

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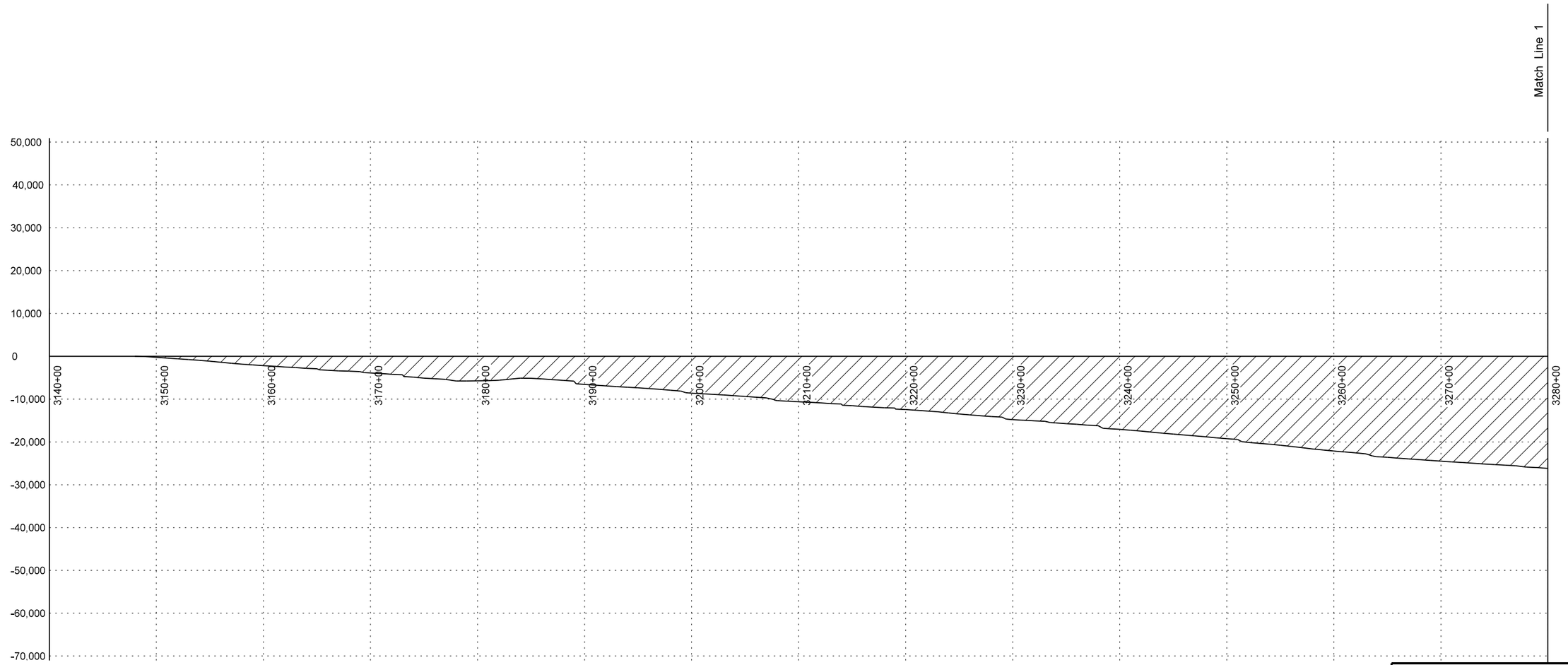
	ND	NH-RSS-1-003(034)059	11	2



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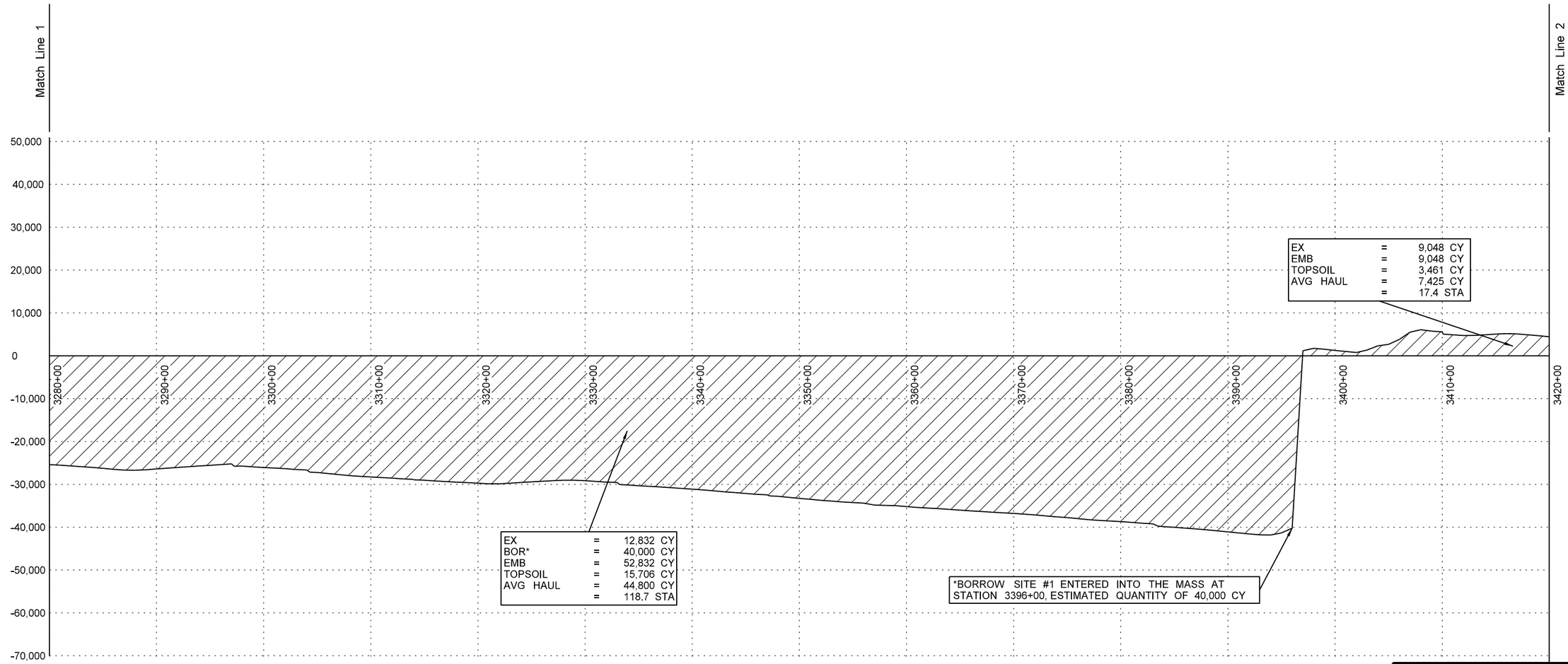
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	3



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Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

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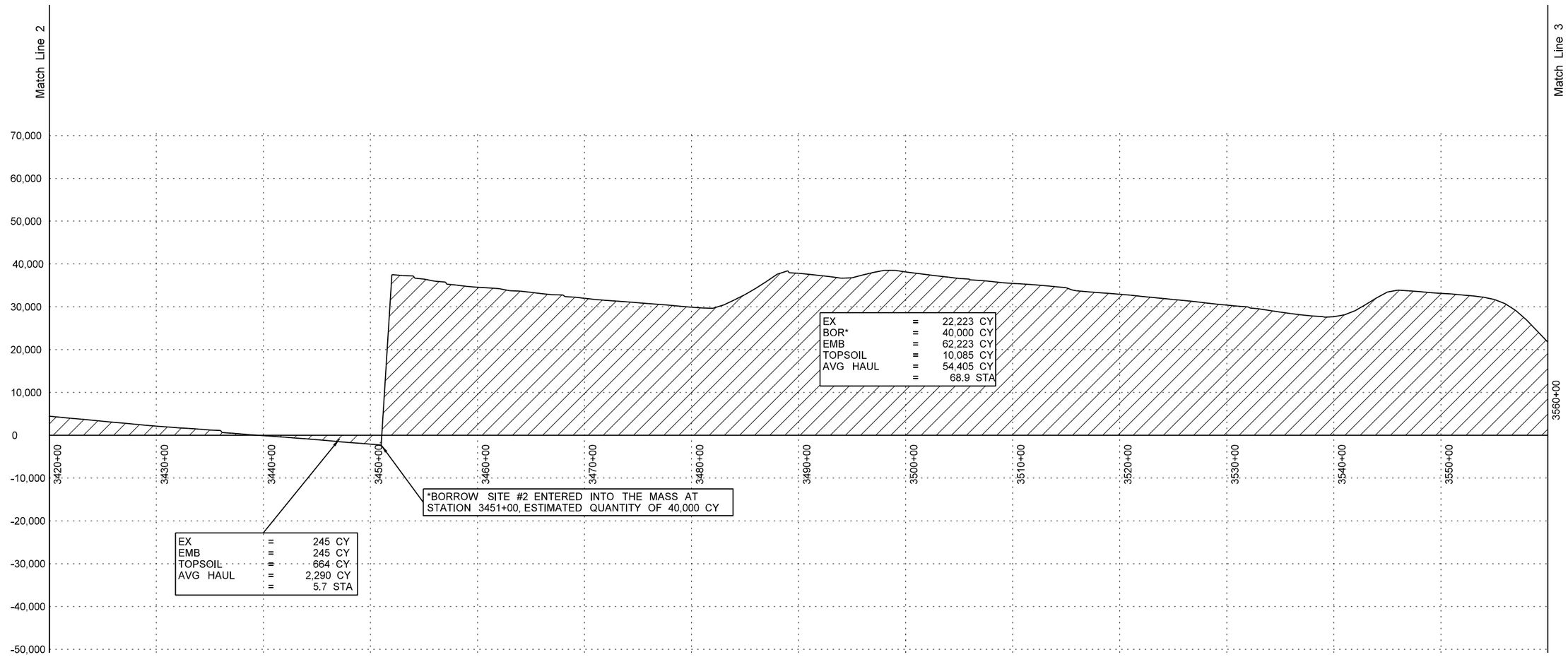
	ND	NH-RSS-1-003(034)059	11	4



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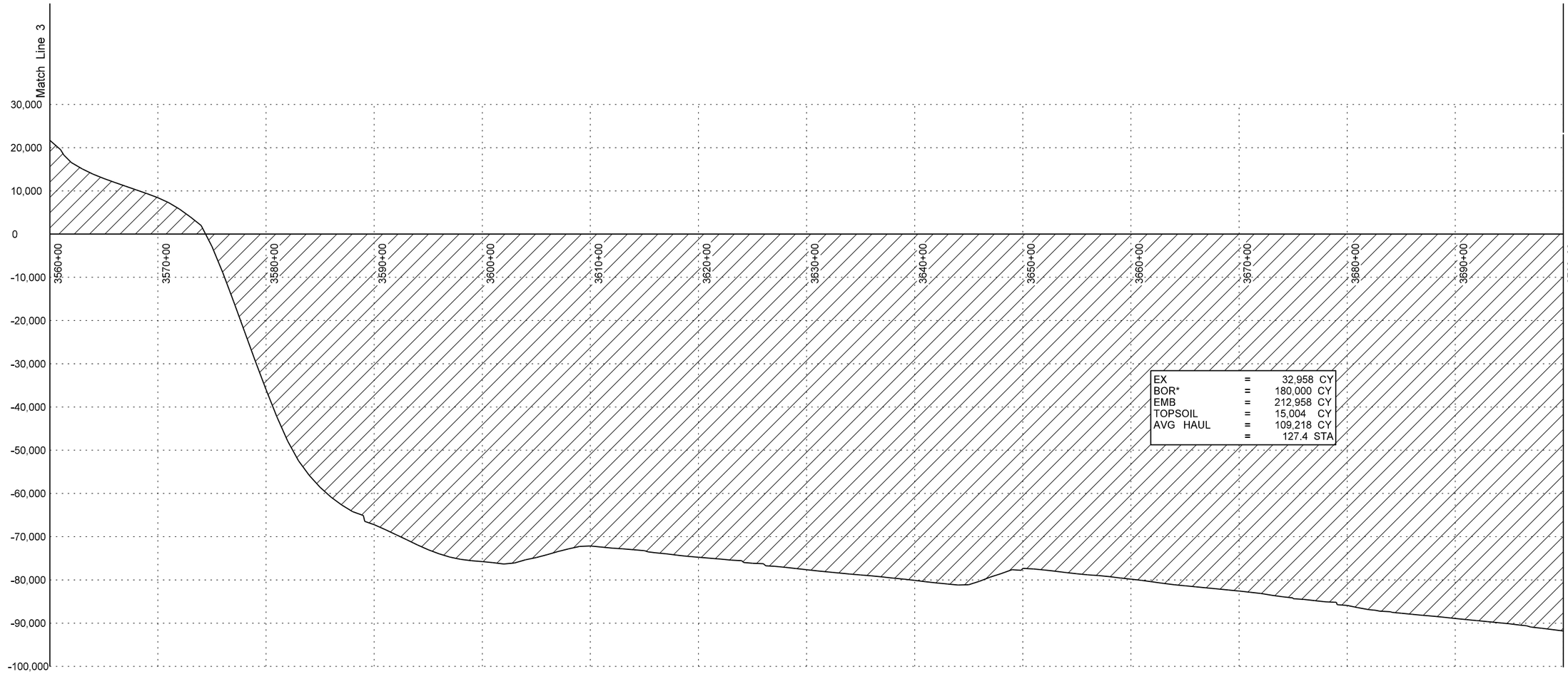
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	5



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Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

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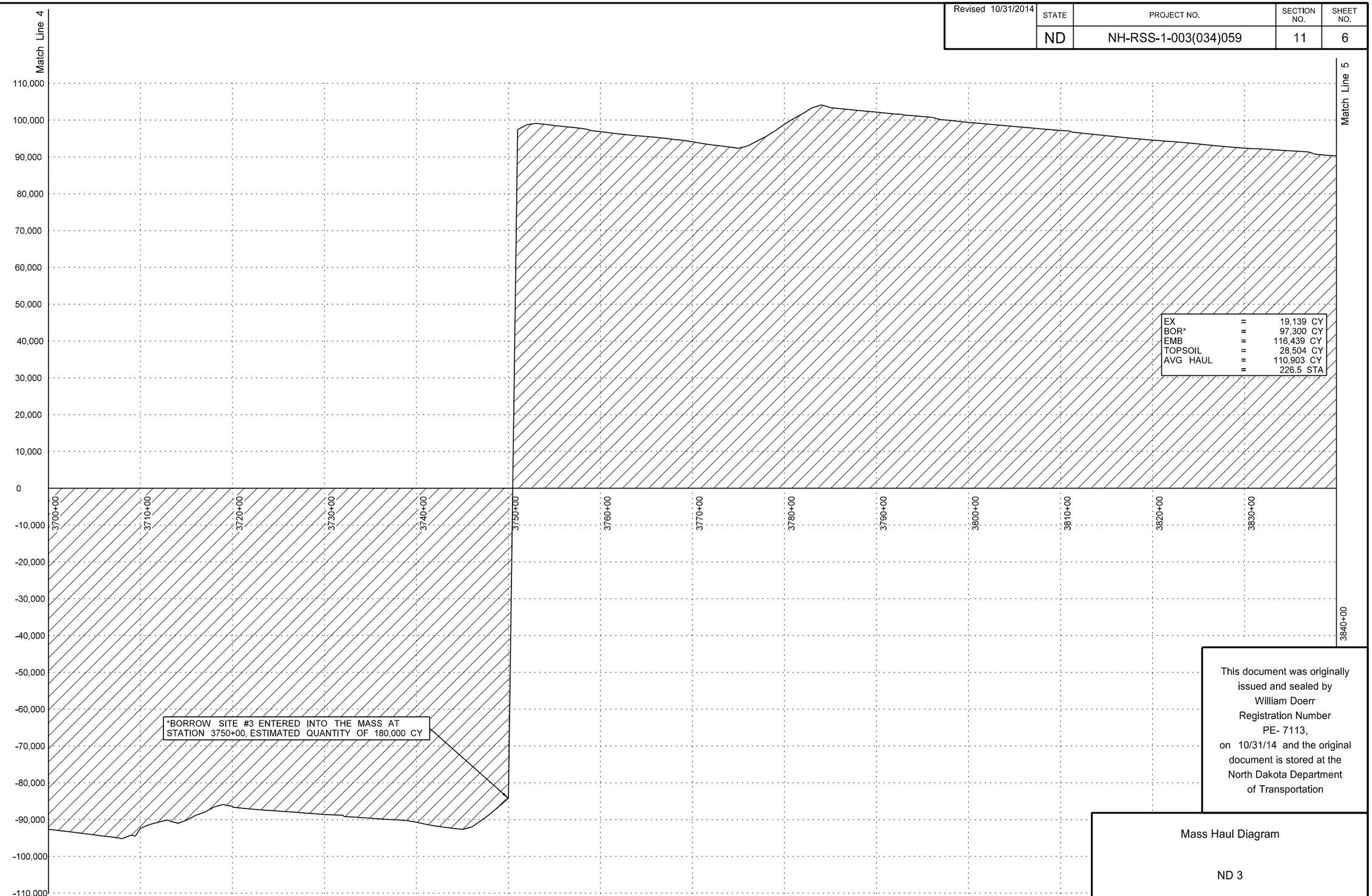
	ND	NH-RSS-1-003(034)059	11	6



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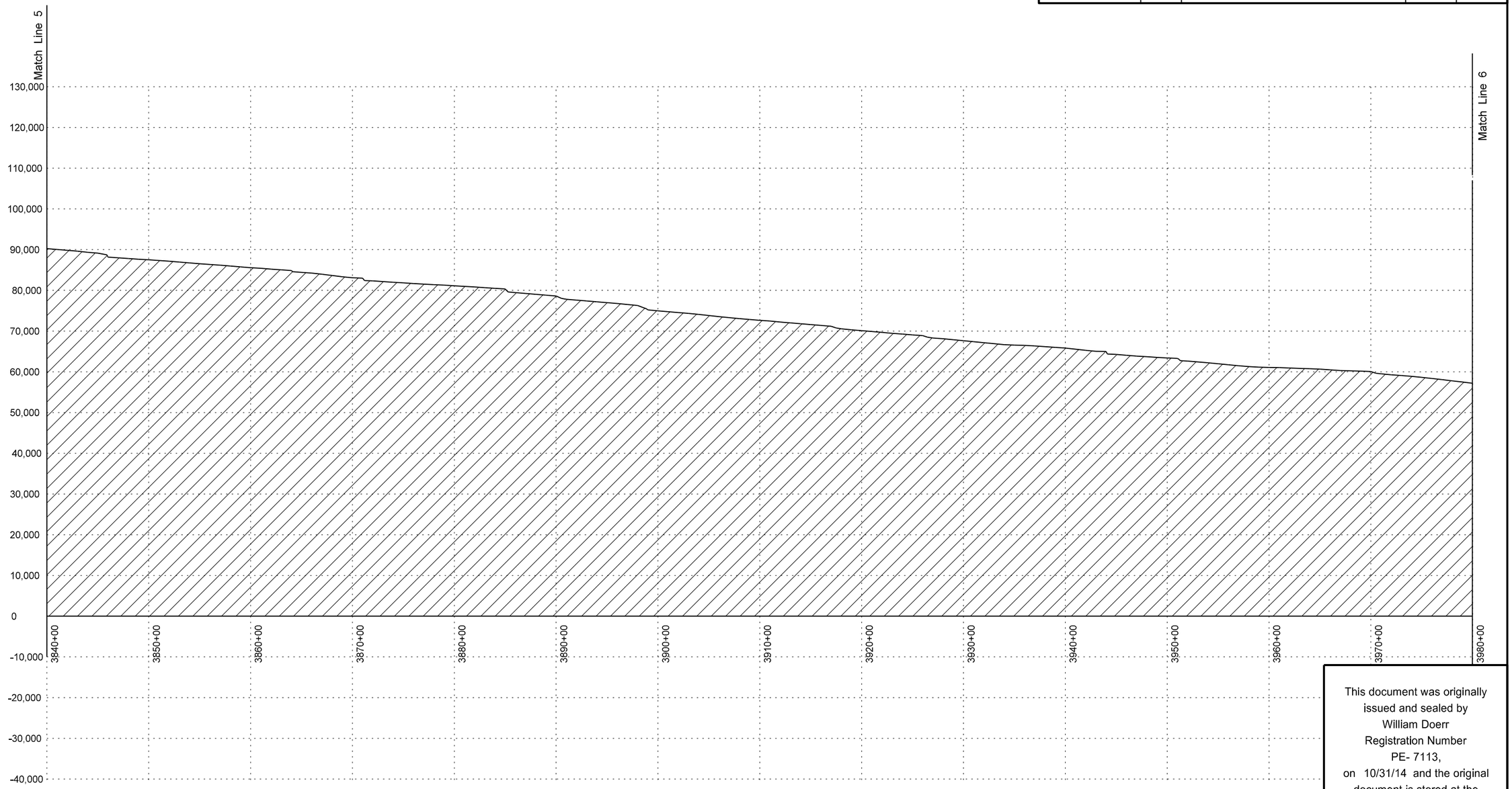
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	7



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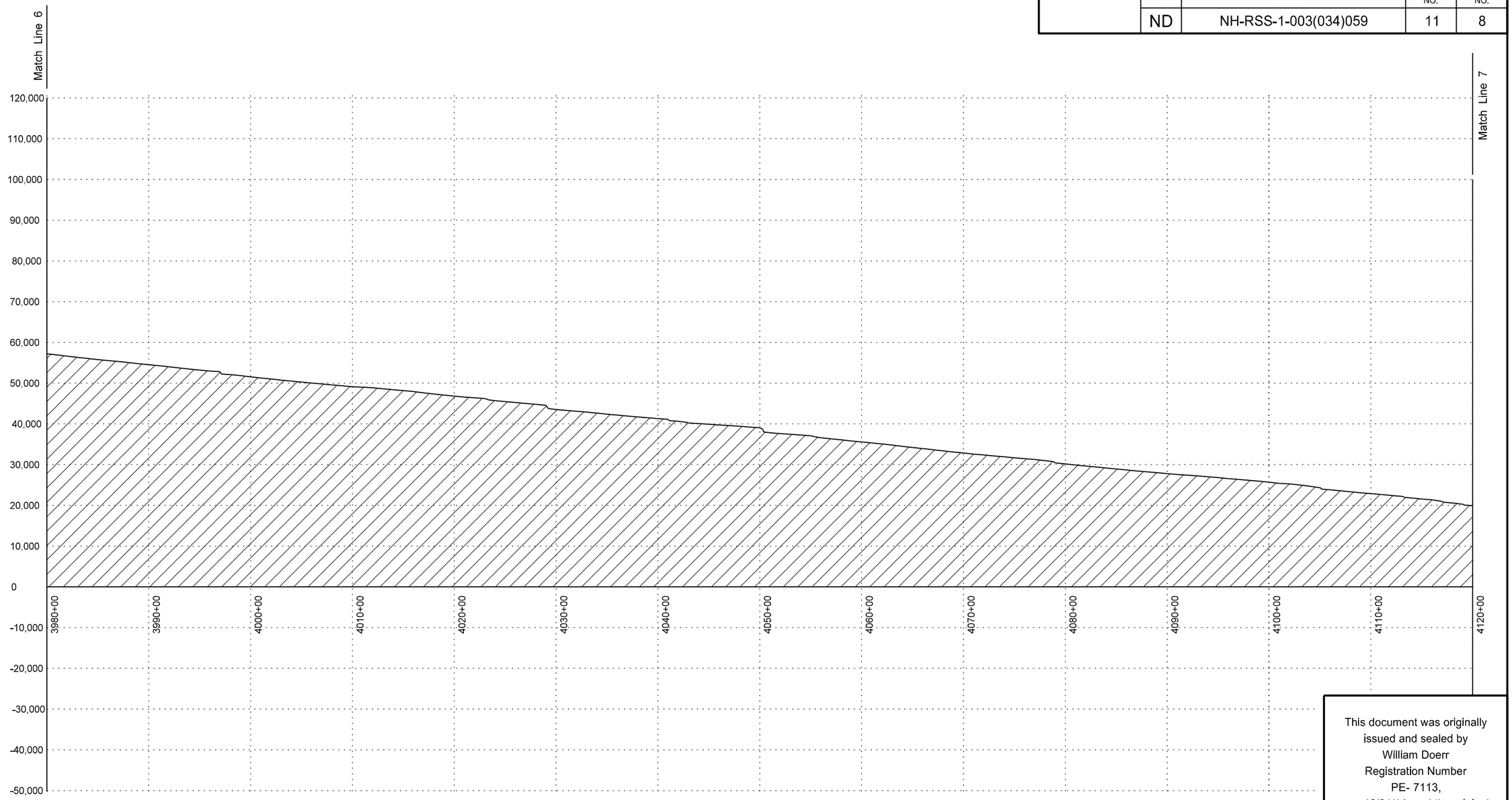
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	8



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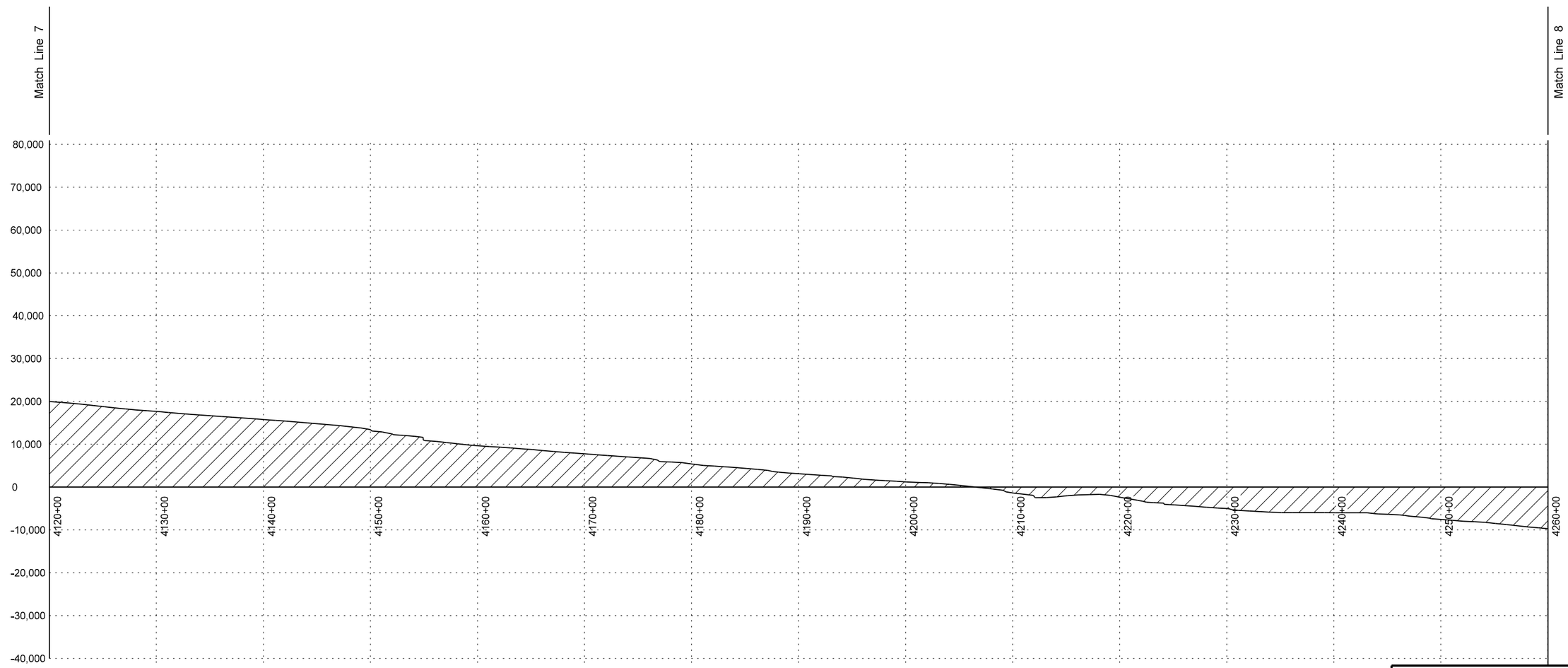
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	9



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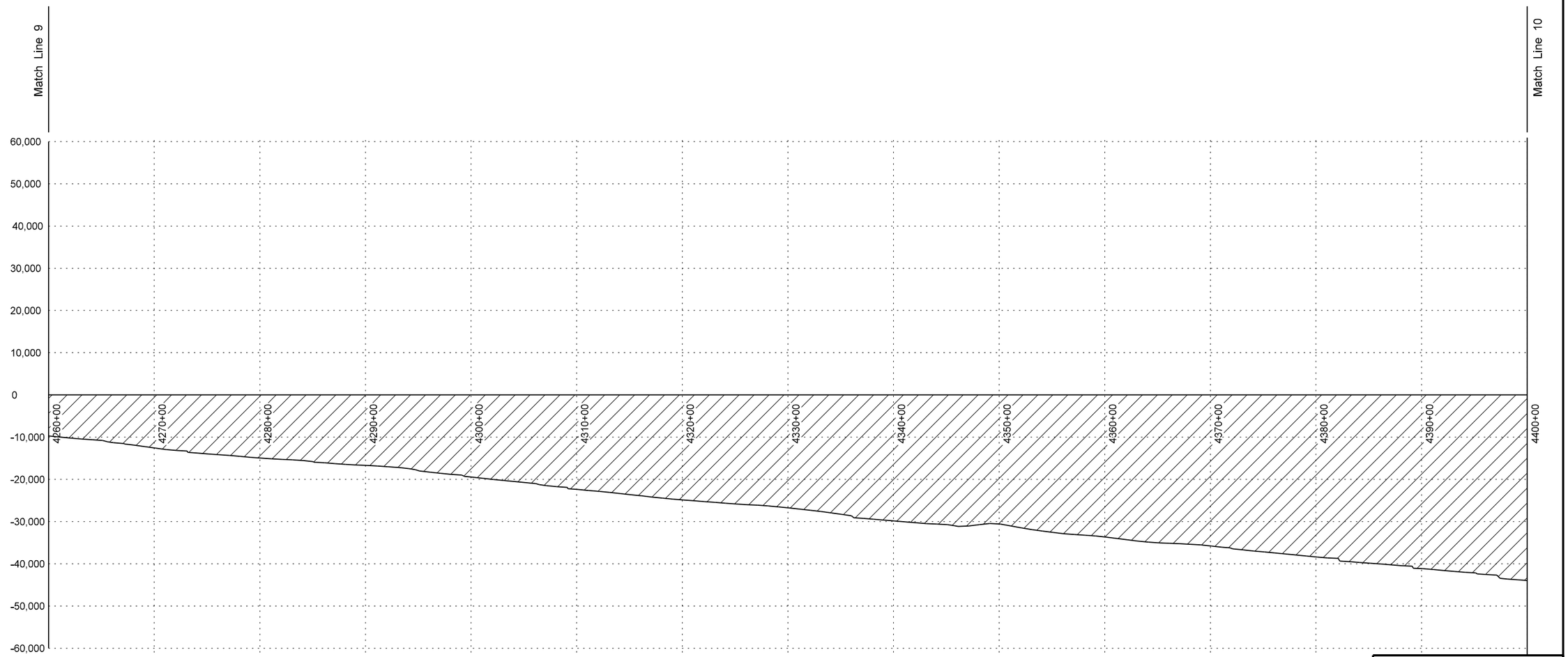
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	10



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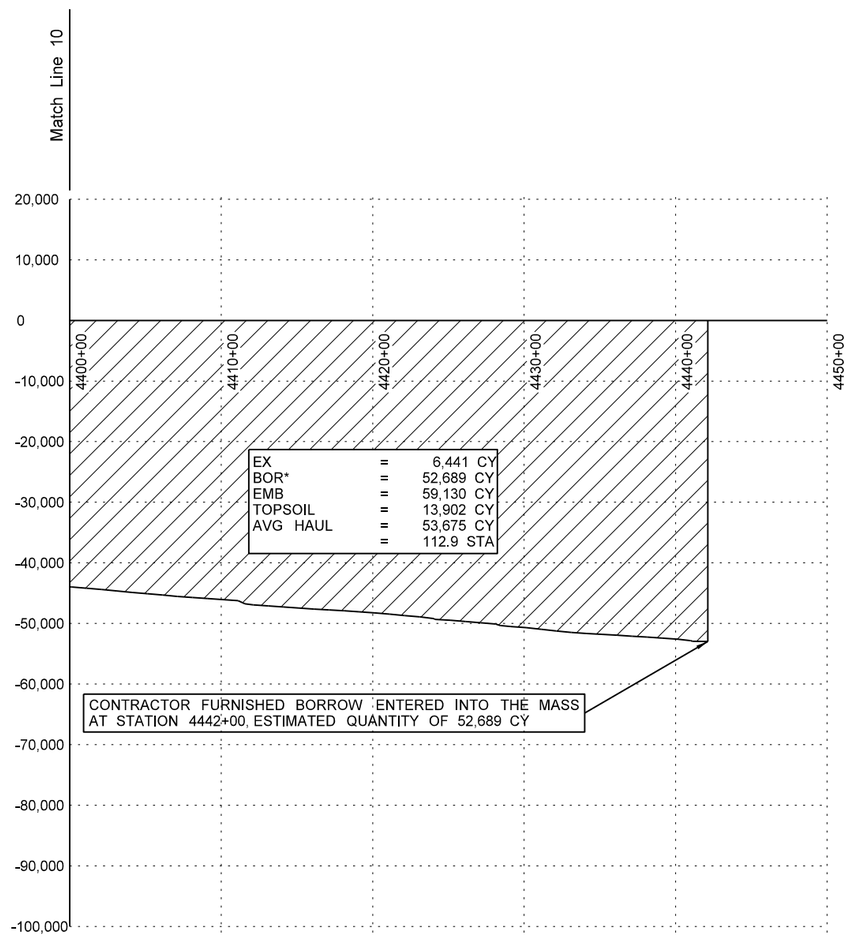
Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	11



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Mass Haul Diagram

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	12

	End Areas (SF)		Volume (CY)		
	Exca	Fill	Exca	Fill	Mass Ordinate
3146+00	1.6	1.2	0	0	0
3147+00	0.0	34.3	3.02	82.34	-79
3148+00	0.3	41.7	0.69	176.06	-255
3149+00	0.6	32.7	1.69	172.36	-425
3150+00	0.4	36.0	1.81	159.17	-583
3151+00	0.1	40.9	0.94	178.1	-760
3152+00	0.0	42.3	0.2	192.59	-952
3153+00	0.4	44.2	0.78	200.21	-1152
3154+00	0.2	53.5	1.17	226.06	-1377
3155+00	0.1	52.7	0.52	245.74	-1622
3156+00	0.2	42.8	0.57	221.11	-1842
3157+00	0.2	36.1	0.72	182.69	-2024
3158+00	0.2	34.3	0.67	162.96	-2187
3159+00	0.3	33.1	0.94	155.97	-2342
3160+00	0.8	37.8	2.04	164.1	-2504
3161+00	0.8	30.7	2.89	158.59	-2659
3162+00	1.3	33.8	3.85	149.4	-2805
3163+00	3.5	20.6	8.98	126	-3172
3164+00	1.4	32.1	9.06	121.92	-3285
3165+00	2.3	21.1	6.81	122.96	-3401
3166+00	2.5	21.7	8.98	98.89	-3491
3167+00	4.1	16.6	12.28	88.54	-3817
3168+00	1.8	28.6	10.91	104.49	-3911
3169+00	1.3	34.7	5.67	146.5	-4052
3170+00	0.2	37.2	2.63	166.6	-4216
3171+00	1.3	1.6	2.69	90	-4741
3172+00	0.6	60.0	3.54	142.73	-4880
3173+00	0.4	39.9	1.85	231.34	-5110
3174+00	0.9	26.1	2.31	152.87	-5260
3175+00	0.7	25.1	2.81	118.5	-5376
3176+00	2.7	12.0	6.15	85.76	-5768
3177+00	44.5	32.3	87.28	102.48	-5784
3178+00	57.4	35.3	188.59	156.53	-5752
3179+00	65.2	35.3	226.93	163.4	-5688
3180+00	71.1	29.5	252.26	150	-5586
3181+00	130.7	29.9	373.52	137.55	-5350
3182+00	71.6	31.9	374.56	143.06	-5118
3183+00	0.1	33.4	132.87	151.2	-5137
3184+00	0.0	35.9	0.26	160.44	-5297
3185+00	0.3	33.4	0.52	160.39	-5457
3186+00	0.8	47.5	2.02	187.11	-5642
3187+00	0.5	29.9	2.43	179.1	-6443
3188+00	0.6	33.1	2	145.88	-6587
3189+00	0.6	39.8	2.15	168.8	-6754
3190+00	0.2	35.6	1.5	174.58	-6927
3191+00	0.0	30.8	0.43	153.61	-7080
3192+00	0.4	31.9	0.74	144.98	-7224
3193+00	0.4	34.8	1.43	154.4	-7377
3194+00	0.3	38.2	1.15	169.14	-7545
3195+00	0.8	40.7	1.96	182.66	-7726
3196+00	0.2	51.5	1.8	213.38	-7938
3197+00	1.4	31.3	2.8	191.71	-8502
3198+00	2.6	23.4	7.37	126.64	-8621
3199+00	1.1	34.4	6.81	133.75	-8748
3200+00	0.8	32.2	3.39	154.03	-8898
3201+00	0.7	35.3	2.74	156.06	-9052
3202+00	1.0	35.0	3.09	162.52	-9211
3203+00	0.5	36.6	2.72	165.65	-9374
3204+00	0.2	41.0	1.31	179.68	-9552
3205+00	0.6	35.8	1.57	177.82	-10104
3206+00	1.8	22.8	4.46	135.6	-10235
3207+00	0.5	34.5	4.28	132.45	-10363
3208+00	1.4	25.2	3.59	138.15	-10498
3209+00	2.1	27.8	6.48	122.73	-10614
3210+00	0.0	33.8	3.89	142.57	-10753
3211+00	0.0	37.7	0	165.56	-10918
3212+00	6.8	22.3	12.61	139	-11294
3213+00	0.6	41.8	13.67	148.5	-11429
3214+00	0.0	40.6	1.06	190.67	-11619
3215+00	1.4	26.9	2.67	156.02	-11772
3216+00	1.4	29.6	5.2	130.65	-11898
3217+00	7.1	4.0	15.61	77.73	-12210
3218+00	0.0	43.9	13.07	110.88	-12308
3219+00	1.1	37.8	1.98	189.12	-12495
3220+00	0.0	30.5	1.98	158.15	-12651
3221+00	0.3	53.5	0.61	194.42	-12845
3222+00	0.0	58.5	0.61	259.05	-13103
3223+00	0.0	49.5	0.02	249.81	-13353
3224+00	0.5	43.6	1	215.39	-13567
3225+00	0.6	46.6	2.07	208.7	-13774
3226+00	1.1	32.4	3.17	182.73	-13954
3227+00	0.9	30.0	3.76	144.38	-14532
3228+00	0.7	32.0	2.96	143.43	-14673
3229+00	1.4	34.4	3.85	153.59	-14822
3230+00	1.4	25.1	5.07	137.82	-14955
3231+00	2.6	29.6	7.22	126.6	-15325
3232+00	1.7	30.0	7.8	137.87	-15455
3233+00	1.6	36.4	6.09	153.73	-15602
3234+00	1.5	37.7	5.85	171.46	-15768
3235+00	1.1	44.2	4.83	189.42	-15952
3236+00	1.4	29.1	4.5	169.51	-16680
3237+00	1.0	24.2	4.26	123.31	-16800
3238+00	1.1	34.9	3.81	136.74	-16932
3239+00	0.1	51.5	2.3	199.91	-17130
3240+00	0.3	49.2	0.74	233.12	-17362
3241+00	0.4	51.0	1.26	231.94	-17593
3242+00	0.0	50.6	0.76	235.07	-17827
3243+00	0.1	44.5	0.22	220.12	-18047
3244+00	0.1	46.3	0.44	210.21	-18257
3245+00	0.2	41.9	0.57	204.21	-18461
3246+00	0.2	52.7	0.76	219.03	-18679
3247+00	0.2	46.5	0.76	229.63	-18908
3248+00	0.1	47.4	0.44	217.29	-19125
3249+00	1.3	35.0	2.48	190.6	-19813
3250+00	0.3	48.5	3	193.29	-20003
3251+00	0.1	43.0	0.81	211.83	-20214
3252+00	0.1	47.7	0.37	209.81	-20424
3253+00	0.0	54.3	0.2	235.88	-20659
3254+00	0.5	57.0	0.98	257.45	-20916
3255+00	0.1	75.5	1.15	306.64	-21221
3256+00	0.2	53.0	0.57	297.36	-21518
3257+00	0.2	53.5	0.65	246.44	-21764
3258+00	0.3	49.7	0.76	238.94	-22002
3259+00	0.1	48.4	0.59	227.22	-22229
3260+00	0.0	43.5	0.11	212.82	-22441
3261+00	0.1	51.0	0.24	218.73	-23160
3262+00	0.6	19.0	1.43	162.04	-23320
3263+00	0.2	46.9	1.56	152.57	-23471
3264+00	0.0	41.6	0.39	204.79	-23676
3265+00	0.1	40.3	0.17	189.44	-23865
3266+00	0.5	32.0	1.04	167.36	-24031
3267+00	0.2	39.3	1.2	165.12	-24195
3268+00	0.0	37.6	0.31	177.89	-24373
3269+00	0.3	34.1	0.63	165.83	-24538
3270+00	0.2	33.9	1.07	157.27	-24694
3271+00	0.1	39.6	0.69	169.98	-24864
3272+00	0.2	32.4	0.69	166.64	-25030
3273+00	0.1	25.0	0.69	132.92	-25162
3274+00	0.1	33.9	0.41	136.44	-25298

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Earthwork Values

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3275+00	0.1	31.8	0.3	152.11	-25700
3276+00	3.5	2.4	6.63	79.07	-25772
3277+00	0.6	47.4	7.54	115.32	-25880
3278+00	0.4	33.0	1.72	186.13	-26064
3279+00	0.2	33.7	1.09	154.26	-26217
3280+00	0.7	41.0	1.72	172.78	-26389
3281+00	0.3	38.1	1.87	183.1	-26570
3282+00	0.3	40.2	1.13	181.39	-26750
3283+00	0.2	52.4	0.98	214.4	-26963
3284+00	0.3	44.6	1	224.47	-27187
3285+00	0.3	31.6	1.19	176.3	-27362
3286+00	65.2	43.2	121.3	173.19	-27414
3287+00	108.4	44.1	321.46	202.25	-27295
3288+00	101.4	39.0	388.56	192.38	-27098
3289+00	108.1	45.7	387.93	196.04	-26907
3290+00	101.4	52.5	387.93	227.41	-26746
3291+00	110.7	46.2	392.85	228.43	-26582
3292+00	94.4	43.0	379.85	206.41	-26408
3293+00	99.4	40.2	358.89	192.59	-26242
3294+00	98.6	47.8	366.65	203.75	-26079
3295+00	71.4	9.0	314.69	131.67	-26459
3296+00	0.7	36.6	133.41	105.6	-26431
3297+00	0.7	40.0	2.57	177.18	-26606
3298+00	0.7	31.2	2.54	164.77	-26768
3299+00	0.6	24.0	2.28	127.85	-26894
3300+00	0.1	33.2	1.24	132.52	-27025
3301+00	0.6	52.4	1.37	198.29	-27222
3302+00	3.0	0.9	6.63	123.31	-27838
3303+00	0.6	38.2	6.61	90.46	-27922
3304+00	0.5	60.5	2.02	228.52	-28149
3305+00	0.4	58.0	1.52	274.33	-28422
3306+00	0.6	43.4	1.69	234.81	-28655
3307+00	0.4	34.4	1.72	180.09	-28833
3308+00	0.6	28.8	1.85	146.34	-28978
3309+00	0.6	29.9	2.24	136.02	-29111
3310+00	0.7	31.3	2.37	141.64	-29251
3311+00	0.5	35.3	2.28	154.17	-29528
3312+00	3.5	14.2	7.43	114.56	-29635
3313+00	0.1	29.2	6.69	100.37	-29728
3314+00	0.0	40.1	0.31	160.35	-29888
3315+00	0.0	29.4	0.13	160.86	-30049
3316+00	0.0	25.2	0.11	126.46	-30175
3317+00	0.5	24.6	0.94	115.25	-30290
3318+00	0.4	29.5	1.65	125.23	-30413
3319+00	0.4	34.8	1.46	148.84	-30561
3320+00	91.4	39.6	169.91	172.25	-30563
3321+00	93.2	41.9	341.72	188.61	-30410
3322+00	88.2	39.5	335.78	188.29	-30263
3323+00	86.1	36.9	322.61	176.88	-30117
3324+00	81.6	36.3	310.5	169.47	-29976

3325+00	83.9	40.2	306.46	177.06	-29846
3326+00	85.6	44.0	313.81	194.79	-29727
3327+00	0.3	25.8	159.02	161.37	-29730
3328+00	0.2	23.7	0.81	114.54	-29843
3329+00	0.3	42.1	0.81	152.45	-29995
3330+00	0.7	31.8	1.78	171.16	-30164
3331+00	1.7	1.6	4.44	77.27	-30737
3332+00	0.3	43.8	3.81	105.09	-30839
3333+00	0.2	30.9	1.06	172.99	-31010
3334+00	0.3	31.4	1.04	144.33	-31154
3335+00	0.5	35.8	1.44	155.58	-31308
3336+00	0.0	37.4	0.83	169.44	-31477
3337+00	0.0	34.9	0	167.52	-31644
3338+00	0.0	37.6	0	167.94	-31812
3339+00	0.1	41.0	0.17	181.87	-31994
3340+00	0.1	49.7	0.31	209.75	-32203
3341+00	0.1	46.9	0.3	223.4	-32426
3342+00	0.1	40.1	0.33	201.2	-32627
3343+00	0.0	47.6	0.19	202.82	-32830
3344+00	0.1	42.1	0.13	207.59	-33037
3345+00	1.9	1.3	3.65	100.6	-33384
3346+00	0.0	47.1	3.56	112.06	-33493
3347+00	0.0	55.3	0.07	236.9	-33729
3348+00	0.2	46.9	0.31	236.41	-33966
3349+00	0.0	50.1	0.28	224.38	-34190
3350+00	0.0	44.0	0.06	217.8	-34407
3351+00	0.1	41.1	0.24	196.92	-34604
3352+00	0.1	39.0	0.35	185.21	-34789
3353+00	1.1	33.0	2.2	166.62	-34953
3354+00	2.3	19.2	6.28	120.88	-35443
3355+00	0.0	15.5	4.24	80.21	-35519
3356+00	5.0	16.5	9.26	74.03	-35584
3357+00	0.8	28.9	10.67	105.16	-35678
3358+00	0.0	54.4	1.41	192.82	-35870
3359+00	0.0	34.4	0	205.53	-36075
3360+00	0.2	33.5	0.41	157.06	-36232
3361+00	0.6	28.5	1.44	143.31	-36374
3362+00	1.0	40.1	2.87	158.73	-36529
3363+00	0.7	41.5	3.13	188.89	-36715
3364+00	0.2	24.0	1.61	151.5	-36865
3365+00	0.1	41.1	0.57	150.51	-37015
3366+00	0.6	35.0	1.33	176.02	-37190
3367+00	0.3	28.4	1.56	146.76	-37335
3368+00	0.2	38.2	0.83	154.24	-37488
3369+00	0.1	32.5	0.44	163.75	-37652
3370+00	0.1	47.7	0.33	185.79	-37837
3371+00	0.0	48.2	0.24	222.06	-38059
3372+00	0.1	36.4	0.19	195.74	-38255
3373+00	0.1	45.0	0.37	188.29	-38442
3374+00	0.4	60.8	0.89	244.82	-38686

3375+00	0.0	41.2	0.72	236.13	-38922
3376+00	0.0	42.6	0.02	194.07	-39116
3377+00	0.5	19.6	0.85	144.1	-39259
3378+00	0.5	36.9	1.85	130.95	-39388
3379+00	0.2	40.6	1.28	179.37	-39566
3380+00	0.9	40.3	1.98	187.08	-39751
3381+00	1.2	31.5	3.89	166.11	-40414
3382+00	0.2	31.0	2.5	144.7	-40556
3383+00	0.4	37.7	1	159	-40714
3384+00	0.3	39.9	1.26	179.47	-40892
3385+00	0.2	44.6	0.94	195.49	-41087
3386+00	0.2	48.9	0.67	216.48	-41302
3387+00	0.0	56.0	0.31	242.8	-41545
3388+00	0.4	51.8	0.69	249.49	-41794
3389+00	0.0	51.2	0.72	238.45	-42031
3390+00	0.0	45.9	0.09	224.72	-42256
3391+00	0.2	49.3	0.37	220.39	-42476
3392+00	121.4	53.7	225.19	238.4	-42489
3393+00	272.5	65.9	729.44	276.76	-42037
3394+00	482.8	57.1	1398.65	284.77	-40923
3395+00	425.8	52.2	1682.56	253.17	-39493
3396+00	0.0	47.2	788.5	230.25	1065
3397+00	0.1	55.5	0.09	237.8	827
3398+00	0.1	56.7	0.22	259.77	568
3399+00	0.2	47.2	0.41	240.62	327
3400+00	0.0	56.5	0.28	240.21	88
3401+00	439.0	43.0	812.93	230.46	670
3402+00	192.7	50.5	1169.81	216.41	1623
3403+00	112.5	39.1	565.24	207.34	1981
3404+00	603.8	41.4	1326.52	186.44	3121
3405+00	429.6	41.4	1913.7	191.78	4843
3406+00	0.0	68.2	795.56	253.77	5385
3407+00	0.0	71.8	0.02	324.1	5061

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Earthwork Values

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Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	14

3408+00	0.0	4.5	0	176.69	4384
3409+00	0.1	69.8	0.11	172.13	4212
3410+00	81.9	71.7	151.74	327.52	4037
3411+00	99.6	61.8	336.02	308.96	4064
3412+00	106.9	41.3	382.41	238.66	4207
3413+00	98.6	44.8	380.67	199.35	4389
3414+00	61.1	42.4	295.76	201.88	4483
3415+00	0.0	43.1	113.17	197.8	4398
3416+00	0.1	46.2	0.22	206.69	4191
3417+00	0.4	43.8	0.85	208.4	3984
3418+00	0.4	52.3	1.41	222.34	3763
3419+00	0.0	50.1	0.72	236.92	3527
3420+00	0.0	53.2	0	239.21	3288
3421+00	0.0	50.6	0	240.44	3047
3422+00	0.0	47.9	0	228.13	2819
3423+00	0.0	52.6	0	232.69	2586
3424+00	0.0	53.2	0.06	244.81	2342
3425+00	0.1	46.9	0.28	231.53	2110
3426+00	0.0	52.8	0.22	230.63	1880
3427+00	0.0	44.9	0	226.16	1654
3428+00	0.4	44.0	0.74	205.81	1449
3429+00	0.1	44.1	0.83	203.89	1246
3430+00	0.6	36.6	1.24	186.85	1060
3431+00	0.1	32.6	1.26	160.19	901
3432+00	0.1	42.3	0.35	173.4	728
3433+00	0.1	44.2	0.5	200.3	528
3434+00	1.6	1.8	3.13	106.57	-75
3435+00	0.0	48.7	2.91	116.99	-189
3436+00	0.1	46.3	0.2	220	-409
3437+00	0.0	40.6	0.19	201.27	-610
3438+00	0.3	37.6	0.57	180.97	-791
3439+00	0.1	42.1	0.81	184.31	-974
3440+00	0.1	36.3	0.5	181.32	-1155
3441+00	0.3	40.6	0.7	177.92	-1332
3442+00	0.1	40.8	0.72	188.29	-1520
3443+00	0.1	44.8	0.44	198.06	-1717
3444+00	0.3	51.9	0.72	223.77	-1940
3445+00	0.0	47.3	0.54	229.61	-2169
3446+00	0.1	44.7	0.11	213.06	-2382
3447+00	0.3	40.0	0.63	196.11	-2578
3448+00	0.2	44.1	0.94	194.56	-2771
3449+00	0.4	45.9	1.09	208.13	-2979
3450+00	0.1	44.2	0.81	208.47	-3186
3451+00	0.1	45.9	0.39	208.52	36606
3452+00	2.3	2.8	4.48	112.75	35997
3453+00	0.0	98.6	4.24	234.81	35767
3454+00	0.0	98.0	0	455	35312
3455+00	3.1	2.5	5.67	232.57	34585
3456+00	0.1	80.9	5.87	193.01	34398
3457+00	0.0	51.0	0.22	305.3	34093

3458+00	0.0	38.4	0.02	207.04	33886
3459+00	0.2	33.0	0.41	165.21	33721
3460+00	0.7	40.6	1.67	170.37	33177
3461+00	2.5	2.3	5.85	99.28	33084
3462+00	0.2	54.9	4.98	132.2	32957
3463+00	0.0	58.3	0.39	261.92	32695
3464+00	0.5	74.8	0.87	308.06	32388
3465+00	0.9	34.8	2.59	253.7	32137
3466+00	2.3	2.2	5.93	85.74	31682
3467+00	0.4	49.5	4.96	119.84	31567
3468+00	0.1	63.2	1	260.86	31307
3469+00	0.1	52.7	0.37	268.13	31039
3470+00	0.9	41.5	1.72	217.94	30823
3471+00	0.4	39.5	2.31	187.45	30638
3472+00	0.7	35.7	2.07	174.14	30466
3473+00	0.1	47.8	1.46	193.43	30274
3474+00	0.2	46.7	0.43	218.87	30056
3475+00	0.0	32.9	0.31	184.21	29872
3476+00	0.5	52.7	0.93	198.06	29675
3477+00	0.7	50.9	2.22	239.84	29437
3478+00	0.2	43.2	1.67	217.82	29221
3479+00	1.0	36.5	2.2	184.44	29039
3480+00	66.4	47.3	124.7	193.89	28969
3481+00	485.8	61.2	1022.56	251.13	29741
3482+00	322.6	70.6	1497.02	305.05	30933
3483+00	497.3	45.1	1518.2	267.66	32183
3484+00	402.8	43.4	1666.78	204.7	33645
3485+00	551.7	40.6	1767.5	194.38	35218
3486+00	484.4	46.3	1918.63	201.3	36936
3487+00	1.9	2.3	900.63	112.69	37286
3488+00	0.0	56.7	3.59	136.62	37153
3489+00	0.0	57.0	0	263.15	36890
3490+00	0.0	57.6	0	265.28	36624
3491+00	0.0	62.8	0	278.75	36346
3492+00	0.0	83.3	0	338.15	36007
3493+00	231.2	61.0	428.22	333.84	36102
3494+00	268.7	57.9	925.72	275.19	36752
3495+00	218.4	70.1	901.98	296.32	37358
3496+00	209.4	70.7	792.32	325.95	37824
3497+00	0.0	93.0	387.83	379.03	37833
3498+00	0.3	75.1	0.59	389.17	37445
3499+00	0.9	58.6	2.33	309.56	37137
3500+00	0.9	77.6	3.48	315.35	36825
3501+00	0.8	56.8	3.28	311.06	36518
3502+00	0.0	70.8	1.54	295.35	36224
3503+00	0.3	64.4	0.46	312.87	35786
3504+00	2.0	18.3	4.17	191.3	35599
3505+00	0.5	34.6	4.7	122.48	35482
3506+00	0.1	83.5	1.17	273.45	35209
3507+00	0.2	35.0	0.57	274.21	34936

3508+00	0.5	31.0	1.26	152.73	34784
3509+00	0.5	29.8	1.72	140.76	34645
3510+00	0.5	44.3	1.74	171.44	34475
3511+00	0.6	48.3	1.91	214.31	34263
3512+00	0.0	54.1	1.04	237.01	34027
3513+00	0.0	61.6	0	267.68	33259
3514+00	0.5	39.7	1	234.4	33026
3515+00	0.4	45.7	1.69	197.73	32830
3516+00	0.0	38.8	0.69	195.65	32635
3517+00	0.7	44.9	1.28	193.8	32442
3518+00	0.1	38.3	1.54	192.69	32251
3519+00	0.2	61.8	0.56	231.85	32020
3520+00	0.3	59.3	0.93	280.49	31740
3521+00	0.6	46.4	1.69	244.72	31497
3522+00	0.4	53.3	1.85	230.65	31269
3523+00	0.3	52.6	1.37	245.02	31025
3524+00	0.2	52.3	1.02	242.89	30783
3525+00	0.3	60.2	0.96	260.53	30524
3526+00	0.1	68.2	0.67	297.25	30227
3527+00	0.5	51.8	0.98	277.78	29950
3528+00	0.7	52.3	2.07	240.93	29711
3529+00	0.3	57.5	1.76	254.03	29459
3530+00	0.8	22.8	1.93	185.74	29025
3531+00	0.3	66.5	2.04	206.67	28821
3532+00	0.0	95.1	0.63	374.17	28447
3533+00	0.8	76.0	1.48	396.25	28052
3534+00	0.5	75.3	2.46	350.25	27704
3535+00	0.5	55.9	1.87	303.63	27403
3536+00	0.0	46.6	0.89	237.2	27166
3537+00	2.1	25.7	3.83	167.2	26878
3538+00	175.4	64.0	328.7	207.55	26999
3539+00	234.0	69.1	758.22	308.1	27449
3540+00	473.2	81.3	1309.56	348.22	28411

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3541+00	490.0	63.4	1783.65	334.98	29859
3542+00	499.8	54.8	1833.06	273.59	31419
3543+00	344.3	45.1	1563.11	231.18	32751
3544+00	0.6	38.1	638.67	192.57	33197
3545+00	1.2	30.7	3.3	159.28	33041
3546+00	0.0	44.5	2.17	173.94	32869
3547+00	0.0	56.9	0.09	234.68	32634
3548+00	0.0	20.5	0.06	179.26	32455
3549+00	0.1	46.9	0.17	156.06	32299
3550+00	0.1	49.8	0.41	223.89	32076
3551+00	0.3	50.9	0.7	233.24	31843
3552+00	3.8	84.0	7.5	312.41	31538
3553+00	0.0	149.3	7.04	539.98	31006
3554+00	0.0	263.6	0	955.69	30050
3555+00	0.0	426.1	0	1596.5	28453
3556+00	0.0	524.0	0	2199.19	26254
3557+00	0.0	594.3	0	2588.56	23666
3558+00	0.0	537.6	0	2620.21	21045
3559+00	0.0	408.1	0	2189.14	17606
3560+00	0.0	347.6	0	1749.19	15857
3561+00	0.0	290.4	0	1476.78	14380
3562+00	0.0	234.2	0	1214.42	13166
3563+00	0.0	201.2	0	1008.01	12158
3564+00	0.0	188.5	0	902.18	11256
3565+00	0.0	187.2	0	869.7	10386
3566+00	0.0	184.5	0	860.49	9525
3567+00	0.0	186.8	0	859.54	8666
3568+00	0.0	212.9	0	925.14	7741
3569+00	0.0	291.1	0	1166.69	6574
3570+00	0.0	354.4	0	1494.17	5080
3571+00	0.0	417.4	0	1786.44	3293
3572+00	0.0	441.0	0	1987.06	-569
3573+00	0	824.91	0	0	239
3574+00	0	1122.28	0	4867.98	-4629
3575+00	0	1298	0	6050.7	-10680
3576+00	0	1371.02	0	6672.55	-17352
3577+00	0	1381.81	0	6882.07	-24234
3578+00	0	1359.98	0	6854.48	-31089
3579+00	0	1301.27	0	6653.13	-37742
3580+00	0	1209.01	0	6275.7	-44018
3581+00	0	1042.21	0	5628.05	-49646
3582+00	0	770.97	0	4532.95	-54179
3583+00	0	597.16	0	3420.32	-57599
3584+00	0	494	0	2727.9	-60327
3585+00	0	415.33	0	2273.32	-62600
3586+00	0	323.64	0	1847.43	-64448
3587+00	0	278.72	0	1505.9	-65953

3588+00	2.27	88.43	4.2	917.88	-68117
3589+00	0	217.03	4.2	763.65	-68877
3590+00	0	233.97	0	1127.5	-70004
3591+00	0	236.6	0	1176.43	-71181
3592+00	0	242.13	0	1196.83	-72377
3593+00	0	231.54	0	1184.18	-73562
3594+00	0	214.29	0	1114.58	-74676
3595+00	0	165.16	0	948.63	-75625
3596+00	0.52	138.38	0.96	758.85	-76383
3597+00	17.24	89.39	32.89	569.43	-76919
3598+00	0.02	42.76	31.96	330.38	-77218
3599+00	0.1	40.79	0.22	208.88	-77426
3600+00	0.07	58.87	0.31	249.15	-77675
3601+00	0	65.17	0.13	310.1	-77985
3602+00	289.49	48.51	536.09	284.2	-77733
3603+00	244.75	57.33	989.33	264.6	-77008
3604+00	178.03	44.23	782.93	253.9	-76479
3605+00	281.87	42.84	851.67	217.68	-75845
3606+00	242	54.22	970.13	242.65	-75118
3607+00	238.02	43.91	888.93	245.33	-74474
3608+00	205.57	57.31	821.46	253.05	-73906
3609+00	0	55.66	380.69	282.43	-73808
3610+00	0	49.74	0	263.5	-74071
3611+00	0.41	36.57	0.76	215.78	-74286
3612+00	0.48	39.72	1.65	190.72	-74475
3613+00	0.37	43.69	1.57	208.53	-74682
3614+00	0.28	39.51	1.2	208	-75139
3615+00	0.31	52.65	1.09	230.4	-75368
3616+00	0.13	45.06	0.81	244.28	-75612
3617+00	1.02	71.66	2.13	291.8	-75901
3618+00	0.67	41.38	3.13	282.6	-76181
3619+00	0.29	43.74	1.78	212.8	-76392
3620+00	0.35	40.06	1.19	209.5	-76600
3621+00	0.08	48.97	0.8	222.58	-76822
3622+00	1.06	43.82	2.11	231.98	-77052
3623+00	1.57	17.5	4.87	153.3	-77575
3624+00	0.94	53.88	4.65	178.45	-77749
3625+00	7.31	1.83	15.28	139.28	-78311
3626+00	0.24	42.27	13.98	110.25	-78407
3627+00	0.04	60.45	0.52	256.8	-78664
3628+00	0	55.02	0.07	288.68	-78952
3629+00	0	56.5	0	278.8	-79231
3630+00	0.07	52.34	0.13	272.1	-79503

