



North Dakota Department of Transportation

Thomas K. Sorel
Director

Doug Burgum
Governor

October 30, 2017

ADDENDUM 1 – JOB 15

TO: All prospective bidders on project NH-1-200(073)236 and NH-1-003(048)134, Job No. 15 scheduled for the November 17, 2017 bid opening.

The following plan revisions shall be made:

Plan Revisions for NH-1-200(073)236:

Remove and replace sheets 60-30, 75-1 thru 5, 75-20, 76-15, 77-15 and 82-19 with the enclosed sheets revised 10/27/2017.

Section 60 Sheet 30:

Removed Temporary Easement

Section 75 Sheets 1-5:

Updated the Wetland Impact Table

Section 75 Sheet 20:

Removed Temporary Easement

Section 76 Sheet 15:

Removed Temporary Easement

Section 77 Sheet 15:

Removed Temporary Easement

Section 82 Sheet 19:

Removed Temporary Easement

Plan Revisions for NH-1-003(048)134:

Remove and replace sheet 75-1 with the enclosed sheet revised 10/27/2017.

Section 75 Sheet 1:

Updated the Wetland Impact Table

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

A handwritten signature in black ink, appearing to read "Phillip Murdoff".

PHILLIP MURDOFF – CONSTRUCTION SERVICES ENGINEER

80:jwj

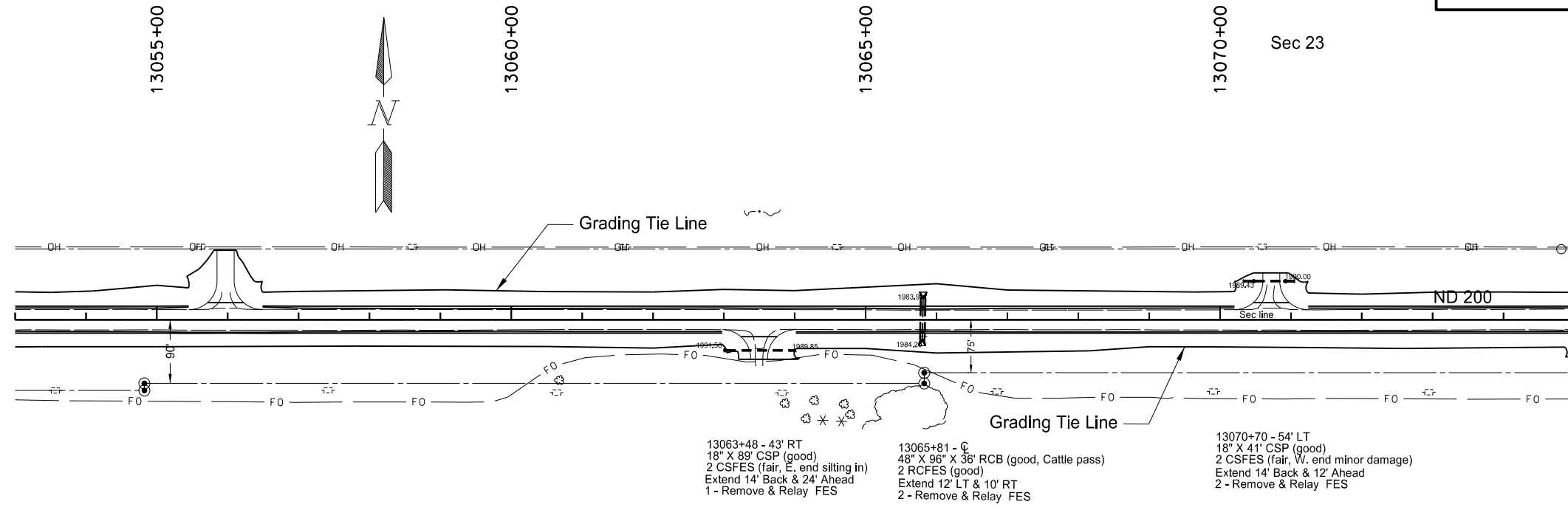
Enclosure

608 East Boulevard Avenue • Bismarck, North Dakota 58505-0700

Information: 1-855-NDROADS (1-855-637-6237) • FAX: (701) 328-0310 • TTY: 711 • dot.nd.gov

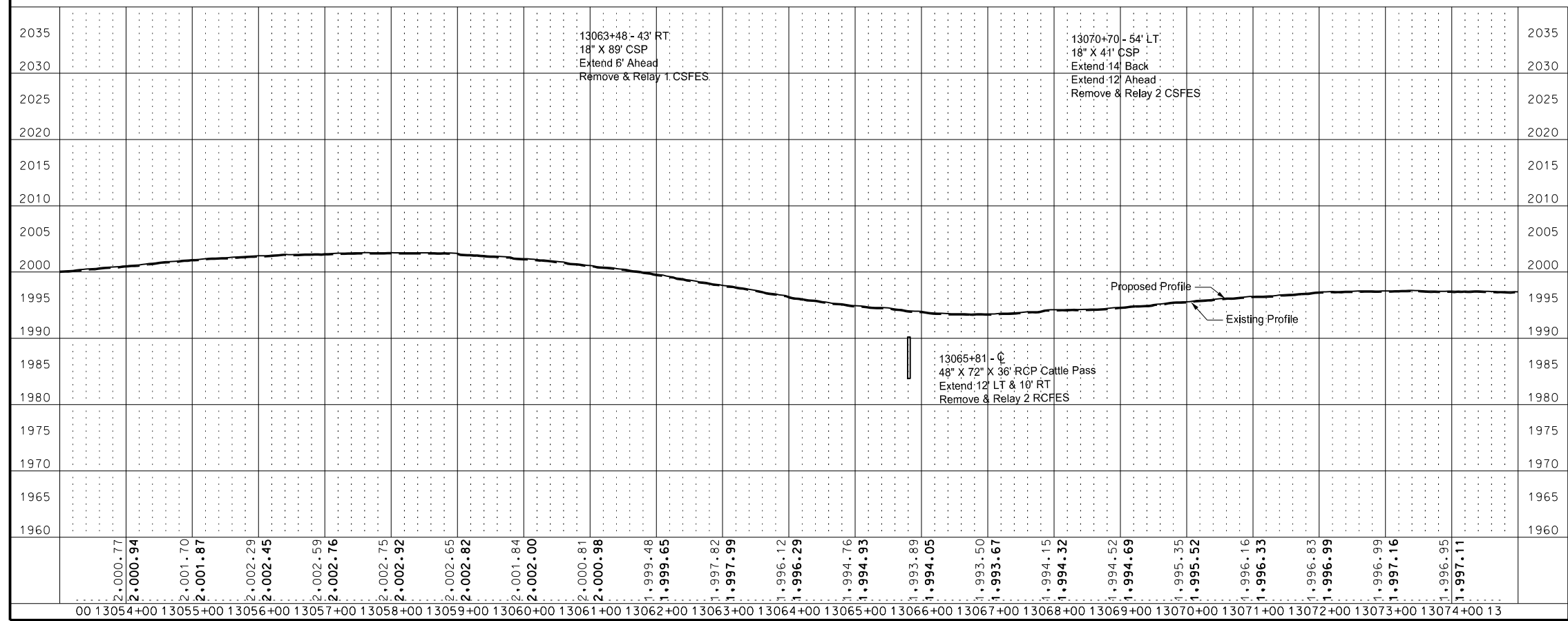
Revised	10/27/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NH-1-200(073)236	60	30

