

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

GW Monitoring Data / M-2010-071 / Goose Haven Reservoir #2 - Complex Expansion

Peter Wayland <pwayland@weilandinc.com>

Mon, May 17, 2021 at 12:06 PM

To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>, Melanie Asquith <Melanie.Asquith@lafayetteco.gov>

Cc: Jon <jon.file@comcast.net>, "Cunningham - DNR, Michael" <michaela.cunningham@state.co.us>

Amy,

Please follows links to download the SWSP and piezometer monitoring data. Please note that the site has been continuously operating under the existing - albeit expired SWSP. Monthly replacement water deliveries have been made to Boulder Creek and monthly accounting has been submitted to the Division office without any lapse.

Accounting records are available on the CDSS website, or I can provide at your request. I have provided a link to download the Engineering Drawing set for the Dam design which is currently undergoing review with the SEO dam safety division.

Thank You

I'm using Adobe Acrobat.

You can view "Goose Haven Observation Wells.xlsx" at: <https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:765f955c-a681-4436-b51d-9d418e8b695d>You can view "GH SSP 2021.pdf" at: <https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:8f8d2f1f-6a27-46a1-b44f-d2e8c8f571f6>You can view "BCD_II_Goose Haven Cell 2A_Drawings-DRAFT_2021-04-19.pdf" at: <https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:2568e7b1-5045-4c30-862a-5df7703ad4d2>

Peter Wayland

Weiland, Inc

303.518.2182 m

From: Eschberger - DNR, Amy <amy.eschberger@state.co.us>**Sent:** Friday, May 14, 2021 1:07 PM**To:** Melanie Asquith <Melanie.Asquith@lafayetteco.gov>**Cc:** Jon <jon.file@comcast.net>; Peter Wayland <pwayland@weilandinc.com>; Cunningham - DNR, Michael <michaela.cunningham@state.co.us>

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8/11/2014	10.3	17.6	13.8	9.7	32.1	23.7	17.6	6.5	4
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8/20/2014	10	17.4	13.5	9.7	32.4	23.8	17.1	6.1	6.8
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9/3/2014	10.7	18.4	13.8	10	32.8	24.4	18.5	7.4	9.9
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9/16/2014	11	17.8	13.8	10.3	33.1	22.9	18.1	7.6	8.1
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9/23/2014	11.3	17.4	14.1	10.4	32.9	21.9	17.7	7.9	8.7
9/24/2014									
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9/30/2014	11	16.9	14.1	10.2	23.6	20.2	17.3	7.9	9.2
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10/4/2014									
10/5/2014	10.8	16.9	14.2	10.2	32.7	21.2	17.2	7.9	9.4

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5/6/2015	12.5	24.6	16.9	11.9		20.3	7.2	9.8
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7/14/2015	8.1	19.2	14.4	8.7	28	19.6	5.8	7.3
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9/15/2015	8.9	18.9	14.7	9.4	23.8	19.2	7.4	10.7
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9/22/2015	9.3	19.4	14.7	9.6	23.6	19.4	7.6	11.1
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9/27/2015	10.9	18.5	14.5	10.6	23.7	19	7.9	11.4
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11/15/2015								
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11/18/2015								
11/19/2015	11.4	19.2	14.8	11.2	25	20.2	9.4	12
11/20/2015								
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11/24/2015								

11/25/2015	11.5	19.2	14.9	11	25.2	20	9.4	11.9
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12/5/2015	11	19	14.5	11.3	24.8	19.6	9.7	12.3
12/6/2015								
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12/10/2015	12.1	19.8	15.4	11.9	25	20.1	8.2	11.4
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12/17/2015								
12/18/2015	12.5	20	15.6	12.3	25.1	20.6	8.6	11.2
12/19/2015								
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12/22/2015	12.9	20.1	15	12.9	25.8	20.9	8.7	11.2
12/23/2015								
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12/29/2015								
12/30/2015								
12/31/2015	12.7	20.3	15.4	12.7	25.7	20.8	8.6	11.4

City of Lafayette - Goosehaven Complex Observation Wells

	#1	#2	#3	#4	#5	# 6	# 7	# 8	# 9	# 10	*O.O.S. = Out of Service
1/1/2016	O.O.S.					O.O.S.					
1/2/2016	O.O.S.					O.O.S.					
1/3/2016	O.O.S.					O.O.S.					
1/4/2016	O.O.S.					O.O.S.					
1/5/2016	O.O.S.	12.8	21.1	16.9	11.7	O.O.S.	28.7	20.9	5.4	10.9	
1/6/2016	O.O.S.					O.O.S.					
1/7/2016	O.O.S.					O.O.S.					
1/8/2016	O.O.S.					O.O.S.					
1/9/2016	O.O.S.					O.O.S.					
1/10/2016	O.O.S.					O.O.S.					
1/11/2016	O.O.S.					O.O.S.					
1/12/2016	O.O.S.					O.O.S.					
1/13/2016	O.O.S.	12.8	21	16.9	11.8	O.O.S.	28.7		5.3	10.8	
1/14/2016	O.O.S.					O.O.S.					
1/15/2016	O.O.S.					O.O.S.					
1/16/2016	O.O.S.					O.O.S.					
1/17/2016	O.O.S.					O.O.S.					
1/18/2016	O.O.S.					O.O.S.					
1/19/2016	O.O.S.	13.1	21	17	12	O.O.S.	28.7		5.2	10.7	
1/20/2016	O.O.S.					O.O.S.					
1/21/2016	O.O.S.					O.O.S.					
1/22/2016	O.O.S.					O.O.S.					
1/23/2016	O.O.S.					O.O.S.					
1/24/2016	O.O.S.					O.O.S.					
1/25/2016	O.O.S.					O.O.S.					
1/26/2016	O.O.S.					O.O.S.					
1/27/2016	O.O.S.	13.1	21	17.1	12.1	O.O.S.	28.8	20.9	5.1	10.7	
1/28/2016	O.O.S.					O.O.S.					
1/29/2016	O.O.S.					O.O.S.					
1/30/2016	O.O.S.					O.O.S.					
1/31/2016	O.O.S.					O.O.S.					
2/1/2016	O.O.S.					O.O.S.					
2/2/2016	O.O.S.	13.1	20.9	17.2	12	O.O.S.	28.8	20.6	5	10.6	
2/3/2016	O.O.S.					O.O.S.					
2/4/2016	O.O.S.					O.O.S.					
2/5/2016	O.O.S.					O.O.S.					
2/6/2016	O.O.S.					O.O.S.					
2/7/2016	O.O.S.					O.O.S.					
2/8/2016	O.O.S.					O.O.S.					
2/9/2016	O.O.S.	13	20.7	17.1	11.9	O.O.S.	28.7	20.4	4.9	10.6	
2/10/2016	O.O.S.					O.O.S.					
2/11/2016	O.O.S.					O.O.S.					
2/12/2016	O.O.S.					O.O.S.					
2/13/2016	O.O.S.					O.O.S.					
2/14/2016	O.O.S.					O.O.S.					
2/15/2016	O.O.S.					O.O.S.					
2/16/2016	O.O.S.	12.8	20.9	16.8	11.8	O.O.S.	28.8	20.5	4.7	10.5	
2/17/2016	O.O.S.					O.O.S.					
2/18/2016	O.O.S.					O.O.S.					
2/19/2016	O.O.S.					O.O.S.					
2/20/2016	O.O.S.					O.O.S.					
2/21/2016	O.O.S.					O.O.S.					
2/22/2016	O.O.S.	12.8	20.8	16.7	11.8	O.O.S.	28.8	20.4	4.8	10.4	
2/23/2016	O.O.S.					O.O.S.					
2/24/2016	O.O.S.					O.O.S.					
2/25/2016	O.O.S.					O.O.S.					
2/26/2016	O.O.S.					O.O.S.					
2/27/2016	O.O.S.					O.O.S.					
2/28/2016	O.O.S.					O.O.S.					
2/29/2016	O.O.S.	12.8	20.8	16.6	11.8	O.O.S.	28.8	20.3	4.8	10.4	
3/1/2016	O.O.S.					O.O.S.					
3/2/2016	O.O.S.					O.O.S.					
3/3/2016	O.O.S.					O.O.S.					

3/4/2016	O.O.S.					O.O.S.				
3/5/2016	O.O.S.					O.O.S.				
3/6/2016	O.O.S.	12.8	20.8	16.6	11.8	O.O.S.	28.8	20.4	4.9	10.3
3/7/2016	O.O.S.					O.O.S.				
3/8/2016	O.O.S.					O.O.S.				
3/9/2016	O.O.S.					O.O.S.				
3/10/2016	O.O.S.					O.O.S.				
3/11/2016	O.O.S.					O.O.S.				
3/12/2016	O.O.S.					O.O.S.				
3/13/2016	O.O.S.	12.8	20.8	16.6	11.9	O.O.S.	28.8	20.4	4.9	10.3
3/14/2016	O.O.S.					O.O.S.				
3/15/2016	O.O.S.					O.O.S.				
3/16/2016	O.O.S.					O.O.S.				
3/17/2016	O.O.S.					O.O.S.				
3/18/2016	O.O.S.					O.O.S.				
3/19/2016	O.O.S.					O.O.S.				
3/20/2016	O.O.S.					O.O.S.				
3/21/2016	O.O.S.					O.O.S.				
3/22/2016	O.O.S.					O.O.S.				
3/23/2016	O.O.S.					O.O.S.				
3/24/2016	O.O.S.					O.O.S.				
3/25/2016	O.O.S.					O.O.S.				
3/26/2016	O.O.S.					O.O.S.				
3/27/2016	O.O.S.					O.O.S.				
3/28/2016	O.O.S.					O.O.S.				
3/29/2016	O.O.S.					O.O.S.				
3/30/2016	O.O.S.					O.O.S.				
3/31/2016	O.O.S.					O.O.S.				
4/1/2016	O.O.S.					O.O.S.				
4/2/2016	O.O.S.					O.O.S.				
4/3/2016	O.O.S.					O.O.S.				
4/4/2016	O.O.S.					O.O.S.				
4/5/2016	O.O.S.					O.O.S.				
4/6/2016	O.O.S.					O.O.S.				
4/7/2016	O.O.S.					O.O.S.				
4/8/2016	O.O.S.					O.O.S.				
4/9/2016	O.O.S.					O.O.S.				
4/10/2016	O.O.S.					O.O.S.				
4/11/2016	O.O.S.					O.O.S.				
4/12/2016	O.O.S.					O.O.S.				
4/13/2016	O.O.S.					O.O.S.				
4/14/2016	O.O.S.					O.O.S.				
4/15/2016	O.O.S.					O.O.S.				
4/16/2016	O.O.S.					O.O.S.				
4/17/2016	O.O.S.					O.O.S.				
4/18/2016	O.O.S.					O.O.S.				
4/19/2016	O.O.S.					O.O.S.				
4/20/2016	O.O.S.					O.O.S.				
4/21/2016	O.O.S.					O.O.S.				
4/22/2016	O.O.S.					O.O.S.				
4/23/2016	O.O.S.					O.O.S.				
4/24/2016	O.O.S.	12.3	19.8	16.3	11.6	O.O.S.	28.4	19.4	4.5	9.2
4/25/2016	O.O.S.					O.O.S.				
4/26/2016	O.O.S.					O.O.S.				
4/27/2016	O.O.S.					O.O.S.				
4/28/2016	O.O.S.					O.O.S.				
4/29/2016	O.O.S.					O.O.S.				
4/30/2016	O.O.S.					O.O.S.				
5/1/2016	O.O.S.					O.O.S.				
5/2/2016	O.O.S.					O.O.S.				
5/3/2016	O.O.S.	13	20.5	16.5	11.9	O.O.S.	29.2	21.8	4.5	9.4
5/4/2016	O.O.S.					O.O.S.				
5/5/2016	O.O.S.					O.O.S.				
5/6/2016	O.O.S.					O.O.S.				
5/7/2016	O.O.S.					O.O.S.				

5/8/2016	O.O.S.					O.O.S.				
5/9/2016	O.O.S.					O.O.S.				
5/10/2016	O.O.S.					O.O.S.				
5/11/2016	O.O.S.					O.O.S.				
5/12/2016	O.O.S.					O.O.S.				
5/13/2016	O.O.S.					O.O.S.				
5/14/2016	O.O.S.					O.O.S.				
5/15/2016	O.O.S.					O.O.S.				
5/16/2016	O.O.S.					O.O.S.				
5/17/2016	O.O.S.					O.O.S.				
5/18/2016	O.O.S.					O.O.S.				
5/19/2016	O.O.S.					O.O.S.				
5/20/2016	O.O.S.					O.O.S.				
5/21/2016	O.O.S.					O.O.S.				
5/22/2016	O.O.S.					O.O.S.				
5/23/2016	O.O.S.					O.O.S.				
5/24/2016	O.O.S.					O.O.S.				
5/25/2016	O.O.S.					O.O.S.				
5/26/2016	O.O.S.					O.O.S.				
5/27/2016	O.O.S.					O.O.S.				
5/28/2016	O.O.S.					O.O.S.				
5/29/2016	O.O.S.					O.O.S.				
5/30/2016	O.O.S.					O.O.S.				
5/31/2016	O.O.S.					O.O.S.				
6/1/2016	O.O.S.					O.O.S.				
6/2/2016	O.O.S.					O.O.S.				
6/3/2016	O.O.S.					O.O.S.				
6/4/2016	O.O.S.					O.O.S.				
6/5/2016	O.O.S.					O.O.S.				
6/6/2016	O.O.S.					O.O.S.				
6/7/2016	O.O.S.					O.O.S.				
6/8/2016	O.O.S.					O.O.S.				
6/9/2016	O.O.S.					O.O.S.				
6/10/2016	O.O.S.					O.O.S.				
6/11/2016	O.O.S.					O.O.S.				
6/12/2016	O.O.S.					O.O.S.				
6/13/2016	O.O.S.					O.O.S.				
6/14/2016	O.O.S.					O.O.S.				
6/15/2016	O.O.S.					O.O.S.				
6/16/2016	O.O.S.					O.O.S.				
6/17/2016	O.O.S.					O.O.S.				
6/18/2016	O.O.S.					O.O.S.				
6/19/2016	O.O.S.					O.O.S.				
6/20/2016	O.O.S.					O.O.S.				
6/21/2016	O.O.S.					O.O.S.				
6/22/2016	O.O.S.					O.O.S.				
6/23/2016	O.O.S.	12	20	14	10.7	O.O.S.	27.4	19.5	5.9	9.8
6/24/2016	O.O.S.					O.O.S.				
6/25/2016	O.O.S.					O.O.S.				
6/26/2016	O.O.S.					O.O.S.				
6/27/2016	O.O.S.					O.O.S.				
6/28/2016	O.O.S.					O.O.S.				
6/29/2016	O.O.S.					O.O.S.				
6/30/2016	O.O.S.					O.O.S.				
7/1/2016	O.O.S.					O.O.S.				
7/2/2016	O.O.S.					O.O.S.				
7/3/2016	O.O.S.					O.O.S.				
7/4/2016	O.O.S.					O.O.S.				
7/5/2016	O.O.S.					O.O.S.				
7/6/2016	O.O.S.					O.O.S.				
7/7/2016	O.O.S.					O.O.S.				
7/8/2016	O.O.S.					O.O.S.				
7/9/2016	O.O.S.					O.O.S.				
7/10/2016	O.O.S.					O.O.S.				
7/11/2016	O.O.S.					O.O.S.				

7/12/2016	O.O.S.					O.O.S.				
7/13/2016	O.O.S.					O.O.S.				
7/14/2016	O.O.S.					O.O.S.				
7/15/2016	O.O.S.					O.O.S.				
7/16/2016	O.O.S.					O.O.S.				
7/17/2016	O.O.S.					O.O.S.				
7/18/2016	O.O.S.					O.O.S.				
7/19/2016	O.O.S.					O.O.S.				
7/20/2016	O.O.S.					O.O.S.				
7/21/2016	O.O.S.					O.O.S.				
7/22/2016	O.O.S.					O.O.S.				
7/23/2016	O.O.S.					O.O.S.				
7/24/2016	O.O.S.					O.O.S.				
7/25/2016	O.O.S.					O.O.S.				
7/26/2016	O.O.S.					O.O.S.				
7/27/2016	O.O.S.					O.O.S.				
7/28/2016	O.O.S.	12.8	20.6	14.9	11.2	O.O.S.	28.5	21	6.2	9.6
7/29/2016	O.O.S.					O.O.S.				
7/30/2016	O.O.S.					O.O.S.				
7/31/2016	O.O.S.					O.O.S.				
8/1/2016	O.O.S.					O.O.S.				
8/2/2016	O.O.S.					O.O.S.				
8/3/2016	O.O.S.					O.O.S.				
8/4/2016	O.O.S.					O.O.S.				
8/5/2016	O.O.S.					O.O.S.				
8/6/2016	O.O.S.					O.O.S.				
8/7/2016	O.O.S.					O.O.S.				
8/8/2016	O.O.S.					O.O.S.				
8/9/2016	O.O.S.					O.O.S.				
8/10/2016	O.O.S.					O.O.S.				
8/11/2016	O.O.S.					O.O.S.				
8/12/2016	O.O.S.					O.O.S.				
8/13/2016	O.O.S.					O.O.S.				
8/14/2016	O.O.S.					O.O.S.				
8/15/2016	O.O.S.					O.O.S.				
8/16/2016	O.O.S.					O.O.S.				
8/17/2016	O.O.S.					O.O.S.				
8/18/2016	O.O.S.					O.O.S.				
8/19/2016	O.O.S.					O.O.S.				
8/20/2016	O.O.S.					O.O.S.				
8/21/2016	O.O.S.					O.O.S.				
8/22/2016	O.O.S.					O.O.S.				
8/23/2016	O.O.S.					O.O.S.				
8/24/2016	O.O.S.					O.O.S.				
8/25/2016	O.O.S.					O.O.S.				
8/26/2016	O.O.S.					O.O.S.				
8/27/2016	O.O.S.					O.O.S.				
8/28/2016	O.O.S.					O.O.S.				
8/29/2016	O.O.S.					O.O.S.				
8/30/2016	O.O.S.					O.O.S.				
8/31/2016	O.O.S.					O.O.S.				
9/1/2016	O.O.S.					O.O.S.				
9/2/2016	O.O.S.					O.O.S.				
9/3/2016	O.O.S.					O.O.S.				
9/4/2016	O.O.S.					O.O.S.				
9/5/2016	O.O.S.					O.O.S.				
9/6/2016	O.O.S.					O.O.S.				
9/7/2016	O.O.S.					O.O.S.				
9/8/2016	O.O.S.					O.O.S.				
9/9/2016	O.O.S.					O.O.S.				
9/10/2016	O.O.S.					O.O.S.				
9/11/2016	O.O.S.					O.O.S.				
9/12/2016	O.O.S.	12.1	19	13.4	10.9	O.O.S.	26.9	19.3	9.3	7.9
9/13/2016	O.O.S.					O.O.S.				
9/14/2016	O.O.S.					O.O.S.				

9/15/2016	O.O.S.					O.O.S.				
9/16/2016	O.O.S.					O.O.S.				
9/17/2016	O.O.S.					O.O.S.				
9/18/2016	O.O.S.					O.O.S.				
9/19/2016	O.O.S.					O.O.S.				
9/20/2016	O.O.S.					O.O.S.				
9/21/2016	O.O.S.					O.O.S.				
9/22/2016	O.O.S.					O.O.S.				
9/23/2016	O.O.S.					O.O.S.				
9/24/2016	O.O.S.					O.O.S.				
9/25/2016	O.O.S.					O.O.S.				
9/26/2016	O.O.S.					O.O.S.				
9/27/2016	O.O.S.					O.O.S.				
9/28/2016	O.O.S.					O.O.S.				
9/29/2016	O.O.S.					O.O.S.				
9/30/2016	O.O.S.					O.O.S.				
10/1/2016	O.O.S.					O.O.S.				
10/2/2016	O.O.S.					O.O.S.				
10/3/2016	O.O.S.					O.O.S.				
10/4/2016	O.O.S.					O.O.S.				
10/5/2016	O.O.S.					O.O.S.				
10/6/2016	O.O.S.					O.O.S.				
10/7/2016	O.O.S.					O.O.S.				
10/8/2016	O.O.S.					O.O.S.				
10/9/2016	O.O.S.					O.O.S.				
10/10/2016	O.O.S.					O.O.S.				
10/11/2016	O.O.S.					O.O.S.				
10/12/2016	O.O.S.					O.O.S.				
10/13/2016	O.O.S.					O.O.S.				
10/14/2016	O.O.S.					O.O.S.				
10/15/2016	O.O.S.					O.O.S.				
10/16/2016	O.O.S.					O.O.S.				
10/17/2016	O.O.S.					O.O.S.				
10/18/2016	O.O.S.					O.O.S.				
10/19/2016	O.O.S.					O.O.S.				
10/20/2016	O.O.S.	12.7	20.3	14.9	11.4	O.O.S.	28.4	20.3	9.6	10.6
10/21/2016	O.O.S.					O.O.S.				
10/22/2016	O.O.S.					O.O.S.				
10/23/2016	O.O.S.					O.O.S.				
10/24/2016	O.O.S.					O.O.S.				
10/25/2016	O.O.S.					O.O.S.				
10/26/2016	O.O.S.					O.O.S.				
10/27/2016	O.O.S.					O.O.S.				
10/28/2016	O.O.S.					O.O.S.				
10/29/2016	O.O.S.					O.O.S.				
10/30/2016	O.O.S.					O.O.S.				
10/31/2016	O.O.S.					O.O.S.				
11/1/2016	O.O.S.					O.O.S.				
11/2/2016	O.O.S.					O.O.S.				
11/3/2016	O.O.S.	12.9	20.4	15.6	11.3	O.O.S.	28.5	20.3	9.6	10.8
11/4/2016	O.O.S.					O.O.S.				
11/5/2016	O.O.S.					O.O.S.				
11/6/2016	O.O.S.					O.O.S.				
11/7/2016	O.O.S.					O.O.S.				
11/8/2016	O.O.S.					O.O.S.				
11/9/2016	O.O.S.					O.O.S.				
11/10/2016	O.O.S.	14.6	22.2	17.4	12.7	O.O.S.	29	20.8	9.8	10.7
11/11/2016	O.O.S.					O.O.S.				
11/12/2016	O.O.S.					O.O.S.				
11/13/2016	O.O.S.					O.O.S.				
11/14/2016	O.O.S.					O.O.S.				
11/15/2016	O.O.S.					O.O.S.				
11/16/2016	O.O.S.					O.O.S.				
11/17/2016	O.O.S.					O.O.S.				
11/18/2016	O.O.S.					O.O.S.				

11/19/2016	O.O.S.	O.O.S.
11/20/2016	O.O.S.	O.O.S.
11/21/2016	O.O.S.	O.O.S.
11/22/2016	O.O.S.	O.O.S.
11/23/2016	O.O.S.	O.O.S.
11/24/2016	O.O.S.	O.O.S.
11/25/2016	O.O.S.	O.O.S.
11/26/2016	O.O.S.	O.O.S.
11/27/2016	O.O.S.	O.O.S.
11/28/2016	O.O.S.	O.O.S.
11/29/2016	O.O.S.	O.O.S.
11/30/2016	O.O.S.	O.O.S.
12/1/2016	O.O.S.	O.O.S.
12/2/2016	O.O.S.	O.O.S.
12/3/2016	O.O.S.	O.O.S.
12/4/2016	O.O.S.	O.O.S.
12/5/2016	O.O.S.	O.O.S.
12/6/2016	O.O.S.	O.O.S.
12/7/2016	O.O.S.	O.O.S.
12/8/2016	O.O.S.	O.O.S.
12/9/2016	O.O.S.	O.O.S.
12/10/2016	O.O.S.	
12/11/2016	O.O.S.	
12/12/2016	O.O.S.	
12/13/2016	O.O.S.	
12/14/2016	O.O.S.	
12/15/2016	O.O.S.	
12/16/2016	O.O.S.	
12/17/2016	O.O.S.	
12/18/2016	O.O.S.	
12/19/2016	O.O.S.	
12/20/2016	O.O.S.	
12/21/2016	O.O.S.	
12/22/2016	O.O.S.	
12/23/2016	O.O.S.	
12/24/2016	O.O.S.	
12/25/2016	O.O.S.	
12/26/2016	O.O.S.	
12/27/2016	O.O.S.	
12/28/2016	O.O.S.	
12/29/2016	O.O.S.	
12/30/2016	O.O.S.	
12/31/2016	O.O.S.	

City of Lafayette - Goosehaven Complex Observation Wells

	#1	#2	#3	#4	#5	# 6	# 7	# 8	# 9	# 10	*O.O.S.= Out of Service
1/1/2017	O.O.S.					O.O.S.					
1/2/2017	O.O.S.					O.O.S.					
1/3/2017	O.O.S.					O.O.S.					
1/4/2017	O.O.S.					O.O.S.					
1/5/2017	O.O.S.					O.O.S.					
1/6/2017	O.O.S.					O.O.S.					
1/7/2017	O.O.S.					O.O.S.					
1/8/2017	O.O.S.					O.O.S.					
1/9/2017	O.O.S.					O.O.S.					
1/10/2017	O.O.S.					O.O.S.					
1/11/2017	O.O.S.	13.2	22	17.3	12	O.O.S.	29	21.5	8.5	10.8	
1/12/2017	O.O.S.					O.O.S.					
1/13/2017	O.O.S.					O.O.S.					
1/14/2017	O.O.S.					O.O.S.					
1/15/2017	O.O.S.					O.O.S.					
1/16/2017	O.O.S.					O.O.S.					
1/17/2017	O.O.S.					O.O.S.					
1/18/2017	O.O.S.					O.O.S.					
1/19/2017	O.O.S.					O.O.S.					
1/20/2017	O.O.S.					O.O.S.					
1/21/2017	O.O.S.					O.O.S.					
1/22/2017	O.O.S.					O.O.S.					
1/23/2017	O.O.S.					O.O.S.					
1/24/2017	O.O.S.					O.O.S.					
1/25/2017	O.O.S.					O.O.S.					
1/26/2017	O.O.S.	13	21.6	17.5	12	O.O.S.	28.5	21.6	8.6	10.6	
1/27/2017	O.O.S.					O.O.S.					
1/28/2017	O.O.S.					O.O.S.					
1/29/2017	O.O.S.					O.O.S.					
1/30/2017	O.O.S.					O.O.S.					
1/31/2017	O.O.S.					O.O.S.					
2/1/2017	O.O.S.					O.O.S.					
2/2/2017	O.O.S.					O.O.S.					
2/3/2017	O.O.S.					O.O.S.					
2/4/2017	O.O.S.					O.O.S.					
2/5/2017	O.O.S.					O.O.S.					
2/6/2017	O.O.S.					O.O.S.					
2/7/2017	O.O.S.					O.O.S.					
2/8/2017	O.O.S.	13.3	22	17.1	12.2	O.O.S.	28.9	21.3	8	10.8	
2/9/2017	O.O.S.					O.O.S.					
2/10/2017	O.O.S.					O.O.S.					
2/11/2017	O.O.S.					O.O.S.					
2/12/2017	O.O.S.					O.O.S.					
2/13/2017	O.O.S.					O.O.S.					
2/14/2017	O.O.S.					O.O.S.					
2/15/2017	O.O.S.					O.O.S.					
2/16/2017	O.O.S.					O.O.S.					
2/17/2017	O.O.S.					O.O.S.					
2/18/2017	O.O.S.					O.O.S.					
2/19/2017	O.O.S.					O.O.S.					
2/20/2017	O.O.S.	13.2	22.1	16.5	12.1	O.O.S.	28.9	21.5	7.9	10.8	
2/21/2017	O.O.S.					O.O.S.					
2/22/2017	O.O.S.					O.O.S.					
2/23/2017	O.O.S.					O.O.S.					
2/24/2017	O.O.S.					O.O.S.					
2/25/2017	O.O.S.					O.O.S.					
2/26/2017	O.O.S.					O.O.S.					
2/27/2017	O.O.S.					O.O.S.					
2/28/2017	O.O.S.					O.O.S.					
3/1/2017	O.O.S.					O.O.S.					
3/2/2017	O.O.S.					O.O.S.					
3/3/2017	O.O.S.					O.O.S.					
3/4/2017	O.O.S.					O.O.S.					
3/5/2017	O.O.S.					O.O.S.					
3/6/2017	O.O.S.					O.O.S.					
3/7/2017	O.O.S.					O.O.S.					
3/8/2017	O.O.S.					O.O.S.					
3/9/2017	O.O.S.					O.O.S.					

3/10/2017	O.O.S.					O.O.S.				
3/11/2017	O.O.S.					O.O.S.				
3/12/2017	O.O.S.					O.O.S.				
3/13/2017	O.O.S.					O.O.S.				
3/14/2017	O.O.S.					O.O.S.				
3/15/2017	O.O.S.					O.O.S.				
3/16/2017	O.O.S.					O.O.S.				
3/17/2017	O.O.S.	13.4	22.3	16.1	12.3	O.O.S.	28.9	21.7	7.7	10.8
3/18/2017	O.O.S.					O.O.S.				
3/19/2017	O.O.S.					O.O.S.				
3/20/2017	O.O.S.					O.O.S.				
3/21/2017	O.O.S.					O.O.S.				
3/22/2017	O.O.S.					O.O.S.				
3/23/2017	O.O.S.					O.O.S.				
3/24/2017	O.O.S.					O.O.S.				
3/25/2017	O.O.S.					O.O.S.				
3/26/2017	O.O.S.					O.O.S.				
3/27/2017	O.O.S.					O.O.S.				
3/28/2017	O.O.S.					O.O.S.				
3/29/2017	O.O.S.					O.O.S.				
3/30/2017	O.O.S.					O.O.S.				
3/31/2017	O.O.S.					O.O.S.				
4/1/2017	O.O.S.					O.O.S.				
4/2/2017	O.O.S.					O.O.S.				
4/3/2017	O.O.S.					O.O.S.				
4/4/2017	O.O.S.					O.O.S.				
4/5/2017	O.O.S.					O.O.S.				
4/6/2017	O.O.S.					O.O.S.				
4/7/2017	O.O.S.					O.O.S.				
4/8/2017	O.O.S.					O.O.S.				
4/9/2017	O.O.S.					O.O.S.				
4/10/2017	O.O.S.					O.O.S.				
4/11/2017	O.O.S.					O.O.S.				
4/12/2017	O.O.S.					O.O.S.				
4/13/2017	O.O.S.					O.O.S.				
4/14/2017	O.O.S.					O.O.S.				
4/15/2017	O.O.S.					O.O.S.				
4/16/2017	O.O.S.					O.O.S.				
4/17/2017	O.O.S.					O.O.S.				
4/18/2017	O.O.S.					O.O.S.				
4/19/2017	O.O.S.	13.2	22.5	14.8	11.8	O.O.S.	29.5	22.6	8.1	10.8
4/20/2017	O.O.S.					O.O.S.				
4/21/2017	O.O.S.					O.O.S.				
4/22/2017	O.O.S.					O.O.S.				
4/23/2017	O.O.S.					O.O.S.				
4/24/2017	O.O.S.					O.O.S.				
4/25/2017	O.O.S.					O.O.S.				
4/26/2017	O.O.S.					O.O.S.				
4/27/2017	O.O.S.					O.O.S.				
4/28/2017	O.O.S.					O.O.S.				
4/29/2017	O.O.S.					O.O.S.				
4/30/2017	O.O.S.					O.O.S.				
5/1/2017	O.O.S.					O.O.S.				
5/2/2017	O.O.S.					O.O.S.				
5/3/2017	O.O.S.					O.O.S.				
5/4/2017	O.O.S.	13.4	23	14.3	11.9	O.O.S.	28.9	23	8.2	10.9
5/5/2017	O.O.S.					O.O.S.				
5/6/2017	O.O.S.					O.O.S.				
5/7/2017	O.O.S.					O.O.S.				
5/8/2017	O.O.S.					O.O.S.				
5/9/2017	O.O.S.					O.O.S.				
5/10/2017	O.O.S.					O.O.S.				
5/11/2017	O.O.S.					O.O.S.				
5/12/2017	O.O.S.					O.O.S.				
5/13/2017	O.O.S.					O.O.S.				
5/14/2017	O.O.S.					O.O.S.				
5/15/2017	O.O.S.					O.O.S.				
5/16/2017	O.O.S.					O.O.S.				
5/17/2017	O.O.S.					O.O.S.				
5/18/2017	O.O.S.					O.O.S.				

5/19/2017	O.O.S.					O.O.S.				
5/20/2017	O.O.S.					O.O.S.				
5/21/2017	O.O.S.					O.O.S.				
5/22/2017	O.O.S.					O.O.S.				
5/23/2017	O.O.S.					O.O.S.				
5/24/2017	O.O.S.					O.O.S.				
5/25/2017	O.O.S.					O.O.S.				
5/26/2017	O.O.S.					O.O.S.				
5/27/2017	O.O.S.					O.O.S.				
5/28/2017	O.O.S.					O.O.S.				
5/29/2017	O.O.S.					O.O.S.				
5/30/2017	O.O.S.					O.O.S.				
5/31/2017	O.O.S.					O.O.S.				
6/1/2017	O.O.S.					O.O.S.				
6/2/2017	O.O.S.					O.O.S.				
6/3/2017	O.O.S.					O.O.S.				
6/4/2017	O.O.S.					O.O.S.				
6/5/2017	O.O.S.					O.O.S.				
6/6/2017	O.O.S.					O.O.S.				
6/7/2017	O.O.S.	12	20.9	13.7	10.6	O.O.S.	26.4	25.1	7.2	8.3
6/8/2017	O.O.S.					O.O.S.				
6/9/2017	O.O.S.					O.O.S.				
6/10/2017	O.O.S.					O.O.S.				
6/11/2017	O.O.S.					O.O.S.				
6/12/2017	O.O.S.					O.O.S.				
6/13/2017	O.O.S.					O.O.S.				
6/14/2017	O.O.S.					O.O.S.				
6/15/2017	O.O.S.					O.O.S.				
6/16/2017	O.O.S.					O.O.S.				
6/17/2017	O.O.S.					O.O.S.				
6/18/2017	O.O.S.					O.O.S.				
6/19/2017	O.O.S.					O.O.S.				
6/20/2017	O.O.S.					O.O.S.				
6/21/2017	O.O.S.					O.O.S.				
6/22/2017	O.O.S.					O.O.S.				
6/23/2017	O.O.S.					O.O.S.				
6/24/2017	O.O.S.					O.O.S.				
6/25/2017	O.O.S.					O.O.S.				
6/26/2017	O.O.S.					O.O.S.				
6/27/2017	O.O.S.					O.O.S.				
6/28/2017	O.O.S.					O.O.S.				
6/29/2017	O.O.S.	12	21	14	11	O.O.S.	28	22	7.5	8.5
6/30/2017	O.O.S.					O.O.S.				
7/1/2017	O.O.S.					O.O.S.				
7/2/2017	O.O.S.					O.O.S.				
7/3/2017	O.O.S.					O.O.S.				
7/4/2017	O.O.S.					O.O.S.				
7/5/2017	O.O.S.					O.O.S.				
7/6/2017	O.O.S.					O.O.S.				
7/7/2017	O.O.S.	11.5	20.4	14	10.8	O.O.S.	26.5	22.8		
7/8/2017	O.O.S.					O.O.S.				
7/9/2017	O.O.S.					O.O.S.				
7/10/2017	O.O.S.					O.O.S.				
7/11/2017	O.O.S.					O.O.S.				
7/12/2017	O.O.S.					O.O.S.				
7/13/2017	O.O.S.					O.O.S.				
7/14/2017	O.O.S.					O.O.S.				
7/15/2017	O.O.S.					O.O.S.				
7/16/2017	O.O.S.					O.O.S.				
7/17/2017	O.O.S.					O.O.S.				
7/18/2017	O.O.S.					O.O.S.				
7/19/2017	O.O.S.					O.O.S.				
7/20/2017	O.O.S.					O.O.S.				
7/21/2017	O.O.S.					O.O.S.				
7/22/2017	O.O.S.					O.O.S.				
7/23/2017	O.O.S.					O.O.S.				
7/24/2017	O.O.S.					O.O.S.				
7/25/2017	O.O.S.					O.O.S.				
7/26/2017	O.O.S.					O.O.S.				
7/27/2017	O.O.S.					O.O.S.				

7/28/2017	O.O.S.					O.O.S.				
7/29/2017	O.O.S.					O.O.S.				
7/30/2017	O.O.S.					O.O.S.				
7/31/2017	O.O.S.					O.O.S.				
8/1/2017	O.O.S.					O.O.S.				
8/2/2017	O.O.S.					O.O.S.				
8/3/2017	O.O.S.					O.O.S.				
8/4/2017	O.O.S.					O.O.S.				
8/5/2017	O.O.S.					O.O.S.				
8/6/2017	O.O.S.					O.O.S.				
8/7/2017	O.O.S.					O.O.S.				
8/8/2017	O.O.S.					O.O.S.				
8/9/2017	O.O.S.	11.4	20.3	7.7	10.4	O.O.S.	25.2	24.5	10.4	6.4
8/10/2017	O.O.S.					O.O.S.				
8/11/2017	O.O.S.					O.O.S.				
8/12/2017	O.O.S.					O.O.S.				
8/13/2017	O.O.S.					O.O.S.				
8/14/2017	O.O.S.					O.O.S.				
8/15/2017	O.O.S.					O.O.S.				
8/16/2017	O.O.S.					O.O.S.				
8/17/2017	O.O.S.					O.O.S.				
8/18/2017	O.O.S.					O.O.S.				
8/19/2017	O.O.S.					O.O.S.				
8/20/2017	O.O.S.					O.O.S.				
8/21/2017	O.O.S.					O.O.S.				
8/22/2017	O.O.S.					O.O.S.				
8/23/2017	O.O.S.					O.O.S.				
8/24/2017	O.O.S.					O.O.S.				
8/25/2017	O.O.S.					O.O.S.				
8/26/2017	O.O.S.	12.1	21.9	13.9	11	O.O.S.	26.4	25	7.5	8.3
8/27/2017	O.O.S.					O.O.S.				
8/28/2017	O.O.S.					O.O.S.				
8/29/2017	O.O.S.					O.O.S.				
8/30/2017	O.O.S.					O.O.S.				
8/31/2017	O.O.S.					O.O.S.				
9/1/2017	O.O.S.					O.O.S.				
9/2/2017	O.O.S.					O.O.S.				
9/3/2017	O.O.S.					O.O.S.				
9/4/2017	O.O.S.					O.O.S.				
9/5/2017	O.O.S.					O.O.S.				
9/6/2017	O.O.S.					O.O.S.				
9/7/2017	O.O.S.					O.O.S.				
9/8/2017	O.O.S.					O.O.S.				
9/9/2017	O.O.S.					O.O.S.				
9/10/2017	O.O.S.					O.O.S.				
9/11/2017	O.O.S.					O.O.S.				
9/12/2017	O.O.S.					O.O.S.				
9/13/2017	O.O.S.					O.O.S.				
9/14/2017	O.O.S.	12.3	22.8	13.9	11	O.O.S.	28.9	25.4	8.9	6.9
9/15/2017	O.O.S.					O.O.S.				
9/16/2017	O.O.S.					O.O.S.				
9/17/2017	O.O.S.					O.O.S.				
9/18/2017	O.O.S.					O.O.S.				
9/19/2017	O.O.S.					O.O.S.				
9/20/2017	O.O.S.					O.O.S.				
9/21/2017	O.O.S.					O.O.S.				
9/22/2017	O.O.S.					O.O.S.				
9/23/2017	O.O.S.					O.O.S.				
9/24/2017	O.O.S.					O.O.S.				
9/25/2017	O.O.S.					O.O.S.				
9/26/2017	O.O.S.					O.O.S.				
9/27/2017	O.O.S.					O.O.S.				
9/28/2017	O.O.S.					O.O.S.				
9/29/2017	O.O.S.					O.O.S.				
9/30/2017	O.O.S.					O.O.S.				
10/1/2017	O.O.S.					O.O.S.				
10/2/2017	O.O.S.					O.O.S.				
10/3/2017	O.O.S.					O.O.S.				
10/4/2017	O.O.S.	12.2	23.3	14.8	11.2	O.O.S.	29.3	25.8	9.2	7.8
10/5/2017	O.O.S.					O.O.S.				

10/6/2017	O.O.S.					O.O.S.				
10/7/2017	O.O.S.					O.O.S.				
10/8/2017	O.O.S.					O.O.S.				
10/9/2017	O.O.S.					O.O.S.				
10/10/2017	O.O.S.					O.O.S.				
10/11/2017	O.O.S.					O.O.S.				
10/12/2017	O.O.S.					O.O.S.				
10/13/2017	O.O.S.					O.O.S.				
10/14/2017	O.O.S.					O.O.S.				
10/15/2017	O.O.S.					O.O.S.				
10/16/2017	O.O.S.					O.O.S.				
10/17/2017	O.O.S.					O.O.S.				
10/18/2017	O.O.S.	12.3	23.5	14.8	11.1	O.O.S.	29.3	25.6	9	8.1
10/19/2017	O.O.S.					O.O.S.				
10/20/2017	O.O.S.					O.O.S.				
10/21/2017	O.O.S.					O.O.S.				
10/22/2017	O.O.S.					O.O.S.				
10/23/2017	O.O.S.					O.O.S.				
10/24/2017	O.O.S.					O.O.S.				
10/25/2017	O.O.S.					O.O.S.				
10/26/2017	O.O.S.					O.O.S.				
10/27/2017	O.O.S.					O.O.S.				
10/28/2017	O.O.S.					O.O.S.				
10/29/2017	O.O.S.					O.O.S.				
10/30/2017	O.O.S.					O.O.S.				
10/31/2017	O.O.S.					O.O.S.				
11/1/2017	O.O.S.					O.O.S.				
11/2/2017	O.O.S.					O.O.S.				
11/3/2017	O.O.S.	12.9	23.7	15.9	12	O.O.S.	29.3	25.8	8.8	8.5
11/4/2017	O.O.S.					O.O.S.				
11/5/2017	O.O.S.					O.O.S.				
11/6/2017	O.O.S.					O.O.S.				
11/7/2017	O.O.S.					O.O.S.				
11/8/2017	O.O.S.					O.O.S.				
11/9/2017	O.O.S.					O.O.S.				
11/10/2017	O.O.S.					O.O.S.				
11/11/2017	O.O.S.					O.O.S.				
11/12/2017	O.O.S.					O.O.S.				
11/13/2017	O.O.S.					O.O.S.				
11/14/2017	O.O.S.					O.O.S.				
11/15/2017	O.O.S.					O.O.S.				
11/16/2017	O.O.S.					O.O.S.				
11/17/2017	O.O.S.					O.O.S.				
11/18/2017	O.O.S.					O.O.S.				
11/19/2017	O.O.S.					O.O.S.				
11/20/2017	O.O.S.					O.O.S.				
11/21/2017	O.O.S.					O.O.S.				
11/22/2017	O.O.S.	12.9	24	16.4	11.9	O.O.S.	29.3	26	8.5	8.9
11/23/2017	O.O.S.					O.O.S.				
11/24/2017	O.O.S.					O.O.S.				
11/25/2017	O.O.S.					O.O.S.				
11/26/2017	O.O.S.					O.O.S.				
11/27/2017	O.O.S.					O.O.S.				
11/28/2017	O.O.S.					O.O.S.				
11/29/2017	O.O.S.					O.O.S.				
11/30/2017	O.O.S.					O.O.S.				
12/1/2017	O.O.S.					O.O.S.				
12/2/2017	O.O.S.					O.O.S.				
12/3/2017	O.O.S.					O.O.S.				
12/4/2017	O.O.S.					O.O.S.				
12/5/2017	O.O.S.					O.O.S.				
12/6/2017	O.O.S.	13	24.2	16.4	12	O.O.S.	29.2	26.2	8.2	9.1
12/7/2017	O.O.S.					O.O.S.				
12/8/2017	O.O.S.					O.O.S.				
12/9/2017	O.O.S.					O.O.S.				
12/10/2017	O.O.S.					O.O.S.				
12/11/2017	O.O.S.					O.O.S.				
12/12/2017	O.O.S.					O.O.S.				
12/13/2017	O.O.S.					O.O.S.				
12/14/2017	O.O.S.					O.O.S.				

12/15/2017	O.O.S.	O.O.S.
12/16/2017	O.O.S.	O.O.S.
12/17/2017	O.O.S.	O.O.S.
12/18/2017	O.O.S.	O.O.S.
12/19/2017	O.O.S.	O.O.S.
12/20/2017	O.O.S.	O.O.S.
12/21/2017	O.O.S.	O.O.S.
12/22/2017	O.O.S.	O.O.S.
12/23/2017	O.O.S.	O.O.S.
12/24/2017	O.O.S.	O.O.S.
12/25/2017	O.O.S.	O.O.S.
12/26/2017	O.O.S.	O.O.S.
12/27/2017	O.O.S.	O.O.S.
12/28/2017	O.O.S.	O.O.S.
12/29/2017	O.O.S.	O.O.S.
12/30/2017	O.O.S.	O.O.S.
12/31/2017	O.O.S.	O.O.S.