3631+00	0.21	46.65	0.52	247.48	-79750
3632+00	0	49.7	0.39	240.88	-79991
3633+00	0.23	50.15	0.43	249.63	-80240
3634+00	0.51	34.26	1.37	211.03	-80449
3635+00	0.75	43.25	2.33	193.77	-80641
3636+00	0	51.41	1.39	236.65	-80876
3637+00	0	59.28	0	276.73	-81153
3638+00	0.2	47.76	0.37	267.6	-81420
3639+00	0	59.24	0.37	267.5	-81687
3640+00	0.05	59.13	0.09	295.93	-81983
3641+00	0	52.3	0.09	278.57	-82262
3642+00	0	46.29	0	246.48	-82508
3643+00	0.29	59.98	0.54	265.68	-82773
3644+00	178.27	42.4	330.67	255.95	-82698
3645+00	376.63	48.3	1027.59	226.75	-81898
3646+00	263.77	42.34	1185.93	226.6	-80938
3647+00	304.04	51.13	1051.5	233.68	-80120
3648+00	321.68	50.58	1158.74	254.28	-79341
3649+00	2.42	14.67	600.19	163.13	-78904
3650+00	1.11	44.47	6.54	147.85	-79045
3651+00	0.41	55.32	2.81	249.48	-79292
3652+00	0	57.45	0.76	281.93	-79573
3653+00	0.48	60.57	0.89	295.05	-79867
3654+00	0	57.05	0.89	294.05	-80160
3655+00	0.52	32.62	0.96	224.17	-80384
3656+00	0.51	38.45	1.91	177.67	-80559
3657+00	0.43	64.01	1.74	256.15	-80814
3658+00	0.01	57.41	0.81	303.55	-81117
3659+00	0.35	54.16	0.67	278.93	-81395

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	ND	NH-RSS-1-003(034)059	11	16

3660+00	0	55.11	0.65	273.18	-81667
3661+00	0.11	87.08	0.2	355.48	-82023
3662+00	1.09	58.38	2.22	363.65	-82384
3663+00	1.02	61.09	3.91	298.68	-82679
3664+00	0.68	42.68	3.15	259.43	-82935
3665+00	0.36	51.87	1.93	236.37	-83169
3666+00	0.48	47.48	1.56	248.38	-83416
3667+00	0.53	50.79	1.87	245.68	-83660
3668+00	0.36	48.57	1.65	248.4	-83907
3669+00	0.37	50.94	1.35	248.78	-84154
3670+00	0	49.63	0.69	251.43	-84405
3671+00	0	72.17	0	304.5	-84710
3672+00	0	86.41	0	396.45	-85106
3673+00	0	54.04	0	351.12	-85707
3674+00	11.46	25.55	21.22	198.98	-85885
3675+00	1.41	57.27	23.83	207.05	-86068
3676+00	0.79	57.57	4.07	287.1	-86351
3677+00	0.86	51.72	3.06	273.23	-86621
3678+00	9.17	2.64	18.57	135.9	-87239
3679+00	0	76.76	16.98	198.5	-87420
3680+00	0.04	132.32	0.07	522.7	-87943
3681+00	0	43.5	0.07	439.55	-88507
3682+00	0.48	39.56	0.89	207.65	-88714
3683+00	1.22	28.57	3.15	170.33	-89006
3684+00	0	50.21	2.26	196.95	-89201
3685+00	0	47.71	0	244.8	-89446
3686+00	0	47.34	0	237.63	-89683
3687+00	0	43.92	0	228.15	-89911
3688+00	0	51.52	0	238.6	-90150
3689+00	0	51.72	0	258.1	-90408
3690+00	0.21	50.03	0.39	254.38	-90662
3691+00	0	49.06	0.39	247.73	-90909
3692+00	0	45.86	0	237.3	-91147
3693+00	0	46.04	0	229.75	-91377
3694+00	0	61.54	0	268.95	-91645
3695+00	0.17	65.3	0.31	317.1	-92087
3696+00	0.08	56.08	0.46	303.45	-92390
3697+00	0.26	59.37	0.63	288.63	-92678
3698+00	0.06	62.03	0.59	303.5	-92981
3699+00	0.26	62.61	0.59	311.6	-93292
3700+00	0.14	54.74	0.74	293.38	-93585
3701+00	0.28	58.92	0.78	284.15	-93868
3702+00	0.08	65.47	0.67	310.98	-94179
3703+00	0	62.93	0.15	321	-94499
3704+00	0.03	64.72	0.06	319.13	-94818
3705+00	0.14	67.02	0.31	329.35	-95147
3706+00	0.24	50.82	0.7	294.6	-95691
3707+00	0.6	11.74	1.56	156.4	-95846
3708+00	622.22	60.59	1153.37	180.83	-95124
3709+00	692.68	67.02	2435	319.03	-93008
3710+00	0	27.37	1282.74	235.98	-91961
3711+00	529.21	104.4	980.02	329.43	-91310
3712+00	0.32	47.41	980.61	379.53	-91459
3713+00	0.11	33.98	0.8	203.47	-91662
3714+00	636.5	63.22	1178.91	243	-90726
3715+00	267.11	74.52	1673.35	344.35	-89397
3716+00	405.58	82.35	1245.72	392.18	-88543
3717+00	554.98	72.8	1778.81	387.88	-87153
3718+00	0.18	54.81	1028.07	319.03	-86694
3719+00	0.19	33	0.69	219.53	-87162
3720+00	0	63.35	0.35	240.88	-87403
3721+00	0.06	44.98	0.11	270.83	-87674
3722+00	0	33.11	0.11	195.23	-87869
3723+00	0	36.08	0	172.97	-88042
3724+00	0.05	32.75	0.09	172.08	-88214
3725+00	0	34.15	0.09	167.25	-88381
3726+00	0	41.46	0	189.03	-88570
3727+00	0.04	38.47	0.07	199.83	-88770
3728+00	0.05	37.57	0.17	190.1	-88960
3729+00	0.11	32.9	0.3	176.18	-89135
3730+00	0.23	22.38	0.63	138.2	-89273
3731+00	7.86	2.22	14.98	61.5	-89695
3732+00	0.05	41.21	14.65	108.58	-89788
3733+00	0.18	31.27	0.43	181.2	-89969
3734+00	0.22	35.99	0.74	168.15	-90137
3735+00	0	33	0.41	172.47	-90309
3736+00	0	27.96	0	152.4	-90461
3737+00	0.01	26.43	0.02	135.98	-90597
3738+00	0.64	50.61	1.2	192.6	-90788
3739+00	0.01	118.22	1.2	422.07	-91209
3740+00	0.42	105.27	0.8	558.73	-91767
3741+00	0.23	73.15	1.2	446.05	-92212
3742+00	0.43	64.98	1.22	345.33	-92556
3743+00	0	57.97	0.8	307.38	-92863
3744+00	0	60.49	0	296.15	-93159
3745+00	498.83	55.03	923.76	288.8	-92524
3746+00	575.37	55.1	1989.26	275.33	-90810
3747+00	554.13	49.22	2091.67	260.8	-88979
3748+00	698.39	35.53	2319.48	211.88	-86872
3749+00	578.65	50.9	2364.89	216.07	-84723
3750+00	462.43	49.43	1927.93	250.83	96954
3751+00	363.9	42.35	1530.24	229.45	98255
3752+00	0	63.42	673.89	264.43	98665
3753+00	0	58.43	0	304.63	98360
3754+00	0	60.46	0	297.23	98063
3755+00	0	55.19	0	289.13	97774
3756+00	0.25	46.13	0.46	253.3	97521
3757+00	0	64.01	0.46	275.35	96996
3758+00	0	59.33	0	308.35	96688
3759+00	0.26	56.79	0.48	290.3	96398
3760+00	0	64.97	0.48	304.4	96094
3761+00	0	51.05	0	290.05	95804
3762+00	0.02	52.14	0.04	257.98	95546
3763+00	0	44.2	0.04	240.85	95305
3764+00	0	45.74	0	224.85	95080
3765+00	0.76	36.22	1.41	204.9	94877
3766+00	0	71.42	1.41	269.1	94609
3767+00	0	52.28	0	309.25	94300
3768+00	0.55	46.8	1.02	247.7	94053
3769+00	0.22	101.08	1.43	369.7	93685
3770+00	0	92.1	0.41	482.95	93202
3771+00	0	50.13	0	355.57	92847
3772+00	0	65.15	0	288.2	92558
3773+00	0	59.47	0	311.55	92247
3774+00	0.35	81.7	0.65	352.93	91895

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3775+00	510.3	50.43	945.65	330.33	92510
3776+00	332.62	44.87	1560.96	238.25	93833
3777+00	473.77	52.17	1493.31	242.6	95083
3778+00	558.06	63.98	1910.8	290.38	96704
3779+00	514.85	46.25	1986.87	275.57	98415
3780+00	437.39	43.59	1763.41	224.6	99954
3781+00	423.94	55.07	1595.06	246.65	101302
3782+00	582.34	62.19	1863.48	293.15	102873
3783+00	0.2	53.43	1078.78	289.05	103287
3784+00	0.22	70.75	0.78	310.45	102978
3785+00	0.41	45.88	1.17	291.58	102687
3786+00	0	53.41	0.76	248.23	102440
3787+00	0.05	46.23	0.09	249.1	102191
3788+00	0.71	39.72	1.41	214.87	101977
3789+00	0.05	55.92	1.41	239.1	101740
3790+00	0.27	45.98	0.59	254.75	101485
3791+00	0	47.73	0.5	234.28	101127
3792+00	5.39	22.57	9.98	175.75	100961
3793+00	0.41	49.29	10.74	179.65	100792
3794+00	0.57	48.8	1.81	245.23	100549
3795+00	0.76	40.13	2.46	222.33	99954
3796+00	0.58	39.51	2.48	199.1	99757
3797+00	0.01	52.28	1.09	229.48	99529
3798+00	0.22	52.94	0.43	263.05	99266
3799+00	0	54.08	0.41	267.55	98999
3800+00	0	41.37	0	238.63	98760
3801+00	0.05	39.86	0.09	203.07	98557
3802+00	0	48.96	0.09	222.05	98335
3803+00	0.13	45.06	0.24	235.05	98101
3804+00	0	48.82	0.24	234.7	97866
3805+00	0.57	39.21	1.06	220.07	97647
3806+00	0.09	44.21	1.22	208.55	97440
3807+00	0.03	42.22	0.22	216.07	97224
3808+00	0.16	41.13	0.35	208.38	97016
3809+00	0	44.69	0.3	214.55	96802
3810+00	2.21	17.6	4.09	155.72	96400
3811+00	0	64.96	4.09	206.4	96198
3812+00	0	49.34	0	285.75	95912
3813+00	0	52.54	0	254.7	95657
3814+00	0	50.86	0	258.5	95399
3815+00	0.09	52.83	0.17	259.23	95140
3816+00	0.16	49.74	0.46	256.43	94884
3817+00	0.09	52.24	0.46	254.95	94629

3818+00	0.12	36.79	0.39	222.58	94407
3819+00	0.2	41.81	0.59	196.5	94211
3820+00	0.57	35.46	1.43	193.18	94019
3821+00	0.24	44.55	1.5	200.03	93821
3822+00	0.21	39.36	0.83	209.78	93612
3823+00	0	43.96	0.39	208.3	93404
3824+00	0.13	52.48	0.24	241.1	93163
3825+00	0.08	50.16	0.39	256.6	92907
3826+00	0.41	48.02	0.91	245.45	92662
3827+00	0.1	45.83	0.94	234.63	92429
3828+00	0.45	39.28	1.02	212.78	92217
3829+00	0.81	33.12	2.33	181	92038
3830+00	0.89	26.25	3.15	148.43	91893
3831+00	1.32	25.99	4.09	130.6	91766
3832+00	0.94	34.87	4.19	152.15	91619
3833+00	0.54	33.84	2.74	171.78	91449
3834+00	0.95	28.54	2.76	155.95	91296
3835+00	0.6	31.17	2.87	149.28	91150
3836+00	0.62	30.63	2.26	154.5	90498
3837+00	0.01	36.27	1.17	167.25	90332
3838+00	0.23	41.12	0.44	193.47	90139
3839+00	0.06	41.38	0.54	206.25	89933
3840+00	0	45.79	0.11	217.93	89715
3841+00	0.52	41.88	0.96	219.17	89497
3842+00	0	47.42	0.96	223.25	89274
3843+00	0.02	51.03	0.04	246.13	89028
3844+00	0.1	41.24	0.22	230.67	88048
3845+00	0	23.4	0.19	161.6	87887
3846+00	0	38.26	0	154.15	87732
3847+00	0.58	40.01	1.07	195.68	87538
3848+00	0.61	28.47	2.2	171.2	87369
3849+00	1.31	27.61	3.56	140.2	87232
3850+00	0.79	37.24	3.89	162.13	87074
3851+00	0.59	41.31	2.56	196.38	86880
3852+00	1.07	43.53	3.07	212.1	86671
3853+00	0.87	42.06	3.59	213.98	86461
3854+00	0.76	36.23	3.02	195.72	86268
3855+00	0.85	37.64	2.98	184.68	86086
3856+00	1.21	37.82	3.81	188.65	85901
3857+00	0.62	43.15	3.39	202.43	85702
3858+00	1	42.33	3	213.7	85492
3859+00	1.18	34.7	4.04	192.58	85303
3860+00	1.51	36.28	4.98	177.45	85131

3861+00	0.68	36.98	4.06	183.15	84952
3862+00	0.99	44.05	3.09	202.57	84752
3863+00	1.57	26.2	4.74	175.63	84331
3864+00	1.06	37.84	4.87	160.1	84176
3865+00	0.3	44.89	2.52	206.82	83972
3866+00	0.24	58.47	1	258.4	83714
3867+00	0.4	64.05	1.19	306.3	83409
3868+00	0.41	60.92	1.5	312.43	83098
3869+00	0.43	43.79	1.56	261.78	82838
3870+00	6.29	1.52	12.44	113.28	82174
3871+00	0	28.47	11.65	74.98	82111
3872+00	0.4	33.11	0.74	153.95	81958
3873+00	0.51	34.75	1.69	169.65	81790
3874+00	1.28	32.44	3.31	167.97	81625
3875+00	0.22	29.08	2.78	153.8	81474
3876+00	0.36	28.88	1.07	144.9	81330
3877+00	0.46	25.44	1.52	135.8	81196
3878+00	0	28.7	0.85	135.35	81061
3879+00	0.22	30.52	0.41	148.05	80914
3880+00	0.93	27.2	2.13	144.3	80772
3881+00	0.67	35.89	2.96	157.72	80617
3882+00	0	32.14	1.24	170.08	80448
3883+00	0.44	30.28	0.81	156.05	80293
3884+00	1.26	28.41	3.15	146.73	79461
3885+00	0.31	39.33	2.91	169.35	79295
3886+00	0.3	41.55	1.13	202.2	79094
3887+00	0	40.02	0.56	203.92	78890
3888+00	0	42.55	0	206.43	78684
3889+00	0.8	44.63	1.48	217.95	77904

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3890+00	0	38.59	1.48	208.05	77698
3891+00	0.12	44.29	0.22	207.2	77491
3892+00	0.52	41.59	1.19	214.7	77277
3893+00	0.45	42.27	1.8	209.65	77069
3894+00	0.44	39.27	1.65	203.85	76867
3895+00	0.61	40.14	1.94	198.53	76671
3896+00	0.05	54.62	1.22	236.9	76435
3897+00	0.04	53.99	0.17	271.52	75414
3898+00	0.27	45.66	0.57	249.13	75165
3899+00	0	51.7	0.5	243.4	74922
3900+00	0.42	39.64	0.78	228.35	74695
3901+00	0.3	42.3	1.33	204.85	74491
3902+00	0	41.53	0.56	209.58	74282
3903+00	0	56.78	0	245.78	74036
3904+00	0	52.07	0	272.13	73764
3905+00	0	54.69	0	266.9	73497
3906+00	0.16	49.83	0.3	261.3	73236
3907+00	0.24	43.1	0.74	232.32	73005
3908+00	0	39.13	0.44	205.58	72800
3909+00	0.63	39.31	1.17	196.1	72605
3910+00	0	43.28	1.17	206.48	72399
3911+00	0.38	45.37	0.7	221.63	72178
3912+00	0	44.57	0.7	224.85	71954
3913+00	0	40.55	0	212.8	71741
3914+00	0.35	42.18	0.65	206.82	71535
3915+00	0	42.93	0.65	212.78	71323
3916+00	0.36	39.09	0.67	205.05	70744
3917+00	0.02	47.56	0.7	216.63	70528
3918+00	0.13	41.08	0.28	221.6	70307
3919+00	0	43.13	0.24	210.53	70096
3920+00	0.23	42.68	0.43	214.53	69882
3921+00	0.09	47.49	0.59	225.43	69657
3922+00	0.2	40.54	0.54	220.07	69438
3923+00	0.04	38.81	0.44	198.38	69240
3924+00	0.21	36.82	0.46	189.07	69051
3925+00	0.06	32.7	0.5	173.8	68503
3926+00	0.01	41.37	0.13	185.18	68318
3927+00	0.09	37.9	0.19	198.18	68120
3928+00	0.02	47.4	0.2	213.25	67907
3929+00	0	51.3	0.04	246.75	67660
3930+00	0.06	49.6	0.11	252.25	67408
3931+00	0	52.53	0.11	255.32	67153
3932+00	0.38	46.08	0.7	246.53	66907

3933+00	0.03	44.28	0.76	225.9	66682
3934+00	53.8	44.47	99.69	221.88	66560
3935+00	35.64	47.55	165.63	230.05	66495
3936+00	24.4	49.18	111.19	241.82	66365
3937+00	19.19	47.73	80.72	242.28	66203
3938+00	18.55	51.33	69.89	247.65	66025
3939+00	15.15	46.09	62.41	243.55	65844
3940+00	20.92	49.17	66.8	238.15	65673
3941+00	20.87	89.43	133.41	677.6	65129
3942+00	18.42	38.97	72.76	321	64880
3943+00	6.6	2.44	46.33	103.53	64260
3944+00	0.04	44.92	12.3	118.4	64154
3945+00	0.02	42.85	0.11	219.43	63935
3946+00	0.02	32.64	0.07	188.73	63746
3947+00	0.1	31.99	0.22	161.58	63585
3948+00	0.11	29.68	0.39	154.18	63431
3949+00	0.24	30.04	0.65	149.3	63282
3950+00	0.13	13.91	0.69	109.88	62673
3951+00	0.28	36.1	0.76	125.03	62549
3952+00	0.19	38.79	0.87	187.23	62362
3953+00	0.1	45.14	0.54	209.83	62153
3954+00	0	50.67	0.19	239.53	61914
3955+00	0	48.49	0	247.9	61666
3956+00	0	48.4	0	242.23	61424
3957+00	0	42.5	0	227.25	61196
3958+00	34.89	41.3	64.61	209.5	61051
3959+00	42.75	34.69	143.78	189.97	61005
3960+00	40.59	47.71	154.33	206	60954
3961+00	35.73	46.7	141.33	236.03	60859
3962+00	38.71	45.22	137.85	229.8	60767
3963+00	39	45.23	143.91	226.12	60685
3964+00	34.21	51.69	135.57	242.3	60578
3965+00	0	50.04	63.35	254.32	60387
3966+00	31.09	36.45	57.57	216.22	60228
3967+00	41.9	41.14	135.17	193.98	60170
3968+00	30.26	46.46	133.63	219	60084
3969+00	40.67	46.78	131.35	233.1	59607
3970+00	0	47.93	75.31	236.78	59446
3971+00	0.05	38.72	0.09	216.63	59229
3972+00	0.01	37.8	0.11	191.3	59038
3973+00	0.11	45.65	0.22	208.62	58830
3974+00	0	50.84	0.2	241.23	58589
3975+00	0	55.97	0	267.03	58322

3976+00	0	62.8	0	296.93	58025
3977+00	0	58.17	0	302.43	57722
3978+00	0	56	0	285.43	57437
3979+00	0	59.29	0	288.23	57149
3980+00	0	56.64	0	289.83	56859
3981+00	0	60.91	0	293.88	56565
3982+00	0	53.34	0	285.63	56279
3983+00	0	55.19	0	271.33	56008
3984+00	0.1	53.07	0.19	270.65	55738
3985+00	0.01	46.26	0.2	248.33	55490
3986+00	0	44.58	0.02	227.1	55262
3987+00	0	56.32	0	252.25	55010
3988+00	0	54.16	0	276.2	54734
3989+00	0.04	47.6	0.07	254.4	54480
3990+00	0	49.73	0.07	243.33	54236
3991+00	0.05	58.22	0.09	269.87	53967
3992+00	0	61.16	0.09	298.45	53668
3993+00	0.02	44.61	0.04	264.43	53404
3994+00	0.09	46.05	0.2	226.65	53177
3995+00	0.01	53.72	0.19	249.43	52928
3996+00	2.38	1.52	4.43	138.1	52232
3997+00	0	50.4	4.41	129.8	52106
3998+00	0	57.89	0	270.73	51835
3999+00	0	56.61	0	286.25	51549
4000+00	0	52.49	0	272.75	51276
4001+00	0	52.83	0	263.3	51013
4002+00	0	49.7	0	256.33	50757
4003+00	0	50.67	0	250.93	50506
4004+00	0	47.83	0	246.25	50260

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4005+00	0.01	46.47	0.02	235.75	50024
4006+00	0	47.79	0.02	235.65	49788
4007+00	0	44.4	0	230.48	49558
4008+00	0	44.35	0	221.88	49336
4009+00	0	47.08	0	228.58	49107
4010+00	0	1.01	0	120.23	48987
4011+00	0	48.28	0	123.22	48864
4012+00	0	46.37	0	236.63	48627
4013+00	0	48.94	0	238.28	48389
4014+00	0	42.32	0	228.15	48161
4015+00	0	57.75	0	250.18	47911
4016+00	0	54.78	0	281.32	47629
4017+00	0	58.83	0	284.03	47345
4018+00	0	50.42	0	273.13	47072
4019+00	0.03	54.42	0.06	262.1	46810
4020+00	0	37.89	0.06	230.78	46579
4021+00	0	37.97	0	189.65	46390
4022+00	0	31.63	0	174	45903
4023+00	0	44.73	0	190.9	45712
4024+00	0	44.32	0	222.63	45489
4025+00	0	43.62	0	219.85	45269
4026+00	0	46.35	0	224.93	45044
4027+00	0	43.77	0	225.3	44819
4028+00	0	47.87	0	229.1	43840
4029+00	0.05	42.74	0.09	226.53	43614
4030+00	0	42.08	0.09	212.05	43402
4031+00	0	44.4	0	216.2	43185
4032+00	0	46.56	0	227.4	42958
4033+00	0	50.93	0	243.73	42714
4034+00	0.01	48.83	0.02	249.4	42465
4035+00	0.15	44.43	0.3	233.15	42232
4036+00	0.14	45.02	0.54	223.63	42009
4037+00	0.06	40.39	0.37	213.53	41796
4038+00	0.03	39.87	0.17	200.65	41595
4039+00	0.05	46.01	0.15	214.7	41381
4040+00	1.66	19.9	3.17	164.78	40906
4041+00	0.3	43.98	3.63	159.7	40500
4042+00	3.27	16.85	6.61	152.08	40355
4043+00	0.33	43.7	6.67	151.38	40210
4044+00	0.29	30.45	1.15	185.38	40026
4045+00	0.31	33.87	1.11	160.8	39866
4046+00	0.47	31.78	1.44	164.13	39703
4047+00	0.24	37.59	1.31	173.43	39531

4048+00	0.01	40.6	0.46	195.48	39336
4049+00	0.14	30.62	0.28	178.05	38220
4050+00	0	44.1	0.26	186.8	38034
4051+00	0.27	39.96	0.5	210.15	37824
4052+00	0.22	36.45	0.91	191.03	37634
4053+00	0.16	35.99	0.7	181.1	37454
4054+00	0.19	34.54	0.65	176.33	37028
4055+00	0.1	49.02	0.54	208.9	36820
4056+00	0.17	55.66	0.5	261.7	36558
4057+00	0.32	48.96	0.91	261.55	36298
4058+00	0	53.39	0.59	255.88	36043
4059+00	0.37	46.04	0.69	248.57	35795
4060+00	0.06	51.38	0.8	243.55	35552
4061+00	0.16	52.34	0.41	259.3	35293
4062+00	0.22	58.72	0.7	277.65	35016
4063+00	0.12	58.43	0.63	292.88	34724
4064+00	0	58.96	0.22	293.48	34431
4065+00	0.14	50.87	0.26	274.57	34156
4066+00	0.26	57.09	0.74	269.9	33887
4067+00	0	55.65	0.48	281.85	33606
4068+00	0	53.82	0	273.68	33332
4069+00	0.04	53.38	0.07	268	33064
4070+00	0	48.35	0.07	254.33	32810
4071+00	0	44.68	0	232.58	32577
4072+00	0.01	45.43	0.02	225.28	32352
4073+00	0	43.33	0.02	221.9	32130
4074+00	0	45.73	0	222.65	31907
4075+00	0.01	42.41	0.02	220.35	31687
4076+00	0	47.5	0.02	224.78	31462
4077+00	0	52.56	0	250.15	30962
4078+00	1.83	61.26	3.39	284.55	30681
4079+00	0.07	49.88	3.52	277.85	30407
4080+00	0	49.27	0.13	247.88	30159
4081+00	0.02	51.29	0.04	251.4	29908
4082+00	0.06	50.23	0.15	253.8	29654
4083+00	0.6	48.76	1.22	247.48	29408
4084+00	0.28	47.84	1.63	241.5	29168
4085+00	0.06	49.29	0.63	242.83	28926
4086+00	0	46.92	0.11	240.53	28685
4087+00	0	39.03	0	214.88	28470
4088+00	0.14	39.99	0.26	197.55	28273
4089+00	0	52.21	0.26	230.5	28043
4090+00	0	34.41	0	216.55	27826

4091+00	0.02	35.09	0.04	173.75	27653
4092+00	0	41.07	0.04	190.4	27462
4093+00	0.26	37.65	0.48	196.8	27266
4094+00	0	48.06	0.48	214.28	27052
4095+00	0	42.8	0	227.15	26825
4096+00	0	44.01	0	217.03	26608
4097+00	0	40.49	0	211.25	26397
4098+00	0	45.68	0	215.43	26181
4099+00	0	55.42	0	252.75	25928
4100+00	0	59.63	0	287.63	25141
4101+00	3.03	2.36	0	0	25141
4102+00	0	58.85	5.61	141.69	25005
4103+00	0	62.45	0	280.79	24724
4104+00	0	74.36	0	316.69	24032
4105+00	0	44.32	0	274.72	23758
4106+00	0.3	48.66	0.56	215.23	23543
4107+00	0	56.25	0.56	242.85	23301
4108+00	0	51.11	0	248.52	23052
4109+00	0.46	50.37	0.85	234.91	22818
4110+00	0.38	43.96	1.56	218.36	22601
4111+00	0	50.65	0.7	219	22383
4112+00	0	53.86	0	241.92	22141
4113+00	0.24	31.28	0.44	197.08	21694
4114+00	0	51.16	0.44	190.83	21504
4115+00	0.1	50.84	0.19	236.11	21268
4116+00	0	40.57	0.19	211.6	20682
4117+00	0.05	38.42	0.09	182.85	20499
4118+00	0	49.72	0.09	204.03	19982
4119+00	0.73	23.75	1.35	170.07	19813

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Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	20

4120+00	0.67	36.9	2.59	140.39	19675
4121+00	0.44	38.28	2.06	174.03	19503
4122+00	0	47.2	0.81	197.87	19306
4123+00	0	61.41	0	251.41	19055
4124+00	0	59.43	0	279.72	18775
4125+00	0	60.72	0	278.13	18497
4126+00	0	59.36	0	277.96	18219
4127+00	0	51.71	0	257.11	17962
4128+00	0.11	47.6	0.2	229.88	17732
4129+00	0	20.86	0.2	158.47	17574
4130+00	0.03	59.76	0.06	186.62	17388
4131+00	0.03	47.38	0.11	248.01	17140
4132+00	0	47.38	0.06	219.35	16920
4133+00	0	40.57	0	203.59	16717
4134+00	0.04	35.36	0.07	175.76	16541
4135+00	0	39.03	0.07	172.2	16369
4136+00	0.43	36.64	0.8	175.16	16195
4137+00	0	35.39	0.8	166.74	16029
4138+00	0	37.99	0	169.86	15859
4139+00	0	43.71	0	189.12	15670
4140+00	0	37.15	0	187.18	15482
4141+00	0	38.5	0	175.12	15307
4142+00	0	43.26	0	189.26	15118
4143+00	0	44.12	0	202.27	14916
4144+00	0	45.01	0	206.32	14710
4145+00	0	41.31	0	199.81	14510
4146+00	0	43.39	0	196.06	14314
4147+00	0	51.3	0	219.19	14094
4148+00	0	64.37	0	267.75	13827
4149+00	0	67.24	0	304.65	13147
4150+00	0	60.73	0	296.23	12851
4151+00	0.31	44.75	0.57	244.17	12607
4152+00	0	20.99	0.57	152.18	11956
4153+00	0	43.9	0	150.21	11805
4154+00	0	44.38	0	204.35	10726
4155+00	14.45	33.47	26.76	180.21	10573
4156+00	0.04	57.57	26.83	210.74	10389
4157+00	0.06	56.44	0.19	263.91	10125
4158+00	0.47	63.24	0.98	277.04	9849
4159+00	0.75	52.74	2.26	268.47	9583
4160+00	0.11	44.38	1.59	224.81	9359
4161+00	0.61	30.46	1.33	173.24	9188
4162+00	0.88	35.4	2.76	152.45	9038

4163+00	0.46	38.35	2.48	170.72	8870
4164+00	0.26	41.33	1.33	184.44	8687
4165+00	0	43.73	0.48	196.9	8490
4166+00	0.06	53.45	0.11	224.95	8265
4167+00	0.73	44.91	1.46	227.68	8039
4168+00	0.25	44.45	1.81	206.85	7834
4169+00	0.62	36.38	1.61	187.11	7649
4170+00	0	37.12	1.15	170.14	7480
4171+00	0.25	43.24	0.46	186.02	7294
4172+00	0.36	40.69	1.13	194.28	7101
4173+00	0	35.87	0.67	177.22	6924
4174+00	0.31	32.55	0.57	158.38	6766
4175+00	0	41.06	0.57	170.39	6597
4176+00	0	38.92	0	185.14	5786
4177+00	2.15	14.79	3.98	124.33	5666
4178+00	0.11	30.4	4.19	104.61	5566
4179+00	0.47	27.81	1.07	134.75	5432
4180+00	0.14	116.01	1.13	332.92	5100
4181+00	0.35	22.56	0.91	320.76	4780
4182+00	2.19	38.19	4.7	140.63	4644
4183+00	0.96	37.96	5.83	176.27	4474
4184+00	2.02	48.14	5.52	199.31	4280
4185+00	0.78	41.67	5.19	207.89	4078
4186+00	0.6	51.73	2.56	216.2	3864
4187+00	0.83	43.26	2.65	219.88	3397
4188+00	0.97	42.94	3.33	199.54	3200
4189+00	0.43	41.35	2.59	195.12	3008
4190+00	0.39	32.2	1.52	170.25	2839
4191+00	0	39.53	0.72	166.04	2674
4192+00	0	48.15	0	202.96	2471
4193+00	10.38	18.79	19.22	154.95	2210
4194+00	0	45.35	19.22	148.47	2081
4195+00	0	58.26	0	239.84	1841
4196+00	0	62.74	0	280.09	1561
4197+00	0.67	20	1.24	191.53	1371
4198+00	0	31.44	1.24	119.07	1253
4199+00	0.01	38.88	0.02	162.78	1090
4200+00	0.24	32.94	0.46	166.25	924
4201+00	0.7	7.8	1.74	94.31	832
4202+00	0.81	30.58	2.8	88.84	746
4203+00	0	40.73	1.5	165.07	582
4204+00	0	46.13	0	201.06	381
4205+00	0	60.51	0	246.85	134

4206+00	0.03	58.51	0.06	275.51	-141
4207+00	0	60.86	0.06	276.32	-417
4208+00	0.11	67.61	0.2	297.38	-715
4209+00	0.31	61.38	0.78	298.59	-1387
4210+00	0.25	63.43	1.04	288.91	-1675
4211+00	0.14	56.57	0.72	277.78	-2827
4212+00	7.43	14.93	14.02	165.51	-2979
4213+00	149.82	59.34	291.2	171.92	-2860
4214+00	161.16	57.52	575.89	270.51	-2554
4215+00	172.03	85.16	617.02	330.28	-2267
4216+00	157.52	113.05	610.28	458.82	-2116
4217+00	153.98	96.19	576.85	484.35	-2024
4218+00	119.96	99.15	507.3	452.18	-1968
4219+00	0.45	98.15	222.98	456.71	-2202
4220+00	0.34	111.41	1.46	485.09	-2686
4221+00	0.56	68.81	1.67	417.18	-3351
4222+00	3.91	25.23	8.28	217.69	-3811
4223+00	0	25.04	7.24	116.37	-3920
4224+00	2.07	22.12	3.83	109.17	-4275
4225+00	1.16	39.43	5.98	142.48	-4412
4226+00	0.84	40.29	3.7	184.54	-4592
4227+00	0.65	43.03	2.76	192.87	-4783
4228+00	0.25	39.97	1.67	192.13	-4973
4229+00	0.56	35.52	1.5	174.75	-5146
4230+00	0.62	33.7	2.19	160.23	-5554
4231+00	0.29	31.16	1.69	150.14	-5703
4232+00	0.14	32.5	0.8	147.36	-5849
4233+00	0.17	29.29	0.57	143.03	-5992
4234+00	0.01	36.7	0.33	152.75	-6144

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4235+00	0.15	1.13	0.3	87.57	-6232
4236+00	0.18	1.12	0.61	5.21	-6236
4237+00	0.98	1.17	2.15	5.3	-6239
4238+00	0	1.46	1.81	6.09	-6244
4239+00	0	1.4	0	6.62	-6250
4240+00	0	1.33	0	6.32	-6256
4241+00	0.22	1.5	0.41	6.55	-6263
4242+00	0.76	1.91	1.81	7.89	-6269
4243+00	0	4.68	1.41	15.25	-6533
4244+00	0.44	1.5	0.81	14.31	-6546
4245+00	1.91	31.36	4.35	76.06	-6618
4246+00	0.92	37.91	5.24	160.35	-6898
4247+00	0.6	44.81	2.81	191.48	-7087
4248+00	1.18	39.27	3.3	194.63	-7528
4249+00	0	22.41	2.19	142.78	-7668
4250+00	0	52.55	0	173.52	-7842
4251+00	0	39.91	0	214.03	-8056
4252+00	0	40.16	0	185.35	-8241
4253+00	0	8.34	0	112.27	-8354
4254+00	0	60.87	0	160.21	-8514
4255+00	0.4	54.97	0.74	268.15	-8781
4256+00	0.53	54	1.72	252.25	-9032
4257+00	0.17	60.71	1.3	265.53	-9296
4258+00	0.38	53.63	1.02	264.68	-9560
4259+00	0.8	49.69	2.19	239.17	-9797
4260+00	0.48	49.13	2.37	228.75	-10023
4261+00	0	56.19	0.89	243.8	-10266
4262+00	0.2	48.06	0.37	241.32	-10507
4263+00	1.01	37.77	2.24	198.68	-10703
4264+00	0	43.76	1.87	188.73	-10890
4265+00	0.4	35.57	0.74	183.63	-11386
4266+00	0.4	42.54	1.48	180.81	-11565
4267+00	0.96	53.83	2.52	223.08	-11911
4268+00	0.43	66.97	2.57	279.63	-12188
4269+00	0.35	82.63	1.44	346.3	-12533
4270+00	0.17	68.88	0.96	350.72	-12883
4271+00	0.12	69.3	0.54	319.86	-13202
4272+00	0.2	32.96	0.59	236.71	-13438
4273+00	2.18	24.26	4.41	132.45	-13879
4274+00	0.29	52.67	4.57	178.08	-14053
4275+00	0.77	41.73	1.96	218.52	-14269
4276+00	0.69	30.14	2.7	166.37	-14433
4277+00	0.16	48.42	1.57	181.85	-14613
4278+00	0.03	44.91	0.35	216.04	-14829
4279+00	0.2	46.69	0.43	212.04	-15040
4280+00	0.34	37.51	1	194.91	-15234
4281+00	0.37	32.32	1.31	161.64	-15395
4282+00	0.17	28.14	1	139.95	-15534
4283+00	0.38	26.76	1.02	127.08	-15660
4284+00	0.22	37.55	1.11	148.87	-16057
4285+00	2.37	23.75	4.8	141.9	-16195
4286+00	0	47.15	4.39	164.12	-16354
4287+00	0	41.42	0	205.02	-16559
4288+00	0	29.48	0	164.12	-16723
4289+00	0	25.27	0	126.74	-16850
4290+00	0.39	22.82	0.72	111.32	-16961
4291+00	0	38.57	0.72	142.11	-17102
4292+00	0.47	36.94	0.87	174.79	-17276
4293+00	0.25	43.83	1.33	186.97	-17462
4294+00	0.04	70.06	0.54	263.63	-17975
4295+00	0.29	57.65	0.61	295.63	-18270
4296+00	0	70.54	0.54	296.74	-18566
4297+00	0	55.63	0	292.06	-18858
4298+00	0.59	45.91	1.09	235.05	-19092
4299+00	2.22	26.18	5.2	166.88	-19567
4300+00	0.26	54.94	4.59	187.78	-19750
4301+00	0	64.06	0.48	275.46	-20025
4302+00	0.12	55.74	0.22	277.32	-20302
4303+00	0	50.69	0.22	246.37	-20548
4304+00	0.49	51.37	0.91	236.25	-20783
4305+00	0.04	58.26	0.98	253.77	-21036
4306+00	0.33	47.59	0.69	245.02	-21531
4307+00	0	52.31	0.61	231.25	-21761
4308+00	0	47.65	0	231.39	-21993
4309+00	1.7	28.65	3.15	176.62	-22479
4310+00	0	49.57	3.15	181.06	-22657
4311+00	0	53.12	0	237.71	-22895
4312+00	0	49.46	0	237.45	-23132
4313+00	0	53.13	0	237.48	-23370
4314+00	0.01	62.05	0.02	266.62	-23636
4315+00	0	55.92	0.02	273.08	-23909
4316+00	0	58.71	0	265.35	-24175
4317+00	0	62.92	0	281.55	-24456
4318+00	0	52.98	0	268.29	-24724
4319+00	0	49.87	0	238.08	-24963
4320+00	0.36	39.34	0.67	206.5	-25168
4321+00	0.3	40.95	1.22	185.86	-25353
4322+00	0.46	42.8	1.41	193.87	-25546
4323+00	0.7	39.01	2.15	189.38	-25733
4324+00	0.33	39.42	1.91	181.55	-25912
4325+00	0.22	40.03	1.02	183.91	-26095
4326+00	0.27	35.26	0.91	174.28	-26269
4327+00	0.42	18.7	1.28	124.91	-26392
4328+00	0.05	50.04	0.87	159.12	-26551
4329+00	0.23	54.9	0.52	242.92	-26793
4330+00	0.08	56.95	0.57	258.91	-27051
4331+00	0.14	62.41	0.41	276.3	-27327
4332+00	0.05	54.28	0.35	270.12	-27597
4333+00	0.01	73.17	0.11	295.02	-27892
4334+00	0.18	67.32	0.35	325.21	-28217
4335+00	0.18	83.97	0.67	350.21	-28879
4336+00	6.07	1.22	11.57	197.2	-29378
4337+00	0	53.79	11.24	127.34	-29494
4338+00	0.49	40.7	0.91	218.73	-29712
4339+00	0.24	47.78	1.35	204.81	-29915
4340+00	0.24	44.13	0.89	212.75	-30127
4341+00	0.31	49.05	1.02	215.69	-30342
4342+00	0.22	47.71	0.98	223.98	-30565
4343+00	0.34	32.25	1.04	185.09	-30749
4344+00	0.27	23.29	1.13	128.56	-30876
4345+00	0.15	33.26	0.78	130.9	-31256
4346+00	0.07	31.25	0.41	149.33	-31405
4347+00	138.76	43.2	257.09	172.34	-31321
4348+00	147.94	41.9	530.93	196.99	-30987
4349+00	101.06	37.65	461.11	184.14	-30710

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4350+00	0	103.3	187.15	326.27	-30849
4351+00	0.01	100.17	0.02	471	-31320
4352+00	0	92.47	0.02	445.93	-31766
4353+00	0.34	87.75	0.63	417.18	-32182
4354+00	0.06	62.45	0.74	347.69	-32529
4355+00	0.02	71.61	0.15	310.32	-32839
4356+00	0.22	65.53	0.44	317.45	-33156
4357+00	0.58	13.88	1.48	183.82	-33339
4358+00	0.8	59.78	2.56	170.51	-33507
4359+00	0.19	19.45	1.83	183.4	-33688
4360+00	0.08	88.97	0.5	250.97	-33939
4361+00	0.21	56.62	0.54	337.01	-34275
4362+00	0	73.56	0.39	301.34	-34576
4363+00	0	57.5	0	303.38	-34879
4364+00	0	54.36	0	258.94	-35138
4365+00	34.31	54.33	63.54	251.6	-35326
4366+00	40.91	45.13	139.3	230.23	-35417
4367+00	38.81	63.51	147.63	251.48	-35521
4368+00	50.59	60.48	165.56	287.01	-35643
4369+00	0	53.66	93.69	264.21	-35813
4370+00	0	62.5	0	268.89	-36082
4371+00	0	58.84	0	280.88	-36488
4372+00	0	46.66	0	244.21	-36732
4373+00	0	62.78	0	253.33	-36986
4374+00	0	48.72	0	258.1	-37244
4375+00	0	51.8	0	232.69	-37476
4376+00	0	54.9	0	246.99	-37723
4377+00	0	50.65	0	244.33	-37968
4378+00	0	53.03	0	240	-38208
4379+00	0.14	48.11	0.26	234.12	-38441
4380+00	0	49.64	0.26	226.27	-38667
4381+00	0	47.13	0	224	-38891
4382+00	0.4	2.98	0.74	116	-39632
4383+00	0	50.49	0.74	123.77	-39755
4384+00	0	38.15	0	205.19	-39960
4385+00	0	34.62	0	168.45	-40128
4386+00	0	43.21	0	180.16	-40309
4387+00	0.38	48.81	0.7	213.01	-40521
4388+00	0.2	43.29	1.07	213.19	-40733
4389+00	10.01	1.43	18.91	103.52	-41318
4390+00	0	51.08	18.54	121.55	-41421
4391+00	0	45.63	0	223.87	-41644
4392+00	0.13	49.5	0.24	220.21	-41864

4393+00	0	46.13	0.24	221.37	-42086
4394+00	0	44.6	0	210.02	-42296
4395+00	0.93	16.23	1.72	140.81	-42435
4396+00	0	36.76	1.72	122.66	-42556
4397+00	0	32.58	0	160.51	-43466
4398+00	0	39.63	0	167.15	-43633
4399+00	0.02	44.94	0.04	195.76	-43829
4400+00	0	39.67	0.04	195.86	-44025
4401+00	0.1	37.47	0.19	178.56	-44203
4402+00	0.01	52.78	0.2	208.91	-44412
4403+00	0	54.92	0.02	249.31	-44661
4404+00	0	46.36	0	234.44	-44896
4405+00	0	43.6	0	208.24	-45104
4406+00	0	55.3	0	228.94	-45333
4407+00	0	42.38	0	226.11	-45559
4408+00	0	40.47	0	191.78	-45751
4409+00	0.03	37.03	0.06	179.4	-45930
4410+00	0	39.13	0.06	176.3	-46106
4411+00	0.05	36.26	0.09	174.51	-46781
4412+00	0.04	42.84	0.17	183.1	-46964
4413+00	0	35.09	0.07	180.39	-47144
4414+00	0	37.41	0	167.82	-47312
4415+00	0.6	39.38	1.11	177.75	-47488
4416+00	0.11	37.01	1.31	176.83	-47664
4417+00	0	23.19	0.2	139.35	-47803
4418+00	0	31.7	0	127.06	-47930
4419+00	0	42.87	0	172.62	-48103
4420+00	0	40.05	0	191.94	-48295
4421+00	0	49.41	0	207.08	-48502
4422+00	0	46.18	0	221.27	-48723
4423+00	0	52.62	0	228.7	-49202
4424+00	3.43	19.87	6.35	167.8	-49363
4425+00	0	40.14	6.35	138.91	-49496
4426+00	0	46.77	0	201.18	-49697
4427+00	0	48.76	0	221.13	-49918
4428+00	0.29	35.5	0.54	195.05	-50363
4429+00	0	33.82	0.54	160.46	-50523
4430+00	0	55.94	0	207.78	-50730
4431+00	0	62.54	0	274.26	-51005
4432+00	0.04	58.06	0.07	279.17	-51284
4433+00	0.05	43.39	0.17	234.84	-51518
4434+00	0.33	29.16	0.7	167.94	-51686
4435+00	0	27.4	0.61	130.93	-51816

4436+00	0.04	41.28	0.07	158.98	-51975
4437+00	0.13	29.94	0.31	164.86	-52139
4438+00	0.04	31.34	0.31	141.85	-52281
4439+00	0.07	36.28	0.2	156.53	-52437
4440+00	0.03	40.27	0.19	177.2	-52864
4441+00	0.82	12.88	1.57	123.03	-52986
4442+00	5.5	1.73	11.7	33.82	-53508
4442+50	27.88	0.43	0	0	-53508
4443+00	28.84	0.38	52.52	0.94	-53456
4443+50	55.71	0.23	78.29	0.71	-53379
4444+00	38.5	1.19	87.23	1.64	-53293
4444+50	34.85	1.8	67.92	3.46	-53229
4445+00	27.04	0.85	57.31	3.07	-53174
4445+50	24.08	0.4	47.33	1.45	-53128
4446+50	38.85	0	116.54	0.93	-53013
4447+00	38.41	0	71.54	0	-52941
4447+50	36.56	0	69.42	0	-52872
4448+00	33.36	0	64.74	0	-52807
4448+50	30.56	0	59.19	0	-52748
4449+00	33.09	0	58.94	0	-52689
			Volume (CY)		
			Exca	Fill	Mass Ordinate
Totals			106,465	373076	

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Earthwork Values

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	11	23

Right of Way / Reference Monuments & Markers

Station	Offset	Iron Pin R/W Monument	R/W Marker (Witness Post)	Iron Pin Reference Monument
3146+17.88	-348.00	X	X	
3148+63.80	-100.02	X	X	
3169+93.82	-100.00		X	X
3169+93.83	100.00		X	X
3171+93.83	-100.00		X	X
3171+93.87	100.00		X	X
3196+48.18	-100.00		X	X
3196+48.17	100.00		X	X
3198+46.85	-100.00		X	X
3198+49.56	100.00		X	X
3223+53.63	-100.01		X	X
3223+53.63	100.01		X	X
3248+40.03	-100.00		X	X
3248+40.03	100.00		X	X
3250+40.07	-100.00		X	X
3250+40.05	100.00		X	X
3274+82.68	-100.00		X	X
3274+82.68	100.00		X	X
3276+82.63	-100.00		X	X
3276+82.78	100.00		X	X
3301+31.97	-100.00		X	X
3301+31.97	100.00		X	X
3303+34.30	-100.00		X	X
3328+79.28	-100.01		X	X
3328+79.28	100.01		X	X
3339+21.28	-120.02	X	X	
3339+21.28	-100.01	X	X	
3339+21.28	100.01	X	X	
3339+21.28	120.02	X	X	
3353+67.68	-120.02		X	X
3353+67.68	120.02		X	X
3355+87.68	-100.01		X	X
3355+87.74	100.01		X	X
3380+45.57	-100.01		X	X
3380+45.57	100.01		X	X
3382+45.61	-100.01		X	X
3382+45.58	100.01		X	X
3388+19.58	100.01	X	X	
3388+19.58	150.02	X	X	
3393+18.87	-150.02	X	X	
3393+18.87	-100.01	X	X	
3406+63.85	-150.02		X	X
3406+63.85	150.02		X	X
3409+14.60	-100.01		X	X
3409+13.16	100.01		X	X
3434+35.06	-100.01		X	X
3434+35.06	100.01		X	X
3459+75.35	-100.01		X	X
3459+75.35	100.01		X	X
3461+74.84	-100.01		X	X
3461+75.91	100.01		X	X
3480+17.96	100.01	X		
3480+17.96	150.02	X		
3487+10.60	-100.01	X	X	
3487+11.12	-150.02	X	X	
3495+36.53	-150.02	X	X	
3495+36.53	150.02	X	X	
3502+67.17	-149.66	X	X	
3508+08.75	-149.60	X	X	
3512+01.69	150.47		X	X
3521+97.36	120.57	X	X	
3531+86.04	-119.91	X	X	
3539+59.23	-120.00	X	X	
3539+59.23	120.28	X	X	
3539+85.62	120.17	X	X	
3539+81.39	150.26	X	X	
3550+31.34	-151.36	X	X	
3550+31.34	148.68	X	X	
3553+08.74	-151.19	X	X	
3553+08.74	-101.18	X	X	
3553+08.74	98.84	X	X	
3553+08.74	148.85	X	X	
3557+90.00	-100.89	X	X	
3557+90.00	-200.89	X	X	
3559+90.00	-200.77	X	X	
3559+90.00	-100.77	X	X	
3570+55.56	-100.12	X	X	

Right of Way / Reference Monuments & Markers

Station	Offset	Iron Pin R/W Monument	R/W Marker (Witness Post)	Iron Pin Reference Monument
3570+55.56	99.91	X	X	
3570+94.14	-100.11	X	X	
3570+94.17	-170.11	X	X	
3571+48.90	-170.09	X	X	
3572+21.90	-190.08	X	X	
3573+65.88	-190.03	X	X	
3573+65.85	-120.03	X	X	
3574+00.55	-120.02	X	X	
3598+67.23	-120.03		X	X
3598+67.23	120.01		X	X
3608+79.01	-120.02	X	X	
3608+79.28	-100.02	X	X	
3608+81.99	100.01		X	
3608+82.27	120.01		X	
3620+81.90	-150.02	X	X	
3620+81.90	-100.02	X	X	
3623+72.84	-150.02		X	X
3624+22.85	100.02		X	X
3626+72.28	-150.02		X	X
3633+08.77	-150.02	X	X	
3633+08.77	-120.02	X	X	
3640+08.77	100.02	X	X	
3640+08.70	120.02	X		
3651+65.20	-120.02		X	X
3651+65.20	120.02		X	X
3676+87.52	-120.02		X	X
3676+87.52	120.02		X	X
3679+82.18	-175.02		X	X
3692+96.23	-175.02	X	X	
3703+58.73	-100.01		X	X
3703+58.73	100.02		X	X
3704+58.59	-150.02	X	X	
3704+58.65	-100.01	X	X	
3704+59.09	100.02	X	X	
3704+59.26	150.02	X	X	
3706+07.56	-150.02		X	X
3706+09.99	150.02		X	X
3714+97.45	-150.02	X	X	
3714+97.45	-100.01	X	X	
3717+97.45	100.02	X		
3717+97.45	150.02	X	X	
3730+15.44	-100.02		X	X
3730+15.44	100.01		X	X
3732+15.47	-100.02		X	X
3732+15.47	100.01		X	X
3738+80.29	-100.01	X	X	
3738+80.29	100.01	X	X	
3738+80.29	150.02	X	X	
3751+97.05	-100.01	X	X	
3757+61.27	-100.01		X	X
3757+62.08	150.03		X	X
3760+96.49	-100.01	X		
3782+10.76	150.02		X	X
3784+41.23	-82.01		X	X
3810+08.56	-82.01		X	X
3810+08.56	75.01		X	X
3835+81.32	75.01		X	X
3837+38.24	-82.01		X	X
3862+19.04	-82.01		X	X
3862+26.04	75.01		X	X
3863+83.06	-82.01		X	X
3863+76.07	75.01		X	X
3888+71.71	-82.01		X	X
3888+78.70	75.01		X	X
3890+35.93	-82.01		X	X
3915+51.21	-82.01		X	X
3915+58.21	75.01		X	X
3917+15.23	-82.01		X	X
3917+08.24	75.01		X	X
3942+30.72	-82.01			X
3942+37.72	75.01		X	X
3943+95.00	-82.01		X	X
3968+80.97	-82.01		X	X
3968+87.97	75.01		X	X
3970+44.99	-82.01		X	X
3970+37.99	75.01		X	X
3995+38.21	75.01		X	X

Right of Way / Reference Monuments & Markers

Station	Offset	Iron Pin R/W Monument	R/W Marker (Witness Post)	Iron Pin Reference Monument
3996+95.42	-82.01		X	X
3996+73.19	60.01		X	X
4022+75.06	-82.01		X	X
4022+75.06	60.01		X	X
4048+76.90	60.01		X	X
4050+20.63	-82.01		X	X
4049+95.69	60.01		X	X
4075+12.74	-82.01		X	X
4075+12.74	60.01		X	X
4100+06.57	-82.01			X
4100+28.57	60.01		X	X
4101+69.95	-82.01		X	X
4101+64.19	75.01		X	X
4127+74.64	-82.01		X	X
4127+74.64	75.01		X	X
4149+33.38	-82.01	X	X	
4149+33.38	75.01	X	X	
4153+92.59	-82.00		X	X
4153+64.71	75.02		X	X
4154+67.27	-92.12		X	X
4157+07.88	75.02		X	X
4160+08.03	-75.01	X	X	
4160+08.03	75.01	X	X	
4183+23.61	-75.01	X	X	
4184+84.33	-75.00		X	X
4184+84.33	75.00		X	X
4189+94.82	75.01	X	X	
4202+40.72	-75.01	X	X	
4202+40.72	75.01	X	X	
4219+74.54	-75.01	X	X	
4239+45.70	-75.01	X	X	
4239+45.70	75.01	X		
4251+47.94	-75.01	X	X	
4251+47.94	75.00	X	X	
4256+04.62	-75.01	X	X	
4256+04.62	75.00	X	X	
4271+86.78	-75.01	X	X	
4271+86.78	75.01	X	X	
4305+05.23	-75.01		X	X
4305+05.23	75.01		X	X
4315+12.43	-75.01		X	X
4315+12.43	75.01		X	X
4330+02.22	-75.01	X		
4330+02.22	75.01	X	X	
4342+23.93	-75.01	X		
4342+23.93	75.01	X		
4346+68.93	100.01	X	X	
4350+68.93	75.01	X	X	
4350+68.93	100.01	X	X	
4362+61.45	-75.01		X	X
4362+61.45	75.01		X	X
4388+33.54	-75.01		X	X
4388+33.54	75.01		X	X
4389+82.09	-75.00		X	X
4389+85.06	75.01		X	X
4415+59.87	-75.00		X	X
4415+59.87	75.01		X	X
4439+97.38	-75.01	X	X	
4439+95.55	-40.01	X	X	
4441+70.78	-40.01		X	X
4441+35.78	75.01		X	X
4442+50.15	-40.01		X	X
4442+51.45	40.01		X	X
4460+63.69	-40.01	X	X	
4460+63.69	40.01	X	X	
4464+65.89	-58.02	X	X	
4464+65.89	32.95	X	X	
4467+84.22	-83.12		X	X
4468+34.39	32.95		X	X
4469+52.35	-85.01		X	X
4469+07.34	40.01		X	X
4480+65.41	-60.16	X	X	
4480+65.41	70.00	X	X	
4482+54.13	70.00	X	X	
4485+82.09	70.01	X	X	
Total		**99**	**218**	**128**

Alignment Monuments

Station	Offset	Description	Monument per Standard D-720-1	Point Number
3145+07.39	0.00	POT - Intersection	X	
3170+93.84	0.00	QTR COR		1256
3197+48.19	0.00	SEC COR	X	1013
3223+53.63	0.00	QTR COR	X	1016
3249+40.05	0.00	SEC COR	X	1021
3275+82.69	0.00	QTR COR		1024
3302+31.99	0.00	SEC COR	X	1031
3328+79.28	0.00	QTR COR	X	1034
3354+87.70	0.00	SEC COR	X	1039
3381+45.58	0.00	QTR COR		1042
3408+13.87	0.00	SEC COR	X	1047
3434+35.06	0.00	QTR COR	X	1050
3460+75.36	0.00	SEC COR	X	1054
3487+09.57	0.00	QTR COR		1268
3495+36.53	0.00	PC	X	
3499+02.35	-11.67	PI - C1	X	1275
3502+67.17	0.00	PT	X	
3513+52.16	0.00	SEC XING	X	
3521+97.36	0.00	PC	X	
3526+94.48	32.21	PI - C2	X	1304
3531+86.04	0.00	PT	X	
3539+59.23	0.00	PC	X	
3540+01.65 Bk Tan Sta	-0.31	SEC - TAN XING	X	
3544+95.29	-50.90	PI - C3	X	1311
3550+31.34	0.00	PT	X	
3570+55.56	0.00	PC	X	
3572+12.23 Bk Tan Sta	8.61	SEC - TAN XING	X	
3572+28.89	10.45	PI - C4	X	1075
3574+00.54	0.00	PT	X	
3598+67.23	0.00	QTR XING	X	
3625+22.87	0.00	SEC XING	X	
3651+65.20	0.00	QTR XING	X	
3678+07.54	0.00	SEC XING	X	
3704+58.75	0.00	QTR XING		
3731+15.45	0.00	SEC XING	X	
3757+62.08	0.00	QTR XING		
3783+60.78	0.00	SEC XING	X	
3810+08.56	0.00	QTR XING	X	
3836+56.33	0.00	SEC XING	X	
3863+01.05	0.00	QTR XING		
3889+53.72	0.00	TWP XING	X	
3916+33.22	0.00	QTR XING		
3943+12.73	0.00	SEC XING	X	
3969+62.98	0.00	QTR XING		
3996+13.22	0.00	SEC XING	X	
4022+75.06	0.00	QTR XING	X	
4049+36.91	0.00	SEC XING	X	
4075+12.74	0.00	QTR XING	X	
4100+88.58	0.00	SEC XING	X	
4127+74.64	0.00	QTR XING	X	

Alignment Monuments

Station	Offset	Description	Monument per Standard D-720-1	Point Number
4149+33.38	0.00	TS	X	
4154+51.94 Bk Tan Sta	-49.20	SEC - TAN XING	X	
4154+81.10	-56.73	PI - SCS1	X	
4160+08.03	0.00	ST	X	
4183+23.61	0.00	TS	X	
4184+84.36 Bk Tan Sta	1.61	QTR - TAN XING	X	
4186+60.55	14.75	PI - SCS2	X	
4189+94.82	0.00	ST	X	
4202+40.72	0.00	TS	X	
4211+75.54	203.24	PI - SCS3	X	1341
4211+55.47	174.78	TWP - TAN XING	X	
4219+74.54	0.00	ST	X	
4239+45.70	0.00	TS	X	
4245+63.15	-76.85	PI - SCS4	X	1359
4245+98.61	-60.25	QTR - TAN XING	X	
4249+31.03	-3.96	SEC - TAN XING	X	
4251+47.94	0.00	ST	X	
4256+04.62	0.00	TS	X	
4264+21.57	-114.97	PI - SCS5	X	
4266+16.51	-49.20	SEC - TAN XING	X	
4271+86.78	0.00	TS	X	
4305+05.23	0.00	QTR XING	X	
4315+12.43	0.00	QTR XING	X	
4330+02.22	0.00	TS	X	
4336+30.48	80.23	PI - SCS6	X	1206
4336+29.50	74.57	SEC - TAN XING	X	
4342+23.93	0.00	ST	X	
4362+61.45	0.00	QTR XING	X	
4389+08.55	0.00	SEC XING	X	
4415+59.87	0.00	QTR XING	X	
4442+10.79	0.00	SEC XING	X	
4460+63.69	0.00	PC	X	
4462+64.87	-3.53	PI - C5	X	
4464+65.89	0.00	PT	X	
4468+67.34	0.00	QTR XING		
4480+65.41	0.00	PI	X	1390
4482+54.13	0.00	PC	X	
4484+18.12	1.17	PI - C6	X	1389
4485+82.09	0.00	PT	X	
Total			**80**	

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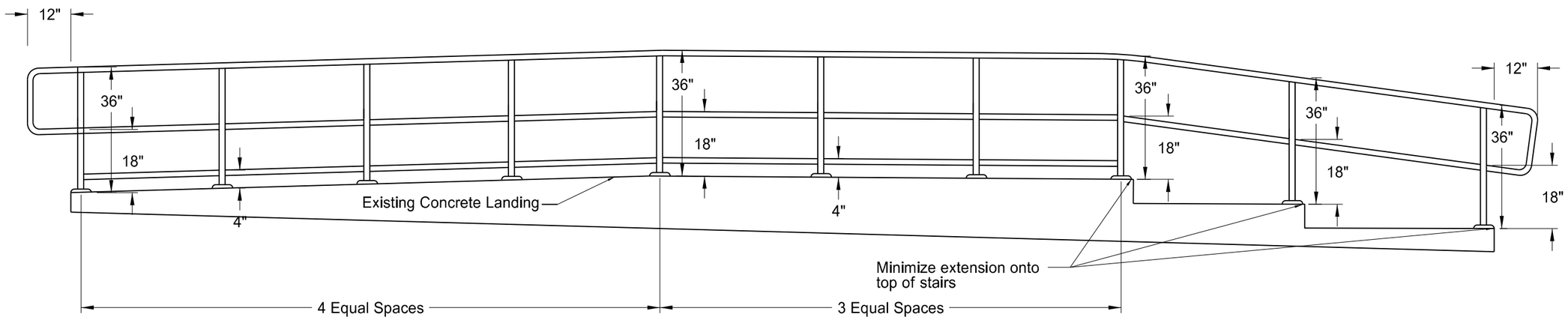
Right of Way Markers

ND 3

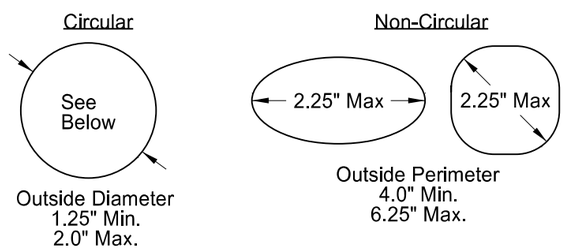
Jct 34 N to I-94 Dawson

Added 10/31/14	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	20	15



Sta. 4452+81 - Profile View

Handrail Gripping Surface



Notes:

1. Contractor shall verify all dimensions in the field.
2. Shop drawings shall be submitted for approval prior to fabrication.
3. Railing must support 200 lbs minimum at all locations.
4. Railings, guards, and components will be made of galvanized steel.
5. Handrail shall not rotate in its fittings.