SPEC	CODE	BID ITEM	UNIT	QUANTITY
714	5015	PIPE CORR STEEL .064IN 18IN		
		13063+93 43' RT	LF	6
		13070+35 54' LT	LF	14
		13070+91 54' LT	LF	12
714	9200	Cattle Pass Conc Intermed Section		
		13065+81 LT	LF	12
		13065+81 RT	LF	10
714	9660	REMOVE & RELAY END SECTIONS-ALL TYPES & SIZES		
		13063+93 43' RT (APPROACH PIPE)	EA	1
		13065+81 LT & RT	EA	2
		13070+70 54' LT (APPROACH PIPE)	EA	2



- 13063+48 - 43' RT
18" X 89' CSP (good)
2 CSFES (fair, E. end silting in)
Extend 14' Back & 24' Ahead
1 - Remove & Relay FES
- 13065+81 - C
48" X 96" X 36' RCB (good, Cattle pass)
2 RCFES (good)
Extend 12' LT & 10' RT
2 - Remove & Relay FES
- 13070+70 - 54' LT
18" X 41' CSP (good)
2 CSFES (fair, W. end minor damage)
Extend 14' Back & 12' Ahead
2 - Remove & Relay FES

Sec 26



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Plan & Profile
 Sta 13054+00 to Sta 13074+00
 Sliver Grading, Milling, and RAP Overlay
 ND 200, Jct 14 E to W Jct 3

Wetland Impact Table																	
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands	Wetland Impacts Acre(s)		USFWS Easement Impacts Acre(s)		Wetland Mitigation								
					Temp.	Perm.	Temp.	Perm.	Mitigation Required			11990 Bank		Onsite			
									EO 11990	USACE	USFWS	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
1a	Sec. 4, T146N, R75W	Drainage	Natural	No	0.04	0.11	0	0	Y	N	N	Vollrath 16/17 Bank	0.11				
1b	Sec. 9, T146N, R75W	Drainage	Natural	No	0.01	0.02	0	0	Y	N	N	Vollrath 16/17 Bank	0.02				
2a	Sec. 4, T146N, R75W	Basin	Natural	No	0.22	0.17	0	0	Y	N	N	Vollrath 16/17 Bank	0.17				
2b	Sec. 9, T146N, R75W	Basin	Natural	No	0.15	0.22	0	0	Y	N	N	Vollrath 16/17 Bank	0.22				
3	Sec. 10, T146N, R75W	Ditch	Artificial	No	0.03	0.01	0	0	N	N	N						
4a	Sec. 3, T146N, R75W	Ditch	Artificial	No	0.23	0.03	0	0	N	N	N						
4b	Sec. 10, T146N, R75W	Ditch	Artificial	No	0.20	0.07	0	0	N	N	N						
4c	Sec. 11, T146N, R75W	Basin	Natural	No	0.08	0.18	0	0	Y	N	N	Vollrath 16/17 Bank	0.18				
5a	Sec. 2 & 11, T146N, R75W	Ditch	Artificial	No	0.26	0.05	0	0	N	N	N						
5b	Sec. 11, T146N, R75W	Basin	Natural	No	0.07	0.00	0	0	N	N	N						
6a	Sec. 11, T146N, R75W	Basin	Natural	No	0.23	0.06	0	0	Y	N	N	Vollrath 16/17 Bank	0.06				
6b	Sec. 11, T146N, R75W	Basin	Natural	No	0.11	0.03	0	0	Y	N	N	Vollrath 16/17 Bank	0.03				
7	Sec. 11, T146N, R75W	Ditch	Artificial	No	0.02	0.02	0	0	N	N	N						
8a	Sec. 2, T146N, R75W	Fringe	Natural	No	0.01	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
8c	Sec. 1, T146N, R75W	Fringe	Natural	No	0.02	0.00	0	0	N	N	N						
8d	Sec. 11 & 12, T146N, R75W	Basin	Natural	No	0.25	0.06	0	0	Y	N	N	Vollrath 16/17 Bank	0.06				
8e	Sec. 12, T146N, R75W	Ditch	Artificial	No	0.05	0.00	0	0	N	N	N						
10a	Sec. 1, T146N, R75W	Basin	Natural	No	0.15	0.19	0	0	Y	N	N	Vollrath 16/17 Bank	0.19				
10b	Sec. 12, T146N, R75W	Basin	Natural	No	0.17	0.18	0	0	Y	N	N	Vollrath 16/17 Bank	0.18				
10c	Sec. 12, T146N, R75W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
10d	Sec. 12, T146N, R75W	Ditch	Artificial	No	0.15	0.01	0	0	N	N	N						
10e	Sec. 12, T146N, R75W	Basin	Natural	No	0.15	0.09	0	0	Y	N	N	Vollrath 16/17 Bank	0.09				
10f	Sec. 7, T146N, R74W	Ditch	Artificial	No	0.04	0.01	0	0	N	N	N						
10g	Sec. 1, T146N, R75W	Basin	Natural	No	0.10	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
10h	Sec. 6, T146N, R74W	Ditch	Artificial	No	0.00	0.00	0	0	N	N	N						
11	Sec. 6, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
12a	Sec. 7, T146N, R74W	Ditch	Artificial	No	0.05	0.00	0	0	N	N	N						
12b	Sec. 7, T146N, R74W	Basin	Natural	No	0.15	0.08	0	0	Y	N	N	Vollrath 16/17 Bank	0.08				

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Wetland Impact Table
 Sliver Grading, Milling and RAP Overlay
 ND 200, Jct 14 E to W Jct 3

Wetland Impact Table																	
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands	Wetland Impacts Acre(s)		USFWS Easement Impacts Acre(s)		Wetland Mitigation								
					Temp.	Perm.	Temp.	Perm.	Mitigation Required			11990 Bank		Onsite			
									EO 11990	USACE	USFWS	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
12c	Sec. 6, T146N, R74W	Ditch	Artificial	No	0.10	0.04	0	0	N	N	N						
12d	Sec. 6, T146N, R74W	Ditch	Artificial	No	0.07	0.05	0	0	N	N	N						
13	Sec. 6, T146N, R74W	Ditch	Artificial	No	0.02	0.00	0	0	N	N	N						
14	Sec. 7, T146N, R74W	Ditch	Artificial	No	0.06	0.30	0	0	N	N	N						
15	Sec. 7, T146N, R74W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
16	Sec. 6, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
17a	Sec. 6, T146N, R74W	Basin	Natural	No	0.11	0.06	0	0	Y	N	N	Vollrath 16/17 Bank	0.06				
17b	Sec. 7, T146N, R74W	Basin	Natural	No	0.15	0.04	0	0	Y	N	N	Vollrath 16/17 Bank	0.04				
17c	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.07	0.01	0	0	N	N	N						
18	Sec. 5, T146N, R74W	Ditch	Artificial	No	0.09	0.02	0	0	N	N	N						
19a	Sec. 5, T146N, R74W	Ditch	Artificial	No	0.09	0.03	0	0	N	N	N						
19b	Sec. 5, T146N, R74W	Basin	Natural	No	0.13	0.00	0	0	N	N	N						
19c	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.00	0.00	0	0	N	N	N						
20	Sec. 5, T146N, R74W	Ditch	Artificial	No	0.03	0.00	0	0	N	N	N						
21	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
22a	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.25	0.10	0	0	N	N	N						
22b	Sec. 8, T146N, R74W	Basin	Natural	No	0.06	0.04	0	0	Y	N	N	Vollrath 16/17 Bank	0.04				
22c	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.06	0.01	0	0	N	N	N						
23	Sec. 5, T146N, R74W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
24a	Sec. 8, T146N, R74W	Basin	Natural	No	0.14	0.46	0	0	Y	N	N	Vollrath 16/17 Bank	0.46				
24b	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.04	0.12	0	0	N	N	N						
25a	Sec. 9, T146N, R74W	Ditch	Artificial	No	0.15	0.00	0	0	N	N	N						
25b	Sec. 9, T146N, R74W	Ditch	Artificial	No	0.06	0.00	0	0	N	N	N						
26a	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.08	0.02	0	0	N	N	N						
26b	Sec. 9, T146N, R74W	Basin	Natural	No	0.10	0.05	0	0	Y	N	N	Vollrath 16/17 Bank	0.05				
27a	Sec. 8, T146N, R74W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
27b	Sec. 8, T146N, R74W	Basin	Natural	No	0.01	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
28	Sec. 9, T146N, R74W	Basin	Natural	No	0.05	0.00	0	0	N	N	N						