City of Lafayette - Goosehaven Complex Observation Wells

	#1	#2	#3	#4	#5	# 6	# 7	# 8	# 9	# 10	*O.O.S.= Out of Service
1/1/2017	O.O.S.					O.O.S.					
1/2/2018	O.O.S.					O.O.S.					
1/3/2018	O.O.S.	13.1	24.4	16.8	12	O.O.S.	29.2	26.3	7.9	9.5	
1/4/2018	O.O.S.					O.O.S.					
1/5/2018	O.O.S.					O.O.S.					
1/6/2018	O.O.S.					O.O.S.					
1/7/2018	O.O.S.					O.O.S.					
1/8/2018	O.O.S.					O.O.S.					
1/9/2018	O.O.S.					O.O.S.					
1/10/2018	O.O.S.					O.O.S.					
1/11/2018	O.O.S.					O.O.S.					
1/12/2018	O.O.S.					O.O.S.					
1/13/2018	O.O.S.					O.O.S.					
1/14/2018	O.O.S.					O.O.S.					
1/15/2018	O.O.S.					O.O.S.					
1/16/2018	O.O.S.					O.O.S.					
1/17/2018	O.O.S.					O.O.S.					
1/18/2018	O.O.S.					O.O.S.					
1/19/2018	O.O.S.					O.O.S.					
1/20/2018	O.O.S.					O.O.S.					
1/21/2018	O.O.S.					O.O.S.					
1/22/2018	O.O.S.					O.O.S.					
1/23/2018	O.O.S.					O.O.S.					
1/24/2018	O.O.S.					O.O.S.					
1/25/2018	O.O.S.	13.2	24.6	17.1	12.1	O.O.S.	29.2	26.4	7.6	9.7	
1/26/2018	O.O.S.					O.O.S.					
1/27/2018	O.O.S.					O.O.S.					
1/28/2018	O.O.S.					O.O.S.					
1/29/2018	O.O.S.					O.O.S.					
1/30/2018	O.O.S.					O.O.S.					
1/31/2018	O.O.S.					O.O.S.					
2/1/2018	O.O.S.					O.O.S.					
2/2/2018	O.O.S.					O.O.S.					
2/3/2018	O.O.S.					O.O.S.					
2/4/2018	O.O.S.					O.O.S.					
2/5/2018	O.O.S.					O.O.S.					
2/6/2018	O.O.S.					O.O.S.					
2/7/2018	O.O.S.	13.5	24.7	17.2	12.2	O.O.S.	29.3	26.4	7.5	9.9	
2/8/2018	O.O.S.					O.O.S.					
2/9/2018	O.O.S.					O.O.S.					
2/10/2018	O.O.S.					O.O.S.					
2/11/2018	O.O.S.					O.O.S.					
2/12/2018	O.O.S.					O.O.S.					
2/13/2018	O.O.S.					O.O.S.					
2/14/2018	O.O.S.					O.O.S.					
2/15/2018	O.O.S.					O.O.S.					
2/16/2018	O.O.S.					O.O.S.					
2/17/2018	O.O.S.					O.O.S.					
2/18/2018	O.O.S.					O.O.S.					
2/19/2018	O.O.S.					O.O.S.					
2/20/2018	O.O.S.					O.O.S.					
2/21/2018	O.O.S.					O.O.S.					
2/22/2018	O.O.S.	13.5	24.7	16.9	12.5	O.O.S.	29.3	26.4	7.2	9.9	
2/23/2018	O.O.S.					O.O.S.					
2/24/2018	O.O.S.					O.O.S.					
2/25/2018	O.O.S.					O.O.S.					
2/26/2018	O.O.S.					O.O.S.					
2/27/2018	O.O.S.					O.O.S.					
2/28/2018	O.O.S.					O.O.S.					
3/1/2018	O.O.S.					O.O.S.					
3/2/2018	O.O.S.					O.O.S.					
3/3/2018	O.O.S.					O.O.S.					
3/4/2018	O.O.S.					O.O.S.					
3/5/2018	O.O.S.					O.O.S.					
3/6/2018	O.O.S.					O.O.S.					
3/7/2018	O.O.S.	13.5	24.7	16.6	12.3	O.O.S.	29.3	26.3	7.2	10	
3/8/2018	O.O.S.					O.O.S.					
3/9/2018	O.O.S.					O.O.S.					

3/10/2018	O.O.S.					O.O.S.				
3/11/2018	O.O.S.					O.O.S.				
3/12/2018	O.O.S.					O.O.S.				
3/13/2018	O.O.S.					O.O.S.				
3/14/2018	O.O.S.					O.O.S.				
3/15/2018	O.O.S.					O.O.S.				
3/16/2018	O.O.S.					O.O.S.				
3/17/2018	O.O.S.					O.O.S.				
3/18/2018	O.O.S.					O.O.S.				
3/19/2018	O.O.S.					O.O.S.				
3/20/2018	O.O.S.					O.O.S.				
3/21/2018	O.O.S.					O.O.S.				
3/22/2018	O.O.S.					O.O.S.				
3/23/2018	O.O.S.					O.O.S.				
3/24/2018	O.O.S.					O.O.S.				
3/25/2018	O.O.S.					O.O.S.				
3/26/2018	O.O.S.					O.O.S.				
3/27/2018	O.O.S.					O.O.S.				
3/28/2018	O.O.S.	12.7	24.6	16.4	11.7	O.O.S.	29.3	26.4	6.8	10
3/29/2018	O.O.S.					O.O.S.				
3/30/2018	O.O.S.					O.O.S.				
3/31/2018	O.O.S.					O.O.S.				
4/1/2018	O.O.S.					O.O.S.				
4/2/2018	O.O.S.					O.O.S.				
4/3/2018	O.O.S.					O.O.S.				
4/4/2018	O.O.S.					O.O.S.				
4/5/2018	O.O.S.					O.O.S.				
4/6/2018	O.O.S.					O.O.S.				
4/7/2018	O.O.S.					O.O.S.				
4/8/2018	O.O.S.					O.O.S.				
4/9/2018	O.O.S.					O.O.S.				
4/10/2018	O.O.S.					O.O.S.				
4/11/2018	O.O.S.	11.5	24.5	16.2	11.2	O.O.S.	29.3	26.3		
4/12/2018	O.O.S.					O.O.S.				
4/13/2018	O.O.S.					O.O.S.				
4/14/2018	O.O.S.					O.O.S.				
4/15/2018	O.O.S.					O.O.S.				
4/16/2018	O.O.S.					O.O.S.				
4/17/2018	O.O.S.					O.O.S.				
4/18/2018	O.O.S.					O.O.S.				
4/19/2018	O.O.S.					O.O.S.				
4/20/2018	O.O.S.					O.O.S.				
4/21/2018	O.O.S.					O.O.S.				
4/22/2018	O.O.S.					O.O.S.				
4/23/2018	O.O.S.					O.O.S.				
4/24/2018	O.O.S.					O.O.S.				
4/25/2018	O.O.S.					O.O.S.				
4/26/2018	O.O.S.					O.O.S.				
4/27/2018	O.O.S.					O.O.S.				
4/28/2018	O.O.S.	10.8	24.7	16.2	10.5	O.O.S.	29.3	26.5		
4/29/2018	O.O.S.					O.O.S.				
4/30/2018	O.O.S.					O.O.S.				
5/1/2018	O.O.S.					O.O.S.				
5/2/2018	O.O.S.					O.O.S.				
5/3/2018	O.O.S.					O.O.S.				
5/4/2018	O.O.S.					O.O.S.				
5/5/2018	O.O.S.					O.O.S.				
5/6/2018	O.O.S.					O.O.S.				
5/7/2018	O.O.S.					O.O.S.				
5/8/2018	O.O.S.					O.O.S.				
5/9/2018	O.O.S.					O.O.S.				
5/10/2018	O.O.S.					O.O.S.				
5/11/2018	O.O.S.					O.O.S.				
5/12/2018	O.O.S.					O.O.S.				
5/13/2018	O.O.S.					O.O.S.				
5/14/2018	O.O.S.					O.O.S.				
5/15/2018	O.O.S.					O.O.S.				
5/16/2018	O.O.S.					O.O.S.				
5/17/2018	O.O.S.					O.O.S.				
5/18/2018	O.O.S.	10	23.6	13	9.2	O.O.S.	29.3	25.9		

5/19/2018	O.O.S.					O.O.S.		
5/20/2018	O.O.S.					O.O.S.		
5/21/2018	O.O.S.					O.O.S.		
5/22/2018	O.O.S.					O.O.S.		
5/23/2018	O.O.S.					O.O.S.		
5/24/2018	O.O.S.					O.O.S.		
5/25/2018	O.O.S.					O.O.S.		
5/26/2018	O.O.S.					O.O.S.		
5/27/2018	O.O.S.					O.O.S.		
5/28/2018	O.O.S.					O.O.S.		
5/29/2018	O.O.S.					O.O.S.		
5/30/2018	O.O.S.					O.O.S.		
5/31/2018	O.O.S.	10.9	22.5	12.2	8.8	O.O.S.	26.3	25.2
6/1/2018	O.O.S.					O.O.S.		
6/2/2018	O.O.S.					O.O.S.		
6/3/2018	O.O.S.					O.O.S.		
6/4/2018	O.O.S.					O.O.S.		
6/5/2018	O.O.S.					O.O.S.		
6/6/2018	O.O.S.					O.O.S.		
6/7/2018	O.O.S.					O.O.S.		
6/8/2018	O.O.S.					O.O.S.		
6/9/2018	O.O.S.					O.O.S.		
6/10/2018	O.O.S.					O.O.S.		
6/11/2018	O.O.S.					O.O.S.		
6/12/2018	O.O.S.	11.8	22.1	11.8	10.3	O.O.S.	27.4	25.4
6/13/2018	O.O.S.					O.O.S.		
6/14/2018	O.O.S.					O.O.S.		
6/15/2018	O.O.S.					O.O.S.		
6/16/2018	O.O.S.					O.O.S.		
6/17/2018	O.O.S.					O.O.S.		
6/18/2018	O.O.S.					O.O.S.		
6/19/2018	O.O.S.					O.O.S.		
6/20/2018	O.O.S.					O.O.S.		
6/21/2018	O.O.S.					O.O.S.		
6/22/2018	O.O.S.					O.O.S.		
6/23/2018	O.O.S.					O.O.S.		
6/24/2018	O.O.S.					O.O.S.		
6/25/2018	O.O.S.					O.O.S.		
6/26/2018	O.O.S.	11.8	22	12.1	10.4	O.O.S.	27.3	25.1
6/27/2018	O.O.S.					O.O.S.		
6/28/2018	O.O.S.					O.O.S.		
6/29/2018	O.O.S.					O.O.S.		
6/30/2018	O.O.S.					O.O.S.		
7/1/2018	O.O.S.					O.O.S.		
7/2/2018	O.O.S.					O.O.S.		
7/3/2018	O.O.S.					O.O.S.		
7/4/2018	O.O.S.					O.O.S.		
7/5/2018	O.O.S.					O.O.S.		
7/6/2018	O.O.S.					O.O.S.		
7/7/2018	O.O.S.					O.O.S.		
7/8/2018	O.O.S.					O.O.S.		
7/9/2018	O.O.S.					O.O.S.		
7/10/2018	O.O.S.					O.O.S.		
7/11/2018	O.O.S.					O.O.S.		
7/12/2018	O.O.S.					O.O.S.		
7/13/2018	O.O.S.					O.O.S.		
7/14/2018	O.O.S.					O.O.S.		
7/15/2018	O.O.S.					O.O.S.		
7/16/2018	O.O.S.					O.O.S.		
7/17/2018	O.O.S.					O.O.S.		
7/18/2018	O.O.S.					O.O.S.		
7/19/2018	O.O.S.	11.8	21.9	12.4	10.6	O.O.S.	27.2	24.8
7/20/2018	O.O.S.					O.O.S.		
7/21/2018	O.O.S.					O.O.S.		
7/22/2018	O.O.S.					O.O.S.		
7/23/2018	O.O.S.					O.O.S.		
7/24/2018	O.O.S.					O.O.S.		
7/25/2018	O.O.S.					O.O.S.		
7/26/2018	O.O.S.	12.3	21	12.5	10.8	O.O.S.	28	25
7/27/2018	O.O.S.					O.O.S.		

7/28/2018	O.O.S.					O.O.S.				
7/29/2018	O.O.S.					O.O.S.				
7/30/2018	O.O.S.					O.O.S.				
7/31/2018	O.O.S.					O.O.S.				
8/1/2018	O.O.S.					O.O.S.				
8/2/2018	O.O.S.					O.O.S.				
8/3/2018	O.O.S.	12.5	22.4	12.4	10.8	O.O.S.	28.5	25	7	8.7
8/4/2018	O.O.S.					O.O.S.				
8/5/2018	O.O.S.					O.O.S.				
8/6/2018	O.O.S.					O.O.S.				
8/7/2018	O.O.S.					O.O.S.				
8/8/2018	O.O.S.					O.O.S.				
8/9/2018	O.O.S.					O.O.S.				
8/10/2018	O.O.S.					O.O.S.				
8/11/2018	O.O.S.					O.O.S.				
8/12/2018	O.O.S.					O.O.S.				
8/13/2018	O.O.S.					O.O.S.				
8/14/2018	O.O.S.					O.O.S.				
8/15/2018	O.O.S.					O.O.S.				
8/16/2018	O.O.S.					O.O.S.				
8/17/2018	O.O.S.					O.O.S.				
8/18/2018	O.O.S.	12.7	22.9	12.6	10.8	O.O.S.	29.3	25.3	7.6	8.5
8/19/2018	O.O.S.					O.O.S.				
8/20/2018	O.O.S.					O.O.S.				
8/21/2018	O.O.S.					O.O.S.				
8/22/2018	O.O.S.					O.O.S.				
8/23/2018	O.O.S.					O.O.S.				
8/24/2018	O.O.S.					O.O.S.				
8/25/2018	O.O.S.					O.O.S.				
8/26/2018	O.O.S.					O.O.S.				
8/27/2018	O.O.S.					O.O.S.				
8/28/2018	O.O.S.					O.O.S.				
8/29/2018	O.O.S.					O.O.S.				
8/30/2018	O.O.S.					O.O.S.				
8/31/2018	O.O.S.					O.O.S.				
9/1/2018	O.O.S.					O.O.S.				
9/2/2018	O.O.S.					O.O.S.				
9/3/2018	O.O.S.					O.O.S.				
9/4/2018	O.O.S.					O.O.S.				
9/5/2018	O.O.S.	13	22.8	12.7	11	O.O.S.	29.3	25.5	8	9.5
9/6/2018	O.O.S.					O.O.S.				
9/7/2018	O.O.S.					O.O.S.				
9/8/2018	O.O.S.					O.O.S.				
9/9/2018	O.O.S.					O.O.S.				
9/10/2018	O.O.S.					O.O.S.				
9/11/2018	O.O.S.					O.O.S.				
9/12/2018	O.O.S.					O.O.S.				
9/13/2018	O.O.S.					O.O.S.				
9/14/2018	O.O.S.					O.O.S.				
9/15/2018	O.O.S.					O.O.S.				
9/16/2018	O.O.S.					O.O.S.				
9/17/2018	O.O.S.					O.O.S.				
9/18/2018	O.O.S.					O.O.S.				
9/19/2018	O.O.S.					O.O.S.				
9/20/2018	O.O.S.	13	22.5	12.6	11	O.O.S.	29.3	25.2	8.5	9.6
9/21/2018	O.O.S.					O.O.S.				
9/22/2018	O.O.S.					O.O.S.				
9/23/2018	O.O.S.					O.O.S.				
9/24/2018	O.O.S.					O.O.S.				
9/25/2018	O.O.S.					O.O.S.				
9/26/2018	O.O.S.					O.O.S.				
9/27/2018	O.O.S.					O.O.S.				
9/28/2018	O.O.S.					O.O.S.				
9/29/2018	O.O.S.					O.O.S.				
9/30/2018	O.O.S.					O.O.S.				
10/1/2018	O.O.S.					O.O.S.				
10/2/2018	O.O.S.					O.O.S.				
10/3/2018	O.O.S.					O.O.S.				
10/4/2018	O.O.S.					O.O.S.				
10/5/2018	O.O.S.					O.O.S.				

10/6/2018	O.O.S.	13	23	12.9	11	O.O.S.	29.3	25.14	8.9	9.11
10/7/2018	O.O.S.					O.O.S.				
10/8/2018	O.O.S.					O.O.S.				
10/9/2018	O.O.S.					O.O.S.				
10/10/2018	O.O.S.					O.O.S.				
10/11/2018	O.O.S.					O.O.S.				
10/12/2018	O.O.S.					O.O.S.				
10/13/2018	O.O.S.					O.O.S.				
10/14/2018	O.O.S.					O.O.S.				
10/15/2018	O.O.S.					O.O.S.				
10/16/2018	O.O.S.					O.O.S.				
10/17/2018	O.O.S.					O.O.S.				
10/18/2018	O.O.S.					O.O.S.				
10/19/2018	O.O.S.					O.O.S.				
10/20/2018	O.O.S.					O.O.S.				
10/21/2018	O.O.S.	13.3	23.5	13.8	11.5	O.O.S.	29.3	25.8	8.4	9.6
10/22/2018	O.O.S.					O.O.S.				
10/23/2018	O.O.S.					O.O.S.				
10/24/2018	O.O.S.					O.O.S.				
10/25/2018	O.O.S.					O.O.S.				
10/26/2018	O.O.S.					O.O.S.				
10/27/2018	O.O.S.					O.O.S.				
10/28/2018	O.O.S.					O.O.S.				
10/29/2018	O.O.S.					O.O.S.				
10/30/2018	O.O.S.					O.O.S.				
10/31/2018	O.O.S.					O.O.S.				
11/1/2018	O.O.S.					O.O.S.				
11/2/2018	O.O.S.					O.O.S.				
11/3/2018	O.O.S.					O.O.S.				
11/4/2018	O.O.S.					O.O.S.				
11/5/2018	O.O.S.					O.O.S.				
11/6/2018	O.O.S.					O.O.S.				
11/7/2018	O.O.S.					O.O.S.				
11/8/2018	O.O.S.	13.6	23.9	16.5	12.2	O.O.S.	29.3	26	7.8	9.9
11/9/2018	O.O.S.					O.O.S.				
11/10/2018	O.O.S.					O.O.S.				
11/11/2018	O.O.S.					O.O.S.				
11/12/2018	O.O.S.					O.O.S.				
11/13/2018	O.O.S.					O.O.S.				
11/14/2018	O.O.S.					O.O.S.				
11/15/2018	O.O.S.					O.O.S.				
11/16/2018	O.O.S.					O.O.S.				
11/17/2018	O.O.S.					O.O.S.				
11/18/2018	O.O.S.					O.O.S.				
11/19/2018	O.O.S.					O.O.S.				
11/20/2018	O.O.S.	13.6	24.1	16.2	12.4	O.O.S.	29.3	26.1	8	9.9
11/21/2018	O.O.S.					O.O.S.				
11/22/2018	O.O.S.					O.O.S.				
11/23/2018	O.O.S.					O.O.S.				
11/24/2018	O.O.S.					O.O.S.				
11/25/2018	O.O.S.					O.O.S.				
11/26/2018	O.O.S.					O.O.S.				
11/27/2018	O.O.S.					O.O.S.				
11/28/2018	O.O.S.					O.O.S.				
11/29/2018	O.O.S.					O.O.S.				
11/30/2018	O.O.S.					O.O.S.				
12/1/2018	O.O.S.					O.O.S.				
12/2/2018	O.O.S.					O.O.S.				
12/3/2018	O.O.S.					O.O.S.				
12/4/2018	O.O.S.					O.O.S.				
12/5/2018	O.O.S.					O.O.S.				
12/6/2018	O.O.S.					O.O.S.				
12/7/2018	O.O.S.	13.5	24.4	16.6	12.6	O.O.S.	29.2	26.3	7.1	10.1
12/8/2018	O.O.S.					O.O.S.				
12/9/2018	O.O.S.					O.O.S.				
12/10/2018	O.O.S.					O.O.S.				
12/11/2018	O.O.S.					O.O.S.				
12/12/2018	O.O.S.					O.O.S.				
12/13/2018	O.O.S.					O.O.S.				
12/14/2018	O.O.S.					O.O.S.				

12/15/2018	O.O.S.					O.O.S.				
12/16/2018	O.O.S.					O.O.S.				
12/17/2018	O.O.S.					O.O.S.				
12/18/2018	O.O.S.					O.O.S.				
12/19/2018	O.O.S.					O.O.S.				
12/20/2018	O.O.S.					O.O.S.				
12/21/2018	O.O.S.	13.6	24.5	17	12.5	O.O.S.	29.3	26.4	6.8	10.2
12/22/2018	O.O.S.					O.O.S.				
12/23/2018	O.O.S.					O.O.S.				
12/24/2018	O.O.S.					O.O.S.				
12/25/2018	O.O.S.					O.O.S.				
12/26/2018	O.O.S.					O.O.S.				
12/27/2018	O.O.S.					O.O.S.				
12/28/2018	O.O.S.					O.O.S.				
12/29/2018	O.O.S.					O.O.S.				
12/30/2018	O.O.S.					O.O.S.				
12/31/2018	O.O.S.					O.O.S.				
	O.O.S.					O.O.S.				

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	*O.O.S.= Out of Service
1/1/2019										
1/2/2019										
1/3/2019										
1/4/2019	*O.O.S	13.6	24.7	17	12.7	*O.O.S.	29.3	26.5	6.7	10.4
1/5/2019										
1/6/2019										
1/7/2019										
1/8/2019										
1/9/2019										
1/10/2019										
1/11/2019										
1/12/2019										
1/13/2019										
1/14/2019	*O.O.S	13.6	24.8	17	12.7	*O.O.S	29.3	26.5	6.7	10.4
1/15/2019										
1/16/2019										
1/17/2019										
1/18/2019	*O.O.S	13.6	24.8	16.9	12.7	*O.O.S	29.3	26.5	6.6	10.4
1/19/2019										
1/20/2019										
1/21/2019										
1/22/2019										
1/23/2019										
1/24/2019										
1/25/2019	*O.O.S	13.6	24.9	16.8	12.7	*O.O.S	29.3	26.5	6.5	10.4
1/26/2019										
1/27/2019										
1/28/2019										
1/29/2019										
1/30/2019										
1/31/2019										
2/1/2019	*O.O.S	13.7	24.9	16.7	12.7	*O.O.S	29.3	26.5	6.5	10.5
2/2/2019										
2/3/2019										
2/4/2019										
2/5/2019										
2/6/2019										
2/7/2019	*O.O.S	13.7	24.9	16.6	12.7	*O.O.S	29.3	26.5	6.5	10.5
2/8/2019										
2/9/2019										
2/10/2019										
2/11/2019										
2/12/2019										
2/13/2019										
2/14/2019										
2/15/2019	*O.O.S	13.7	25	16.6	12.6	*O.O.S	29.3	26.6	6.4	10.5
2/16/2019										
2/17/2019										
2/18/2019										
2/19/2019										
2/20/2019										
2/21/2019	*O.O.S	13.7	25	16.6	12.7	*O.O.S	29.3	26.5	6.3	10.5
2/22/2019										
2/23/2019										
2/24/2019										
2/25/2019										
2/26/2019										
2/27/2019										
2/28/2019										
3/1/2019	*O.O.S	13.7	25	16.6	12.7	*O.O.S	29.3	26.6	6.3	10.5
3/2/2019										
3/3/2019										
3/4/2019				</						

3/11/2019								
3/12/2019								
3/13/2019								
3/14/2019 *O.O.S	13.7		16.3	12.2 *O.O.S	29.3	26.6		
3/15/2019		25					6.1	10.3
3/16/2019								
3/17/2019								
3/18/2019								
3/19/2019								
3/20/2019								
3/21/2019								
3/22/2019 *O.O.S	13.7	25	16	12.3 *O.O.S	29.3	26.6	6	10.2
3/23/2019								
3/24/2019								
3/25/2019								
3/26/2019								
3/27/2019								
3/28/2019								
3/29/2019								
3/30/2019								
3/31/2019								
4/1/2019								
4/2/2019								
4/3/2019								
4/4/2019 *O.O.S	13.7	24.9	15.8	12.4 *O.O.S	29.4	26.6	5.9	10.1
4/5/2019								
4/6/2019								
4/7/2019								
4/8/2019								
4/9/2019								
4/10/2019								
4/11/2019								
4/12/2019 *O.O.S	13.7	24.9	15.8	12.4 *O.O.S	29.3	26.6	5.9	10.2
4/13/2019								
4/14/2019								
4/15/2019								
4/16/2019								
4/17/2019								
4/18/2019 *O.O.S	13.7	24.8	15.8	12.6 *O.O.S	29.4	26.6	6	10.2
4/19/2019								
4/20/2019								
4/21/2019								
4/22/2019								
4/23/2019								
4/24/2019								
4/25/2019 *O.O.S	13.7	24.8	15.6	12.2 *O.O.S	29.4	26.6	5.9	10.2
4/26/2019								
4/27/2019								
4/28/2019								
4/29/2019								
4/30/2019								
5/1/2019								
5/2/2019 *O.O.S	13.7	24.7	14	11.6 *O.O.S	29.4	26.5		
5/3/2019							5.8	10.3
5/4/2019								
5/5/2019								
5/6/2019								
5/7/2019								
5/8/2019								
5/9/2019								
5/10/2019								
5/11/2019								
5/12/2019								
5/13/2019								
5/14/2019								
5/15/2019								
5/16/2019 *O.O.S	13.2	24.5	12.7	11.2 *O.O.S	29.3	26.3	5.9	10.3
5/17/2019								
5/18/2019								
5/19/2019								
5/20/2019								

7/31/2019										
8/1/2019										
8/2/2019										
8/3/2019										
8/4/2019										
8/5/2019	O.O.S.	10.8	19.7	12.5	9.6	O.O.S.	23.1	23.7	4.4	8.4
8/6/2019										
8/7/2019										
8/8/2019										
8/9/2019										
8/10/2019										
8/11/2019										
8/12/2019	O.O.S.	10.5	20.3	12.4	9.5	O.O.S.	23.9	24	4.6	8.8
8/13/2019										
8/14/2019										
8/15/2019										
8/16/2019										
8/17/2019										
8/18/2019										
8/19/2019										
8/20/2019	O.O.S.	12	21	12.4	10.7	O.O.S.	25.2	24.4	5.2	9.4
8/21/2019										
8/22/2019										
8/23/2019										
8/24/2019										
8/25/2019										
8/26/2019										
8/27/2019										
8/28/2019	O.O.S.	12.7	21.5	12.6	11	O.O.S.	26.4	24.7	5.6	9.7
8/29/2019										
8/30/2019										
8/31/2019										
9/1/2019										
9/2/2019										
9/3/2019										
9/4/2019										
9/5/2019										
9/6/2019										
9/7/2019										
9/8/2019										
9/9/2019										
9/10/2019										
9/11/2019										
9/12/2019										
9/13/2019	O.O.S.	13	22.3	12.6	11.1	O.O.S.	27.8	25.2	6	8.5
9/14/2019										
9/15/2019										
9/16/2019										
9/17/2019										
9/18/2019										
9/19/2019										
9/20/2019	O.O.S.	12.9	22.5	12.6	11.1	O.O.S.	28.3	25.2	6.3	9.6
9/21/2019										
9/22/2019										
9/23/2019										
9/24/2019										
9/25/2019										
9/26/2019	O.O.S.	12.8	22.7	12.7	11.1	O.O.S.	28.8	25.3	6.5	9.6
9/27/2019										
9/28/2019										
9/29/2019										
9/30/2019										
10/1/2019										
10/2/2019										
10/3/2019										
10/4/2019	O.O.S.	12.8	23	12.9	11.1	O.O.S.	29.2	25.5	6.7	10.1
10/5/2019										
10/6/2019										
10/7/2019										
10/8/2019										
10/9/2019	O.O.S.	12.8	23.2	13.2	11.2	O.O.S.	29.2	25.5	6.7	10.1

10/10/2019										
10/11/2019										
10/12/2019										
10/13/2019										
10/14/2019										
10/15/2019										
10/16/2019										
10/17/2019										
10/18/2019										
10/19/2019										
10/20/2019										
10/21/2019										
10/22/2019	O.O.S.	12.6	23.4	12.6	10.6	O.O.S.	29.2	25.6	6.6	10.3
10/23/2019										
10/24/2019										
10/25/2019										
10/26/2019										
10/27/2019										
10/28/2019										
10/29/2019										
10/30/2019										
10/31/2019										
11/1/2019										
11/2/2019										
11/3/2019										
11/4/2019										
11/5/2019	O.O.S.	12.1	23.6	13.7	10.8	O.O.S.	29.2	25.8	6.3	10.8
11/6/2019										
11/7/2019										
11/8/2019										
11/9/2019										
11/10/2019										
11/11/2019										
11/12/2019										
11/13/2019										
11/14/2019										
11/15/2019										
11/16/2019										
11/17/2019										
11/18/2019										
11/19/2019										
11/20/2019	O.O.S.	11.6	23.9	13.9	10.7	O.O.S.	29.2	25.9	6.2	11
11/21/2019										
11/22/2019										
11/23/2019										
11/24/2019										
11/25/2019										
11/26/2019										
11/27/2019										
11/28/2019										
11/29/2019										
11/30/2019										
12/1/2019										
12/2/2019										
12/3/2019										
12/4/2019										
12/5/2019										
12/6/2019										
12/7/2019										
12/8/2019										
12/9/2019										
12/10/2019										
12/11/2019	O.O.S.	10.6	23.7	13.6	10	O.O.S.	29.2	25.8	5.9	10.9
12/12/2019										
12/13/2019										
12/14/2019										
12/15/2019										
12/16/2019				</						

12/20/2019
12/21/2019
12/22/2019
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12/26/2019
12/27/2019
12/28/2019
12/29/2019
12/30/2019
12/31/2019

City of Lafayette - Goosehaven Complex Observation Wells											*O.O.S.= Out of Service
	#1	#2	#3	#4	#5	# 6	# 7	# 8	# 9	# 10	
1/1/2020	O.O.S		10.6	23.8	13.6	9.9	O.O.S	29.2	25.8	5.9	10.9
1/2/2020	O.O.S					O.O.S					
1/3/2020	O.O.S					O.O.S					
1/4/2020	O.O.S					O.O.S					
1/5/2020	O.O.S					O.O.S					
1/6/2020	O.O.S					O.O.S					
1/7/2020	O.O.S					O.O.S					
1/8/2020	O.O.S					O.O.S					
1/9/2020	O.O.S					O.O.S					
1/10/2020	O.O.S					O.O.S					
1/11/2020	O.O.S					O.O.S					
1/12/2020	O.O.S					O.O.S					
1/13/2020	O.O.S					O.O.S					
1/14/2020	O.O.S	10.8		24	13.5	9.9	O.O.S	29.2	25.8	5.9	10.8
1/15/2020	O.O.S					O.O.S					
1/16/2020	O.O.S					O.O.S					
1/17/2020	O.O.S					O.O.S					
1/18/2020	O.O.S					O.O.S					
1/19/2020	O.O.S					O.O.S					
1/20/2020	O.O.S					O.O.S					
1/21/2020	O.O.S					O.O.S					
1/22/2020	O.O.S					O.O.S					
1/23/2020	O.O.S					O.O.S					
1/24/2020	O.O.S					O.O.S					
1/25/2020	O.O.S					O.O.S					
1/26/2020	O.O.S					O.O.S					
1/27/2020	O.O.S	10.8		24	13.4	9.8	O.O.S	29.2	25.9	6	10.8
1/28/2020	O.O.S					O.O.S					
1/29/2020	O.O.S					O.O.S					
1/30/2020	O.O.S					O.O.S					
1/31/2020	O.O.S					O.O.S					
2/1/2020	O.O.S					O.O.S					
2/2/2020	O.O.S					O.O.S					
2/3/2020	O.O.S					O.O.S					
2/4/2020	O.O.S					O.O.S					
2/5/2020	O.O.S					O.O.S					
2/6/2020	O.O.S					O.O.S					
2/7/2020	O.O.S					O.O.S					
2/8/2020	O.O.S					O.O.S					
2/9/2020	O.O.S					O.O.S					
2/10/2020	O.O.S					O.O.S					
2/11/2020	O.O.S					O.O.S					
2/12/2020	O.O.S					O.O.S					
2/13/2020	O.O.S	10.6		24	13.5	9.7	O.O.S	29.2	25.9	6	10.7
2/14/2020	O.O.S					O.O.S					
2/15/2020	O.O.S					O.O.S					
2/16/2020	O.O.S					O.O.S					
2/17/2020	O.O.S					O.O.S					
2/18/2020	O.O.S					O.O.S					
2/19/2020	O.O.S					O.O.S					
2/20/2020	O.O.S					O.O.S					
2/21/2020	O.O.S					O.O.S					
2/22/2020	O.O.S					O.O.S					
2/23/2020	O.O.S					O.O.S					
2/24/2020	O.O.S	10.5		23.9	13.5	9.5	O.O.S	29.2	25.8	6	10.7
2/25/2020	O.O.S					O.O.S					
2/26/2020	O.O.S					O.O.S					
2/27/2020	O.O.S					O.O.S					
2/28/2020	O.O.S					O.O.S					
2/29/2020	O.O.S					O.O.S					
3/1/2020	O.O.S					O.O.S					
3/2/2020	O.O.S					O.O.S					
3/3/2020	O.O.S	10.3		23.8	13.5	9.4	O.O.S	29.2	25.8	5.9	10.7
3/4/2020	O.O.S					O.O.S					
3/5/2020	O.O.S					O.O.S					
3/6/2020	O.O.S					O.O.S					
3/7/2020	O.O.S					O.O.S					
3/8/2020	O.O.S					O.O.S					
3/9/2020	O.O.S					O.O.S					

3/10/2020	O.O.S					O.O.S				
3/11/2020	O.O.S					O.O.S				
3/12/2020	O.O.S					O.O.S				
3/13/2020	O.O.S					O.O.S				
3/14/2020	O.O.S					O.O.S				
3/15/2020	O.O.S					O.O.S				
3/16/2020	O.O.S					O.O.S				
3/17/2020	O.O.S					O.O.S				
3/18/2020	O.O.S					O.O.S				
3/19/2020	O.O.S					O.O.S				
3/20/2020	O.O.S					O.O.S				
3/21/2020	O.O.S					O.O.S				
3/22/2020	O.O.S					O.O.S				
3/23/2020	O.O.S					O.O.S				
3/24/2020	O.O.S					O.O.S				
3/25/2020	O.O.S					O.O.S				
3/26/2020	O.O.S					O.O.S				
3/27/2020	O.O.S					O.O.S				
3/28/2020	O.O.S					O.O.S				
3/29/2020	O.O.S					O.O.S				
3/30/2020	O.O.S					O.O.S				
3/31/2020	O.O.S	9.7	23.2	13.4	9	O.O.S	29.2	25.5	5.7	9.9
4/1/2020	O.O.S					O.O.S				
4/2/2020	O.O.S					O.O.S				
4/3/2020	O.O.S					O.O.S				
4/4/2020	O.O.S					O.O.S				
4/5/2020	O.O.S					O.O.S				
4/6/2020	O.O.S					O.O.S				
4/7/2020	O.O.S	9.7	23.3	13.5	9	O.O.S	29.2	25.4	5.8	9.7
4/8/2020	O.O.S					O.O.S				
4/9/2020	O.O.S					O.O.S				
4/10/2020	O.O.S					O.O.S				
4/11/2020	O.O.S					O.O.S				
4/12/2020	O.O.S					O.O.S				
4/13/2020	O.O.S					O.O.S				
4/14/2020	O.O.S					O.O.S				
4/15/2020	O.O.S					O.O.S				
4/16/2020	O.O.S					O.O.S				
4/17/2020	O.O.S					O.O.S				
4/18/2020	O.O.S					O.O.S				
4/19/2020	O.O.S					O.O.S				
4/20/2020	O.O.S					O.O.S				
4/21/2020	O.O.S					O.O.S				
4/22/2020	O.O.S					O.O.S				
4/23/2020	O.O.S					O.O.S				
4/24/2020	O.O.S	10	22.9	13.6	9.70 ?	O.O.S	29.2	25.3	5.5	9.5
4/25/2020	O.O.S					O.O.S				
4/26/2020	O.O.S					O.O.S				
4/27/2020	O.O.S					O.O.S				
4/28/2020	O.O.S					O.O.S				
4/29/2020	O.O.S					O.O.S				
4/30/2020	O.O.S					O.O.S				
5/1/2020	O.O.S					O.O.S				
5/2/2020	O.O.S					O.O.S				
5/3/2020	O.O.S					O.O.S				
5/4/2020	O.O.S					O.O.S				
5/5/2020	O.O.S					O.O.S				
5/6/2020	O.O.S					O.O.S				
5/7/2020	O.O.S					O.O.S				
5/8/2020	O.O.S					O.O.S				
5/9/2020	O.O.S					O.O.S				
5/10/2020	O.O.S					O.O.S				
5/11/2020	O.O.S					O.O.S				
5/12/2020	O.O.S					O.O.S				
5/13/2020	O.O.S					O.O.S				
5/14/2020	O.O.S					O.O.S				
5/15/2020	O.O.S	12	23	12.6	10.6	O.O.S	29.2	25.4	5.8	8.5
5/16/2020	O.O.S					O.O.S				
5/17/2020	O.O.S					O.O.S				
5/18/2020	O.O.S					O.O.S				
5/19/2020	O.O.S					O.O.S				

5/20/2020	O.O.S					O.O.S				
5/21/2020	O.O.S					O.O.S				
5/22/2020	O.O.S					O.O.S				
5/23/2020	O.O.S					O.O.S				
5/24/2020	O.O.S					O.O.S				
5/25/2020	O.O.S					O.O.S				
5/26/2020	O.O.S					O.O.S				
5/27/2020	O.O.S					O.O.S				
5/28/2020	O.O.S					O.O.S				
5/29/2020	O.O.S					O.O.S				
5/30/2020	O.O.S					O.O.S				
5/31/2020	O.O.S					O.O.S				
6/1/2020	O.O.S					O.O.S				
6/2/2020	O.O.S	9.9	21.9	12.3	9.3	O.O.S	29.2	24.7	5.9	9.1
6/3/2020	O.O.S					O.O.S				
6/4/2020	O.O.S					O.O.S				
6/5/2020	O.O.S					O.O.S				
6/6/2020	O.O.S					O.O.S				
6/7/2020	O.O.S					O.O.S				
6/8/2020	O.O.S	10.5	21.1	12.4	9.7	O.O.S	26.3	24.2	3.7	9.6
6/9/2020	O.O.S					O.O.S				
6/10/2020	O.O.S					O.O.S				
6/11/2020	O.O.S					O.O.S				
6/12/2020	O.O.S					O.O.S				
6/13/2020	O.O.S					O.O.S				
6/14/2020	O.O.S					O.O.S				
6/15/2020	O.O.S					O.O.S				
6/16/2020	O.O.S					O.O.S				
6/17/2020	O.O.S					O.O.S				
6/18/2020	O.O.S					O.O.S				
6/19/2020	O.O.S					O.O.S				
6/20/2020	O.O.S					O.O.S				
6/21/2020	O.O.S					O.O.S				
6/22/2020	O.O.S					O.O.S				
6/23/2020	O.O.S					O.O.S				
6/24/2020	O.O.S					O.O.S				
6/25/2020	O.O.S					O.O.S				
6/26/2020	O.O.S					O.O.S				
6/27/2020	O.O.S					O.O.S				
6/28/2020	O.O.S					O.O.S				
6/29/2020	O.O.S					O.O.S				
6/30/2020	O.O.S					O.O.S				
7/1/2020	O.O.S	10.2	20.6	12.5	9.5	O.O.S	26.9	24.1	5.2	9.1
7/2/2020	O.O.S					O.O.S				
7/3/2020	O.O.S					O.O.S				
7/4/2020	O.O.S					O.O.S				
7/5/2020	O.O.S					O.O.S				
7/6/2020	O.O.S					O.O.S				
7/7/2020	O.O.S					O.O.S				
7/8/2020	O.O.S					O.O.S				
7/9/2020	O.O.S					O.O.S				
7/10/2020	O.O.S					O.O.S				
7/11/2020	O.O.S					O.O.S				
7/12/2020	O.O.S					O.O.S				
7/13/2020	O.O.S	10.2	18.2	12.5	9.3	O.O.S	24.7	23	4.9	9.9
7/14/2020	O.O.S					O.O.S				
7/15/2020	O.O.S					O.O.S				
7/16/2020	O.O.S					O.O.S				
7/17/2020	O.O.S					O.O.S				
7/18/2020	O.O.S					O.O.S				
7/19/2020	O.O.S					O.O.S				
7/20/2020	O.O.S					O.O.S				
7/21/2020	O.O.S					O.O.S				
7/22/2020	O.O.S					O.O.S				
7/23/2020	O.O.S					O.O.S				
7/24/2020	O.O.S	10.8	21	12.8	9.6	O.O.S	24.7	24.3	5.1	10.3
7/25/2020	O.O.S					O.O.S				
7/26/2020	O.O.S					O.O.S				
7/27/2020	O.O.S					O.O.S				
7/28/2020	O.O.S					O.O.S				
7/29/2020	O.O.S					O.O.S				

7/30/2020	O.O.S					O.O.S				
7/31/2020	O.O.S					O.O.S				
8/1/2020	O.O.S					O.O.S				
8/2/2020	O.O.S					O.O.S				
8/3/2020	O.O.S					O.O.S				
8/4/2020	O.O.S					O.O.S				
8/5/2020	O.O.S					O.O.S				
8/6/2020	O.O.S					O.O.S				
8/7/2020	O.O.S					O.O.S				
8/8/2020	O.O.S					O.O.S				
8/9/2020	O.O.S					O.O.S				
8/10/2020	O.O.S					O.O.S				
8/11/2020	O.O.S					O.O.S				
8/12/2020	O.O.S					O.O.S				
8/13/2020	O.O.S					O.O.S				
8/14/2020	O.O.S					O.O.S				
8/15/2020	O.O.S					O.O.S				
8/16/2020	O.O.S					O.O.S				
8/17/2020	O.O.S					O.O.S				
8/18/2020	O.O.S					O.O.S				
8/19/2020	O.O.S					O.O.S				
8/20/2020	O.O.S	11.2	22.4	12.8	9.5	O.O.S	25.8	24.6	6.1	9.9
8/21/2020	O.O.S					O.O.S				
8/22/2020	O.O.S					O.O.S				
8/23/2020	O.O.S					O.O.S				
8/24/2020	O.O.S					O.O.S				
8/25/2020	O.O.S					O.O.S				
8/26/2020	O.O.S					O.O.S				
8/27/2020	O.O.S					O.O.S				
8/28/2020	O.O.S					O.O.S				
8/29/2020	O.O.S					O.O.S				
8/30/2020	O.O.S					O.O.S				
8/31/2020	O.O.S					O.O.S				
9/1/2020	O.O.S					O.O.S				
9/2/2020	O.O.S					O.O.S				
9/3/2020	O.O.S					O.O.S				
9/4/2020	O.O.S					O.O.S				
9/5/2020	O.O.S					O.O.S				
9/6/2020	O.O.S					O.O.S				
9/7/2020	O.O.S					O.O.S				
9/8/2020	O.O.S					O.O.S				
9/9/2020	O.O.S					O.O.S				
9/10/2020	O.O.S					O.O.S				
9/11/2020	O.O.S					O.O.S				
9/12/2020	O.O.S					O.O.S				
9/13/2020	O.O.S					O.O.S				
9/14/2020	O.O.S					O.O.S				
9/15/2020	O.O.S	12.7	23.6	13	10.7	O.O.S	29.2	25.7	7.8	9.9
9/16/2020	O.O.S					O.O.S				
9/17/2020	O.O.S					O.O.S				
9/18/2020	O.O.S					O.O.S				
9/19/2020	O.O.S					O.O.S				
9/20/2020	O.O.S	12.7	23.6	13	10.8	O.O.S	29.2	25.5	7.9	10.2
9/21/2020	O.O.S					O.O.S				
9/22/2020	O.O.S					O.O.S				
9/23/2020	O.O.S					O.O.S				
9/24/2020	O.O.S					O.O.S				
9/25/2020	O.O.S					O.O.S				
9/26/2020	O.O.S					O.O.S				
9/27/2020	O.O.S	13	23.7	13	11.1	O.O.S	29.2	25.5	8.2	10.1
9/28/2020	O.O.S					O.O.S				
9/29/2020	O.O.S					O.O.S				
9/30/2020	O.O.S					O.O.S				
10/1/2020	O.O.S					O.O.S				
10/2/2020	O.O.S					O.O.S				
10/3/2020	O.O.S					O.O.S				
10/4/2020	O.O.S	13	23.8	13.1	11.2	O.O.S	29.2	25.7	8.4	10.9
10/5/2020	O.O.S					O.O.S				
10/6/2020	O.O.S					O.O.S				
10/7/2020	O.O.S					O.O.S				
10/8/2020	O.O.S					O.O.S				