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Handrail Detail
Sta 4452+81 Left

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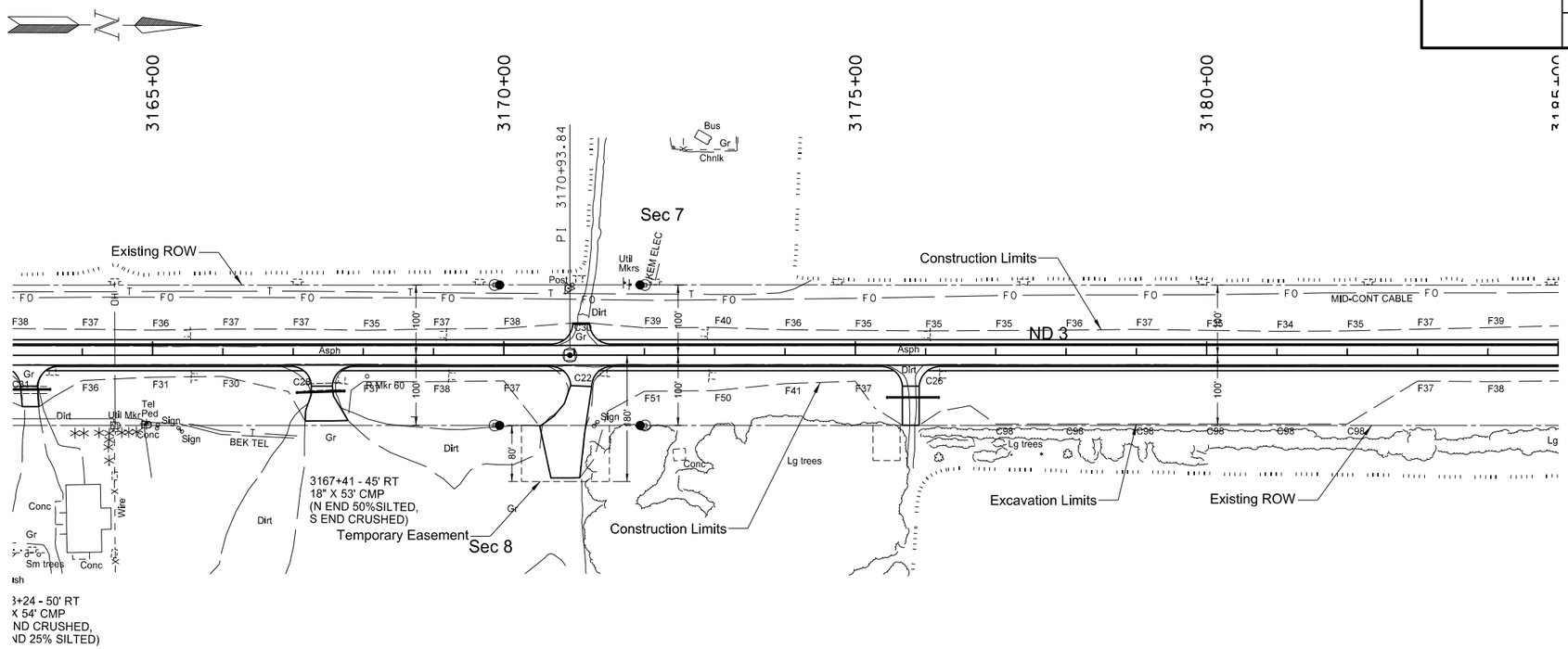
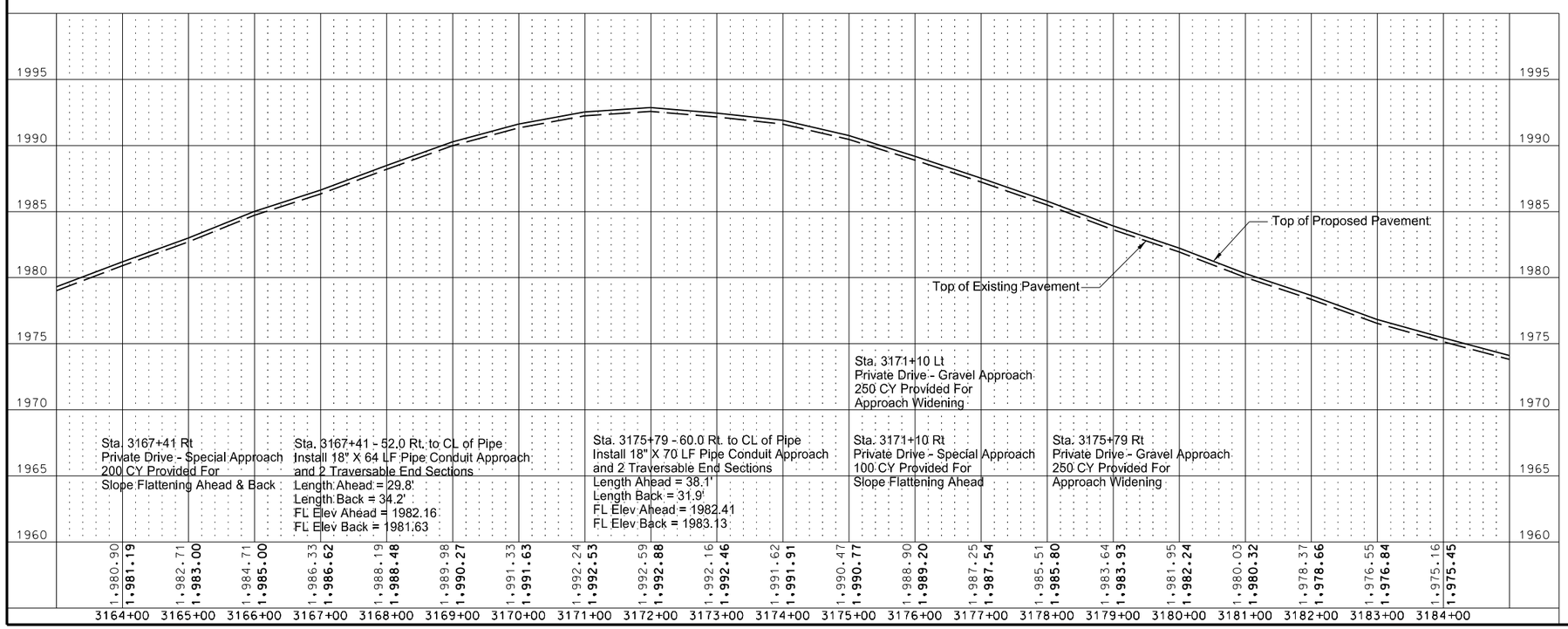
SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		3167+41 Rt	53	LF
714	4099	PIPE CONDUIT 18IN-APPROACH		
		3167+41 Rt	64	LF
		3175+79 Rt	70	LF





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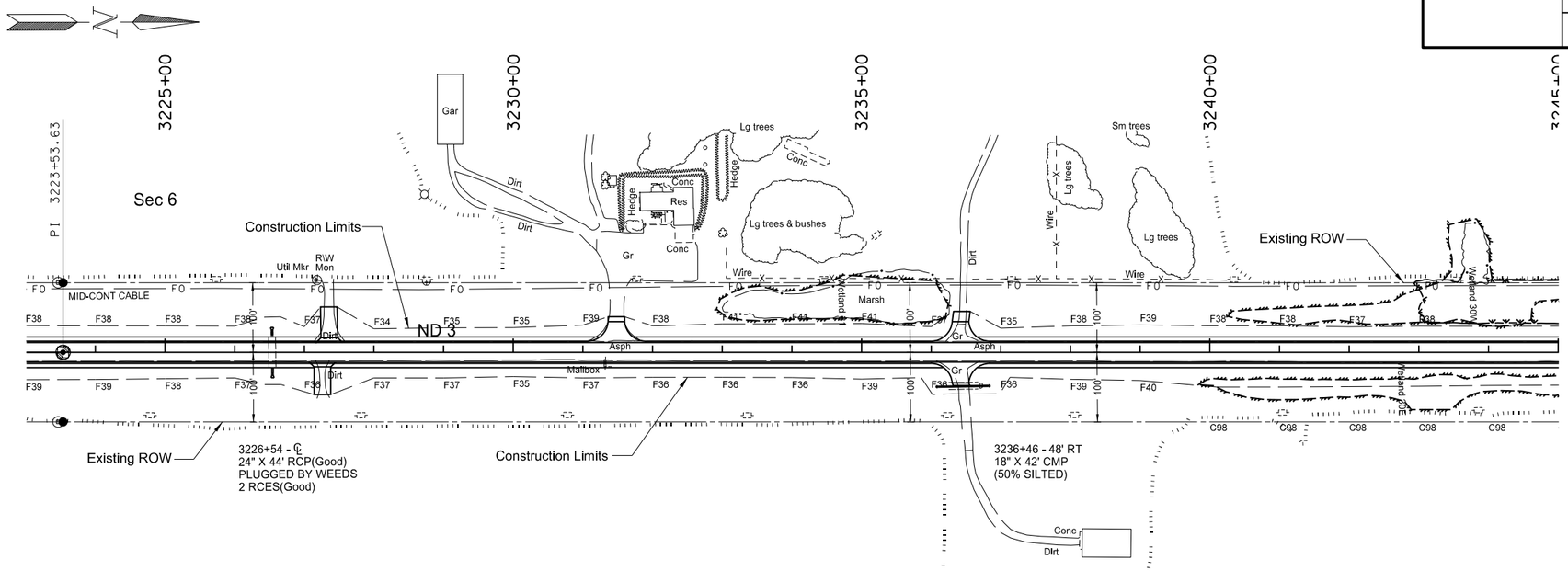
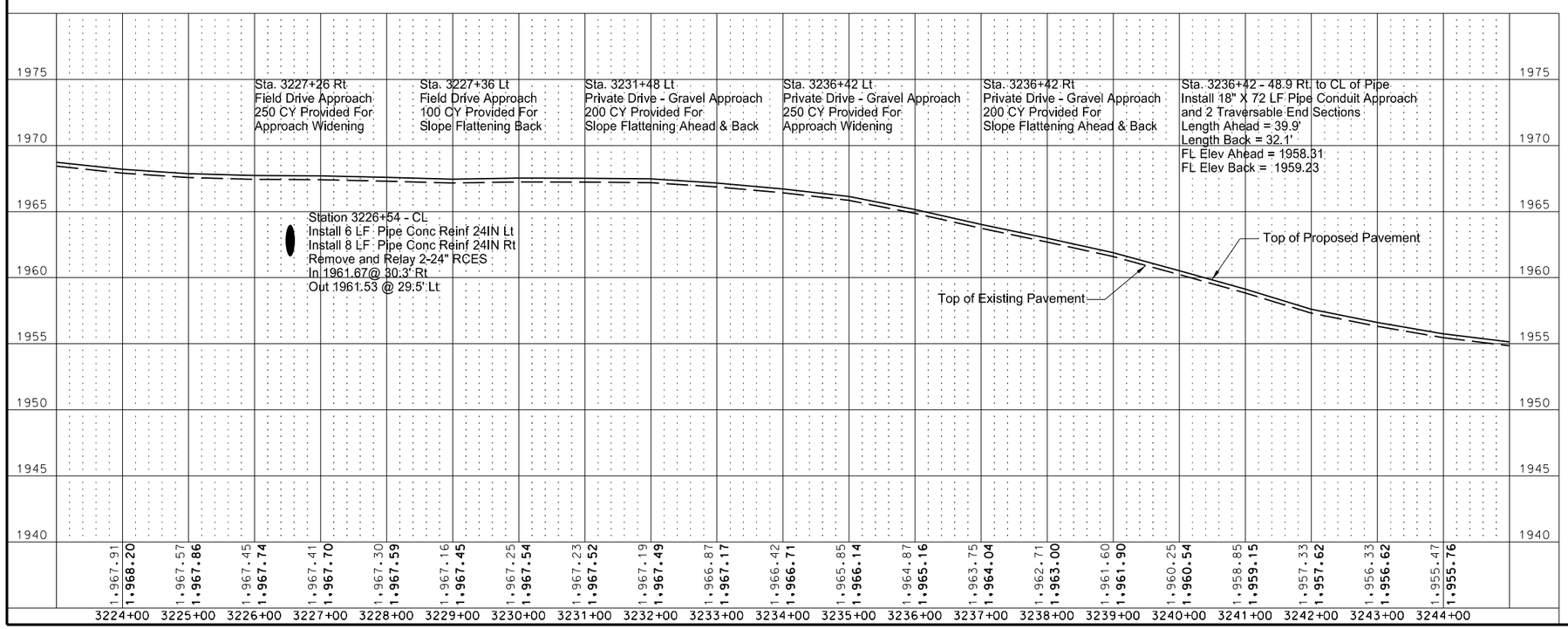


SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0174	REMOVAL OF PIPE ALL TYPES & SIZES		
		3236+42 Rt	42	LF
714	0615	PIPE CONC REINF 24IN CL III		
		3226+54 ℄ - Lt	6	LF
		3226+54 ℄ - Rt	8	LF
714	4099	PIPE CONDUIT 18IN-APPROACH		
		3236+42 Rt	72	LF
714	9660	REMOVE & RELAY END SECTION-ALL TYPES & SIZES		
		3226+54 ℄ - Lt	1	EA
		3226+54 ℄ - Rt	1	EA



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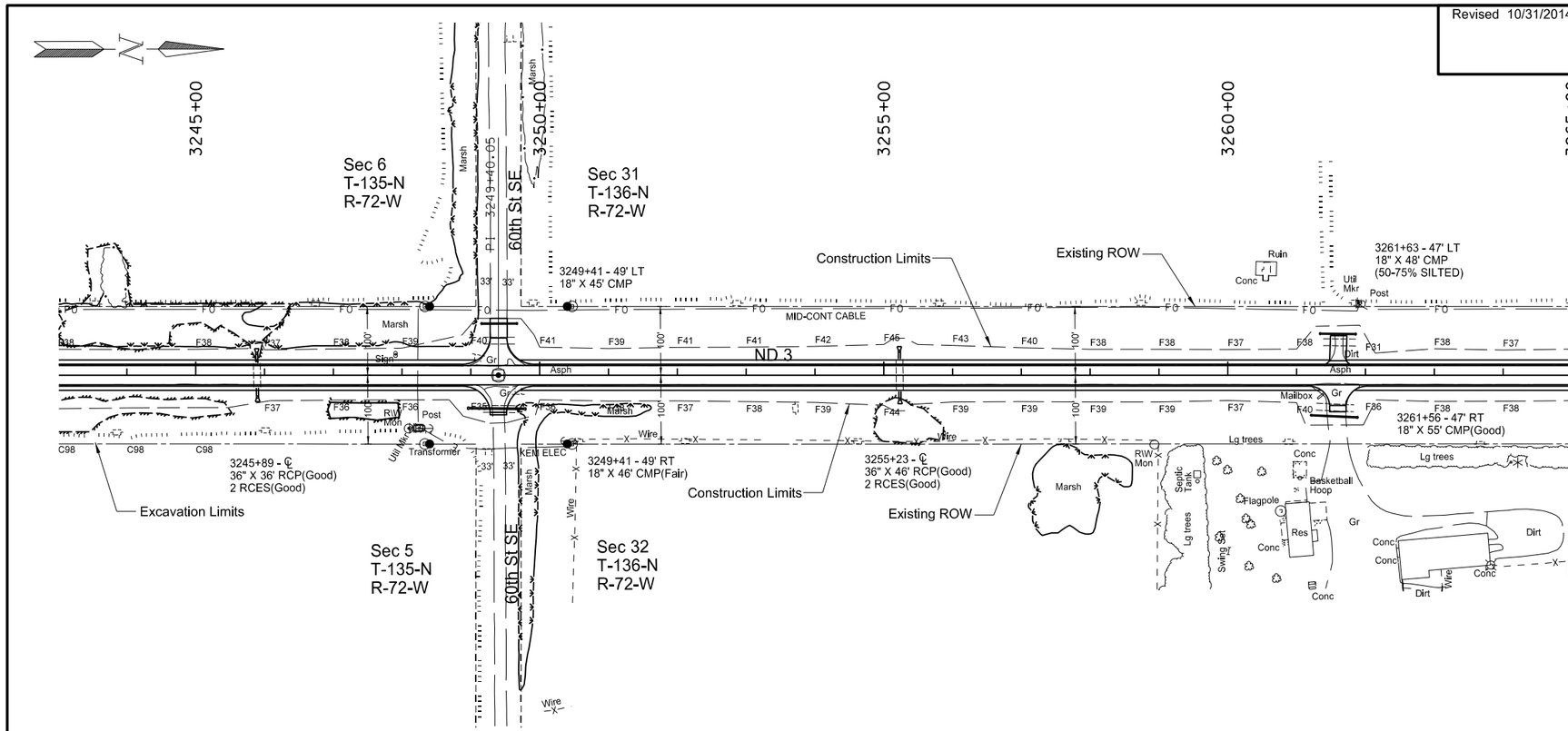
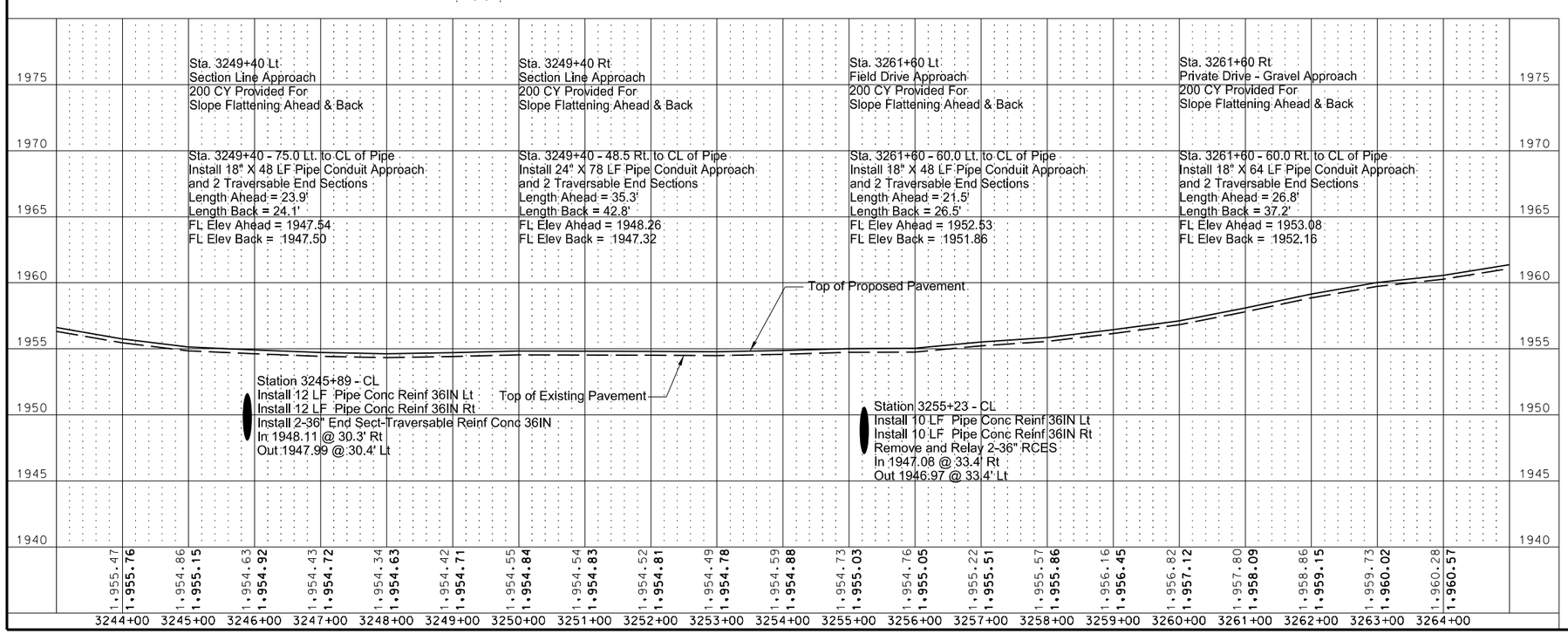


SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES		
		3245+89 ℄ - Lt	1	EA
		3245+89 ℄ - Rt	1	EA
202	0174	REMOVAL OF PIPE ALL TYPES & SIZES		
		3249+40 Lt	45	LF
		3249+40 Rt	46	LF
		3261+60 Lt	48	LF
		3261+60 Rt	55	LF
714	0905	PIPE CONC REINF 36IN CL III		
		3245+89 ℄ - Lt	12	LF
		3245+89 ℄ - Rt	12	LF
		3255+23 ℄ - Lt	10	LF
		3255+23 ℄ - Rt	10	LF
714	3036	END SECT-TRAVERSABLE REINF. CONC. 36IN		
		3245+89 ℄ - Lt	1	EA
		3245+89 ℄ - Rt	1	EA
714	4099	PIPE CONDUIT 18IN-APPROACH		
		3249+40 Lt	48	LF
		3261+60 Lt	48	LF
		3261+60 Rt	64	LF
714	4106	PIPE CONDUIT 24IN-APPROACH		
		3249+40 Rt	78	LF
714	9660	REMOVE & RELAY END SECTION-ALL TYPES & SIZES		
		3255+23 ℄ - Lt	1	EA
		3255+23 ℄ - Rt	1	EA



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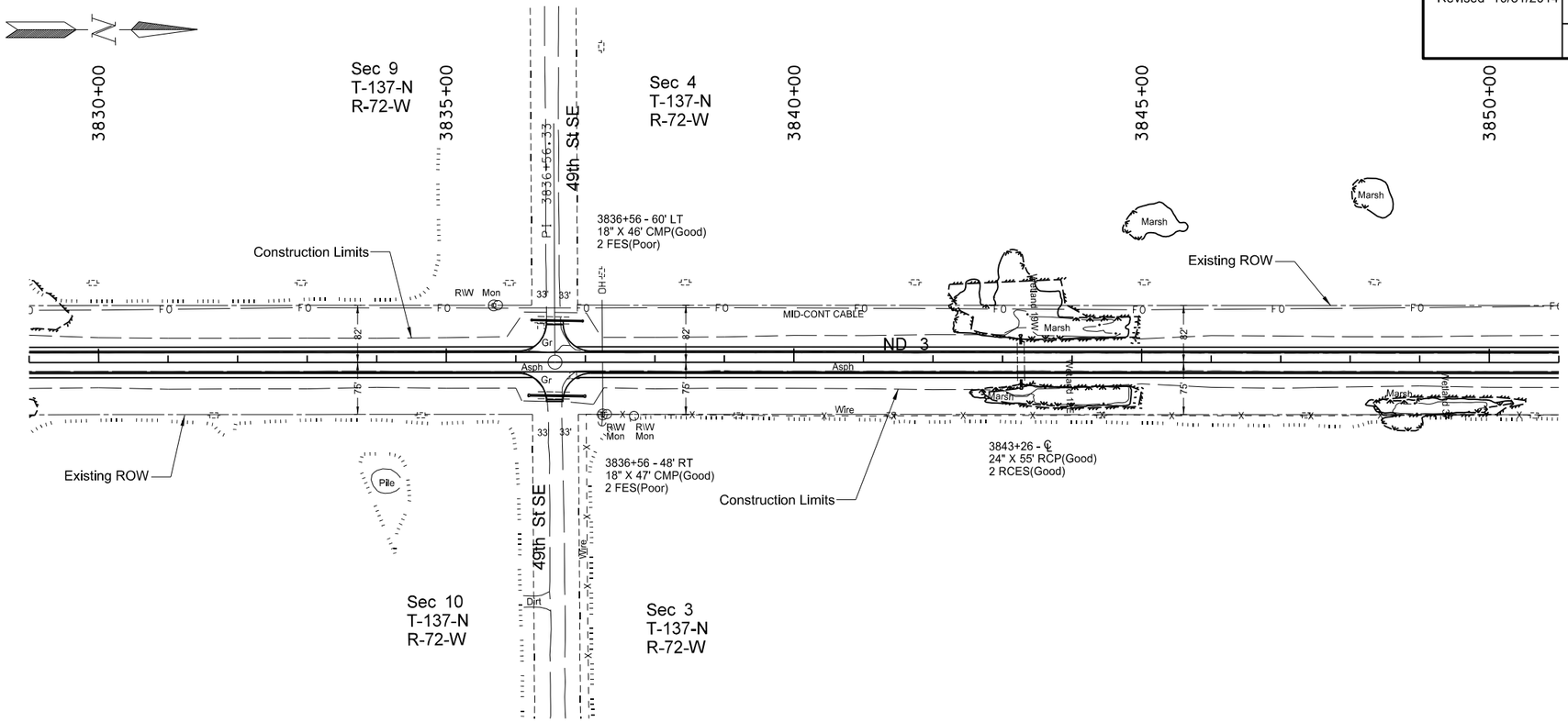
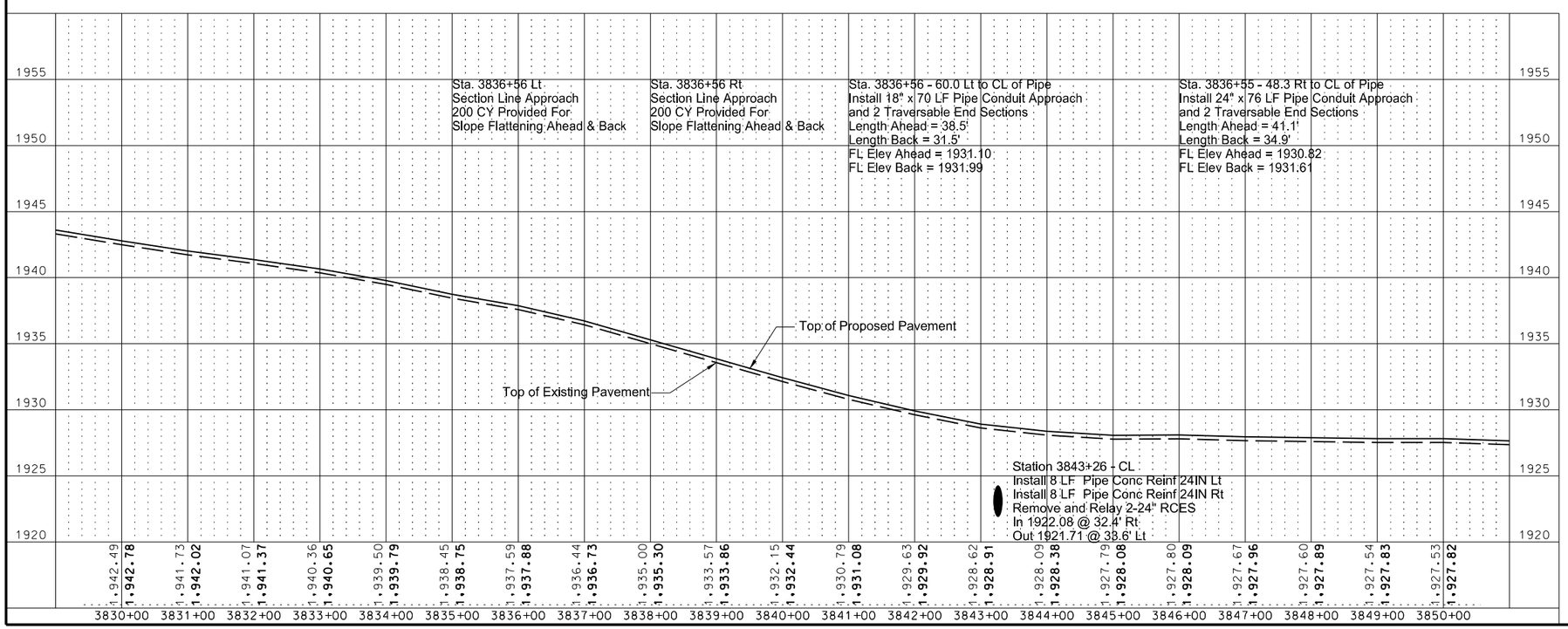
	ND	NH-RSS-1-003(034)059	60	36



SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		3836+56 Lt	46	LF
		3836+56 Rt	47	LF
714	0615	PIPE CONC REINF 24IN CL III		
		3843+26 ℄ - Lt	8	LF
		3843+26 ℄ - Rt	8	LF
714	4099	PIPE CONDUIT 18IN-APPROACH		
		3836+56 Lt	70	LF
714	4106	PIPE CONDUIT 24IN-APPROACH		
		3836+55 Rt	76	LF
714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES		
		3843+26 ℄ - Lt	1	EA
		3843+26 ℄ - Rt	1	EA



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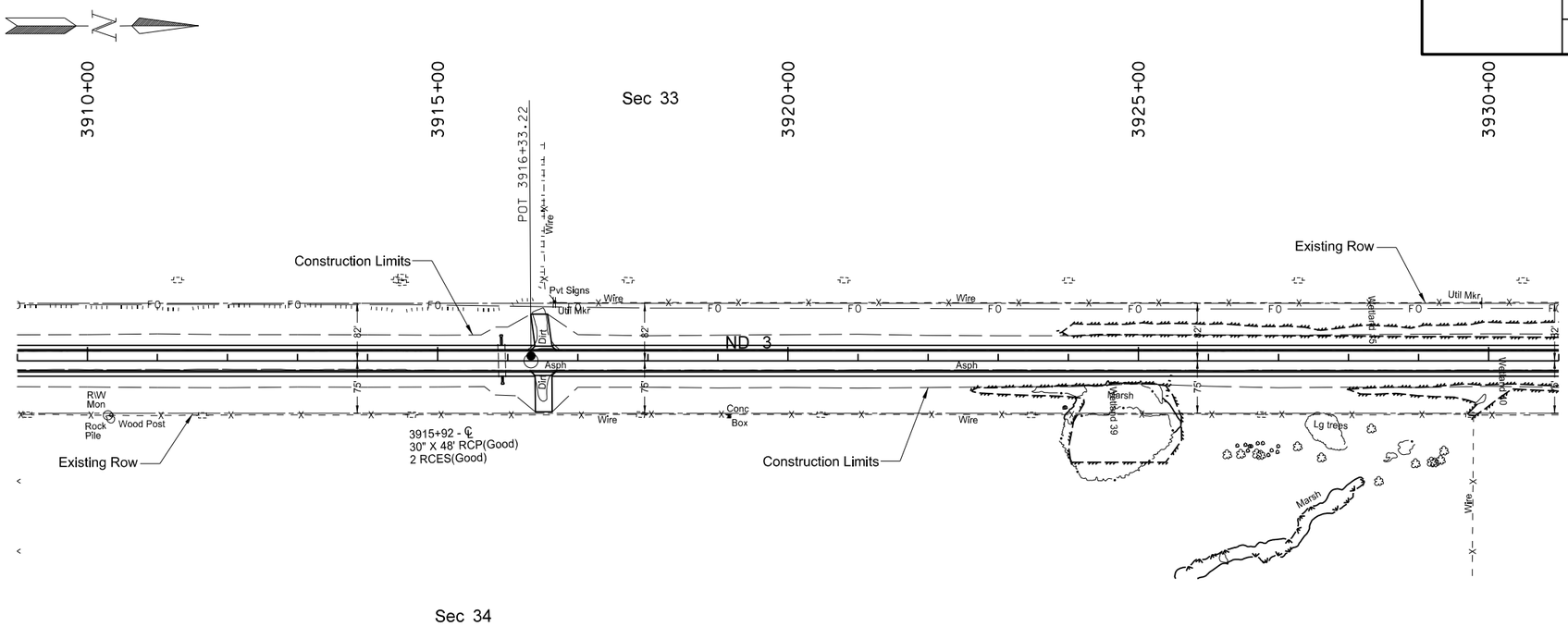
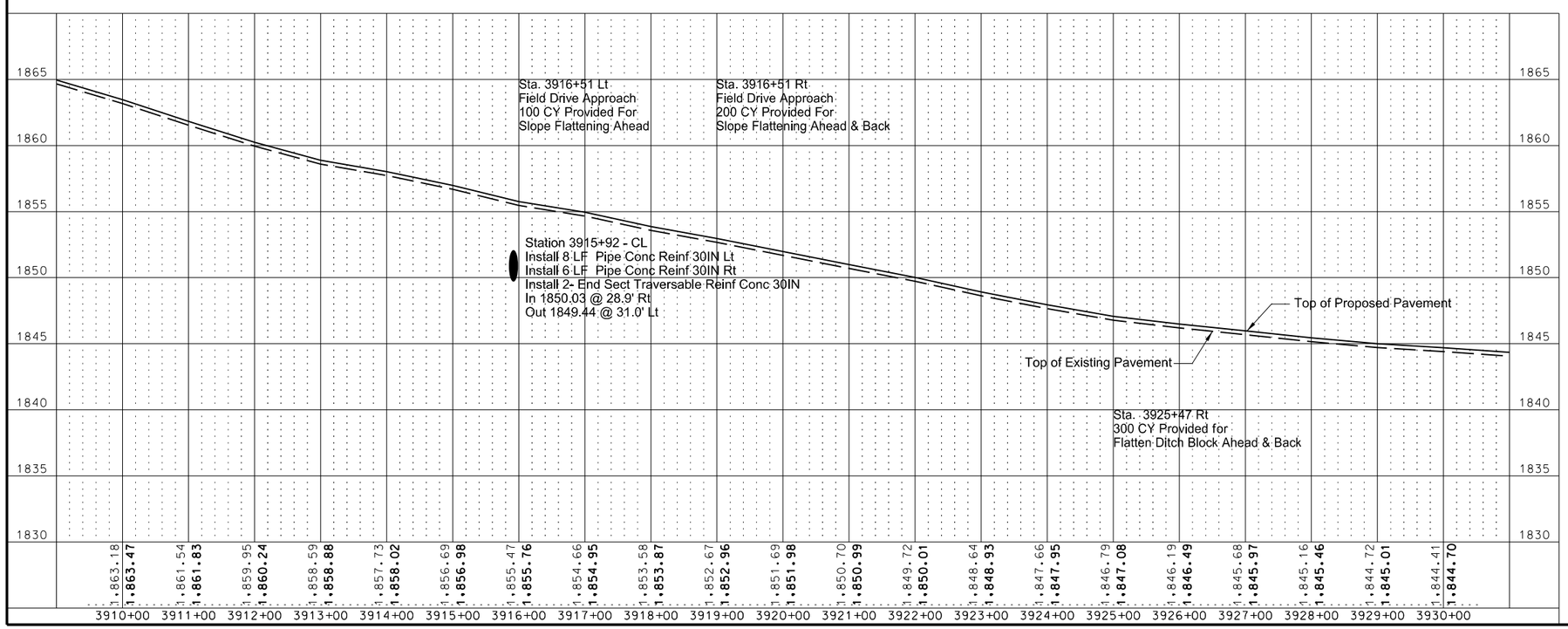
	ND	NH-RSS-1-003(034)059	60	40



SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES		
		3915+92 ℄ - Lt	1	EA
		3915+92 ℄ - Rt	1	EA
714	0820	PIPE CONC REINF 30IN CL III		
		3915+92 ℄ - Lt	8	LF
		3915+92 ℄ - Rt	6	LF
714	3033	END SECT-TRAVERSABLE REINF. CONC. 30IN		
		3915+92 ℄ - Lt	1	EA
		3915+92 ℄ - Rt	1	EA



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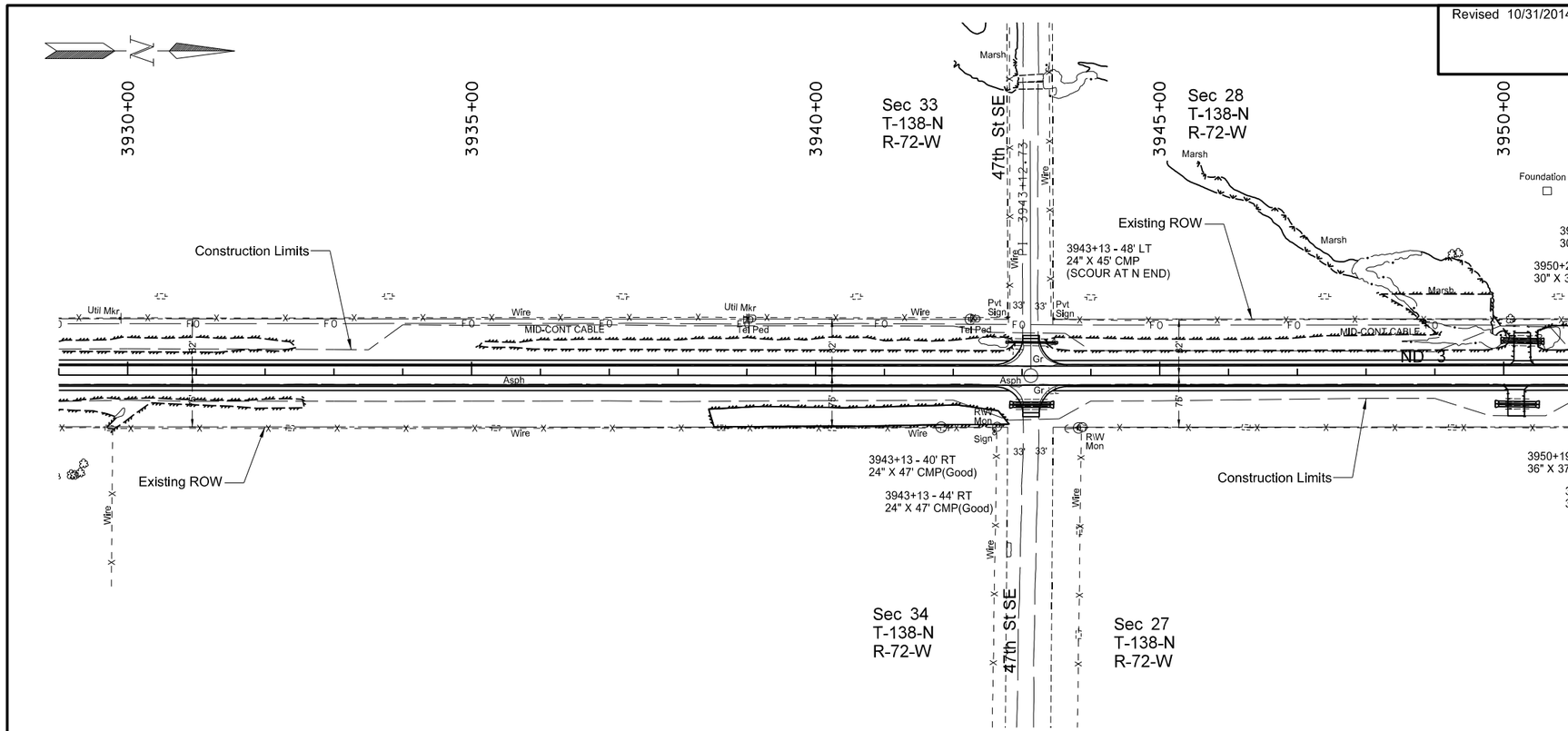
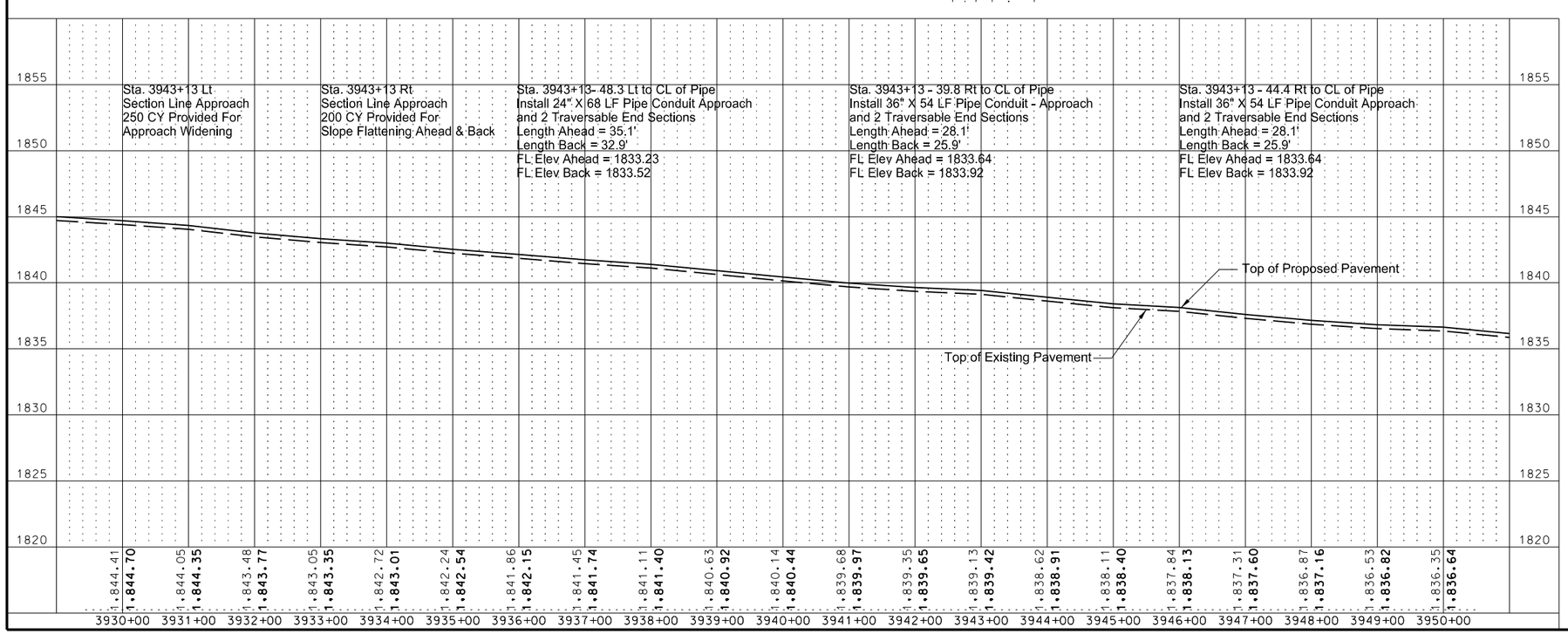
	ND	NH-RSS-1-003(034)059	60	41



SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		3943+13 Lt	45	LF
		3943+13 Rt	47	LF
		3943+13 Rt	47	LF
714	4106	PIPE CONDUIT 24IN-APPROACH		
		3943+13 Lt	68	LF
714	4116	PIPE CONDUIT 36IN-APPROACH		
		3943+13 Rt	54	LF
		3943+13 Rt	54	LF



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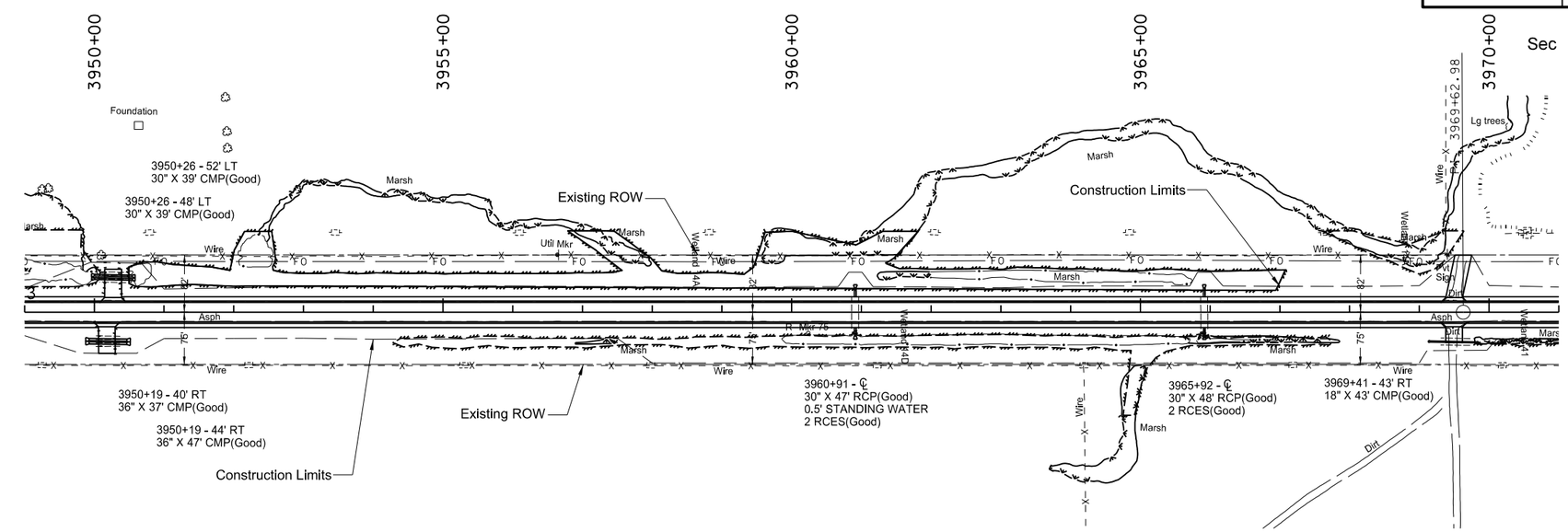
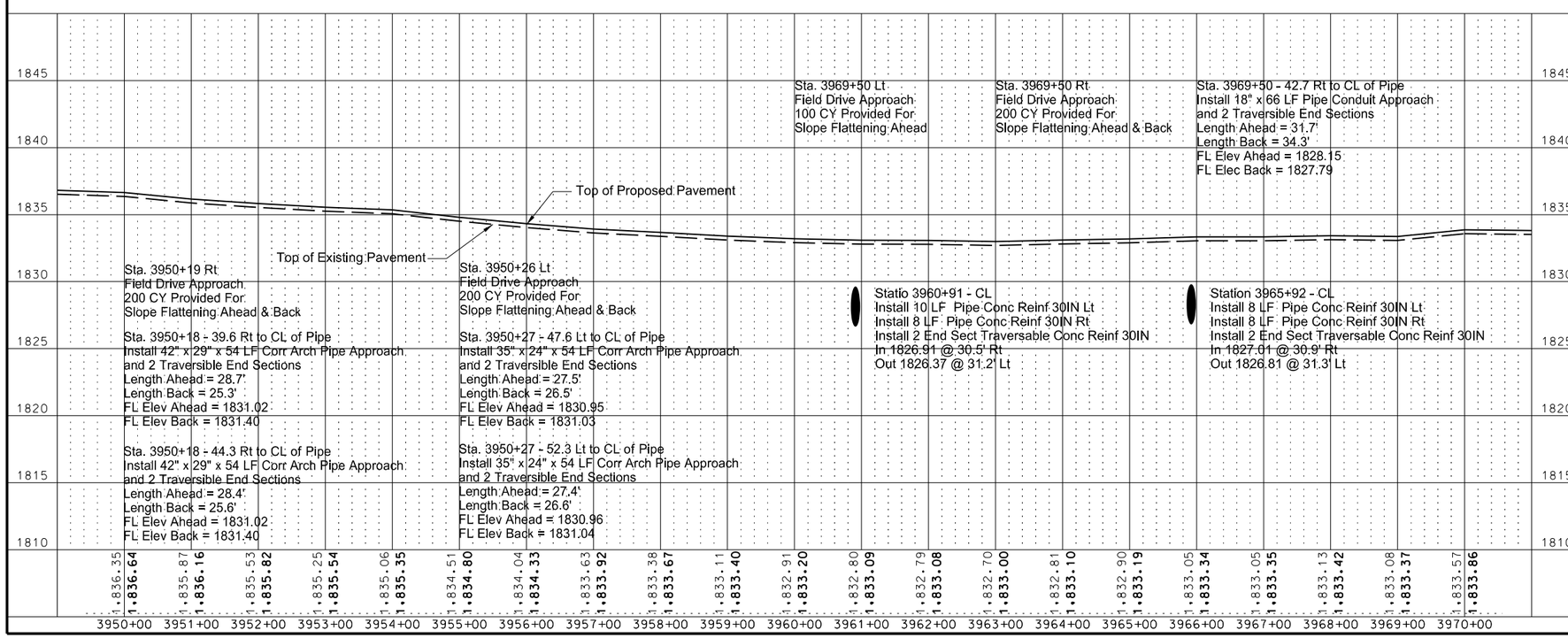
	ND	NH-RSS-1-003(034)059	60	42



SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES		
		3960+91 ℄ - Lt	1	EA
		3960+91 ℄ - Rt	1	EA
		3965+92 ℄ - Lt	1	EA
		3965+92 ℄ - Rt	1	EA
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		3950+19 Rt	37	LF
		3950+19 Rt	47	LF
		3950+26 Lt	39	LF
		3950+26 Lt	39	LF
		3969+41 Rt	43	LF
714	0820	PIPE CONC REINF 30IN CL III		
		3960+91 ℄ - Lt	10	LF
		3960+91 ℄ - Rt	8	LF
		3965+92 ℄ - Lt	8	LF
		3965+92 ℄ - Rt	8	LF
714	3033	END SECT-TRAVERSABLE REINF. CONC. 30IN		
		3960+91 ℄ - Lt	1	EA
		3960+91 ℄ - Rt	1	EA
		3965+92 ℄ - Lt	1	EA
		3965+92 ℄ - Rt	1	EA
714	4099	PIPE CONDUIT 18IN-APPROACH		
		3969+50 Rt	66	LF
714	5128	PIPE CORR STEEL .064IN ARCH 35IN X 24IN		
		3950+27 Lt	54	LF
		3950+27 Lt	54	LF
714	5133	PIPE CORR STEEL 0.64IN ARCH 42IN X 29IN		
		3950+18 Rt	54	LF
		3950+18 Rt	54	LF



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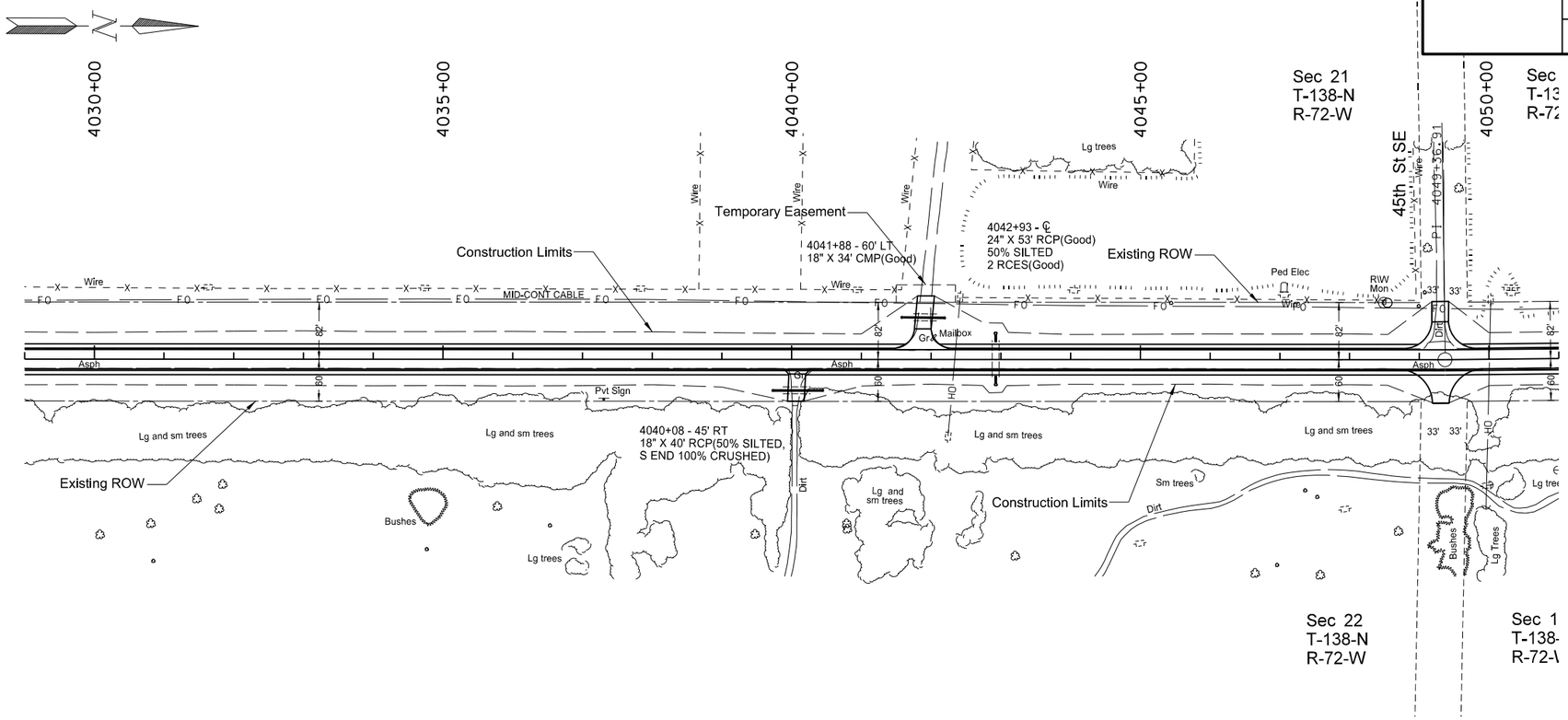
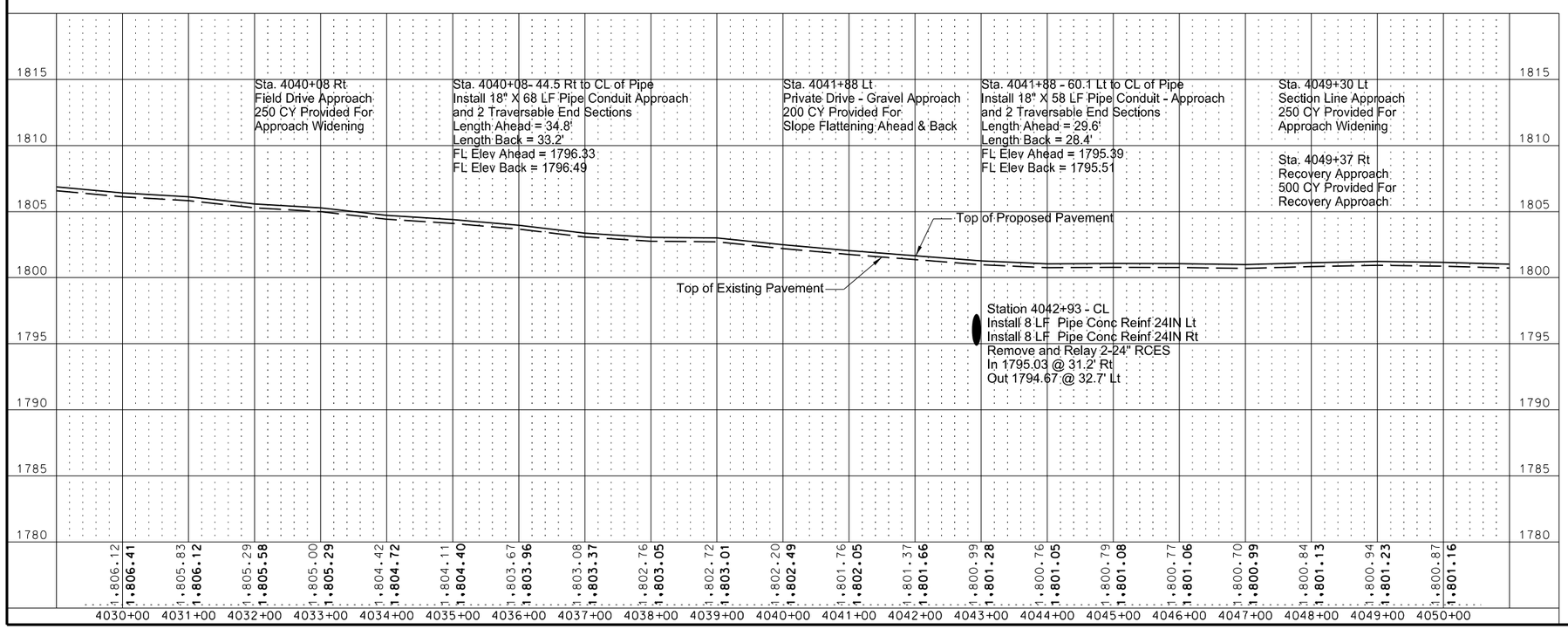


SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
		4040+08 Rt	40	LF
		4041+88 Lt	34	LF
714	0615	PIPE CONC REINF 24IN CL III		
		4042+93 ℄ - Lt	8	LF
		4042+93 ℄ - Rt	8	LF
714	4099	PIPE CONDUIT 18IN-APPROACH		
		4040+08 Rt	68	LF
		4041+88 Lt	58	LF
714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES		
		4042+93 ℄ - Lt	1	EA
		4042+93 ℄ - Rt	1	EA