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 ND 200, Jct 14 E to W Jct 3

Wetland Impact Table																	
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands	Wetland Impacts Acre(s)		USFWS Easement Impacts Acre(s)		Wetland Mitigation								
					Temp.	Perm.	Temp.	Perm.	Mitigation Required			11990 Bank		Onsite			
									EO 11990	USACE	USFWS	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
29	Sec. 8, T146N, R74W	Basin	Natural	No	0.03	0.03	0	0	Y	N	N	Vollrath 16/17 Bank	0.03				
30a	Sec. 9, T146N, R74W	Basin	Natural	No	0.08	0.00	0	0	N	N	N						
30b	Sec. 8, T146N, R74W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
32	Sec. 17, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
33	Sec. 17, T146N, R74W	Ditch	Artificial	No	0.03	0.01	0	0	N	N	N						
34a	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
34b	Sec. 21, T146N, R74W	Basin	Natural	No	0.18	0.09	0	0	Y	N	N	Vollrath 16/17 Bank	0.09				
34c	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.03	0.01	0	0	N	N	N						
34d	Sec. 20, T146N, R74W	Basin	Natural	No	0.20	0.08	0	0	Y	N	N	Vollrath 16/17 Bank	0.08				
34e	Sec. 20, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
35	Sec. 21, T146N, R74W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
36a	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
36b	Sec. 21, T146N, R74W	Basin	Natural	No	0.16	0.11	0	0	Y	N	N	Vollrath 16/17 Bank	0.11				
36c	Sec. 20, T146N, R74W	Basin	Artificial	No	0.11	0.04	0	0	N	N	N						
37a	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.01	0.03	0	0	N	N	N						
37b	Sec. 21, T146N, R74W	Basin	Natural	No	0.07	0.63	0	0	Y	N	N	Vollrath 16/17 Bank	0.63				
37c	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.04	0.00	0	0	N	N	N						
37d	Sec. 21, T146N, R74W	Basin	Natural	No	0.04	0.00	0	0	N	N	N						
37e	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.14	0.00	0	0	N	N	N						
38	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
39	Sec. 28, T146N, R74W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
40a	Sec. 21, T146N, R74W	Basin	Natural	No	0.01	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
40c	Sec. 21, T146N, R74W	Basin	Natural	No	0.01	0.00	0	0	N	N	N						
40d	Sec. 21, T146N, R74W	Ditch	Artificial	No	0.02	0.00	0	0	N	N	N						
40e	Sec. 28, T146N, R74W	Basin	Natural	No	0.15	0.08	0	0	Y	N	N	Vollrath 16/17 Bank	0.08				
40f	Sec. 28, T146N, R74W	Ditch	Artificial	No	0.02	0.00	0	0	N	N	N						
41	Sec. 22, T146N, R74W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
42	Sec. 27, T146N, R74W	Basin	Natural	No	0.10	0.06	0	0	Y	N	N	Vollrath 16/17 Bank	0.06				

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 ND 200, Jct 14 E to W Jct 3

Wetland Impact Table																	
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands	Wetland Impacts Acre(s)		USFWS Easement Impacts Acre(s)		Wetland Mitigation								
					Temp.	Perm.	Temp.	Perm.	Mitigation Required			11990 Bank		Onsite			
									EO 11990	USACE	USFWS	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
43	Sec. 22, T146N, R74W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
44a	Sec. 22, T146N, R74W	Basin	Natural	No	0.10	0.03	0	0	Y	N	N	Vollrath 16/17 Bank	0.03				
44b	Sec. 23, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
44c	Sec. 27, T146N, R74W	Basin	Natural	No	0.06	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
44d	Sec. 26, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
45a	Sec. 23, T146N, R74W	Basin	Natural	No	0.04	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
45b	Sec. 26, T146N, R74W	Ditch	Artificial	No	0.01	0.01	0	0	N	N	N						
46	Sec. 26, T146N, R74W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
47	Sec. 24, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
48a	Sec. 24, T146N, R74W	Basin	Natural	No	0.06	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
48b	Sec. 25, T146N, R74W	Ditch	Artificial	No	0.06	0.00	0	0	N	N	N						
49	Sec. 25, T146N, R74W	Ditch	Artificial	No	0.02	0.01	0	0	N	N	N						
50a	Sec. 24, T146N, R74W	Basin	Natural	No	0.07	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
50b	Sec. 25, T146N, R74W	Basin	Natural	No	0.12	0.02	0	0	Y	N	N	Vollrath 16/17 Bank	0.02				
51	Sec. 24, T146N, R74W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
52a	Sec. 24, T146N, R74W	Ditch	Artificial	Yes	0.01	0.00	0	0	N	N	N						
52b	Sec. 19, T146N, R73W	Basin	Natural	Yes	0.04	0.01	0	0	Y	N	N	Vollrath 16/17 Bank	0.01				
52c	Sec. 30, T146N, R73W	Ditch	Artificial	Yes	0.03	0.00	0	0	N	N	N						
53	Sec. 30, T146N, R73W	Basin	Natural	No	0.04	0.00	0	0	N	N	N						
54a	Sec. 19 & 30, T146N, R73W	Basin	Natural	Yes	0.06	0.00	0	0	N	N	N						
54b	Sec. 30, T146N, R73W	Ditch	Artificial	Yes	0.00	0.00	0	0	N	N	N						
54c	Sec. 29, T146N, R73W	Basin	Natural	Yes	0.00	0.00	0	0	N	N	N						
54d	Sec. 29, T146N, R73W	Ditch	Artificial	Yes	0.00	0.00	0	0	N	N	N						
54f	Sec. 29, T146N, R73W	Ditch	Artificial	Yes	0.00	0.00	0	0	N	N	N						
54g	Sec. 29, T146N, R73W	Ditch	Artificial	Yes	0.00	0.00	0	0	N	N	N						
54i	Sec. 30, T146N, R73W	Ditch	Artificial	Yes	0.00	0.00	0	0	N	N	N						
54h	Sec. 29, T146N, R73W	Ditch	Artificial	Yes	0.00	0.00	0	0	N	N	N						
56	Sec. 29, T146N, R73W	Ditch	Artificial	No	0.07	0.06	0	0	N	N	N						