10/9/2020	O.O.S				O.O.S					
10/10/2020	O.O.S				O.O.S					
10/11/2020	O.O.S	13.2	23.9	13.3	11.3	O.O.S	29.2	25.6	8.6	11.3
10/12/2020	O.O.S				O.O.S					
10/13/2020	O.O.S				O.O.S					
10/14/2020	O.O.S				O.O.S					
10/15/2020	O.O.S				O.O.S					
10/16/2020	O.O.S				O.O.S					
10/17/2020	O.O.S				O.O.S					
10/18/2020	O.O.S	13.3	24	13.5	11.4	O.O.S	29.2	25.7	8.7	11.3
10/19/2020	O.O.S				O.O.S					
10/20/2020	O.O.S				O.O.S					
10/21/2020	O.O.S				O.O.S					
10/22/2020	O.O.S				O.O.S					
10/23/2020	O.O.S				O.O.S					
10/24/2020	O.O.S				O.O.S					
10/25/2020	O.O.S				O.O.S					
10/26/2020	O.O.S				O.O.S					
10/27/2020	O.O.S				O.O.S					
10/28/2020	O.O.S	13.5	24.2	14.3	12	O.O.S	29.2	25.8	8.5	11.7
10/29/2020	O.O.S				O.O.S					
10/30/2020	O.O.S				O.O.S					
10/31/2020	O.O.S				O.O.S					
11/1/2020	O.O.S	13.5	24.3	15.1	12.3	O.O.S	29.2	25.9	8.4	11.8
11/2/2020	O.O.S				O.O.S					
11/3/2020	O.O.S				O.O.S					
11/4/2020	O.O.S				O.O.S					
11/5/2020	O.O.S				O.O.S					
11/6/2020	O.O.S				O.O.S					
11/7/2020	O.O.S				O.O.S					
11/8/2020	O.O.S	13.5	24.4	15.7	12.5	O.O.S	29.2	25.9	8.3	11.9
11/9/2020	O.O.S				O.O.S					
11/10/2020	O.O.S				O.O.S					
11/11/2020	O.O.S				O.O.S					
11/12/2020	O.O.S				O.O.S					
11/13/2020	O.O.S				O.O.S					
11/14/2020	O.O.S				O.O.S					
11/15/2020	O.O.S	13.5	24.5	16.1	12.5	O.O.S	29..2	26	8.2	12
11/16/2020	O.O.S				O.O.S					
11/17/2020	O.O.S				O.O.S					
11/18/2020	O.O.S				O.O.S					
11/19/2020	O.O.S				O.O.S					
11/20/2020	O.O.S				O.O.S					
11/21/2020	O.O.S				O.O.S					
11/22/2020	O.O.S	13.5	24.6	16.3	12.1	O.O.S	29.2	26.1	8.1	12
11/23/2020	O.O.S				O.O.S					
11/24/2020	O.O.S				O.O.S					
11/25/2020	O.O.S				O.O.S					
11/26/2020	O.O.S				O.O.S					
11/27/2020	O.O.S				O.O.S					
11/28/2020	O.O.S				O.O.S					
11/29/2020	O.O.S	13.5	24.7	16.4	12.1	O.O.S	29.2	26.2	8	11.9
11/30/2020	O.O.S				O.O.S					
12/1/2020	O.O.S				O.O.S					
12/2/2020	O.O.S				O.O.S					
12/3/2020	O.O.S				O.O.S					
12/4/2020	O.O.S				O.O.S					
12/5/2020	O.O.S				O.O.S					
12/6/2020	O.O.S	13.5	24.8	16.4	12.1	O.O.S	29.2	26.5	7.9	11.7
12/7/2020	O.O.S				O.O.S					
12/8/2020	O.O.S				O.O.S					
12/9/2020	O.O.S				O.O.S					
12/10/2020	O.O.S				O.O.S					
12/11/2020	O.O.S				O.O.S					
12/12/2020	O.O.S				O.O.S					
12/13/2020	O.O.S	13.5	24.9	16.5	12.3	O.O.S	29.2	26.4	7.8	11.7
12/14/2020	O.O.S				O.O.S					
12/15/2020	O.O.S				O.O.S					
12/16/2020	O.O.S				O.O.S					
12/17/2020	O.O.S				O.O.S					
12/18/2020	O.O.S				O.O.S					

12/19/2020	O.O.S				O.O.S					
12/20/2020	O.O.S	13.5	25	16.6	12.3	O.O.S	29.2	26.4	7.7	11.7
12/21/2020	O.O.S					O.O.S				
12/22/2020	O.O.S					O.O.S				
12/23/2020	O.O.S					O.O.S				
12/24/2020	O.O.S					O.O.S				
12/25/2020	O.O.S					O.O.S				
12/26/2020	O.O.S					O.O.S				
12/27/2020	O.O.S	13.5	25	16.7	12.4	O.O.S	29.2	26.4	7.6	11.6
12/28/2020	O.O.S					O.O.S				
12/29/2020	O.O.S					O.O.S				
12/30/2020	O.O.S					O.O.S				
12/31/2020	O.O.S					O.O.S				

City of Lafayette - Goosehaven Complex Observation Wells

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	*O.O.S.= Out of Servi
1/1/2021	O.O.S					O.O.S					
1/2/2021	O.O.S					O.O.S					
1/3/2021	O.O.S		13.5	25.1	16.7	12.5	O.O.S	29.2	26.5	7.5	11.6
1/4/2021	O.O.S					O.O.S					
1/5/2021	O.O.S					O.O.S					
1/6/2021	O.O.S					O.O.S					
1/7/2021	O.O.S					O.O.S					
1/8/2021	O.O.S					O.O.S					
1/9/2021	O.O.S					O.O.S					
1/10/2021	O.O.S		13.5	25.1	16.8	12.6	O.O.S	29.2	26.5	7.4	11.5
1/11/2021	O.O.S					O.O.S					
1/12/2021	O.O.S					O.O.S					
1/13/2021	O.O.S					O.O.S					
1/14/2021	O.O.S					O.O.S					
1/15/2021	O.O.S					O.O.S					
1/16/2021	O.O.S					O.O.S					
1/17/2021	O.O.S					O.O.S					
1/18/2021	O.O.S		13.5	25.2	16.3	12.7	O.O.S	29.2	26.5	7.3	11.5
1/19/2021	O.O.S					O.O.S					
1/20/2021	O.O.S					O.O.S					
1/21/2021	O.O.S					O.O.S					
1/22/2021	O.O.S					O.O.S					
1/23/2021	O.O.S					O.O.S					
1/24/2021	O.O.S		13.5	25.2	16.9	12.8	O.O.S	29.2	26.5	7.3	11.4
1/25/2021	O.O.S					O.O.S					
1/26/2021	O.O.S					O.O.S					
1/27/2021	O.O.S					O.O.S					
1/28/2021	O.O.S					O.O.S					
1/29/2021	O.O.S					O.O.S					
1/30/2021	O.O.S					O.O.S					
1/31/2021	O.O.S		13.5	25.2	17	12.8	O.O.S	29.2	26.5	7.3	11.4
2/1/2021	O.O.S					O.O.S					
2/2/2021	O.O.S					O.O.S					
2/3/2021	O.O.S					O.O.S					
2/4/2021	O.O.S					O.O.S					
2/5/2021	O.O.S					O.O.S					
2/6/2021	O.O.S					O.O.S					
2/7/2021	O.O.S		13.5	25.3	17	12.8	O.O.S	29.2	26.5	7.2	11.3
2/8/2021	O.O.S					O.O.S					
2/9/2021	O.O.S					O.O.S					
2/10/2021	O.O.S					O.O.S					
2/11/2021	O.O.S					O.O.S					
2/12/2021	O.O.S					O.O.S					
2/13/2021	O.O.S					O.O.S					
2/14/2021	O.O.S		13.6	25.3	17	12.9	O.O.S	29.2	26.5	7.2	11.3
2/15/2021	O.O.S					O.O.S					
2/16/2021	O.O.S					O.O.S					
2/17/2021	O.O.S					O.O.S					
2/18/2021	O.O.S					O.O.S					
2/19/2021	O.O.S					O.O.S					
2/20/2021	O.O.S					O.O.S					
2/21/2021	O.O.S		13.5	25.4	17.1	12.7	O.O.S	29.2	26.5	7.1	11.3
2/22/2021	O.O.S					O.O.S					
2/23/2021	O.O.S					O.O.S					
2/24/2021	O.O.S					O.O.S					
2/25/2021	O.O.S					O.O.S					
2/26/2021	O.O.S					O.O.S					
2/27/2021	O.O.S					O.O.S					
2/28/2021	O.O.S		13.5	25.4	16.9	12.6	O.O.S	29.2	26.5	7.1	11.3
3/1/2021	O.O.S					O.O.S					
3/2/2021	O.O.S					O.O.S					
3/3/2021	O.O.S					O.O.S					
3/4/2021	O.O.S					O.O.S					
3/5/2021	O.O.S					O.O.S					

3/6/2021	O.O.S					O.O.S				
3/7/2021	O.O.S	13.5	25.4	16.8	12.7	O.O.S	29.2	26.5	7	11.3
3/8/2021	O.O.S					O.O.S				
3/9/2021	O.O.S					O.O.S				
3/10/2021	O.O.S					O.O.S				
3/11/2021	O.O.S					O.O.S				
3/12/2021	O.O.S					O.O.S				
3/13/2021	O.O.S					O.O.S				
3/14/2021	O.O.S					O.O.S				
3/15/2021	O.O.S					O.O.S				
3/16/2021	O.O.S					O.O.S				
3/17/2021	O.O.S					O.O.S				
3/18/2021	O.O.S					O.O.S				
3/19/2021	O.O.S	13.6	25.2	16.4	12.4	O.O.S	29.2	26.5	6.9	11.2
3/20/2021	O.O.S					O.O.S				
3/21/2021	O.O.S					O.O.S				
3/22/2021	O.O.S					O.O.S				
3/23/2021	O.O.S					O.O.S				
3/24/2021	O.O.S					O.O.S				
3/25/2021	O.O.S					O.O.S				
3/26/2021	O.O.S					O.O.S				
3/27/2021	O.O.S					O.O.S				
3/28/2021	O.O.S	13.5	24.8	16.1	11.7	O.O.S	29.2	26.3	6.6	10.8
3/29/2021	O.O.S					O.O.S				
3/30/2021	O.O.S					O.O.S				
3/31/2021	O.O.S					O.O.S				
4/1/2021	O.O.S					O.O.S				
4/2/2021	O.O.S					O.O.S				
4/3/2021	O.O.S					O.O.S				
4/4/2021	O.O.S	13.3	24.7	16	11.7	O.O.S	29.2	26.3	6.6	10.8
4/5/2021	O.O.S					O.O.S				
4/6/2021	O.O.S					O.O.S				
4/7/2021	O.O.S					O.O.S				
4/8/2021	O.O.S					O.O.S				
4/9/2021	O.O.S					O.O.S				
4/10/2021	O.O.S					O.O.S				
4/11/2021	O.O.S					O.O.S				
4/12/2021	O.O.S	13.2	24.7	15.8	11.7	O.O.S	29.2	26.4	6.7	10.8
4/13/2021	O.O.S					O.O.S				
4/14/2021	O.O.S					O.O.S				
4/15/2021	O.O.S					O.O.S				
4/16/2021	O.O.S					O.O.S				
4/17/2021	O.O.S					O.O.S				
4/18/2021	O.O.S	13.5	24.7	15.8	11.9	O.O.S	29.2	26.3	6.7	10.8
4/19/2021	O.O.S					O.O.S				
4/20/2021	O.O.S					O.O.S				
4/21/2021	O.O.S					O.O.S				
4/22/2021	O.O.S					O.O.S				
4/23/2021	O.O.S					O.O.S				
4/24/2021	O.O.S					O.O.S				
4/25/2021	O.O.S	13.1	24.7	15.9	11.7	O.O.S	29.2	26.3	6.6	10.8
4/26/2021	O.O.S					O.O.S				
4/27/2021	O.O.S					O.O.S				
4/28/2021	O.O.S					O.O.S				
4/29/2021	O.O.S					O.O.S				
4/30/2021	O.O.S					O.O.S				
5/1/2021	O.O.S					O.O.S				
5/2/2021	O.O.S					O.O.S				
5/3/2021	O.O.S					O.O.S				
5/4/2021	O.O.S					O.O.S				
5/5/2021	O.O.S					O.O.S				
5/6/2021	O.O.S					O.O.S				
5/7/2021	O.O.S					O.O.S				
5/8/2021	O.O.S					O.O.S				
5/9/2021	O.O.S					O.O.S				
5/10/2021	O.O.S					O.O.S				

5/11/2021	O.O.S	O.O.S
5/12/2021	O.O.S	O.O.S
5/13/2021	O.O.S	O.O.S
5/14/2021	O.O.S	O.O.S
5/15/2021	O.O.S	O.O.S
5/16/2021	O.O.S	O.O.S
5/17/2021	O.O.S	O.O.S
5/18/2021	O.O.S	O.O.S
5/19/2021	O.O.S	O.O.S
5/20/2021	O.O.S	O.O.S
5/21/2021	O.O.S	O.O.S
5/22/2021	O.O.S	O.O.S
5/23/2021	O.O.S	O.O.S
5/24/2021	O.O.S	O.O.S
5/25/2021	O.O.S	O.O.S
5/26/2021	O.O.S	O.O.S
5/27/2021	O.O.S	O.O.S
5/28/2021	O.O.S	O.O.S
5/29/2021	O.O.S	O.O.S
5/30/2021	O.O.S	O.O.S
5/31/2021	O.O.S	O.O.S
6/1/2021	O.O.S	O.O.S
6/2/2021	O.O.S	O.O.S
6/3/2021	O.O.S	O.O.S
6/4/2021	O.O.S	O.O.S
6/5/2021	O.O.S	O.O.S
6/6/2021	O.O.S	O.O.S
6/7/2021	O.O.S	O.O.S
6/8/2021	O.O.S	O.O.S
6/9/2021	O.O.S	O.O.S
6/10/2021	O.O.S	O.O.S
6/11/2021	O.O.S	O.O.S
6/12/2021	O.O.S	O.O.S
6/13/2021	O.O.S	O.O.S
6/14/2021	O.O.S	O.O.S
6/15/2021	O.O.S	O.O.S
6/16/2021	O.O.S	O.O.S
6/17/2021	O.O.S	O.O.S
6/18/2021	O.O.S	O.O.S
6/19/2021	O.O.S	O.O.S
6/20/2021	O.O.S	O.O.S
6/21/2021	O.O.S	O.O.S
6/22/2021	O.O.S	O.O.S
6/23/2021	O.O.S	O.O.S
6/24/2021	O.O.S	O.O.S
6/25/2021	O.O.S	O.O.S
6/26/2021	O.O.S	O.O.S
6/27/2021	O.O.S	O.O.S
6/28/2021	O.O.S	O.O.S
6/29/2021	O.O.S	O.O.S
6/30/2021	O.O.S	O.O.S
7/1/2021	O.O.S	O.O.S
7/2/2021	O.O.S	O.O.S
7/3/2021	O.O.S	O.O.S
7/4/2021	O.O.S	O.O.S
7/5/2021	O.O.S	O.O.S
7/6/2021	O.O.S	O.O.S
7/7/2021	O.O.S	O.O.S
7/8/2021	O.O.S	O.O.S
7/9/2021	O.O.S	O.O.S
7/10/2021	O.O.S	O.O.S
7/11/2021	O.O.S	O.O.S
7/12/2021	O.O.S	O.O.S
7/13/2021	O.O.S	O.O.S
7/14/2021	O.O.S	O.O.S
7/15/2021	O.O.S	O.O.S

7/16/2021	O.O.S	O.O.S
7/17/2021	O.O.S	O.O.S
7/18/2021	O.O.S	O.O.S
7/19/2021	O.O.S	O.O.S
7/20/2021	O.O.S	O.O.S
7/21/2021	O.O.S	O.O.S
7/22/2021	O.O.S	O.O.S
7/23/2021	O.O.S	O.O.S
7/24/2021	O.O.S	O.O.S
7/25/2021	O.O.S	O.O.S
7/26/2021	O.O.S	O.O.S
7/27/2021	O.O.S	O.O.S
7/28/2021	O.O.S	O.O.S
7/29/2021	O.O.S	O.O.S
7/30/2021	O.O.S	O.O.S
7/31/2021	O.O.S	O.O.S
8/1/2021	O.O.S	O.O.S
8/2/2021	O.O.S	O.O.S
8/3/2021	O.O.S	O.O.S
8/4/2021	O.O.S	O.O.S
8/5/2021	O.O.S	O.O.S
8/6/2021	O.O.S	O.O.S
8/7/2021	O.O.S	O.O.S
8/8/2021	O.O.S	O.O.S
8/9/2021	O.O.S	O.O.S
8/10/2021	O.O.S	O.O.S
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8/13/2021	O.O.S	O.O.S
8/14/2021	O.O.S	O.O.S
8/15/2021	O.O.S	O.O.S
8/16/2021	O.O.S	O.O.S
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8/18/2021	O.O.S	O.O.S
8/19/2021	O.O.S	O.O.S
8/20/2021	O.O.S	O.O.S
8/21/2021	O.O.S	O.O.S
8/22/2021	O.O.S	O.O.S
8/23/2021	O.O.S	O.O.S
8/24/2021	O.O.S	O.O.S
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8/26/2021	O.O.S	O.O.S
8/27/2021	O.O.S	O.O.S
8/28/2021	O.O.S	O.O.S
8/29/2021	O.O.S	O.O.S
8/30/2021	O.O.S	O.O.S
8/31/2021	O.O.S	O.O.S
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9/2/2021	O.O.S	O.O.S
9/3/2021	O.O.S	O.O.S
9/4/2021	O.O.S	O.O.S
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11/3/2021	O.O.S	O.O.S
11/4/2021	O.O.S	O.O.S
11/5/2021	O.O.S	O.O.S
11/6/2021	O.O.S	O.O.S
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12/12/2021	O.O.S	O.O.S
12/13/2021	O.O.S	O.O.S
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12/16/2021	O.O.S	O.O.S
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12/28/2021	O.O.S	O.O.S
12/29/2021	O.O.S	O.O.S
12/30/2021	O.O.S	O.O.S
12/31/2021	O.O.S	O.O.S



**GOOSE HAVEN RESERVOIR #2
COMPLEX EXPANSION (M-2010-071)
TEMPORARY SUBSTITUTE
WATER SUPPLY PLAN**

Prepared for:

Rock Products of Colorado, LLC
PO Box 983
Broomfield, CO 80038

Prepared by:

Weiland, Inc.
PO Box 18087
Boulder, CO 80308

May 2021

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Appendix I

Table AI.1 Monthly Net Evaporation
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Weather Station
Sample Accounting Worksheet

1.0 INTRODUCTION

Rock Products LLC and the City of Lafayette contracted Weiland, Inc. (WI) to complete the well application/temporary substitute water supply plan (SWSP) for the Goose Haven Reservoir #2 Complex Expansion (M-2010-071). The pit is operated by Rock Products, LLC and owned by the City of Lafayette. This plan is an update to the previous plan and covers May 2021 – April 2022.

1.1. LEGAL DESCRIPTION AND SITE LOCATION

The legal description of the site is: A parcel of land in Sections 15, 21 and 22, Township 1 N, Range 69 West of the 6th PM. A site index map is given in Figure 1.

1.2. JUSTIFICATION AND NEED

Rock Products, LLC provides sand gravel for construction of roads and development of the infrastructure of Colorado. Their need is to excavate gravel at the property below to keep up with their demand for services. Additionally, there is a need to construct a water storage reservoir to meet the demands of the City of Lafayette's water supply.

1.3. PROJECT DESCRIPTION

Conventional dry mining methods shall be employed for the operation which involves construction of dewatering trenches to drain the gravel deposit. The dewatering trenches are pumped to sediment ponds on the surface and ultimately discharged to Boulder Creek, via the City's return flow canal.

The extraction of sand and gravel is projected to be completed by the end of 2020.

Currently, Cell 4 has less than a 1 year reserve of aggregate to be extracted. Following the final extraction of sand and gravel, dewatering will persist throughout the construction of compacted clay liner in Cells 2, 2A and 4. Dewatering pump rates have been monitored and recorded throughout the mining operation. When the pumps are shut off, lagged depletions to the stream due to pumping will be calculated and replacements will be made (likely late 2023).

2.0 OPERATIONAL WATER BALANCE

2.1. PREDICTED OPERATIONAL DEPLETIONS

2.1.1. Evaporative Losses

The gross surface water evaporation calculation is based on a free water surface evaporation of 40.0 inches year⁻¹ (Farnsworth and Peck 1982). Historical climate data shows mean temperature below 32 degrees for Dec-Jan, therefore ice cover for those months prevents evaporation.

Currently, approximately 3.61 acres of groundwater is exposed in Cell 2A. **Figure 2- Site Plan-Sheet-1** shows those areas labeled 1-12.

Currently, approximately 3.61 acres of groundwater is exposed in Cell 2A. **Figure 2- Site Plan -Sheet-2** shows those areas labeled 13-15.

Currently, approximately 2.24 acres of groundwater is exposed in Cell 4. **Figure 2- Site Plan -Sheet-3** shows those areas labeled 16-23.

Table AI.1 Monthly Net Evaporation gives the monthly calculation for predicted evaporative losses for the duration of the plan.

2.1.2. Mined Losses and Dust Control Losses

The total annual consumptive use for dust control will be 3.75 acre-ft. The monthly distribution of water that will be used for dust control is given in **Table AI.2. Monthly Mined Water Extracted and Dust Control**.

For the duration of the plan, water lost due to pore water extracted with the mined product is calculated to be 6.06 acre-ft. The calculations are based on gravel that is 4% water by weight. The combined Water lost due to pore water extracted with the mined product and dust control is calculated to be 9.81 acre-ft

2.2. NET WATER DEPLETION

The net water loss per year can be written as:

$$\text{(Monthly Lagged Evaporative Loss)} + \text{(Monthly Volume of Water Extracted)} = \text{(Net Stream Depletion / Replacement)}$$

The monthly sums of evaporative losses and water extracted have been lagged utilizing the IDS-AWAS model. The model was run to predict actual monthly stream depletions as they occur (non-steady state).

The monthly water loss or potential injury to the Boulder Creek is 39.23 acre-ft. and is given in **Table AI.3. Total Net Water Loss / Replacement Requirement**. This total value includes a 25% contingency to account for potential deviations from the plan.

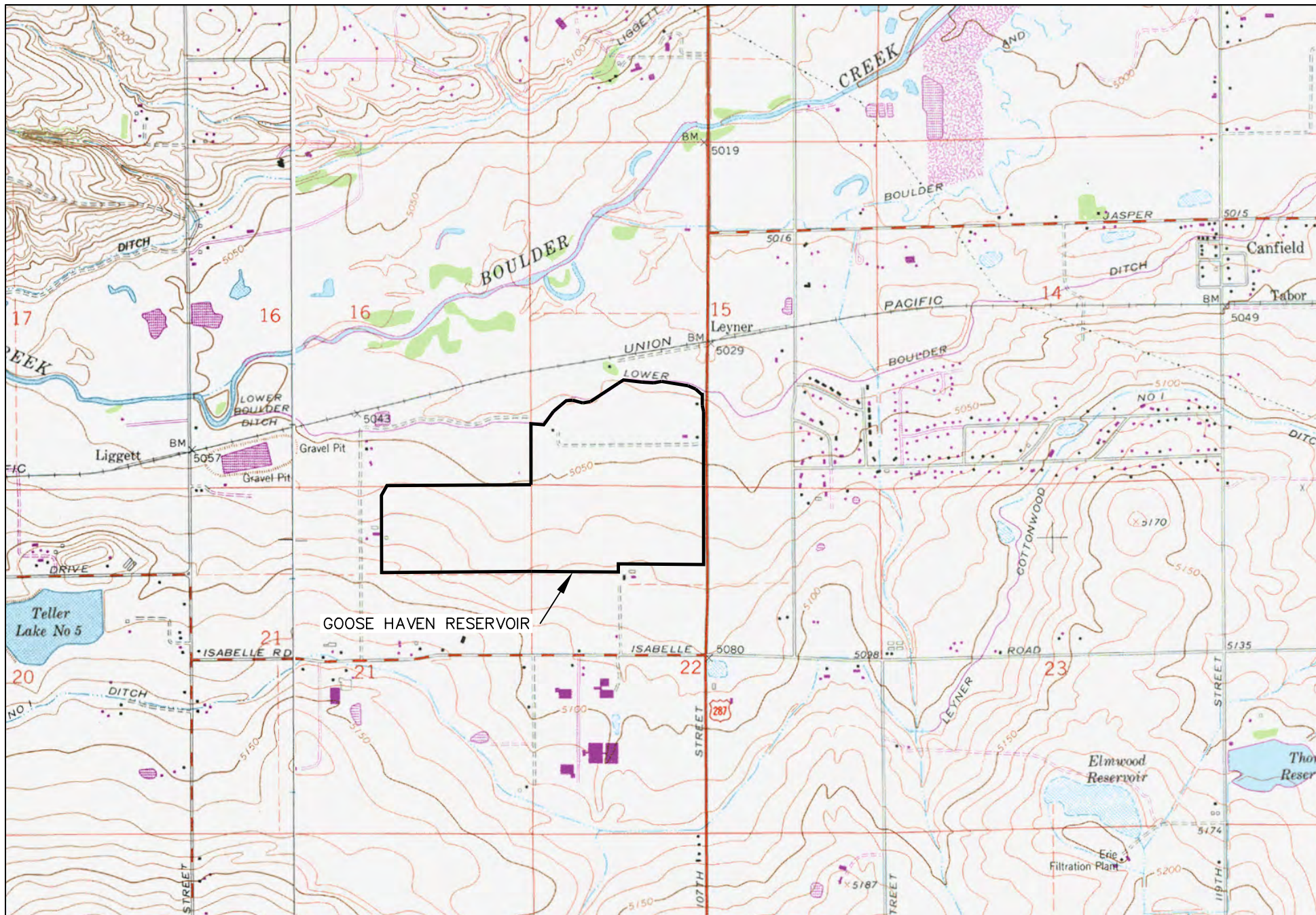
2.3. REPLACEMENT

Replacement water will come from fully consumable water owned by the City of Lafayette. Replacement water deliveries will occur at the City's WWTP located at 0 E County Line Rd, Lafayette. Replacements will be made to Boulder Creek via Coal Creek. There are no intervening water users on Boulder Creek between the point of injury and the confluence of Boulder Creek and Coal Creek. A transit loss of 15% has been assigned to the reach of Coal Creek from the City's WWTP to the confluence of Coal Creek and Boulder Creek.

3.0 REFERENCES

Farnsworth, R. K., Thompson, E. S., and Peck, P.L., 1982 "Evaporation Atlas for the Contiguous 48 United States". NOAA Technical Report NWS 33, Office of Hydrology National Weather Service, Washington D.C.

Schroeder, D.R., 1987, "Analytical Stream Depletion Model". Office of the State Engineer Division of Water Resources, State of Colorado.



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REV	DESCRIPTION	DATE	APPROVED



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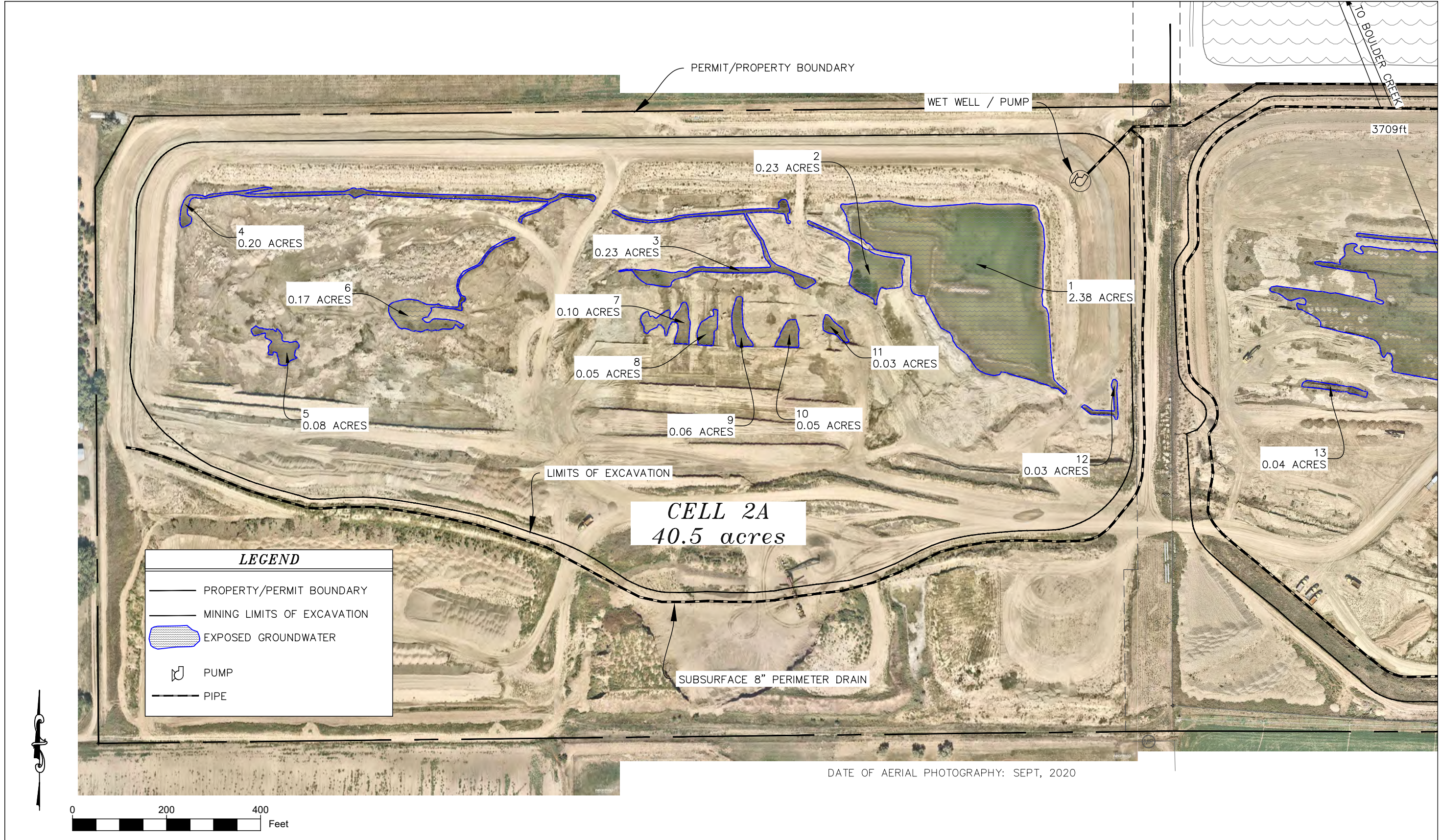
GOOSE HAVEN RESERVOIR #2 - COMPLEX EXPANSION TEMPORARY SUBSTITUTE WATER SUPPLY PLAN

LAFAYETTE, CO

ROCK PRODUCTS, LLC

FIGURE 1 SITE LOCATION MAP

SCALE 1"=2,000'	DWG NO. SITE LOCATION.DWG	REV. REV
DRAWN BY CTW	CHECKED BY PEW	DATE 11/15/11
		SHEET 1 OF 1



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

WSE **Weiland, Inc.**
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GOOSE HAVEN RESERVOIR #2 - COMPLEX EXPANSION

TEMPORARY SUBSTITUTE WATER SUPPLY PLAN

LAFAYETTE, CO

PREPARED FOR: ROCK PRODUCTS, LLC

FIGURE 2			
SITE PLAN SHEET-1			
SCALE 1"=200'	DWG NO. FIGURE 2.DWG	REV.	REV
DRAWN BY: CTW	CHECKED BY: PFW	DATE: 04/15/2021	SHEET 1 OF 3



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GOOSE HAVEN RESERVOIR #2 - COMPLEX EXPANSION

TEMPORARY SUBSTITUTE WATER SUPPLY PLAN

LAFAYETTE, CO

PREPARED FOR: **ROCK PRODUCTS, LLC**

FIGURE 2

SITE PLAN SHEET-2

SCALE 1"=200'	DWG NO. FIGURE 2.DWG	REV. REV
DRAWN BY: CTW	CHECKED BY: PFW	DATE: 04/15/2021
SHEET 2 OF 3		



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GOOSE HAVEN RESERVOIR #2 - COMPLEX EXPANSION
TEMPORARY SUBSTITUTE WATER SUPPLY PLAN

LAFAYETTE, CO

PREPARED FOR:

ROCK PRODUCTS, LLC

FIGURE 2
SITE PLAN SHEET-3

SCALE 1"=200'	DWG NO. FIGURE 2.DWG	REV. REV
DRAWN BY: CTW	CHECKED BY: PFW	DATE: 04/15/2021
		SHEET 3 OF 3

Table AI.1 Monthly Net Evaporation 2020

Cell 2 - 2021

Areas 13-16 3.61 acres

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Monthly	Gross Free	Mean	Effective	Monthly	Free Water	Net
Month	Fraction of	Surface	Rainfall	Precipitation	Potential	Surface Area	Evaporation
	Evaporation	Evaporation			Evaporation		
		[in.]	[in.]	[in.]	[in.]	[acre]	[acre-ft.]
May-21	0.12	41.00	2.27	1.59	3.33	3.61	1.00
Jun-21	0.15	41.00	1.35	0.95	5.00	3.61	1.50
Jul-21	0.15	41.00	1.12	0.78	5.37	3.61	1.61
Aug-21	0.14	41.00	1.03	0.72	4.81	3.61	1.45
Sep-21	0.10	41.00	1.36	0.95	3.15	3.61	0.95
Oct-21	0.07	41.00	1.06	0.74	2.13	3.61	0.64
Nov-21	0.04	41.00	0.59	0.41	1.23	3.61	0.37
Dec-21	0.03	41.00	0.40	0.28	0.00	3.61	0.00
Jan-22	0.03	41.00	0.43	0.30	0.00	3.61	0.00
Feb-22	0.04	41.00	0.44	0.31	1.13	3.61	0.34
Mar-22	0.06	41.00	0.89	0.62	1.63	3.61	0.49
Apr-22	0.09	41.00	1.89	1.32	2.37	3.61	0.71
	1.00		12.83	8.98	30.14		9.07

Cell 2A 2021

Areas 1-12 3.61 acres

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Monthly	Gross Free	Mean	Effective	Monthly	Free Water	Net
Month	Fraction of	Surface	Rainfall	Precipitation	Potential	Surface Area	Evaporation
	Evaporation	Evaporation			Evaporation		
		[in.]	[in.]	[in.]	[in.]	[acre]	[acre-ft.]
May-21	0.12	41.00	2.27	1.73	3.19	3.61	0.96
Jun-21	0.15	41.00	1.35	1.22	4.73	3.61	1.42
Jul-21	0.15	41.00	1.12	0.79	5.36	3.61	1.61
Aug-21	0.14	41.00	1.03	0.88	4.66	3.61	1.40
Sep-21	0.10	41.00	1.36	0.87	3.23	3.61	0.97
Oct-21	0.07	41.00	1.06	0.93	1.94	3.61	0.58
Nov-21	0.04	41.00	0.59	0.48	1.16	3.61	0.35
Dec-21	0.03	41.00	0.40	0.32	0.00	3.61	0.00
Jan-21	0.03	41.00	0.43	0.28	0.00	3.61	0.00
Feb-21	0.04	41.00	0.44	0.27	1.17	3.61	0.35
Mar-21	0.06	41.00	0.89	0.77	1.49	3.61	0.45
Apr-21	0.09	41.00	1.89	1.19	2.50	3.61	0.75
totals	1.00		12.83	9.72	29.43		8.85

Cell 4 - 2021

Areas 17-23 2.24 acres

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Monthly	Gross Free	Mean	Effective	Monthly	Free Water	Net
Month	Fraction of	Surface	Rainfall	Precipitation	Potential	Surface Area	Evaporation
	Evaporation	Evaporation			Evaporation		
		[in.]	[in.]	[in.]	[in.]	[acre]	[acre-ft.]
May-21	0.12	41.00	2.27	1.59	3.33	2.24	0.62
Jun-21	0.15	41.00	1.35	0.95	5.00	2.24	0.93
Jul-21	0.15	41.00	1.12	0.78	5.37	2.24	1.00
Aug-21	0.14	41.00	1.03	0.72	4.81	2.24	0.90
Sep-21	0.10	41.00	1.36	0.95	3.15	2.24	0.59
Oct-21	0.07	41.00	1.06	0.74	2.13	2.24	0.40
Nov-21	0.04	41.00	0.59	0.41	1.23	2.24	0.23
Dec-21	0.03	41.00	0.40	0.28	0.00	2.24	0.00
Jan-22	0.03	41.00	0.43	0.30	0.00	2.24	0.00
Feb-22	0.04	41.00	0.44	0.31	1.13	2.24	0.21
Mar-22	0.06	41.00	0.89	0.62	1.63	2.24	0.30
Apr-22	0.09	41.00	1.89	1.32	2.37	2.24	0.44
	1.00		12.83	8.98	30.14		5.63

Notes:

- (1) = Monthly fraction of evaporation for elevations below 6500 ft from Guidelines for Substitute Water Supply Plans.
- (2) = Gross free water surface evaporation from NOAA Technical Report NWS 33
- (3) = Mean Rainfall - See Table AI.5
- (4) = Effective Rainfall = 70% Mean Rainfall
- (5) = Column (1) * Column (2) - Column (4)
- (6) = Total predicted free water surface area
- (7) = (Column (5)/12)* Column (6)

Table AI.2. Monthly Water Extracted - Mined Product and Dust Control

	(1)	(2)	(3)	(4)	(5)
Month	Monthly Fraction of Annual Extraction	Monthly Gravel Extraction	Monthly Volume of Water Extracted	Volume of Water Used for Dust Control	Total
	[1]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]
May-21	0.12	25,000	0.74	0.31	1.05
Jun-21	0.12	25,000	0.74	0.50	1.24
Jul-21	0.06	13,000	0.38	0.50	0.88
Aug-21	0.12	25,000	0.74	0.50	1.24
Sep-21	0.10	20,000	0.59	0.31	0.90
Oct-21	0.11	22,000	0.65	0.31	0.96
Nov-21	0.07	15,000	0.44	0.31	0.75
Dec-21	0.05	10,000	0.29	0.13	0.42
Jan-22	0.05	10,000	0.29	0.13	0.42
Feb-22	0.04	8,000	0.24	0.13	0.36
Mar-22	0.08	17,000	0.50	0.31	0.81
Apr-22	0.08	16,000	0.47	0.31	0.78
totals	1.000	206,000	6.06	3.75	9.81

Notes:

(1) = Monthly fraction of extraction

(2) = Column (1) x 206,000 tons

(3) = Column (2) x (2000 lbs/ton) x (0.04) x (1/62.4 ft³/lbs) x (1/43,560 acre-ft/ft³)

(4) = Monthly distribution of groundwater to be used for dust control

(5) = Totals

Table AI.3. Total Net Water Loss / Replacement Requirement

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Month	Monthly Evaporative Loss Cell 2	Monthly Evaporative Loss Cell 4	Monthly Evaporative Loss Cell 2A	Monthly Volume of Mined & Dust Water	Total Unlagged Depletions	Total Lagged Depletions	Total Lagged Depletions+ 25% Contingency + 15% Transit Loss
	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]
May-21	1.00	0.62	0.96	1.05	3.63	1.70	2.39
Jun-21	1.50	0.93	1.42	1.24	5.10	1.86	2.61
Jul-21	1.61	1.00	1.61	0.88	5.11	2.13	2.98
Aug-21	1.45	0.90	1.40	1.24	4.98	2.52	3.52
Sep-21	0.95	0.59	0.97	0.90	3.41	2.90	4.06
Oct-21	0.64	0.40	0.58	0.96	2.58	3.20	4.48
Nov-21	0.37	0.23	0.35	0.75	1.70	3.34	4.68
Dec-21	0.00	0.00	0.00	0.42	0.42	3.34	4.68
Jan-22	0.00	0.00	0.00	0.42	0.42	1.92	2.69
Feb-22	0.34	0.21	0.35	0.36	1.26	1.79	2.51
Mar-22	0.49	0.30	0.45	0.81	2.06	1.67	2.34
Apr-22	0.71	0.44	0.75	0.78	2.69	1.64	2.29
totals	9.07	5.63	8.85	9.81	33.36	28.02	39.23

(1) = Column (7) from Cell 2 AI.1

(2) = Column (7) from Cell 4 AI.1

(3) = Column (7) from Cell 5 AI.1

(4) = Column (5) from AI.2

(5) = Sum of Columns (1-4)

(6) = Column (5) Lagged in Real Time with IDS AWAS (See AI.4)

(2020 lagged depletions based on accounting)

(7) = Column (6) + 25% Contingency for Uncertainty + 15% Transit Loss

for Deliveries to Boulder Creek Via Coal Creek = Column (6) + (Column (6) * 0.40)

AI.4. AWAS Lagged Depletions Output

Boundary = Alluvial Aquifer

Distance to Boundary = 4,400ft

Transmissivity = 44,883 gal/day/ft (K=600ft/day, b=10ft)

Specific Yield=0.2

Average Distance to Well=3,709 ft

Year	Time Since Mining Began	Dep. Rate	Vol. of Dep.	Vol. of Dep. This Step
	[month]	[c.f.s.]	[acre-ft.]	[acre-ft.]
May-20	85	0.01	63.18	0.76
Jun-20	86	0.01	63.88	0.70
Jul-20	87	0.01	64.55	0.67
Aug-20	88	0.01	65.24	0.69
Sep-20	89	0.01	66.02	0.78
Oct-20	90	0.02	66.94	0.92
Nov-20	91	0.02	68.05	1.11
Dec-20	92	0.02	69.42	1.37
Jan-21	93	0.03	71.04	1.62
Feb-21	94	0.03	72.86	1.82
Mar-21	95	0.03	74.79	1.94
Apr-21	96	0.03	76.76	1.97
May-21	97	0.03	78.68	1.92
Jun-21	98	0.03	80.48	1.79
Jul-21	99	0.03	82.15	1.67
Aug-21	100	0.03	83.79	1.64
Sep-21	101	0.03	85.49	1.70
Oct-21	102	0.03	87.35	1.86
Nov-21	103	0.04	89.48	2.13
Dec-21	104	0.05	92.00	2.52
Jan-22	105	0.05	94.90	2.90
Feb-22	106	0.05	98.10	3.20
Mar-22	107	0.06	101.44	3.34
Apr-22	108	0.05	104.78	3.34

Table AI.5.Precipitation Data for NCWCD Longmont South (103) Weather Station

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1994	0.43	0.61	0.76	2.29	0.61	1.23	0.37	0.91	0.71	1.46	1.51	0.28
1995	0.28	0.62	0.57	2.21	6.07	3.71	0.29	0.47	1.20	0.13	0.55	0.07
1996	1.10	0.13	1.18	0.58	2.72	1.76	2.06	0.63	3.52	0.39	0.62	0.18
1997	0.48	0.71	0.44	3.23	1.16	3.04	1.21	2.14	1.00	1.25	0.68	0.38
1998	0.11	0.22	1.45	2.47	0.73	0.75	0.82	0.96	0.25	1.07	0.68	0.66
1999	0.25	0.06	0.56	5.10	1.18	0.49	2.12	1.08	1.39	0.65	0.62	0.33
2000	0.24	0.21	1.07	0.67	1.80	0.68	1.15	0.69	1.58	0.48	0.56	0.28
2001	0.53	0.36	1.24	2.08	2.60	0.68	1.02	0.56	0.21	0.15	0.59	0.20
2002	0.62	0.38	0.57	0.18	2.16	0.94	0.04	0.60	0.97	1.04	0.50	0.03
2003	0.01	0.53	1.65	1.76	1.92	2.28	0.32	2.71	0.32	0.03	0.63	0.36
2004	0.62	0.43	0.31	3.00	1.10	2.53	2.20	2.17	2.27	0.80	1.13	0.16
2005	0.84	0.21	1.14	2.13	1.54	2.49	0.49	1.66	0.32	2.40	0.21	0.22
2006	0.21	0.22	0.98	0.42	0.60	0.21	2.24	0.67	0.65	2.39	0.46	0.99
2007	0.54	0.34	1.42	1.65	1.26	0.22	0.53	1.31	2.07	1.22	0.26	1.02
2008	0.05	0.27	0.72	0.45	2.07	1.21	0.00	2.24	1.52	0.32	0.32	0.51
2009	0.16	0.13	0.76	2.79	1.86	1.93	1.30	0.09	0.38	1.69	0.64	0.94
2010	0.34	0.75	1.16	2.93	1.61	1.72	1.06	0.65	0.10	0.82	0.54	0.27
2011	0.26	0.43	0.19	1.88	3.95	0.79	2.28	0.41	1.49	1.36	0.39	0.71
2012	0.15	0.72	0.00	0.95	1.55	0.28	1.57	0.11	1.13	0.99	0.34	0.17
2013	0.16	0.62	0.77	2.30	1.76	0.33	0.66	1.24	8.88	1.19	0.21	0.27
2014	1.01	0.28	0.98	0.99	2.01	0.47	0.93	0.72	1.27	0.84	0.55	0.56
2015	0.23	1.33	0.32	3.24	6.28	1.12	0.82	0.66	0.09	1.91	1.75	0.73
2016	0.39	0.66	1.53	2.09	0.61							
2017	0.91	0.25	0.87	1.61	4.79	0.12	0.23	1.39	1.66	1.83	0.45	0.28
2018	0.32	0.61	1.47	0.92	4.81	2.28	2.15	1.24	0.59	1.16	0.55	0.10
2019	0.89	0.24	1.07	1.14	2.27	2.58	2.25	0.48	0.52	0.95	0.04	
Ave.	0.43	0.44	0.89	1.89	2.27	1.35	1.12	1.03	1.36	1.06	0.59	0.40

2020 GOOSE HAVEN RESERVOIR EXPANSION #2

MONTHLY WATER ACCOUNTING WORKSHEET 2020

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Month	Gross Evaporation	Net Unit Evaporation	Pit Size	Dewatering Pump Rate	Exposed Groundwater Area	Net Evaporation	Aggregate Mined	Water in Mined Product	Water Used for Dust Suppression	Operational Losses	Lagged Effect on Stream	Transit Loss	Total Replacement Requirement	Actual Replacement Delivery	Net Effect on Stream
	[ft]	[ft]	[acres]	[pump rate]	[acres]	[acre-ft]	[tons]	[acre-ft]	[gallons]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]	[acre-ft]
January	0.10	0.00	62.00	100.00	0.00	0.00	8,654	0.25	0.00	0.000	0.25	0.777	0.117	0.894	0.196
February	0.12	0.10	62.00	125.00	3.79	0.37	7,587	0.22	1,000.00	0.003	0.60	0.722	0.108	0.831	0.199
March	0.19	0.12	62.00	150.00	3.79	0.47	17,722	0.52	81,463.33	0.250	1.24	0.682	0.102	0.784	0.217
April	0.31	0.21	62.00	150.00	3.79	0.79	15,386	0.45	97,755.99	0.300	1.54	0.679	0.102	0.781	0.247
May	0.41	0.27	62.00	200.00	3.79	1.01	24,068	0.71	162,926.65	0.500	2.22	0.723	0.108	0.831	0.269
June	0.50	0.39	62.00	200.00	3.79	1.49	24,063	0.71	162,926.65	0.500	2.70	0.812	0.122	0.933	0.287
July	0.51	0.45	62.00	200.00	3.79	1.69	12,690	0.37	162,926.65	0.500	2.57	0.948	0.142	1.090	0.293
August	0.46	0.39	62.00	200.00	3.79	1.47	24,236	0.71	162,926.65	0.500	2.69	1.108	0.166	1.275	0.308
September	0.34	0.27	62.00	200.00	3.79	1.02	19,869	0.58	162,926.65	0.500	2.11	1.266	0.190	1.456	0.495
October	0.24	0.16	62.00	200.00	3.79	0.61	21,464	0.63	162,926.65	0.500	1.74	1.399	0.210	1.609	0.342
November	0.14	0.10	62.00	200.00	3.79	0.37	14,949	0.44	97,755.99	0.300	1.11	1.484	0.223	1.707	0.316
December	0.10	0.00	62.00	200.00	3.79	0.00	8,168	0.24	65,170.66	0.200	0.44	1.514	0.227	1.741	0.276
TOTALS	3.42	2.45					198,856			4.05	19.20	12.11	1.82	13.93	3.446
MAXIMUMS							400,000	ton/yr	3.75 acre-ft/yr						

- Notes:
- Actual Monthly Production Amounts are in Italics.