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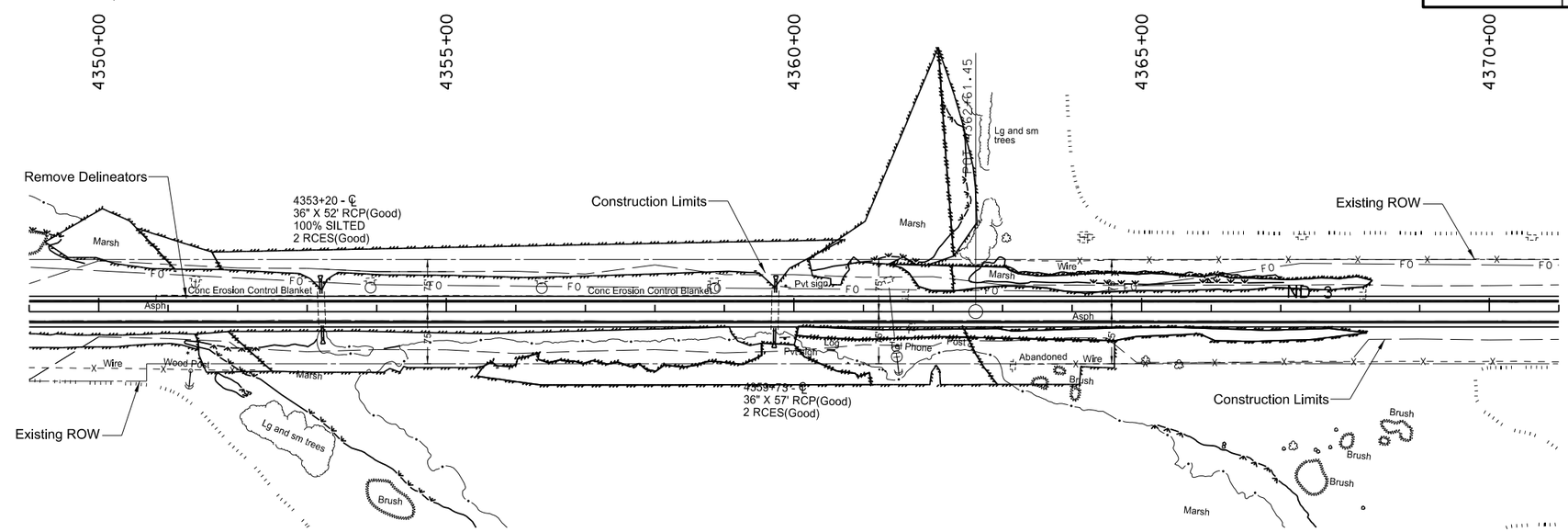
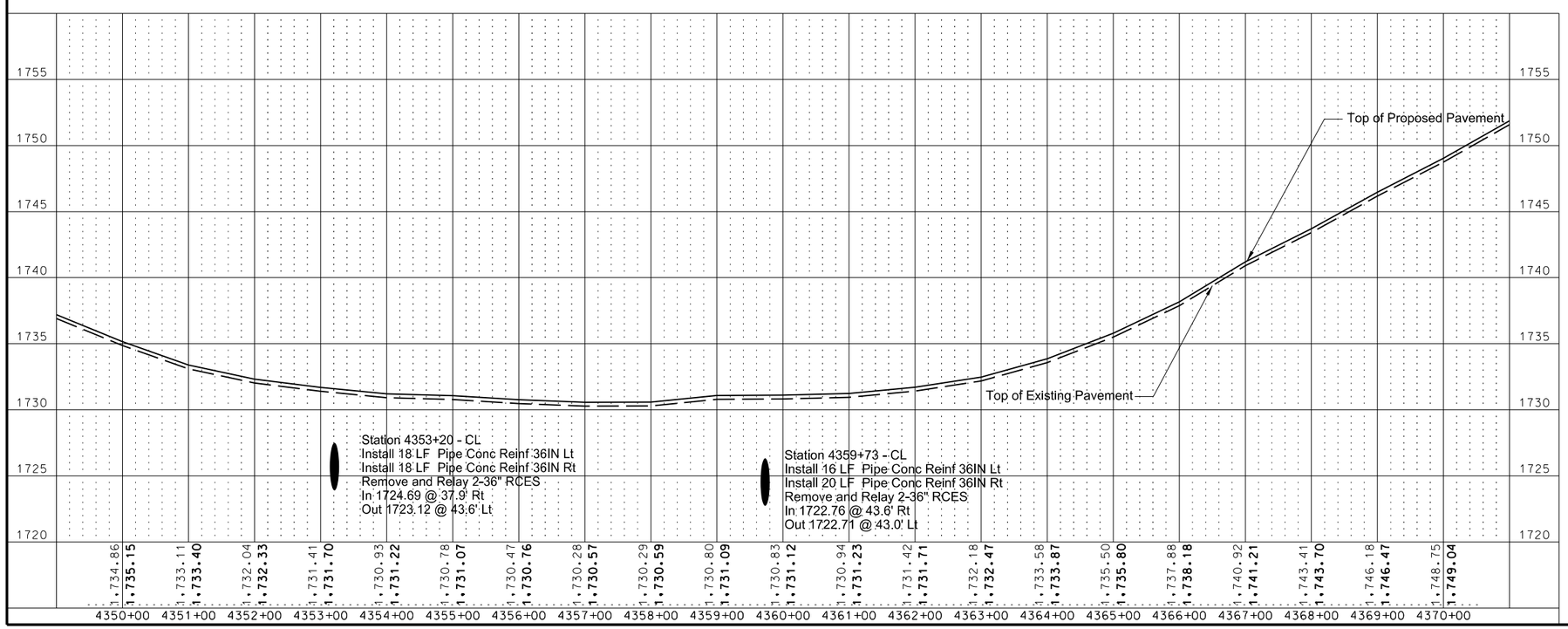


SPEC	CODE	BID ITEM	QUANTITY	UNIT
714	0905	PIPE CONC REINF 36IN CL III		
		4353+20 ℄ - Lt	18	LF
		4353+20 ℄ - Rt	18	LF
		4359+73 ℄ - Lt	16	LF
		4359+73 ℄ - Rt	20	LF
714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES		
		4353+20 ℄ - Lt	1	EA
		4353+20 ℄ - Rt	1	EA
		4359+73 ℄ - Lt	1	EA
		4359+73 ℄ - Rt	1	EA



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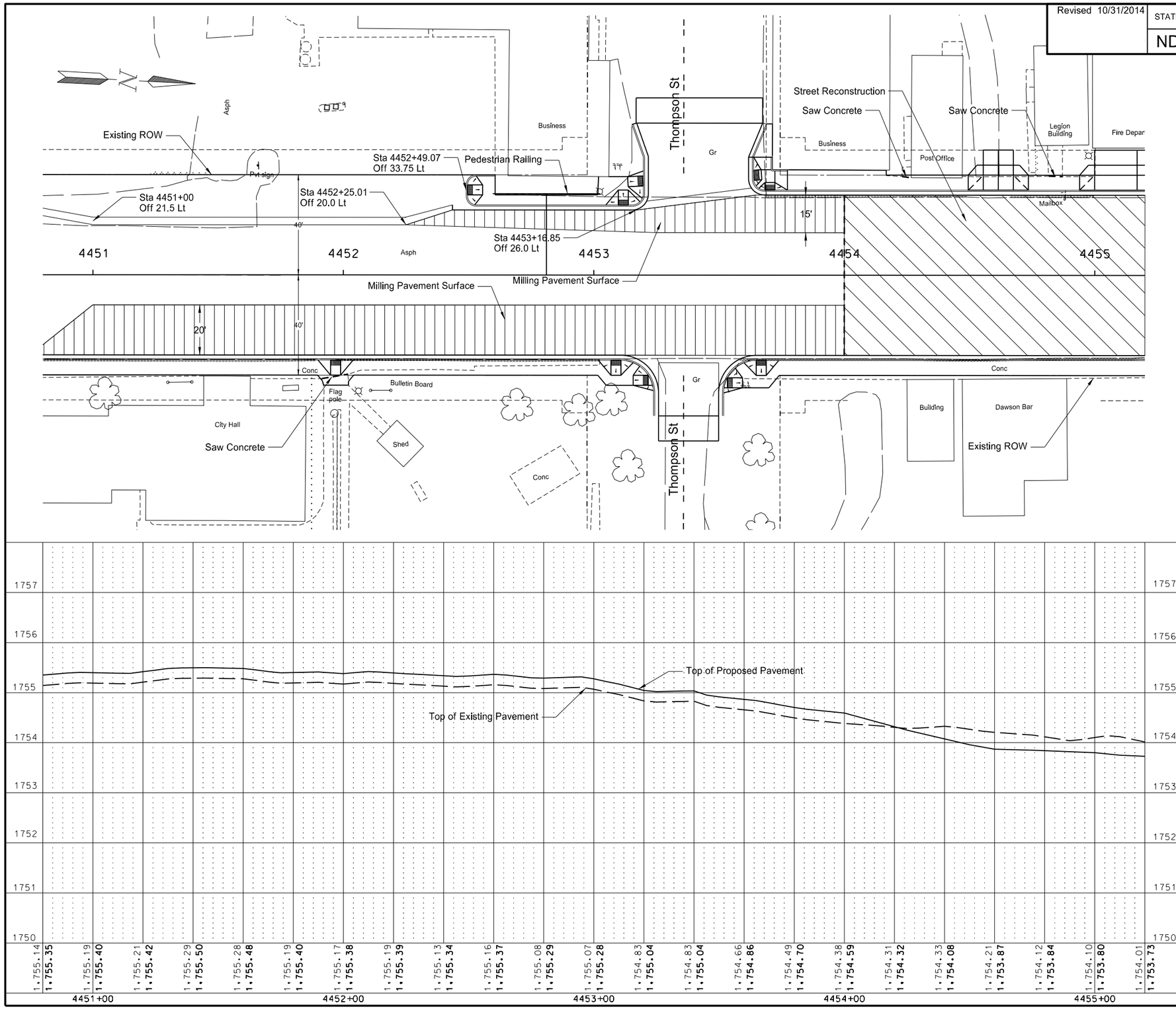

SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0112	REMOVAL OF CONCRETE		
		4450+80 to 4453+24 Rt	132	SY
		4453+52 to 4455+20 Rt	144	SY
		4453+66 to 4455+20 Lt	182	SY
202	0119	SAW CONCRETE		
		4451+91 to 4452+03 Rt	11	LF
		4453+68 to 4453+71 Lt	3	LF
		4454+23 to 4454+27 Lt	4	LF
		4454+82 to 4454+87 Lt	5	LF
		4455+00 to 4455+20 Lt	20	LF
302	0120	AGGREGATE BASE COURSE CL 5		
		4450+80 to 4453+24 Rt	60	CY
		4453+01 to 4453+15 Lt	8	CY
		4453+52 to 4455+20 Rt	35	CY
		4453+66 to 4455+20 Lt	50	CY
411	0105	MILLING PAVEMENT SURFACE		
		4450+75 to 4454+00 Rt	694	SY
		4452+25 to 4454+00 Lt	185	SY
624	0123	PEDESTRIAN RAILING		
		4452+60 to 4453+03 Lt	48	LF
748	0140	CURB & GUTTER-TYPE 1		
		4450+80 to 4453+24 Rt	354	LF
		4452+49 to 4453+17 Lt	121	LF
		4453+52 to 4455+20 Rt	188	LF
		4453+66 to 4455+20 Lt	181	LF
748	0520	CURB-TYPE 1		
		4453+03 to 4453+07 Lt	12	LF
		4453+70 to 4453+77 Lt	13	LF
748	1020	VALLEY GUTTER 36IN		
		4450+80 to 4452+49 Lt	56	SY
		4453+17 to 4453+65 Lt	17	SY
		4453+16 to 4453+65 Rt	17	LF
750	0100	SIDEWALK CONCRETE		
		4450+80 to 4453+24 Rt	214	SY
		4453+01 to 4453+15 Lt	28	SY
		4453+52 to 4455+20 Rt	124	SY
		4453+66 to 4454+50 Lt	73	SY
		4454+74 to 4454+94 Lt	14	SY
750	1000	DRIVEWAY CONCRETE		
		4454+50 to 4454+74 Lt	32	SY
750	1021	DRIVEWAY CONCRETE 8IN REINFORCED		
		4454+94 to 4455+20 Lt	40	SY
750	2115	DETECTABLE WARNING PANEL		
		4451+97 Rt	8	SF
		4452+51 Lt	8	SF
		4453+09 Rt	8	SF
		4453+12 Lt	8	SF
		4453+18 Lt	8	SF
		4453+21 Rt	8	SF
		4453+55 Rt	8	SF
		4453+65 Lt	8	SF
		4453+67 Rt	8	SF
		4453+70 Lt	8	SF

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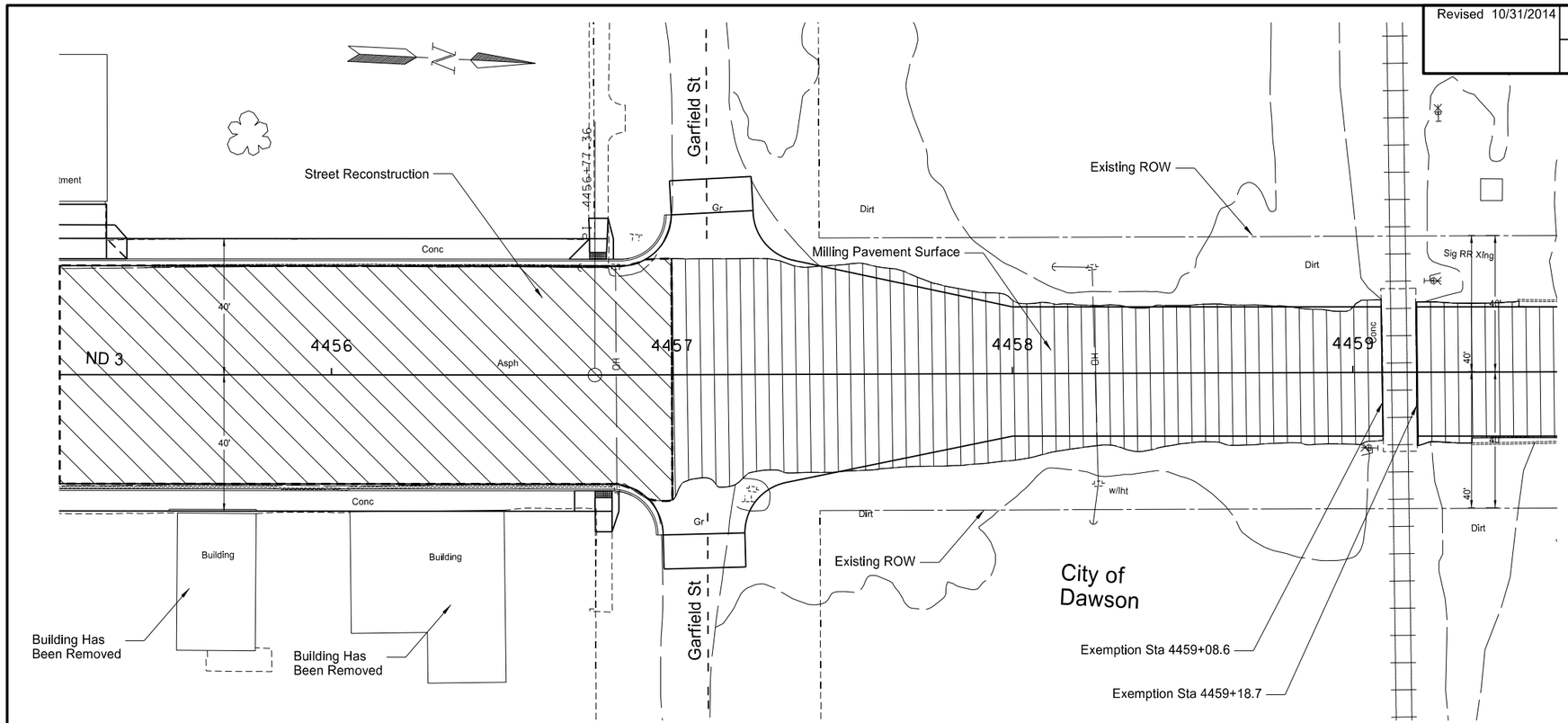
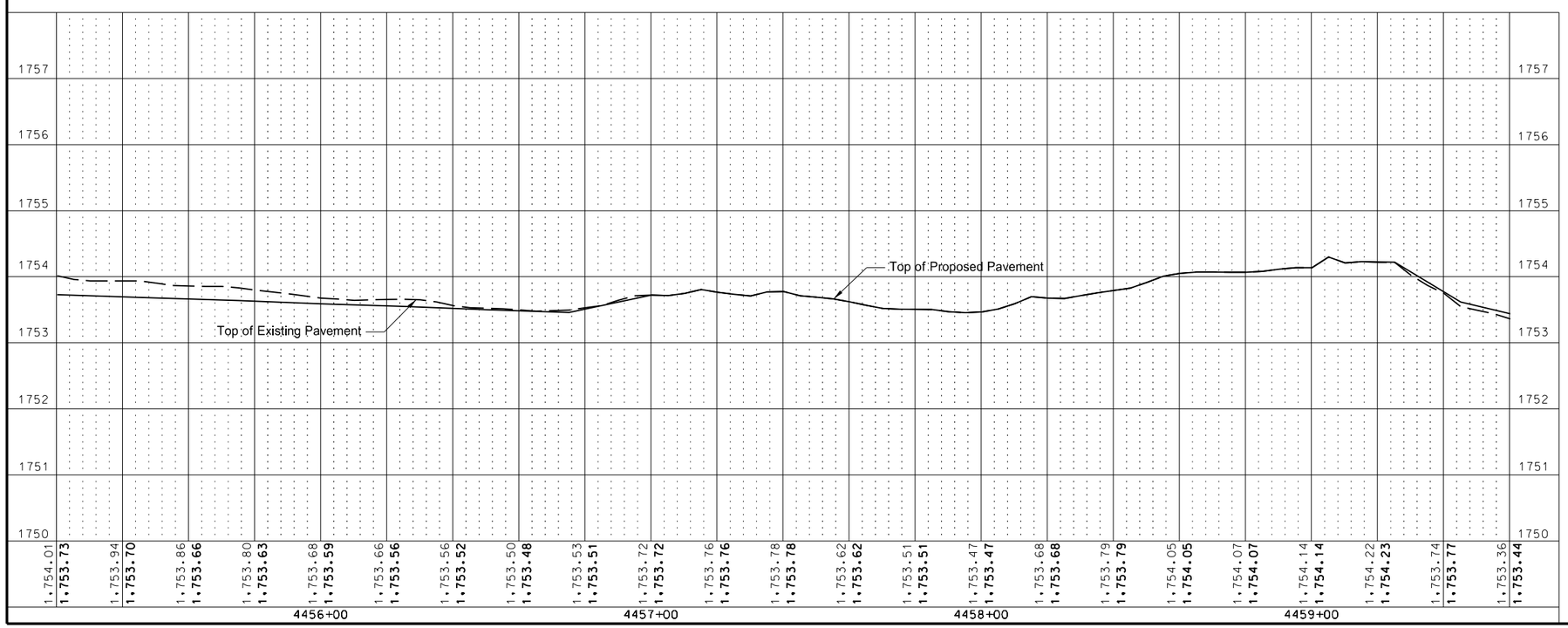


SPEC	CODE	BID ITEM	QUANTITY	UNIT
202	0112	REMOVAL OF CONCRETE		
		4455+20 to 4457+00 Rt	137	SY
		4455202 to 4457+00 Lt	168	SY
202	0119	SAW CONCRETE		
		4456+77 to 4456+82 Rt	5	LF
		4456+76 to 4456+82 Lt	6	LF
302	0120	AGGREGATE BASE COURSE CL 5		
		4455+20 to 4457+00 Rt	41	CY
		4455+20 to 4457+00 Lt	45	CY
411	0105	MILLING PAVEMENT SURFACE		
		4457+00 to 4459+09 ℄	1156	SY
748	0140	CURB & GUTTER TYPE 1		
		4455+20 to 4457+00 Rt	186	LF
		4455+20 to 4457+00 Lt	190	LF
748	0520	CURB-TYPE 1		
		4455+52 to 4456+78 Rt	132	LF
750	0100	SIDEWALK CONCRETE		
		4455+20 to 4457+00 Rt	115	SY
		4455+40 to 4457+00 Lt	103	SY
750	1021	DRIVEWAY CONCRETE 8IN REINFORCED		
		4455+20 to 4455+40 Lt	30	SY
750	2115	DETECTABLE WARNING PANEL		
		4456+80 Rt	10	SF
		4456+80 Lt	10	SF



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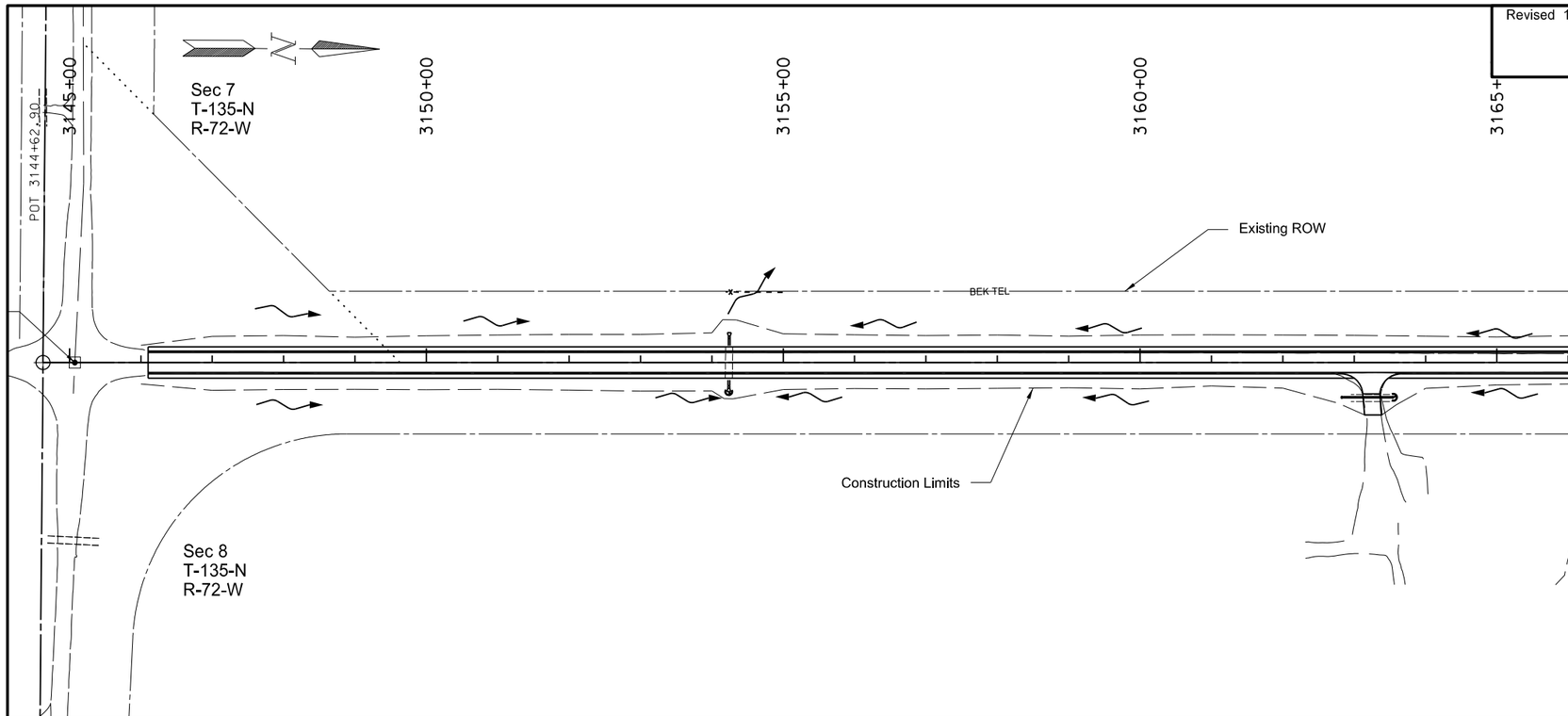
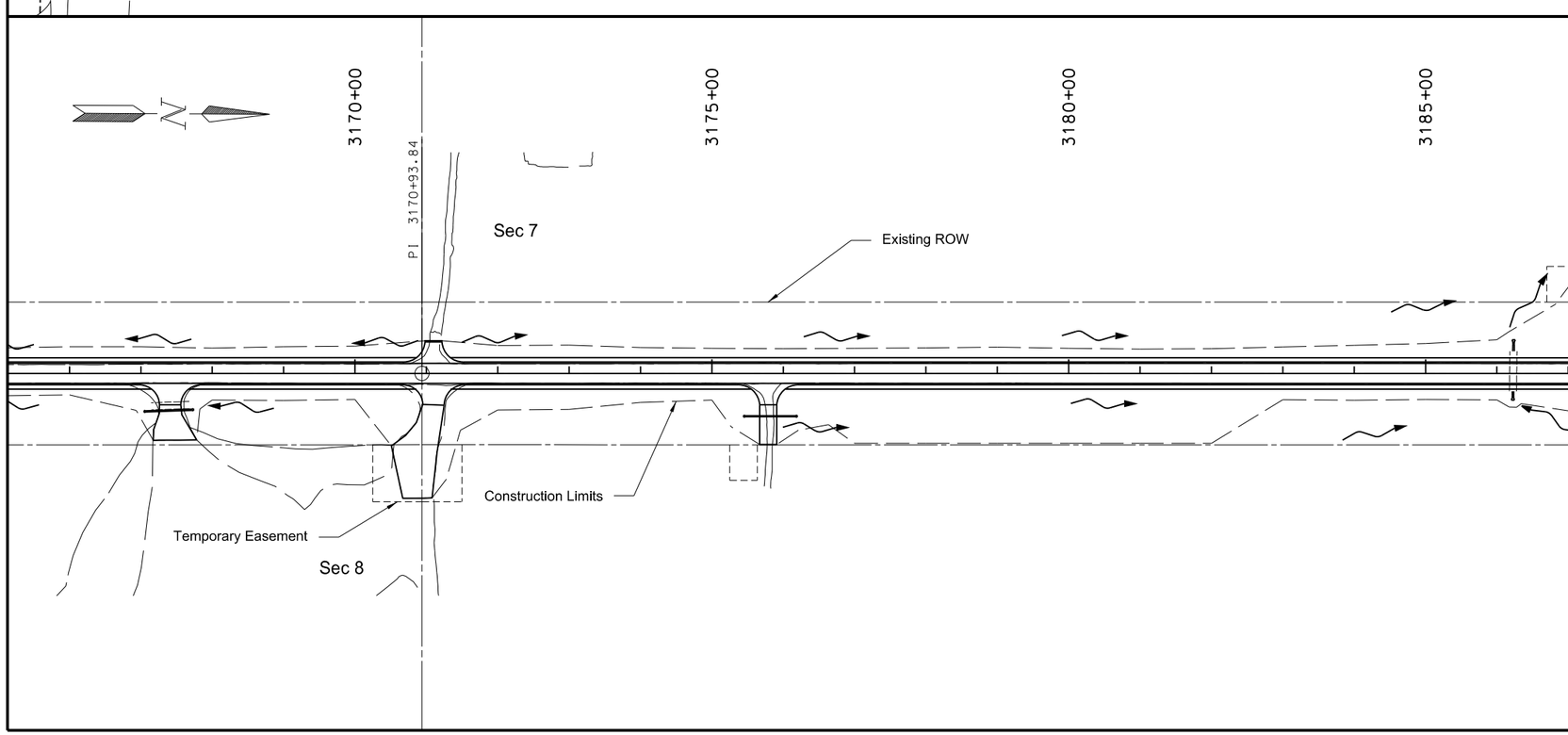
	ND	NH-RSS-1-003(034)059	75	1





Other Water Permanent Impacts

Other Water Temporary Impacts

Permanent Wetland Impact

Temporary Wetlantd Impact

Wetland Mitigation

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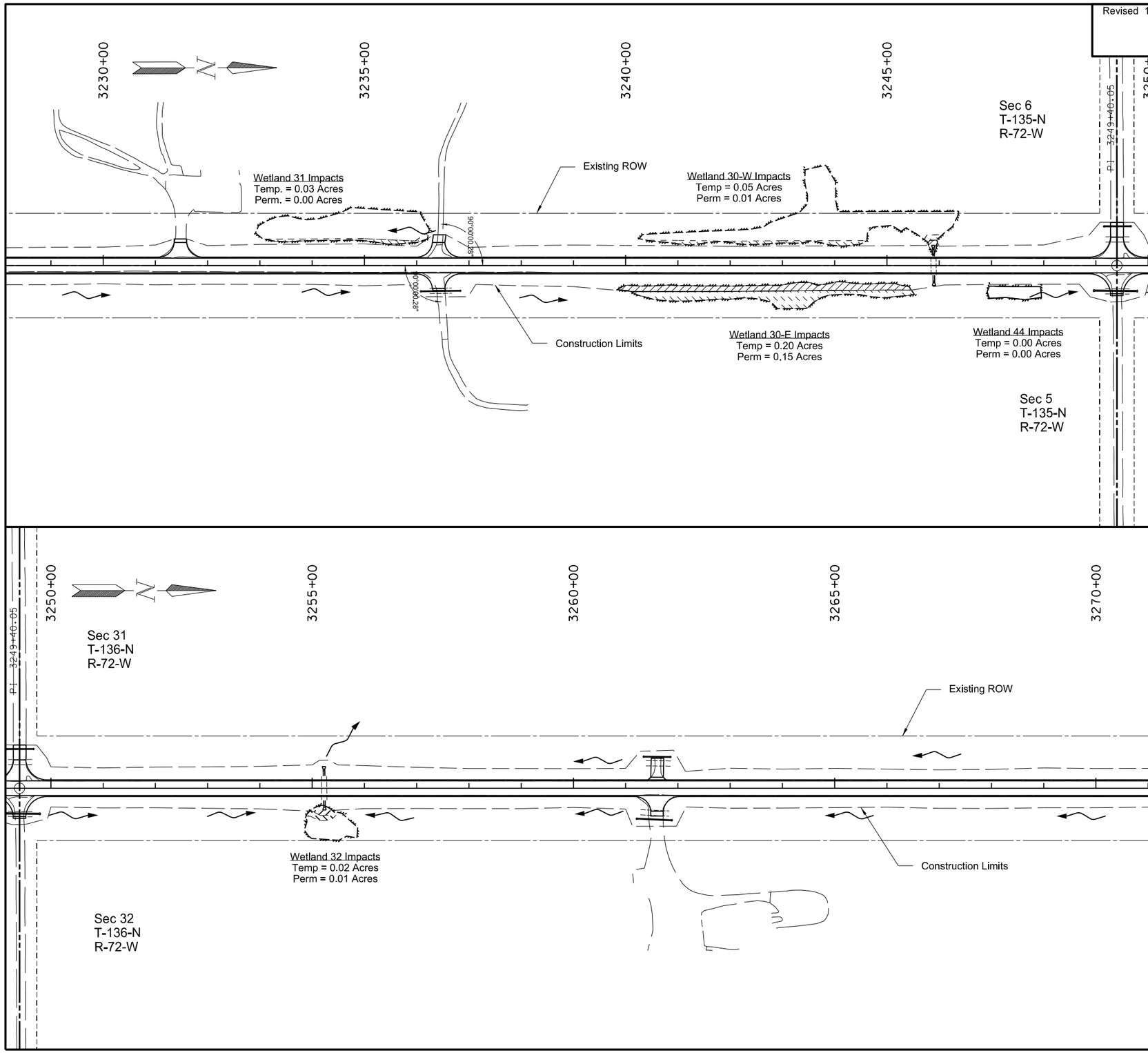
Wetlands, Mitigation, and Environmental

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	75	3



Other Water Permanent Impacts

Other Water Temporary Impacts

Permanent Wetland Impact

Temporary Wetlantd Impact

Wetland Mitigation

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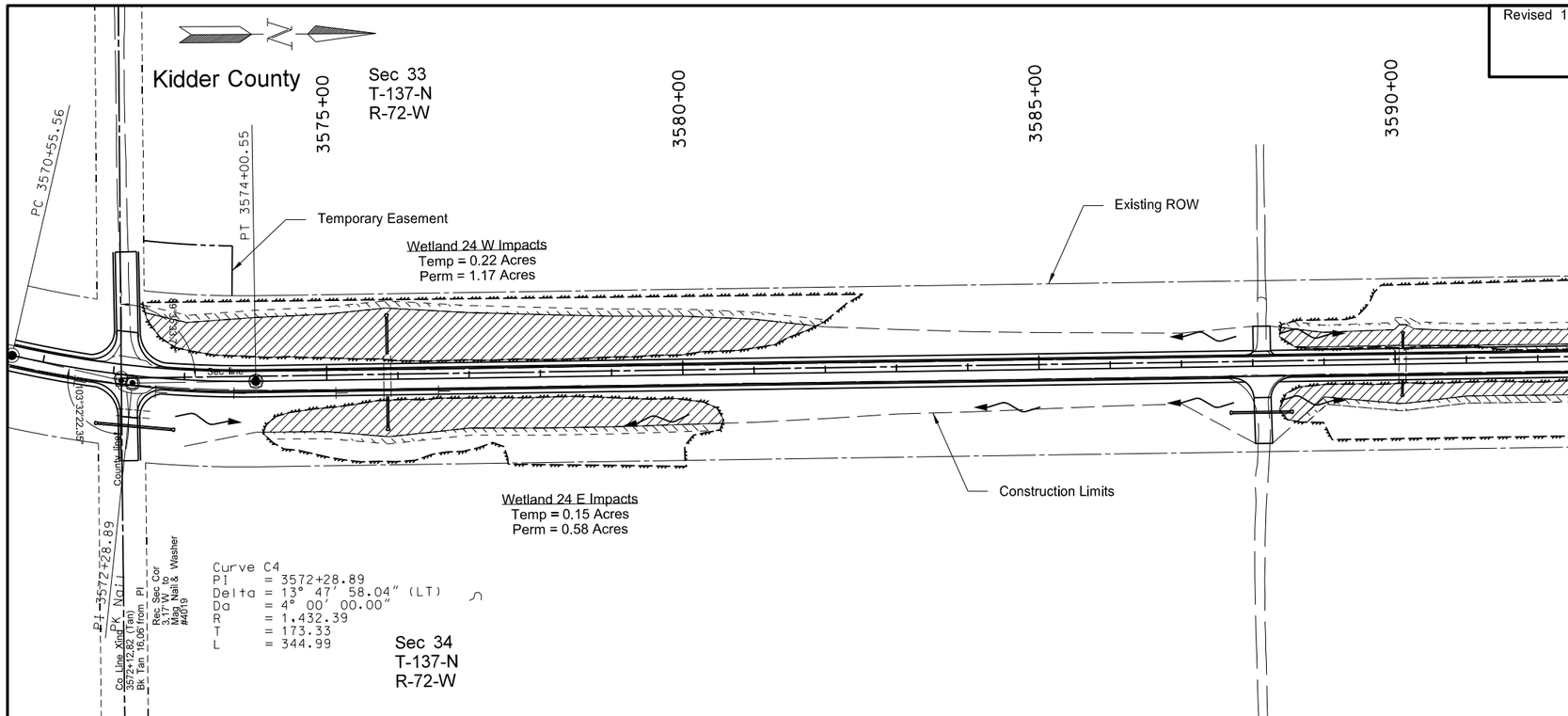
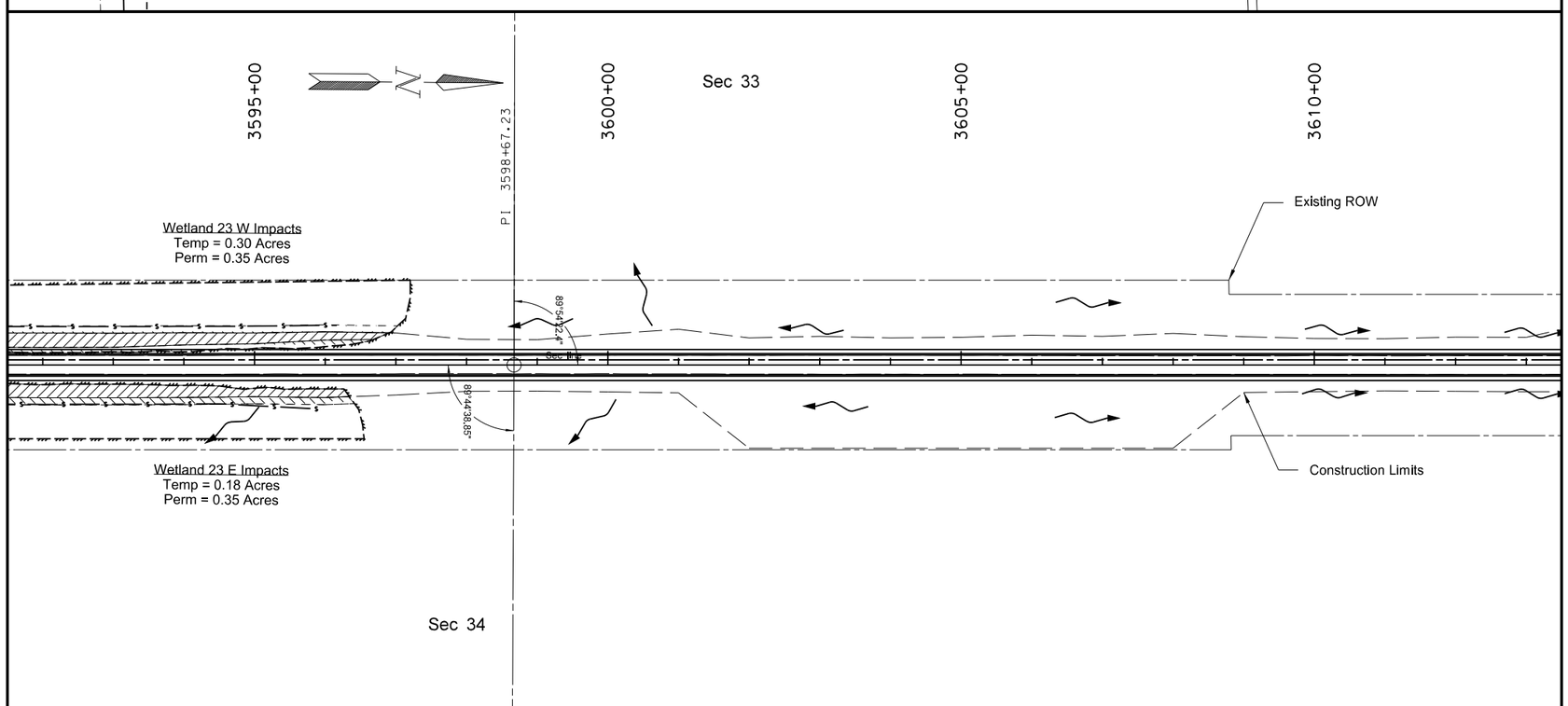
Wetlands, Mitigation, and Environmental

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	75	12





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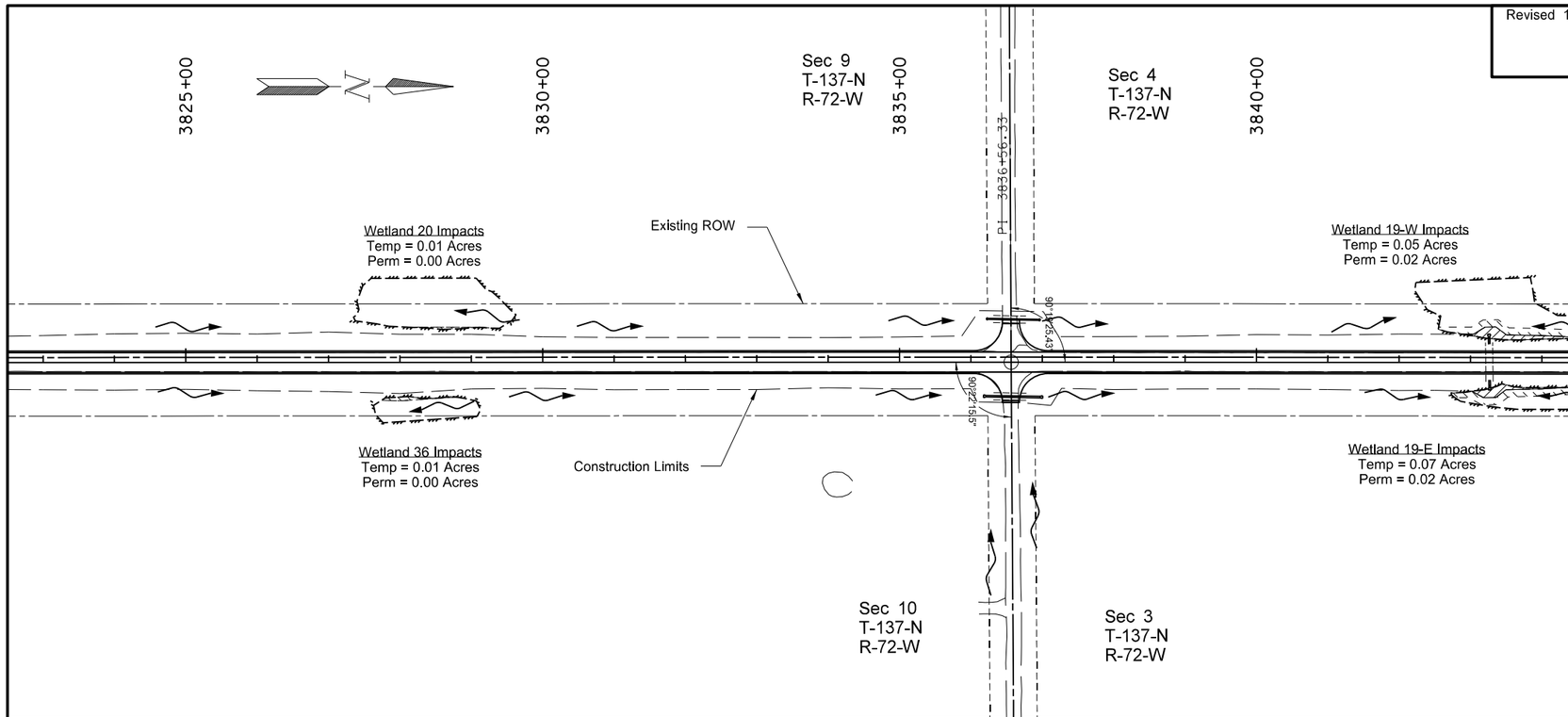
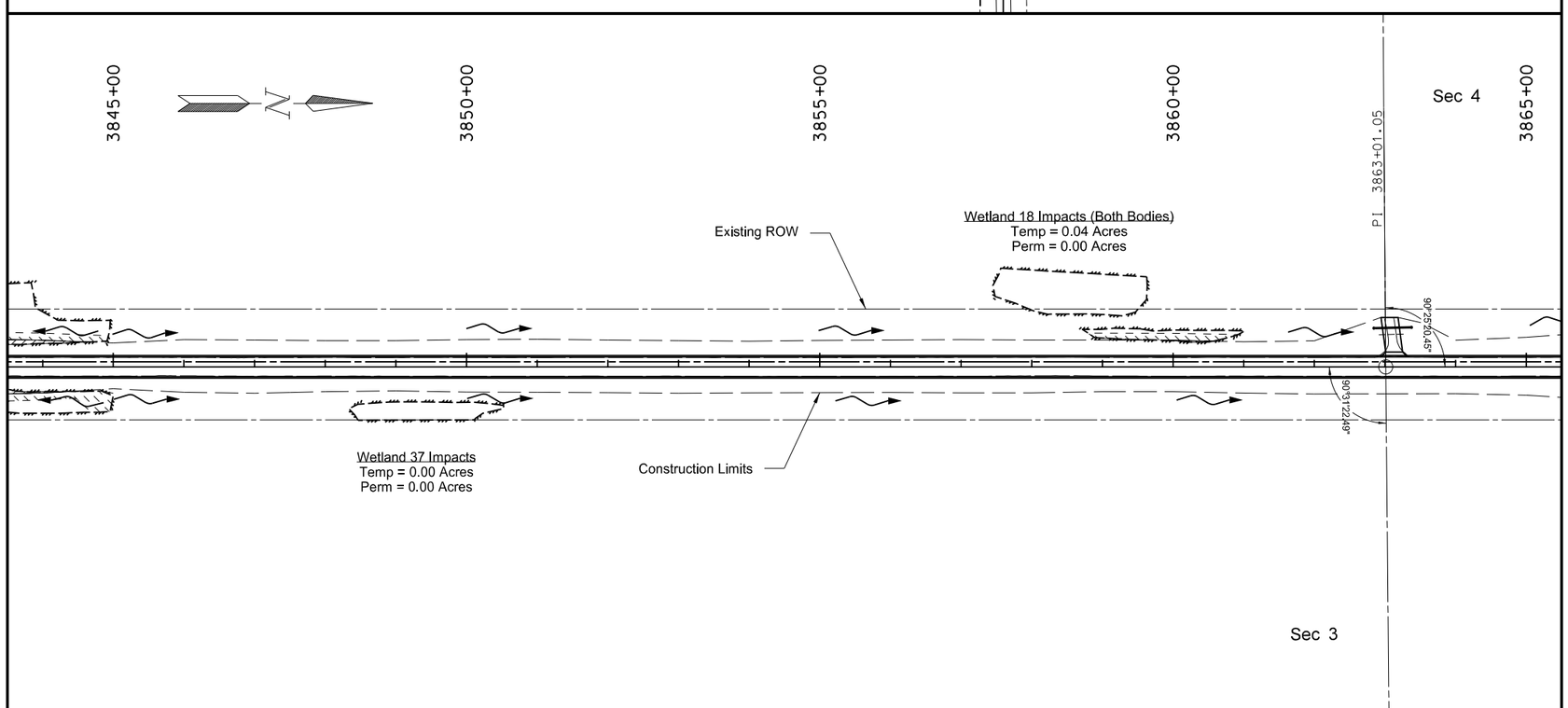
Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	75	18





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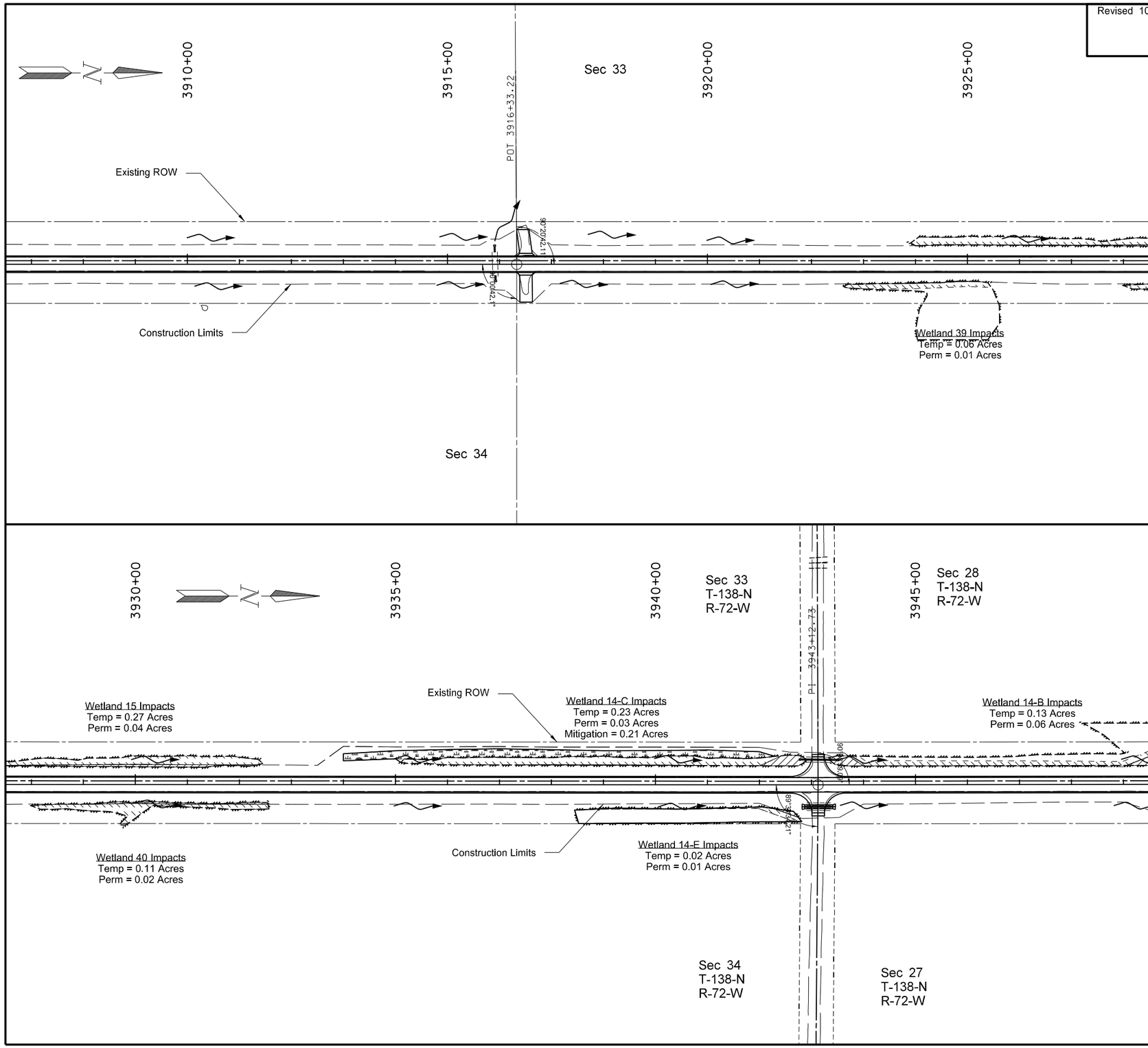
Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	75	20



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Temporary Wetlantd Impact

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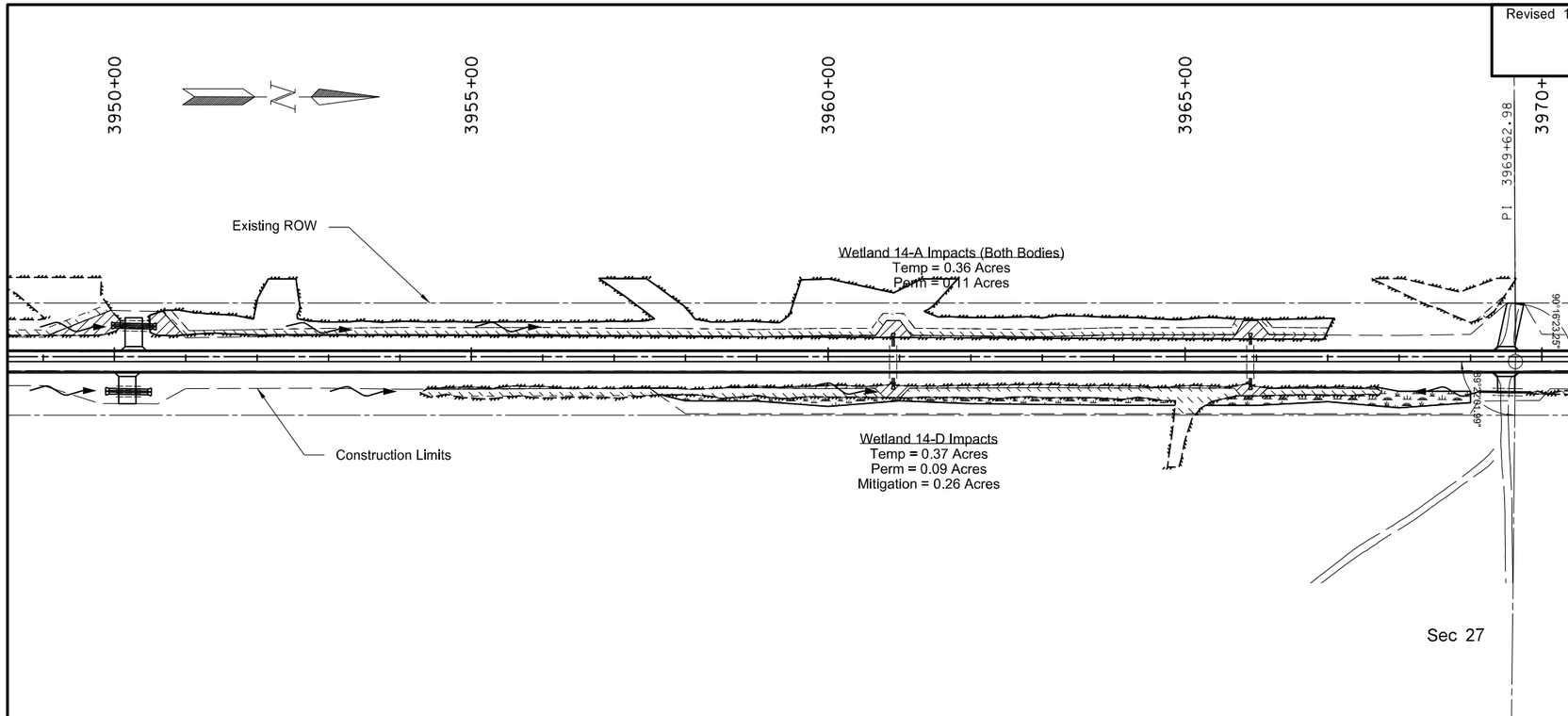
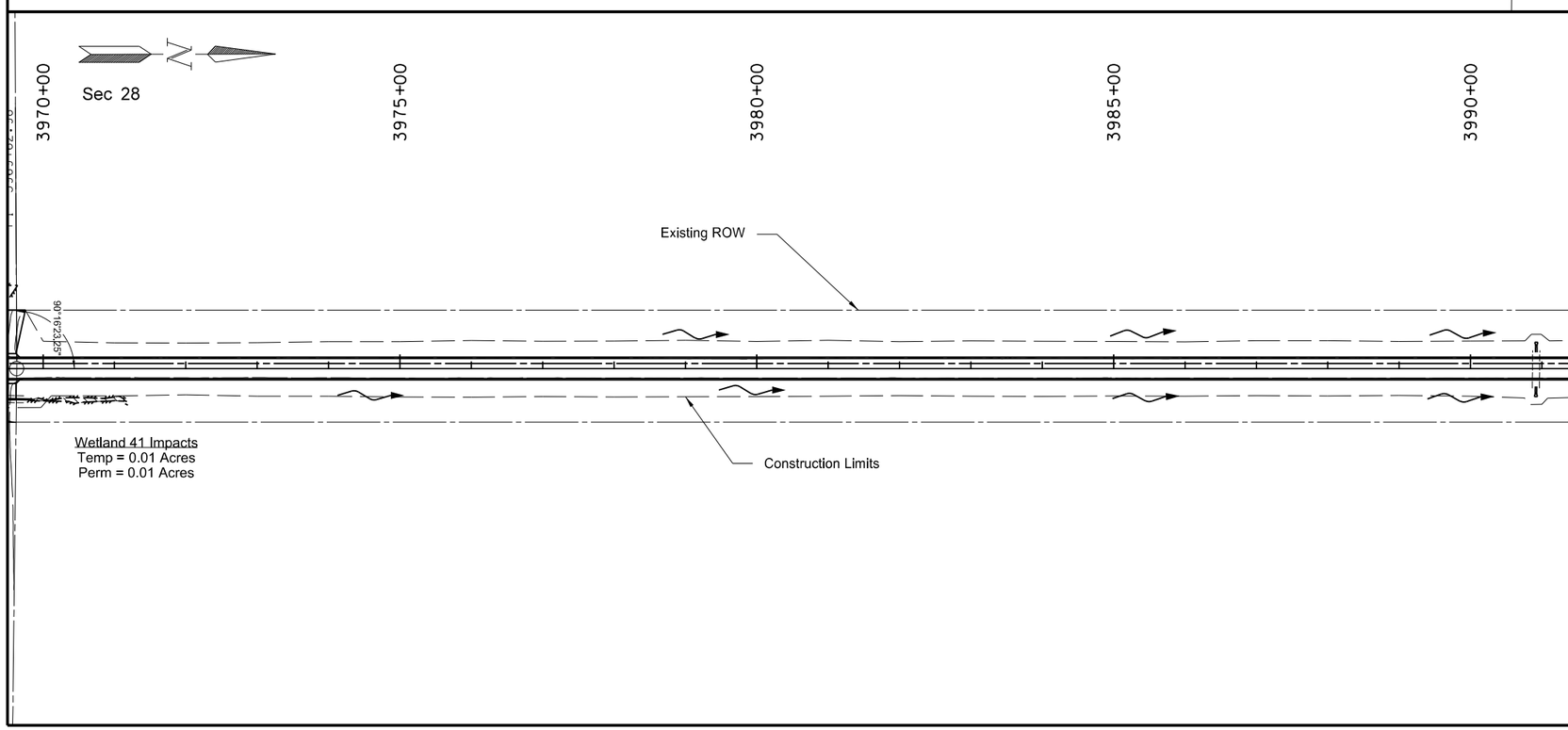
Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	75	21





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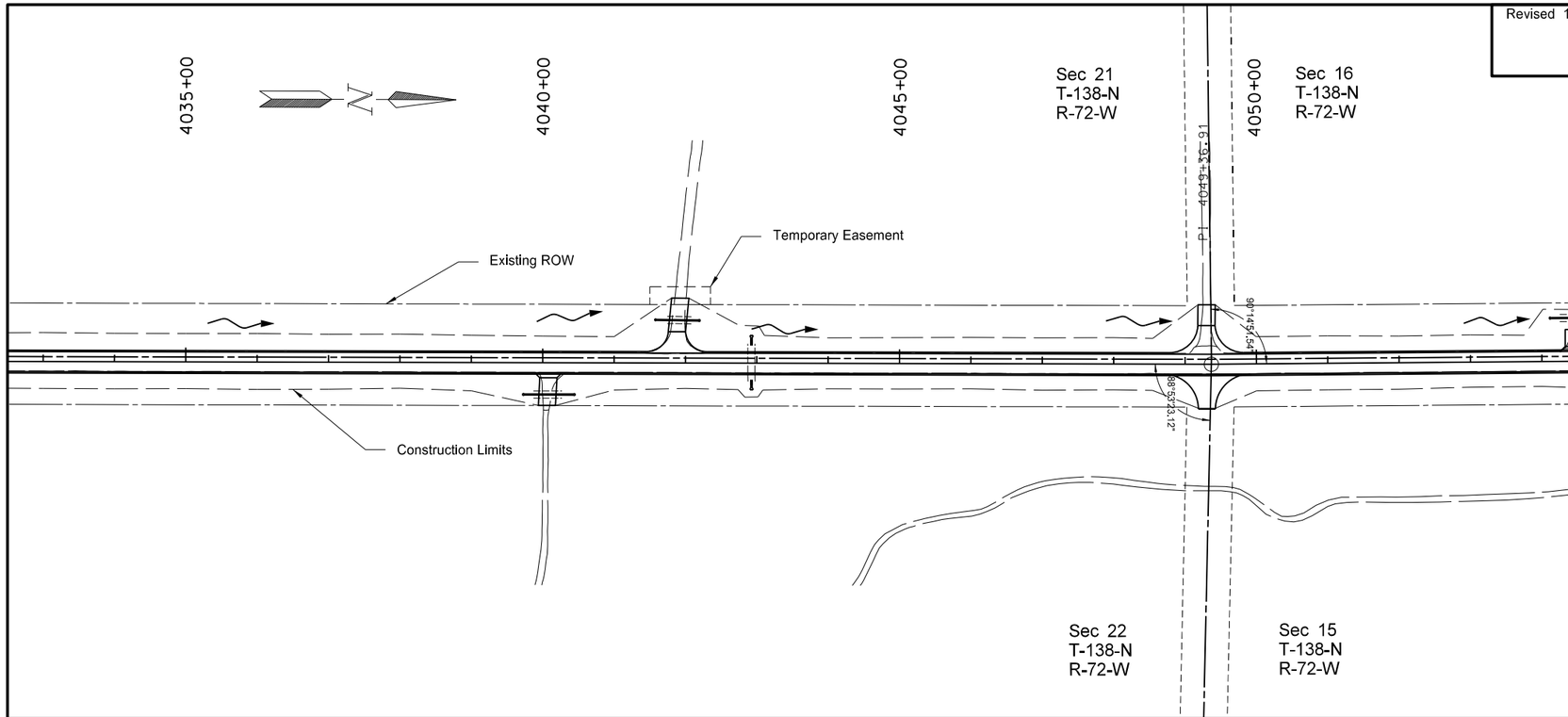
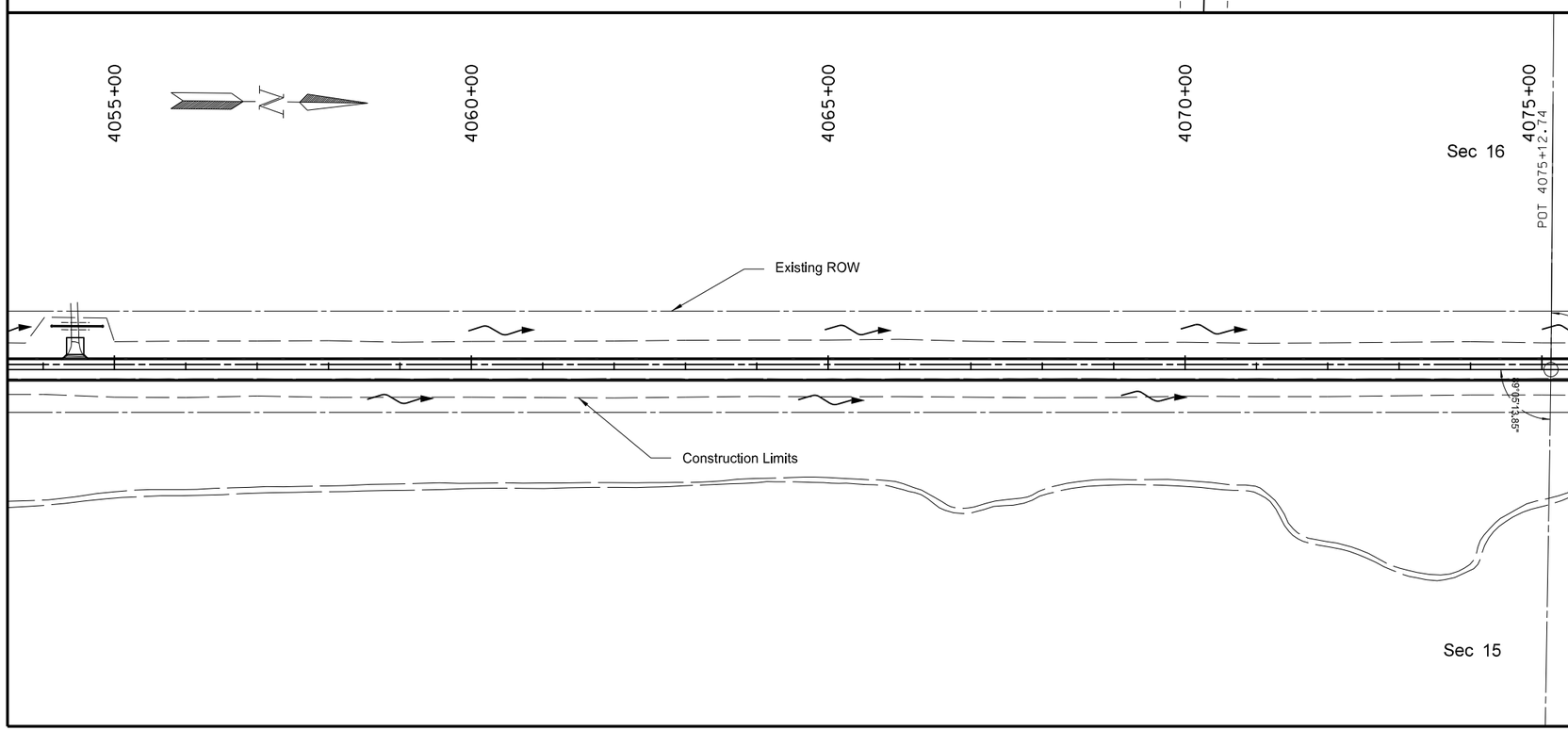
Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	75	23