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Wetland Impact Table																	
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands ¹	Wetland Impacts Acre(s)		USFWS Easement Impacts Acre(s)		Wetland Mitigation								
					Temp.	Perm.	Temp.	Perm.	Mitigation Required			11990 Bank		Onsite			Constructed Size Acre(s)
									EO 11990	USACE	USFWS	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	
57a	Sec. 20, T146N, R73W	Ditch	Artificial	No	0.00	0.00	0	0	N	N	N						
57b	Sec. 29, T146N, R73W	Ditch	Artificial	No	0.05	0.01	0	0	N	N	N						
58	Sec. 29, T146N, R73W	Ditch	Artificial	Yes	0.01	0.01	0	0	N	N	N						
59a	Sec. 21, T146N, R73W	Basin	Natural	Yes	0.14	0.02	0	0	Y	N	N	Vollrath 16/17 Bank	0.02				
59b	Sec. 28, T146N, R73W	Basin	Natural	Yes	0.14	0.04	0	0	Y	N	N	Vollrath 16/17 Bank	0.04				
60a	Sec. 21, T146N, R73W	Basin	Natural	Yes	0.03	0.00	0	0	N	N	N						
60b	Sec. 28, T146N, R73W	Basin	Natural	Yes	0.06	0.00	0	0	N	N	N						
61a	Sec. 21, T146N, R73W	Ditch	Artificial	No	0.03	0.00	0	0	N	N	N						
61b	Sec. 28, T146N, R73W	Ditch	Artificial	No	0.01	0.00	0	0	N	N	N						
62	Sec. 28, T146N, R73W	Ditch	Artificial	No	0.03	0.01	0	0	N	N	N						
63a	Sec. 21, T146N, R73W	Basin	Natural	Yes	0.00	0.00	0	0	N	N	N						
63b	Sec. 21, T146N, R73W	Basin	Natural	Yes	0.00	0.00	0	0	N	N	N						
63c	Sec. 28, T146N, R73W	Basin	Natural	No	0.00	0.00	0	0	N	N	N						
Totals					7.80	4.48	0.00	0.00					3.32		0.00		0.00

Other Waters Impact Table																
Number	Location	Type	Other Waters				USACE Jurisdictional	Impacts to Other Waters				Other Water Mitigation				
			Size		Feature	Acre(s)		Linear Feet		Mitigation Required			Mitigation Location; ratio	Method		
			Acre(s)	Linear Feet		Temp		Perm	Temp	Perm	EO 11990	USACE			USFWS	
OW8b	Sec. 1 & 2, T146N, R75W	-	2.11		Lake	No	0.16	0.00	10.00	16.00	N	N	N			
OW30c	Sec. 8, T146N, R74W	-	0.66		Lake	No	0.10	0.04	10.00	11.00	N	N	N			
OW40b	Sec. 21, T146N, R74W	-	0.67		Lake	No	0.11	0.00	58.00	0.00	N	N	N			
OW54e	Sec. 29, T146N, R73W	-	1.56		Lake	Yes	0.00	0.00	0.00	0.00	N	N	N			
Totals			5.00				0.37	0.04	78.00	27.00						

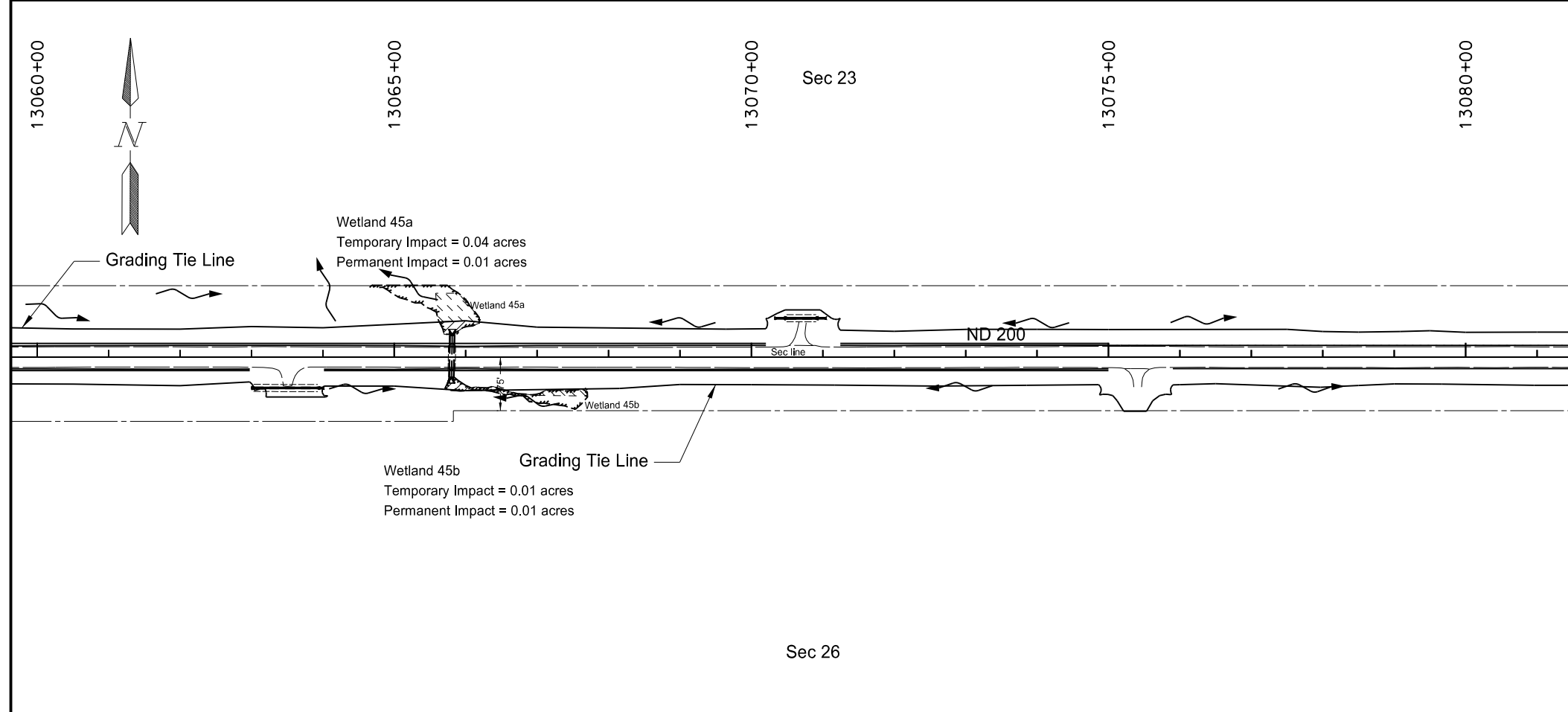
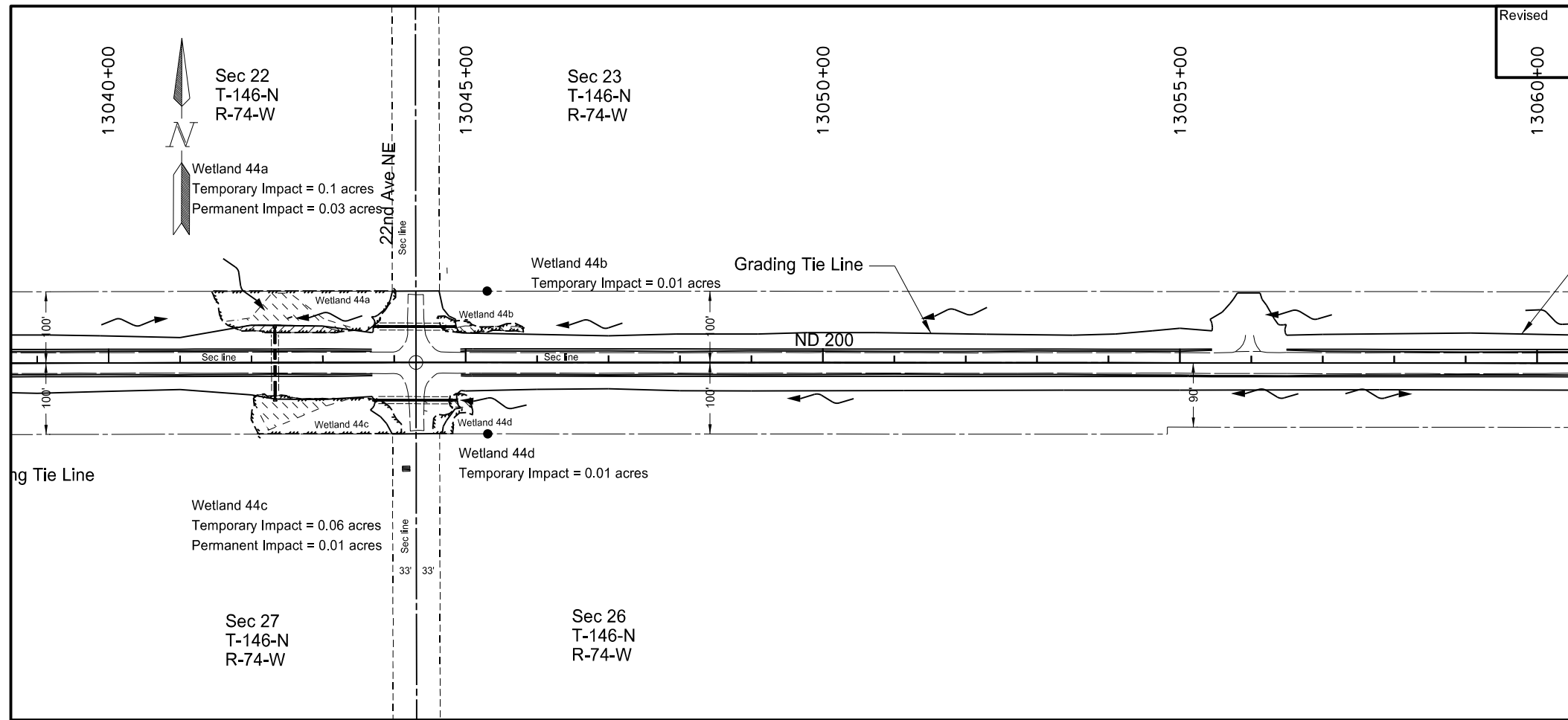
¹ A wetland Jurisdictional Determination was issued by the USACE on 12/29/2016; NWO-2010-2737-BIS.