(1) = (Monthly fraction of evaporation) for elevations below 6500 ft per SEO guidelines X (40 inches per year) Gross free water surface evaporation from NOAA Technical Report NWS 33

(2) = Column (1) - 70% of average precipitation (1948-2000) as recorded at Longmont

(3) = Estimate of Pit Size in Acres

(4) = Total Pumped per Totalizing Flow Meter Readings

(5) = (Estimate of Linear distance of Dewatering Trench X 4ft/ 43,560) + (Estimate of any pond area in acres)

(6) = Column (2) X Column (4)

(7) = Actual Aggregate Mined in Tons

(8) = {Column (6) X 2000lbs/ton X 0.04} / {8.34lbs H₂O per gal. X 325,851 gallons per acre-ft}

(9) = Estimate of water used for dust supression

(10) = Column (5) + Column (7) + Column (8)

(11) = Stream Depletion as Determined by IDS AWAS

(12) =Transit Loss of 15%

(13) = Column (10) + Column (11)

(14) = Monthy Replacement Delivery By the City of Lafayette

(15) = Column(13) - Column (12). Positive value indicates accretion

LAFAYETTE OWNERSHIP IN DITCH AND RESERVOIR COMPANIES

Company/Transfer Case

Coal Ridge Ditch Company

80CW468

90CW108

New Consolidated Lower Boulder

Reservoir and Ditch Company

Preferred Shares

80CW468

90CW108

97CW195

Common Shares

80CW468

90CW108

97CW195

Base Line Land and Reservoir Company

80CW468

90CW108

97CW195

Davidson Ditch and Reservoir Company

W-8346-B(2)-76 and

W-8348(2)-76

W-8348(1)-76

80CW469

85CW119

Untransferred³

Dry Creek No. 2 Ditch Company

W-8346-B(1)-76

W-8346-B(2)-76 and

W-8348(2)-76

Goodhue Ditch and Reservoir Company

W-8348(1)-76

80CW469

85CW119

Henry Waneka Mutual Reservoir Company

85CW119

Howard Ditch Company

C.A. No. 8960

C.A. No. 14025

W-8346-A-76

**Leyner-Cottonwood Consolidated
Ditch Company**

80CW468

85CW119

South Boulder and Bear Creek Ditch Company

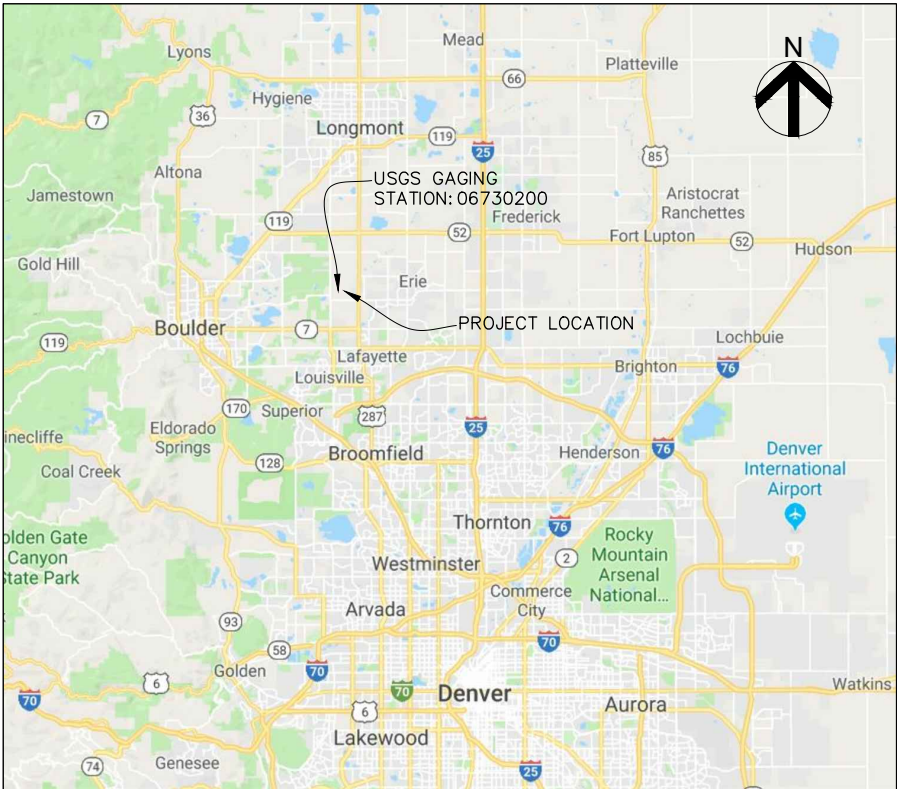
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GOOSE HAVEN RESERVOIR CELL 2A

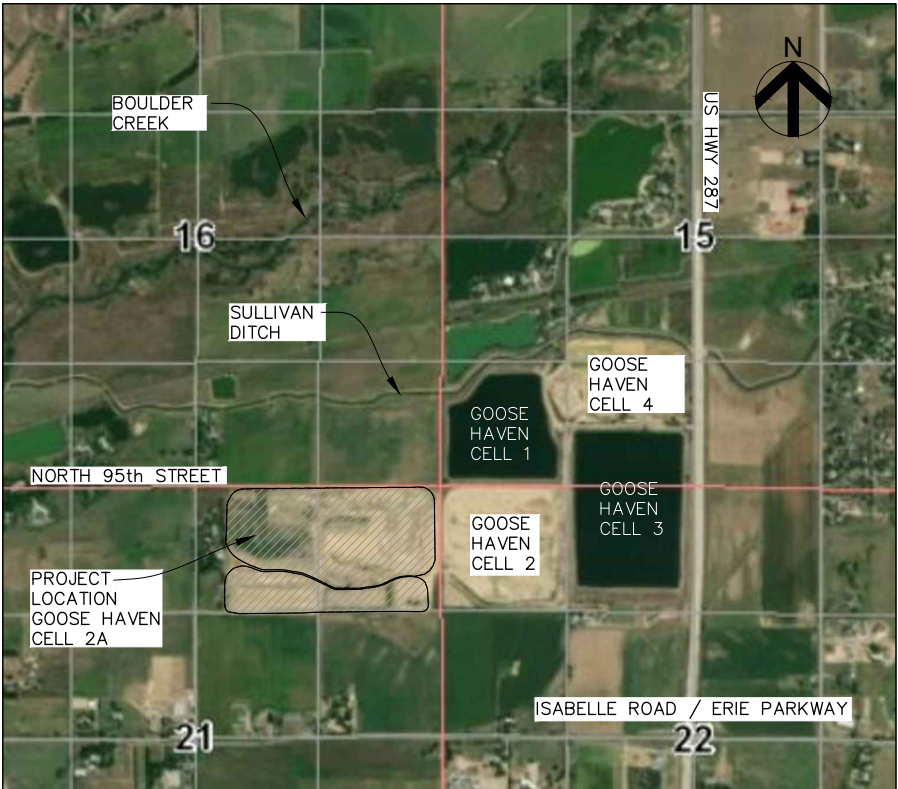
BOULDER COUNTY, WATER DIVISION 1, WATER DISTRICT 6
STATE DAM I.D. No.: _____
CONSTRUCTION FILE No.: ____-_____

PREPARED FOR:
ROCK PRODUCTS OF COLORADO

PREPARED BY:
BRIERLEY ASSOCIATES DAM DESIGN LEAD & GEOTECHNICAL ENGINEER
WEILAND, INC. OVERALL SITE CIVIL ENGINEER
MERRICK & COMPANY CIVIL AND WATER RESOURCES ENGINEERING
CLOSE ASSOCIATES, LLC STRUCTURAL ENGINEER FOR HYDRAULIC STRUCTURES



VICINITY MAP
SCALE: 1" = 5 MILES
SCALE: 1" = 5 MILES



LOCATION MAP
SCALE: 1" = 1000'
SCALE: 1" = 1000'

These plans have been prepared by me or under my direct supervision.

Mohamed Abdel Maksoud
Colorado P.E. No. 57505

Approved on the ____ day of _____, 20__.

State Engineer

By: _____
[Name], Chief, Colorado Dam Safety
Colorado P.E. No. _____

These plans represent the AS-CONSTRUCTED conditions of the Goose Haven Reservoir Cell 2A Dam to the best of my knowledge and judgment, based in part on information furnished by others, as of the ____ day of _____, 20__.

Mohamed Abdel Maksoud
Colorado P.E. No. 57505

THE DRAWING INDEX IS SHOWN ON THE FOLLOWING SHEET, G-02.

PRELIMINARY

					OWNER			CONTRACTOR			BRIERLEY ASSOCIATES			GOOSE HAVEN RESERVOIR CELL 2A COVER			SHEET G-01	
					CITY OF LAFAYETTE			ROCK PRODUCTS OF COLORADO, LLC P.O. BOX 893 BROOMFIELD, CO 80038			Creating Space Underground 2000 S COLORADO BLVD, STE A-400, DENVER, CO 303.703.1405 FAX 303.534.1777						DRAWING NO. 1 OF 29	
					GRAPHIC SCALE 0 1/4" 1" 1 1/2" 2" 2 1/2" 3"												REVISION 0	
					CADD FILE NAME G-01.DWG			PLOT DATE			APPROVED			DATE			CONTRACT	
											DESIGNED REB			CHECKED MG			DATE FEB. 1, 2021	
											DRAWN REB						B.A. JOB 113136-000	
																	SCALE AS SHOWN	

INDEX

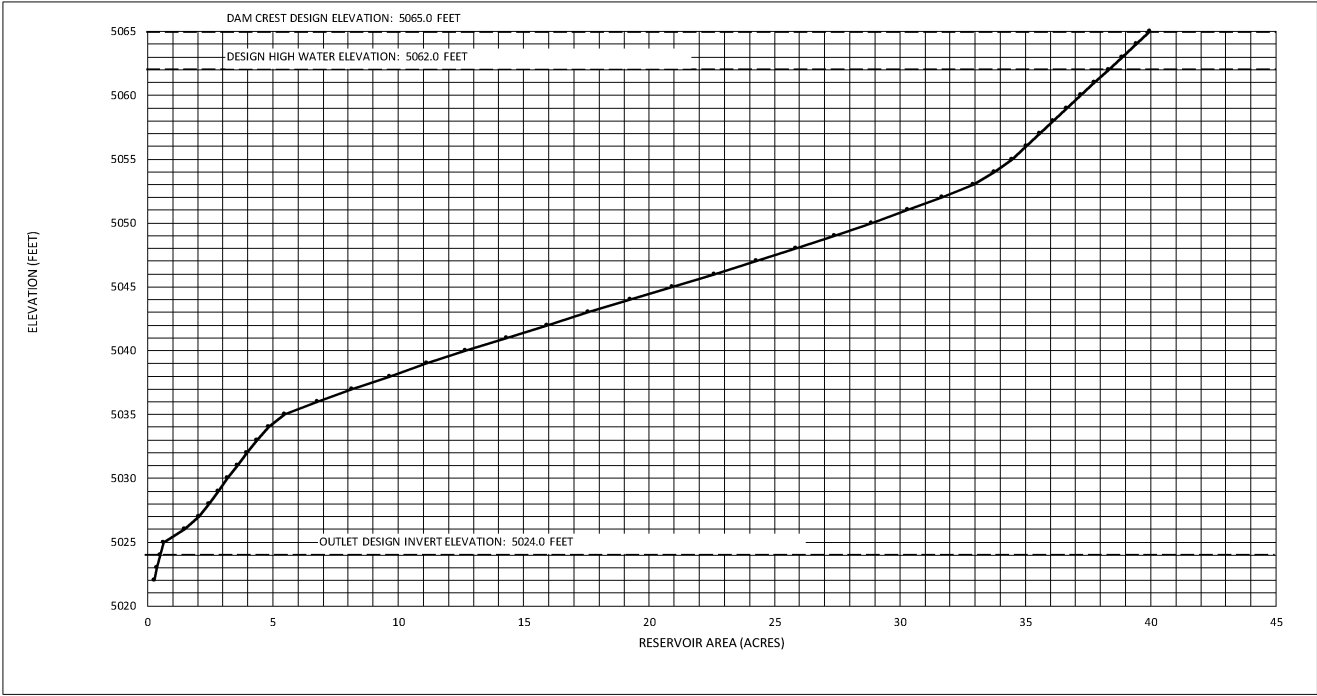
DRAWING NO.	SHEET	DESCRIPTION
GENERAL		
1	G-01	COVER
2	G-02	INDEX
3	G-03	RESERVOIR CAPACITY CURVES
4	G-04	GEOTECHNICAL EXPLORATION PLAN
5	G-05	GEOLOGIC PROFILE
CIVIL		
6	C-10	EXCAVATION PLAN
7	C-11	EMBANKMENT DAM / RESERVOIR SITE PLAN
8	C-12	EMBANKMENT DAM DETAILED PLANS (1 OF 5)
9	C-13	EMBANKMENT DAM DETAILED PLANS (2 OF 5)
10	C-14	EMBANKMENT DAM DETAILED PLANS (3 OF 5)
11	C-15	EMBANKMENT DAM DETAILED PLANS (4 OF 5)
12	C-16	EMBANKMENT DAM DETAILED PLANS (5 OF 5)
13	C-20	EMBANKMENT DAM SECTIONS (1 OF 8)
14	C-21	EMBANKMENT DAM SECTIONS (2 OF 8)
15	C-22	EMBANKMENT DAM SECTIONS (3 OF 8)
16	C-23	EMBANKMENT DAM SECTIONS (4 OF 8)
17	C-24	EMBANKMENT DAM SECTIONS (5 OF 8)
18	C-25	EMBANKMENT DAM SECTIONS (6 OF 8)
19	C-26	EMBANKMENT DAM SECTIONS (7 OF 8)
20	C-27	EMBANKMENT DAM SECTIONS (8 OF 8)
21	C-30	EMBANKMENT DAM DETAILS (1 OF 2)
22	C-31	EMBANKMENT DAM DETAILS (2 OF 2)
23	C-50	PIPE TRENCH DETAILS
24	C-51	TRENCHLESS DETAILS
HYDRAULIC STRUCTURES		
25	HS-60	HYDRAULIC STRUCTURES SITE PLAN
26	HS-61	ITEM 1 - RESERVOIR 2 AND 2A TRANSFER BOX
27	HS-62	ITEM 2 - RESERVOIR 2A TO 2 TRANSFER BOX
28	HS-63	BERM SECTIONS FOR RESERVOIR 2A TO 2 PIPE END DETAILS
29	HS-64	BERM SECTION RESERVOIR 2A BYPASS PIPING AND OVERFLOW/PRIMARY OUTLET CAPACITY CURVE

PRELIMINARY

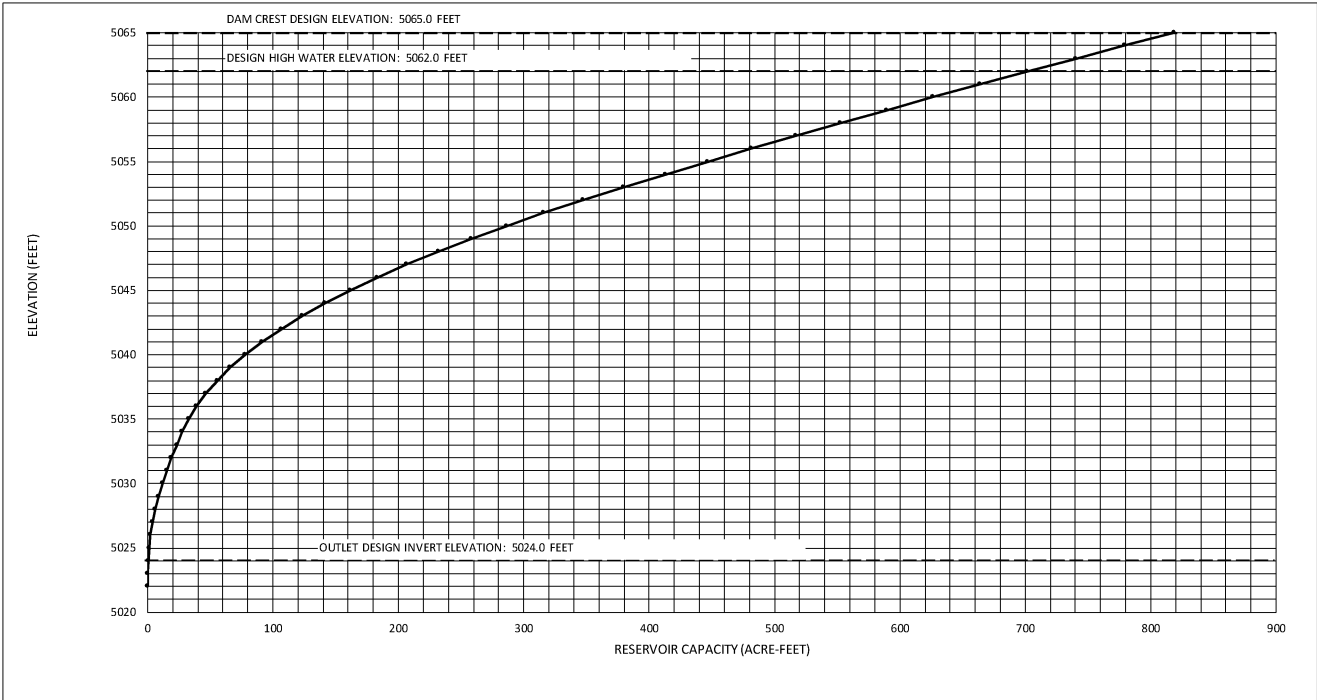
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ELEVATION (FEET)	RESERVOIR AREA (ACRES)	RESERVOIR CAPACITY (ACRE-FEET)
5022.0	0.3	0.0
5023.0	0.4	0.3
5024.0	0.5	0.8
5025.0	0.6	1.3
5026.0	1.5	2.3
5027.0	2.0	4.1
5028.0	2.4	6.3
5029.0	2.8	9.0
5030.0	3.2	12
5031.0	3.6	15
5032.0	4.0	19
5033.0	4.3	23
5034.0	4.8	28
5035.0	5.5	33
5036.0	6.8	39
5037.0	8.1	47
5038.0	9.6	55
5039.0	11.1	66
5040.0	12.7	78
5041.0	14.3	91
5042.0	15.9	106
5043.0	17.6	123
5044.0	19.2	142
5045.0	20.9	162
5046.0	22.6	183
5047.0	24.3	207
5048.0	25.9	232
5049.0	27.4	258
5050.0	28.9	287
5051.0	30.3	316
5052.0	31.7	347
5053.0	32.9	379
5054.0	33.8	413
5055.0	34.5	447
5056.0	35.0	482
5057.0	35.6	517
5058.0	36.1	553
5059.0	36.7	589
5060.0	37.2	626
5061.0	37.8	664
5062.0	38.3	702
5063.0	38.9	740
5064.0	39.4	779
5065.0	40.0	819

1
— AREA & CAPACITY TABLE



2
— RESERVOIR AREA CURVE

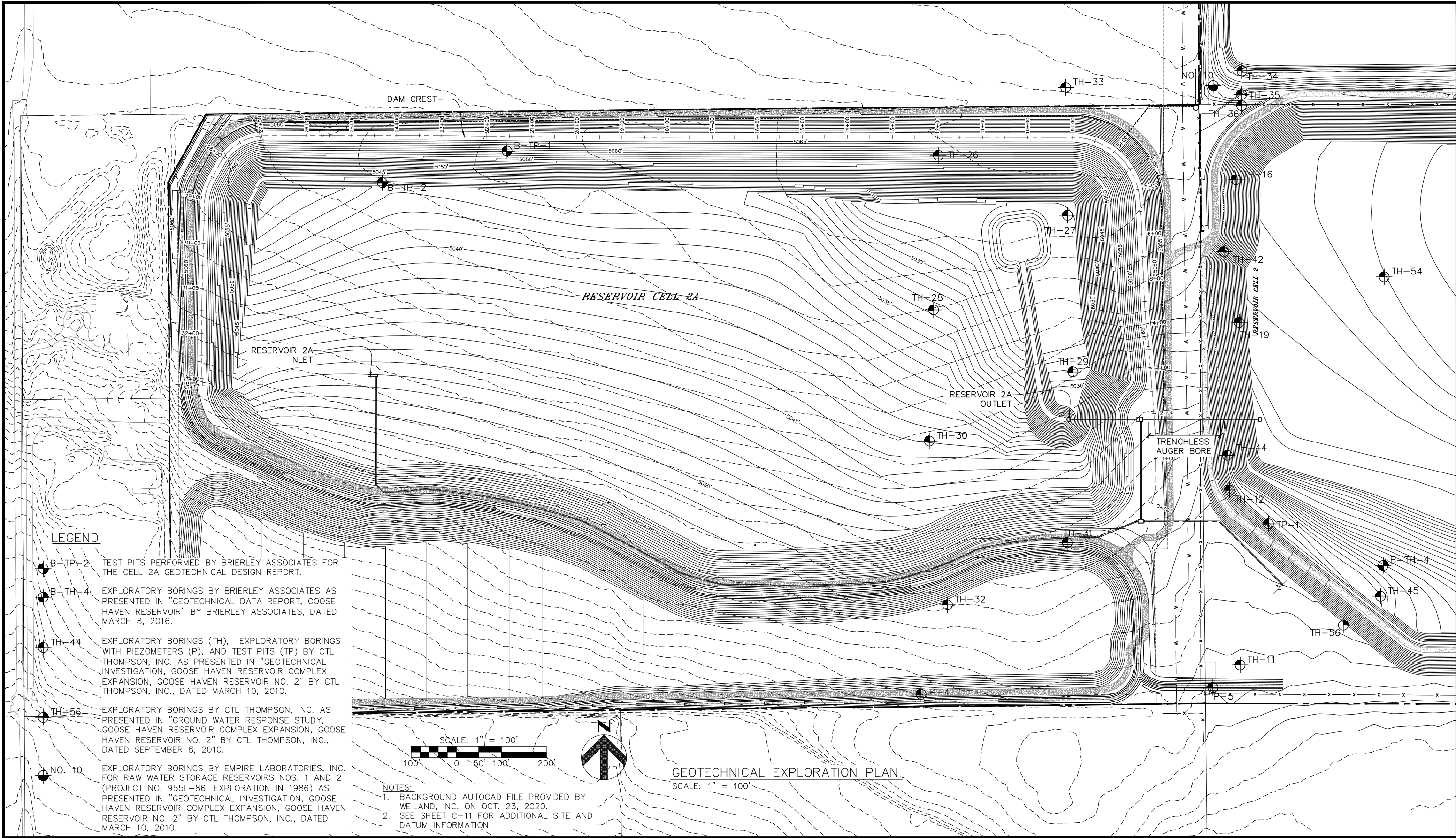


3
— RESERVOIR CAPACITY CURVE

NOTE: SEE SHEET HS-64
FOR OVERFLOW WEIR AND
PRIMARY OUTLET CAPACITY
CURVES.

PRELIMINARY

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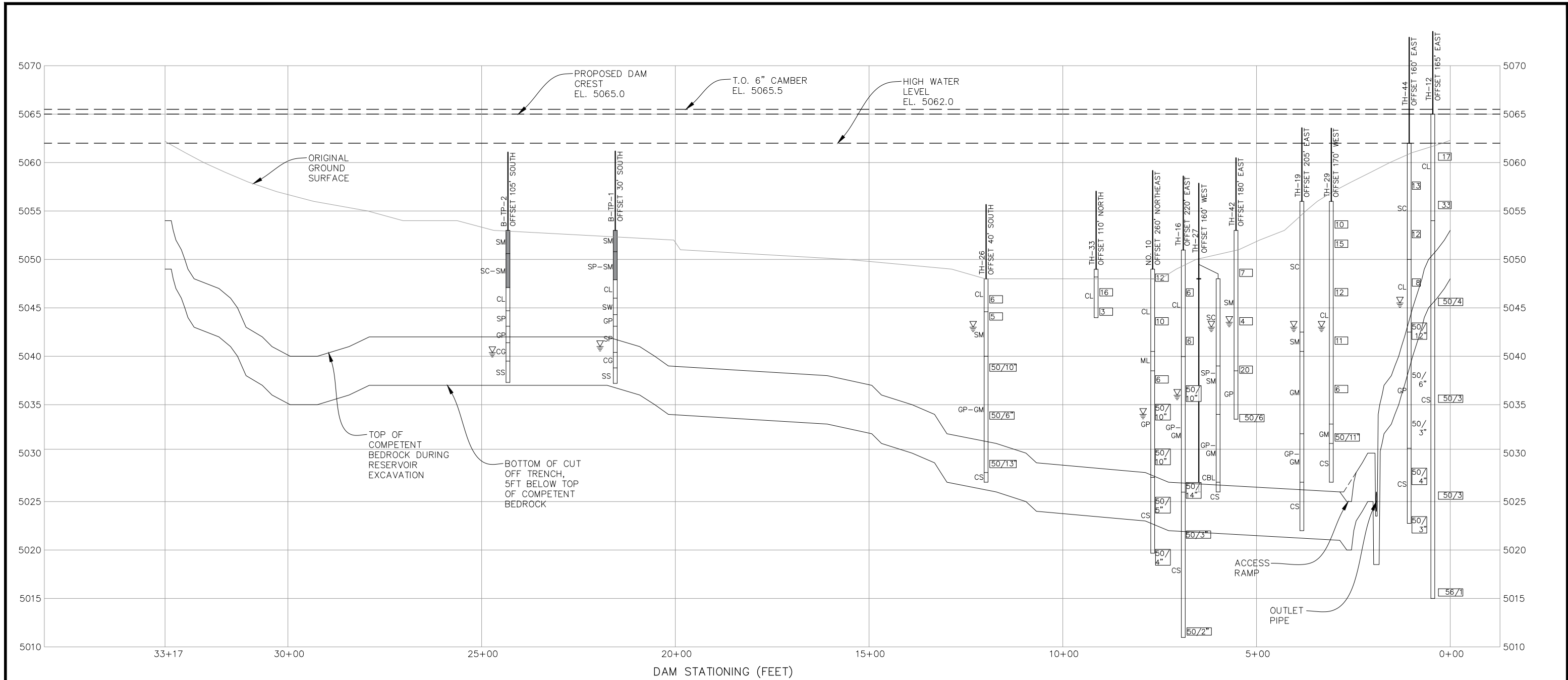
LEGEND

- B-TP-2 TEST PITS PERFORMED BY BRIERLEY ASSOCIATES FOR THE CELL 2A GEOTECHNICAL DESIGN REPORT.
- B-TH-4 EXPLORATORY BORINGS BY BRIERLEY ASSOCIATES AS PRESENTED IN "GEOTECHNICAL DATA REPORT, GOOSE HAVEN RESERVOIR" BY BRIERLEY ASSOCIATES, DATED MARCH 8, 2016.
- TH-44 EXPLORATORY BORINGS (TH), EXPLORATORY BORINGS WITH PIEZOMETERS (P), AND TEST PITS (TP) BY CTL THOMPSON, INC. AS PRESENTED IN "GEOTECHNICAL INVESTIGATION, GOOSE HAVEN RESERVOIR COMPLEX EXPANSION, GOOSE HAVEN RESERVOIR NO. 2" BY CTL THOMPSON, INC., DATED MARCH 10, 2010.
- TH-56 EXPLORATORY BORINGS BY CTL THOMPSON, INC. AS PRESENTED IN "GROUND WATER RESPONSE STUDY, GOOSE HAVEN RESERVOIR COMPLEX EXPANSION, GOOSE HAVEN RESERVOIR NO. 2" BY CTL THOMPSON, INC., DATED SEPTEMBER 8, 2010.
- NO. 10 EXPLORATORY BORINGS BY EMPIRE LABORATORIES, INC. FOR RAW WATER STORAGE RESERVOIRS NOS. 1 AND 2 (PROJECT NO. 955L-86, EXPLORATION IN 1986) AS PRESENTED IN "GEOTECHNICAL INVESTIGATION, GOOSE HAVEN RESERVOIR COMPLEX EXPANSION, GOOSE HAVEN RESERVOIR NO. 2" BY CTL THOMPSON, INC., DATED MARCH 10, 2010.

- NOTES:
1. BACKGROUND AUTOCAD FILE PROVIDED BY WEILAND, INC. ON OCT. 23, 2020.
 2. SEE SHEET C-11 FOR ADDITIONAL SITE AND DATUM INFORMATION.

GEOTECHNICAL EXPLORATION PLAN
SCALE: 1" = 100'

				OWNER		CONTRACTOR		BRIERLEY ASSOCIATES			GOOSE HAVEN RESERVOIR CELL 2A GEOTECHNICAL EXPLORATION PLAN			SHEET
				CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO, LLC		Creating Space Underground						G-04
				GRAPHIC SCALE 0 1/4" 1" 1 1/2" 2" 2 1/2" 3"		P.O. BOX 893		2000 S COLORADO BLVD, STE A-400, DENVER, CO			DRAWING NO. 4 OF 29			
				CADD FILE NAME G-04.DWG		BROOMFIELD, CO 80038		303.703.1405			REVISION 0			
				PLOT DATE		APPROVED		FAX 303.534.1777			CONTRACT			SCALE 1" = 100'
				NO. DATE REVISIONS BY CK		DATE		DESIGNED REB CHECKED MG DRAWN REB			DATE DEC. 23, 2020			
											B.A. JOB 113136-000			



LEGEND

CL - LEAN CLAY
ML - SILT
SC - CLAYEY SAND
SC-SM - SILTY, CLAYEY SAND
SM - SILTY SAND
SP-SM - POORLY-GRADED SAND WITH SILT
SP - POORLY-GRADED SAND
SW - WELL-GRADED SAND
GM - SILTY GRAVEL
GP-GM - POORLY-GRADED GRAVEL WITH SILT
GP - POORLY-GRADED GRAVEL
GW - WELL-GRADED GRAVEL
CBL - GRAVELLY COBBLES
CG - CONGLOMERATE
CS - CLAYSTONE BEDROCK
SS - SANDSTONE BEDROCK

BORING

SM 12 2" I.D. MODIFIED CALIFORNIA SAMPLE BLOWS PER 12" (OR AS NOTED)
50/10 50/10 1 3/8" I.D. STANDARD PENETRATION TEST BLOWS PER 12" (OR AS NOTED)
TOP OF GROUNDWATER
SP USCS CLASSIFICATION
AEOLIAN DEPOSITS INDICATED IN BORING OR TEST PIT LOG

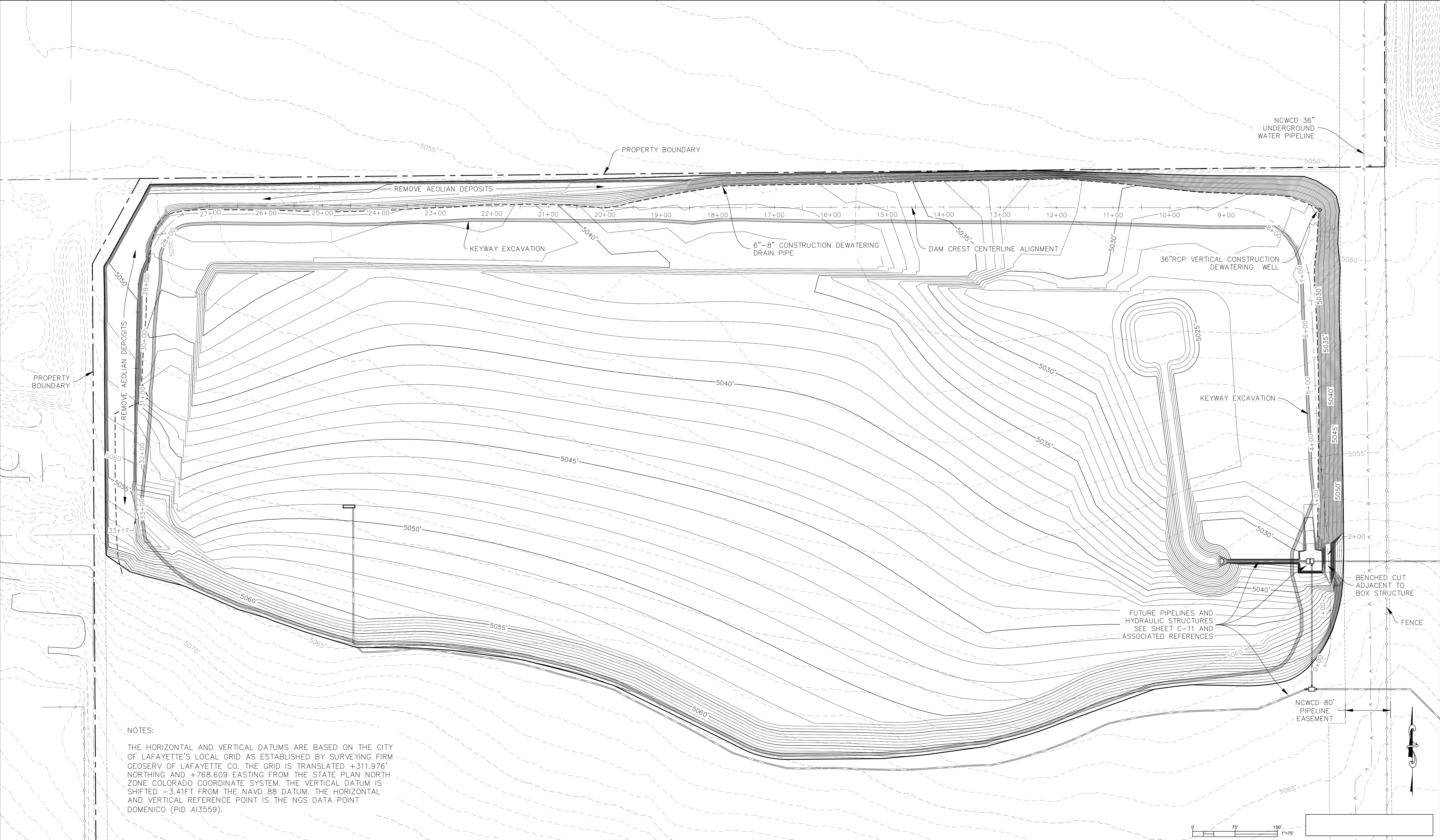
NOTES:

- REFER TO SHEET G-04 FOR THE SOURCE REPORTS FOR THE EXPLORATORY BORINGS AND TEST PITS. EXPLORATORY BORING AND TEST PIT LOGS ARE PROVIDED IN THE GEOTECHNICAL DESIGN REPORT, APPENDICES A AND D.
- CREST CAMBER SHALL HAVE A MINIMUM ELEV. OF 5065.5, SEE DETAIL 2 ON DRAWING C-31.

HORIZONTAL SCALE: 1" = 125'
125' 0 125' 250'
25x VERTICAL EXAGGERATION
(1"=5' VERTICALLY)

PRELIMINARY

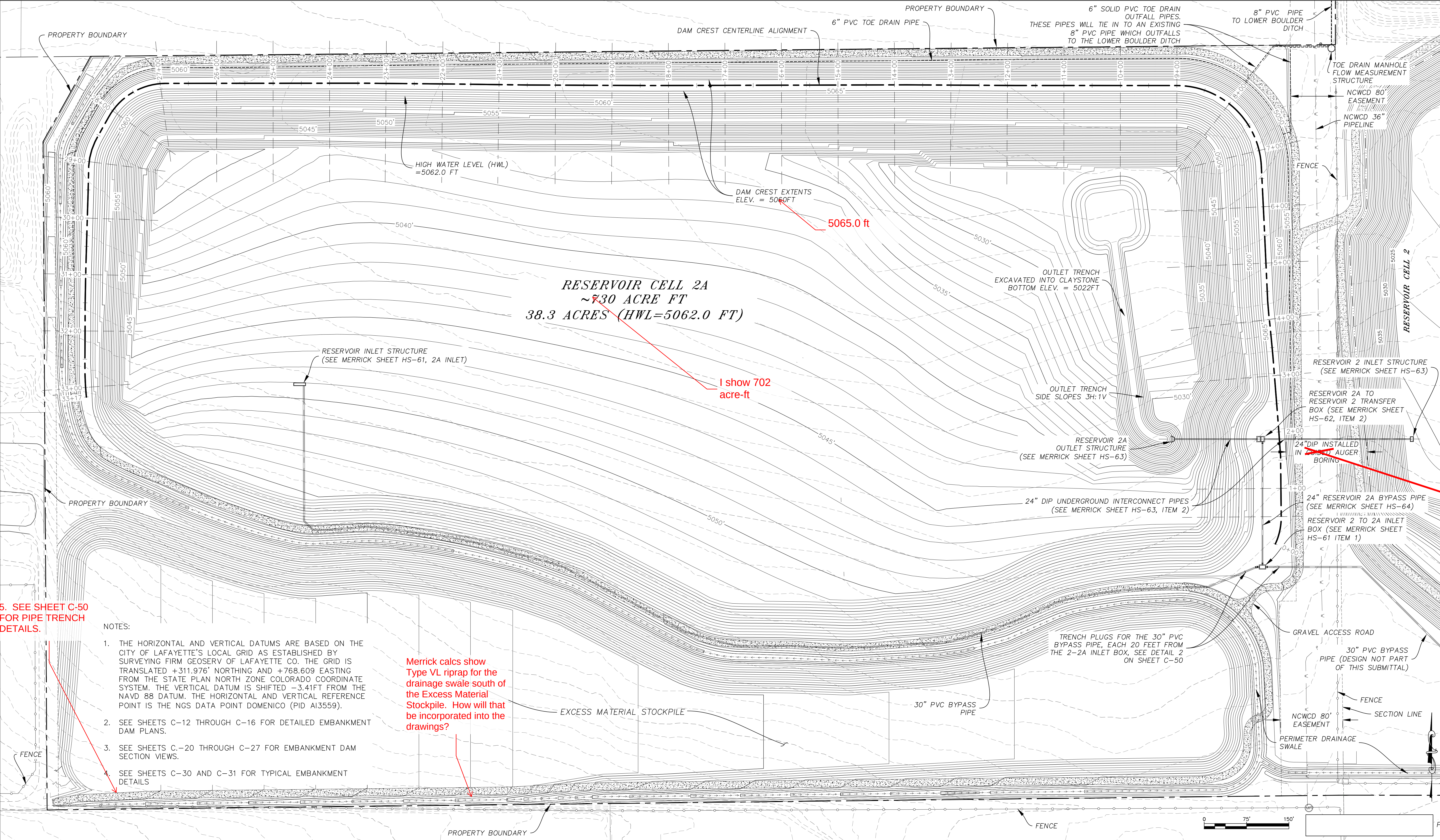
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NOTES:

THE HORIZONTAL AND VERTICAL DATUMS ARE BASED ON THE CITY OF LAFAYETTE'S LOCAL GRID AS ESTABLISHED BY SURVEYING FIRM GEOSERV OF LAFAYETTE CO. THE GRID IS TRANSLATED +311.976' NORTHING AND +768.609 EASTING FROM THE STATE PLAN NORTH ZONE COLORADO COORDINATE SYSTEM. THE VERTICAL DATUM IS SHIFTED -3.41FT FROM THE NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL REFERENCE POINT IS THE NGS DATA POINT DOMENICO (PID A13559).

REVISIONS				OWNER CITY OF LAFAYETTE	CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038			PROJECT GOOSE HAVEN RESERVOIR CELL 2A EXCAVATION PLAN			SHEET C-10
REV	DESCRIPTION	DATE	APPROVED					DRAWING NO. 6 OF 29			
								REVISION 0			
CAD FILE NAME C-10 EXCAVATION PLAN F.DWG		PLOT DATE 1/28/21	APPROVED	DATE	DESIGNED PFW	CHECKED RB	DRAWN PFW	CONTRACT	DATE January 28, 2021	B.A. JOB 113136-000	SCALE 1" = 75'



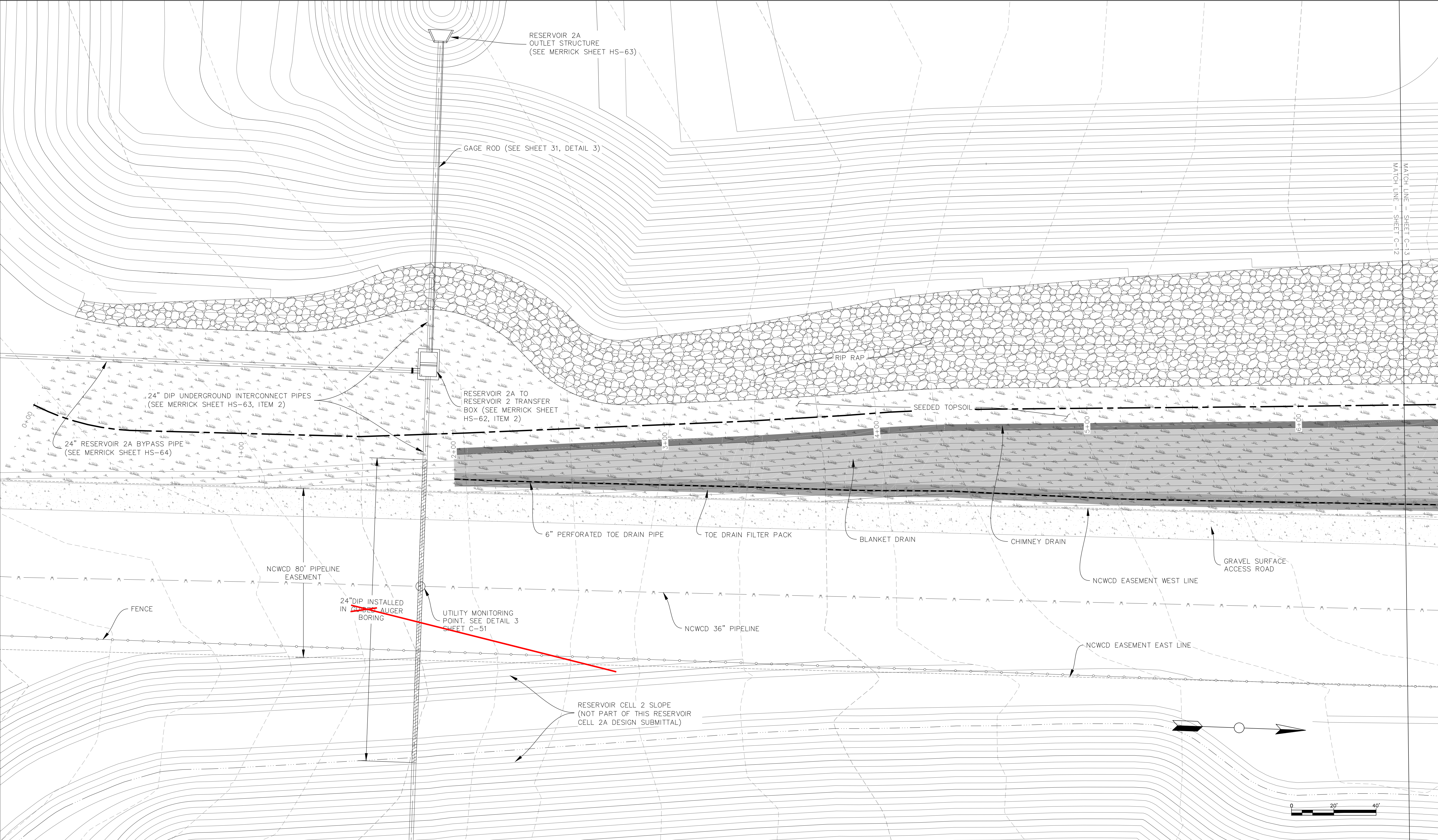
5. SEE SHEET C-50
FOR PIPE TRENCH
DETAILS.