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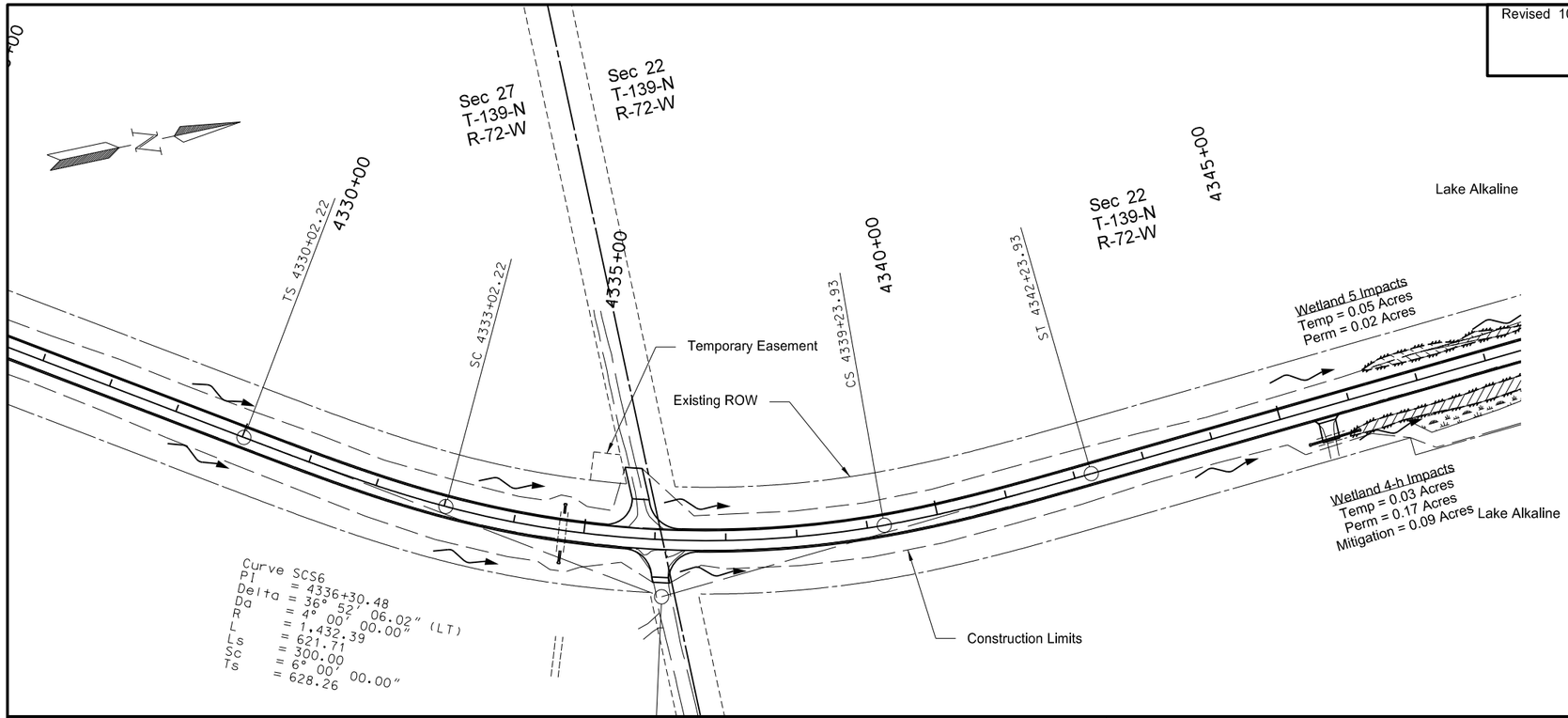
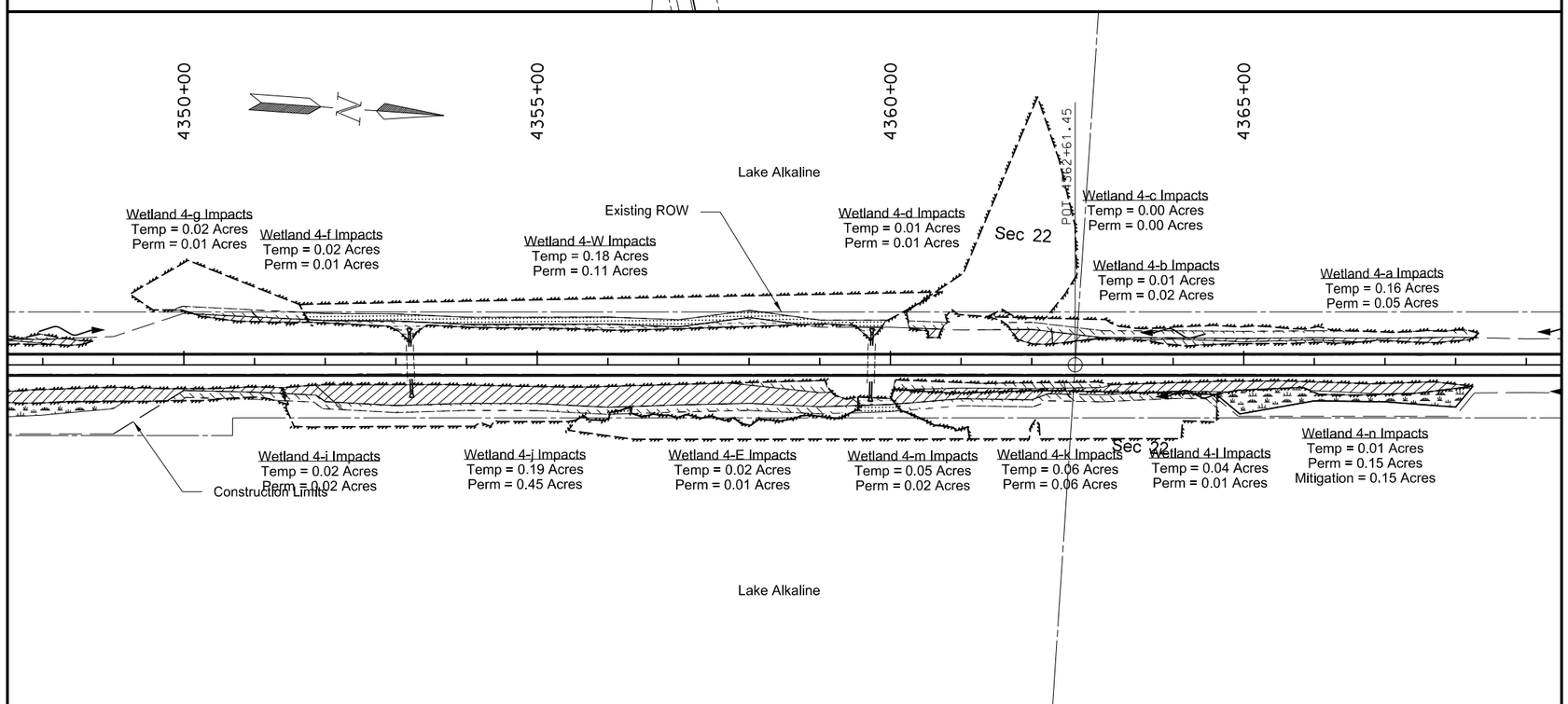
	ND	NH-RSS-1-003(034)059	75	30





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ND 3

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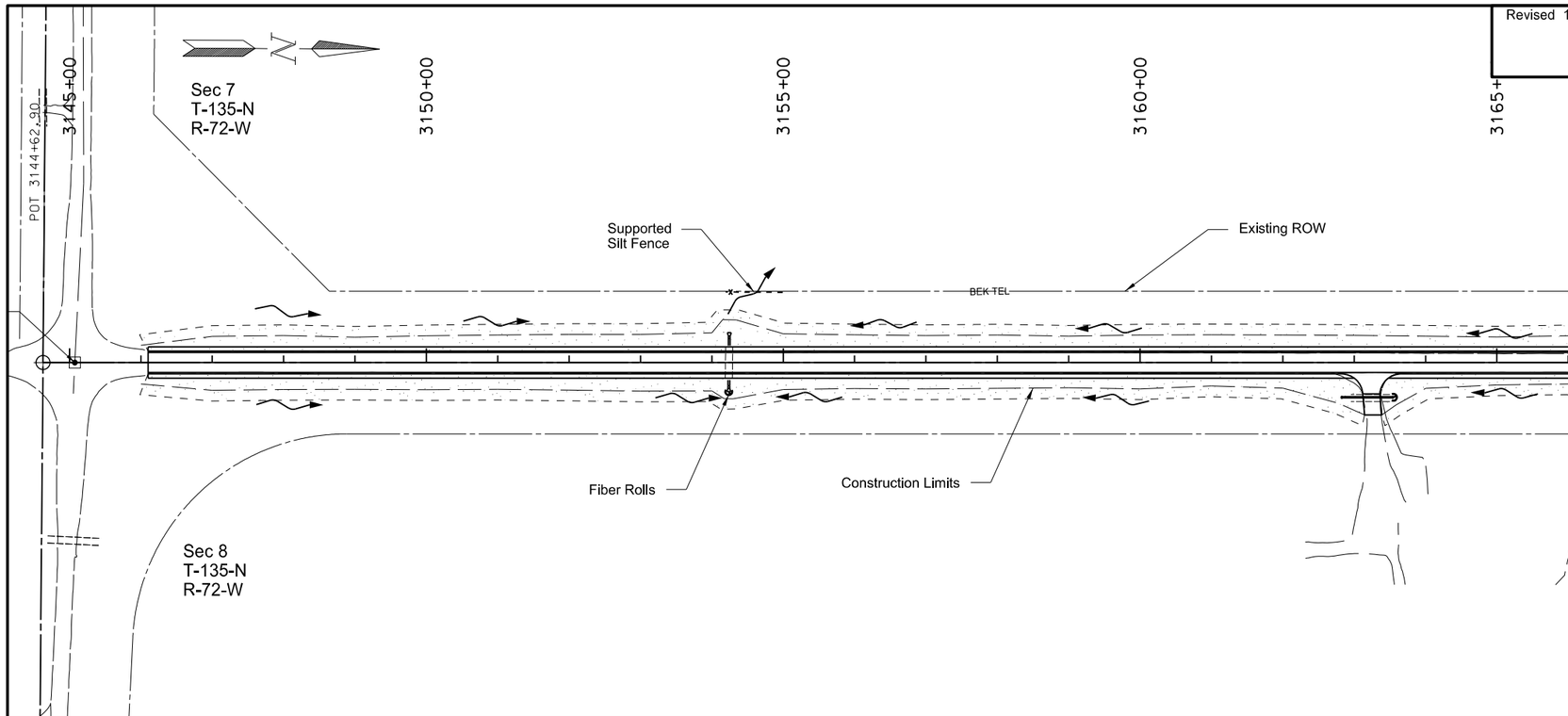
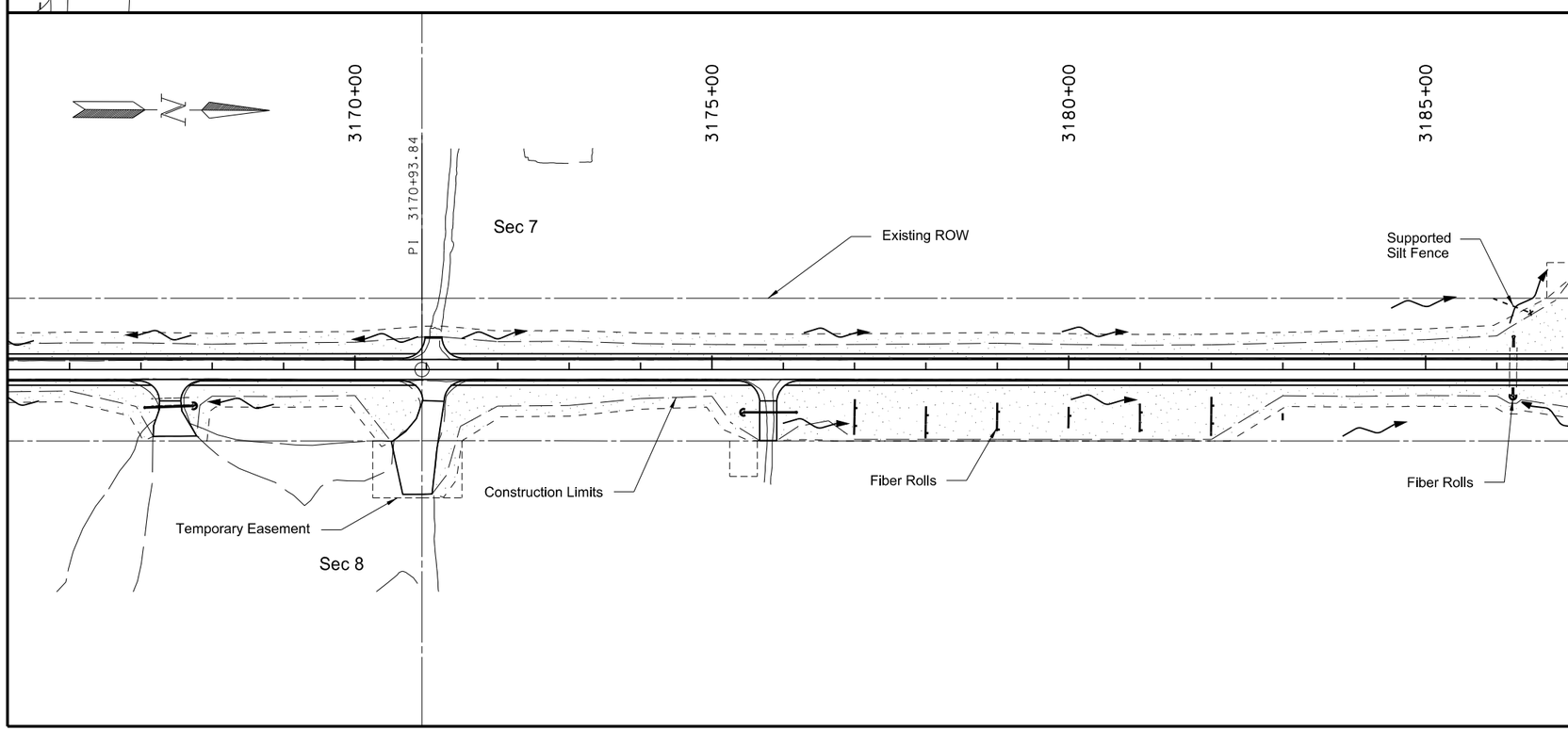
Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	76	1





SPEC	CODE	BID ITEM	QUANTITY	UNIT
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		3154+59 RT	80	LF
		3186+23 RT	60	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		3154+59 to 3186+23	140	LF
261	0112	FIBER ROLLS 12IN		
		3154+25 RT	20	LF
		3163+64 RT	20	LF
		3167+89 RT	20	LF
		3175+44 RT	20	LF
		3177+00 RT	50	LF
		3178+00 RT	45	LF
		3179+00 RT	40	LF
		3180+00 RT	30	LF
		3181+00 RT	40	LF
		3182+00 RT	55	LF
		3183+00 RT	10	LF
		3186+23 RT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		3154+25 to 3186+23	370	LF

Fiber Rolls

Supported Silt Fence

Floatation Silt Curtain

Temporary Seeding & Temporary Mulch

Wetland Mitigation

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Temporary Sediment and Erosion Control

ND 3

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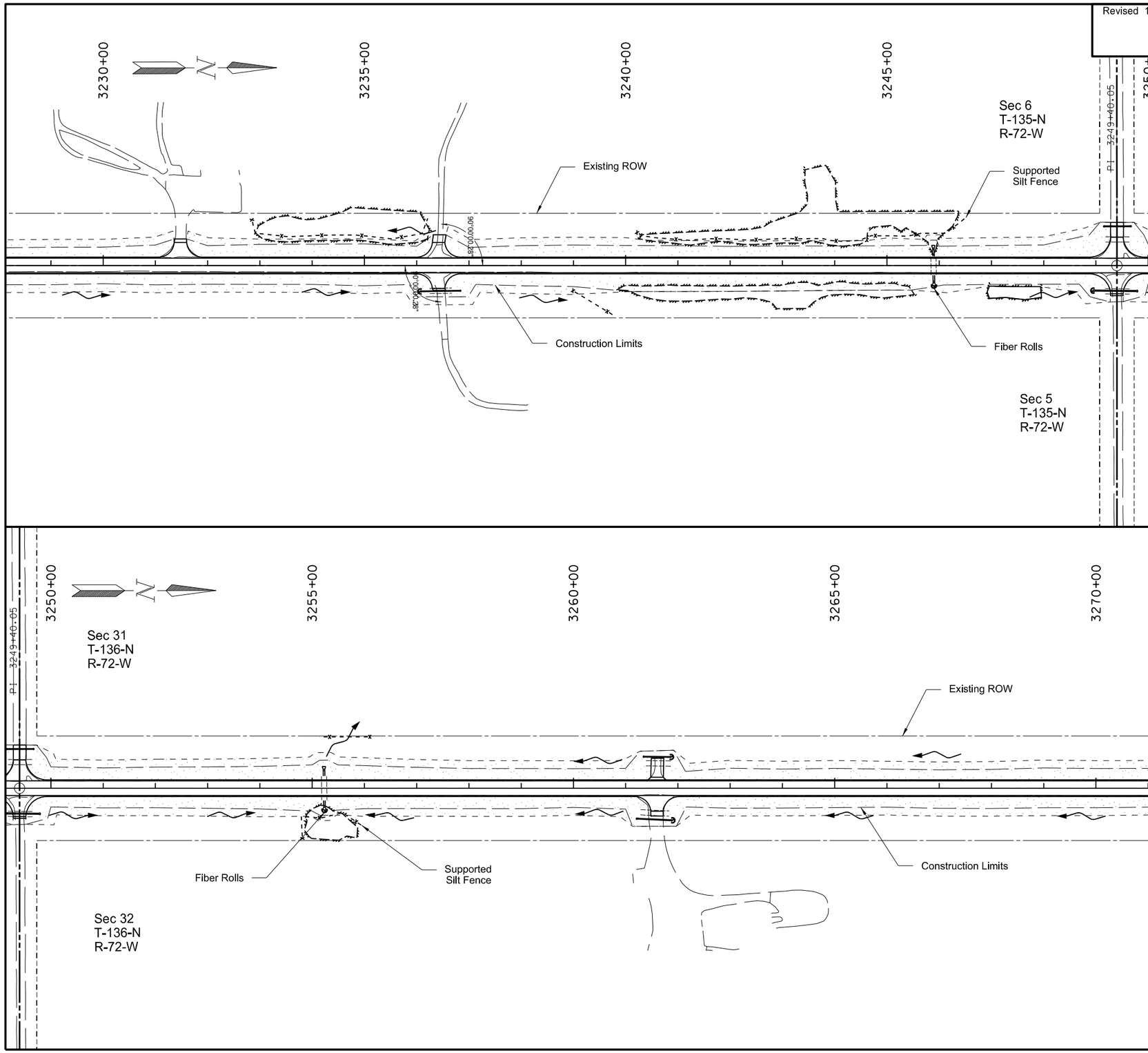

SPEC	CODE	BID ITEM	QUANTITY	UNIT
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		3234+50 LT	380	LF
		3239+40 RT	90	LF
		3243+00 LT	650	LF
		3255+25 RT	170	LF
		3255+64 LT	100	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		3234+50 to 3255+64	1,390	LF
261	0112	FIBER ROLLS 12IN		
		3236+04 RT	20	LF
		3245+90 RT	20	LF
		3248+88 RT	20	LF
		3255+23 RT	20	LF
		3261+96 LT	20	LF
		3262+01 RT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		3236+04 to 3262+01	120	LF

Fiber Rolls

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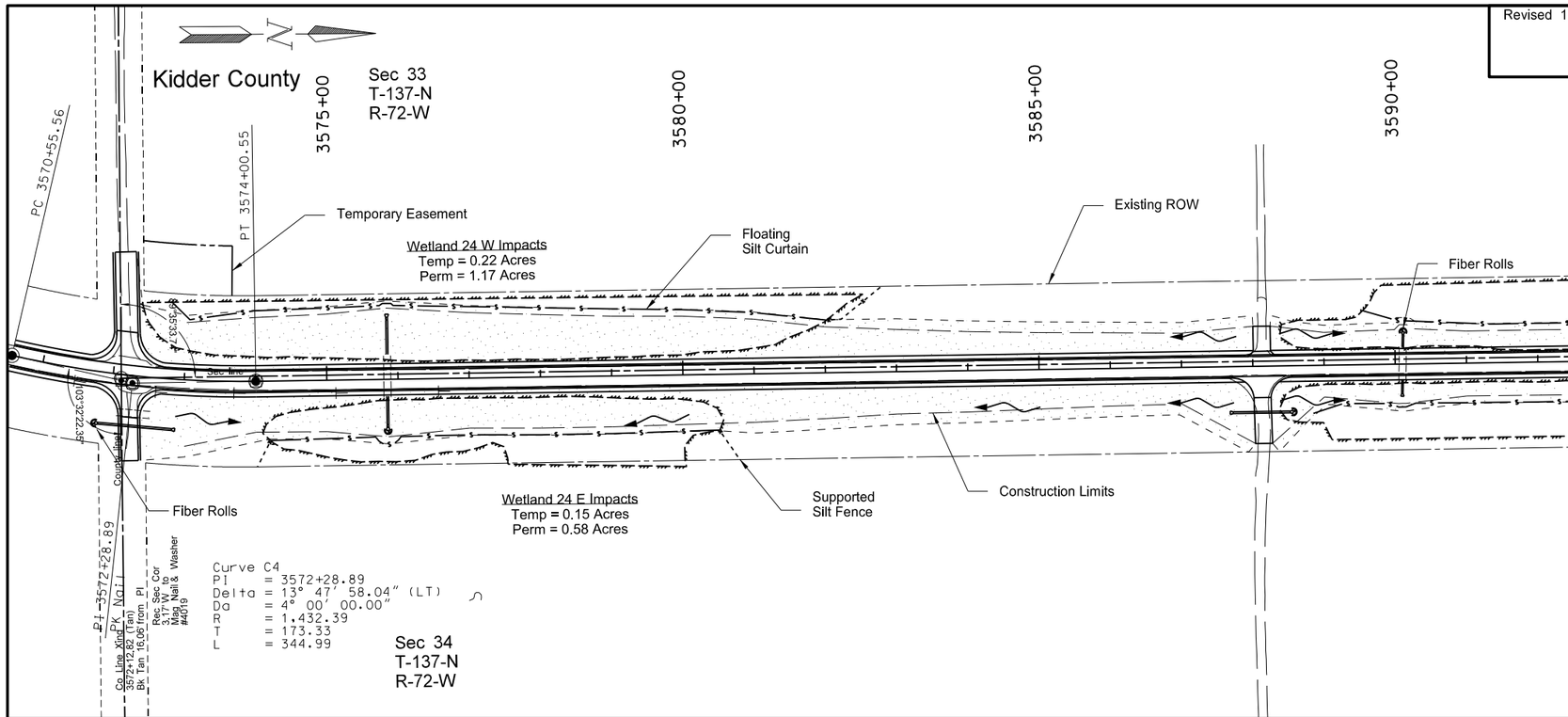

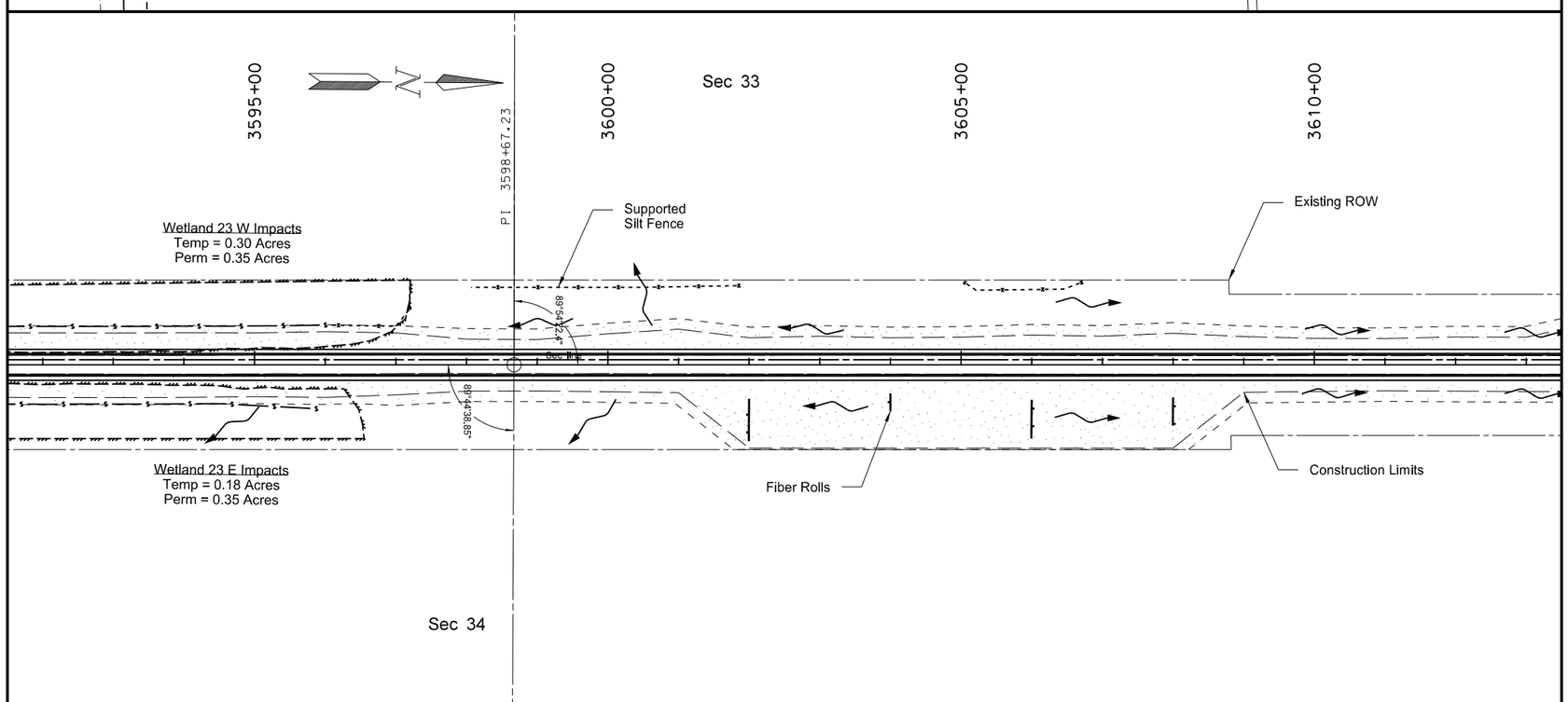

SPEC	CODE	BID ITEM	QUANTITY	UNIT
260	0200	SILT FENCE SUPPORTED		
		3574+00 RT	40	LF
		3580+50 RT	50	LF
		3582+50 LT	90	LF
		3596+75 LT	160	LF
		3600+10 LT	380	LF
		3606+00 LT	175	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		3574+00 to 3606+00	895	LF
261	0112	FIBER ROLLS 12IN		
		3571+90 RT	20	LF
		3575+85 RT	20	LF
		3588+40 RT	20	LF
		3590+10 LT	20	LF
		3602+00 RT	55	LF
		3604+00 RT	25	LF
		3606+00 RT	55	LF
		3608+00 RT	40	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		3571+90 to 3608+00	255	LF
262	0100	FLOTATION SILT CURTAIN		
		3577+25 RT	640	LF
		3577+50 LT	935	LF
		3592+40 RT	710	LF
		3592+75 LT	660	LF
262	0101	REMOVAL FLOTATION SILT CURTAIN		
		3577+25-3577+50	2,945	LF

Fiber Rolls

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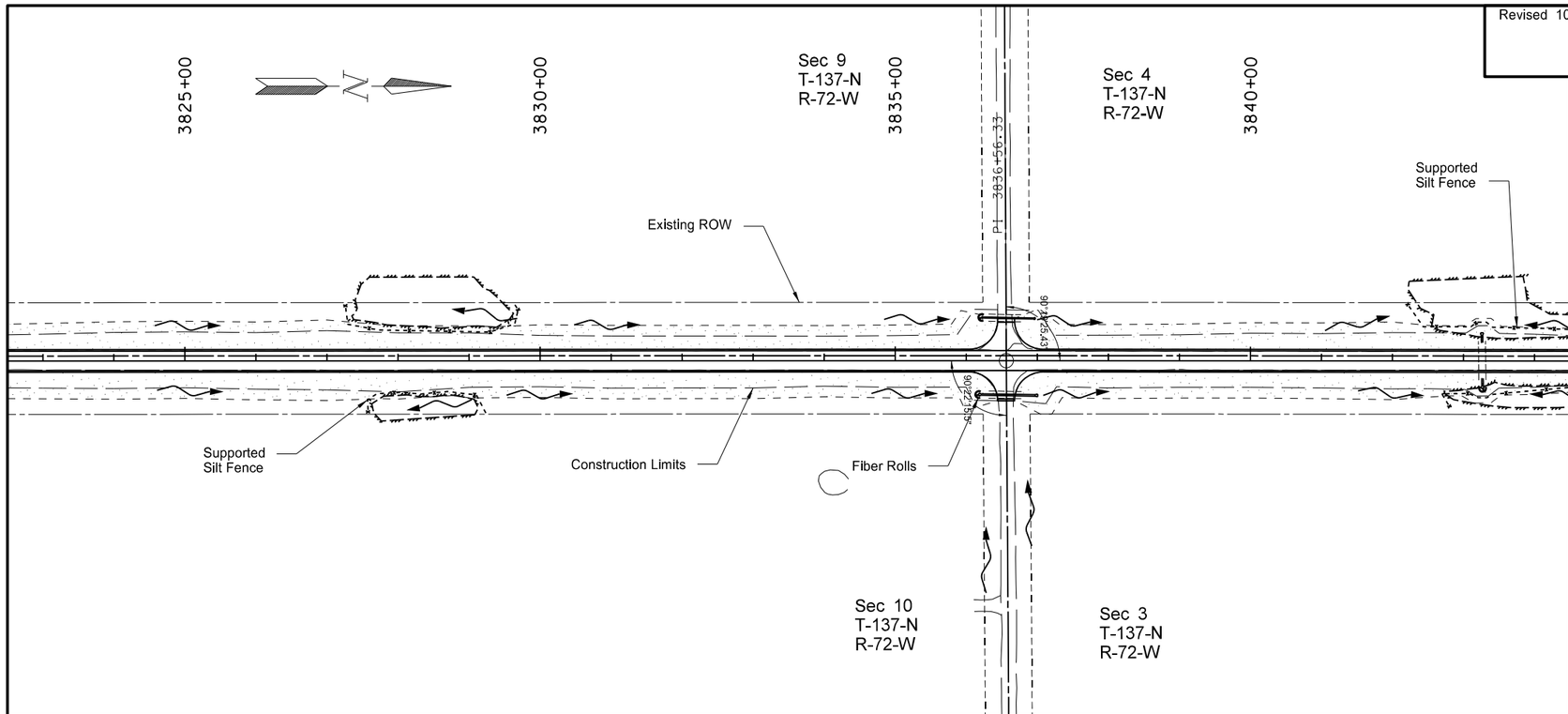

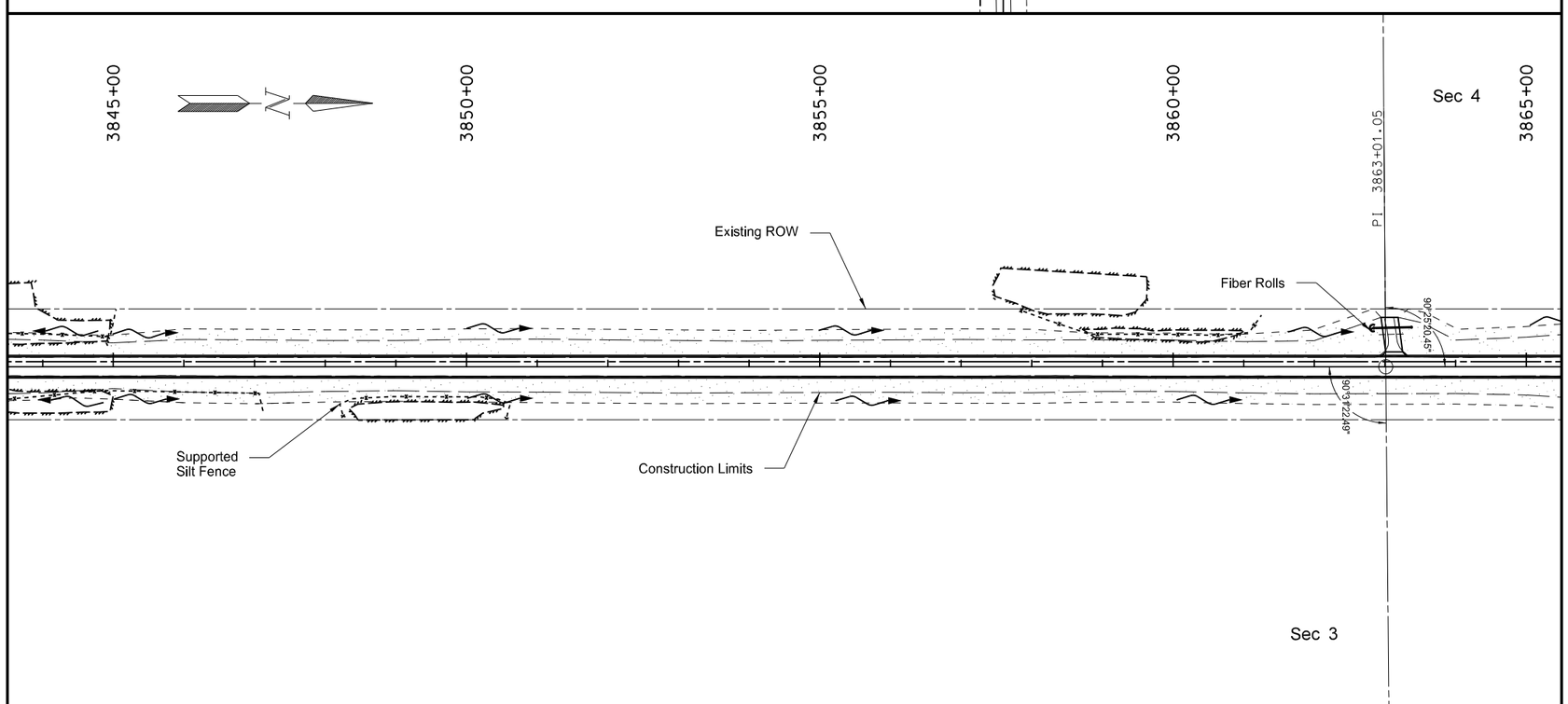

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		3828+25 RT	210	LF
		3828+50 LT	300	LF
		3843+60 LT	340	LF
		3843+80 RT	500	LF
		3849+25 RT	290	LF
		3859+55 LT	360	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		3828+25 to 3859+55	2,000	LF
261	0112	FIBER ROLLS 12IN		
		3836+06 LT	20	LF
		3836+10 RT	20	LF
		3843+27 RT	20	LF
		3862+83 LT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		3836+06 to 3862+83	80	LF

Fiber Rolls

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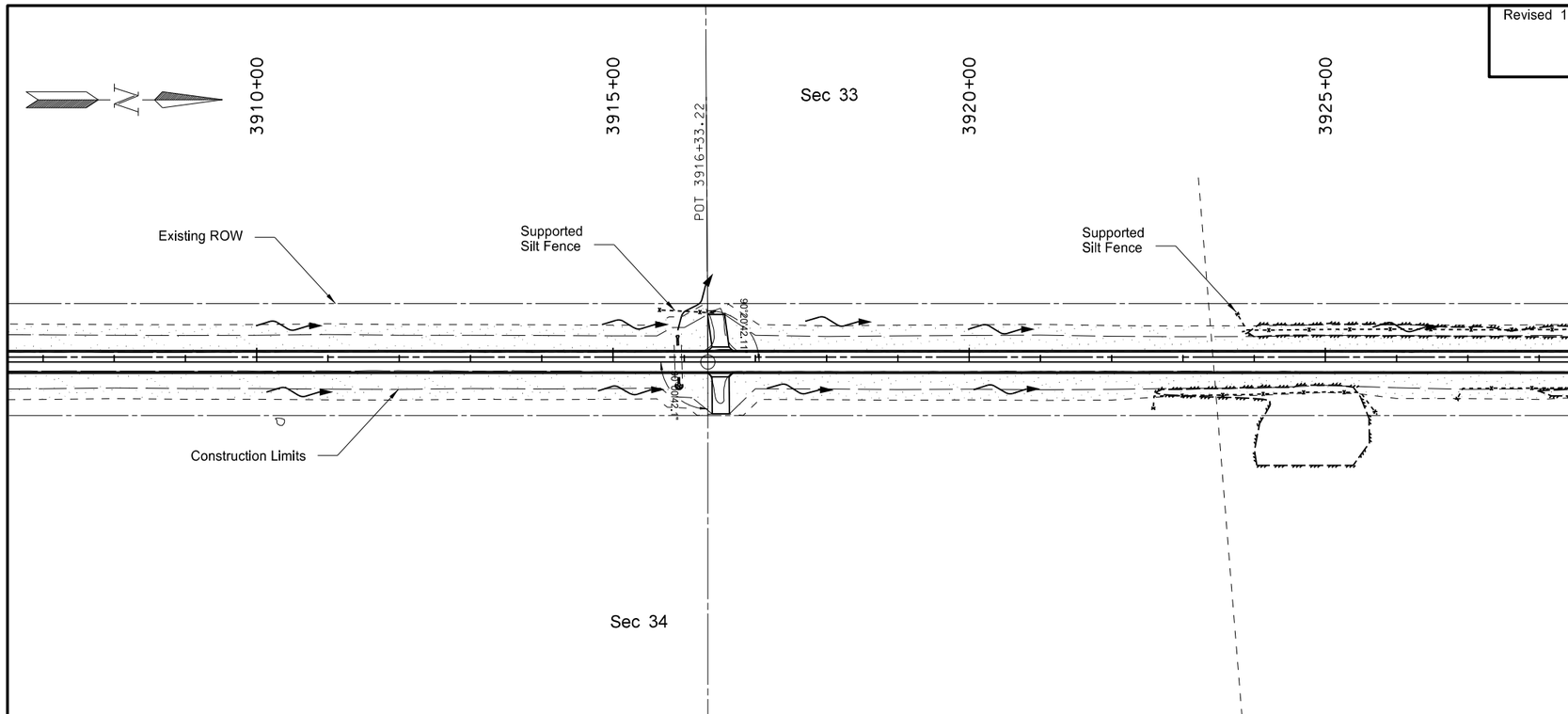

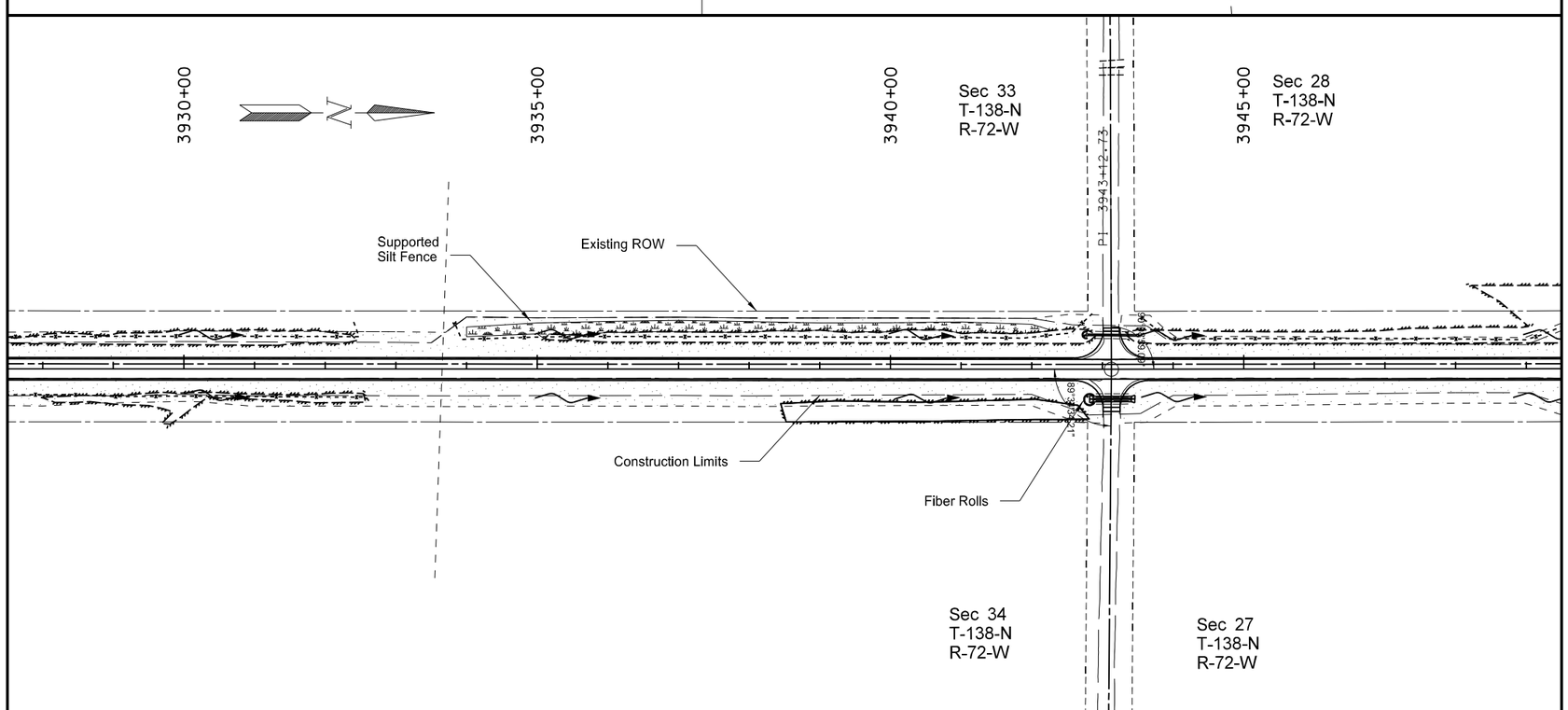

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		3916+02 LT	80	LF
		3924+00 RT	350	LF
		3928+25 LT	910	LF
		3929+20 RT	600	LF
		3939+25 LT	930	LF
		3947+00 LT	665	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		3916+02 to 3947+00	3,535	LF
261	0112	FIBER ROLLS 12IN		
		3915+93 RT	20	LF
		3942+68 LT	20	LF
		3942+74 RT	40	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		3915+93 to 3942+74	80	LF

Fiber Rolls

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Temporary Seeding & Temporary Mulch

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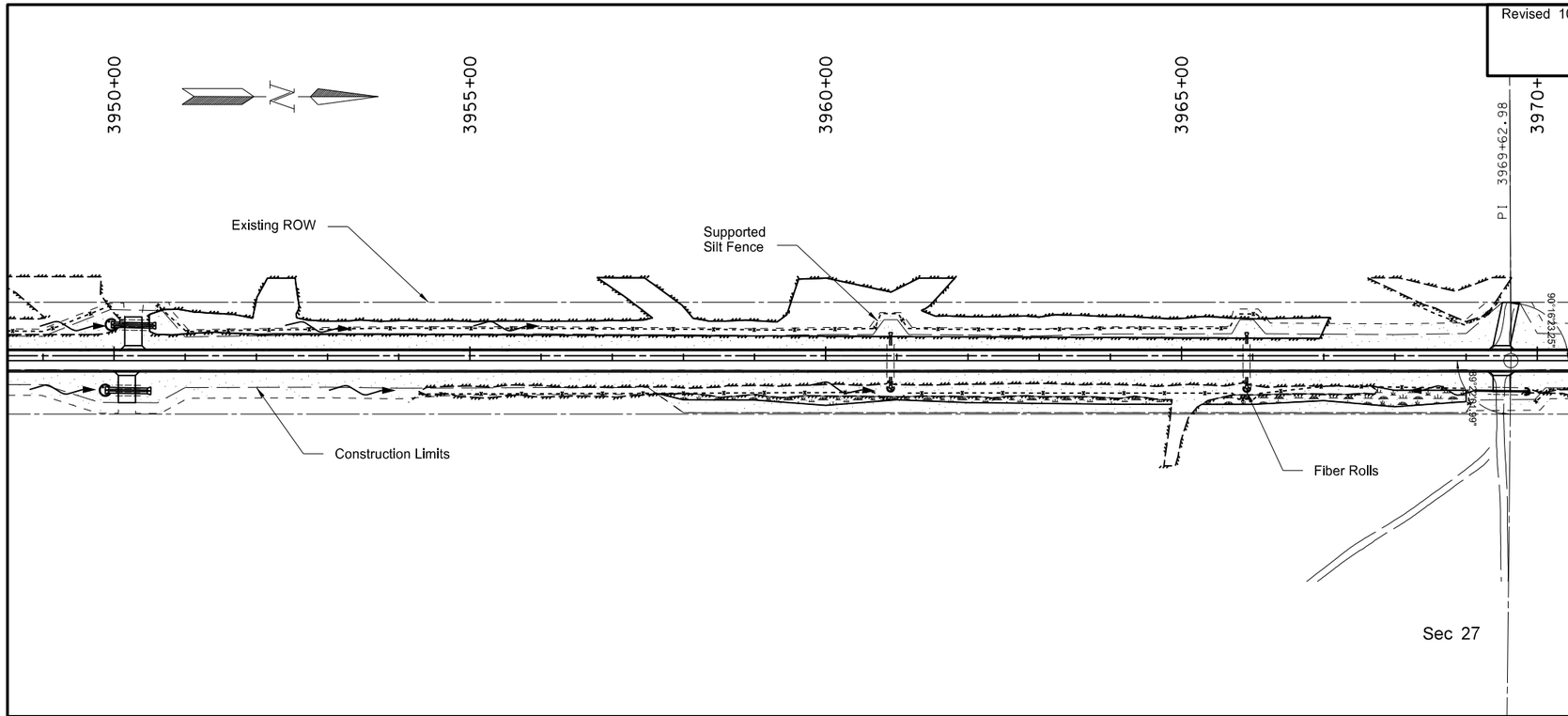

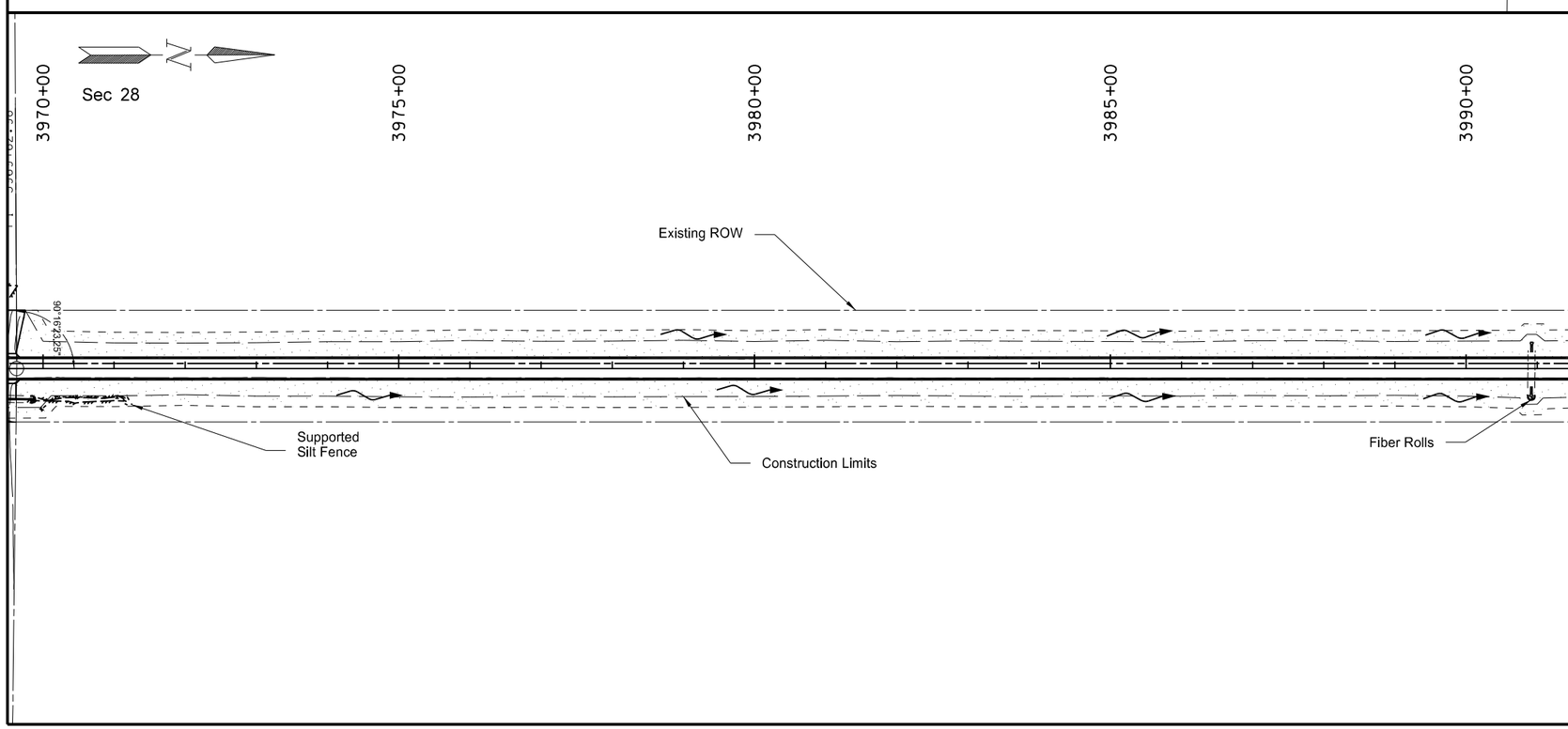

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		3959+90 RT	1,530	LF
		3969+00 LT	140	LF
		3970+40 RT	150	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		3958+25 to 3970+40	3,450	LF
261	0112	FIBER ROLLS 12IN		
		3949+90 RT	40	LF
		3949+93 LT	40	LF
		3960+91 RT	20	LF
		3965+92 RT	20	LF
		3969+93 RT	20	LF
		3990+91 RT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		3949+90 to 3990+91	160	LF

Fiber Rolls

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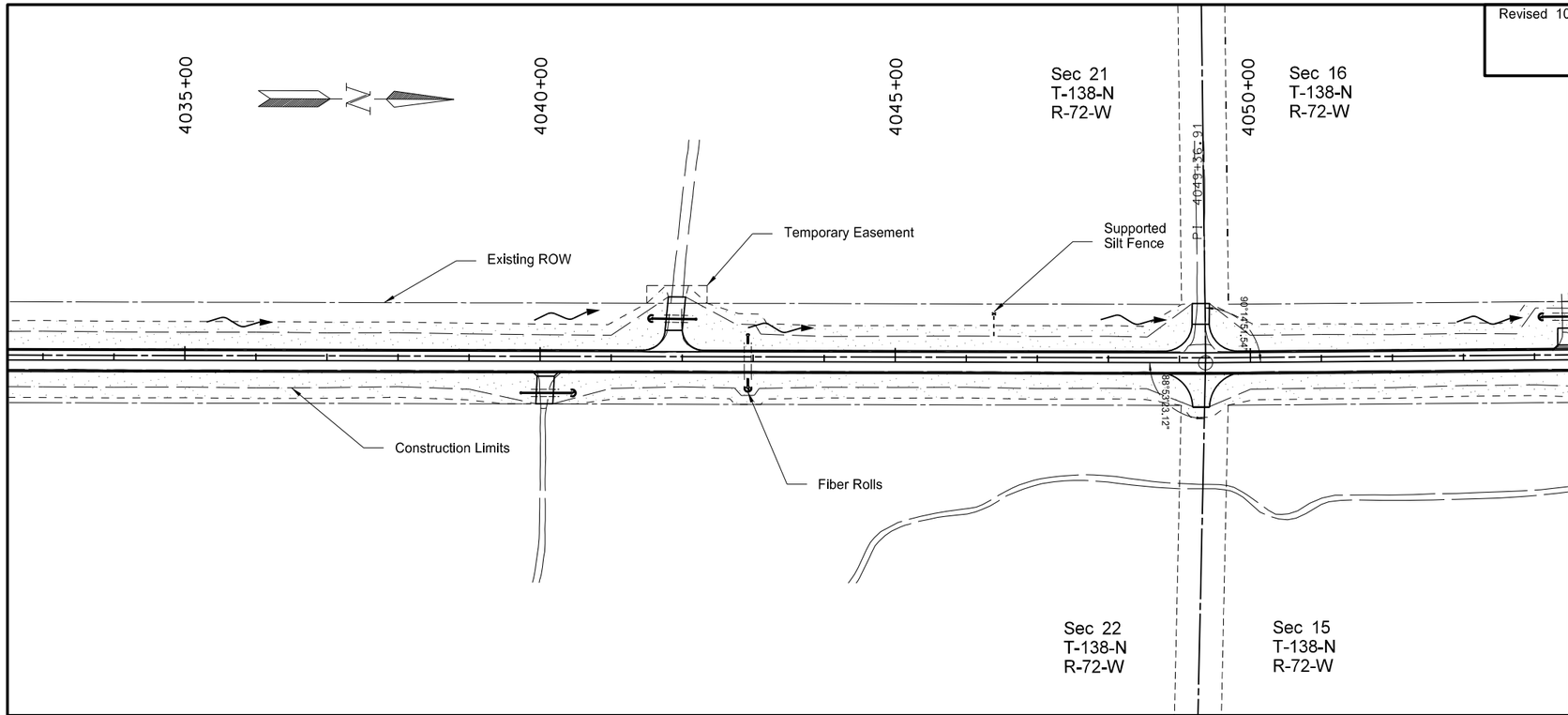

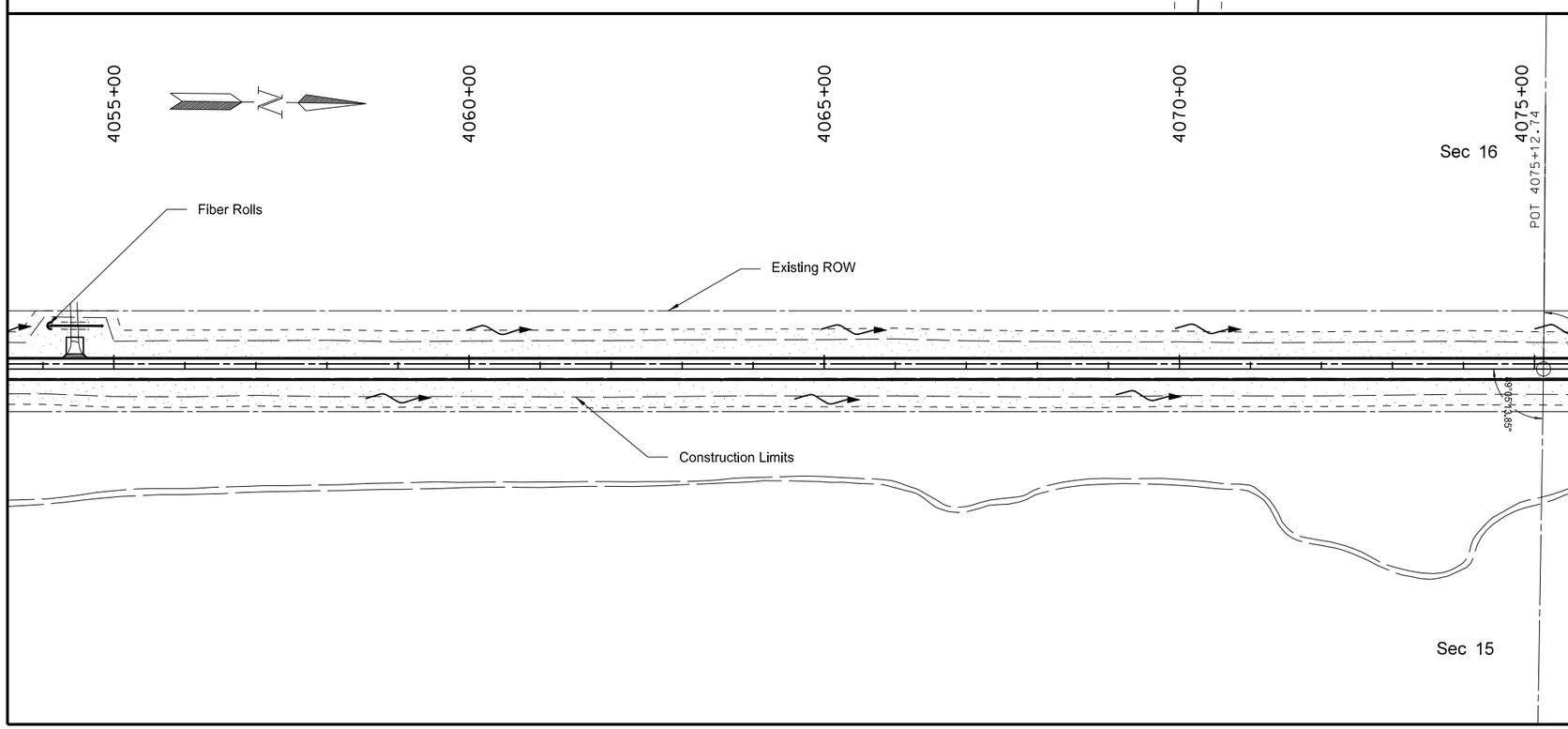

SPEC	CODE	BID ITEM	QUANTITY	UNIT
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		4046+39 LT	40	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		4046+39	40	LF
261	0112	FIBER ROLLS 12IN		
		4040+47 RT	20	LF
		4041+58 LT	20	LF
		4042+92 RT	20	LF
		4054+06 LT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		4040+47 to 4054+06	80	LF