Impact Summary Table			
Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	Total (Acres)	Wetland Type	Total (Acres/Lf)
Natural/JD	0.07	Temporary JD	0.52
Natural/Non-JD	3.25	Non-JD Temporary	7.28
Artificial/JD	0.01	Permanent JD > 0.10	0.00
Artificial/Non-JD	1.15	Permanent OW	0.04
Total	4.48	Temporary OW	0.37

Mitigation Summary Table					
EO 11990 Only	Location	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
	Vollrath 16/17 Bank	N/A	3.32	N/A	N/A
	Total	0.00	3.32	0.00	0.00

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Wetland Impact Table
Sliver Grading, Milling and RAP Overlay
ND 200, Jct 14 E to W Jct 3



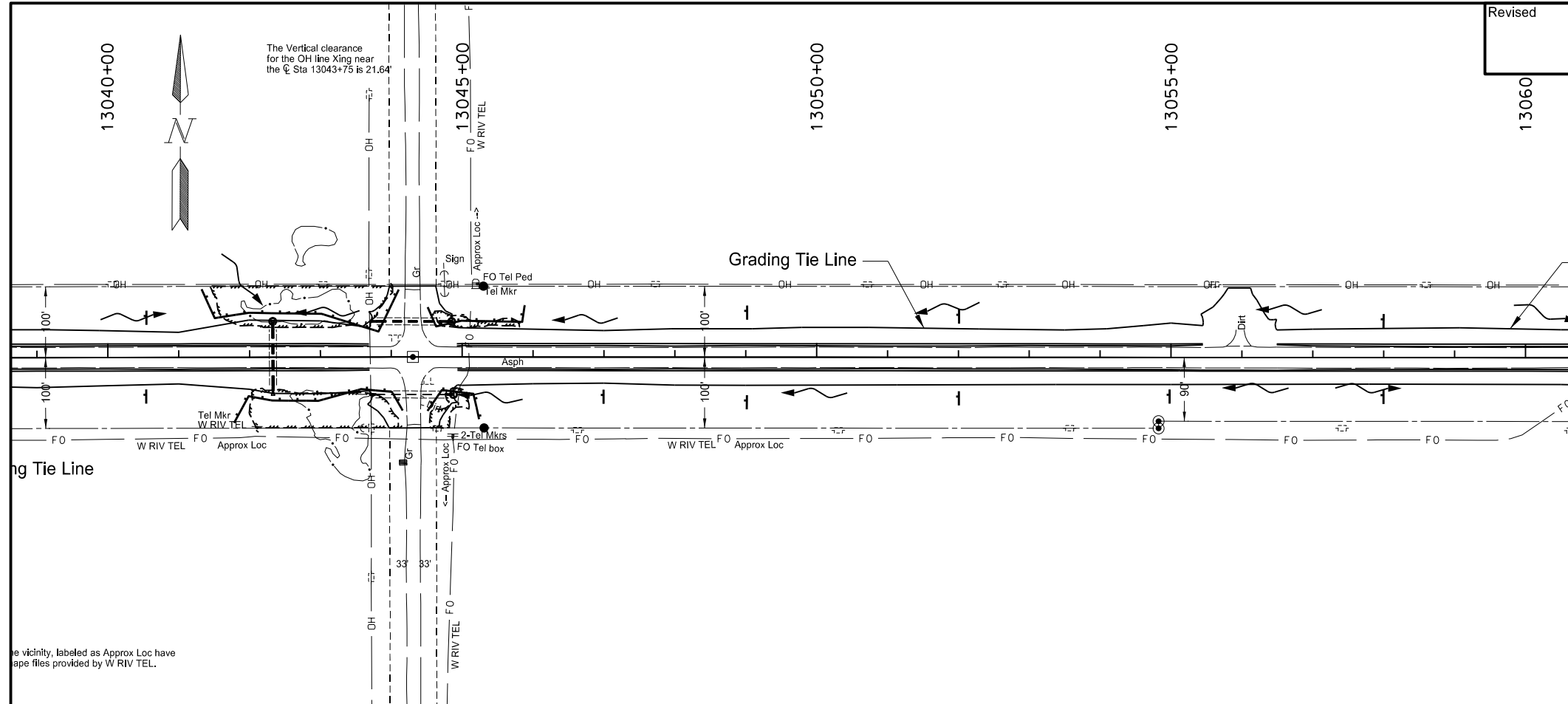
-  Temporary Wetland Impact
-  Permanent Wetland Impact
-  Temporary Other Waters Impact
-  Permanent Other Waters Impact