NOTES:

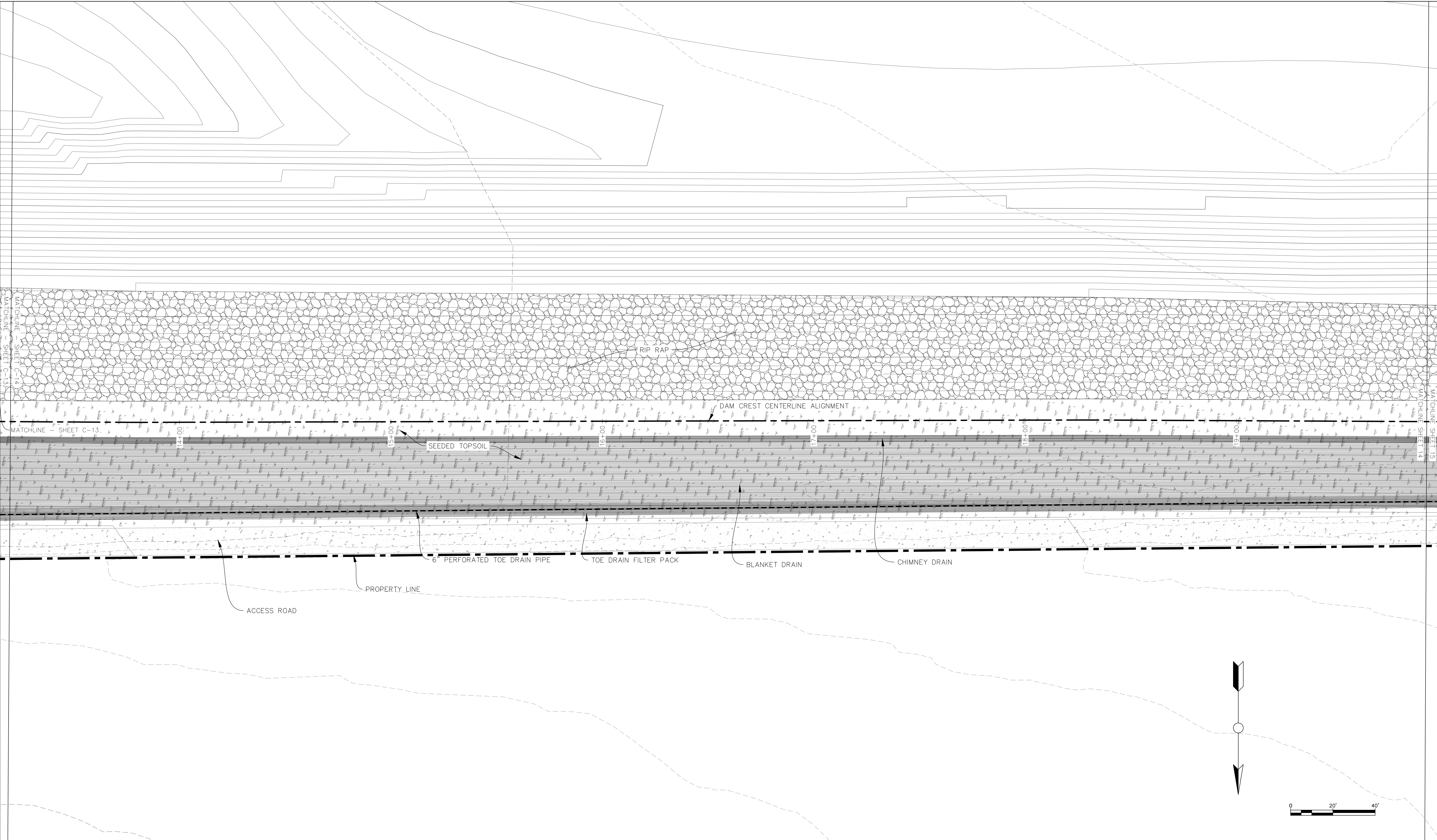
1. THE HORIZONTAL AND VERTICAL DATUMS ARE BASED ON THE CITY OF LAFAYETTE'S LOCAL GRID AS ESTABLISHED BY SURVEYING FIRM GEOSERV OF LAFAYETTE CO. THE GRID IS TRANSLATED +311.976' NORTHING AND +768.609 EASTING FROM THE STATE PLAN NORTH ZONE COLORADO COORDINATE SYSTEM. THE VERTICAL DATUM IS SHIFTED -3.41FT FROM THE NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL REFERENCE POINT IS THE NGS DATA POINT DOMENICO (PID AI3559).
2. SEE SHEETS C-12 THROUGH C-16 FOR DETAILED EMBANKMENT DAM PLANS.
3. SEE SHEETS C-20 THROUGH C-27 FOR EMBANKMENT DAM SECTION VIEWS.
4. SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DETAILS

Merrick calcs show
Type VL riprap for the
drainage swale south of
the Excess Material
Stockpile. How will that
be incorporated into the
drawings?

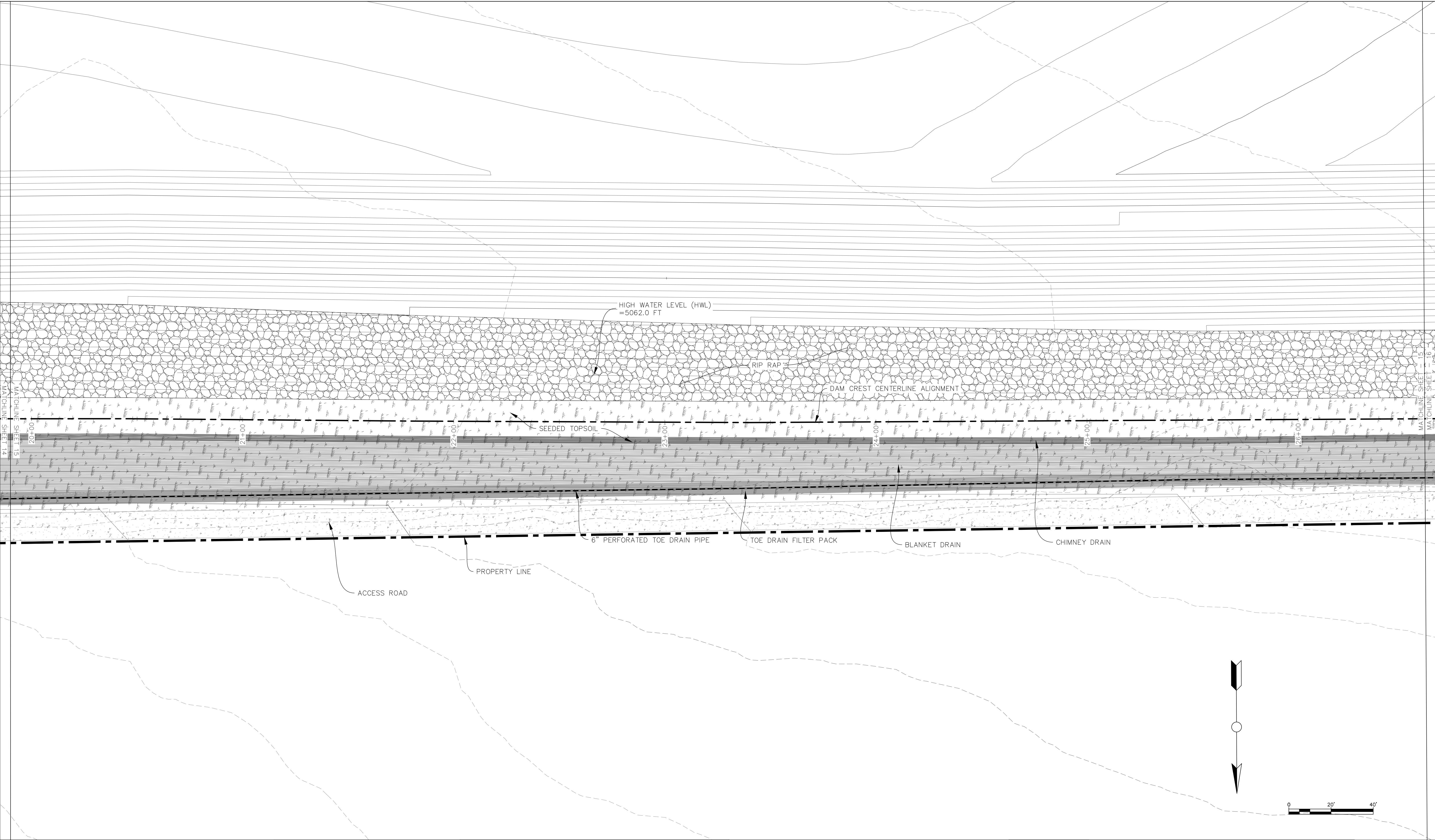
REVISIONS				OWNER		CONTRACTOR		PROJECT			SHEET	
REV	DESCRIPTION	DATE	APPROVED	CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038		GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM / RESERVOIR SITE PLAN			C-11	
											DRAWING NO. 7 OF 29	
											REVISION 0	
											SCALE 1"=75'	
CAD FILE NAME				PLOT DATE		APPROVED		DATE			CONTRACT	
C-11 EMBANKMENT DAM PLAN R2.DWG				1/28/21				January 28, 2021			B.A. JOB 113136-000	
DESIGNED				CHECKED		DRAWN						
PFW				RB		PFW						



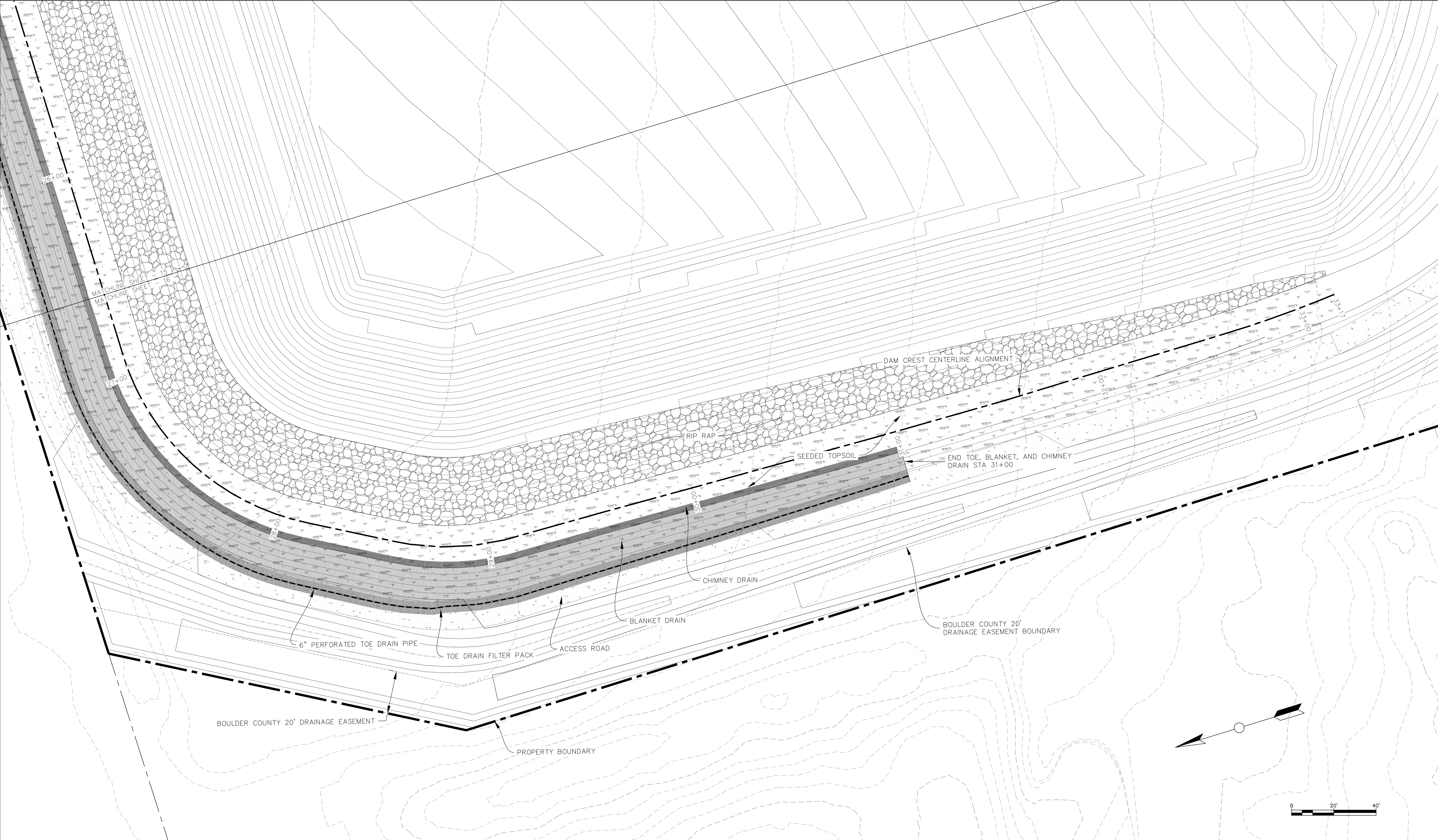
REVISIONS				OWNER CITY OF LAFAYETTE	CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038	 WSI Weiland, Inc. Environmental & Engineering PO BOX 18007 BROOMFIELD, CO 80038 PH 303-445-9521			PROJECT			SHEET	
REV	DESCRIPTION	DATE	APPROVED						GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM DETAILED PLANS (1 OF 5)			C-12	
									DRAWING NO. 8 OF 29				
									REVISION 0				
									SCALE 1"=20'				
CAD FILE NAME C12-16 EMBANKMENT DAM DET. F.DWG				PLOT DATE 2/1/21	APPROVED	DATE	DESIGNED PFW	CHECKED RB	DRAWN PFW	CONTRACT	DATE February 1, 2021	B.A. JOB 113136-000	



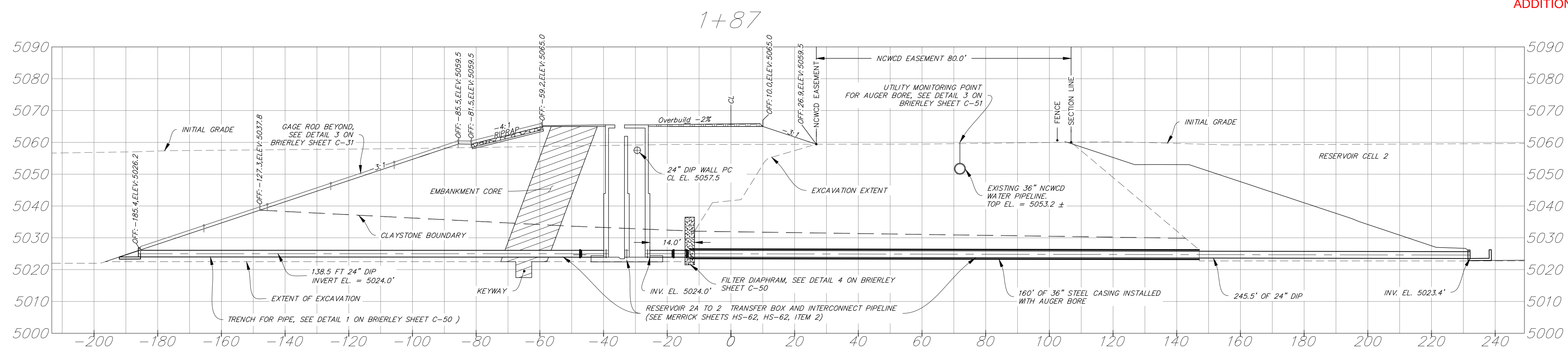
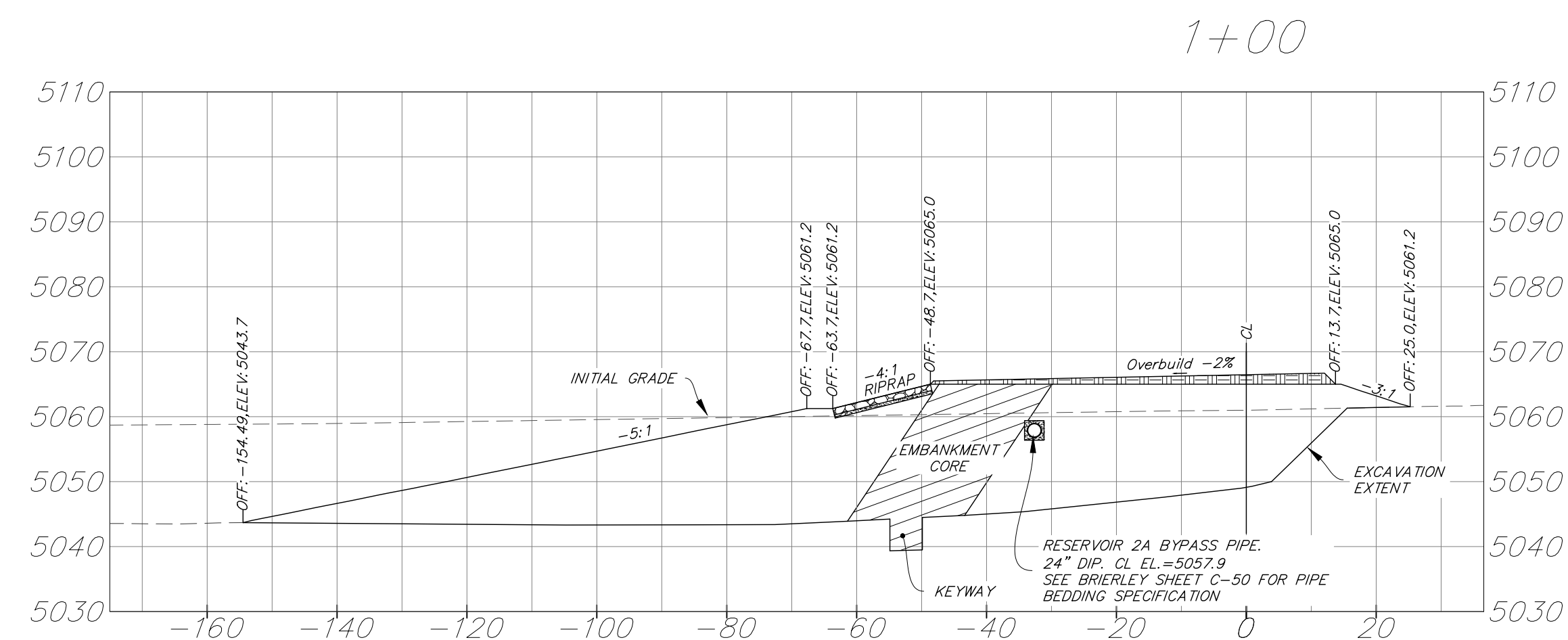
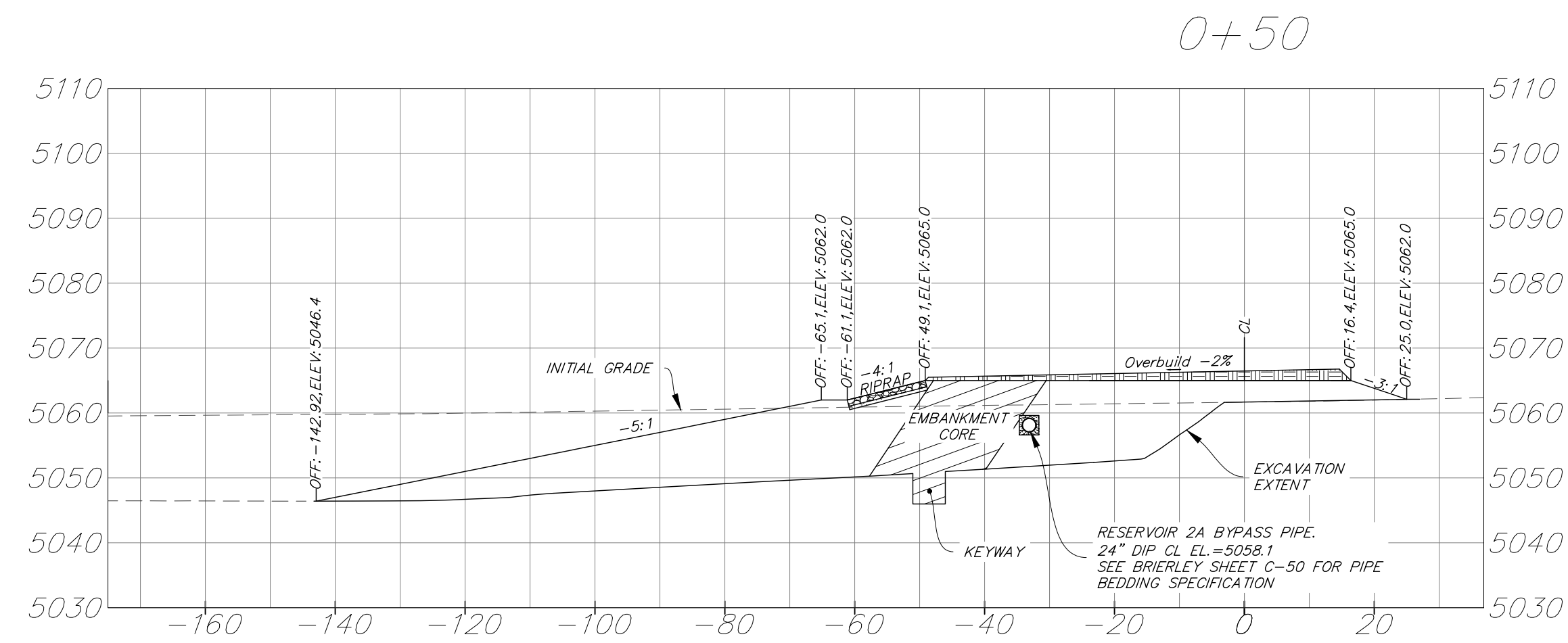
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REV	DESCRIPTION	DATE	APPROVED						GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM DETAILED PLANS (3 OF 5)			C-14
												DRAWING NO. 10 OF 29
												REVISION 0
												SCALE 1"=20'
CAD FILE NAME C12-16 EMBANKMENT DAM DET. F.DWG		PLOT DATE 2/1/21		APPROVED	DATE	DESIGNED PFW	CHECKED RB	DRAWN PFW	CONTRACT	DATE February 1, 2021	B.A. JOB 113136-000	



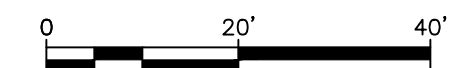
REVISIONS				OWNER CITY OF LAFAYETTE	CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038	 WSI Welland, Inc. Environmental & Engineering PO BOX 10007 Boulder, CO 80509 PH 303-443-9621			PROJECT GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM DETAILED PLANS (4 OF 5)	SHEET C-15		
REV	DESCRIPTION	DATE	APPROVED							DRAWING NO. 11 OF 29		
										REVISION 0		
										SCALE 1"=20'		
CAD FILE NAME		PLOT DATE		APPROVED	DATE	DESIGNED	CHECKED	DRAWN	CONTRACT	DATE	B.A. JOB	SCALE
C12-16 EMBANKMENT DAM DET. F.DWG		2/1/21				PFW	RB	PFW		February 1, 2021	113136-000	1"=20'



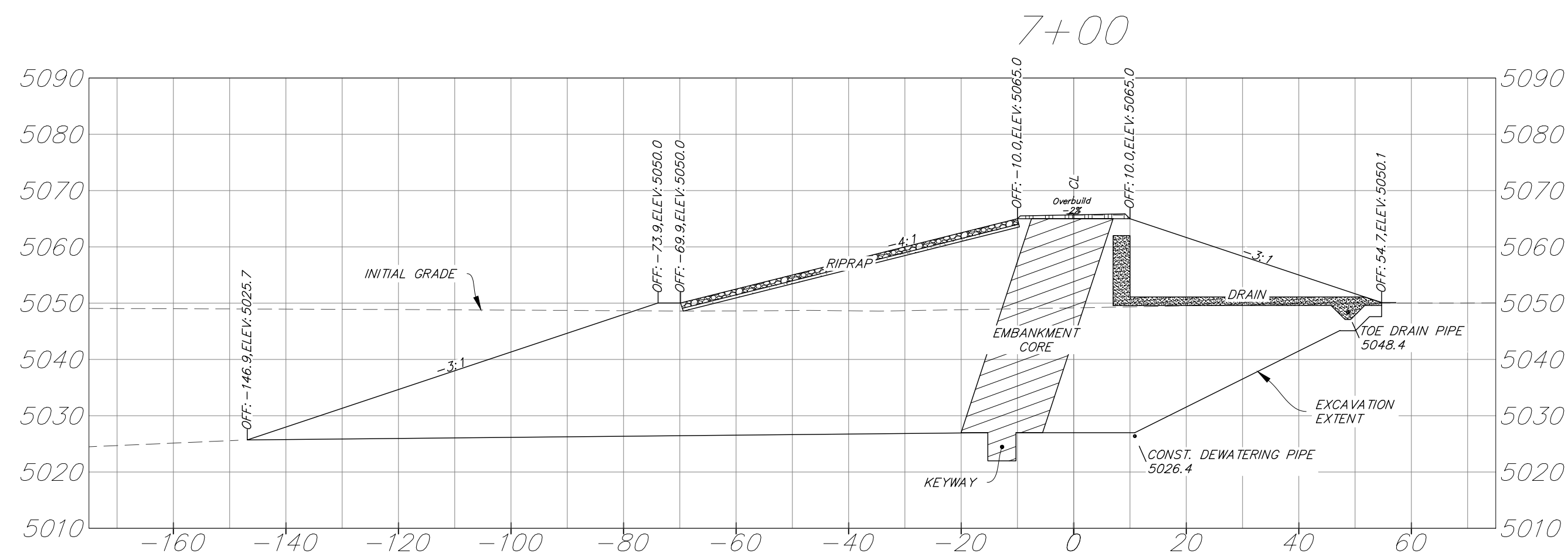
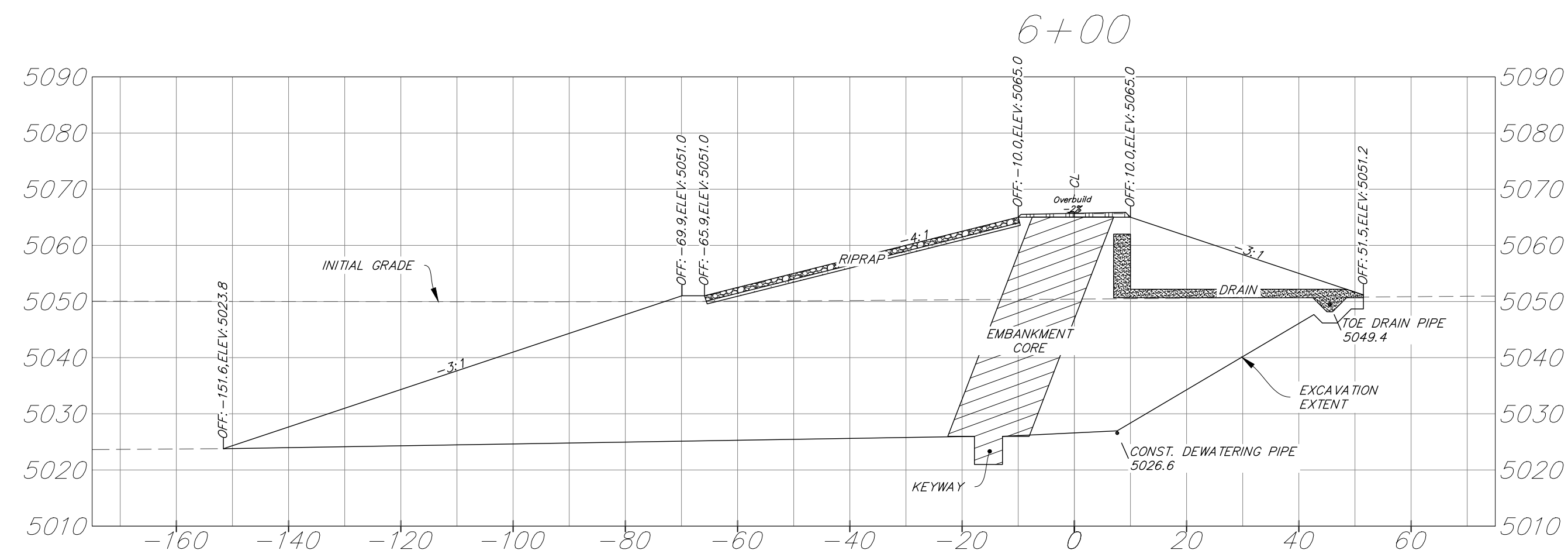
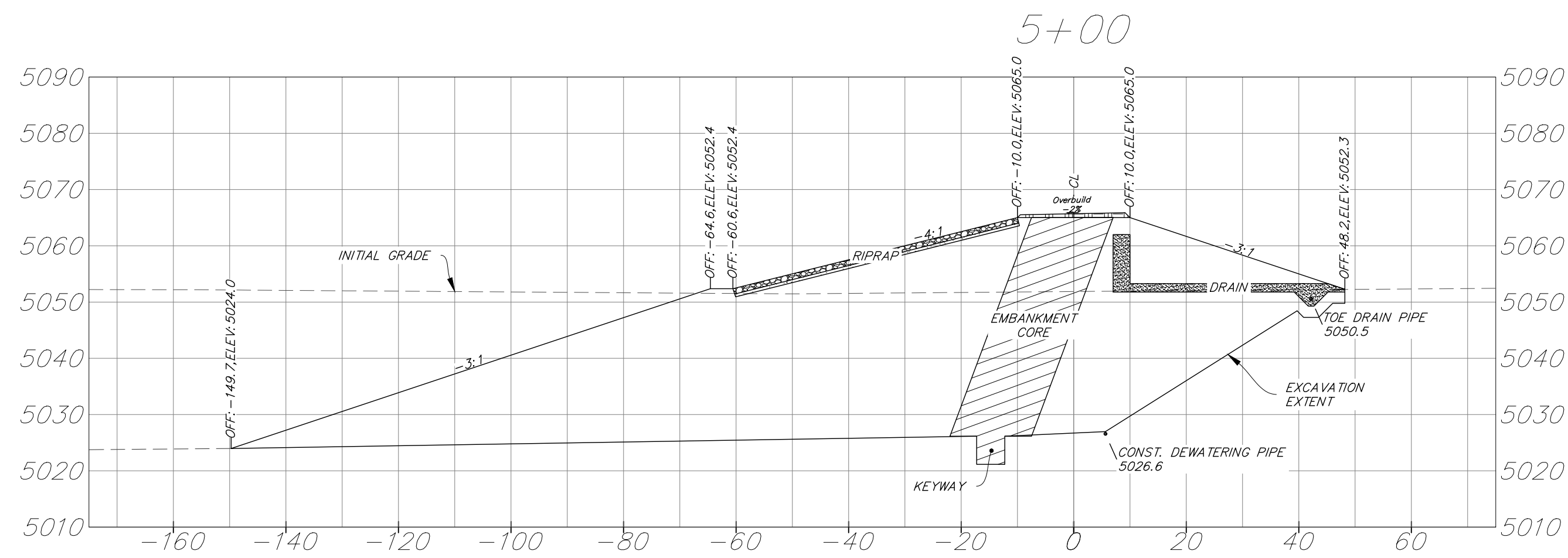
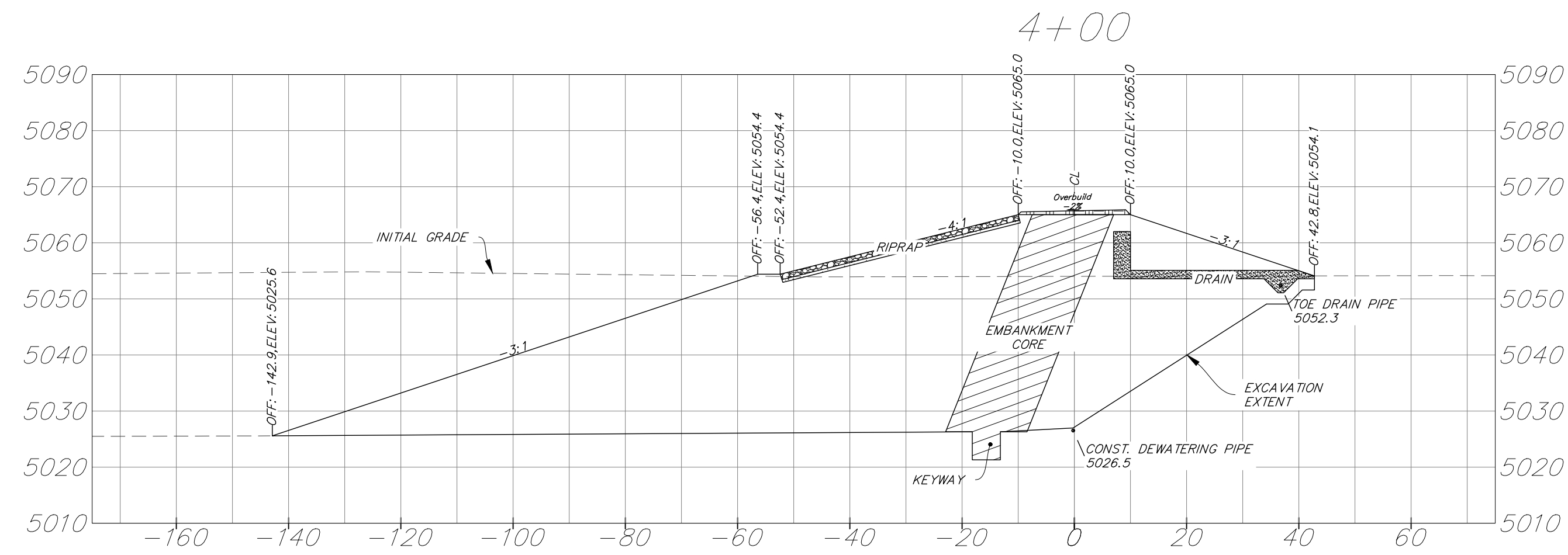
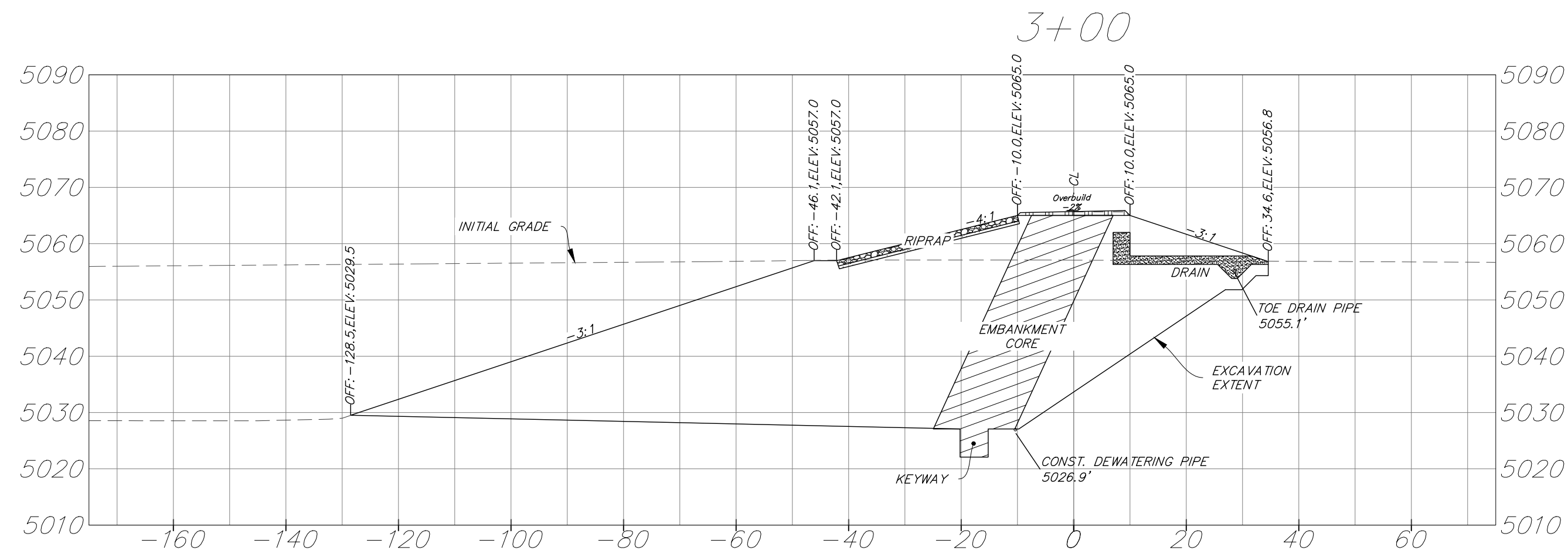
REVISIONS				OWNER CITY OF LAFAYETTE	CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038	 WSI Weiland, Inc. Environmental & Engineering PO BOX 10007 Boulder, CO 80501 PH 303-443-9821	PROJECT GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM DETAILED PLANS (5 OF 5)			SHEET C-16		
REV	DESCRIPTION	DATE	APPROVED									
CAD FILE NAME		PLOT DATE		APPROVED	DATE	DESIGNED	CHECKED	DRAWN	CONTRACT	DATE	B.A. JOB	SCALE
C12-16 EMBANKMENT DAM DET. F.DWG		2/1/21				PFW	RB	PFW		February 1, 2021	113136-000	1"=20'



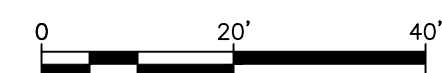
- NOTES:
1. SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 2. UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 3. VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2
 4. SEE SHEETS C-51 AND HS-63 FOR ADDITIONAL DETAILS FOR THE AUGER BORE



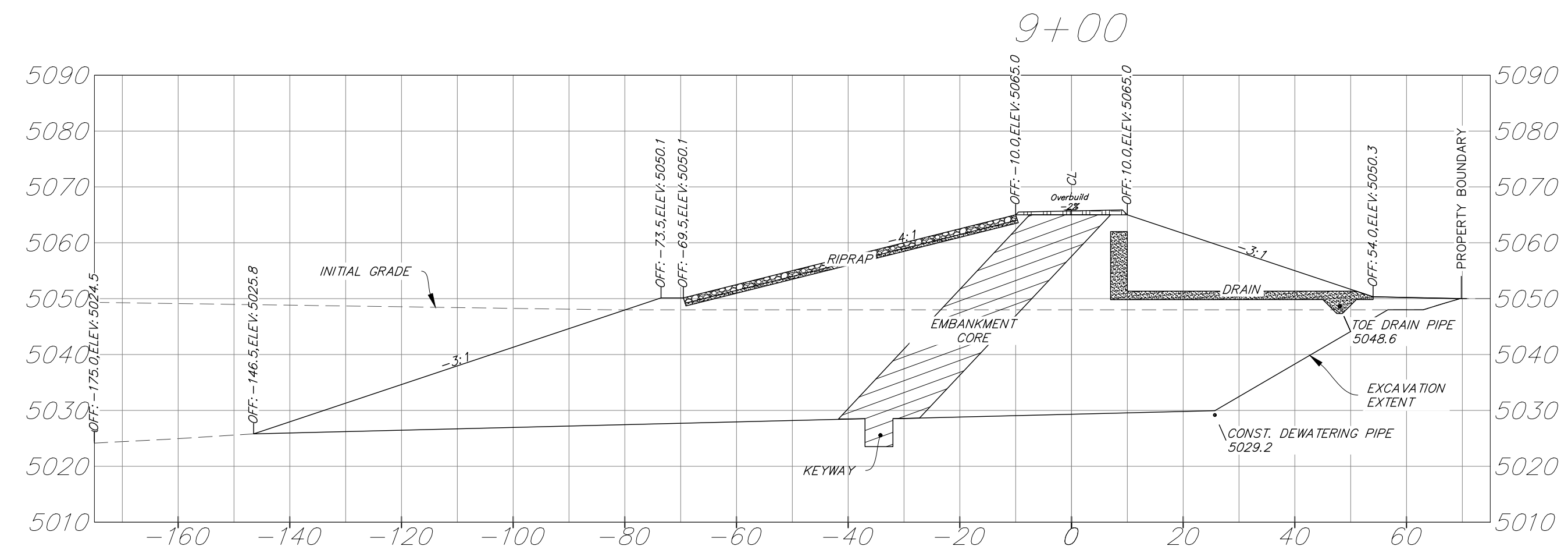
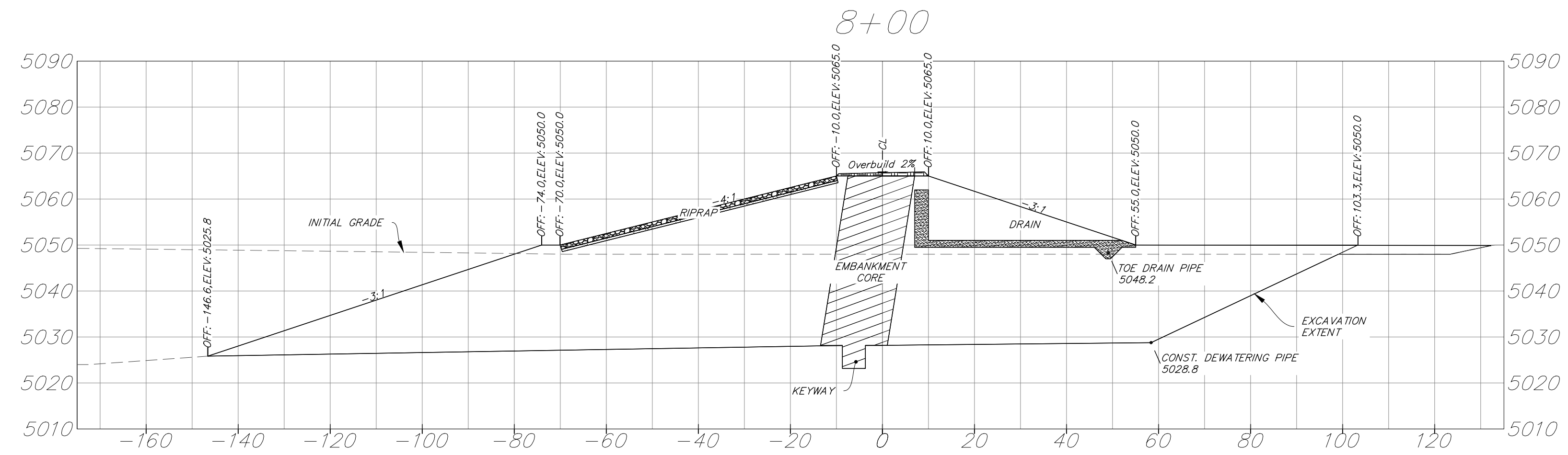
REVISIONS				OWNER CITY OF LAFAYETTE		CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038				Weiland, Inc. Environmental & Engineering PO BOX 18087 BOULDER CO 80508 (970) 303-4433 (FAX)			PROJECT GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (1 OF 8)				SHEET C-20	
REV	DESCRIPTION	DATE	APPROVED														DRAWING NO. 13 OF 29	
																	REVISION 0	
CAD FILE NAME C-20-27 SECTION VIEWS F.DWG		PLOT DATE 2/1/21		APPROVED		DATE		DESIGNED PFW	CHECKED RB	DRAWN PFW	CONTRACT		DATE February 1, 2021	B.A. JOB 113136-000	SCALE 1"=20'			



- NOTES:
- SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 - UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 - VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2