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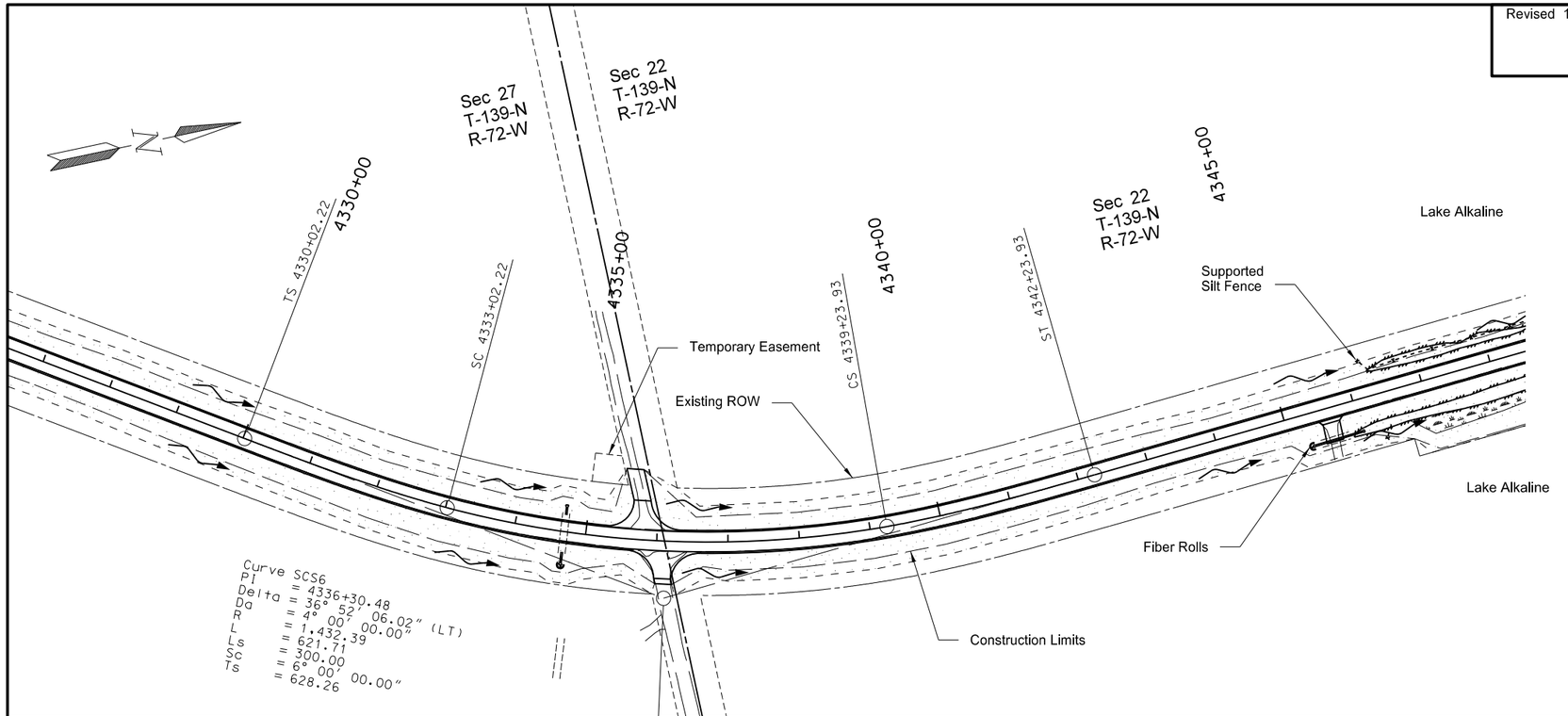
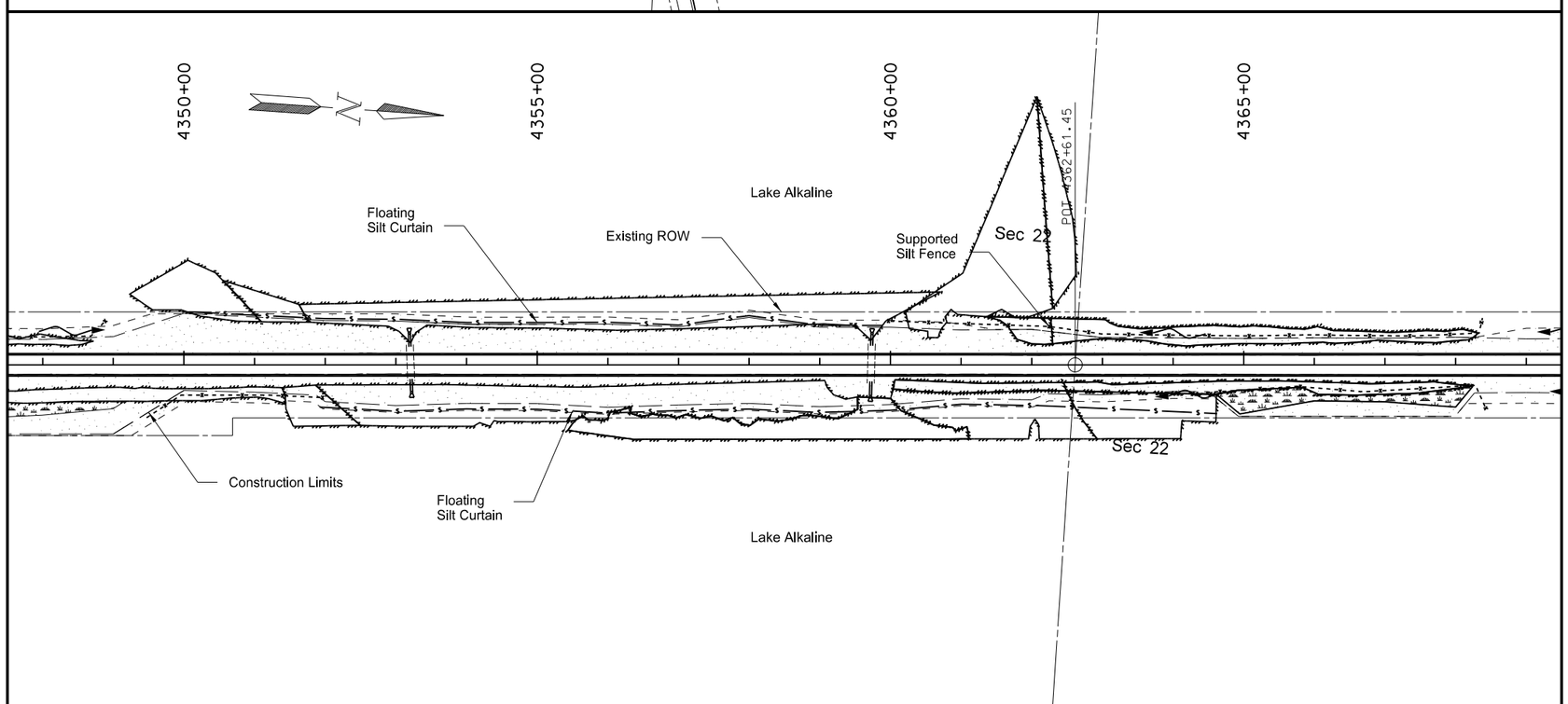


SPEC	CODE	BID ITEM	QUANTITY	UNIT
260	0200	SILT FENCE SUPPORTED		
		4347+50 LT	300	LF
		4351+00 RT	260	LF
		4364+15 LT	860	LF
		4366+50 RT	430	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		4347+50 to 4364+15	1,850	LF
261	0112	FIBER ROLLS 12IN		
		4334+70 RT	20	LF
		4345+22 RT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		4334+70 to 4345+22	40	LF
262	0100	FLOTATION SILT CURTAIN		
		4355+00 LT	980	LF
		4357+50 RT	1,270	LF
262	0101	REMOVAL FLOTATION SILT CURTAIN		
		4355+00	2,250	LF



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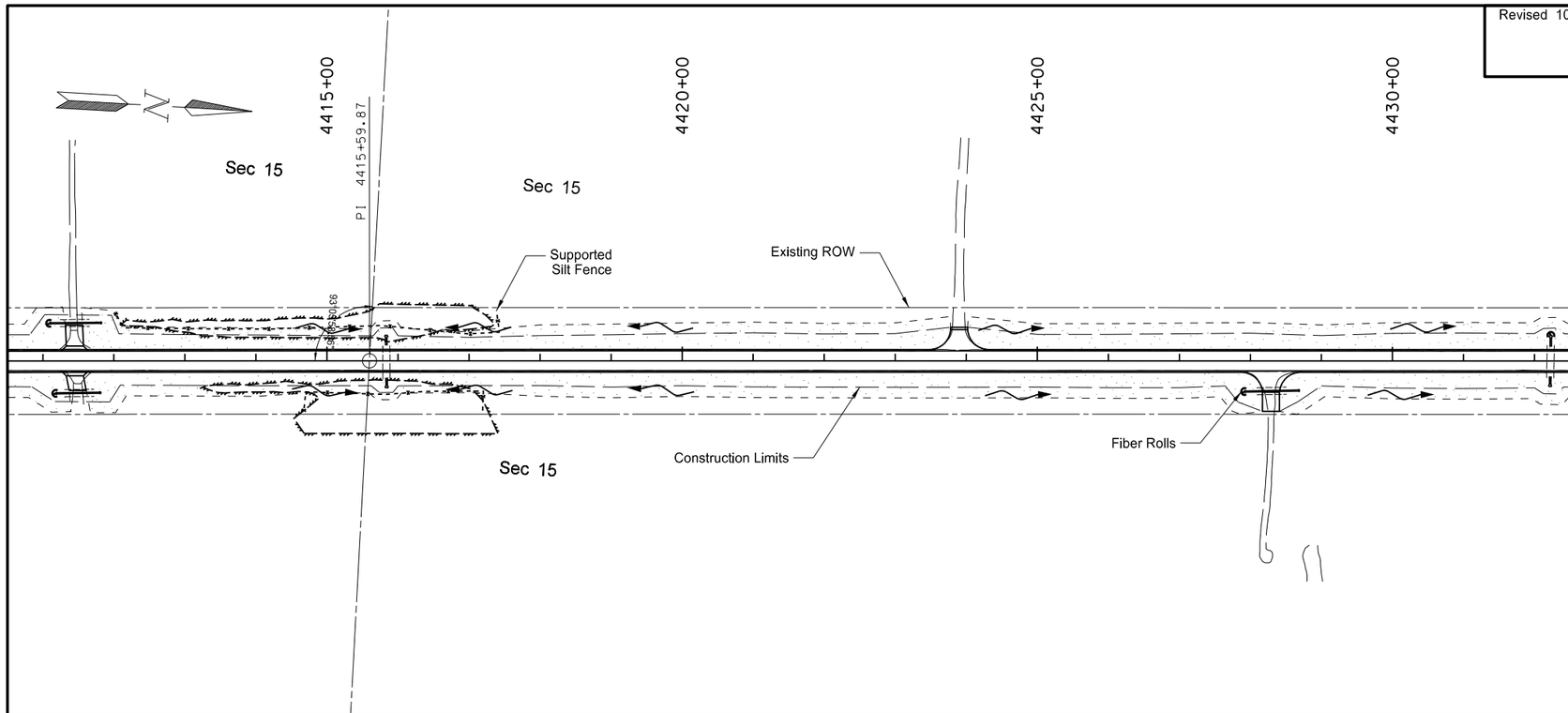
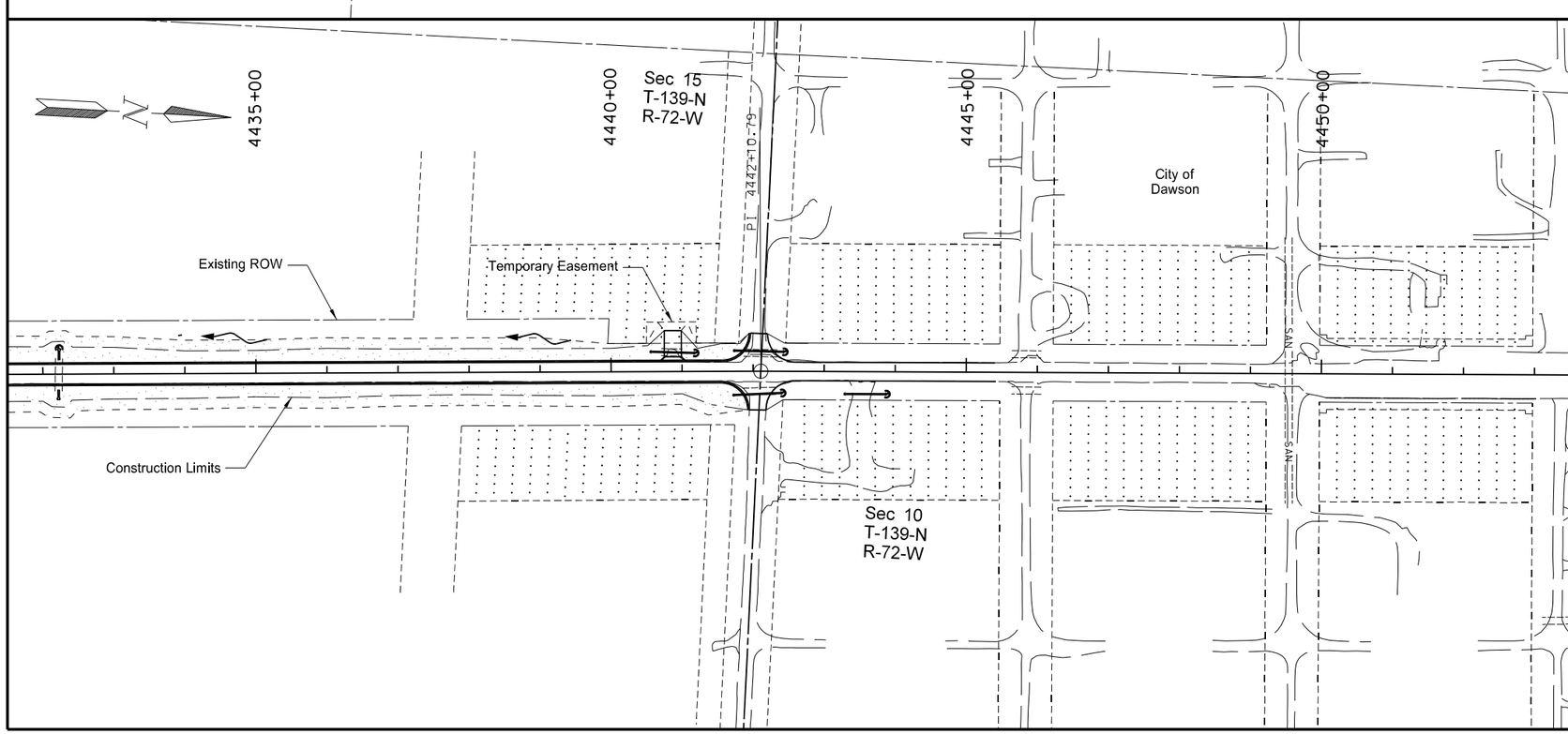
	ND	NH-RSS-1-003(034)059	76	32





SPEC	CODE	BID ITEM	QUANTITY	UNIT
251	2000	TEMPORARY COVER CROP		
		3146+10 to 4484+40	249	ACRE
253	0101	STRAW MULCH		
		3146+10 to 4484+40	249	ACRE
260	0200	SILT FENCE SUPPORTED		
		4414+75 LT	580	LF
		4415+90 RT	310	LF
260	0201	REMOVAL SILT FENCE SUPPORTED		
		4414+75 to 4415+90	890	LF
261	0112	FIBER ROLLS 12IN		
		4415+83 LT	20	LF
		4427+88 RT	20	LF
		4432+23 LT	20	LF
		4441+19 LT	20	LF
		4442+40 LT	20	LF
		4442+41 RT	20	LF
		4443+88 RT	20	LF
261	0113	REMOVAL FIBER ROLLS 12IN		
		4415+83 to 4443+88	140	LF

Fiber Rolls

Supported Silt Fence

Floatation Silt Curtain

Temporary Seeding & Temporary Mulch

Wetland Mitigation

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Temporary Sediment and Erosion Control

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	76	33

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet	
	LT	RT	LT	RT
3154+25				20'
3163+64				20'
3167+89				20'
3175+44				20'
3177+00		50'		
3178+00		45'		
3179+00		40'		
3180+00		30'		
3181+00		40'		
3182+00		55'		
3183+00		10'		
3186+23				20'
3197+04				20'
3204+48				20'
3212+54			20'	
3226+54				20'
3236+04				20'
3245+90				20'
3248+88				20'
3255+23				20'
3261+96			20'	
3262+01				20'
3283+56				20'
3286+00		50'		
3288+00		35'		
3290+00		35'		
3292+00		45'		
3294+00		40'		
3295+00		55'		
3295+56				20'
3314+60				20'
3319+00	20'			
3320+00	45'			
3321+00	40'			
3322+00	45'			
3323+00	45'			
3324+00	45'			
3325+00	35'			
3326+00	40'			
3327+00	15'			
3331+58				20'
3355+21				20'
3355+21			20'	
3381+84			20'	
3381+85				20'
3391+00		15'		
3392+00		55'		
3392+50		80'		
3393+00		100'		
3393+50		100'		
3394+00		100'		
3394+50		100'		
3395+00		100'		
3396+00		15'		
3401+00		55'		
3401+50		40'		
3402+00		25'		
3402+50		20'		
3403+00		20'		
3403+40		35'		
3403+80		55'		
3404+20		65'		
3404+60		75'		

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet	
	LT	RT	LT	RT
3405+00		90'		
3407+72				20'
3410+00		45'		
3410+50		40'		
3411+00		35'		
3411+50		35'		
3412+15		35'		
3412+80		40'		
3413+45		45'		
3414+00		50'		
3416+83				20'
3428+79				20'
3434+50			20'	
3434+87				20'
3454+59				20'
3454+67			20'	
3461+25				20'
3480+00		20'		
3480+30		30'		
3480+70		40'		
3481+10		45'		
3481+50		40'		
3481+90		35'		
3482+30		40'		
3482+70		45'		
3483+10		50'		
3483+50		60'		
3484+00		70'		
3485+00		65'		
3486+00		80'		
3493+00	55'			
3494+00	40'			
3495+00	35'			
3496+00	45'			
3497+00	15'			
3500+17			20'	
3513+97				20'
3513+99			20'	
3529+76				20'
3534+09				20'
3538+00		35'		
3539+00		55'		
3540+00		75'		
3541+00		55'		
3542+00		65'		
3543+00		75'		
3557+26				20'
3571+90				20'
3575+85				20'
3588+40				20'
3590+10			20'	
3602+00		55'		
3604+00		25'		
3606+00		55'		
3608+00		40'		
3613+91			20'	
3616+90			20'	
3625+72			20'	
3639+52			20'	
3644+00		70'		
3645+00		50'		
3646+00		75'		
3648+00		60'		

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet	
	LT	RT	LT	RT
3673+45			20'	
3677+52			20'	
3677+73				20'
3680+10			20'	
3695+26				20'
3705+16			20'	
3707+95			20'	
3708+00		75'		
3709+00		60'		
3709+80		55'		
3710+20		50'		
3710+60		45'		
3711+00		45'		
3711+28			20'	
3714+00		55'		
3714+50		40'		
3715+00		20'		
3715+50		20'		
3716+00		25'		
3717+00		55'		
3717+99				20'
3718+67			20'	
3745+00		90'		
3745+50		90'		
3746+00		85'		
3747+00		85'		
3749+00		55'		
3750+00		60'		
3751+00		90'		
3757+28				20'
3760+27				20'
3768+92				20'
3775+00		55'		
3776+00		30'		
3777+00		35'		
3779+00		70'		
3782+00		65'		
3784+22				20'
3791+42				20'
3795+26				20'
3795+33			20'	
3804+85				20'
3810+55				20'
3836+06			20'	
3836+10				20'
3843+27				20'
3862+83			20'	
3866+15				20'
3883+91				20'
3889+08				20'
3889+13			20'	
3896+45				20'
3915+93				20'
3942+68			20'	
3942+74				40'
3949+90				40'
3949+93			40'	
3960+91				20'
3965+92				20'
3969+93				20'
3990+91				20'
3996+54			20'	
3996+54				20'

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet	
	LT	RT	LT	RT
4022+01			20'	
4027+93				20'
4040+47				20'
4041+58			20'	
4042+92				20'
4054+06			20'	
4077+47				20'
4088+92				20'
4100+48				20'
4100+49			20'	
4103+97				20'
4112+85				20'
4114+79				20'
4130+29				20'
4148+78				20'
4154+29				20'
4154+52				20'
4154+43			20'	
4158+82				20'
4176+43				20'
4192+49				20'
4211+41				20'
4211+79			20'	
4213+00		35'		
4214+00		35'		
4215+00		35'		
4216+00		35'		
4217+00		30'		
4218+00		25'		
4219+00		10'		
4221+04				20'
4223+54				20'
4246+83				20'
4249+19			20'	
4266+72				20'
4270+37			20'	
4285+35				20'
4293+86				20'
4294+99				20'
4299+80			20'	
4334+70				20'
4345+22				20'
4372+14				20'
4382+54				20'
4382+56			20'	
4389+55				20'
4389+60			20'	
4411+05			20'	
4411+09				20'
4415+83			20'	
4427+88				20'
4432+23			20'	
4441+19			20'	
4442+40			20'	
4442+41				20'
4443+88				20'
Totals	**520'**	**4970'**	**880'**	**1840'**

Station	Silt Fence Supported Lineal Feet		Silt Curtain Flotation Lineal Feet	
	LT	RT	LT	RT
3154+59		80'		
3186+23		60'		
3197+19	20'			
3204+48	60'			
3206+51	120'			
3221+77	100'			
3226+62	60'			
3234+50	380'			
3239+40		90'		
3243+00	650'			
3255+25		170'		
3255+64	100'			
3280+52	20'			
3283+34	140'			
3295+92	100'			
3312+27	60'			
3314+55	80'			
3331+46	20'			
3351+50		560'		
3351+75	550'			
3364+50		600'		
3365+00	500'			
3379+21	40'			
3416+77	100'			
3433+00	160'			
3453+59	60'			
3453+75		135'		
3458+00		475'		
3458+50	440'			
3461+75	200'			
3463+50		220'		
3491+50	270'			
3504+50		990'		
3517+89		80'		
3524+50	200'			
3533+42	100'			
3544+00	260'			
3546+00		490'		
3553+50	170'			
3555+80			370'	
3558+50				
3559+50	160'			
3574+00		40'		
3577+25				640'
3577+50			935'	
3580+50		50'		
3582+50	90'			
3592+40				710'
3592+75			660'	
3596+75	160'			
3600+10	380'			
3606+00	175'			
3616+27	50'			
3616+56		80'		
3629+50		945'		
3633+75	110'			
3638+50		400'		
3647+15	315'			
3656+50		400'		
3680+01		60'		
3688+50		500'		
3705+94		120'		
3712+55		80'		

Station	Silt Fence Supported Lineal Feet		Silt Curtain Flotation Lineal Feet	
	LT	RT	LT	RT
3719+60		130'		
3726+00	1060'			
3726+00		1040'		
3733+30		500'		
3734+25	670'			
3738+42	60'			
3760+40	140'			
3767+00		530'		
3769+46	80'			
3784+50	600'			
3804+93	140'			
3828+25		210'		
3828+50	300'			
3843+60	340'			
3843+80		500'		
3849+25		290'		
3859+55	360'			
3866+40	150'			
3866+80		145'		
3893+90	430'			
3896+10		280'		
3916+02	80'			
3924+00		350'		
3928+25	910'			
3929+20		600'		
3939+25	930'			
3947+00	665'			
3958+25	1630'			
3959+90		1530'		
3969+00	140'			
3970+40		150'		
4046+39	40'			
4088+60	100'			
4091+00	340'			
4097+75	330'			
4104+00	450'			
4104+50		250'		
4110+50	40'			
4114+50	760'			
4114+50		380'		
4124+00		1240'		
4130+10	25'			
4149+00	520'			
4158+00		500'		
4162+35	1210'			
4173+50	200'			
4180+00		100'		
4183+25	680'			
4195+50	450'			
4196+00		160'		
4202+50	420'			
4218+00	800'			
4226+50	810'			
4229+70		160'		
4235+00		900'		
4237+00	460'			
4242+50	600'			
4262+15	40'			
4275+50		1200'		
4293+75	280'			
4297+00	30'			
4347+50	300'			
4351+00		260'		

Station	Silt Fence Supported Lineal Feet		Silt Curtain Flotation Lineal Feet	
	LT	RT	LT	RT
4355+00			980'	
4357+50				1270'
4364+15	860'			
4366+50		430'		
4414+75	580'			
4415+90		310'		
Totals	**25,410**	**18,770**	**2,945**	**2,620**

FIBER ROLL 12IN
Plan Quantity = 8,210 LF
Engineer's Discretion = 1,000 LF
Total = 9,210 LF

REMOVAL FIBER ROLL 12IN
Plan Quantity = 8,210 LF
Engineer's Discretion = 1,000 LF
Total = 9,210 LF

SILT FENCE SUPPORTED
Plan Quantity = 44,180 LF
Engineer's Discretion = 2,000 LF
Total = 46,180 LF

REMOVAL SILT FENCE SUPPORTED
Plan Quantity = 44,180 LF
Engineer's Discretion = 2,000 LF
Total = 46,180 LF

FLOTATION SILT CURTAIN
Plan Quantity = 5,565 LF
Engineer's Discretion = 200 LF
Total = 5,765 LF

FLOTATION SILT CURTAIN
Plan Quantity = 5,565 LF
Engineer's Discretion = 200 LF
Total = 5,765 LF

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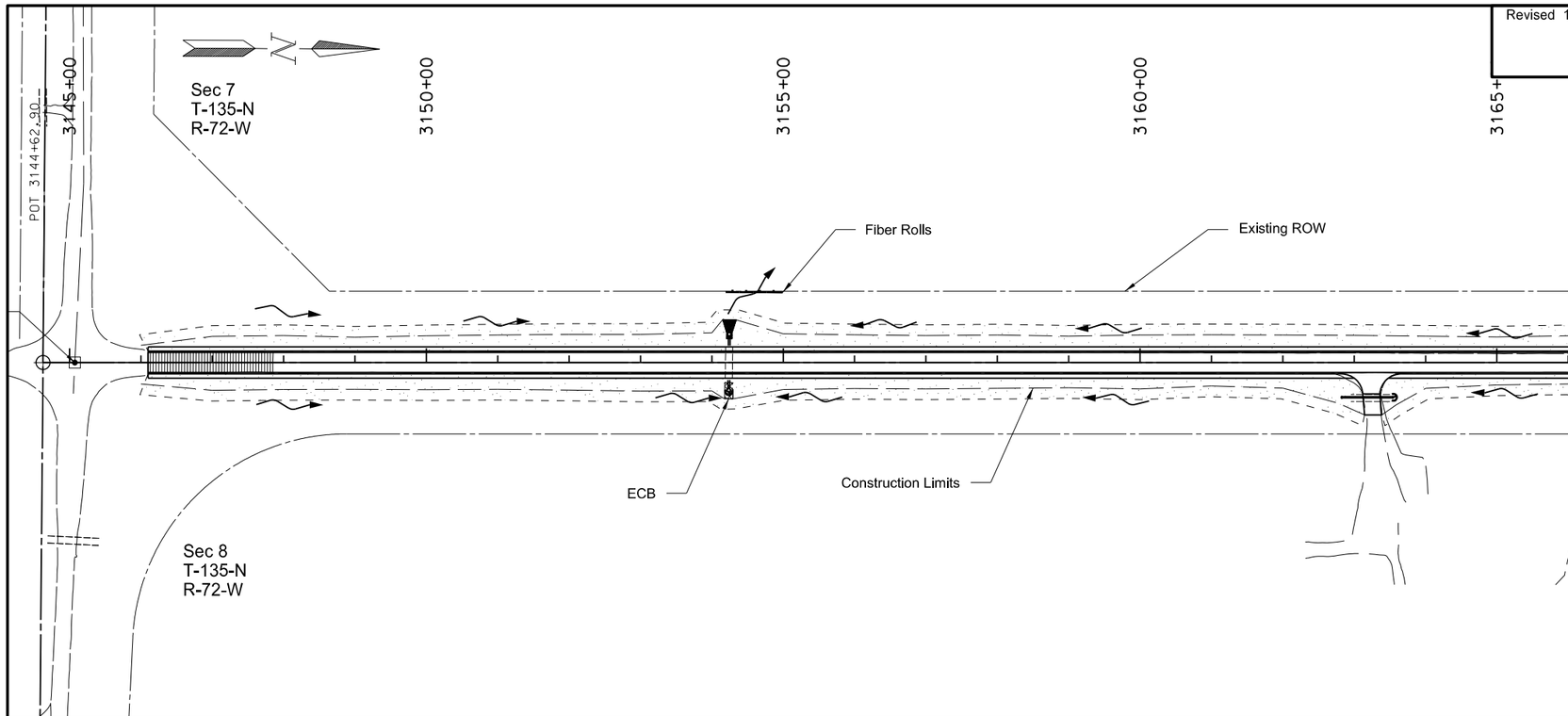
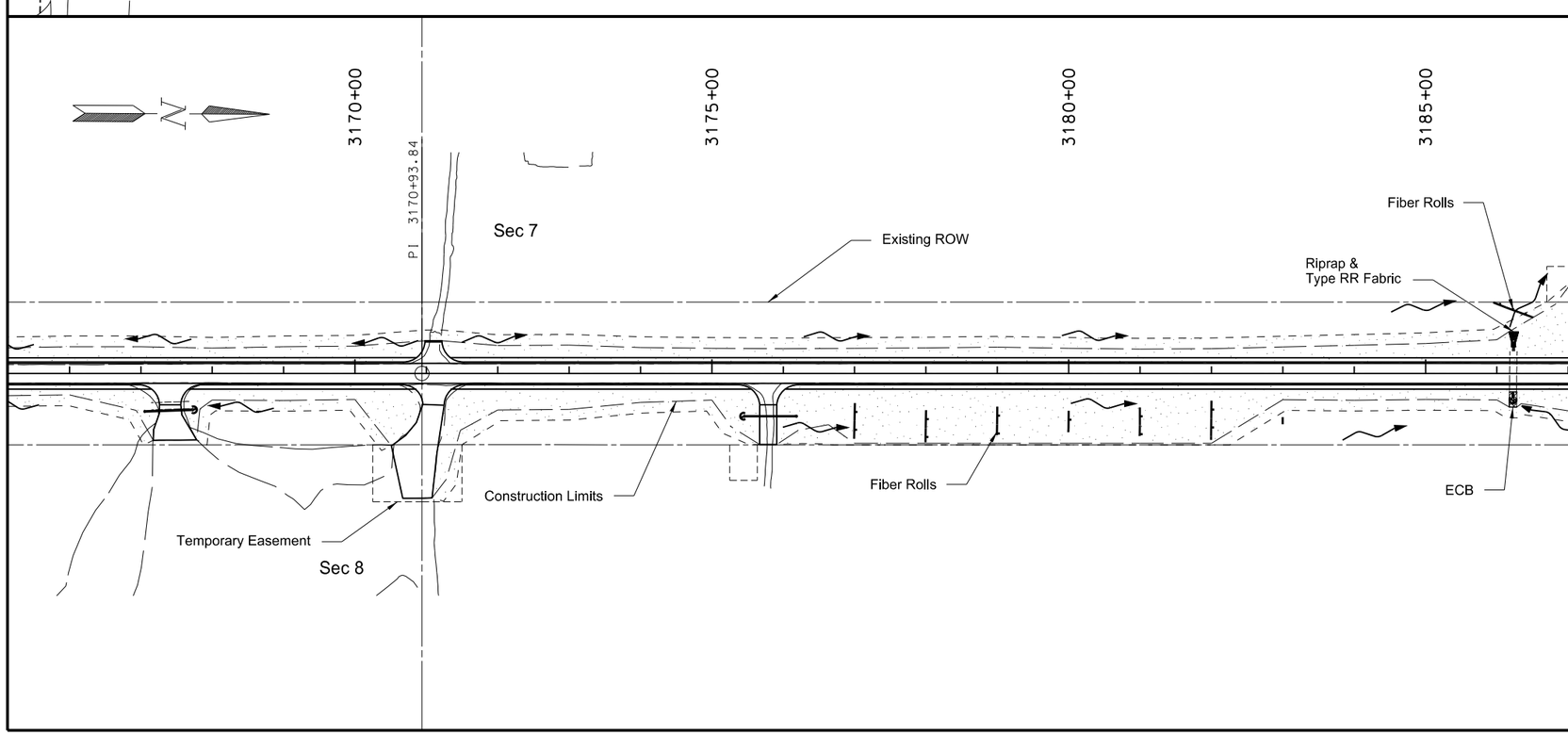
Temporary Sediment and Erosion Control Summary

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	1





SPEC	CODE	BID ITEM	QUANTITY	UNIT
255	0103	ECB TYPE 3		
		3154+24 RT	27	SY
		3186+23 RT	24	SY
256	0200	RIPRAP GRADE II		
		3154+24 LT	48	CY
		3186+23 LT	19	CY
261	0112	FIBER ROLLS 12IN		
		3154+25 RT	20	LF
		3163+64 RT	20	LF
		3167+89 RT	20	LF
		3175+44 RT	20	LF
		3177+00 RT	50	LF
		3178+00 RT	45	LF
		3179+00 RT	40	LF
		3180+00 RT	30	LF
		3181+00 RT	40	LF
		3182+00 RT	55	LF
		3183+00 RT	10	LF
		3186+23 RT	20	LF
261	0120	FIBER ROLLS 20IN		
		3154+59 RT	80	LF
		3186+23 RT	60	LF
709	0155	GEOSYNTHETIC MATERIAL TYPE RR		
		3154+24 LT	63	SY
		3186+23 LT	32	SY

Fiber Rolls

Concrete Erosion Control Blanket

ECB Type 3

Riprap

Permanent Seeding & Permanent Mulch

Wetland Mitigation

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Permanent Sediment and Erosion Control

ND 3

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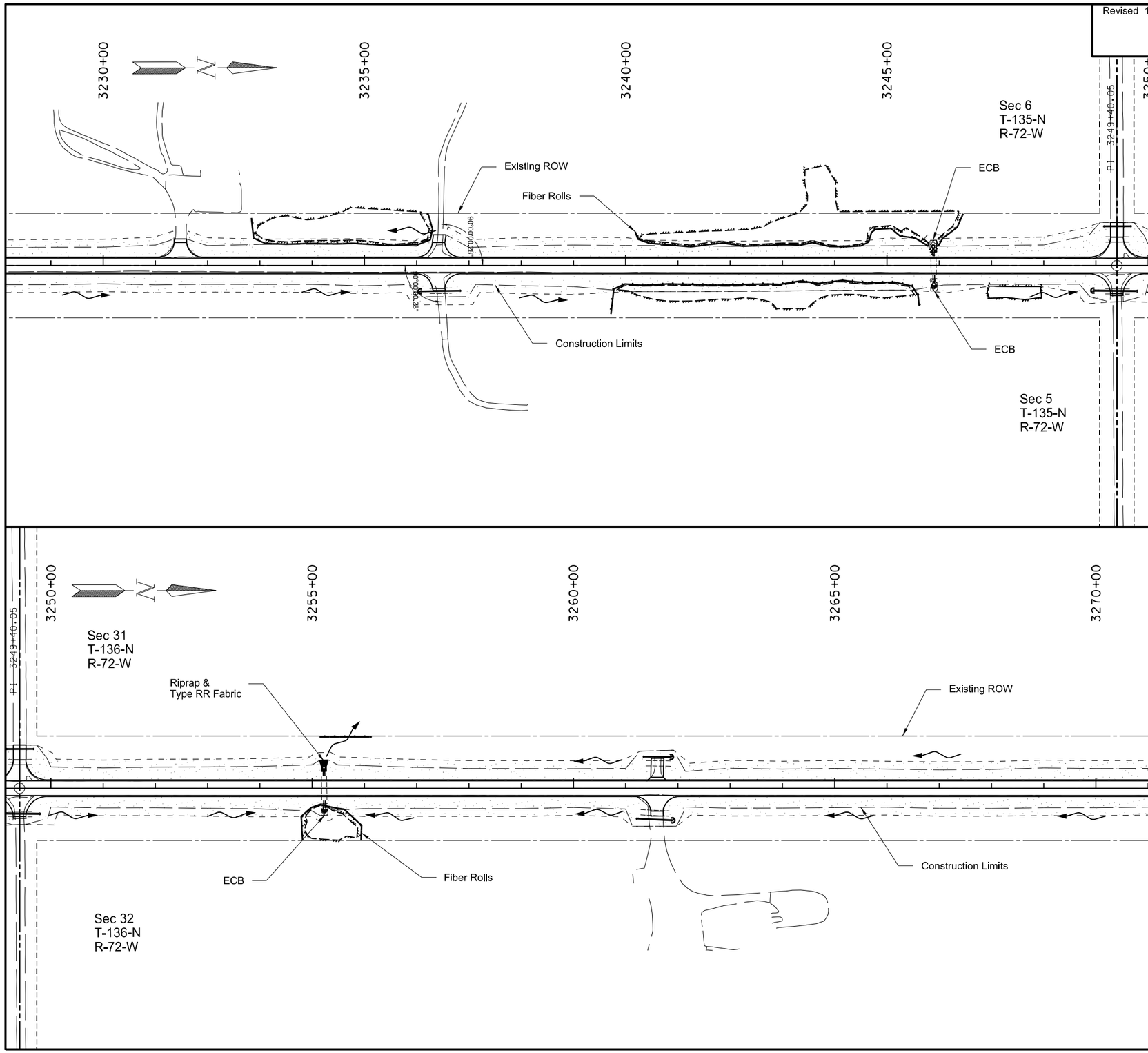
	ND	NH-RSS-1-003(034)059	77	3



SPEC	CODE	BID ITEM	QUANTITY	UNIT
255	0103	ECB TYPE 3		
		3245+89 RT	30	SY
		3245+89 LT	30	SY
		3255+23 RT	30	SY
256	0200	RIPRAP GRADE II		
		3255+23 LT	20	CY
261	0112	FIBER ROLLS 12IN		
		3236+04 RT	20	LF
		3245+90 RT	20	LF
		3248+88 RT	20	LF
		3255+23 RT	20	LF
		3261+96 LT	20	LF
		3262+01 RT	20	LF
261	0120	FIBER ROLLS 20IN		
		3232+50 LT	430	LF
		3242+65 RT	660	LF
		3243+00 LT	680	LF
		3255+40 RT	210	LF
		3255+60 LT	100	LF
709	0155	GEOSYNTHETIC MATERIAL TYPE RR		
		3255+23 LT	42	SY

Fiber Rolls

Concrete Erosion Control Blanket

ECB Type 3

Riprap

Permanent Seeding & Permanent Mulch

Wetland Mitigation

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Permanent Sediment and Erosion Control

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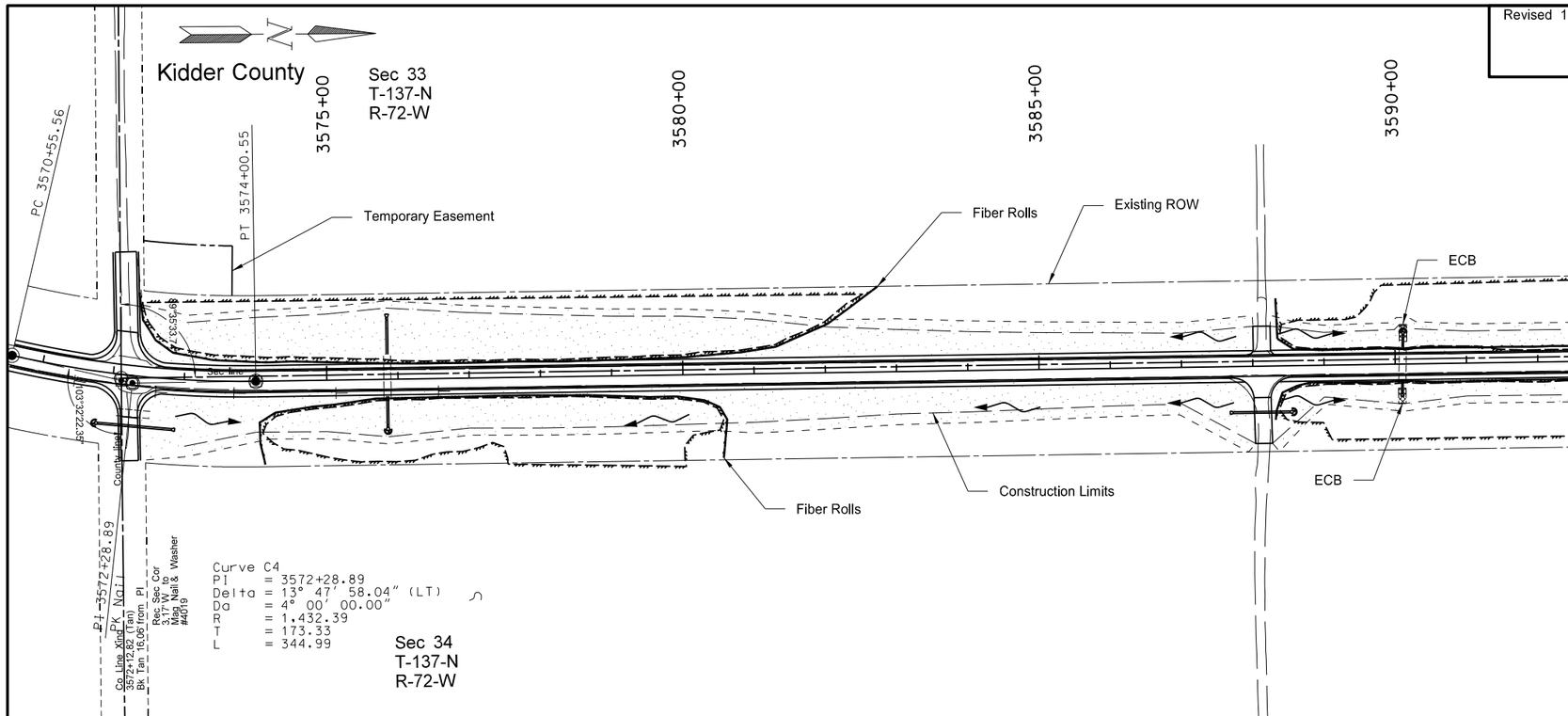
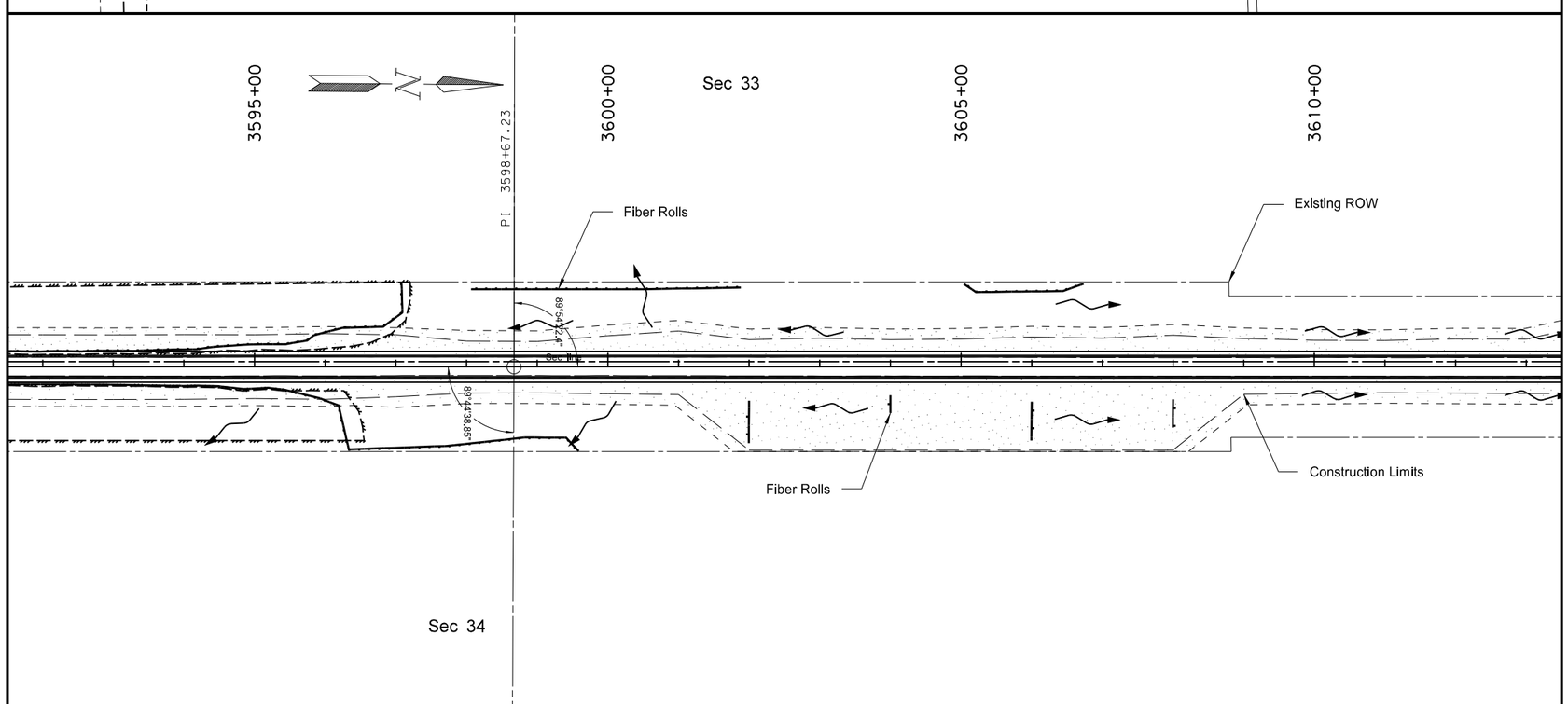
	ND	NH-RSS-1-003(034)059	77	12





SPEC	CODE	BID ITEM	QUANTITY	UNIT
255	0103	ECB TYPE 3		
		3590+10 RT	24	SY
		3590+10 LT	24	SY
261	0112	FIBER ROLLS 12IN		
		3571+90 RT	20	LF
		3575+85 RT	20	LF
		3588+40 RT	20	LF
		3590+10 LT	20	LF
		3602+00 RT	60	LF
		3604+00 RT	25	LF
		3606+00 RT	55	LF
		3608+00 RT	40	LF
261	0120	FIBER ROLLS 20IN		
		3577+25 RT	780	LF
		3577+50 LT	1120	LF
		3592+75 LT	990	LF
		3594+00 RT	1220	LF
		3600+10 LT	380	LF
		3606+00 LT	175	LF

- Fiber Rolls
- Concrete Erosion Control Blanket
- ECB Type 3
- Riprap
- Permanent Seeding & Permanent Mulch
- Wetland Mitigation

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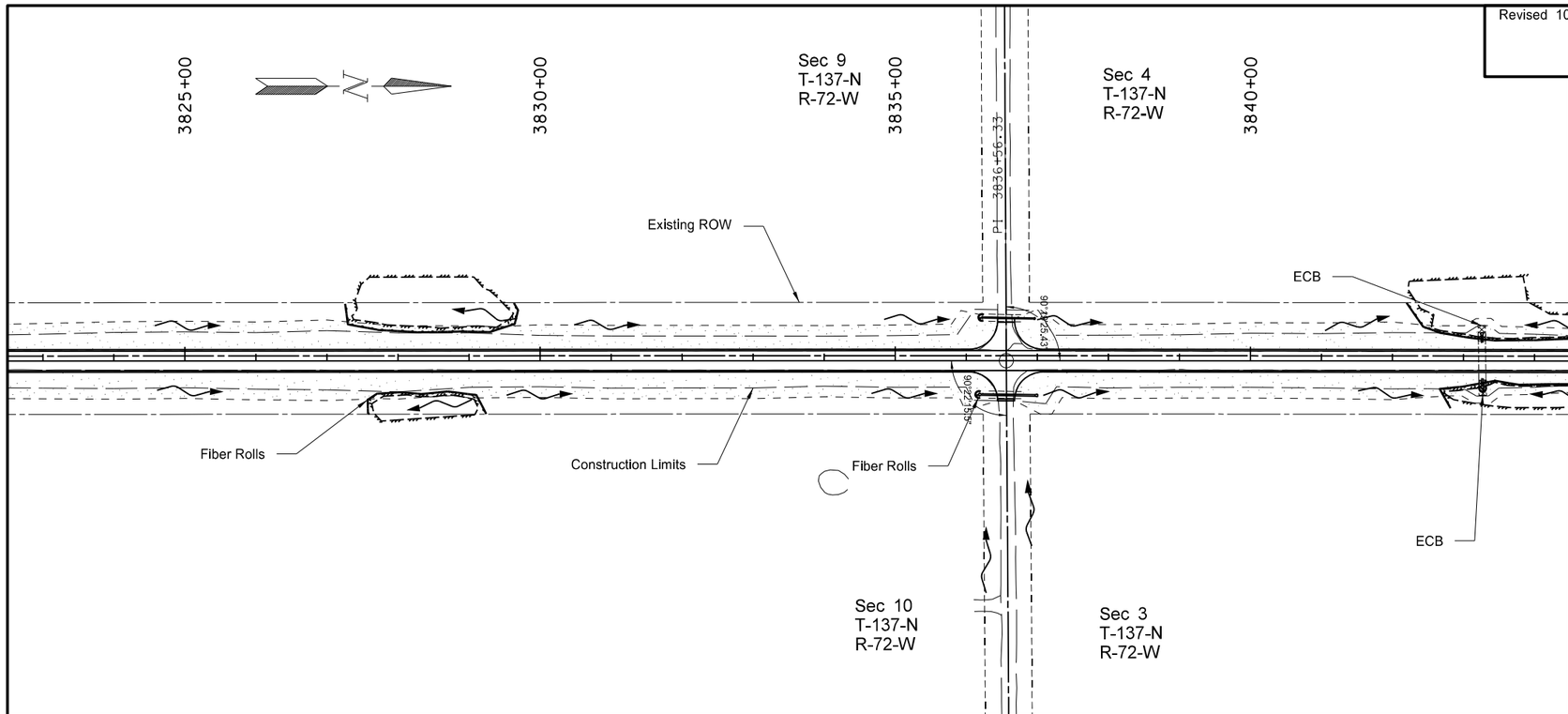
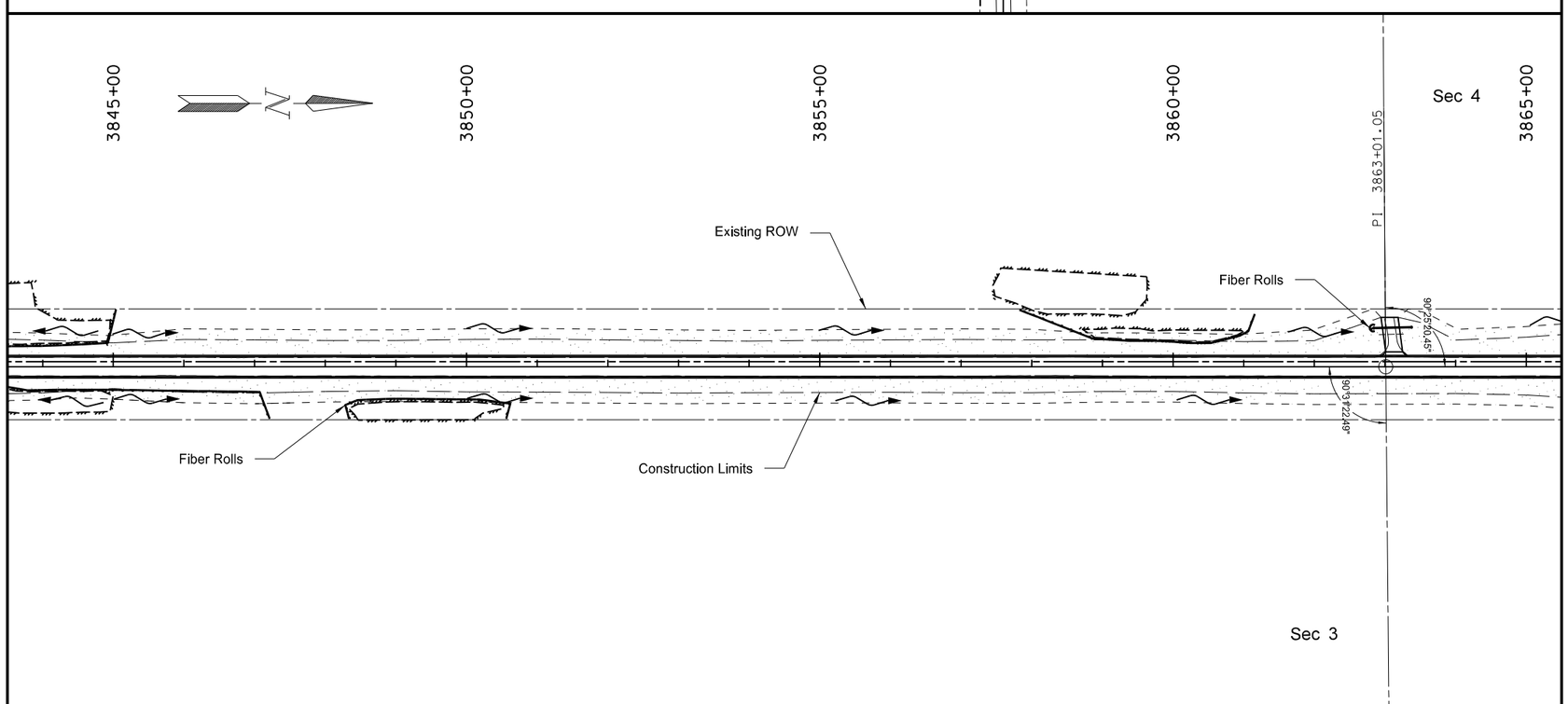
Permanent Sediment and Erosion Control

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	18





SPEC	CODE	BID ITEM	QUANTITY	UNIT
255	0103	ECB TYPE 3		
		3843+26 RT	24	SY
		3843+26 LT	24	SY
261	0112	FIBER ROLLS 12IN		
		3836+06 LT	20	LF
		3836+10 RT	20	LF
		3843+27 RT	20	LF
		3862+83 LT	20	LF
261	0120	FIBER ROLLS 20IN		
		3828+25 RT	210	LF
		3828+50 LT	300	LF
		3843+60 LT	340	LF
		3843+80 RT	520	LF
		3849+25 RT	280	LF
		3859+55 LT	360	LF

Fiber Rolls

Concrete Erosion Control Blanket

ECB Type 3

Riprap

Permanent Seeding & Permanent Mulch

Wetland Mitigation

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Permanent Sediment and Erosion Control

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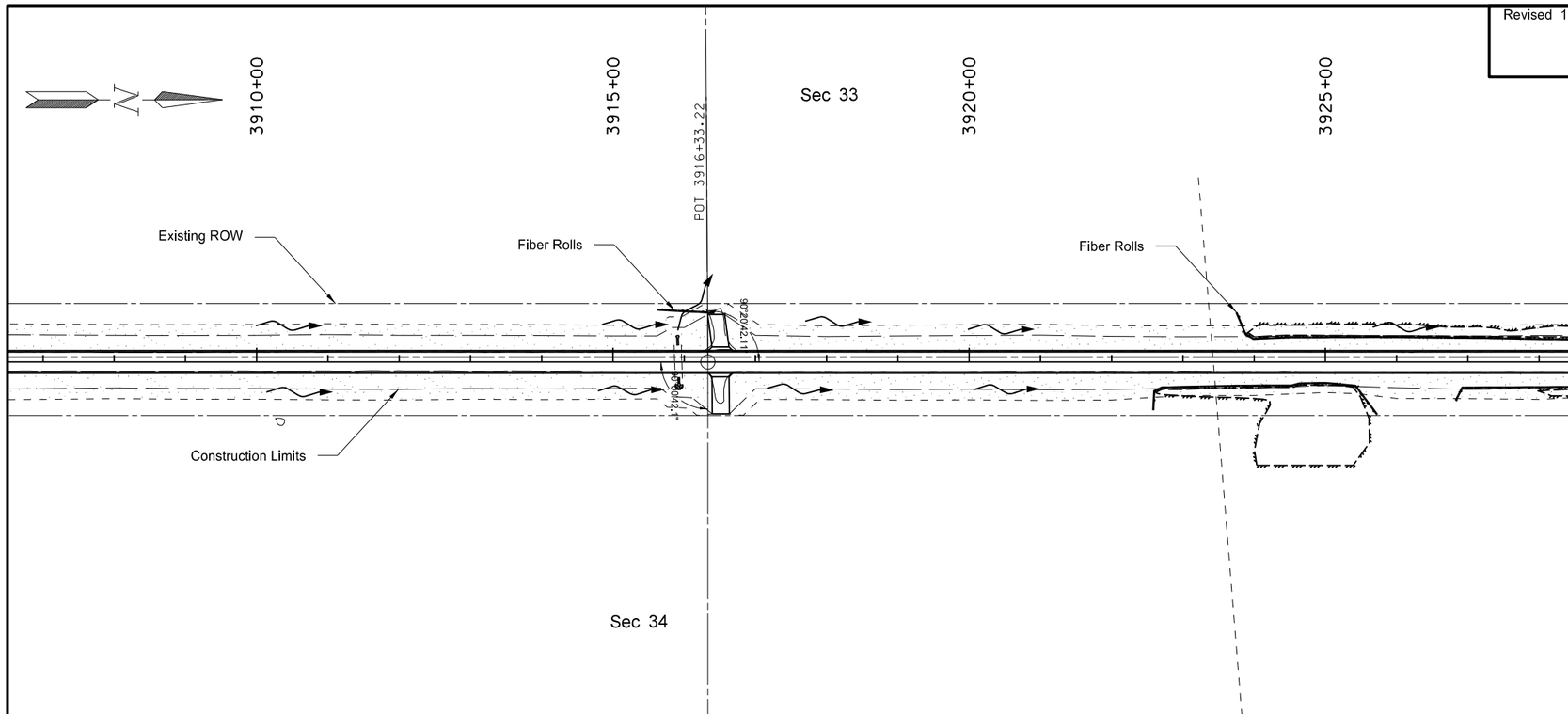
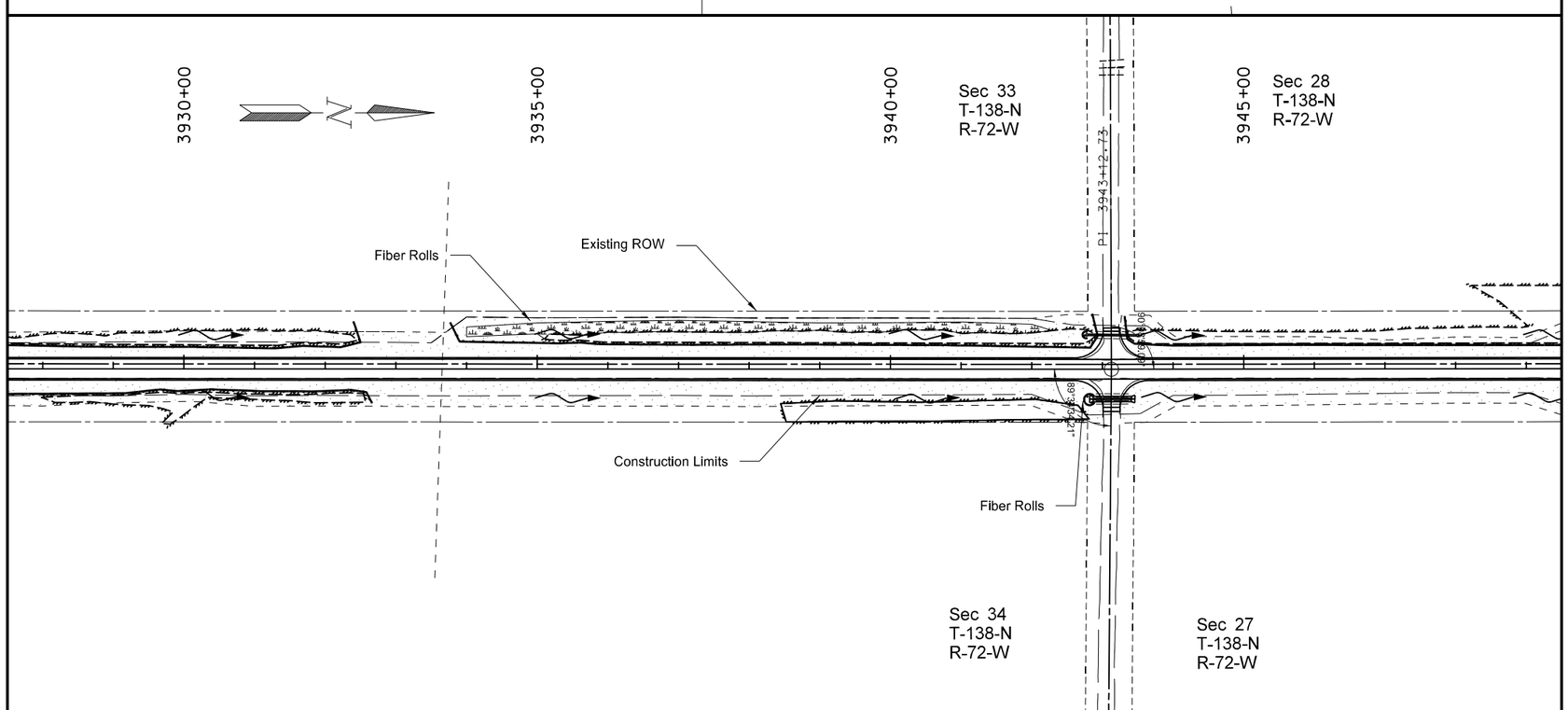
Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	20





SPEC	CODE	BID ITEM	QUANTITY	UNIT
261	0112	FIBER ROLLS 12IN		
		3915+93 RT	20	LF
		3942+68 LT	20	LF
		3942+74 RT	40	LF
261	0120	FIBER ROLLS 20IN		
		3916+02 LT	80	LF
		3924+00 RT	360	LF
		3928+25 LT	930	LF
		3930+25 RT	605	LF
		3939+25 LT	980	LF
		3947+00 LT	710	LF