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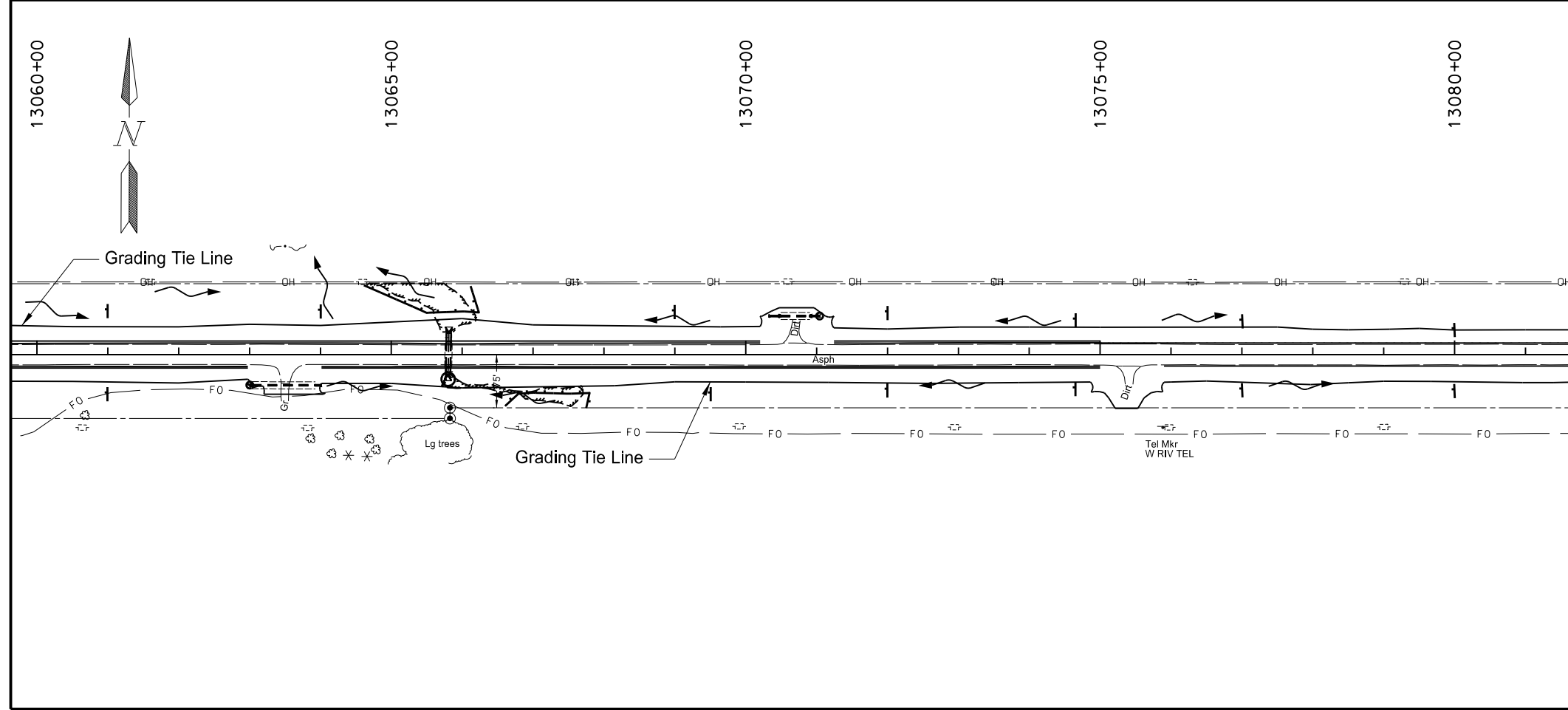
Wetland Impacts

Sliver Grading, Milling and RAP Overlay

ND 200, Jct 14 E to W Jct 61



Spec	Code	Description	Quantity
261	0112	Fiber Rolls 12IN	1925 LF
261	0113	Remove Fiber Rolls 12IN	1925 LF



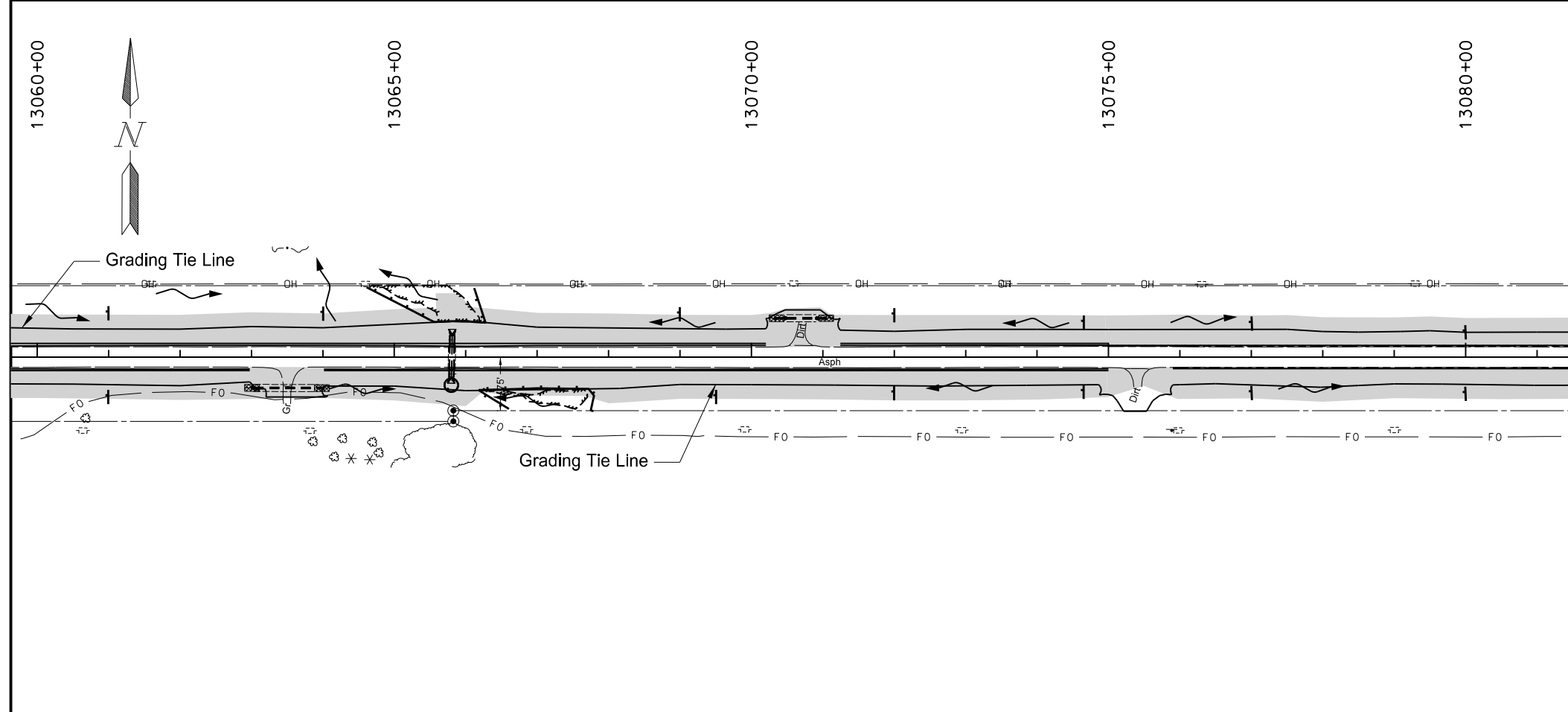
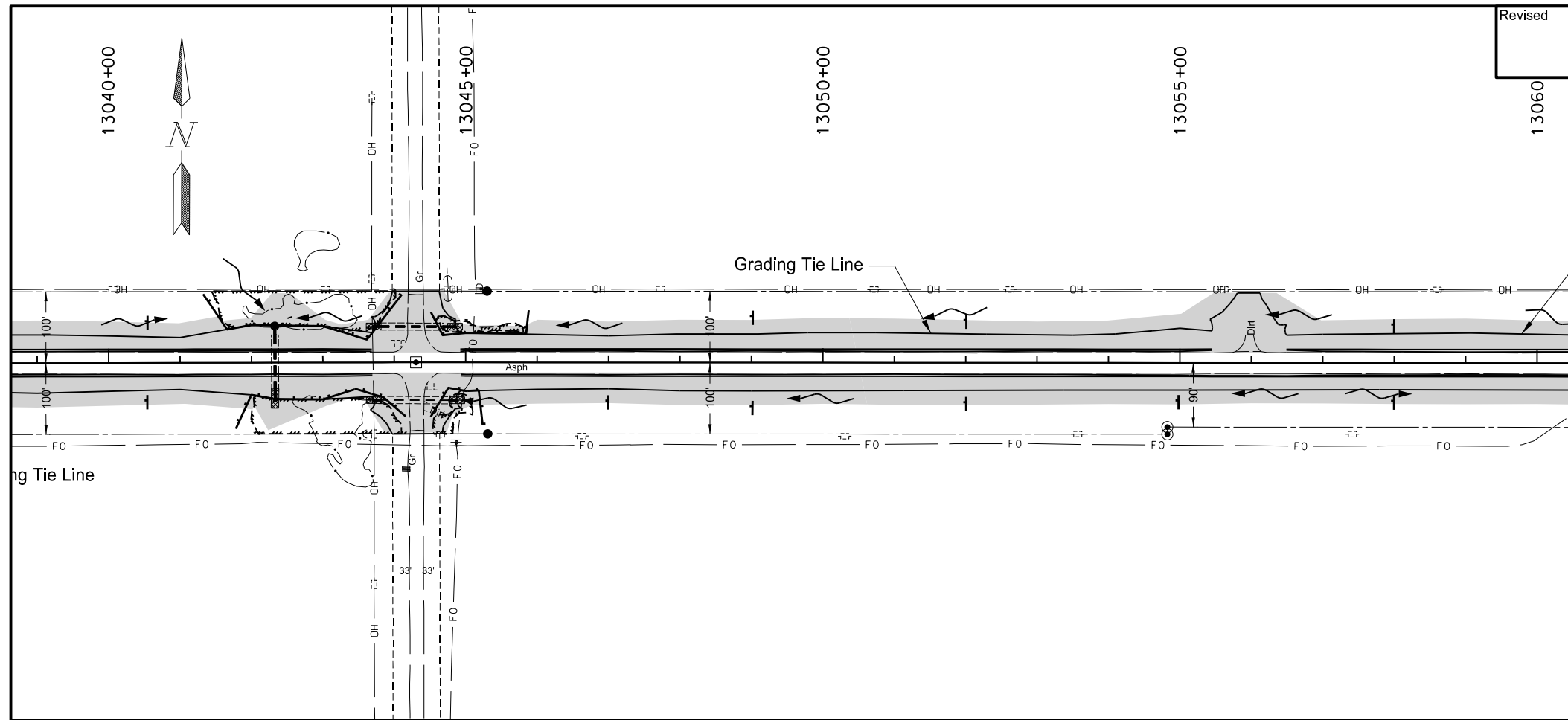
Fiber Rolls 12 IN
 Flotation Silt Curtain