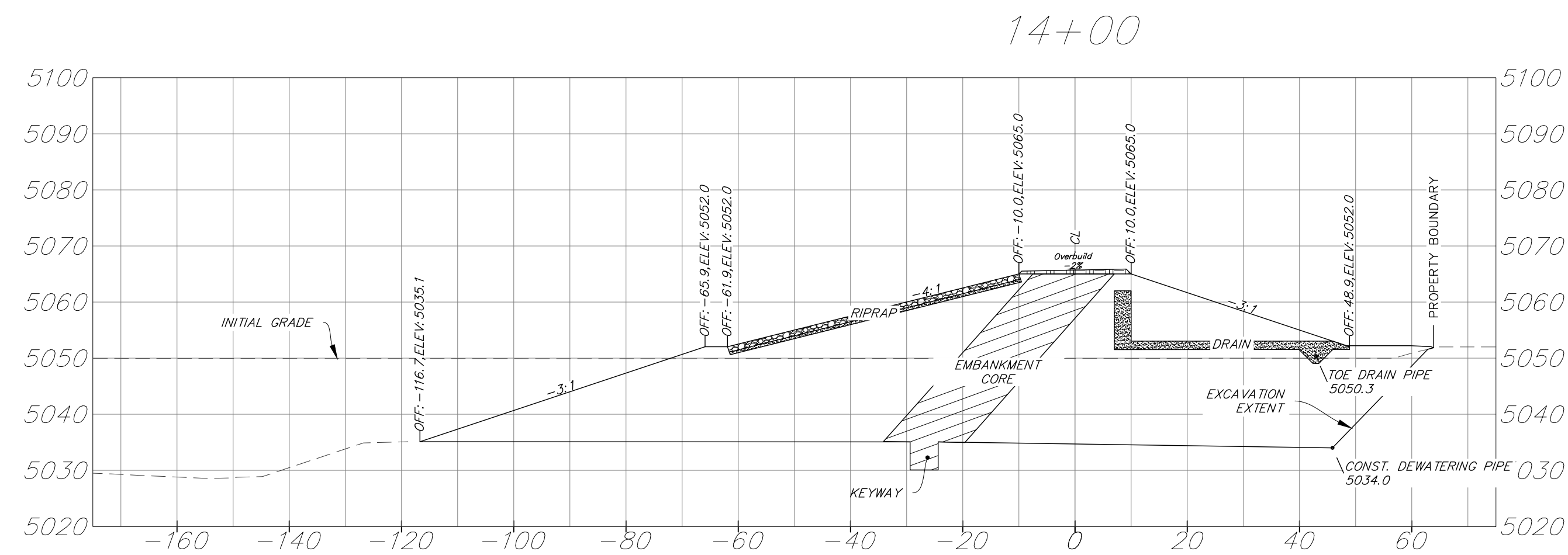
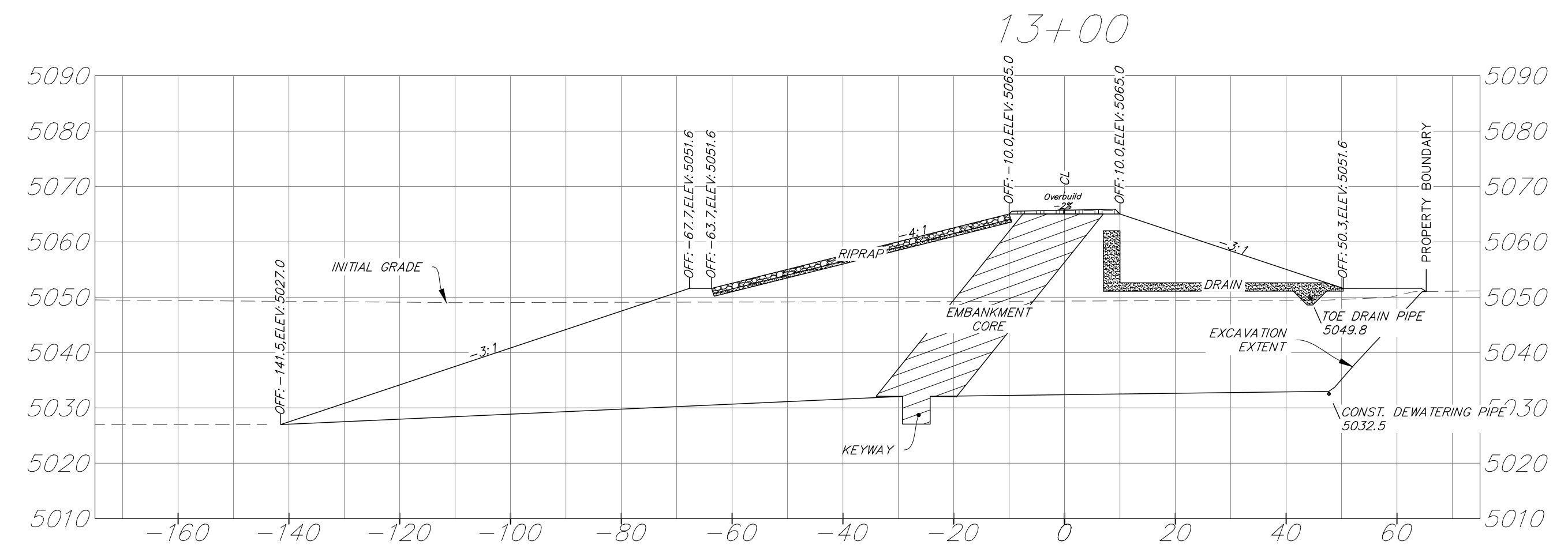
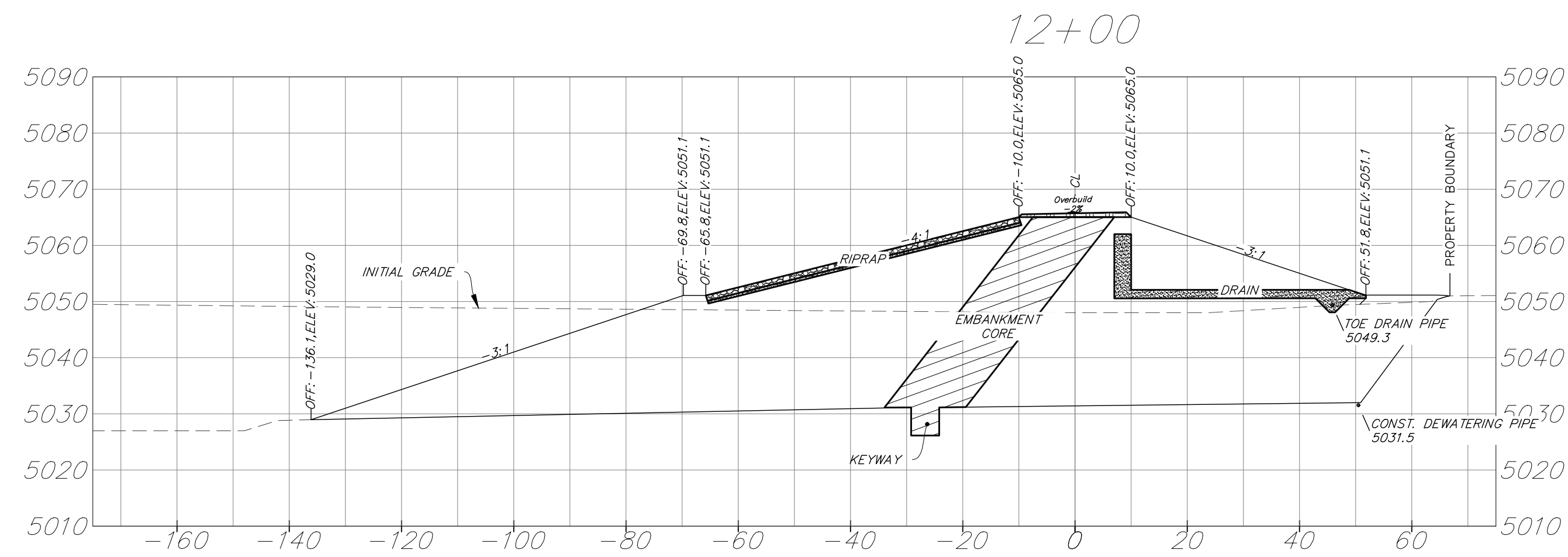
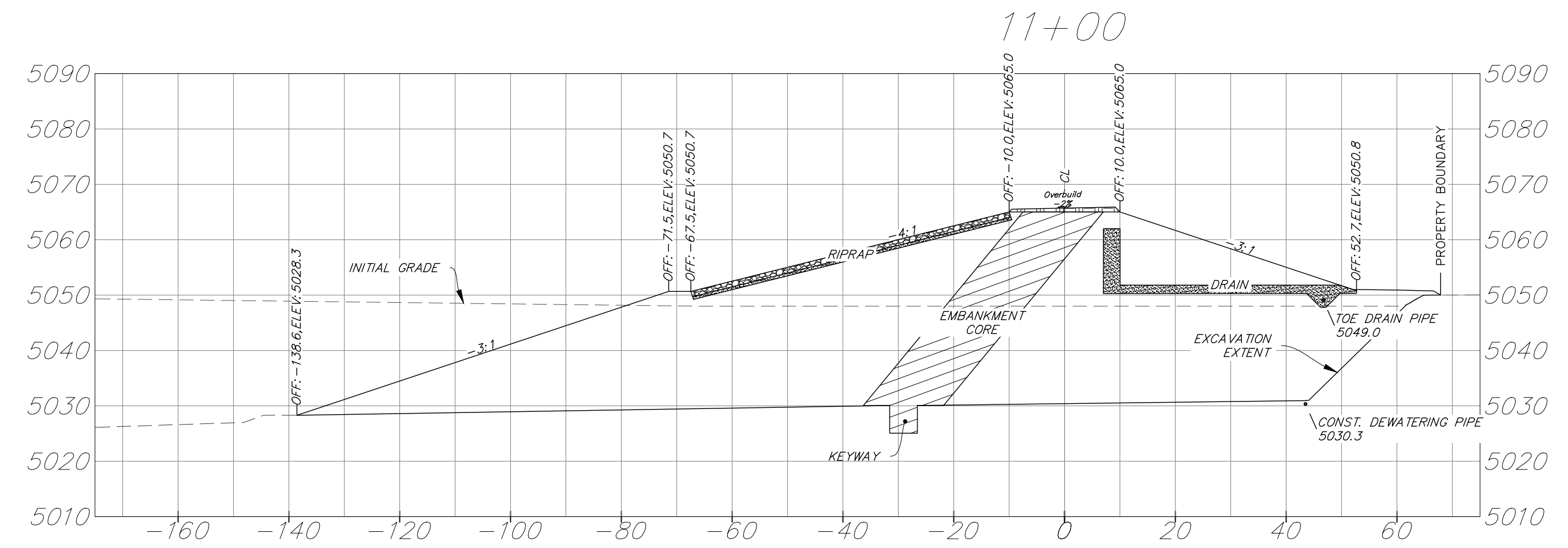
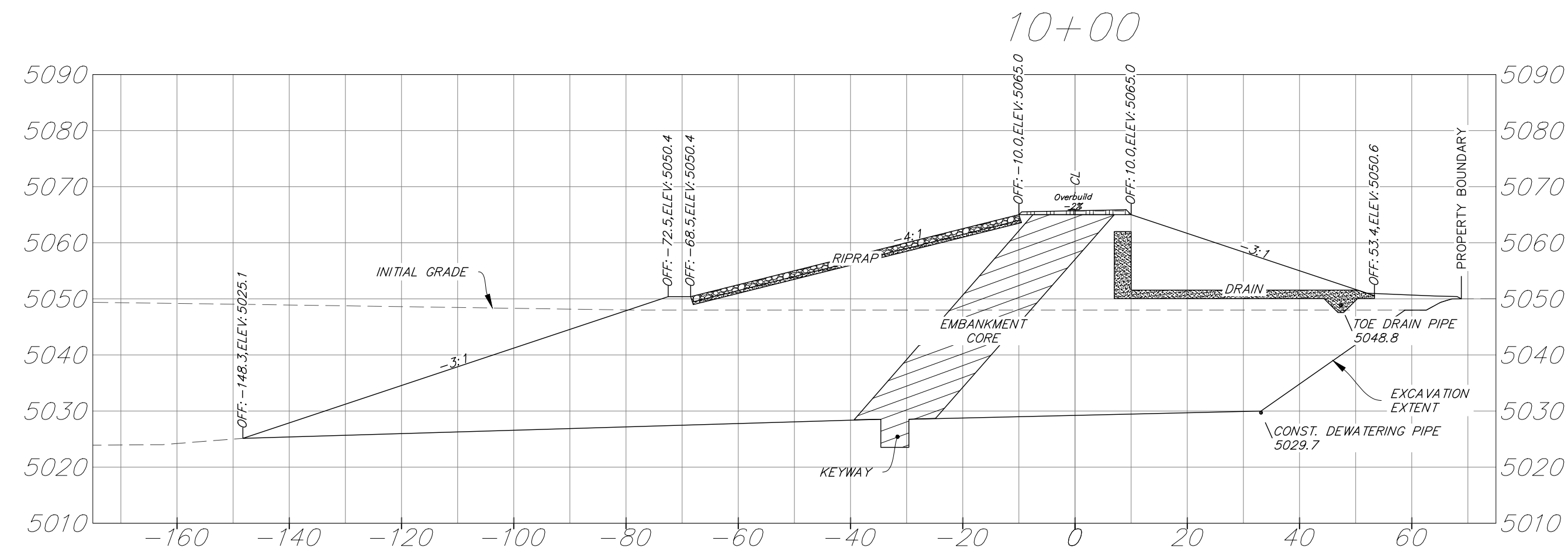
REVISIONS				OWNER CITY OF LAFAYETTE		CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038				 PO BOX 10007 BROOMFIELD CO 80008 PH 303-443-9821				PROJECT				SHEET							
REV	DESCRIPTION	DATE	APPROVED											GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (2 OF 8)				C-21							
																		DRAWING NO. 14 OF 29							
																		REVISION 0							
				CAD FILE NAME C-20-27 SECTION VIEWS F.DWG		PLOT DATE 2/1/21		APPROVED		DATE		DESIGNED PFW		CHECKED RB		DRAWN PFW		CONTRACT		DATE February 1, 2021		B.A. JOB 113136-000		SCALE 1"=20'	



- NOTES:
- SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 - UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 - VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2



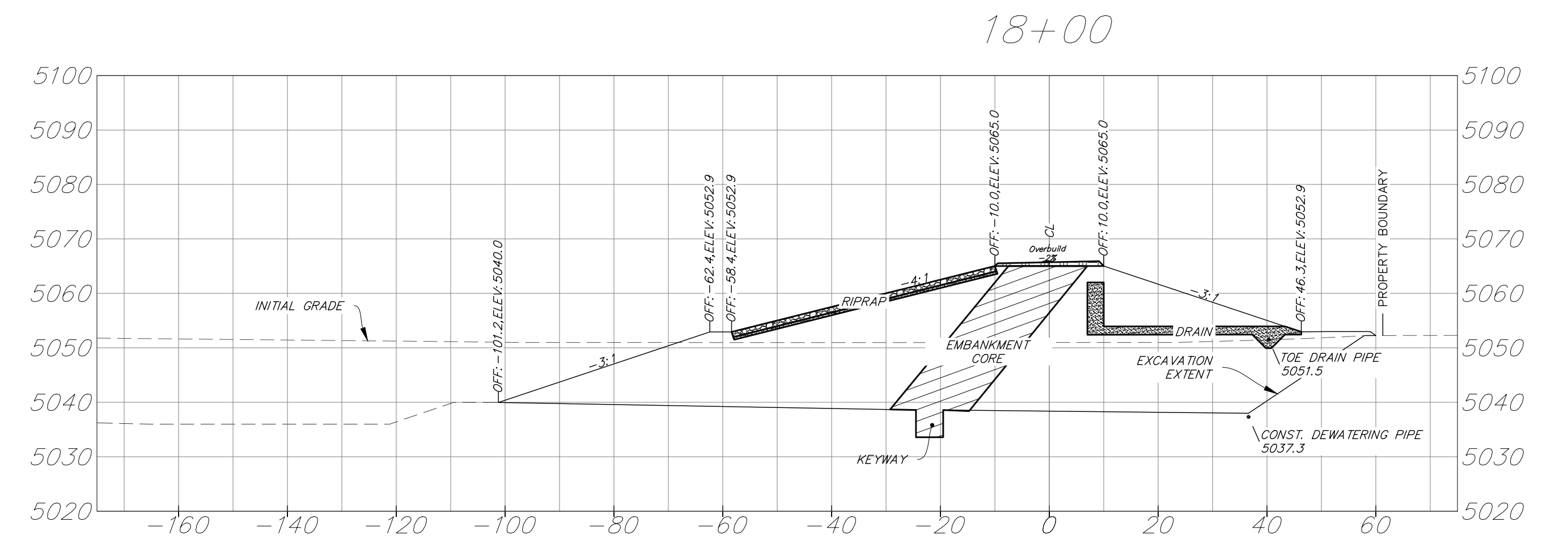
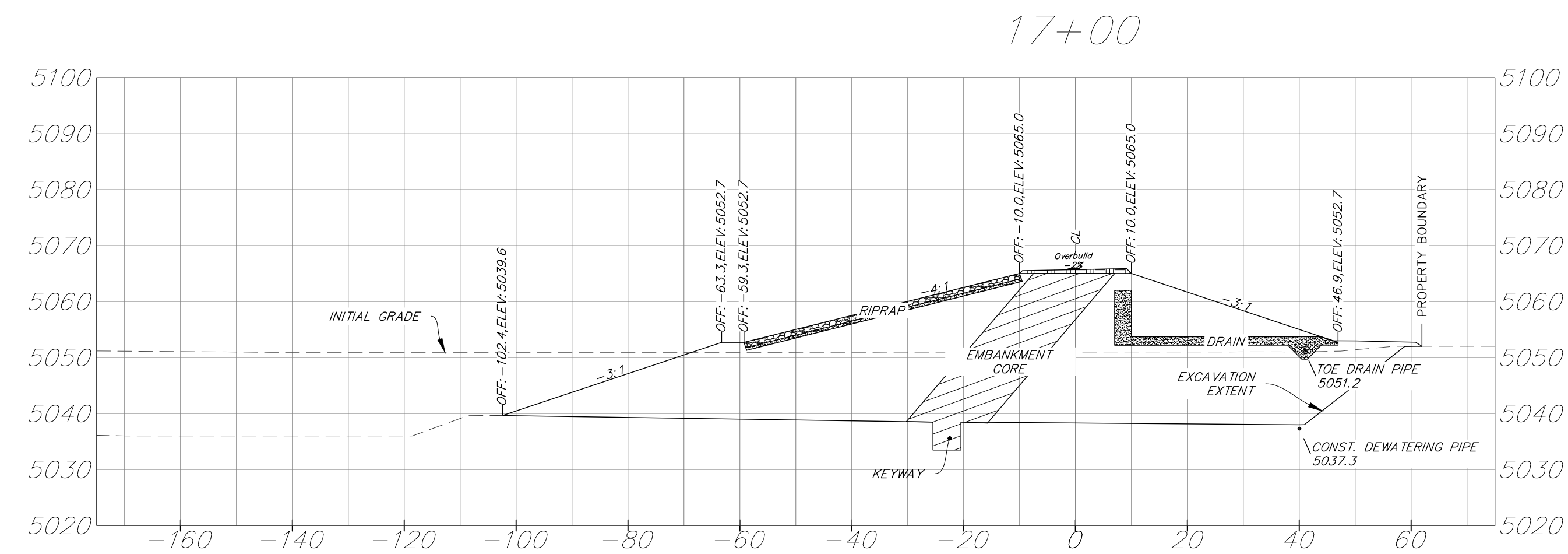
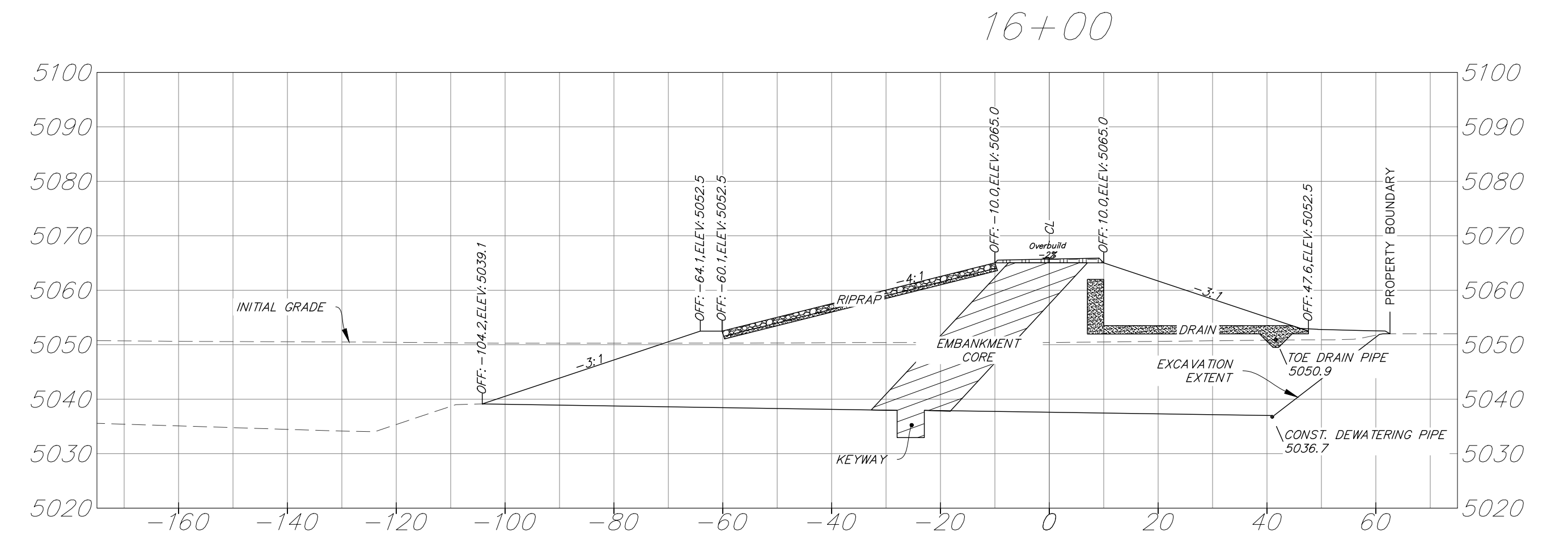
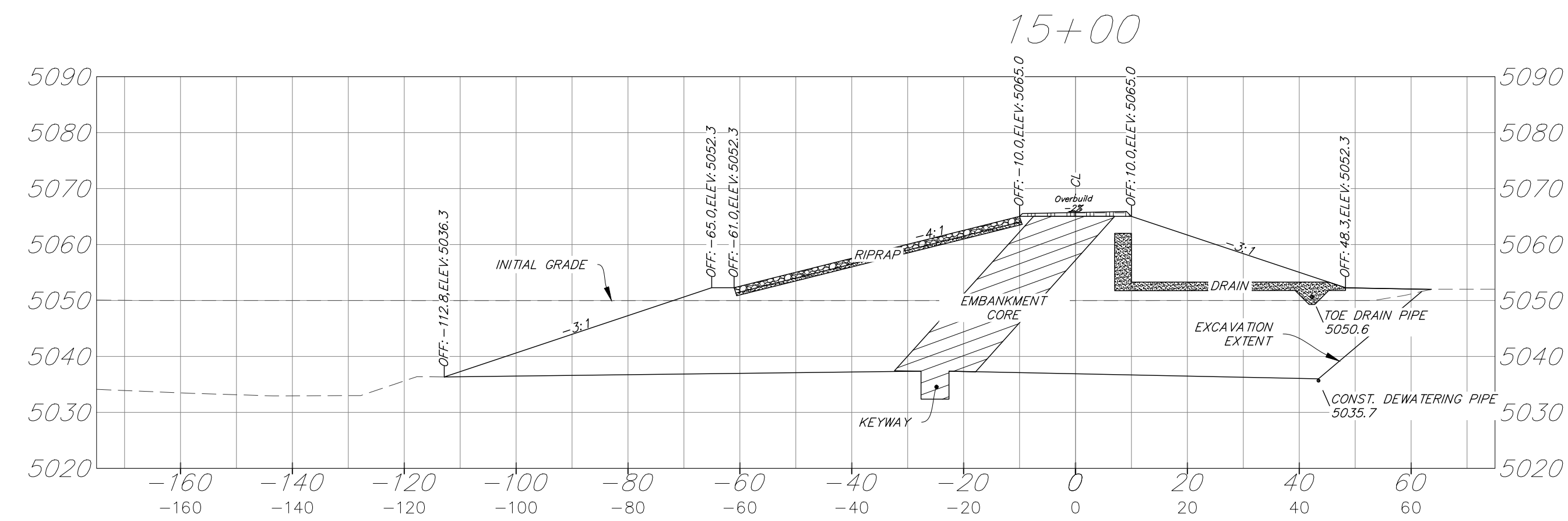
REVISIONS				OWNER CITY OF LAFAYETTE		CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038				 PO BOX 10007 BOULDER CO 80509 PH 303-443-9821			PROJECT GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (3 OF 8)			SHEET C-22	
REV	DESCRIPTION	DATE	APPROVED													DRAWING NO. 15 OF 29	
																REVISION 0	
CAD FILE NAME C-20-27 SECTION VIEWS F.DWG		PLOT DATE 2/1/21		APPROVED		DATE		DESIGNED PFW	CHECKED RB	DRAWN PFW	CONTRACT		DATE February 1, 2021	B.A. JOB 113136-000	SCALE 1"=20'		



- NOTES:
1. SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 2. UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 3. VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2

0 20' 40'

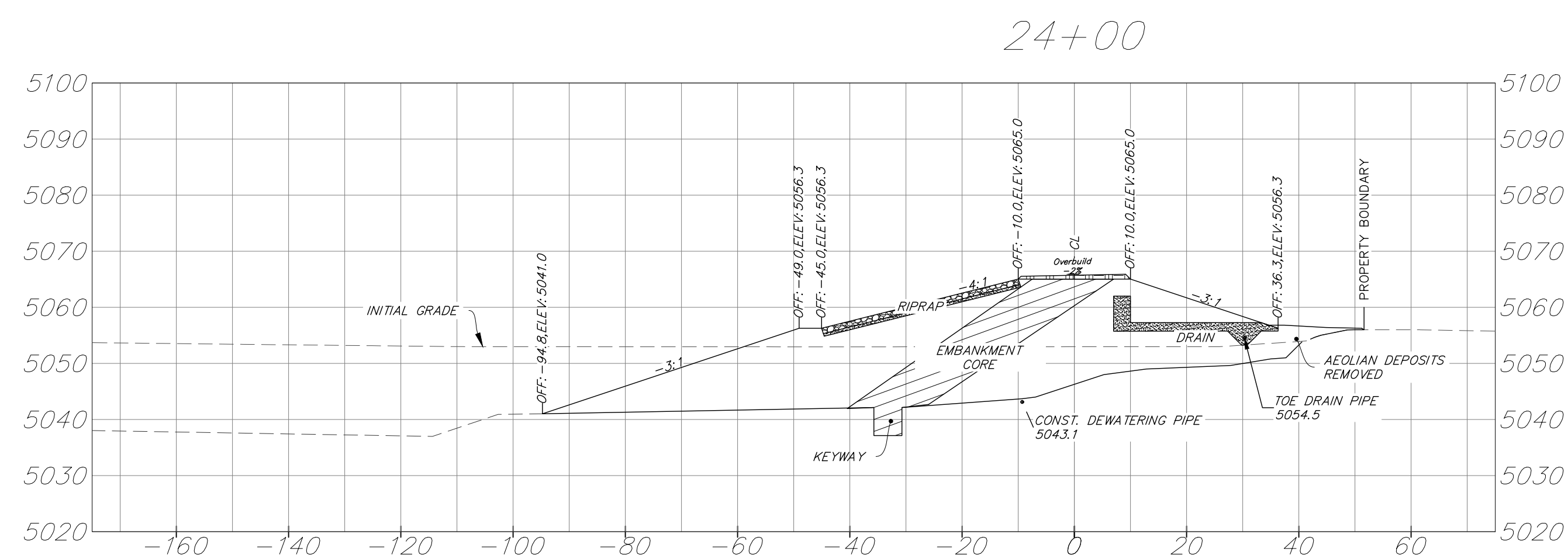
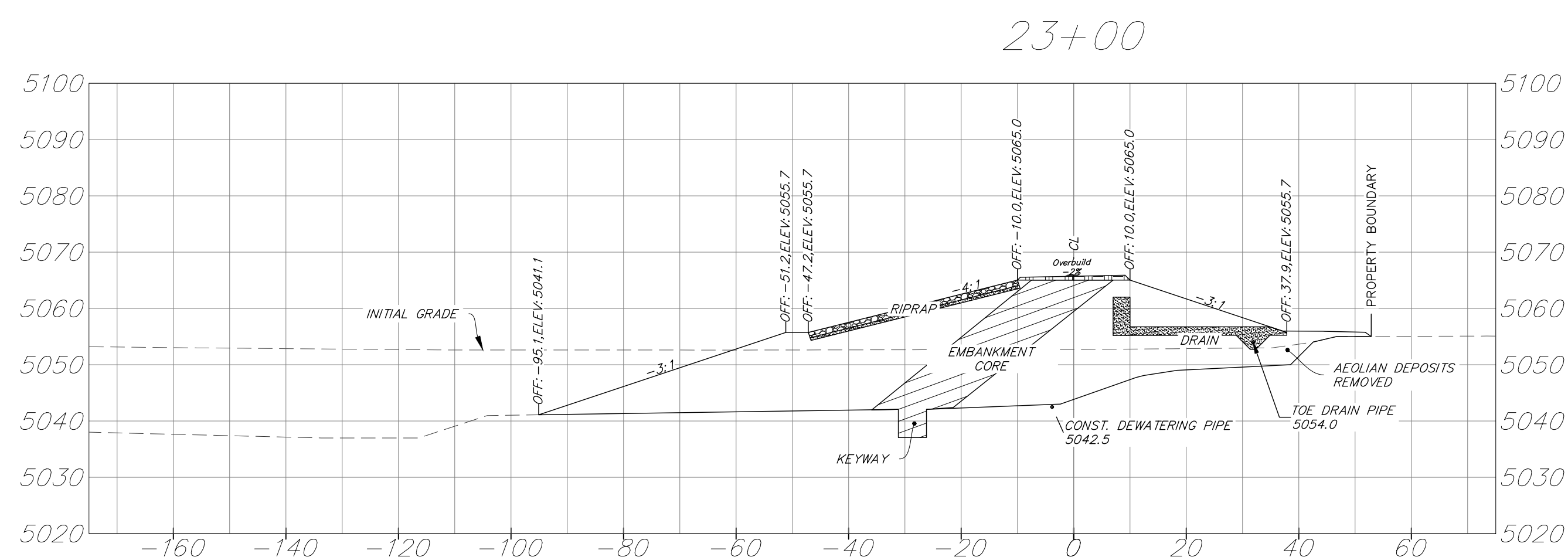
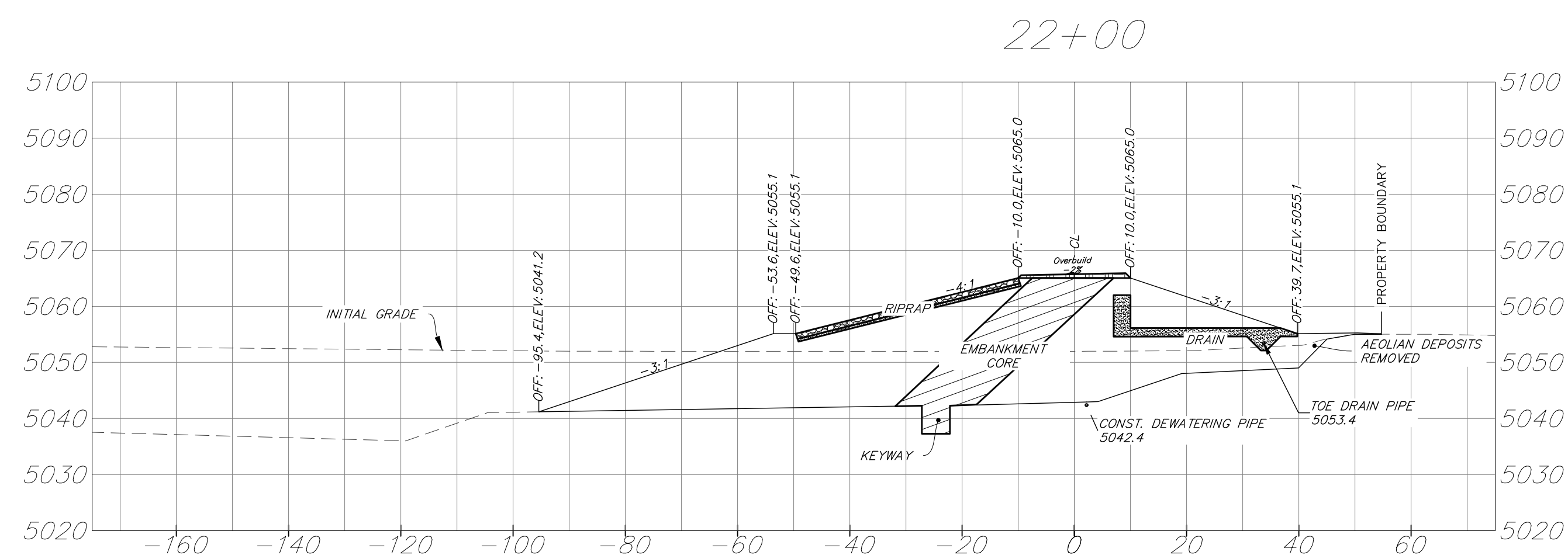
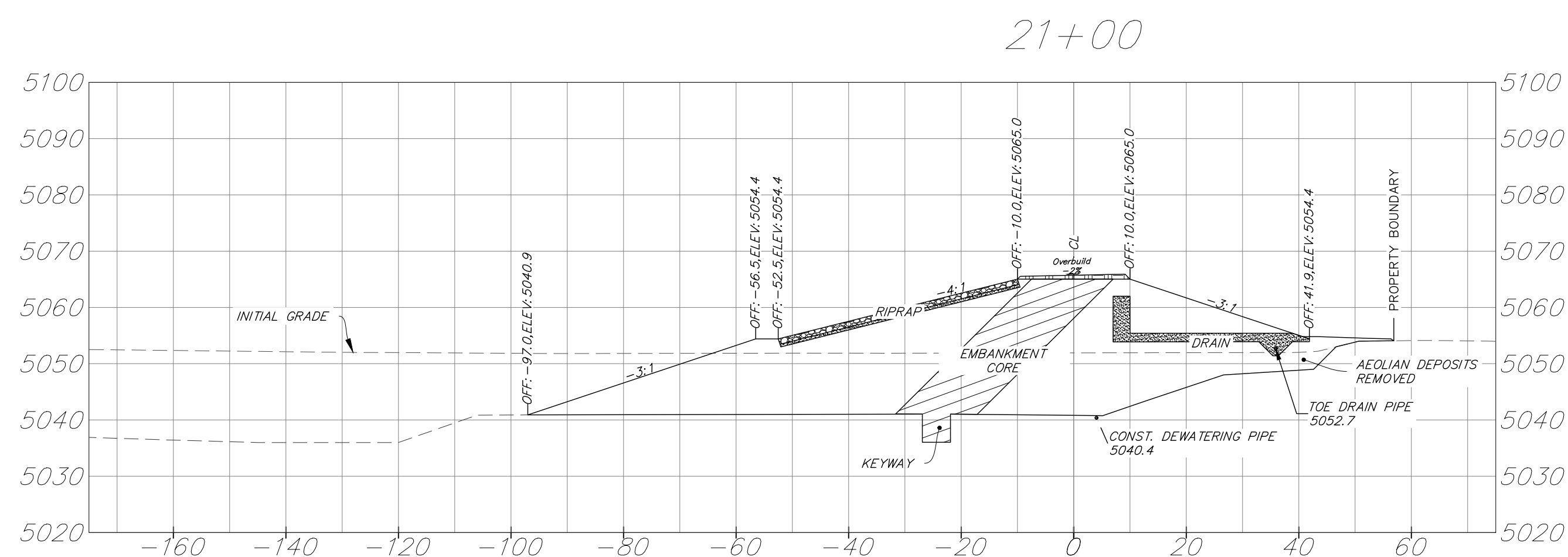
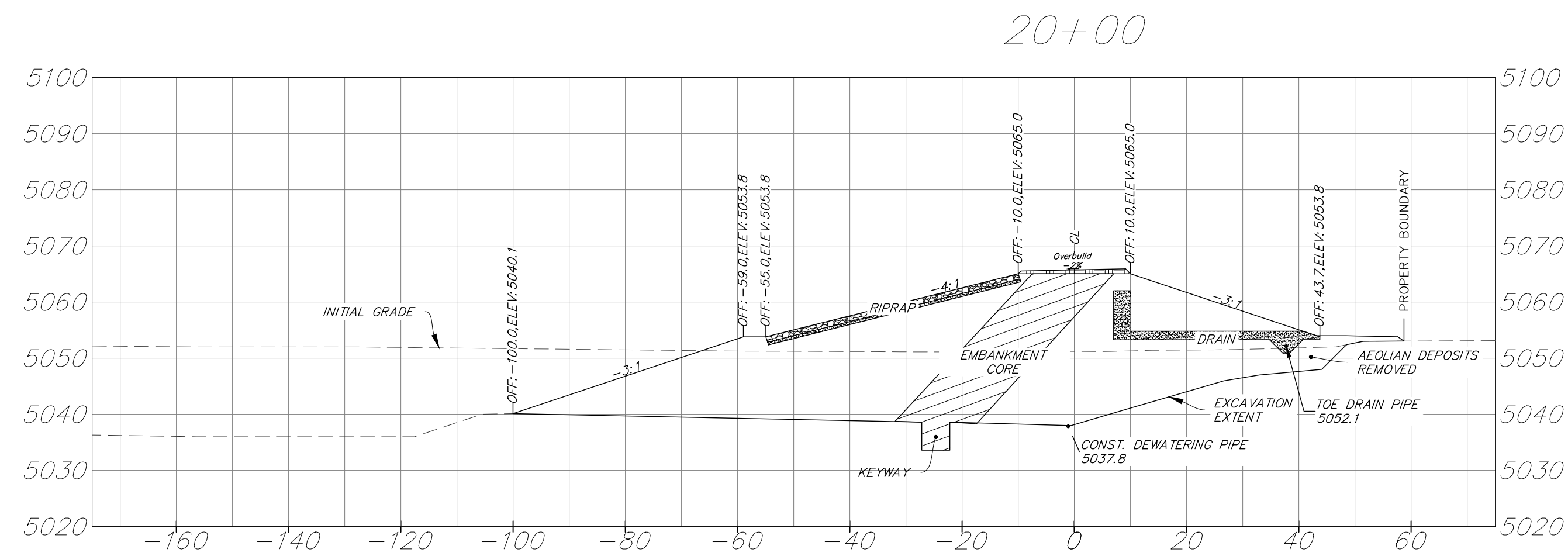
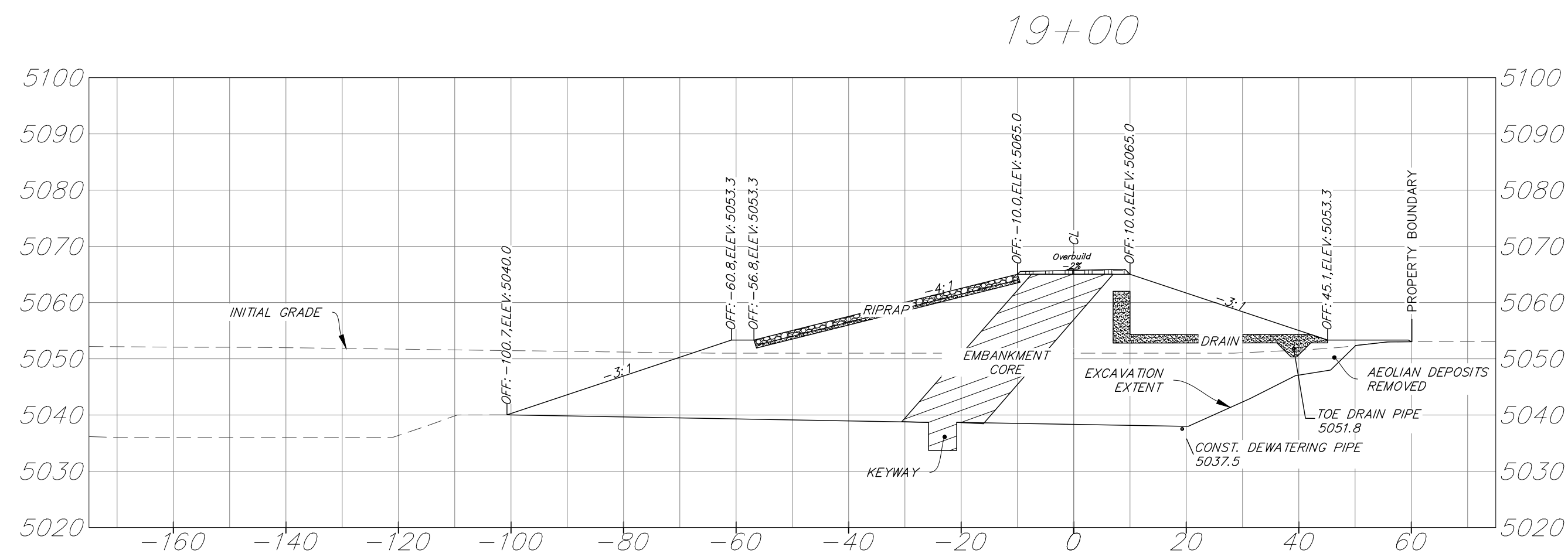
REVISIONS				OWNER CITY OF LAFAYETTE		CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038				 PO BOX 10087 BOULDER, CO 80308 303-443-9501			PROJECT GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (4 OF 8)			SHEET C-23	
REV	DESCRIPTION	DATE	APPROVED													DRAWING NO. 16 OF 29	
																REVISION 0	
																SCALE 1"=20'	
																CONTRACT February 1, 2021	
CAD FILE NAME C-20-27 SECTION VIEWS F.DWG				PLOT DATE 2/1/21		APPROVED		DATE		DESIGNED PFW	CHECKED RB	DRAWN PFW	B.A. JOB 113136-000				



- NOTES:
- SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 - UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 - VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2