Fiber Rolls

Concrete Erosion Control Blanket

ECB Type 3

Riprap

Permanent Seeding & Permanent Mulch

Wetland Mitigation

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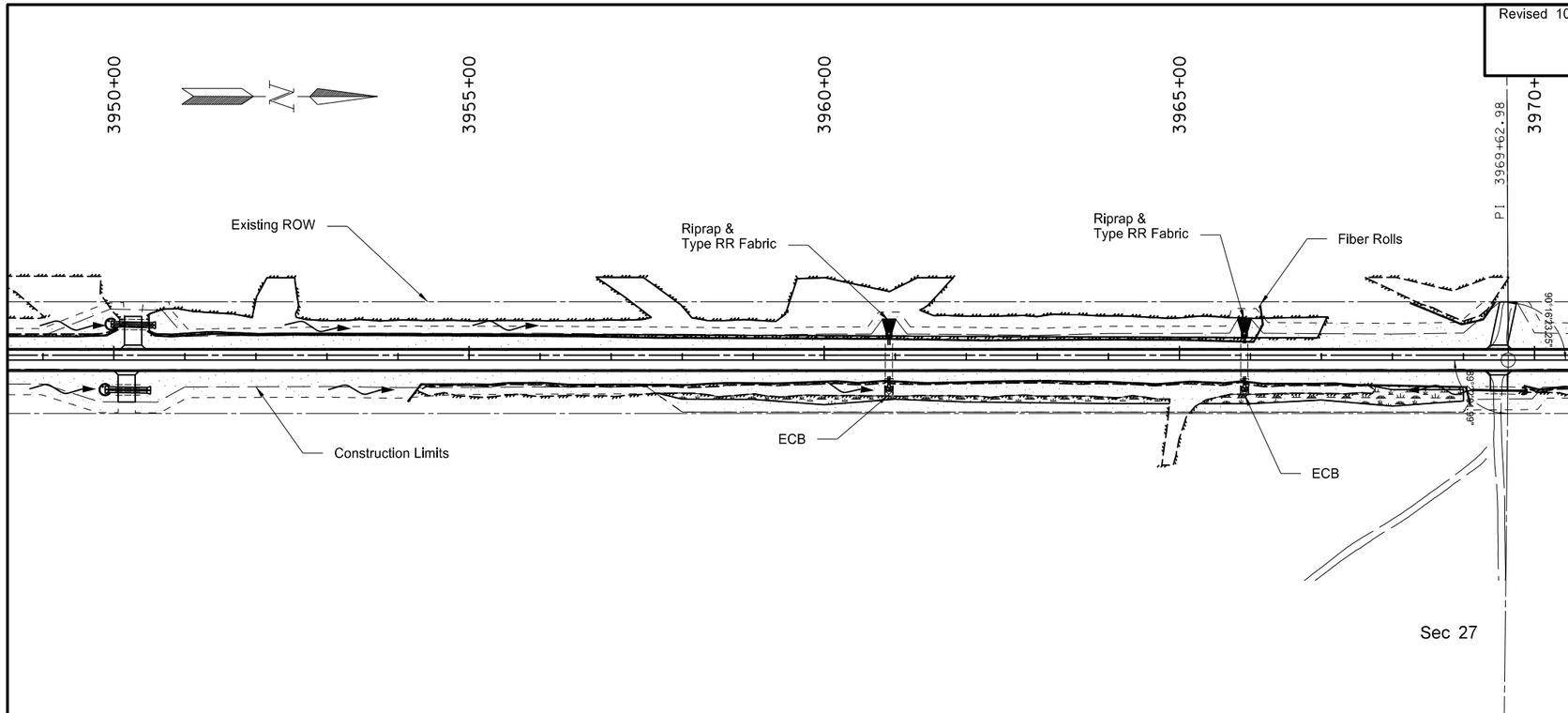
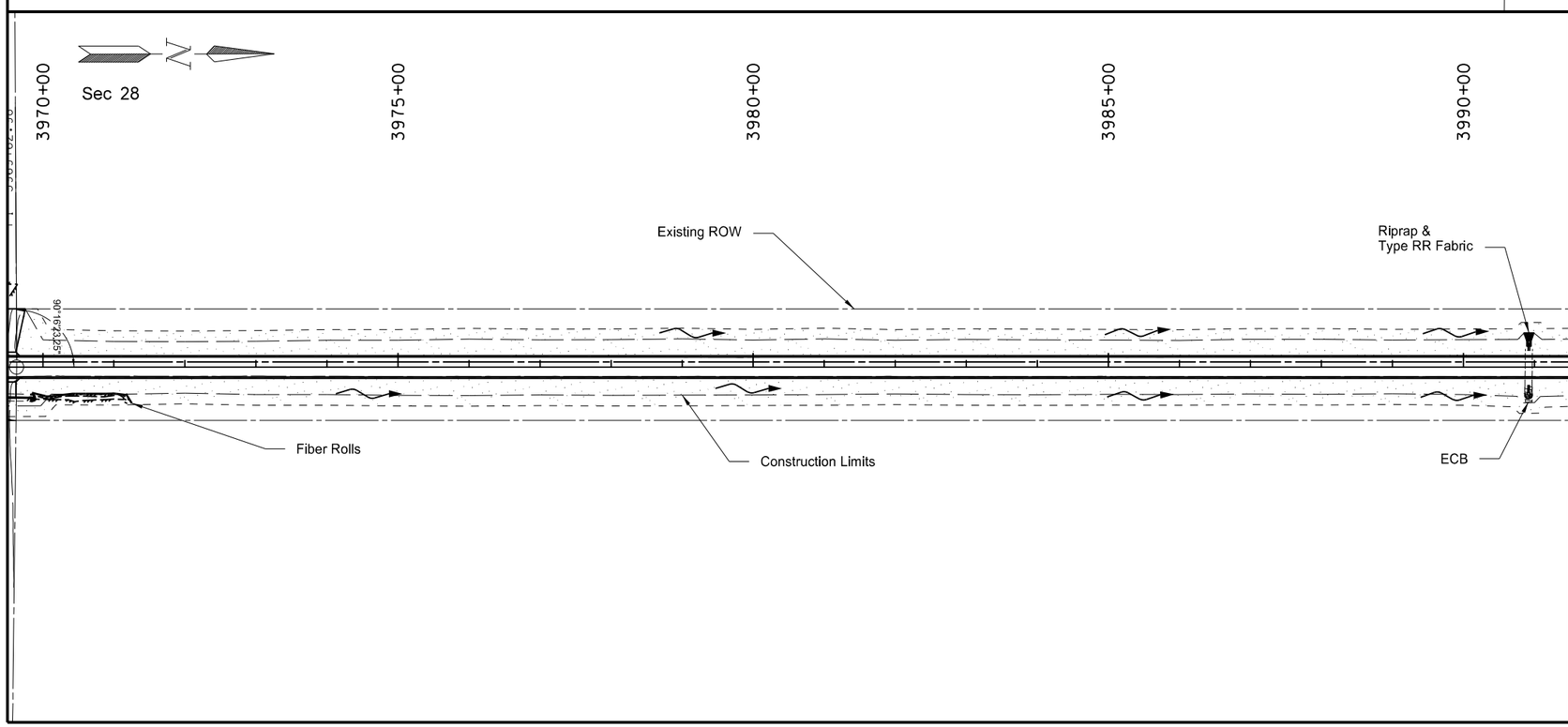
Permanent Sediment and Erosion Control

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	21





SPEC	CODE	BID ITEM	QUANTITY	UNIT
255	0103	ECB TYPE 3		
		3960+91 RT	27	SY
		3965+92 RT	27	SY
		3990+92 RT	27	SY
256	0200	RIPRAP GRADE II		
		3960+91 LT	48	CY
		3965+92 LT	48	CY
		3990+92 LT	19	CY
261	0112	FIBER ROLLS 12IN		
		3949+90 RT	40	LF
		3949+93 LT	40	LF
		3960+91 RT	20	LF
		3965+92 RT	20	LF
		3969+93 RT	20	LF
		3990+91 RT	20	LF
261	0120	FIBER ROLLS 20IN		
		3958+25 LT	1,620	LF
		3959+90 RT	1,530	LF
		3969+00 LT	140	LF
		3970+40 RT	150	LF
709	0155	GEOSYNTHETIC MATERIAL TYPE RR		
		3960+91 LT	63	SY
		3965+92 LT	63	SY
		3990+92 LT	32	SY

Fiber Rolls

Concrete Erosion Control Blanket

ECB Type 3

Riprap

Permanent Seeding & Permanent Mulch

Wetland Mitigation

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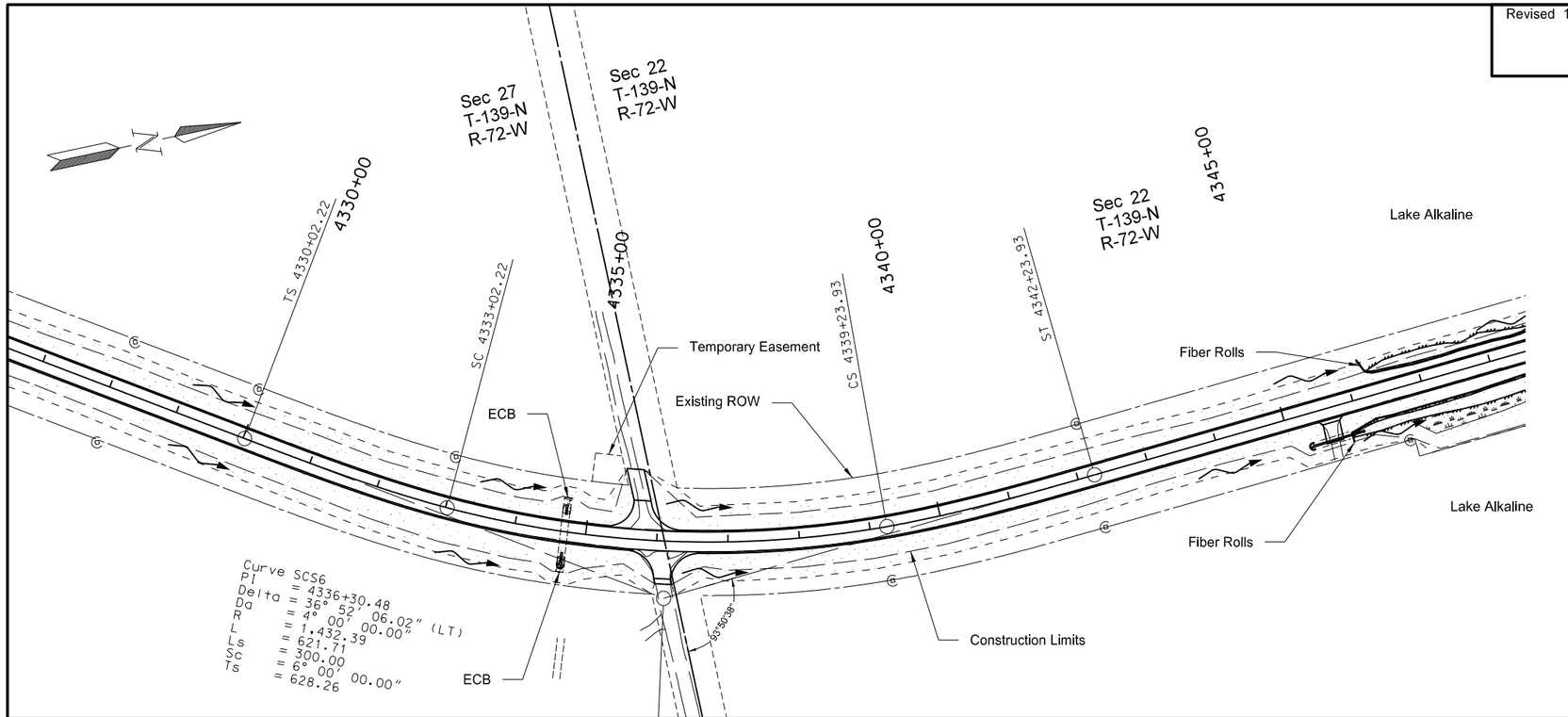
Permanent Sediment and Erosion Control

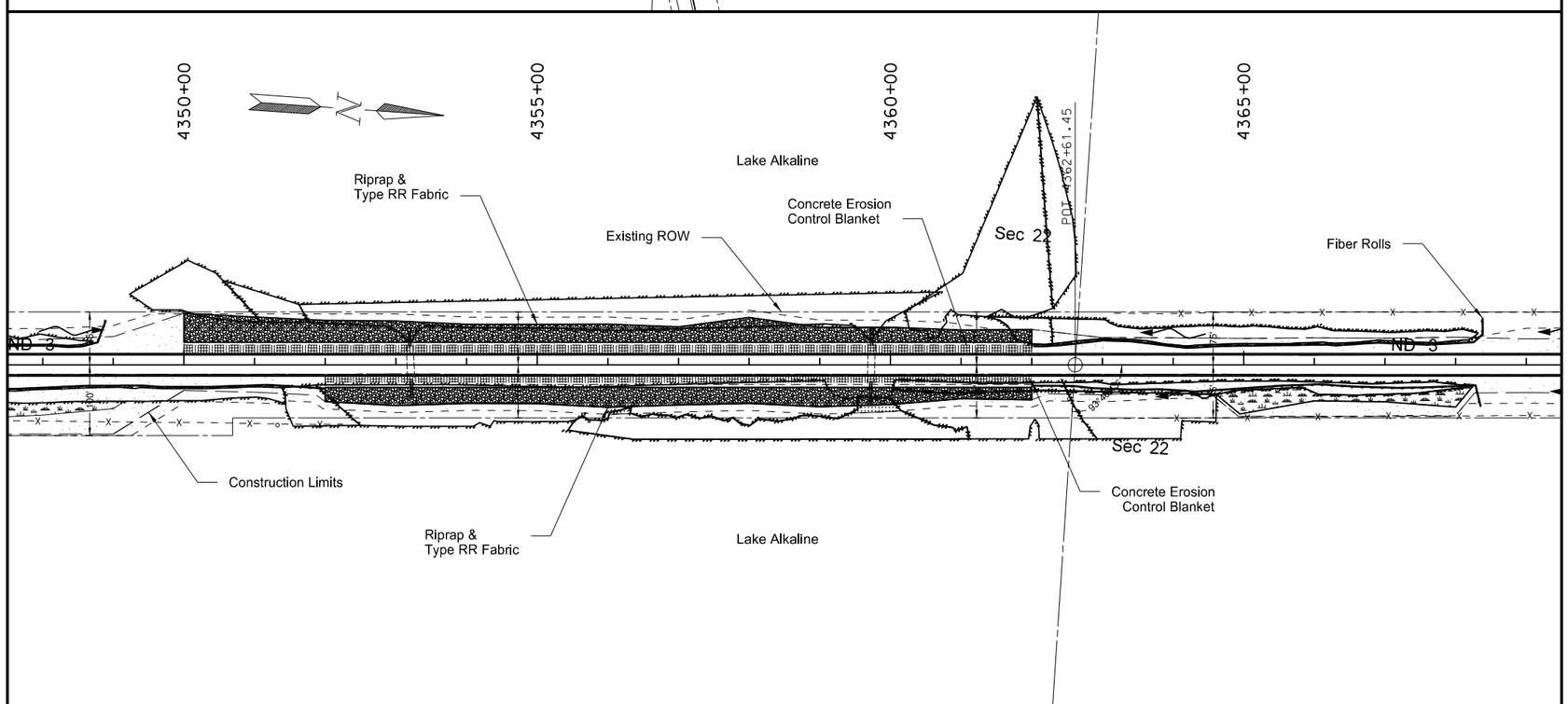
ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	30



SPEC	CODE	BID ITEM	QUANTITY	UNIT
255	0103	ECB TYPE 3		
		4334+70 RT	24	SY
		4334+70 LT	24	SY
255	0300	CONCRETE EROSION CONTROL BLANKET		
		4350+00 to 4362+00 LT	2,133	SY
		4352+00 to 4362+00 RT	1,778	SY
256	0200	RIPRAP GRADE II		
		4350+00 to 4362+00 LT	2,372	CY
		4352+00 to 4362+00 RT	1,724	CY
261	0112	FIBER ROLLS 12IN		
		4334+70 RT	20	LF
		4345+22 RT	20	LF
261	0120	FIBER ROLLS 20IN		
		4347+50 LT	310	LF
		4349+00 RT	630	LF
		4364+90 RT	660	LF
		4365+20 LT	670	LF
709	0155	GEOSYNTHETIC MATERIAL TYPE RR		
		4350+00 to 4362+00 LT	6,113	SY
		4352+00 to 4362+00 LT	5,142	SY



- Fiber Rolls
- Concrete Erosion Control Blanket
- ECB Type 3
- Riprap
- Permanent Seeding & Permanent Mulch
- Wetland Mitigation

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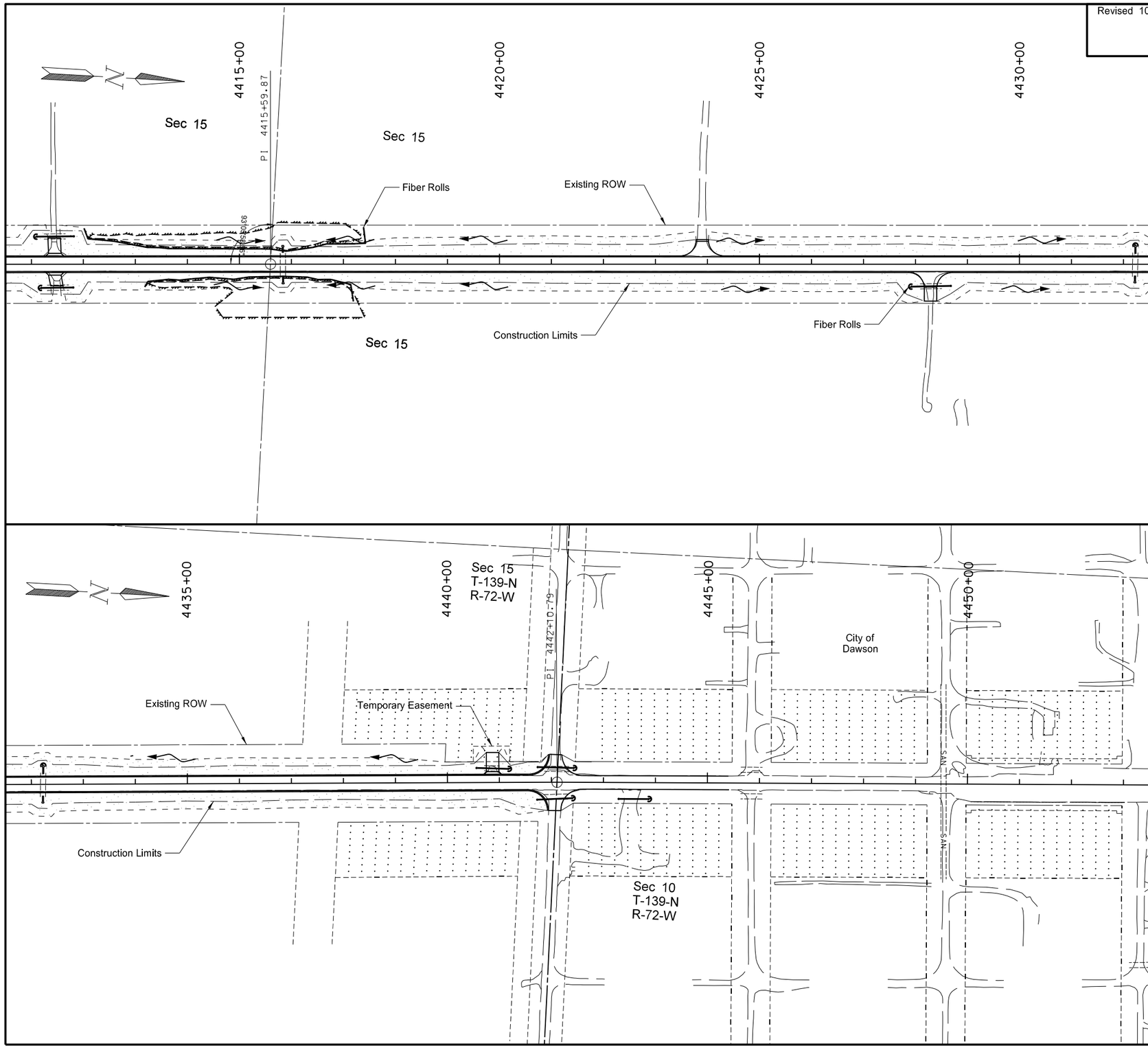
Permanent Sediment and Erosion Control

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	32



SPEC	CODE	BID ITEM	QUANTITY	UNIT
251	0100	SEEDING CLASS I		
		4442+10 to 4484+40	1	ACRE
251	0200	SEEDING CLASS II		
		3146+10 to 4442+10	238	ACRE
251	1000	WETLAND SEED		
		3232+92 to 4467+18	10	ACRE
253	0101	STRAW MULCH		
		3146+10 to 4484+40	249	ACRE
261	0112	FIBER ROLL 12IN		
		4427+88 RT	20	LF
		4432+23 LT	20	LF
		4441+19 LT	20	LF
		4442+40 LT	20	LF
		4442+41 RT	20	LF
		4443+88 RT	20	LF
261	0120	FIBER ROLL 20IN		
		4414+75 LT	590	LF
		4415+00 RT	440	LF

Fiber Rolls

Concrete Erosion Control Blanket

ECB Type 3

Riprap

Permanent Seeding & Permanent Mulch

Wetland Mitigation

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Permanent Sediment and Erosion Control

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	33

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet		20 IN Fiber Rolls Ditch Bottom Lineal Feet	
	LT	RT	LT	RT	LT	RT
3154+25				20'		
3154+59					80'	
3163+64				20'		
3167+89				20'		
3175+44				20'		
3177+00		50'				
3178+00		45'				
3179+00		40'				
3180+00		30'				
3181+00		40'				
3182+00		55'				
3183+00		10'				
3186+23				20'		
3186+23					60'	
3197+04				20'		
3197+19					20'	
3204+48				20'		
3204+48					60'	
3206+51					120'	
3212+54			20'			
3221+77					100'	
3226+54				20'		
3226+62					60'	
3232+50					430'	
3236+04				20'		
3242+65						660'
3243+00					680'	
3245+90				20'		
3248+88				20'		
3255+23				20'		
3255+40						210'
3255+60					100'	
3261+96			20'			
3262+01				20'		
3280+52					20'	
3283+34					140'	
3283+56				20'		
3286+00		50'				
3288+00		35'				
3290+00		35'				
3292+00		45'				
3294+00		40'				
3295+00		55'				
3295+56				20'		
3295+92					100'	
3312+27					60'	
3314+55					80'	
3314+60				20'		
3319+00	20'					
3320+00	45'					
3321+00	40'					
3322+00	45'					
3323+00	45'					
3324+00	45'					
3325+00	35'					
3326+00	40'					
3327+00	15'					
3331+46					20'	
3331+58				20'		
3351+50						600'
3351+75					550'	
3355+21			20'			
3355+21				20'		

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet		20 IN Fiber Rolls Ditch Bottom Lineal Feet	
	LT	RT	LT	RT	LT	RT
3364+50						600'
3365+00					500'	
3379+21					40'	
3381+84			20'			
3381+85				20'		
3391+00	15'					
3392+00	55'					
3392+50	80'					
3393+00	100'					
3393+50	100'					
3394+00	100'					
3394+50	100'					
3395+00	100'					
3396+00	15'					
3401+00		55'				
3401+50		40'				
3402+00		25'				
3402+50		20'				
3403+00		20'				
3403+40		35'				
3403+80		55'				
3404+20		65'				
3404+60		75'				
3405+00		90'				
3407+72				20'		
3410+00		45'				
3410+50		40'				
3411+00		35'				
3411+50		35'				
3412+15		35'				
3412+80		40'				
3413+45		45'				
3414+00		50'				
3416+77					100'	
3416+86				20'		
3428+79				20'		
3433+00					160'	
3434+50			20'			
3434+87				20'		
3453+75						220'
3453+59					60'	
3454+59				20'		
3454+67			20'			
3458+50						600'
3458+50					480'	
3461+25				20'		
3461+50					245'	
3463+50						220'
3480+00		20'				
3480+30		30'				
3480+70		40'				
3481+10		45'				
3481+50		40'				
3481+90		35'				
3482+30		40'				
3482+70		45'				
3483+10		50'				
3483+50		60'				
3484+00		70'				
3485+00		65'				
3486+00		80'				
3491+50					270'	
3493+00	55'					

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet		20 IN Fiber Rolls Ditch Bottom Lineal Feet	
	LT	RT	LT	RT	LT	RT
3494+00	40'					
3495+00	35'					
3496+00	45'					
3497+00	15'					
3500+17			20'			
3504+00						990'
3513+97				20'		
3513+99			20'			
3517+89						80'
3524+50					200'	
3529+76				20'		
3533+42					100'	
3534+09				20'		
3538+00		35'				
3539+00		55'				
3540+00		75'				
3541+00		55'				
3542+00		65'				
3543+00		75'				
3543+80					260'	
3546+25						490'
3556+50					725'	
3557+26				20'		
3559+50					170'	
3571+90				20'		
3575+85				20'		
3577+25						780'
3577+50					1120'	
3588+40				20'		
3590+10			20'			
3592+75					990'	
3594+00						1220'
3600+10					380'	
3602+00		60'				
3604+00		25'				
3606+00		55'				
3606+00					175'	
3608+00		40'				
3613+91			20'			
3616+27					60'	
3616+56						80'
3616+90			20'			
3625+72			20'			
3629+75						945'
3633+65					110'	
3638+50						400'
3639+52			20'			
3644+00		70'				
3645+00		50'				
3646+00		75'				
3647+00					315'	
3648+00		60'				
3656+50						400'
3673+45			20'			
3677+52			20'			
3677+73				20'		
3680+01						60'
3680+10			20'			
3688+50						500'
3695+26				20'		
3705+16			20'			
3705+94						120'
3707+95			20'			

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet		20 IN Fiber Rolls Ditch Bottom Lineal Feet	
	LT	RT	LT	RT	LT	RT
3708+00		75'				
3709+00		60'				
3709+80		55'				
3710+20		50'				
3710+60		45'				
3711+00		45'				
3711+28			20'			
3712+55						80'
3714+00		55'				
3714+50		40'				
3715+00		20'				
3715+50		20'				
3716+00		25'				
3717+00		55'				
3717+99				20'		
3718+67			20'			
3719+60						140'
3726+00					1100'	
3726+00						1050'
3733+30						500'
3734+25					690'	
3738+42					60'	
3745+00		90'				
3745+50		90'				
3746+00		85'				
3747+00		85'				
3749+00		55'				
3750+00		60'				
3751+00		90'				
3757+28				20'		
3760+27				20'		
3760+43					140'	
3767+00						600'
3768+92				20'		
3769+46					80'	
3775+00		55'				
3776+00		30'				
3777+00		35'				
3779+00		70'				
3782+00		65'				
3784+22				20'		
3784+50					600'	
3791+42				20'		
3795+26				20'		
3795+33			20'			
3804+85				20'		
3804+93					140'	
3810+55				20'		
3828+25						210'
3828+50					300'	
3836+06			20'			
3836+10				20'		
3843+27				20'		
3843+60					340'	
3843+80						520'
3849+25						280'
3859+55					360'	
3862+83			20'			
3866+15				20'		
3866+40					150'	
3866+80						150'
3883+91				20'		
3889+08				20'		

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet		20 IN Fiber Rolls Ditch Bottom Lineal Feet	
	LT	RT	LT	RT	LT	RT
3889+13			20'			
3893+90						430'
3896+10					280'	
3896+45				20'		
3915+93				20'		
3916+02					80'	
3924+00						360'
3928+25					930'	
3930+25						605'
3939+25					980'	
3942+68			20'			
3942+74				40'		
3947+00					710'	
3949+90				40'		
3949+93			40'			
3958+25					1620'	
3959+90						1530'
3960+91				20'		
3965+92				20'		
3969+00					140'	
3969+93				20'		
3970+40						150'
3990+91				20'		
3996+54				20'		
3996+54			20'			
4022+01			20'			
4027+93				20'		
4040+47				20'		
4041+58			20'			
4042+92				20'		
4046+39					40'	
4054+06			20'			
4077+47				20'		
4088+58					100'	
4088+92				20'		
4091+00					350'	
4097+75					320'	
4100+48				20'		
4100+49			20'			
4103+97				20'		
4104+00					430'	
4104+50						250'
4110+50					40'	
4112+85				20'		
4114+50					750'	
4114+50						390'
4114+79				20'		
4124+00						1250'
4130+10					25'	
4130+29				20'		
4149+00					520'	
4148+78				20'		
4154+29				20'		
4154+43				20'		
4154+52			20'			
4158+00						530'
4158+82				20'		
4162+35					1210'	
4176+43				20'		
4173+50					200'	
4180+00						130'
4183+25					670'	
4192+49				20'		

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Permanent Sediment and Erosion Control Summary

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	77	34

Station	12 IN Fiber Rolls Ditch Bottom Lineal Feet		12 IN Fiber Rolls Pipe Lineal Feet		20 IN Fiber Rolls Ditch Bottom Lineal Feet	
	LT	RT	LT	RT	LT	RT
4195+50					450'	
4196+00						160'
4202+50					420'	
4211+41				20'		
4211+79			20'			
4213+00		35'				
4214+00		35'				
4215+00		35'				
4216+00		35'				
4217+00		30'				
4218+00		25'				
4218+00					800'	
4219+00		10'				
4221+04				20'		
4223+54				20'		
4226+50					800'	
4229+70						160'
4235+00						900'
4237+00					460'	
4239+65						35'
4242+50					600'	
4246+83				20'		
4249+19			20'			
4262+15					40'	
4266+72				20'		
4270+37			20'			
4275+50						1200'
4285+35				20'		
4293+77					270'	
4293+86				20'		
4294+99				20'		
4297+00					40'	
4299+80			20'			
4334+70				20'		
4345+22				20'		
4347+50					310'	
4349+00						630'
4364+90						660'
4365+20					670'	
4372+14				20'		
4382+54				20'		
4382+56			20'			
4389+55				20'		
4389+60			20'			
4411+05			20'			
4411+09				20'		
4414+75					590'	
4415+00						440'
4427+88				20'		
4432+23			20'			
4441+19			20'			
4442+40			20'			
4442+41				20'		
4443+88				20'		
Totals	**1,185**	**4,310**	**860**	**1,840**	**27,945**	**22,515**

FIBER ROLL 12IN

Plan Quantity =	8,195 LF
Engineer's Discretion =	1,000 LF
Total =	9,195 LF

FIBER ROLL 20IN

Plan Quantity =	50,460 LF
Engineer's Discretion =	3,000 LF
Total =	53,460 LF

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Permanent Sediment and Erosion Control Summary

ND 3

Jct 34 N to I-94 Dawson

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - Jct 34 N to I-94 Dawson

Revised 10/31/2014

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-RSS-1-003(034)059	81	1

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
ND 3 - SCL3-LOGAN			
Rec Sec Cor (Begin)	3144+62.90	310470.06	2152816.12
Intersection of ND 3 and ND 34			
ND 3	3145+07.39	310515.63	2152815.85
ND 34	397+88.33	310515.63	2152815.85
Rec ¼ Cor	3170+93.84	313100.96	2152802.55
Rec Sec Cor	3197+48.19	315755.27	2152789.09
Rec ¼ Cor	3223+53.63	318360.72	2152793.47
Rec Sec Cor	3249+40.05	320947.13	2152797.67
Rec ¼ Cor	3275+82.69	323589.77	2152801.80
Rec Sec Cor	3302+31.99	326239.06	2152806.97
Rec ¼ Cor	3328+79.28	328886.23	2152781.89
Rec Sec Cor	3354+87.70	331494.53	2152757.10
Rec ¼ Cor	3381+45.58	334152.30	2152732.25
Rec Sec Cor	3408+13.87	336820.47	2152707.08
Rec ¼ Cor	3434+35.06	339441.44	2152672.92
Rec Sec Cor	3460+75.36	342081.51	2152638.52
Rec ¼ Cor	3487+09.57	344715.58	2152611.19
PC	3495+36.53	345542.50	2152602.64
PI C1	3499+02.35	345908.30	2152598.85
PT	3502+67.17	346271.60	2152641.62
Sec Line	3513+52.16	347349.15	2152768.47
PC	3521+97.36	348188.55	2152867.28
PI C2	3526+94.48	348682.26	2152925.40
PT	3531+86.04	349174.41	2152855.21
PC	3539+59.23	349939.85	2152746.05
¼ Line	499.98' from PI BK TAN	349981.84	2152740.06
PI C3	3545+01.63	350476.82	2152669.47
PT	3550+31.34	351004.61	2152794.49
PC	3570+55.56	352974.33	2153261.04
Twp Line	16.04' from PI BK TAN	353127.39	2153297.30
PI C4	3572+28.89	353142.99	2153300.99
PT (End)	3574+00.54	353316.32	2153299.56

CURVE DATA

ARC DEFINITION

C1	C2
PI Sta = 3499+02.35	PI Sta = 3526+94.48
Delta = 7° 18′ 23″ RT	Delta = 14° 49′ 49″ LT
D_a = 1° 00′ 00″	D_a = 1° 30′ 00″
R = 5,729.58′	R = 3,819.72′
T = 365.82′	T = 497.12′
L = 730.64′	L = 988.69′
C3	C4
PI Sta = 3545+01.63	PI Sta = 3572+28.89
Delta = 21° 26′ 32″ RT	Delta = 13° 47′ 58″ LT
D_a = 2° 00′ 00″	D_a = 4° 00′ 00″
R = 2,864.79′	R = 1,432.39′
T = 542.40′	T = 173.33′
L = 1,072.11′	L = 344.98′

US PUBLIC LAND SURVEY DATA

DESC. SEC-TWP-RGE		NORTHING	EASTING
NE Cor Sec 18	T-135-N R-72-W	310470.06	2152816.12
E¼ Cor Sec 7	T-135-N R-72-W	313100.96	2152802.55
NE Cor Sec 7	T-135-N R-72-W	315755.27	2152789.09
E¼ Cor Sec 6	T-135-N R-72-W	318360.72	2152793.47
NE Cor Sec 6	T-135-N R-72-W	320947.13	2152797.67
E¼ Cor Sec 31	T-136-N R-72-W	323589.77	2152801.80
NE Cor Sec 31	T-136-N R-72-W	326239.06	2152806.97
E¼ Cor Sec 30	T-136-N R-72-W	328886.23	2152781.89
NE Cor Sec 30	T-136-N R-72-W	331494.53	2152757.10
E¼ Cor Sec 19	T-136-N R-72-W	334152.30	2152732.25
NE Cor Sec 19	T-136-N R-72-W	336820.47	2152707.08
E¼ Cor Sec 18	T-136-N R-72-W	339441.44	2152672.92
NE Cor Sec 18	T-136-N R-72-W	342081.51	2152638.52
NE Cor Sec 17	T-136-N R-72-W	342063.18	2157918.34
E¼ Cor Sec 7	T-136-N R-72-W	344715.58	2152611.19
NE Cor Sec 7	T-136-N R-72-W	347349.81	2152583.95
NE Cor Sec 8	T-136-N R-72-W	347330.98	2157867.45
E¼ Cor Sec 6	T-136-N R-72-W	349981.83	2152563.82
E¼ Cor Sec 5	T-136-N R-72-W	349982.37	2157840.54
SE Cor Sec 32	T-137-N R-72-W	353098.32	2148007.52
S¼ Cor Sec 33	T-137-N R-72-W	353112.83	2150650.82
NE Cor Sec 6	T-136-N R-72-W	353126.48	2152539.86
SE Cor Sec 33	T-137-N R-72-W	353127.35	2153294.12
N¼ Cor Sec 5	T-136-N R-72-W	353134.36	2155174.17
S¼ Cor Sec 34	T-137-N R-72-W	353137.20	2155939.87
SE Cor Sec 34	T-137-N R-72-W	353147.00	2158585.57

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION
PRIMARY CONTROL						
GPS 3-1	310137.70	2152773.52	1984.63	3144+62.90	44 Lt	
GPS 3-2	313098.34	2152707.29	1993.05	3170+91.72	95 Lt	
GPS 3-3	323737.52	2152881.67	1970.03	3277+30.60	80 Rt	
GPS 3-4	336398.23	2152579.25	2076.23	3403+92.85	132 Rt	
GPS 3-5	347461.95	2152901.40	2091.72	3514+79.73	119 Rt	

REFERENCE MARKERS

R Mkr #	NORTHING	EASTING	STATION	OFFSET	CHAIN
R Mkr 60	312812.54	2152834.02	3168+05	30 Rt	SCL3-LOGAN
R Mkr 61	318093.37	2152825.28	3220+86	30 Rt	SCL3-LOGAN
R Mkr 62	323373.25	2152834.10	3273+66	30 Rt	SCL3-LOGAN
R Mkr 63	328610.44	2152815.33	3326+03	30 Rt	SCL3-LOGAN
R Mkr 64	333894.27	2152765.42	3378+87	30 Rt	SCL3-LOGAN
R Mkr 65	339167.18	2152706.13	3431+60	30 Rt	SCL3-LOGAN
R Mkr 66	344452.80	2152645.48	3484+46	31 Rt	SCL3-LOGAN
R Mkr 67	349729.76	2152809.80	3537+42	34 Rt	SCL3-LOGAN

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☐ Assumed Coordinates

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INITIALIZING BENCH MARK NDGPS Stations (OPUS)

☒ NAVD-88
☐ NGVD-29

☒ ENGLISH UNITS
☐ METRIC UNITS

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NOTES: Sheet 1 of 2

Date Survey Completed __/_/_

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - Jct 34 N to I-94 Dawson

Revised 10/31/2014

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-RSS-1-003(034)059	81	2

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
ND 34 - SCL34			
Beg	368+46.00	310505.30	2149873.75
PC	392+42.19	310523.43	2152269.87
PI C34-1	395+37.25	310525.66	2152564.92
Intersection of ND 3 and ND 34			
ND 3	3145+07.38	310515.63	2152815.85
ND 34	397+88.83	310515.63	2152815.85
PT	398+32.19	310512.70	2152859.70
PC	405+33.06	310481.93	2153559.90
PI C34-2	408+83.10	310466.56	2153909.61
PT	412+33.06	310465.44	2154259.65
End	424+07.11	310461.68	2155433.71

CURVE DATA

ARC DEFINITION

C34-1	C34-2
PI Sta = 395+37.25	PI Sta = 408+83.10
Delta = 2° 57′ 00″ RT	Delta = 2° 20′ 00″ LT
D_a = 0° 30′ 00″	D_a = 0° 20′ 00″
R = 11,459.16′	R = 17,188.73′
T = 295.07′	T = 350.05′
L = 590.00′	L = 700.00′

US PUBLIC LAND SURVEY DATA

DESC. SEC-TWP-RGE	NORTHING	EASTING

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION

NOTES: Sheet 2 of 2

Date Survey Completed __/_/_

☐ Assumed Coordinates

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All coordinates and measurements on this document derived from the International Foot definition.

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88
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☒ ENGLISH UNITS
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PRELIMINARY SURVEY COORDINATE AND CURVE DATA - Jct 34 N to I-94 Dawson

Revised 10/31/2014

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-RSS-1-003(034)059	81	3

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
PC (Begin)	3570+55.56	352981.57	2153305.19
Twp Line	16.06' from PI BK TAN	353134.60	2153341.44
PI C4	3572+28.89	353150.23	2153345.14
PT	3574+00.55	353323.56	2153343.71
1/4 Line	3598+67.23	355790.15	2153323.32
Sec Line	3625+22.87	358445.70	2153301.35
1/4 Line	3651+65.20	361087.99	2153284.81
Sec Line	3678+07.54	363730.27	2153268.28
1/4 Line	3704+58.75	366381.45	2153254.56
Sec Line	3731+15.45	369038.15	2153251.59
1/4 Line	3757+62.08	371684.78	2153248.62
Sec Line	3783+60.78	374283.36	2153224.68
1/4 Line	3810+08.56	376931.14	2153225.71
Sec Line	3836+56.33	379578.92	2153226.74
1/4 Line	3863+01.05	382223.63	2153231.06
Twp Line	3889+53.72	384876.29	2153235.40
1/4 Line	3916+33.22	387555.80	2153236.44
Sec Line	3943+12.73	390235.31	2153237.48
1/4 Line	3969+62.98	392885.55	2153234.34
Sec Line	3996+13.22	395535.80	2153231.21
1/4 Line	4022+75.06	398197.63	2153225.02
Sec Line	4049+36.91	400859.47	2153218.83
1/4 Line	4075+12.74	403435.10	2153186.23
Sec Line	4100+88.58	406010.73	2153153.64
1/4 Line	4127+74.64	408696.69	2153130.23
TS	4149+33.38	410855.35	2153111.42
SC	4152+33.38	411155.10	2153119.27
Sec Line	29.16' from PI BK TAN	411373.89	2153106.90
PI SCS1	4154+81.10	411403.04	2153106.65
CS	4157+08.03	411611.49	2153241.51
ST	4160+08.03	411875.04	2153384.52
TS	4183+23.61	413870.49	2154559.30
1/4 Line	176.19' from PI BK TAN	414009.02	2154640.85
SC	4186+23.61	414134.04	2154702.32

CURVE DATA

ARC DEFINITION						
			C4			
			PI Sta	=	3572+28.89	
			Delta	=	13° 47' 58" LT	
			D_a	=	4° 00'	
			R	=	1,432.39'	
			T	=	173.33'	
			L	=	344.99'	
	SCS1			SCS2		
	PI Sta	=	4154+81.10	PI Sta	=	4186+60.55
	Delta	=	30° 59' 09" RT	Delta	=	14° 50' 54" LT
	D_a	=	4° 00' 00"	D_a	=	4° 00'
	R	=	1,432.39'	R	=	1,432.39'
	L	=	474.64'	L	=	71.21'
	L_s	=	300.00'	L_s	=	300.00'
	S_c	=	6° 00'	S_c	=	6° 00'
	T_s	=	547.72'	T_s	=	336.93'

US PUBLIC LAND SURVEY DATA

DESC. SEC-TWP-RGE		NORTHING	EASTING
SE Cor Sec 32	T-137-N R-72-W	353105.56	2148051.56
S1/4 Cor Sec 33	T-137-N R-72-W	353120.07	2150694.92
NE Cor Sec 6	T-136-N R-72-W	353133.72	2152583.99
SE Cor Sec 33	T-137-N R-72-W	353134.59	2153338.27
N1/4 Cor Sec 5	T-136-N R-72-W	353141.60	2155218.36
S1/4 Cor Sec 34	T-137-N R-72-W	353144.44	2155984.07
SE Cor Sec 34	T-137-N R-72-W	353154.24	2158629.82
E1/4 Cor Sec 32	T-137-N R-72-W	355755.01	2148026.71
E1/4 Cor Sec 33	T-137-N R-72-W	355790.13	2153316.32
E1/4 Cor Sec 34	T-137-N R-72-W	355810.23	2158605.12
NE Cor Sec 32	T-137-N R-72-W	358404.46	2148001.86
N1/4 Cor Sec 33	T-137-N R-72-W	358425.07	2150648.10
NE Cor Sec 33	T-137-N R-72-W	358445.68	2153294.35
N1/4 Cor Sec 34	T-137-N R-72-W	358455.93	2155937.38
NE Cor Sec 34	T-137-N R-72-W	358466.18	2158580.42
E1/4 Cor Sec 29	T-137-N R-72-W	361055.49	2147976.99
E1/4 Cor Sec 28	T-137-N R-72-W	361087.95	2153277.81
E1/4 Cor Sec 27	T-137-N R-72-W	361112.65	2158586.76
NE Cor Sec 29	T-137-N R-72-W	363706.51	2147952.12
N1/4 Cor Sec 28	T-137-N R-72-W	363718.37	2150606.70
NE Cor Sec 28	T-137-N R-72-W	363730.23	2153261.28
N1/4 Cor Sec 27	T-137-N R-72-W	363744.72	2155927.19
NE Cor Sec 27	T-137-N R-72-W	363759.12	2158577.00
E1/4 Cor Sec 20	T-137-N R-72-W	366347.95	2147944.34
E1/4 Cor Sec 21	T-137-N R-72-W	366381.41	2153247.56
E1/4 Cor Sec 22	T-137-N R-72-W	366405.59	2158564.19
NE Cor Sec 20	T-137-N R-72-W	368989.38	2147936.57
N1/4 Cor Sec 21	T-137-N R-72-W	369013.76	2150590.58
NE Cor Sec 21	T-137-N R-72-W	369038.13	2153244.59
N1/4 Cor Sec 22	T-137-N R-72-W	369045.09	2155897.99
NE Cor Sec 22	T-137-N R-72-W	369052.05	2158551.39
E1/4 Cor Sec 17	T-137-N R-72-W	371631.42	2147928.77

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION
PRIMARY CONTROL						
GPS 3-6	356310.93	2153421.88	2078.45	3603+87.21	103 Rt	
GPS 3-7	370546.93	2153103.68	2008.20	3746+24.40	146 Lt	
GPS 3-8	381252.69	2153140.93	1924.94	3853+29.96	89 Lt	
GPS 3-9	392897.36	2153308.64	1833.16	3969+74.70	74 Rt	
GPS 3-10	404161.01	2153065.19	1786.32	4082+40.01	112 Lt	
GPS 3-11	414483.50	2154748.25	1756.75	4189+73.42	70 Lt	
GPS 3-12	424529.42	2155190.64	1756.87	4305+06.96	81 Rt	
GPS 3-13	434708.87	2156232.91	1757.25	4411+28.54	76 Lt	
GPS 3-14	440988.28	2155987.37	1751.54	4474+10.67	54 Rt	
GPS 3-15	442280.13	2155939.04	1753.40	4487+05.47	114 Lt	

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☐ Assumed Coordinates

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INITIALIZING BENCH MARK NDGPS Stations (OPUS)

☒ NAVD-88
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NOTES: Sheet 1 of 3

Date Survey Completed __/_/_

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	81	4

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
PI SCS2	4186+60.55	414160.85	2154730.24
CS	4186+94.82	414199.55	2154730.21
ST	4189+94.82	414485.31	2154821.06
TS	4202+40.72	415685.09	2155156.91
SC	4205+40.72	415976.49	2155227.61
PI SCS3	4211+75.54	416585.31	2155408.90
Twp Line	61.17' from PI AH TAN	416630.97	2155368.20
CS	4216+74.54	417052.47	2154978.45
ST	4219+74.54	417283.12	2154786.85
TS	4239+45.70	418754.53	2153475.20
SC	4242+45.70	418985.19	2153283.60
PI SCS4	4245+63.15	419215.44	2153064.33
1/4 Line	56.74' from PI AH TAN	419271.91	2153058.77
CS	4248+47.94	419532.72	2153043.60
Sec Line	400.39' from PI AH TAN	419613.90	2153025.09
ST	4251+47.94	419829.92	2153003.81
TS	4256+04.62	420284.40	2152959.05
SC	4259+04.62	420583.54	2152937.48
PI SCS5	4264+21.57	421097.41	2152878.98
Sec Line	239.36' from PI AH TAN	421298.51	2153008.78
CS	4268+86.78	421527.64	2153166.01
ST	4271+86.78	421783.80	2153322.00
1/4 Line	4305+05.23	424571.93	2155121.58
1/4 Line	4315+12.43	425418.17	2155667.78
TS	4330+02.22	426669.87	2156475.68
SC	4333+02.22	426927.33	2156629.40
PI SCS6	4336+30.48	427197.73	2156816.38
Sec Line	18.22' from PI AH TAN	427215.91	2156815.10
CS	4339+23.93	427524.78	2156782.86
ST	4342+23.93	427824.44	2156772.24
1/4 Line	4362+61.45	429856.92	2156629.10
Sec Line	4389+08.55	432497.49	2156443.13
1/4 Line	4415+59.87	435143.96	2156282.93
Sec Line	4442+10.79	437790.18	2156125.13

NOTES: Sheet 2 of 3

CURVE DATA

ARC DEFINITION

SCS3	SCS4
PI Sta = 4211+75.54	PI Sta = 4245+63.15
Delta = 57° 21' 10" LT	Delta = 36° 05' 23" RT
D_a = 4° 00'	D_a = 4° 00'
R = 1,432.39'	R = 1,432.39'
L = 1,133.82'	L = 602.25'
L_s = 300.00'	L_s = 300.00'
S_c = 6° 00'	S_c = 6° 00'
T_s = 934.82'	T_s = 617.45'

SCS5	SCS6
PI Sta = 4264+21.57	PI Sta = 4336+30.48
Delta = 38° 27' 53" RT	Delta = 36° 52' 06" LT
D_a = 3° 00'	D_a = 4° 00'
R = 1,909.86'	R = 1,432.39'
L = 982.16'	L = 621.71
L_s = 300.00'	L_s = 300.00'
S_c = 4° 30'	S_c = 6° 00'
T_s = 816.95'	T_s = 628.26'

Date Survey Completed __/_/_

US PUBLIC LAND SURVEY DATA

DESC.	SEC-TWP-RGE	NORTHING	EASTING
E1/4 Cor Sec 16	T-137-N R-72-W	371684.77	2153241.62
E1/4 Cor Sec 15	T-137-N R-72-W	371691.84	2158546.00
NE Cor Sec 17	T-137-N R-72-W	374273.45	2147920.97
N1/4 Cor Sec 16	T-137-N R-72-W	374278.37	2150569.32
NE Cor Sec 16	T-137-N R-72-W	374283.30	2153217.68
N1/4 Cor Sec 15	T-137-N R-72-W	374307.46	2155879.14
NE Cor Sec 15	T-137-N R-72-W	374331.62	2158540.61
E1/4 Cor Sec 8	T-137-N R-72-W	376915.48	2147911.39
E1/4 Cor Sec 9	T-137-N R-72-W	376931.09	2153218.71
E1/4 Cor Sec 10	T-137-N R-72-W	376971.40	2158535.22
NE Cor Sec 8	T-137-N R-72-W	379557.51	2147901.81
N1/4 Cor Sec 9	T-137-N R-72-W	379568.19	2150560.78
NE Cor Sec 9	T-137-N R-72-W	379578.87	2153219.74
N1/4 Cor Sec 10	T-137-N R-72-W	379595.03	2155874.79
NE Cor Sec 10	T-137-N R-72-W	379611.18	2158529.84
E1/4 Cor Sec 5	T-137-N R-72-W	382193.14	2147916.28
E1/4 Cor Sec 4	T-137-N R-72-W	382223.58	2153224.06
E1/4 Cor Sec 3	T-137-N R-72-W	382263.34	2158530.30
NE Cor Sec 5	T-137-N R-72-W	384836.67	2147930.78
N1/4 Cor Sec 4	T-137-N R-72-W	384856.46	2150579.59
NE Cor Sec 4	T-137-N R-72-W	384876.24	2153228.40
N1/4 Cor Sec 3	T-137-N R-72-W	384895.87	2155879.59
NE Cor Sec 3	T-137-N R-72-W	384915.50	2158530.77
E1/4 Cor Sec 32	T-138-N R-72-W	387525.98	2147937.62
E1/4 Cor Sec 33	T-138-N R-72-W	387555.80	2153229.44
E1/4 Cor Sec 34	T-138-N R-72-W	387554.83	2158528.72
NE Cor Sec 32	T-138-N R-72-W	390215.30	2147944.45
N1/4 Cor Sec 33	T-138-N R-72-W	390225.33	2150587.46
NE Cor Sec 33	T-138-N R-72-W	390235.36	2153230.48
N1/4 Cor Sec 34	T-138-N R-72-W	390214.75	2155878.58
NE Cor Sec 34	T-138-N R-72-W	390170.59	2158524.86
E1/4 Cor Sec 29	T-138-N R-72-W	392854.21	2147948.34

☐ Assumed Coordinates

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SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET

CONTROL POINT DESCRIPTION

REFERENCE MARKERS

R Mkr #	NORTHING	EASTING	STATION	OFFSET	CHAIN
R Mkr 68	354929.63	2153352.85	3590+06	22 Rt	SCL3-KIDDER
R Mkr 69	360211.78	2153321.02	3642+89	30 Rt	SCL3-KIDDER
R Mkr 70	365494.74	2153291.34	3695+72	32 Rt	SCL3-KIDDER
R Mkr 71	370760.15	2153280.23	3748+37	30 Rt	SCL3-KIDDER
R Mkr 72	376046.83	2153256.98	3801+24	32 Rt	SCL3-KIDDER
R Mkr 73	381330.23	2153260.93	3854+08	31 Rt	SCL3-KIDDER
R Mkr 74	386570.59	2153266.51	3906+48	31 Rt	SCL3-KIDDER
R Mkr 75	391946.44	2153265.39	3960+24	30 Rt	SCL3-KIDDER
R Mkr 76	XXXX	XXXX	4012+67	33 Rt	SCL3-KIDDER
R Mkr 77	402439.84	2153229.57	4065+17	31 Rt	SCL3-KIDDER
R Mkr 78	407676.83	2153169.21	4117+54	30 Rt	SCL3-KIDDER
R Mkr 79	412757.00	2153939.33	4170+50	31 Rt	SCL3-KIDDER
R Mkr 80	417560.48	2154582.05	4223+18	32 Rt	SCL3-KIDDER
R Mkr 81	422126.53	2153579.19	4276+14	30 Rt	SCL3-KIDDER
R Mkr 82	XXXX	XXXX	4329+15	32 Rt	SCL3-KIDDER
R Mkr 83	431784.84	2156525.49	4381+92	32 Rt	SCL3-KIDDER
R Mkr 84	437062.71	2156200.66	4434+80	32 Rt	SCL3-KIDDER
R Mkr 85	442304.05	2156105.20	4487+27	53 Rt	SCL3-KIDDER

All coordinates and measurements on this document derived from the International Foot definition.

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88
☐ NGVD-29

☒ ENGLISH UNITS
☐ METRIC UNITS

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PRELIMINARY SURVEY COORDINATE AND CURVE DATA - Jct 34 N to I-94 Dawson

Revised 10/31/2014

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-RSS-1-003(034)059	81	5

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
PI	4456+77.36	439254.86	2156050.69
PI	4459+85.71	439562.75	2156033.79
PC	4460+63.69	439640.62	2156029.78
PI C5	4462+64.87	439841.54	2156019.43
PT	4464+65.89	440042.69	2156023.19
1/4 Line	4468+67.34	440444.07	2156030.70
PI	4480+65.41	441641.93	2156053.12
PC	4482+54.13	441830.64	2156055.50
PI C6	4484+18.12	441994.62	2156057.57
PT	4485+82.09	442158.59	2156054.95
Intersection of ND 3 and I 94			
ND 3	4493+07.02	442883.42	2156043.35
I 94	823+19.34	442883.42	2156043.35
Sec Line	4495+22.44	443098.81	2156039.90
End	4501+36.16	443712.45	2156030.08
I 94 - SCLI94			
Beg	792+82.67	442832.73	2153007.10
Intersection of ND 3 and I 94			
ND 3	4493+07.02	442883.42	2156043.35
I 94	823+19.34	442883.42	2156043.35
End	843+93.76	442918.05	2158117.48

CURVE DATA

ARC DEFINITION

C5	C6
PI Sta = 4462+64.87	PI Sta = 4484+18.12
Delta = 4° 01′ 19″ RT	Delta = 1° 38′ 23″ LT
D_a = 1° 00′	D_a = 0° 30′
R = 5,729.58′	R = 11,459.16′
T = 201.18′	T = 163.99′
L = 402.20′	L = 327.96′

US PUBLIC LAND SURVEY DATA

DESC. SEC-TWP-RGE		NORTHING	EASTING
E1/4 Cor Sec 28	T-138-N R-72-W	392885.62	2153227.34
E1/4 Cor Sec 27	T-138-N R-72-W	392833.46	2158516.92
NE Cor Sec 29	T-138-N R-72-W	395493.12	2147952.23
N1/4 Cor Sec 28	T-138-N R-72-W	395514.50	2150588.22
NE Cor Sec 28	T-138-N R-72-W	395535.88	2153224.21
N1/4 Cor Sec 27	T-138-N R-72-W	395504.32	2155865.68
NE Cor Sec 27	T-138-N R-72-W	395472.77	2158507.16
E1/4 Cor Sec 20	T-138-N R-72-W	398131.28	2147926.99
E1/4 Cor Sec 21	T-138-N R-72-W	398197.73	2153218.02
E1/4 Cor Sec 22	T-138-N R-72-W	398121.11	2158502.07
NE Cor Sec 20	T-138-N R-72-W	400769.43	2147901.75
N1/4 Cor Sec 21	T-138-N R-72-W	400814.51	2150556.79
NE Cor Sec 21	T-138-N R-72-W	400859.58	2153211.83
N1/4 Cor Sec 22	T-138-N R-72-W	400814.52	2155854.40
NE Cor Sec 22	T-138-N R-72-W	400769.46	2158469.98
E1/4 Cor Sec 17	T-138-N R-72-W	403407.59	2147876.51
E1/4 Cor Sec 16	T-138-N R-72-W	403435.12	2153179.23
E1/4 Cor Sec 15	T-138-N R-72-W	403417.79	2158464.12
NE Cor Sec 16	T-138-N R-72-W	406010.65	2153146.65
N1/4 Cor Sec 15	T-138-N R-72-W	406038.39	2155788.95
NE Cor Sec 15	T-138-N R-72-W	406066.13	2158431.27
E1/4 Cor Sec 9	T-138-N R-72-W	408696.67	2153125.72
E1/4 Cor Sec 10	T-138-N R-72-W	408714.29	2158415.97
NE Cor Sec 9	T-138-N R-72-W	411373.89	2153104.85
N1/4 Cor Sec 10	T-138-N R-72-W	411368.17	2155752.76
NE Cor Sec 10	T-138-N R-72-W	411362.46	2158400.68
E1/4 Cor Sec 4	T-138-N R-72-W	414004.31	2153079.39
E1/4 Cor Sec 3	T-138-N R-72-W	414020.28	2158376.70
NE Cor Sec 3	T-138-N R-72-W	416651.55	2158352.97
E1/4 Cor Sec 33	T-139-N R-72-W	419271.78	2153028.40
NE Cor Sec 33	T-139-N R-72-W	421928.55	2153002.68
E1/4 Cor Sec 28	T-139-N R-72-W	424566.12	2153014.66

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION

US PUBLIC LAND SURVEY DATA

DESC. SEC-TWP-RGE		NORTHING	EASTING
E1/4 Cor Sec 27	T-139-N R-72-W	424580.73	2158319.55
NE Cor Sec 28	T-139-N R-72-W	427203.70	2153026.60
N1/4 Cor Sec 27	T-139-N R-72-W	427212.21	2155668.34
NE Cor Sec 27	T-139-N R-72-W	427220.73	2158310.03
E1/4 Cor Sec 21	T-139-N R-72-W	429841.27	2153038.62
E1/4 Cor Sec 22	T-139-N R-72-W	429864.29	2158320.08
NE Cor Sec 21	T-139-N R-72-W	432478.85	2153050.60
N1/4 Cor Sec 22	T-139-N R-72-W	432493.35	2155690.37
NE Cor Sec 22	T-139-N R-72-W	432507.86	2158330.14
E1/4 Cor Sec 16	T-139-N R-72-W	435123.35	2153043.25
E1/4 Cor Sec 15	T-139-N R-72-W	435156.95	2158324.74
NE Cor Sec 16	T-139-N R-72-W	437767.85	2153035.90
N1/4 Cor Sec 15	T-139-N R-72-W	437786.95	2155677.62
NE Cor Sec 15	T-139-N R-72-W	437806.05	2158319.34
N1/4 Cor Sec 14	T-139-N R-72-W	437836.36	2160975.33
NE Cor Sec 14	T-139-N R-72-W	437866.68	2163595.31
E1/4 Cor Sec 9	T-139-N R-72-W	440416.82	2153020.83
E1/4 Cor Sec 10	T-139-N R-72-W	440464.62	2158301.45
NE Cor Sec 9	T-139-N R-72-W	443065.84	2153005.78
N1/4 Cor Sec 10	T-139-N R-72-W	443094.50	2155644.67
NE Cor Sec 10	T-139-N R-72-W	443123.20	2158283.56

All coordinates and measurements on this document derived from the International Foot definition.