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Temporary Erosion Control

 Sliver Grading, Milling and RAP Overlay

 ND 200, Jct 14 E to W Jct 3



Spec	Code	Description	Quantity
251	0200	Seeding Class II	9.21 ACRE
255	0102	ECB Type 2	196.00 SY
261	0112	Fiber Rolls 12IN	2000 LF

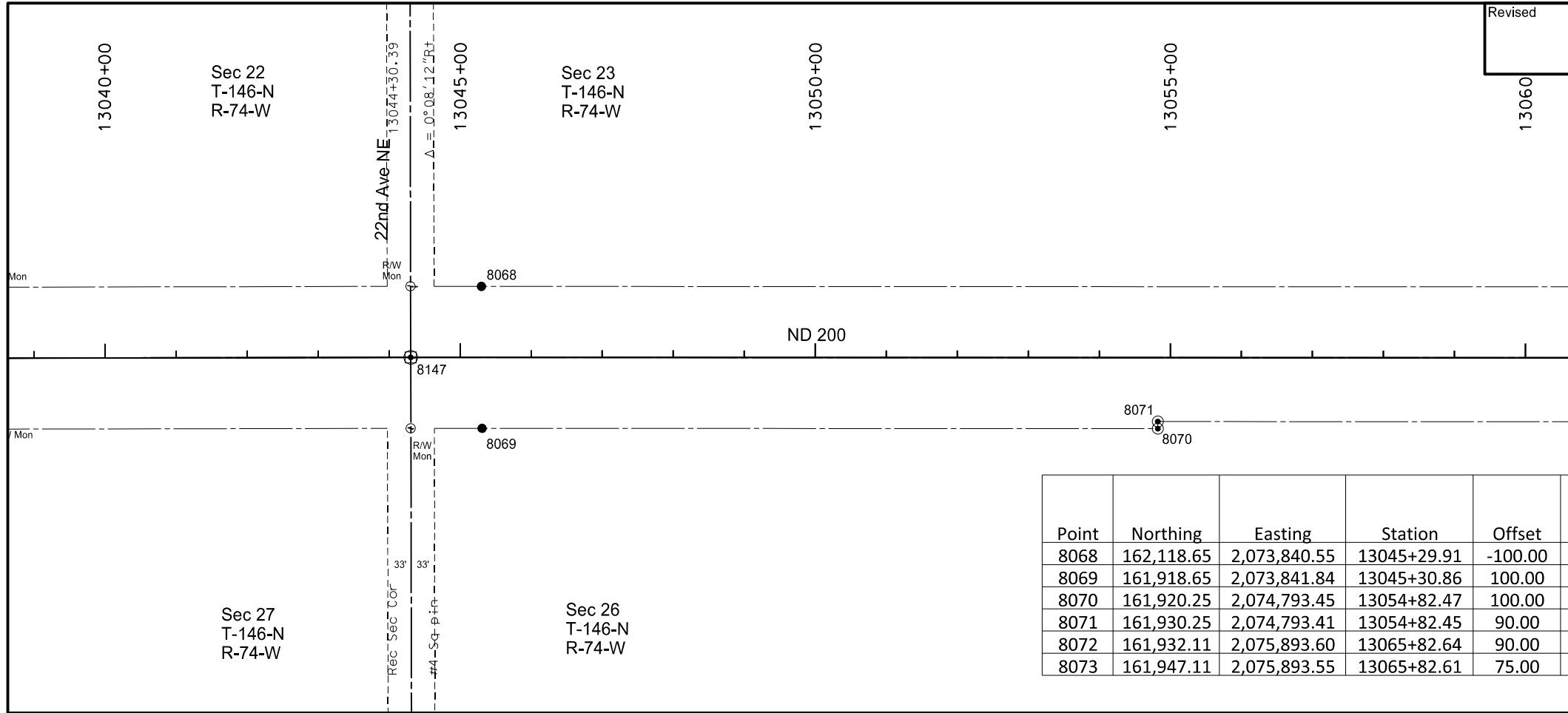
-  Seeding Class II
-  ECB Type 2
-  Fiber Rolls 12 IN