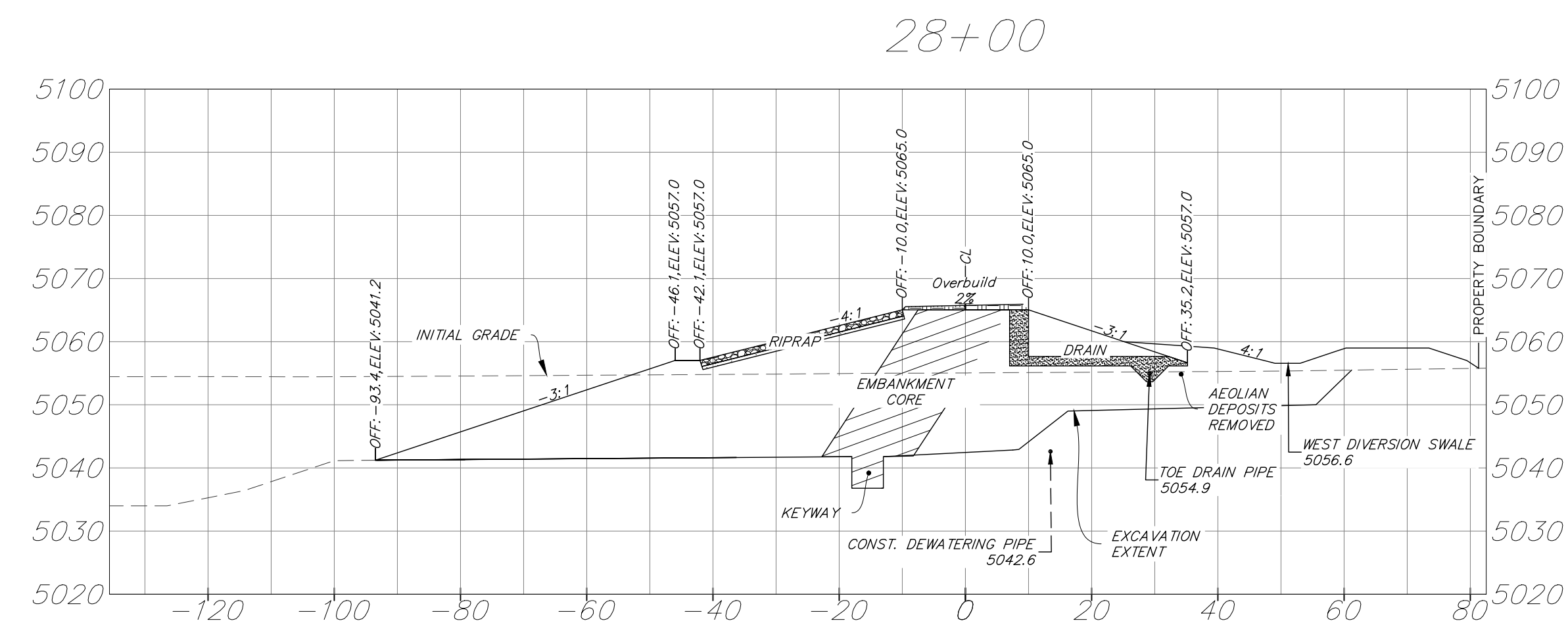
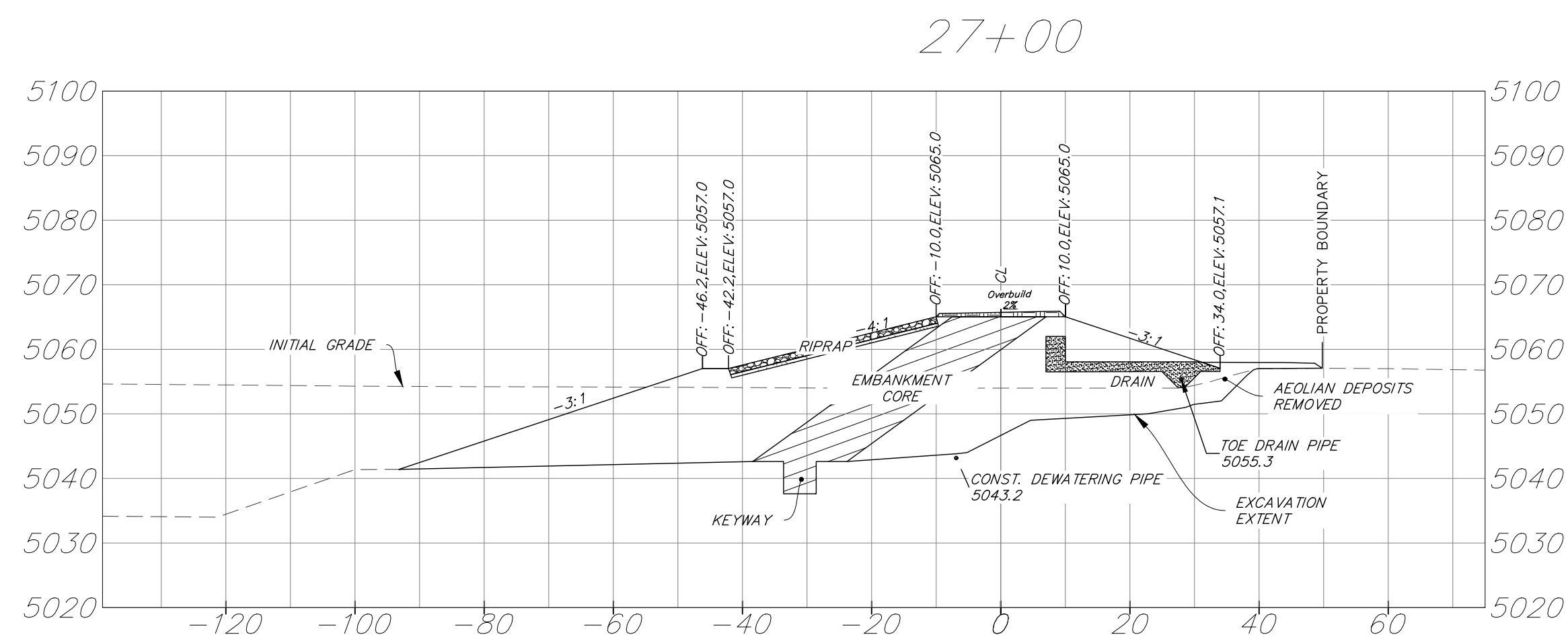
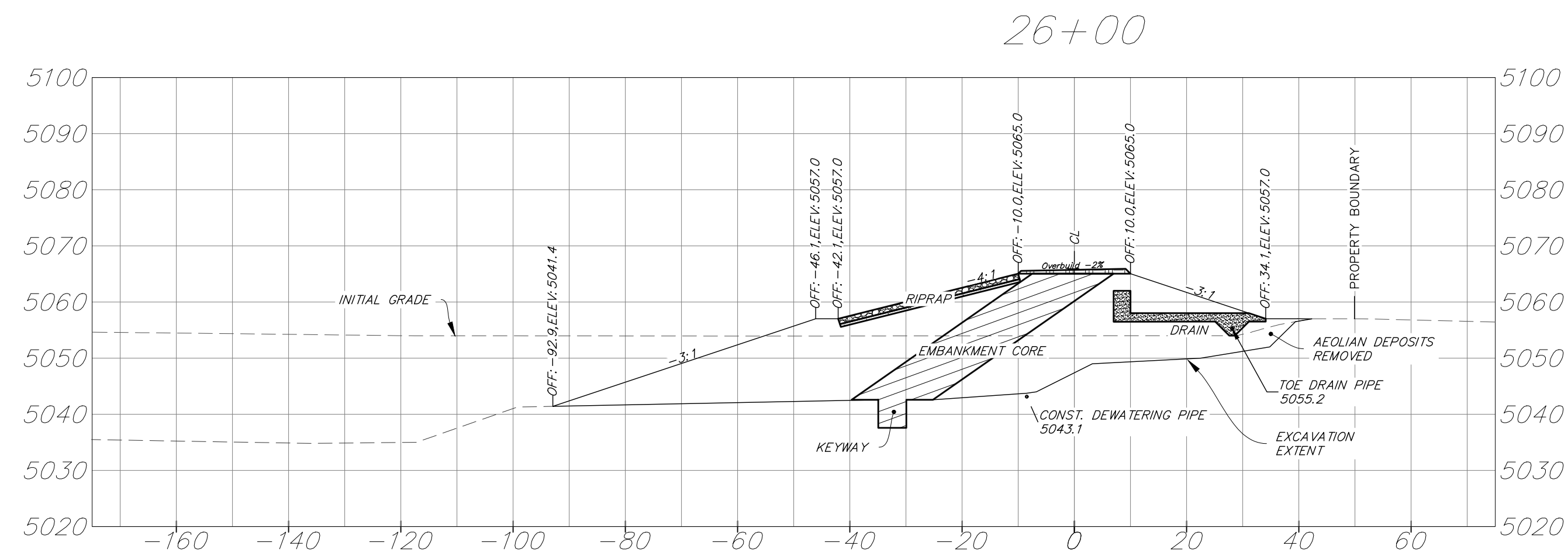
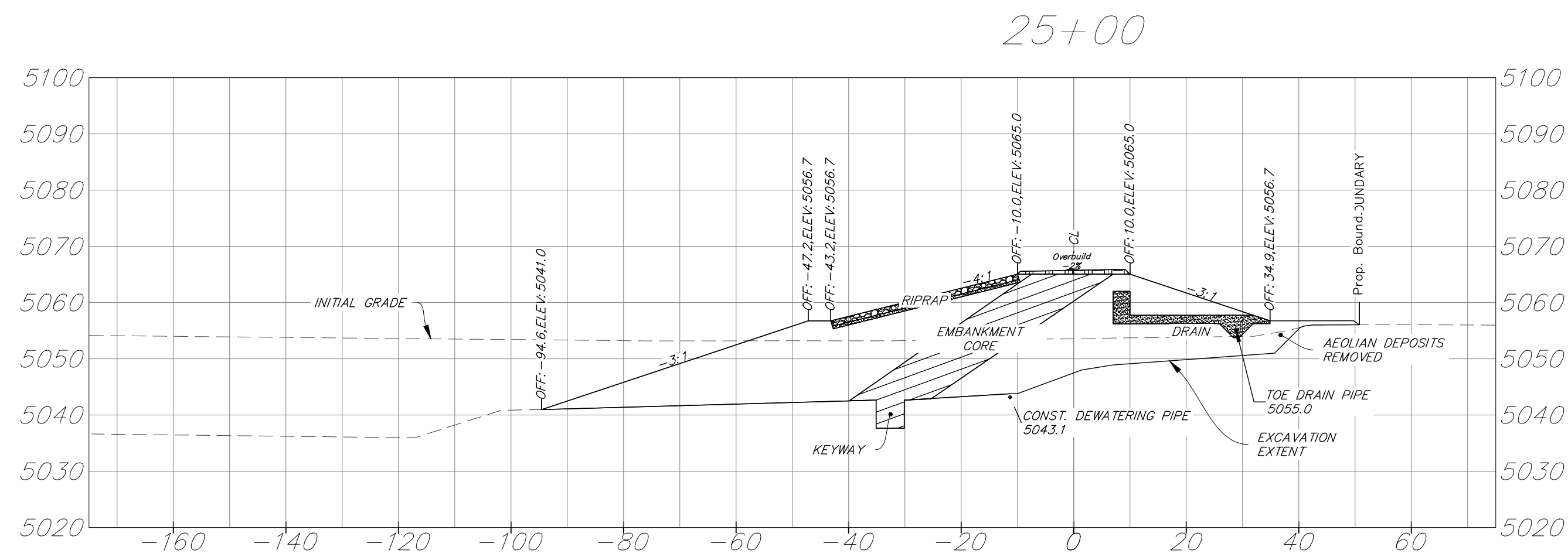
REVISIONS				OWNER CITY OF LAFAYETTE		CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038		 PO BOX 18087 BOULDER CO 80308 970-302-4421/9501			PROJECT			SHEET									
REV	DESCRIPTION	DATE	APPROVED								GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (5 OF 8)			C-24									
											DRAWING NO. 17 OF 29												
											REVISION 0												
CAD FILE NAME C-20-27 SECTION VIEWS F.DWG				PLOT DATE 2/1/21		APPROVED		DATE		DESIGNED PFW		CHECKED RB		DRAWN PFW		CONTRACT		DATE February 1, 2021		B.A. JOB 113136-000		SCALE 1"=20'	



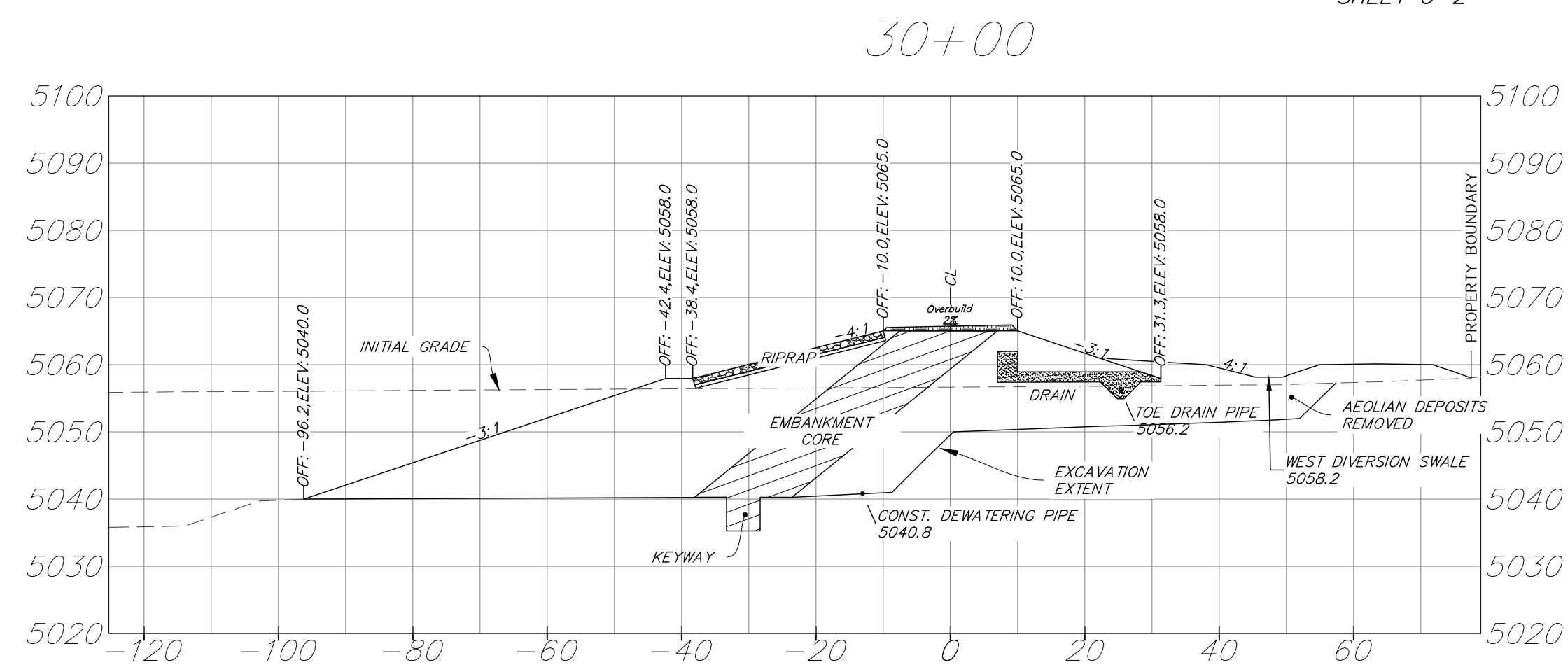
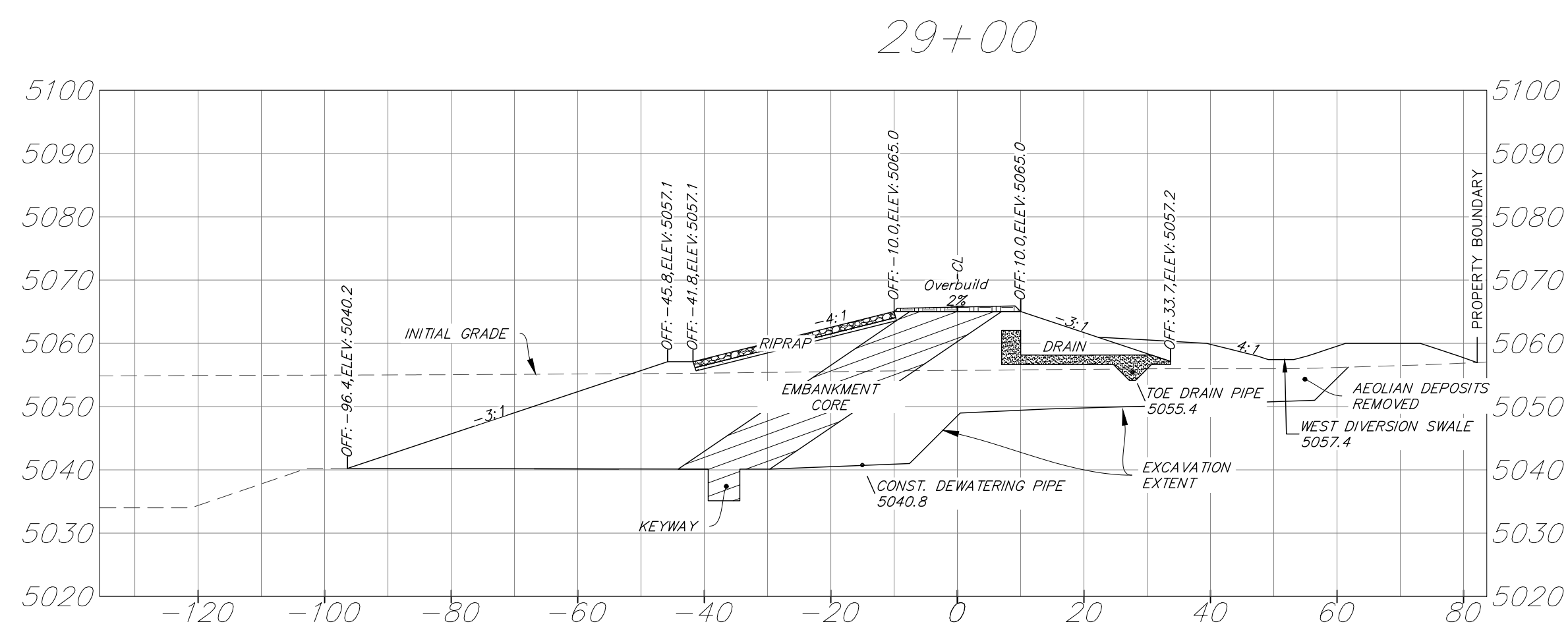
- NOTES:
- SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 - UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 - VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2



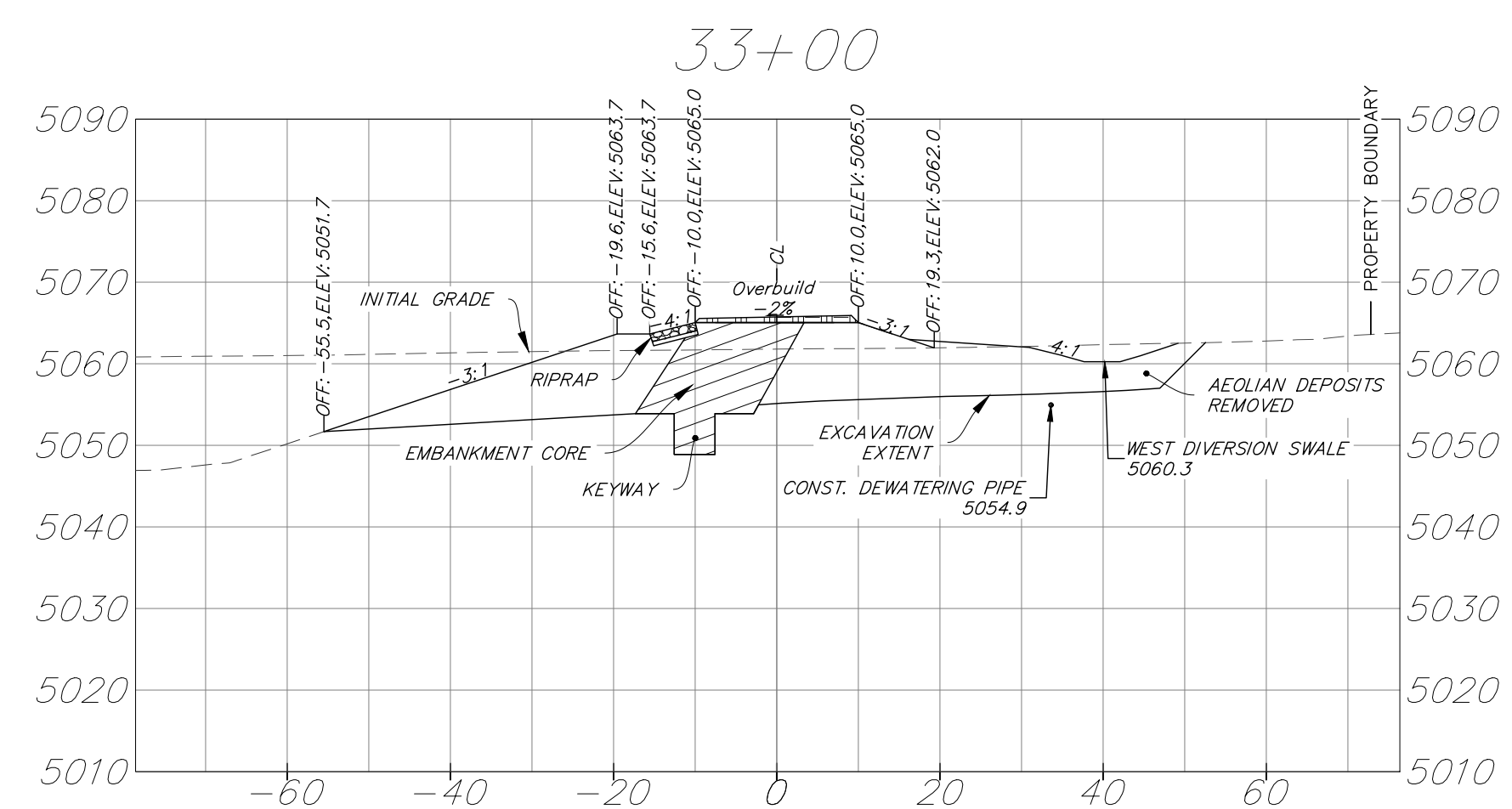
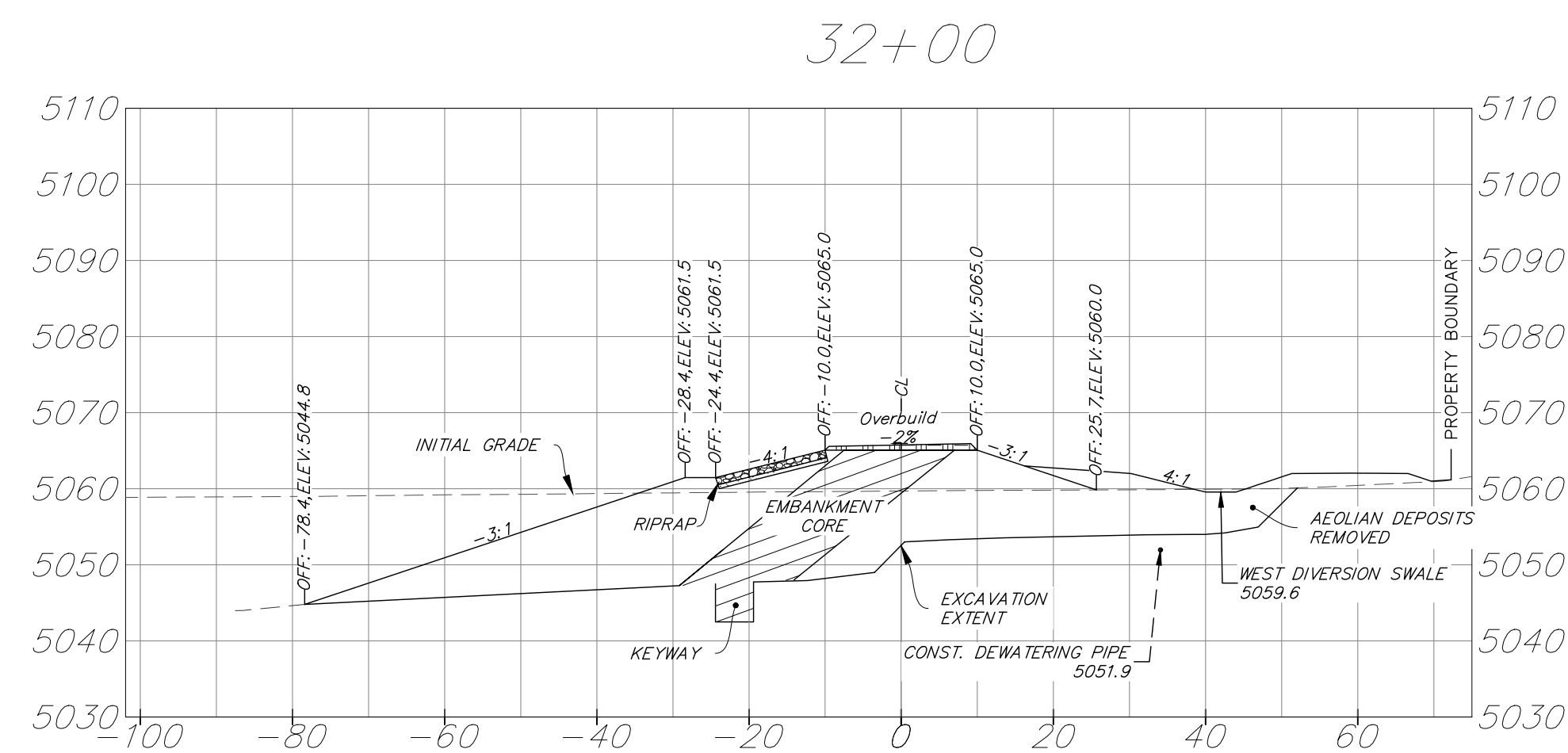
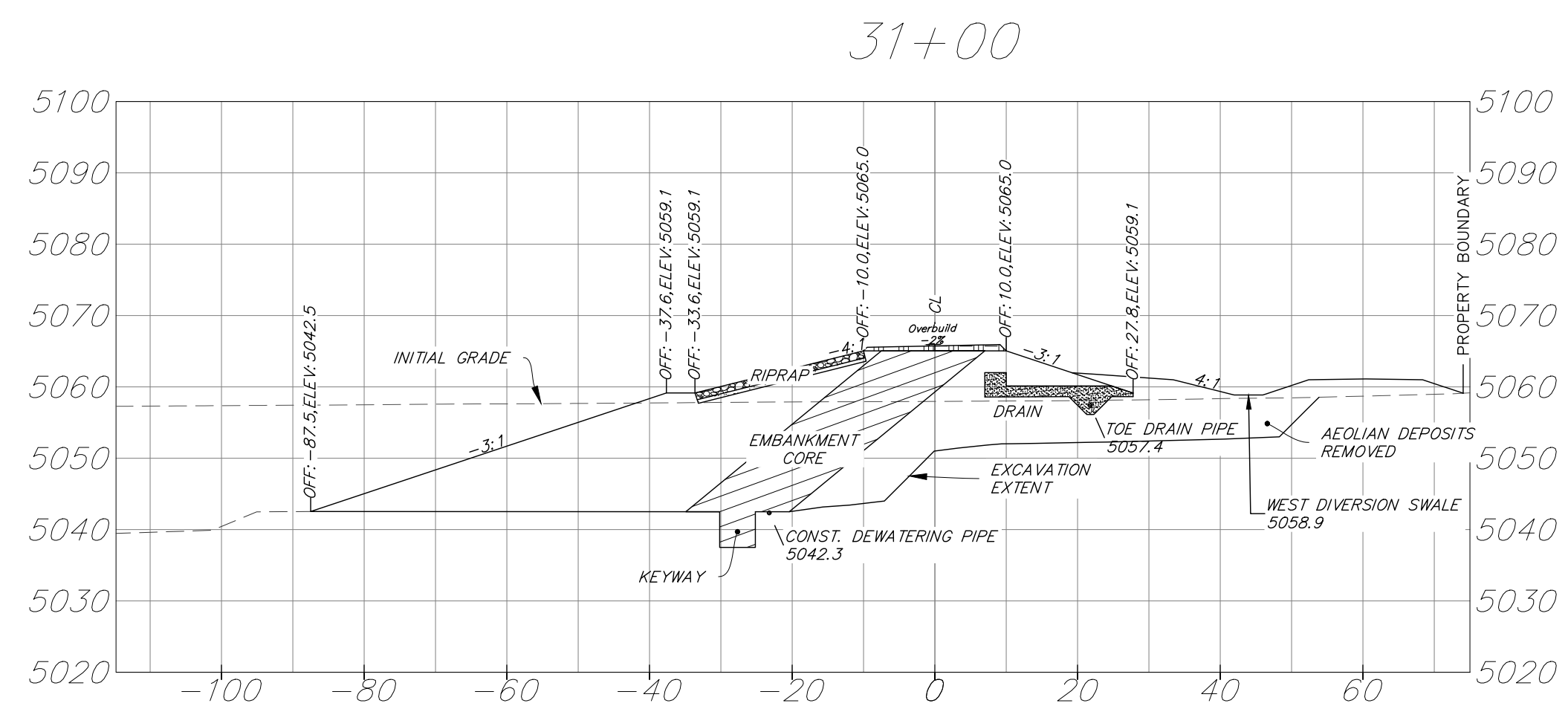
REVISIONS				OWNER	CONTRACTOR	PROJECT				SHEET	
REV	DESCRIPTION	DATE	APPROVED							C-25	DRAWING NO.
				CITY OF LAFAYETTE	ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038		GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (6 OF 8)	CONTRACT	DATE February 1, 2021	B.A. JOB 113136-000	18 OF 29
											REVISION
											0
				CAD FILE NAME C-20-27 SECTION VIEWS F.DWG	PLOT DATE 2/1/21	APPROVED	DATE	DESIGNED PFW	CHECKED RB	DRAWN PFW	SCALE 1"=20'



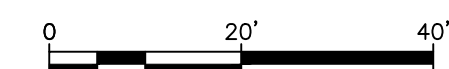
- NOTES:
- SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 - UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 - VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2



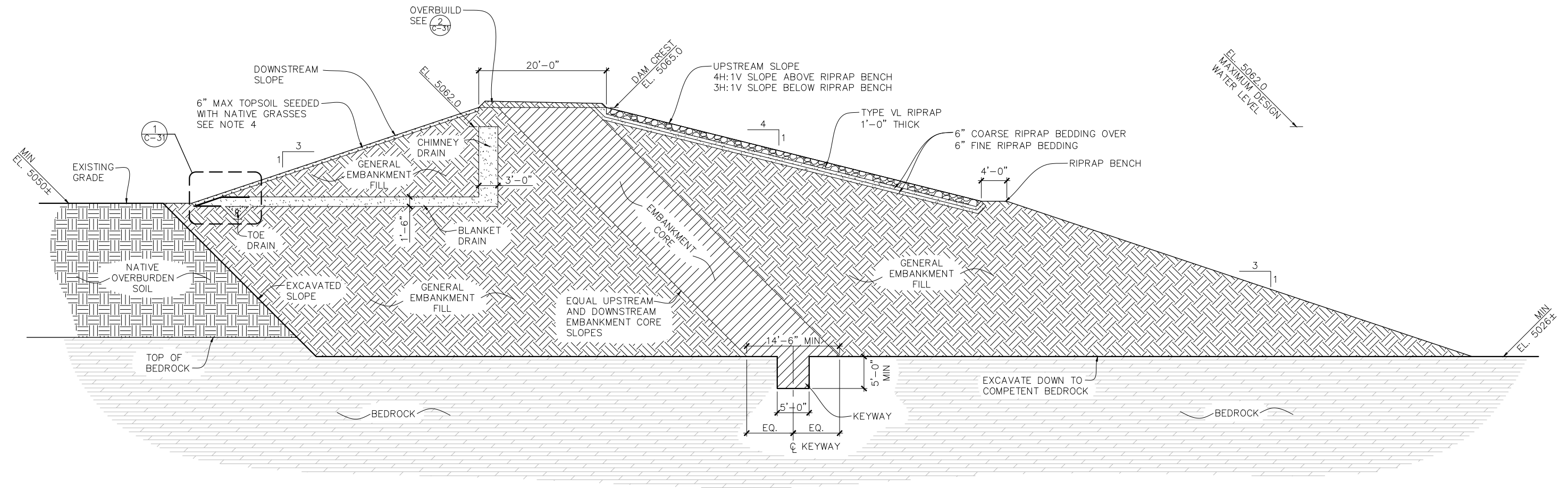
REVISIONS				OWNER CITY OF LAFAYETTE	CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038	 DESIGNED PFW CHECKED RB DRAWN PFW				PROJECT GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (7 OF 8)			SHEET C-26
REV	DESCRIPTION	DATE	APPROVED										DRAWING NO. 19 OF 29
													REVISION 0
													SCALE 1"=20'
CAD FILE NAME C-20-27 SECTION VIEWS F.DWG				PLOT DATE 2/1/21	APPROVED	DATE	DESIGNED PFW	CHECKED RB	DRAWN PFW	CONTRACT	DATE February 1, 2021	B.A. JOB 113136-000	



- NOTES:
1. SEE SHEETS C-30 AND C-31 FOR TYPICAL EMBANKMENT DAM SECTION AND DETAILS
 2. UNHATCHED AREA WITHIN DAM SECTION IS EMBANKMENT GENERAL FILL
 3. VERTICAL DATUM FOR SECTIONS IS DESCRIBED IN SHEET C-2

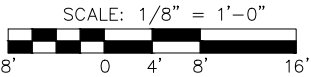


REVISIONS				OWNER		CONTRACTOR					PROJECT			SHEET	
REV	DESCRIPTION	DATE	APPROVED	CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038					GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM SECTIONS (8 OF 8)			C-27	
														DRAWING NO. 20 OF 29	
														REVISION 0	
				CAD FILE NAME C-20-27_SECTION_VIEWS.dwg	PLOT DATE 2/1/21	APPROVED	DATE	DESIGNED PFW	CHECKED RR	DRAWN PFW	CONTRACT	DATE February 1, 2021	B.A. JOB 113136-000	SCALE 1"=20'	



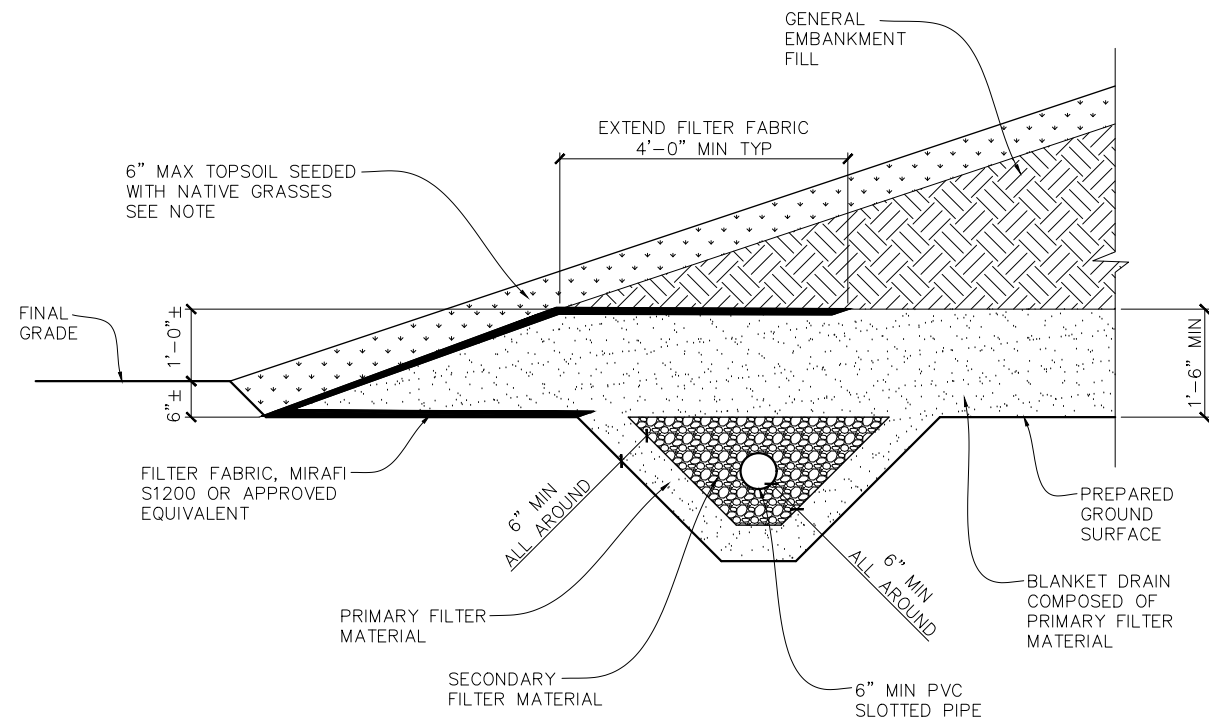
- NOTES:
- SEE THE PLANS AND SECTIONS ON SHEETS C-11 THROUGH C-27 FOR LOCATIONS AND ELEVATIONS OF THE EMBANKMENT CORE, KEYWAY, RIPRAP BENCH, EXCAVATED SLOPE, AND BLANKET DRAIN.
 - CHIMNEY DRAIN AND BLANKET DRAIN COMPOSED OF PRIMARY FILTER MATERIAL.
 - THE RIPRAP WAS SIZED WITH THE UNDERSTANDING THAT "TOLERABLE DAMAGE" TO THE RIPRAP IS ACCEPTABLE, MEANING THAT PERIODIC REPAIR OF DAMAGED RIPRAP MAY BE REQUIRED.
 - PLACE GRAVEL ROAD MATERIAL IN LIEU OF TOPSOIL FOR THE ACCESS ROAD FROM APPROX. STA 26+00 TO 33+17 SHOWN ON SHEETS C-16, C-26, AND C-27.

1 TYPICAL EMBANKMENT DAM DETAIL
C-20 SCALE: 1/8" = 1'-0"



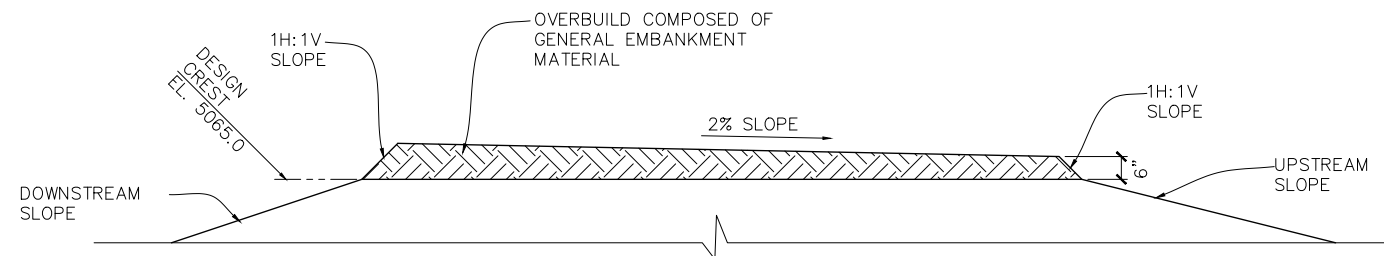
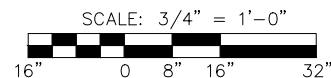
PRELIMINARY

						OWNER		CONTRACTOR				BRIERLEY ASSOCIATES						GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM DETAILS (1 OF 2)			SHEET C-30		
						CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO, LLC P.O. BOX 893 BROOMFIELD, CO 80038				Creating Space Underground 2000 S COLORADO BLVD, STE A-400, DENVER, CO 303.703.1405 FAX 303.534.1777									DRAWING NO. 21 OF 29		
						GRAPHIC SCALE															REVISION 0		
NO.	DATE	REVISIONS			BY	CK	CADD FILE NAME C-30.DWG	PLOT DATE		APPROVED		DATE		DESIGNED REB	CHECKED MG	DRAWN REB				CONTRACT	DATE DEC. 23, 2020	B.A. JOB 113136-000	SCALE 1/8" = 1'-0"

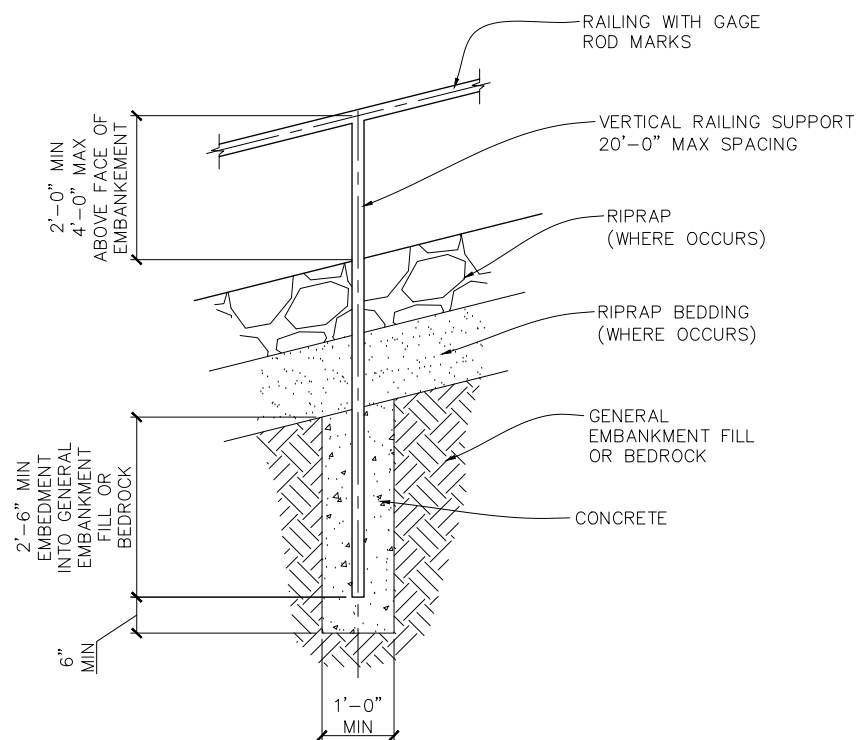
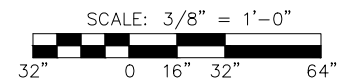


NOTE: PLACE GRAVEL ROAD MATERIAL IN LIEU OF TOPSOIL FOR THE ACCESS ROAD FROM APPROX. STA 26+00 TO 33+17 SHOWN ON SHEETS C-16, C-26, AND C-27.

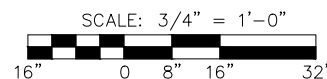
1 TOE DRAIN
C-30 SCALE: 3/4" = 1'-0"



2 OVERBUILD
G-05 SCALE: 3/8" = 1'-0"

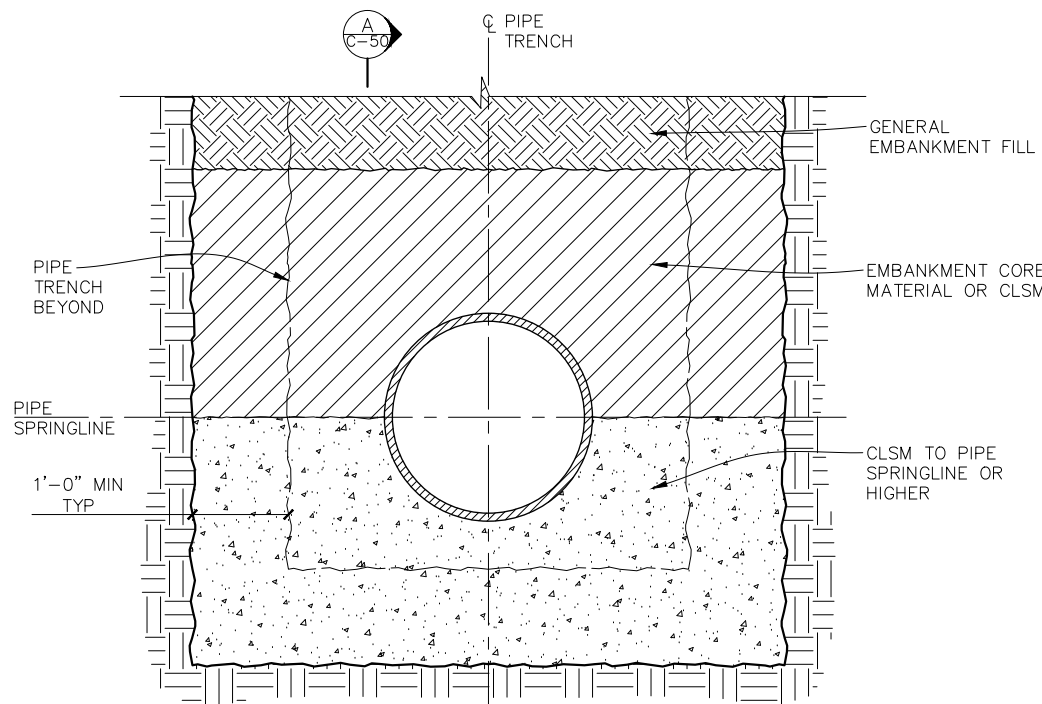


3 GAGE ROD
C-22 SCALE: 3/4" = 1'-0"

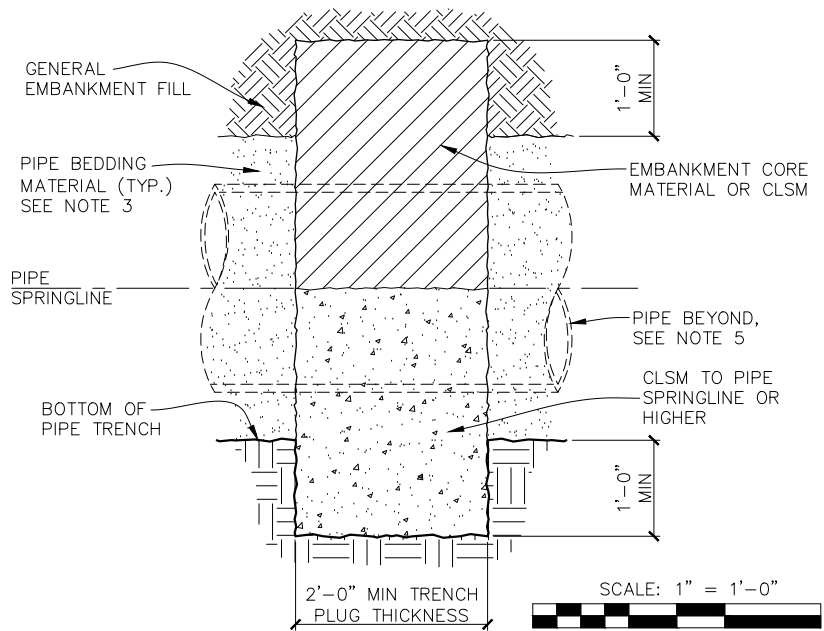


PRELIMINARY

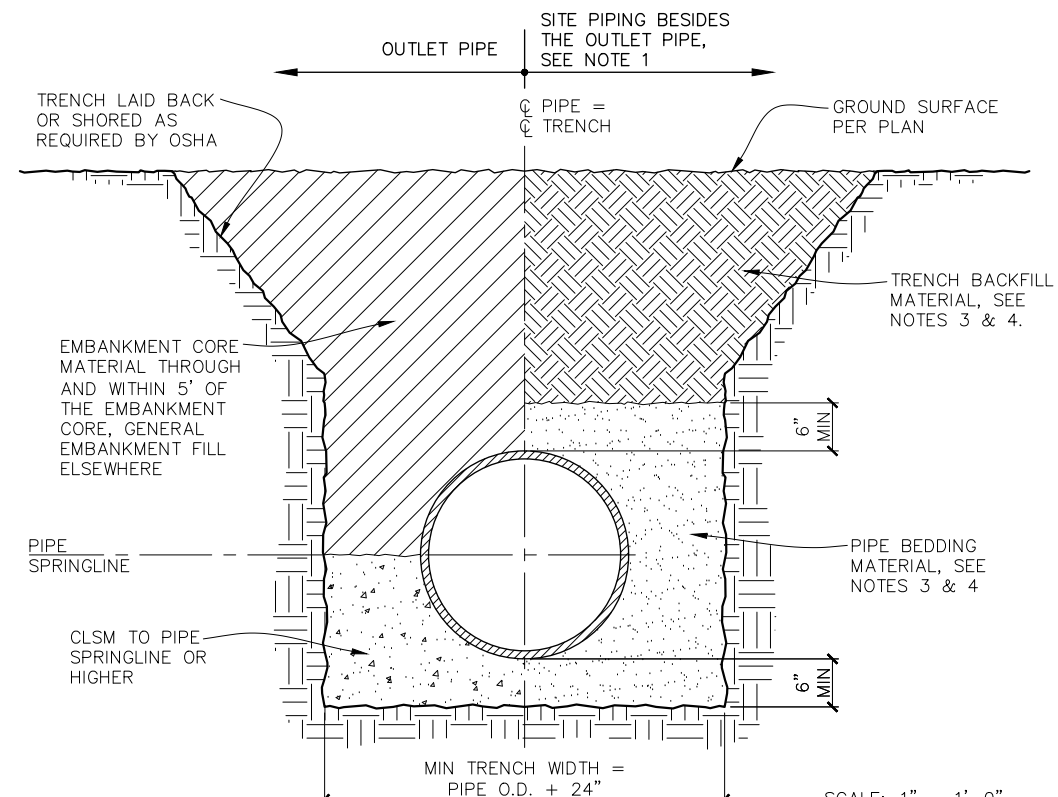
					OWNER					CONTRACTOR					BRIERLEY ASSOCIATES					GOOSE HAVEN RESERVOIR CELL 2A EMBANKMENT DAM DETAILS (2 OF 2)					SHEET C-31	
					CITY OF LAFAYETTE					ROCK PRODUCTS OF COLORADO, LLC P.O. BOX 893 BROOMFIELD, CO 80038					Creating Space Underground 2000 S COLORADO BLVD, STE A-400, DENVER, CO 303.703.1405 FAX 303.534.1777										DRAWING NO. 22 OF 29	
					GRAPHIC SCALE 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"																				REVISION 0	
					CADD FILE NAME C-31.DWG					PLOT DATE					DESIGNED REB					CONTRACT					SCALE AS SHOWN	
NO.					DATE					APPROVED					CHECKED MG					DATE DEC. 23, 2020					B.A. JOB 113136-000	
REVISIONS					BY					PLOT DATE					DRAWN REB					DATE					SCALE	