☐ Assumed Coordinates

☒ All coordinates on this sheet are Kidder County ground coordinates. They are derived from the "North Dakota Coordinate System of 1983", NAD83(CORS), South Zone Combination factor (cf) = 0.9998515

INITIALIZING BENCH MARK
NDGPS Stations (OPUS)

☒ NAVD-88
☐ NGVD-29

☒ ENGLISH UNITS
☐ METRIC UNITS

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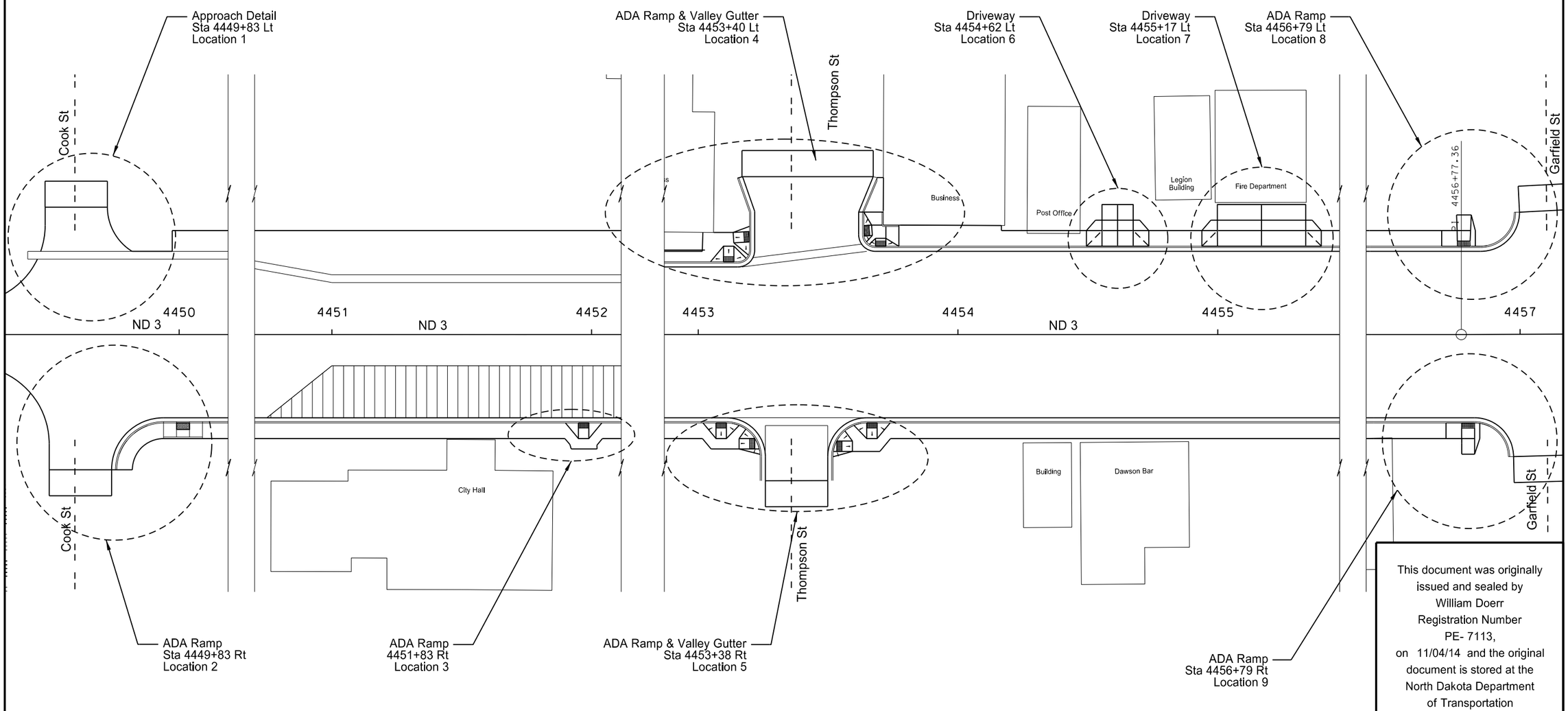
NOTES: Sheet 3 of 3

Date Survey Completed __/_/_

Revised 11/04/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	90	1



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City of Dawson ADA Ramps and Driveways
General Locations

ND 3

Jct 34 N to I-94 Dawson

Revised 11/04/14	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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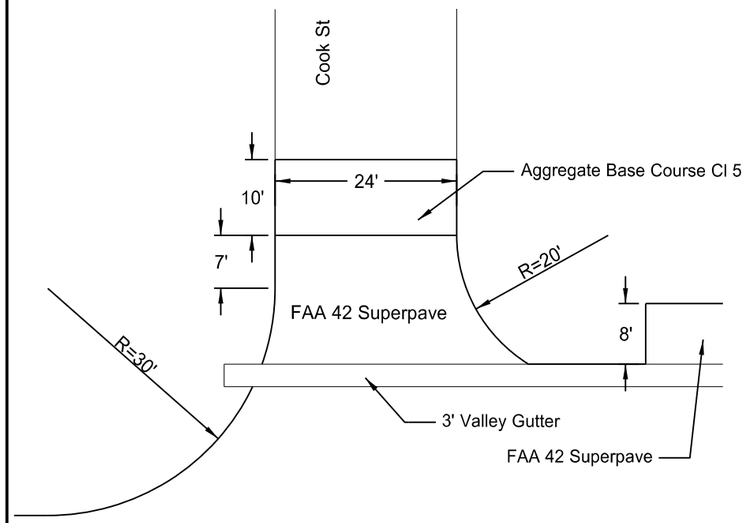
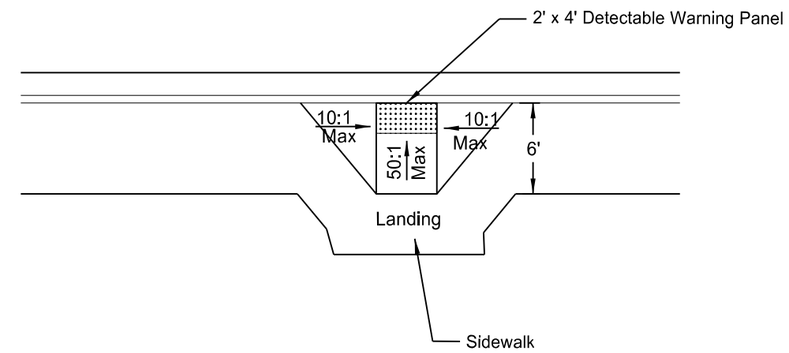
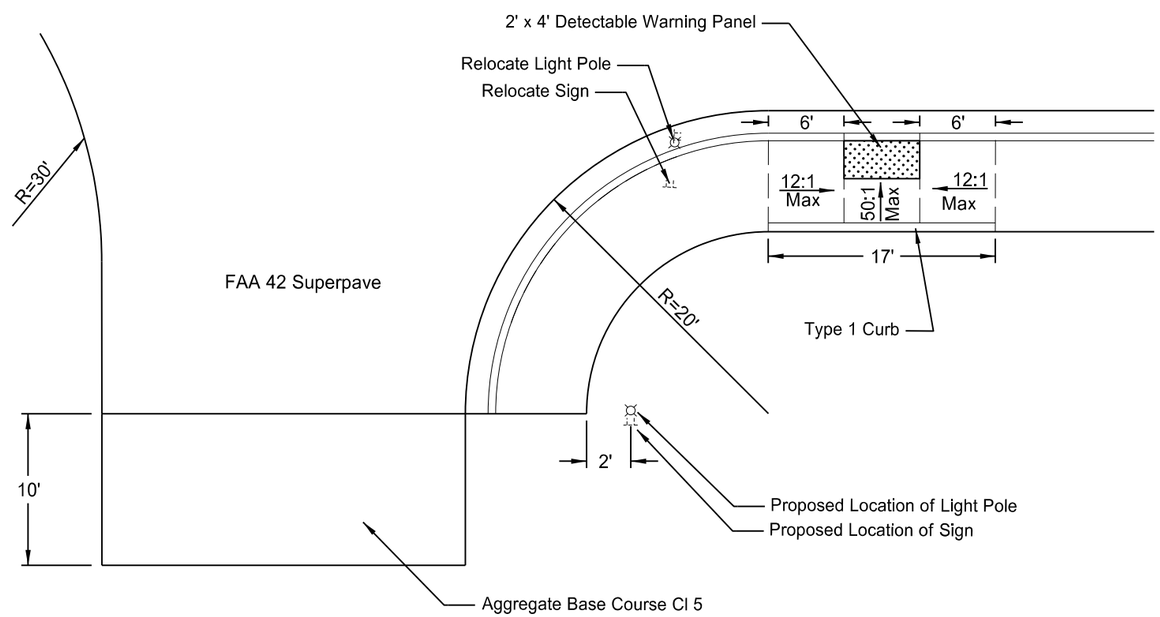


Location 1 Sta 4449+83 Lt
Approach Detail



Location 3 Sta 4451+83 Rt
ADA Ramp



Location 2 Sta 4449+83 Rt
ADA Ramp

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City of Dawson ADA Ramps and Driveways Details

ND 3

Jct 34 N to I-94 Dawson

Revised 11/04/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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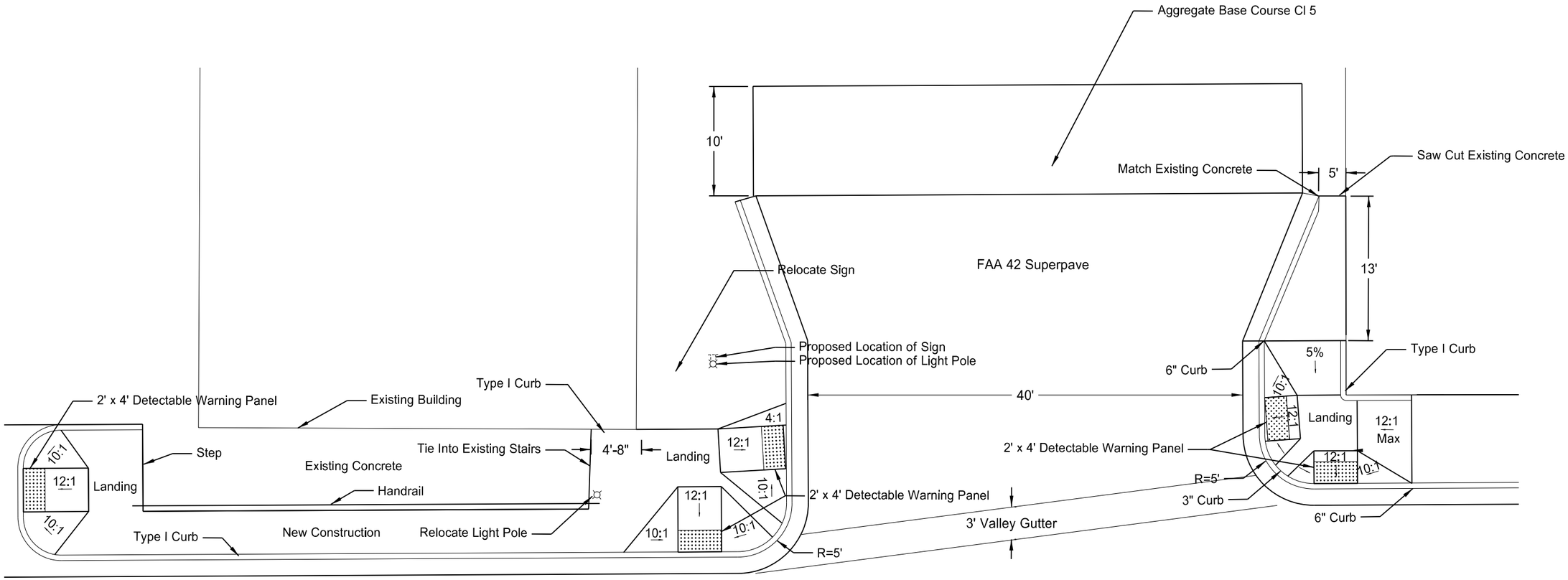

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City of Dawson ADA Ramps and Driveways Details

ND 3

Jct 34 N to I-94 Dawson

Location 4 Sta 4453+40 Lt
ADA Ramp & Valley Gutter

Revised 11/04/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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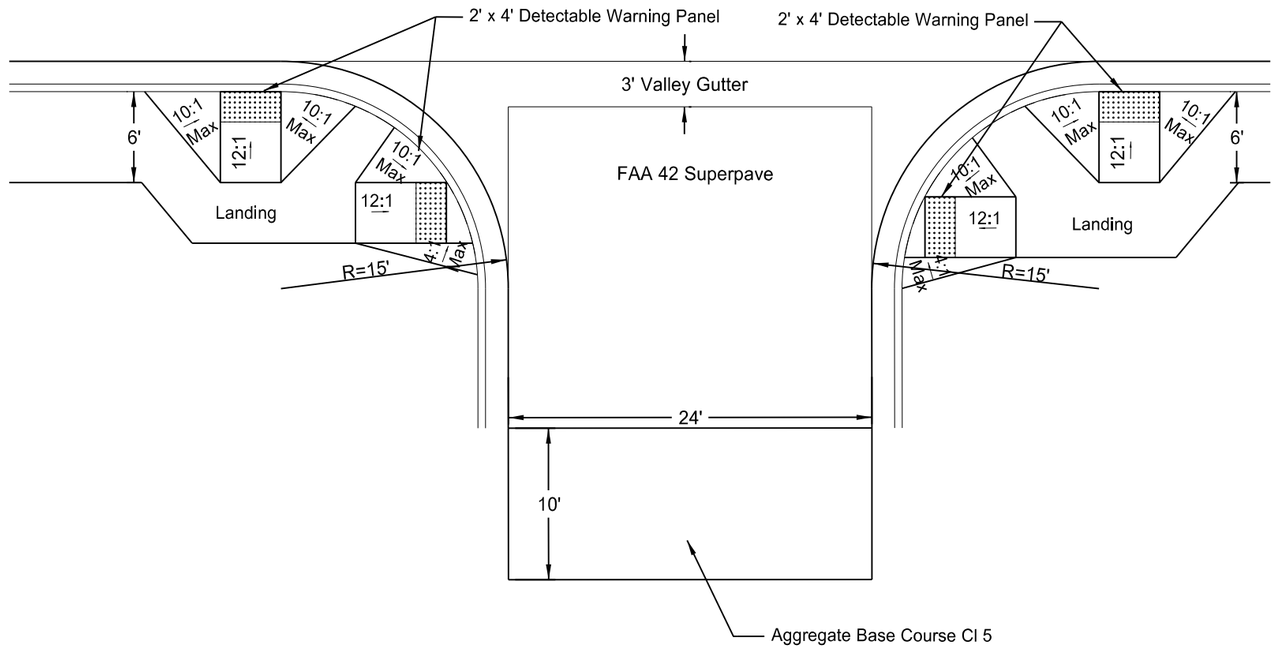
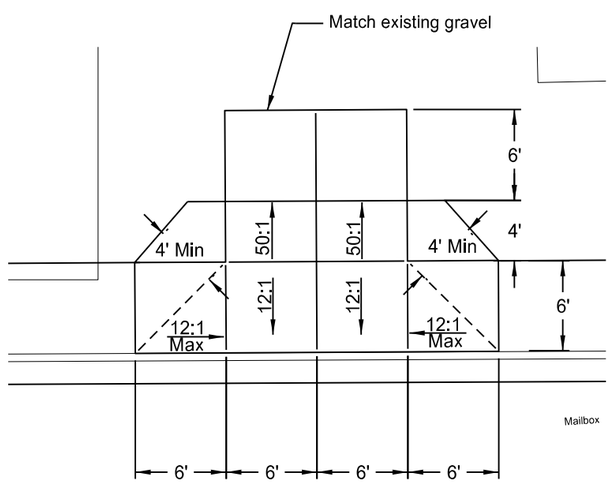
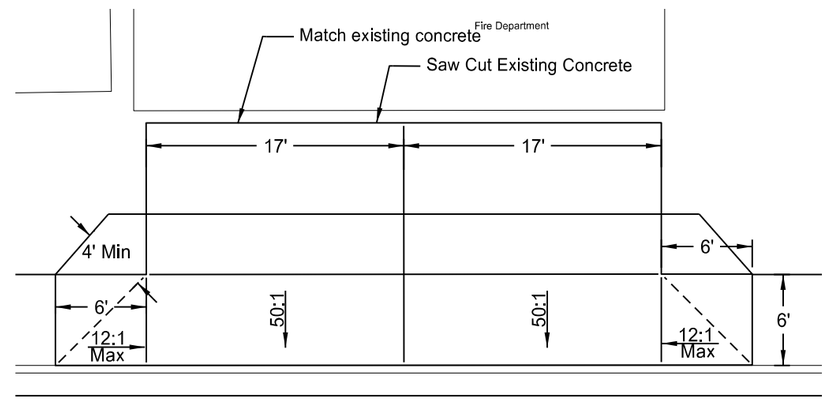


Location 5 Sta 4453+38 Rt
ADA Ramp & Valley Gutter



Location 6 Sta 4454+62 Lt
Driveway



Location 7 Sta 4455+17 Lt
Driveway

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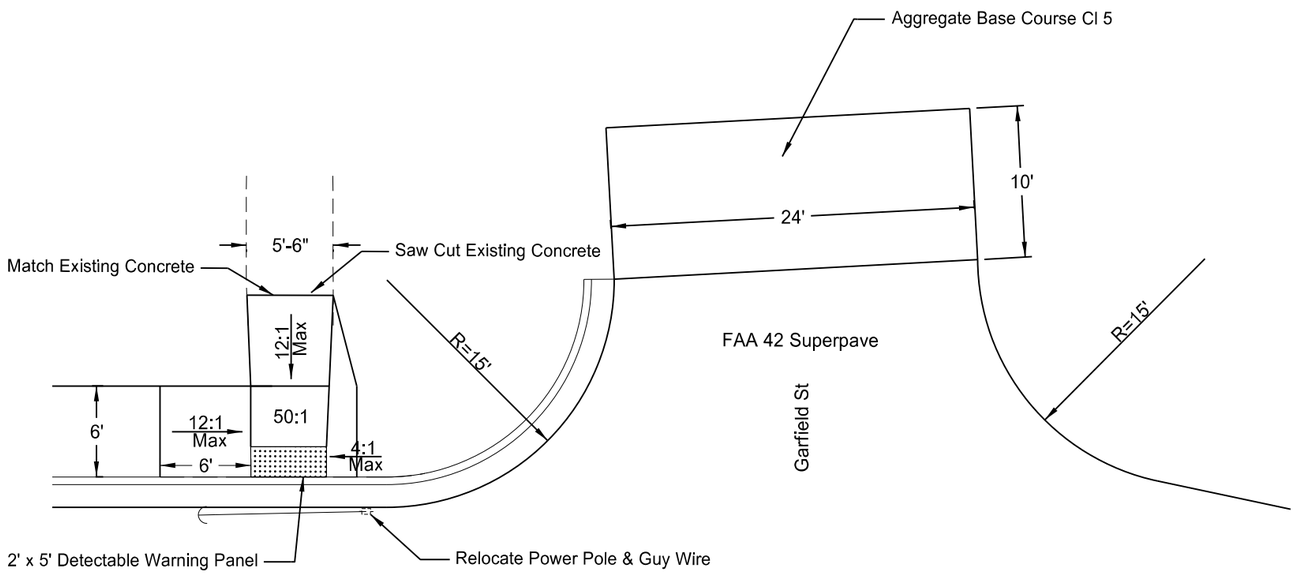
City of Dawson ADA Ramps and Driveways Details

ND 3

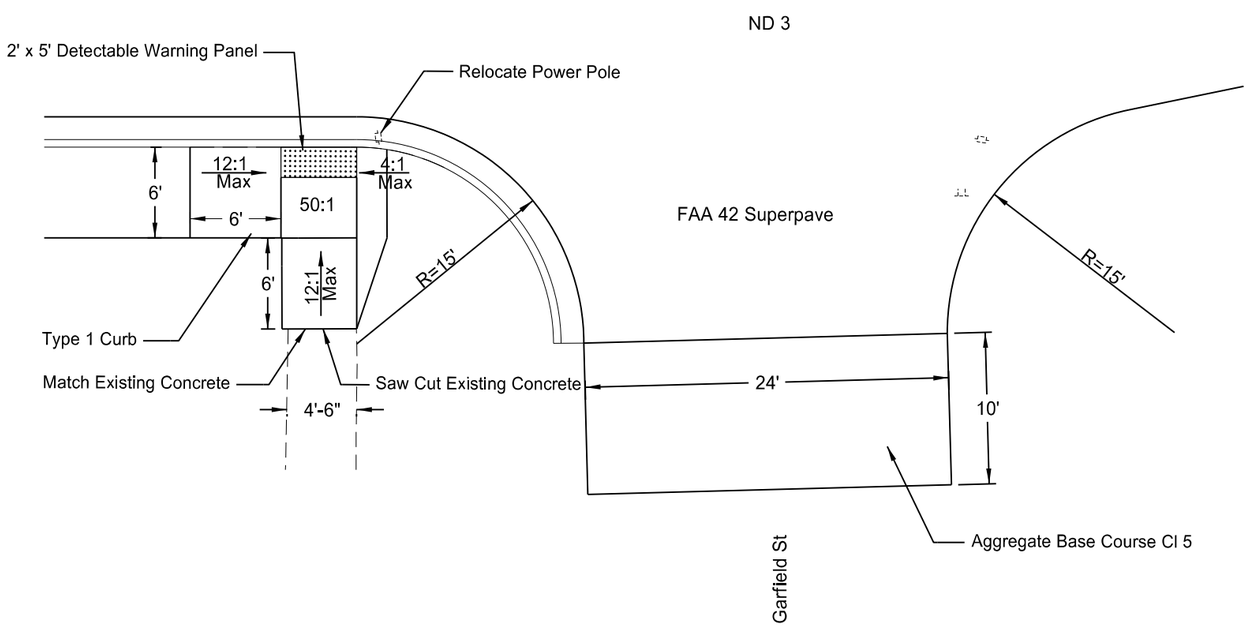
Jct 34 N to I-94 Dawson

Revised 11/04/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	90	5



ND 3

Location 8 Sta 4456+79 Lt
ADA Ramp



Location 9 Sta 4456+79 Rt
ADA Ramp

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City of Dawson ADA Ramps and Driveways Details

ND 3

Jct 34 N to I-94 Dawson

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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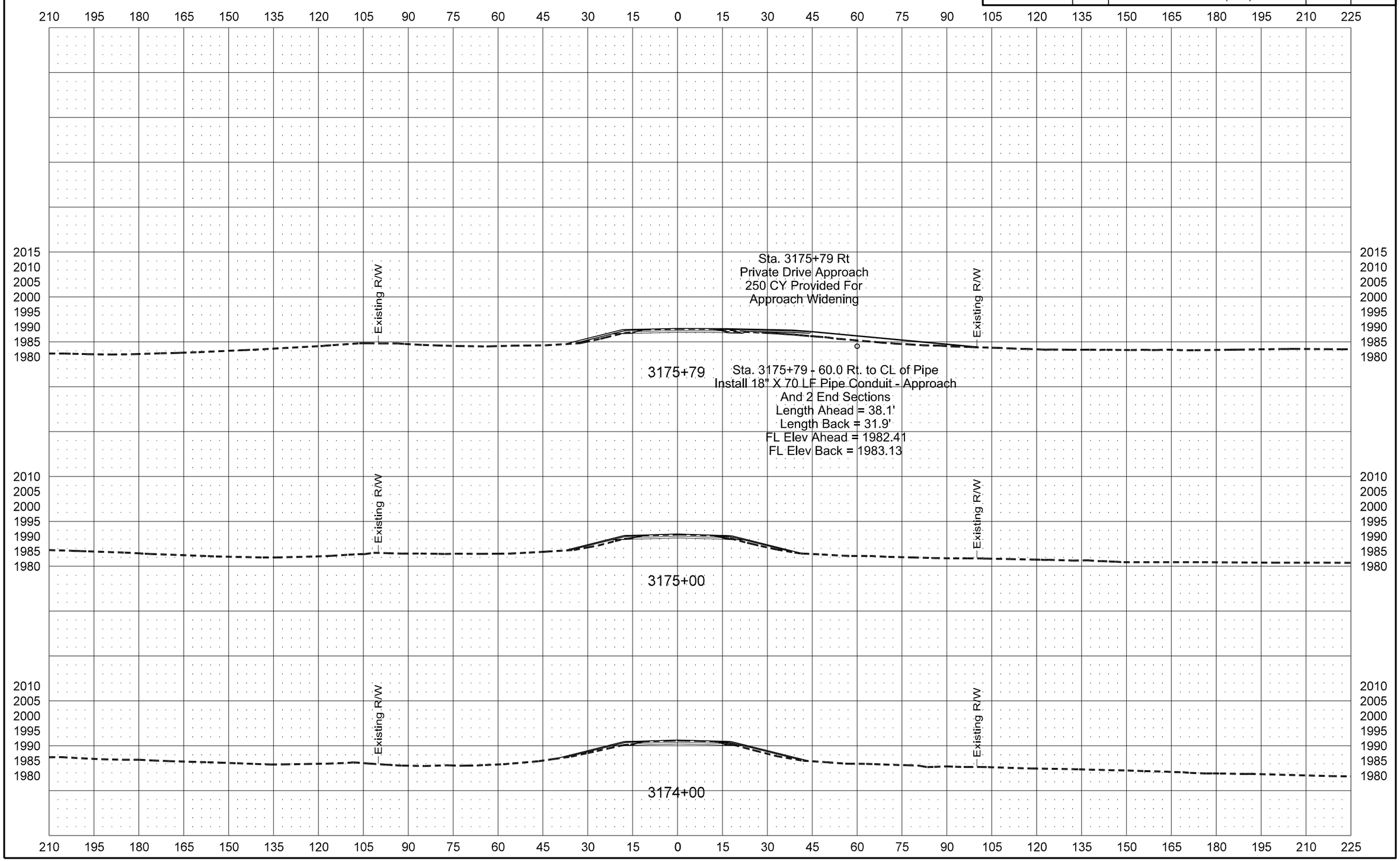

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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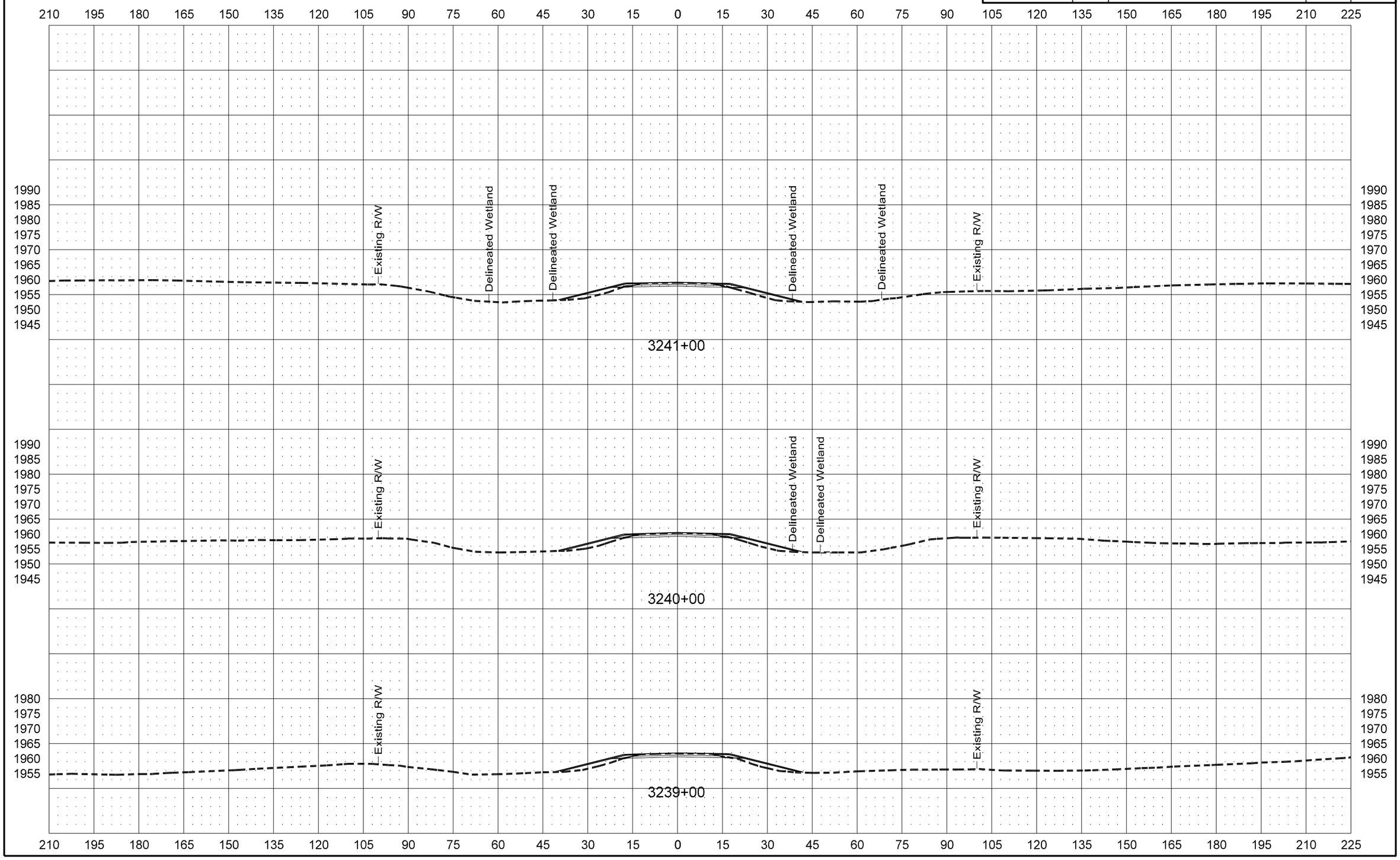
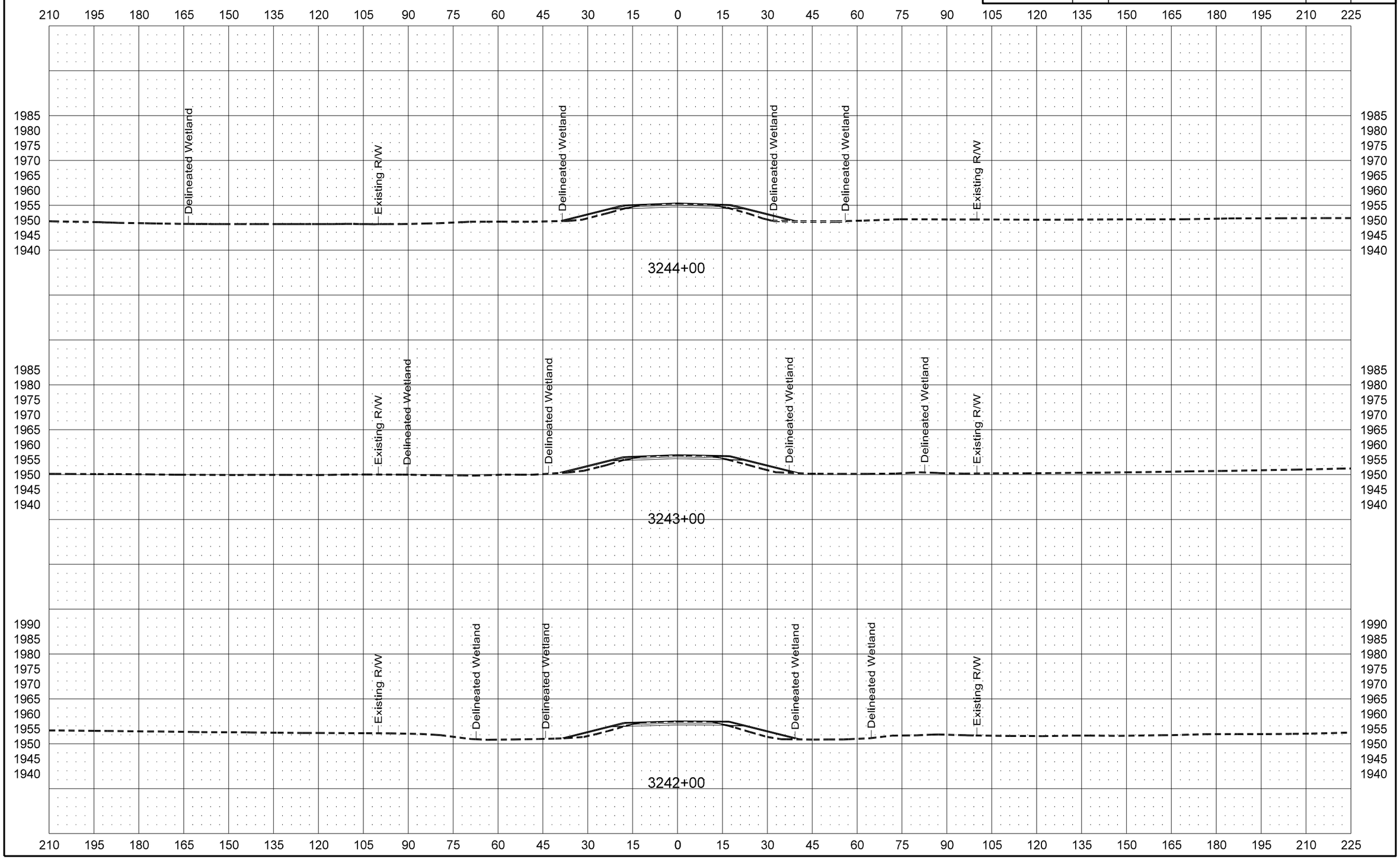


Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-RSS-1-003(034)059	200	38



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Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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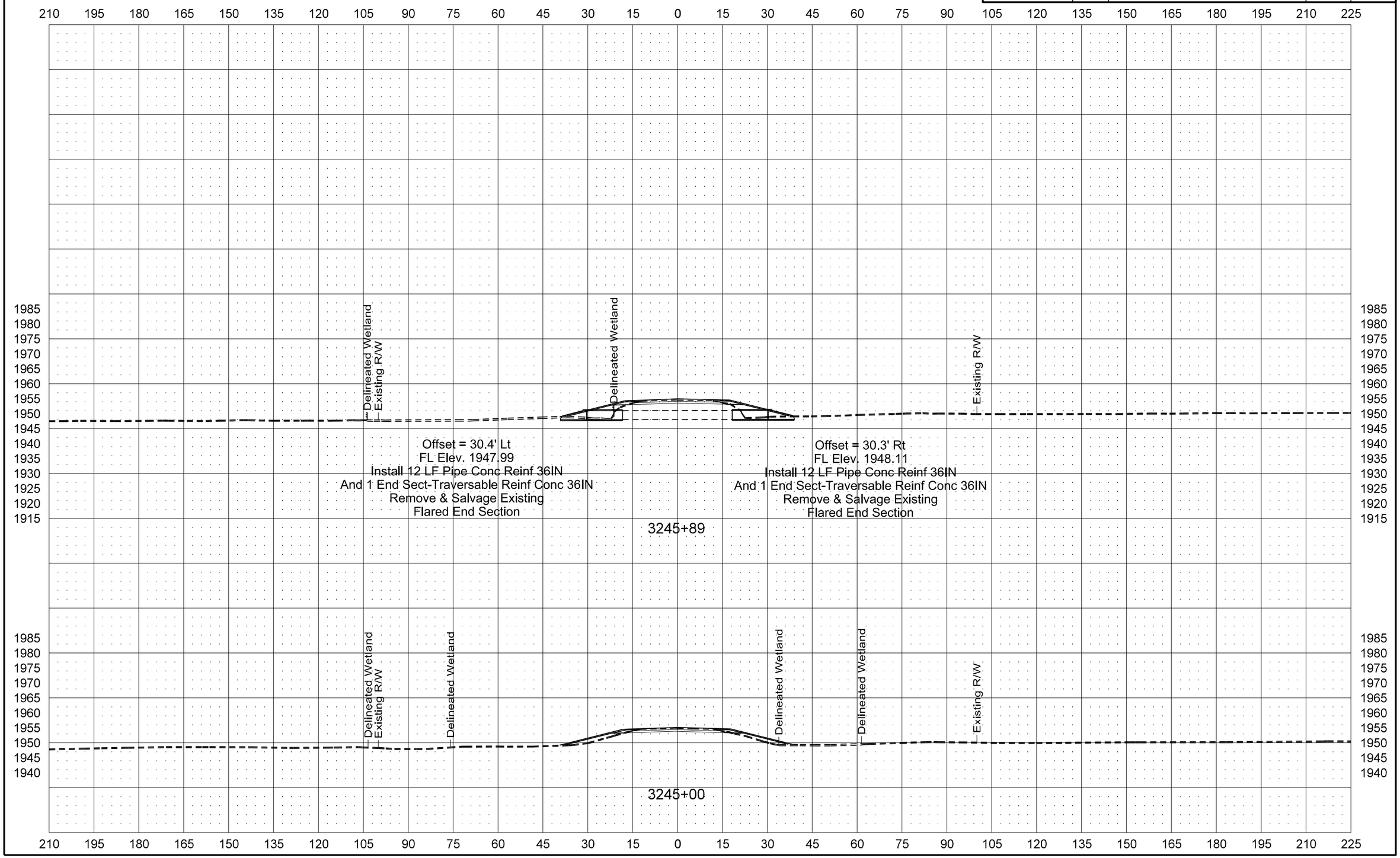

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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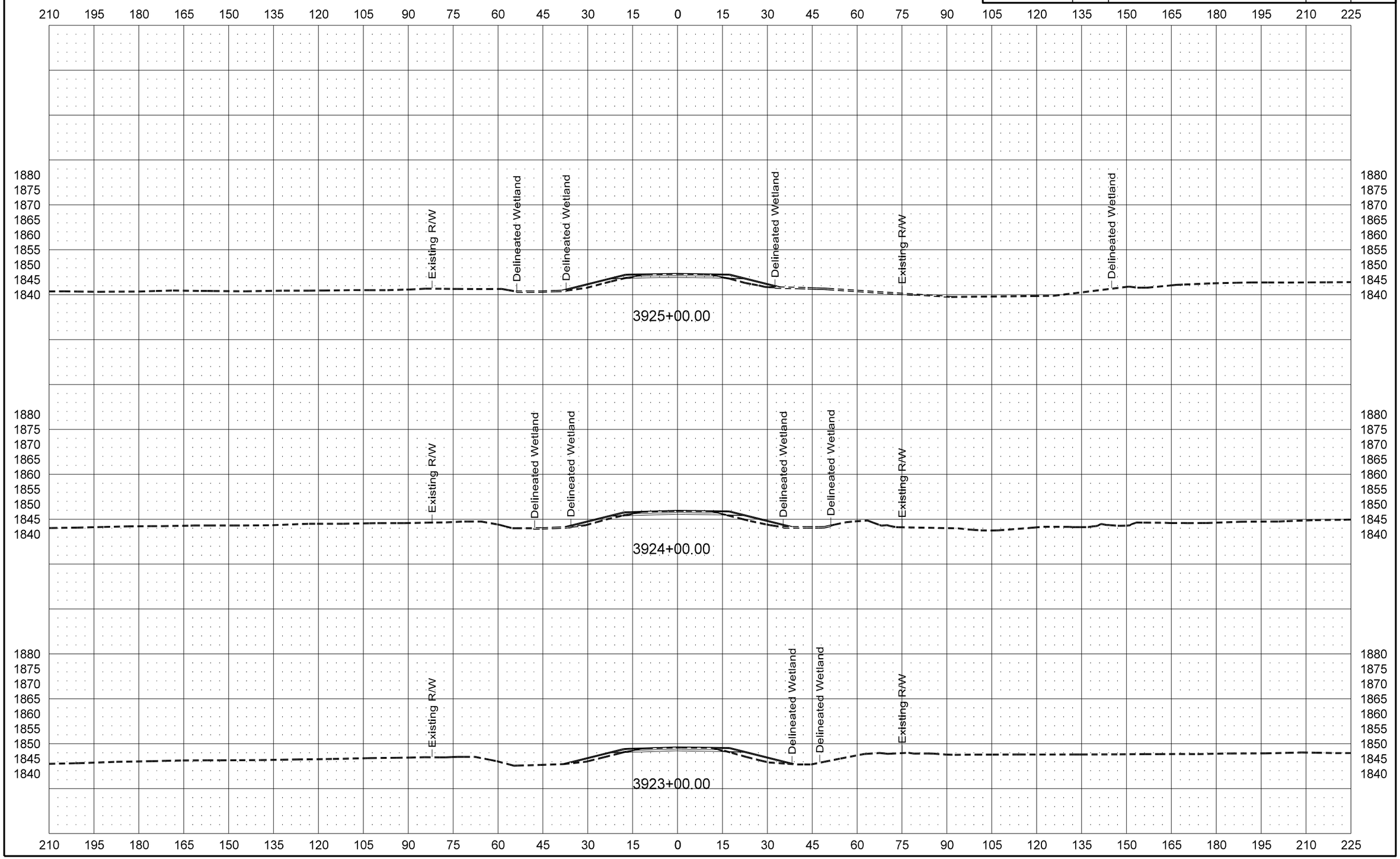

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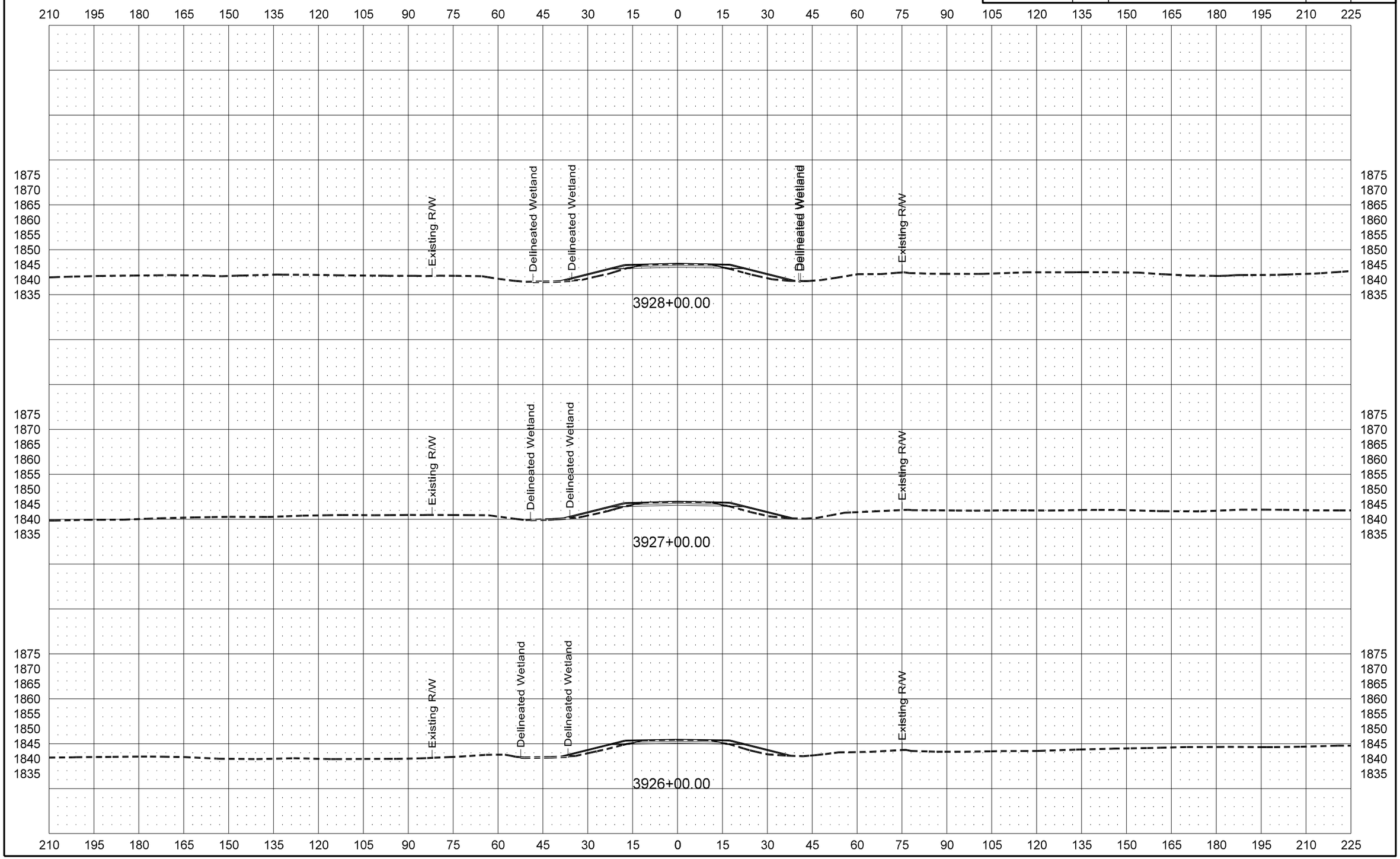

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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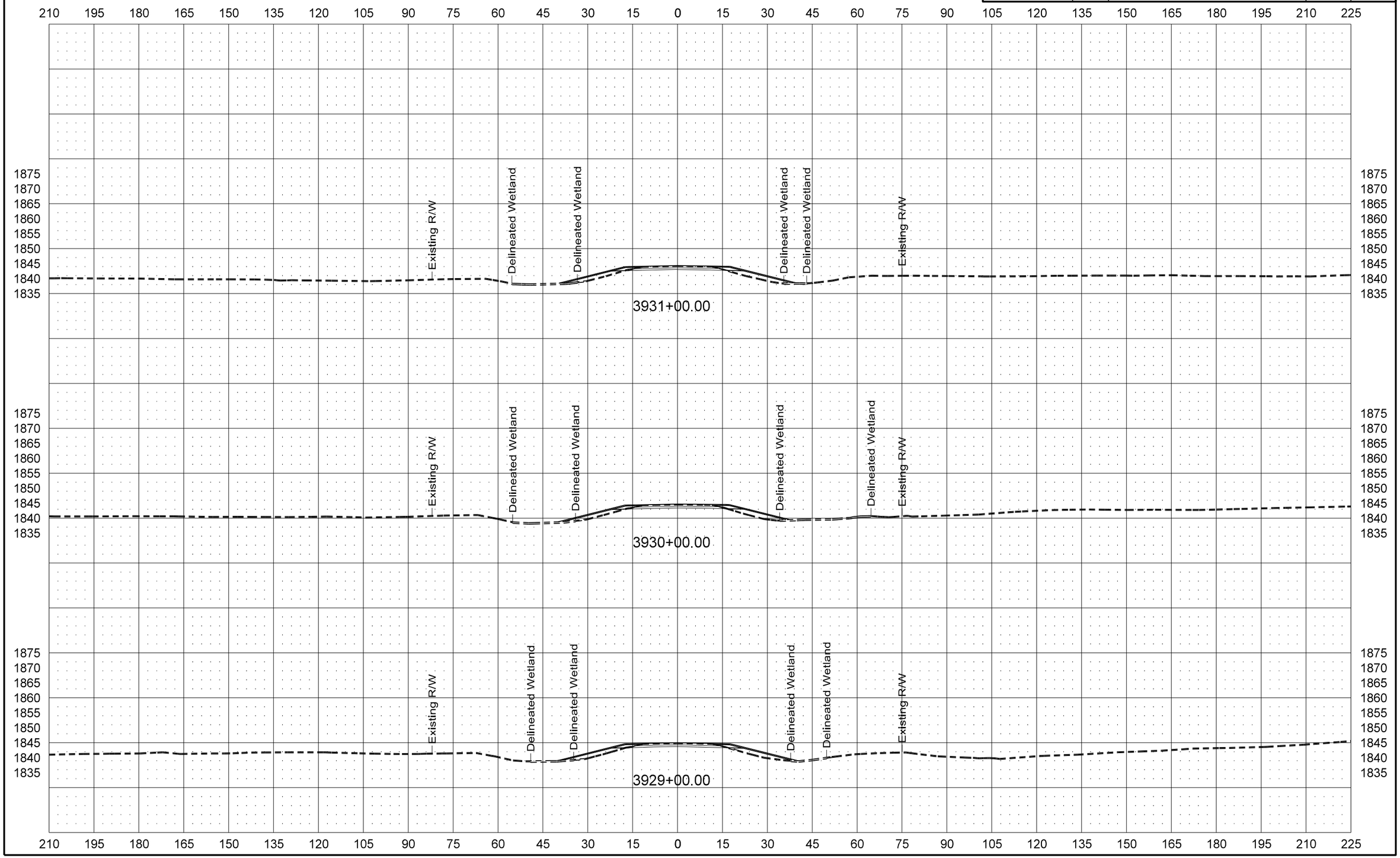

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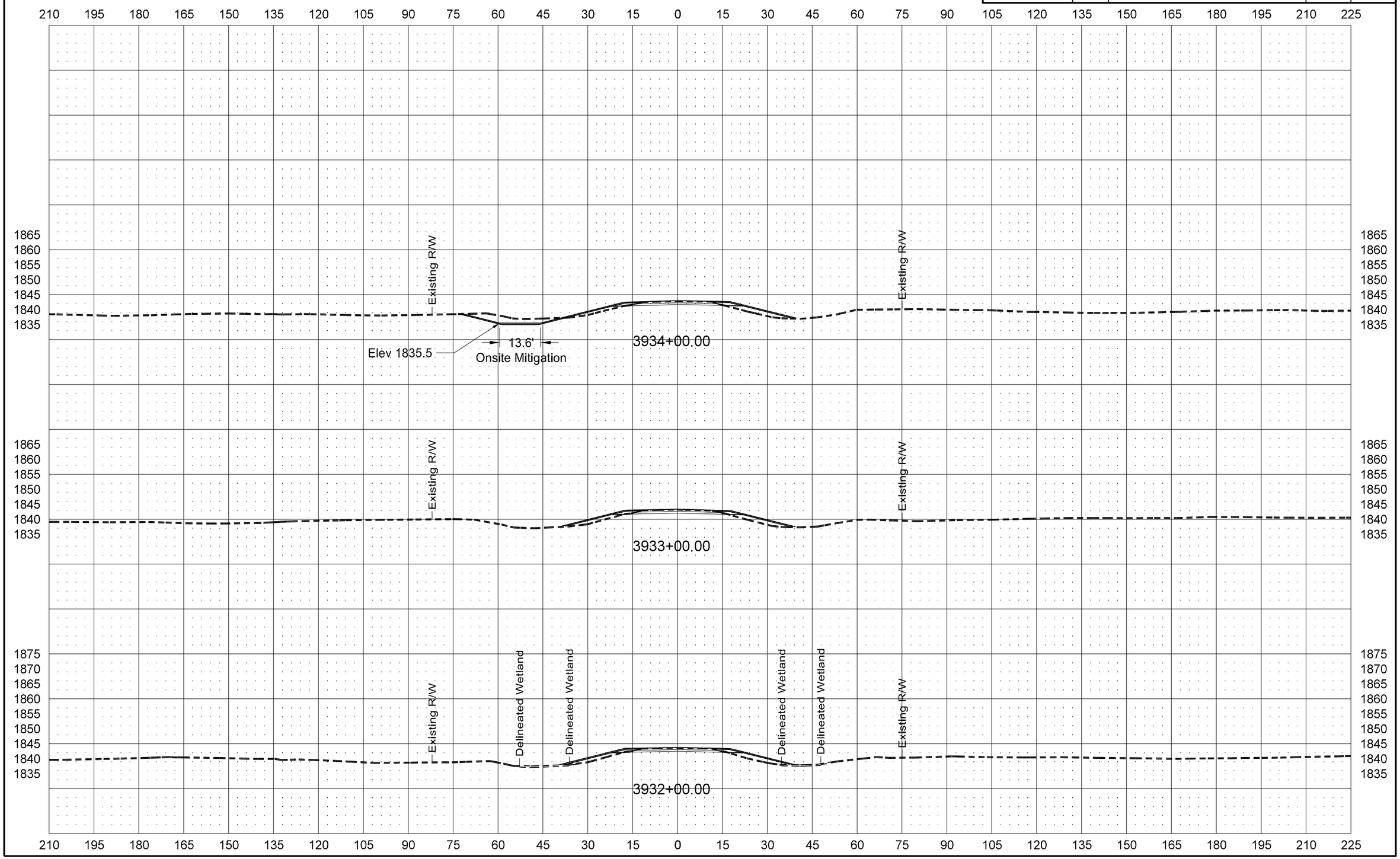

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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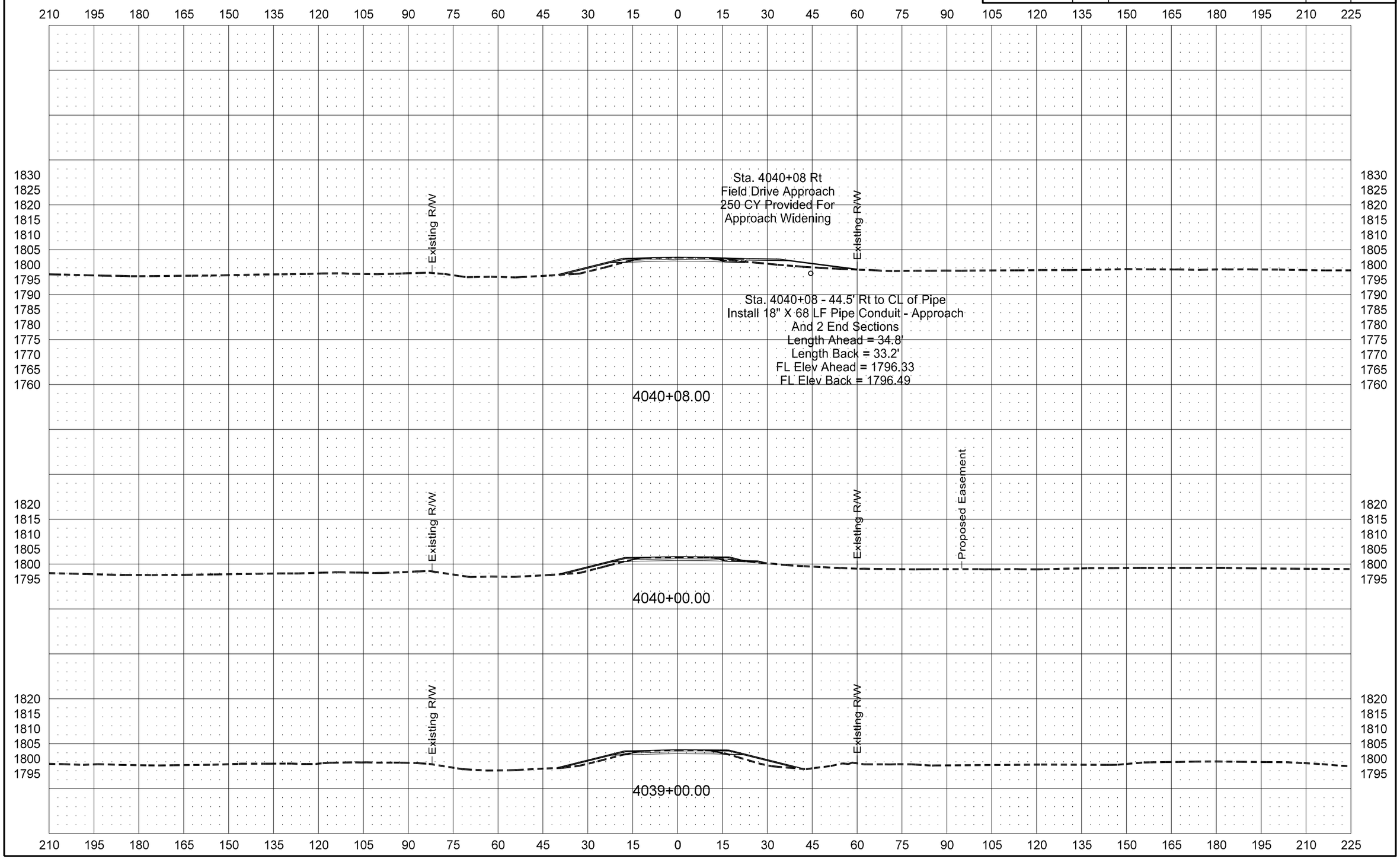

Revised 10/31/2014	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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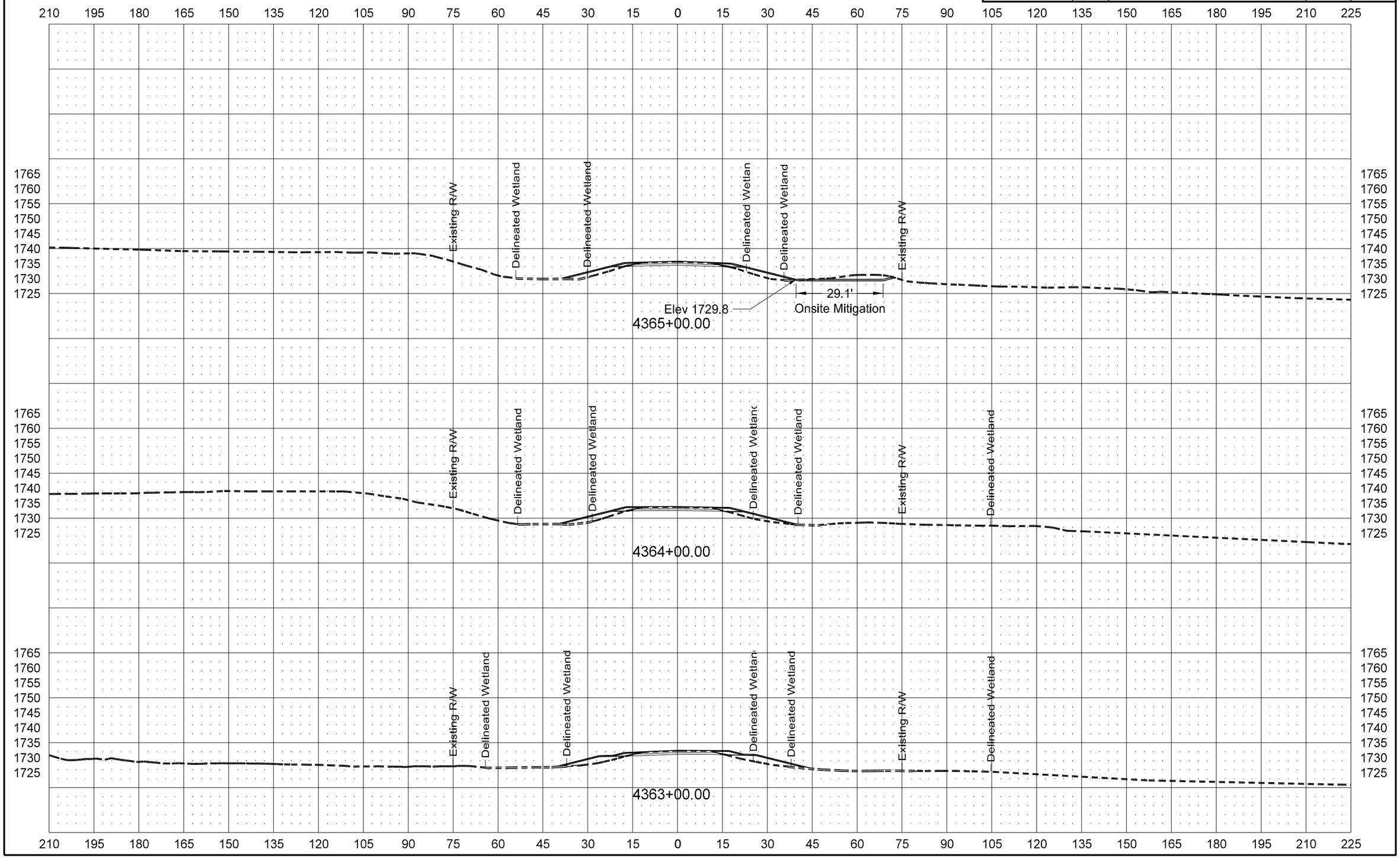
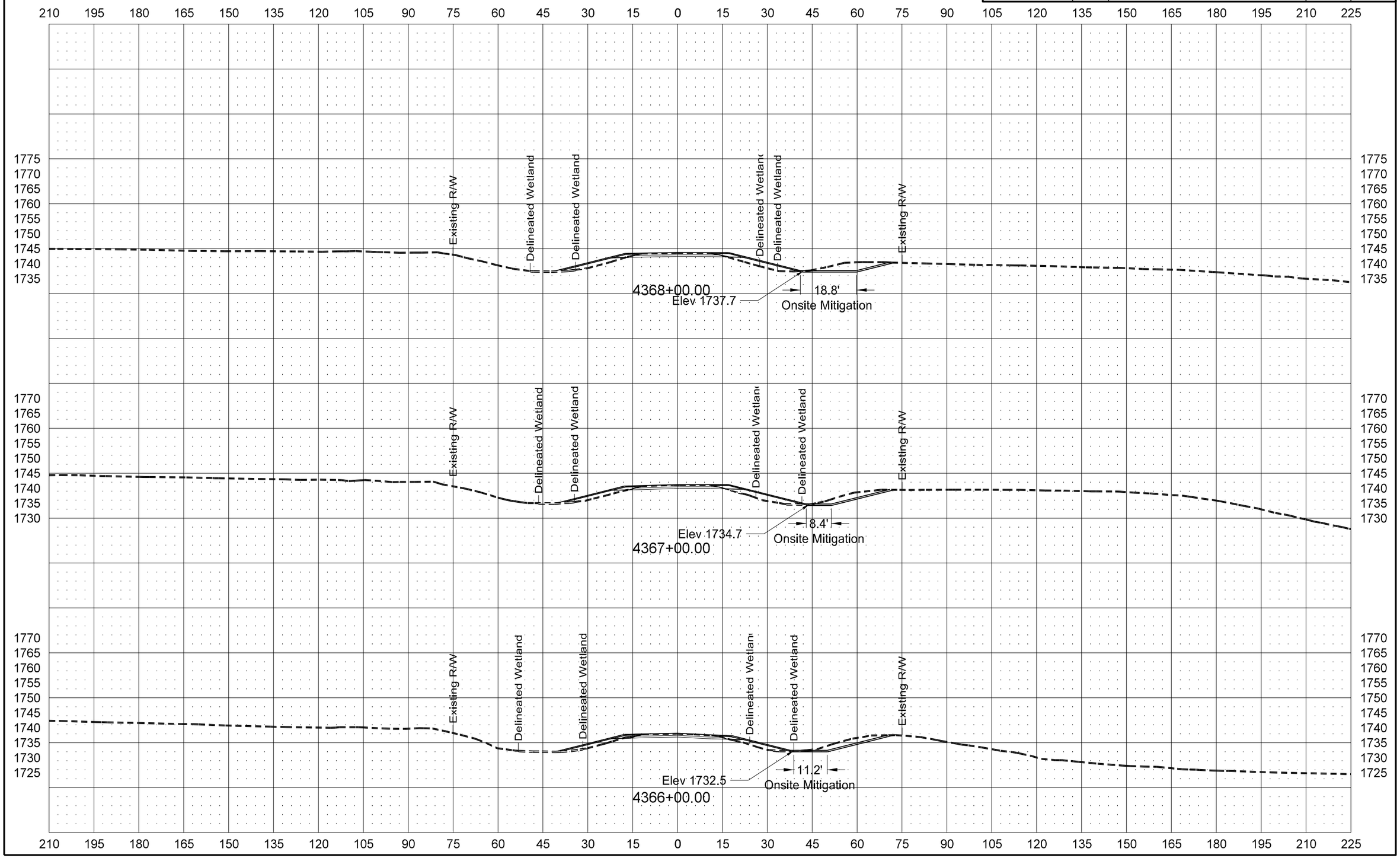
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