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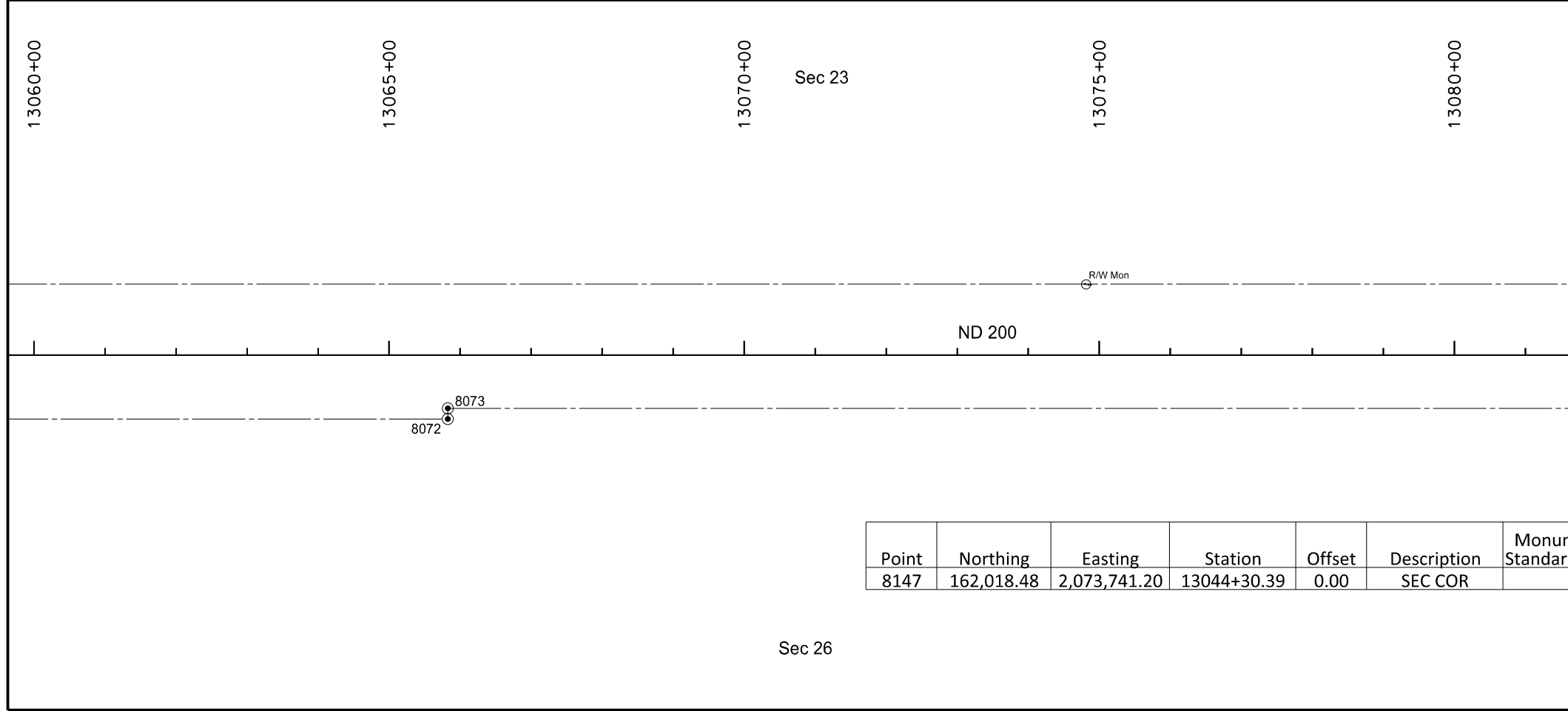
Permanent Erosion Control

Sliver Grading, Milling and RAP Overlay

ND 200, Jct 14 E to W Jct 3



Point	Northing	Easting	Station	Offset	Iron Pin R/W Monument	R/W Marker (witness post)	Iron Pin Reference Monument
8068	162,118.65	2,073,840.55	13045+29.91	-100.00		X	X
8069	161,918.65	2,073,841.84	13045+30.86	100.00		X	X
8070	161,920.25	2,074,793.45	13054+82.47	100.00	X	X	
8071	161,930.25	2,074,793.41	13054+82.45	90.00	X	X	
8072	161,932.11	2,075,893.60	13065+82.64	90.00	X	X	
8073	161,947.11	2,075,893.55	13065+82.61	75.00	X	X	



Point	Northing	Easting	Station	Offset	Description	Monument per Standard D-720-1
8147	162,018.48	2,073,741.20	13044+30.39	0.00	SEC COR	X

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Survey Data
 Right of Way Markers and Monuments & Alignment Monuments
 Sliver Grading, Milling and RAP Overlay
 ND 200, Jct 14 E to W Jct 3

PCN 21509 Wetland Impact Table																	
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands	Wetland Impacts				Wetland Mitigation								
					Wetland Impacts		USFWS Easement Impacts		Mitigation Required			11990 Bank		Onsite			
					Temp.	Perm.	Temp.	Perm.	EO 11990	USACE	USFWS	Location	Acres(s)	Mitigation Location; Ratio	Acres(s)	Constructed Site #	Constructed Size
1a	Sec. 22, T146N, R73W	Basin	Natural	Yes	0	0	0	0	N	N	N						
1b	Sec. 27, T146N, R73W	Basin	Natural	Yes	0	0	0	0	N	N	N						
2a	Sec. 22, T146N, R73W	Ditch	Artificial	No	0.01	0	0	0	N	N	N						
2b	Sec. 27, T146N, R73W	Basin	Artificial	No	0.03	0	0	0	N	N	N						
3a	Sec. 22, T146N, R73W	Basin	Natural	No	0.01	0	0	0	N	N	N						
3b	Sec. 22, T146N, R73W	Basin	Natural	No	0	0	0	0	N	N	N						
3c	Sec. 22, T146N, R73W	Ditch	Artificial	No	0.01	0	0	0	N	N	N						
4a	Sec. 23, T146N, R73W	Ditch	Artificial	No	0	0	0	0	N	N	N						
4d	Sec. 26, T146N, R73W	Ditch	Artificial	No	0	0	0	0	N	N	N						
4e	Sec. 23, T146N, R73W	Basin	Natural	No	0	0	0	0	N	N	N						
5	Sec. 23, T146N, R73W	Ditch	Artificial	No	0.01	0.01	0	0	N	N	N						
6	Sec. 26, T146N, R73W	Ditch	Artificial	No	0.01	0.01	0	0	N	N	N						
7	Sec. 23, T146N, R73W	Ditch	Artificial	No	0.01	0	0	0	N	N	N						
8	Sec. 23, T146N, R73W	Basin	Artificial	No	0.06	0.09	0	0	N	N	N						
9	Sec. 26, T146N, R73W	Basin	Natural	No	0	0	0	0	N	N	N						
1a	Sec. 24, T146N, R73W	Basin	Natural	No	0.04	0.04	0	0	Y	N	N	Vollrath 16/17	0.04				
Totals					0.19	0.15	0.00	0.00					0.04		0.00		0.00

Impact Summary Table			
Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	Total (Acres)	Wetland Type	Total (Acres/Lf)
Natural/JD	0.00	Temporary JD	0.00
Natural/Non-JD	0.04	Non-JD Temporary	0.19
Artificial/JD	0.00	Permanent JD > 0.10	0.00
Artificial/Non-JD	0.11	Permanent OW	0.00
Total	0.15	Temporary OW	0.00

Mitigation Summary Table					
	Location	Onsite	11990	USACE/11990	USFWS
EO 11990 Only		Acres(s)	Bank	Bank	Bank
	Vollrath 16/17 Bank	NA	0.04	NA	NA
	Total	0.00	0.04	0.00	0.00

Other Waters Impact Table																
Number	Location	Type	Other Waters				USACE Jurisdictional ¹	Impacts to Other Waters				Mitigation Required			Mitigation Location; ratio	Method
			Size		Feature	Acres(s)		Linear Feet		EO 11990	USACE	USFWS				
			Acres(s)	Linear Feet		Acres(s)		Linear Feet								
OW4b	Sec. 23, T146N, R73W	-	2.09	NA	Lake	No	0.00	0.00	0.00	0.00	N	N	N			
OW4c	Sec. 26, T146N, R73W	-	4.33	NA	Lake	No	0.00	0.00	0.00	0.00	N	N	N			
			6.42				0.00	0.00	0.00	0.00						

¹ A wetland Jurisdictional Determination was issued by the USACE on 12/29/2016; NWO-2011-1384-BIS & 1/12/2017; NWO-2010-2737-BIS.

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Wetland Impacts Table

Sliver Grading, Milling, and RAP Overlay
ND 3, W Jct 200 E to Hurdsfield