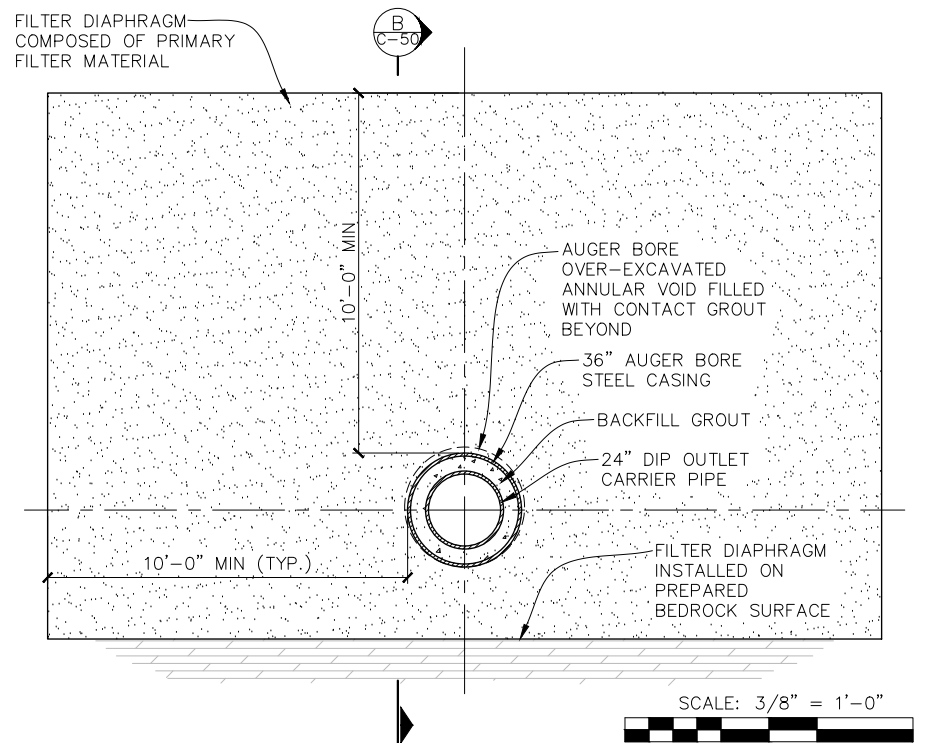
2 TRENCH PLUG DETAIL
C-11 SCALE: 1" = 1'-0"



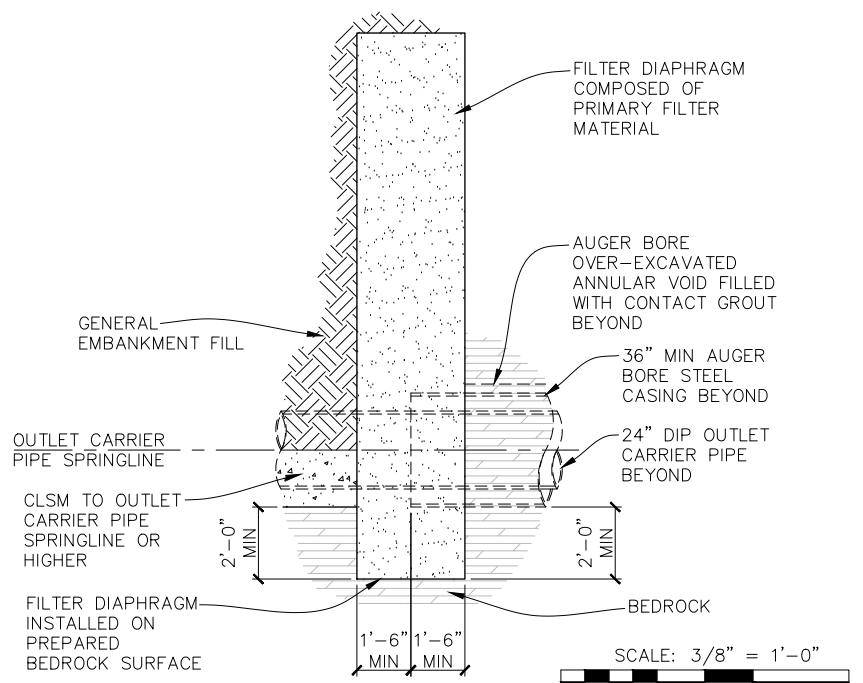
A TRENCH PLUG SECTION
C-50 SCALE: 1" = 1'-0"



1 PIPE TRENCH DETAIL
C-11 SCALE: 1" = 1'-0"



4 FILTER DIAPHRAGM DETAIL
C-22 SCALE: 3/8" = 1'-0"

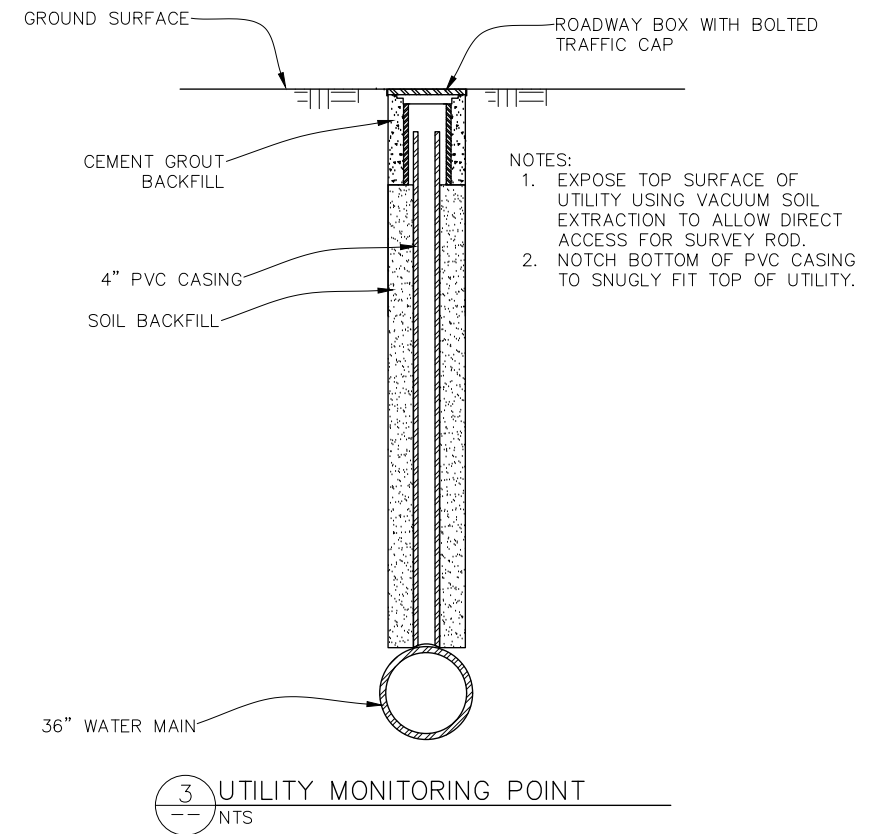
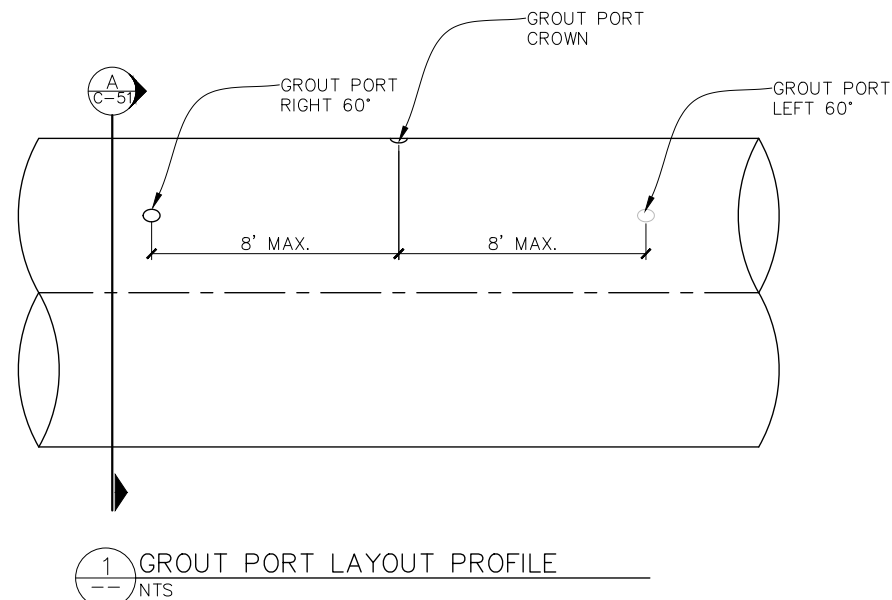
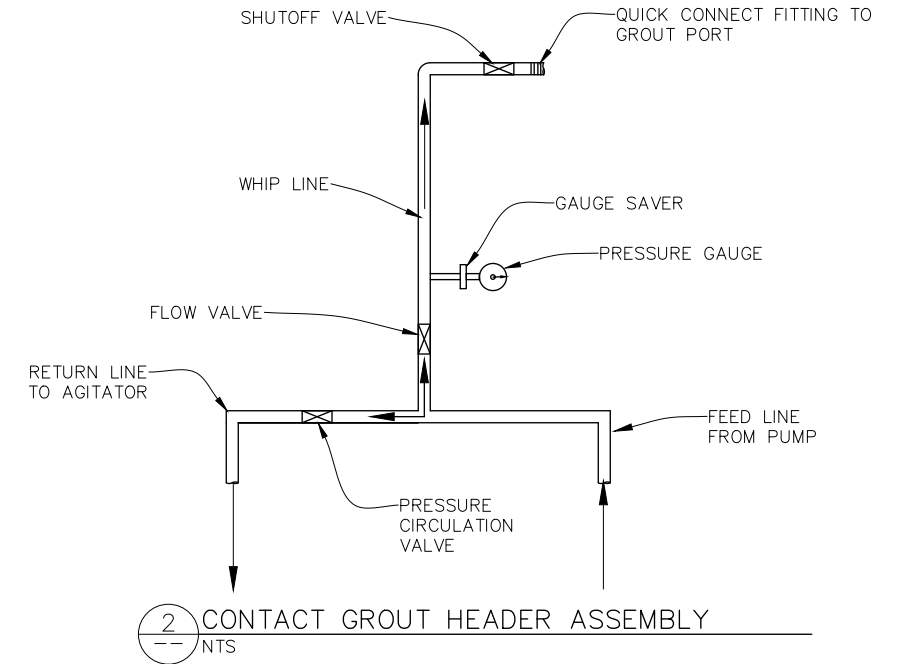
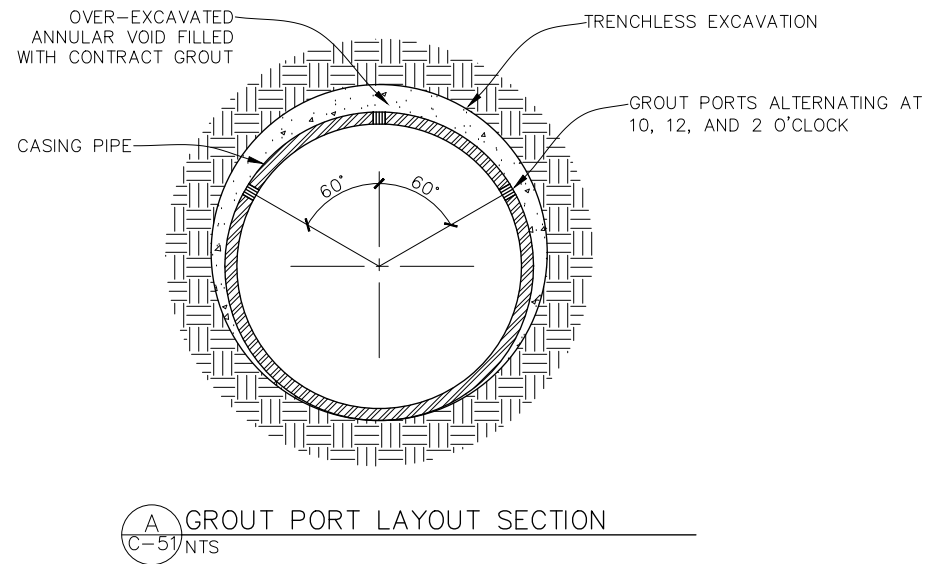
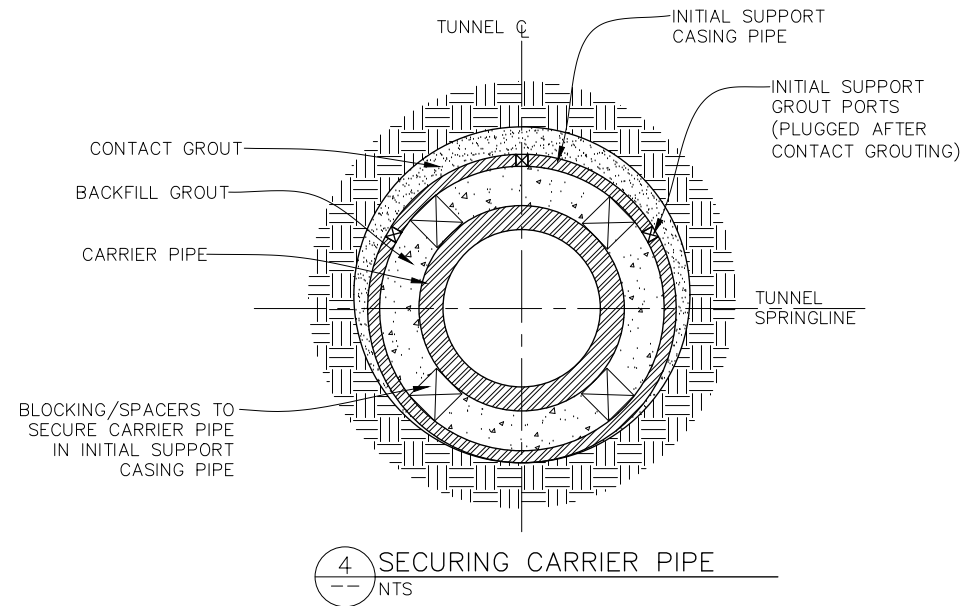


B FILTER DIAPHRAGM SECTION
C-50 SCALE: 3/8" = 1'-0"

- PIPE TRENCH NOTES:**
- PIPE TRENCH DETAIL SHOWN IS INTENDED TO BE USED ONLY FOR THE SITE PIPING SHOWN ON SHEET C-11.
 - WAVE PROTECTION FOR THE RESERVOIR 2A INLET PIPE IS NOT ADDRESSED IN THIS DESIGN PACKAGE.
 - FOR THE 30" PVC BYPASS PIPE WITHIN 25 FEET OF THE RESERVOIR 2-2A INLET BOX AND FOR THE ENTIRE LENGTH OF THE 24" RESERVOIR BYPASS PIPE:
 - PIPE BEDDING MATERIAL SHALL BE COMPOSED OF PRIMARY FILTER MATERIAL.
 - TRENCH BACKFILL MATERIAL SHALL BE COMPOSED OF EMBANKMENT CORE MATERIAL WITHIN THE EMBANKMENT CORE AND GENERAL EMBANKMENT FILL ELSEWHERE. TRENCH BACKFILL MATERIAL SHALL ALSO MEET THE REQUIREMENTS OF PART 2.5 OF SPECIFICATION SECTION 31 23 23, "TRENCH BACKFILL".
 - FOR ALL SITE PIPING SHOWN ON SHEET C-11 BESIDES THE OUTLET PIPE AND THE PIPING DESCRIBED IN NOTE 3:
 - PIPE BEDDING MATERIAL SHALL MEET THE GRADATION REQUIREMENTS OF PART 2.4-B OF SPECIFICATION SECTION 31 23 23, "TRENCH BACKFILL".
 - TRENCH BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF PART 2.5 OF SPECIFICATION SECTION 31 23 23, "TRENCH BACKFILL".
 - PIPE JOINTS SHALL BE LOCATED 8 FEET MINIMUM FROM THE TRENCH PLUGS.

PRELIMINARY

				OWNER		CONTRACTOR		BRIERLEY ASSOCIATES			GOOSE HAVEN RESERVOIR CELL 2A PIPE TRENCH DETAILS			SHEET C-50	
				CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO, LLC		Creating Space Underground						DRAWING NO. 23 OF 29	
				P.O. BOX 893		BROOMFIELD, CO 80038		2000 S COLORADO BLVD, STE A-400, DENVER, CO 303.703.1405						REVISION 0	
				GRAPHIC SCALE 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"				FAX 303.534.1777						SCALE AS SHOWN	
				CADD FILE NAME C-50.DWG		PLOT DATE		APPROVED			DESIGNED REB			CONTRACT	
				NO.		DATE		DATE			CHECKED MG			DATE FEB. 1, 2020	
				REVISIONS		BY		B.A. JOB 113136-000			DRAWN REB				



PRELIMINARY

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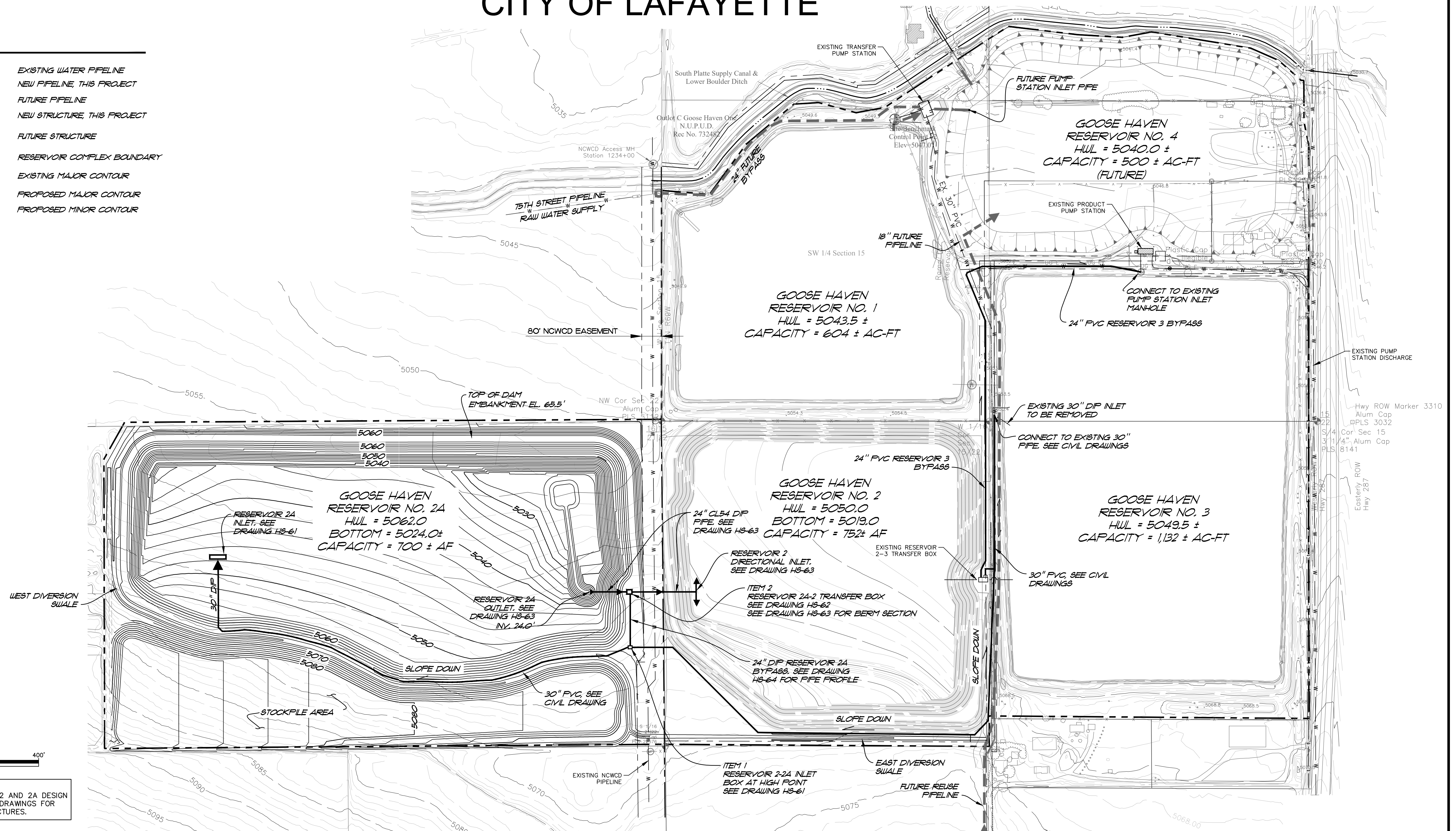
GOOSE HAVEN RESERVOIR HYDRAULIC STRUCTURES

CITY OF LAFAYETTE



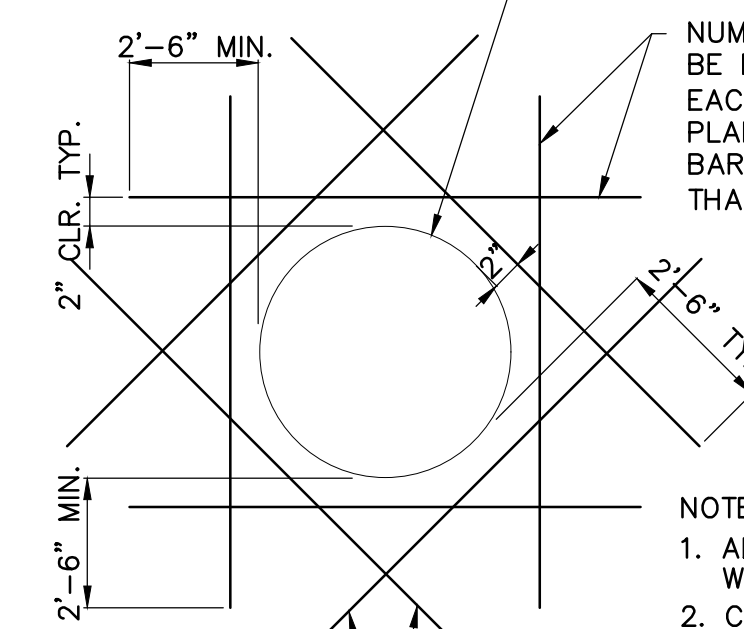
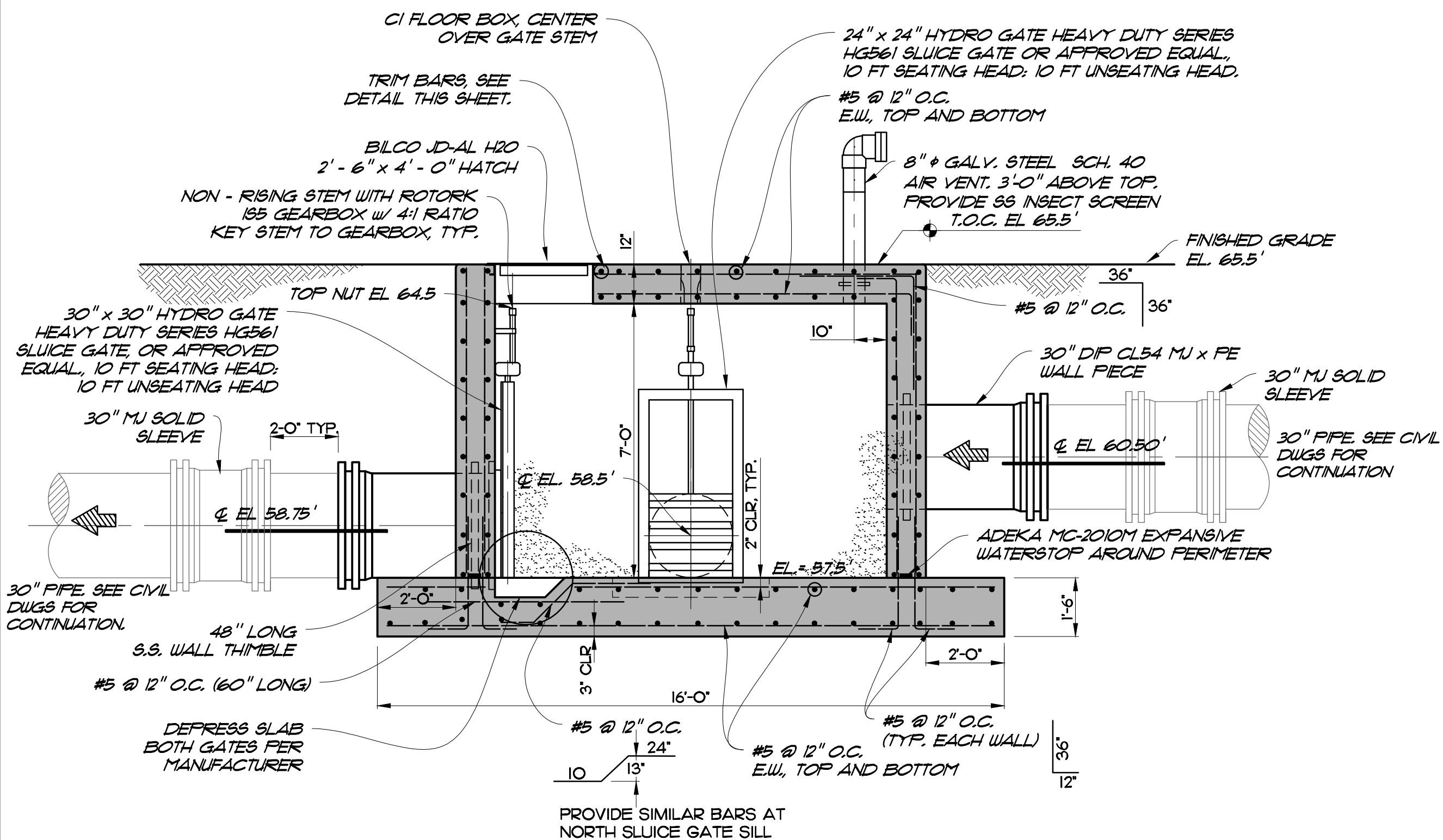
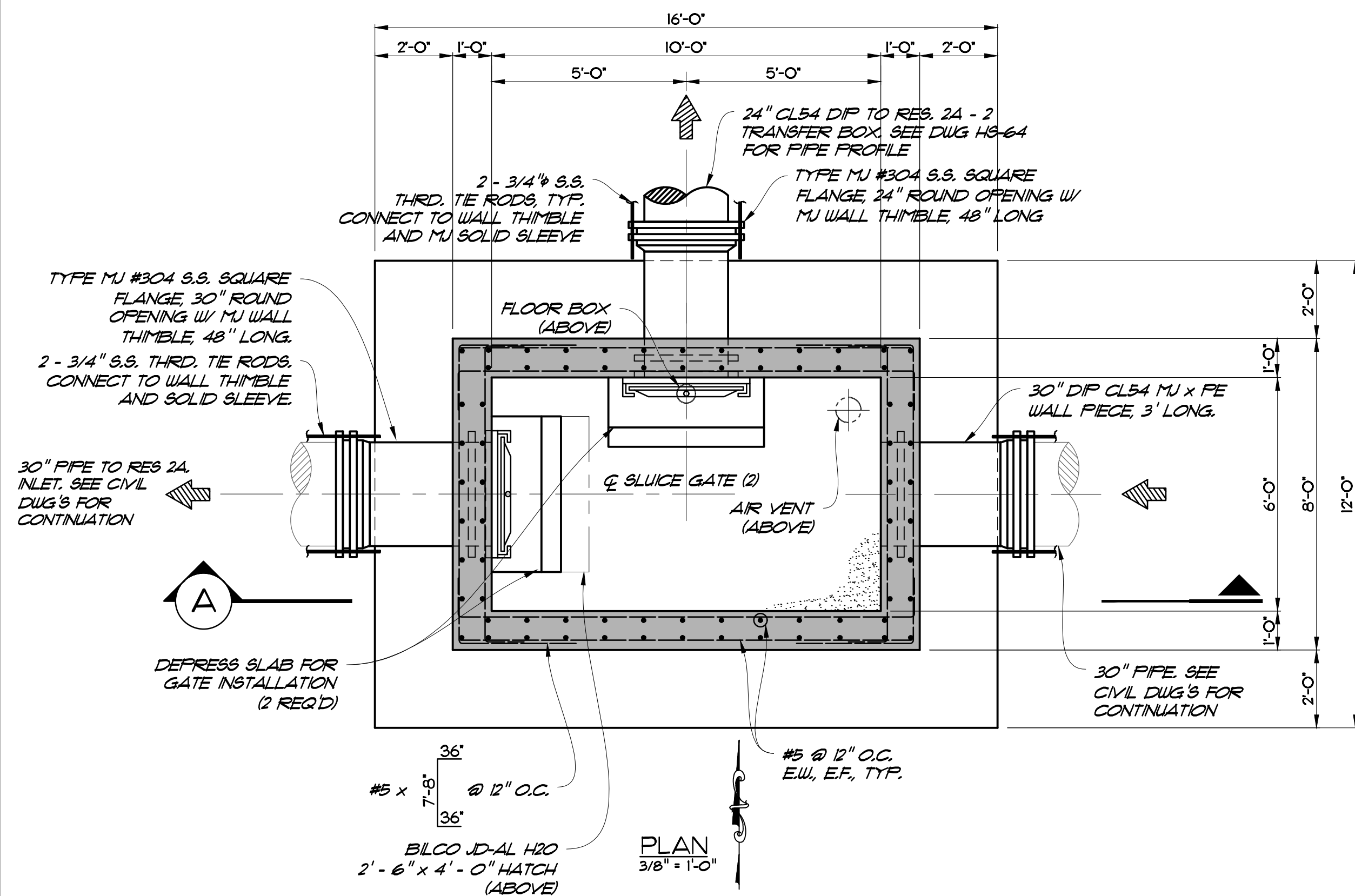
LEGEND

-
- Legend:
- W
 - EXISTING WATER PIPELINE
 - NEW PIPELINE, THIS PROJECT
 - FUTURE PIPELINE
 - NEW STRUCTURE, THIS PROJECT
 - FUTURE STRUCTURE
 - RESERVOIR COMPLEX BOUNDARY
 - EXISTING MAJOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR



NOTE:
BASE MAP AND RESERVOIR 2 AND 2A DESIGN
BY WEILAND INC. SEE CIVIL DRAWINGS FOR
EXACT LOCATIONS OF STRUCTURES.

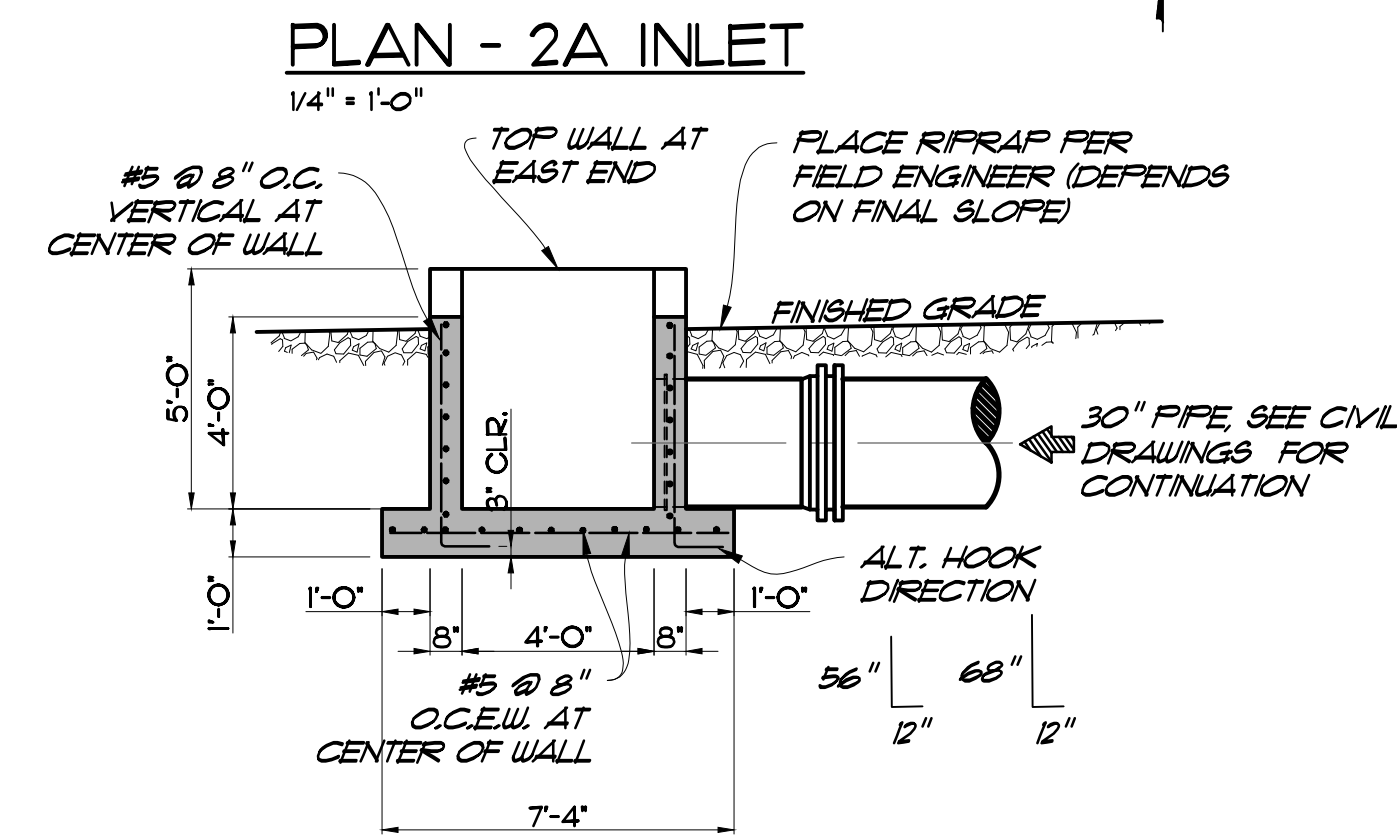
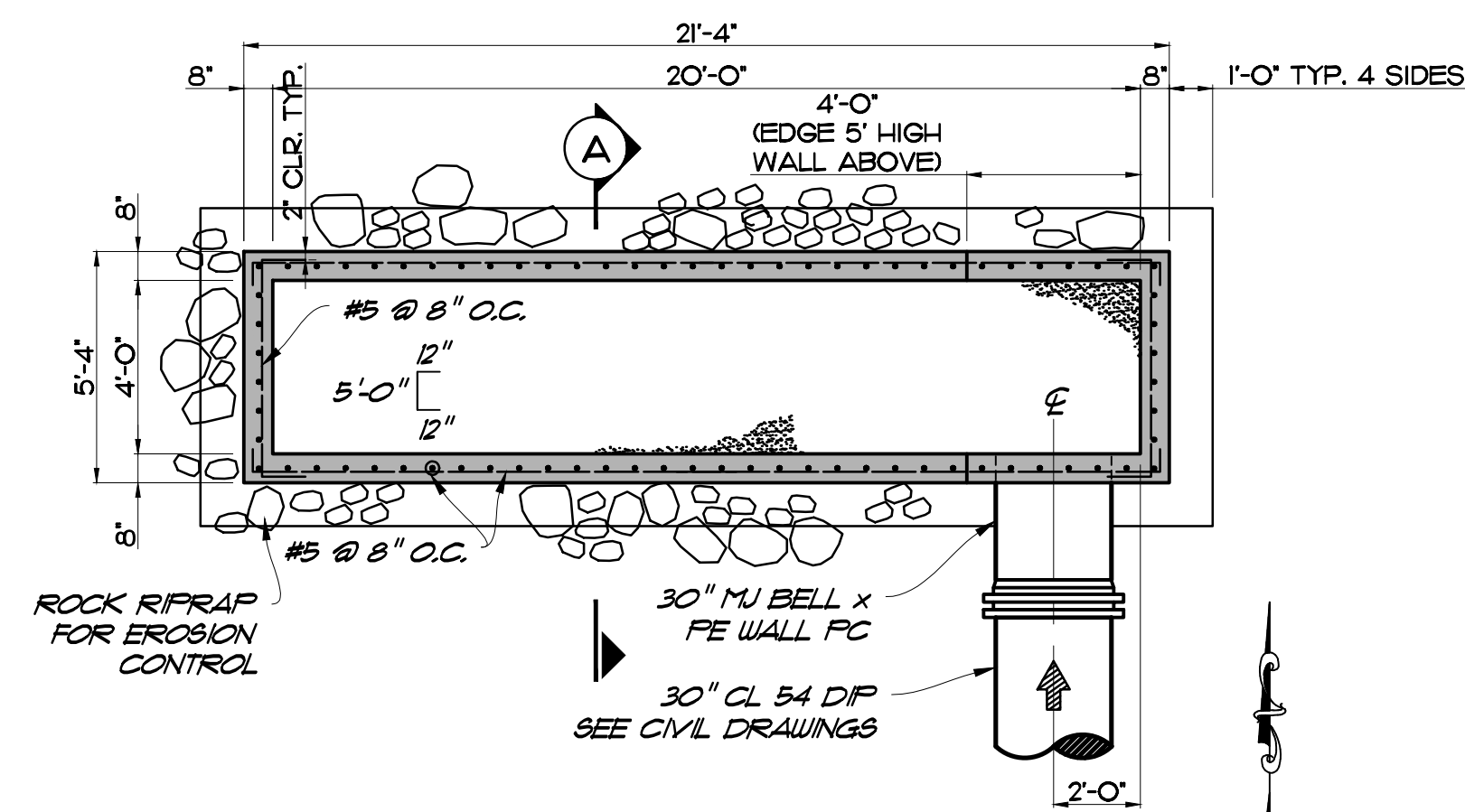
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- NOTES:
1. ADDITIONAL REINFORCING NOT REQUIRED WHEN TYPICAL REINFORCING IS NOT CUT.
 2. CUT TYPICAL REINFORCING TO PROVIDE 2" CLEAR COVER AT EDGE OF OPENING.
 3. IF THE EDGES OF AN OPENING OR PIPE ARE LOCATED WITHIN 2'-6" OF THE EDGE OF A SLAB OR FROM THE TOP OR BOTTOM OF A WALL OR A LOCATION WHERE A 2'-6" PROJECTION IS NOT POSSIBLE, PROVIDE A STD 90 DEG. HOOK AT THE FACE OF THE CONCRETE

TYP. PENETRATION OR OPENING

NTS (DETAIL APPLICABLE FOR ALL CONCRETE WALL PENETRATIONS)



SECTION A

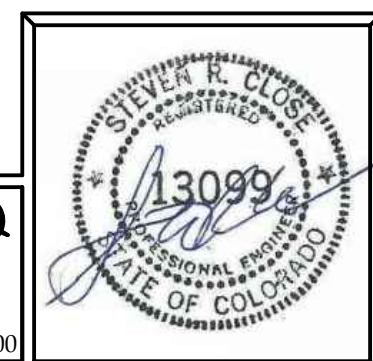
1/4" = 1'-0"

CA NUMBER	 CLOSE ASSOCIATES, LLC. 14405 W. COLFAX SUITE 275 LAKEWOOD, CO. WWW.CLOSEASSOCIATES.NET	
19-10	303-989-9000	

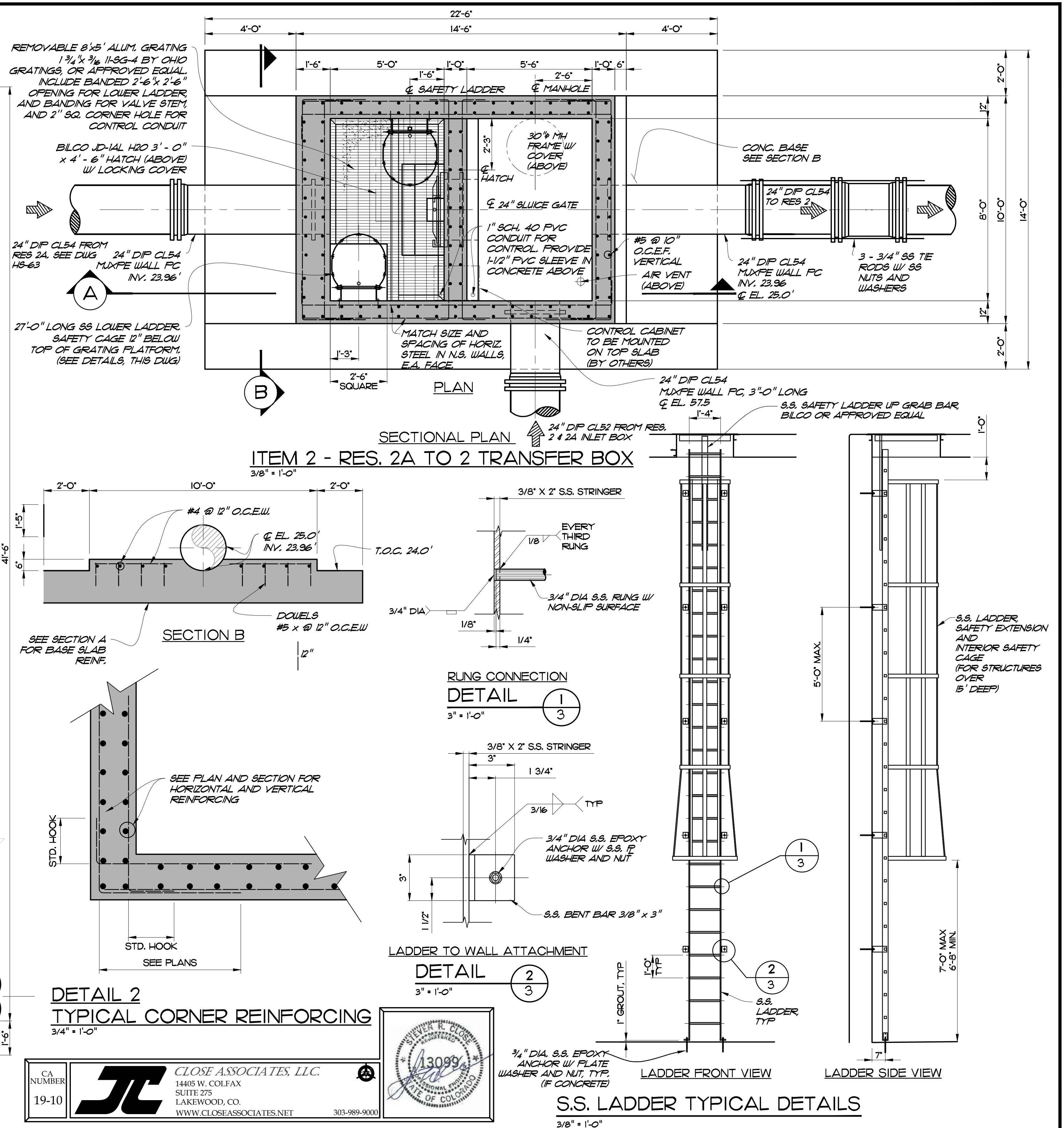


CLOSE ASSOCIATES, LLC.
14405 W. COLFAX
SUITE 275
LAKEWOOD, CO.
WWW.CLOSEASSOCIATES.NET

303-989-900

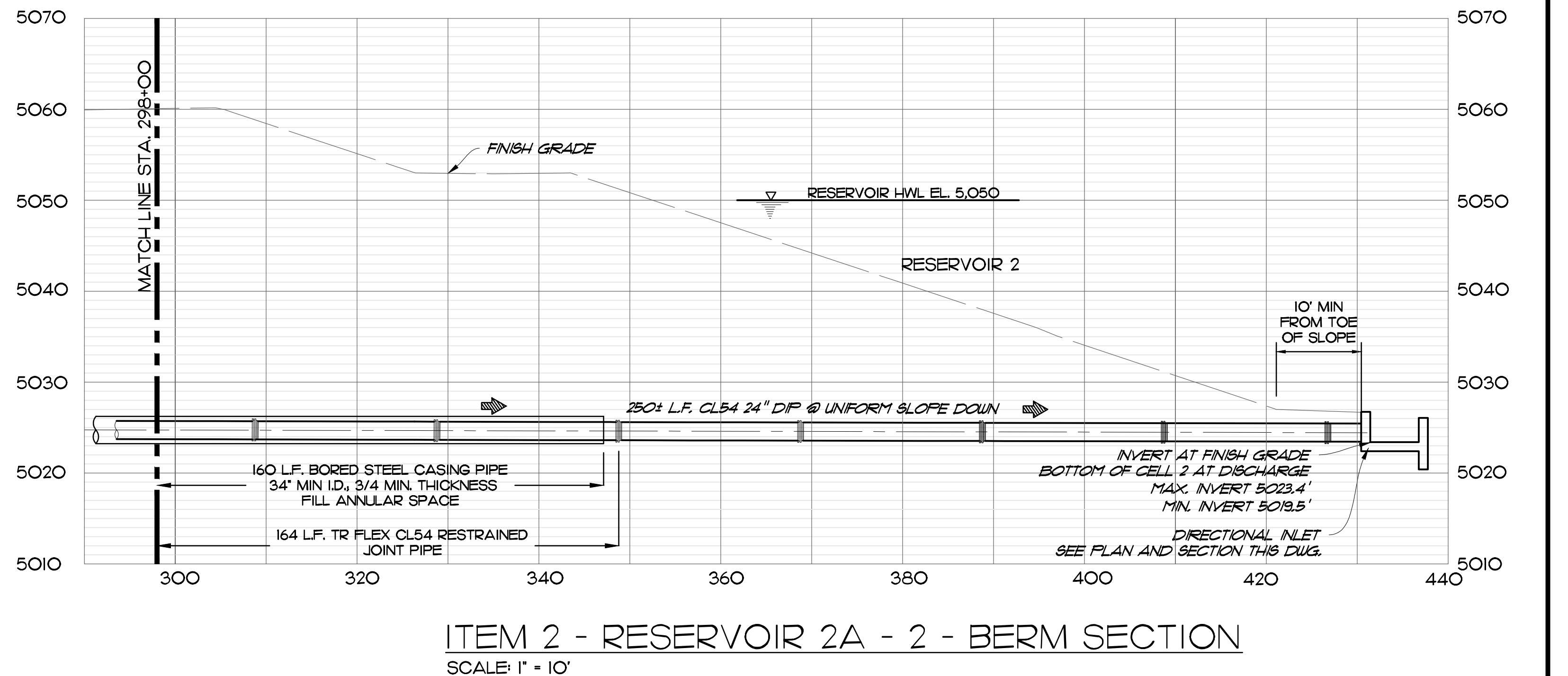
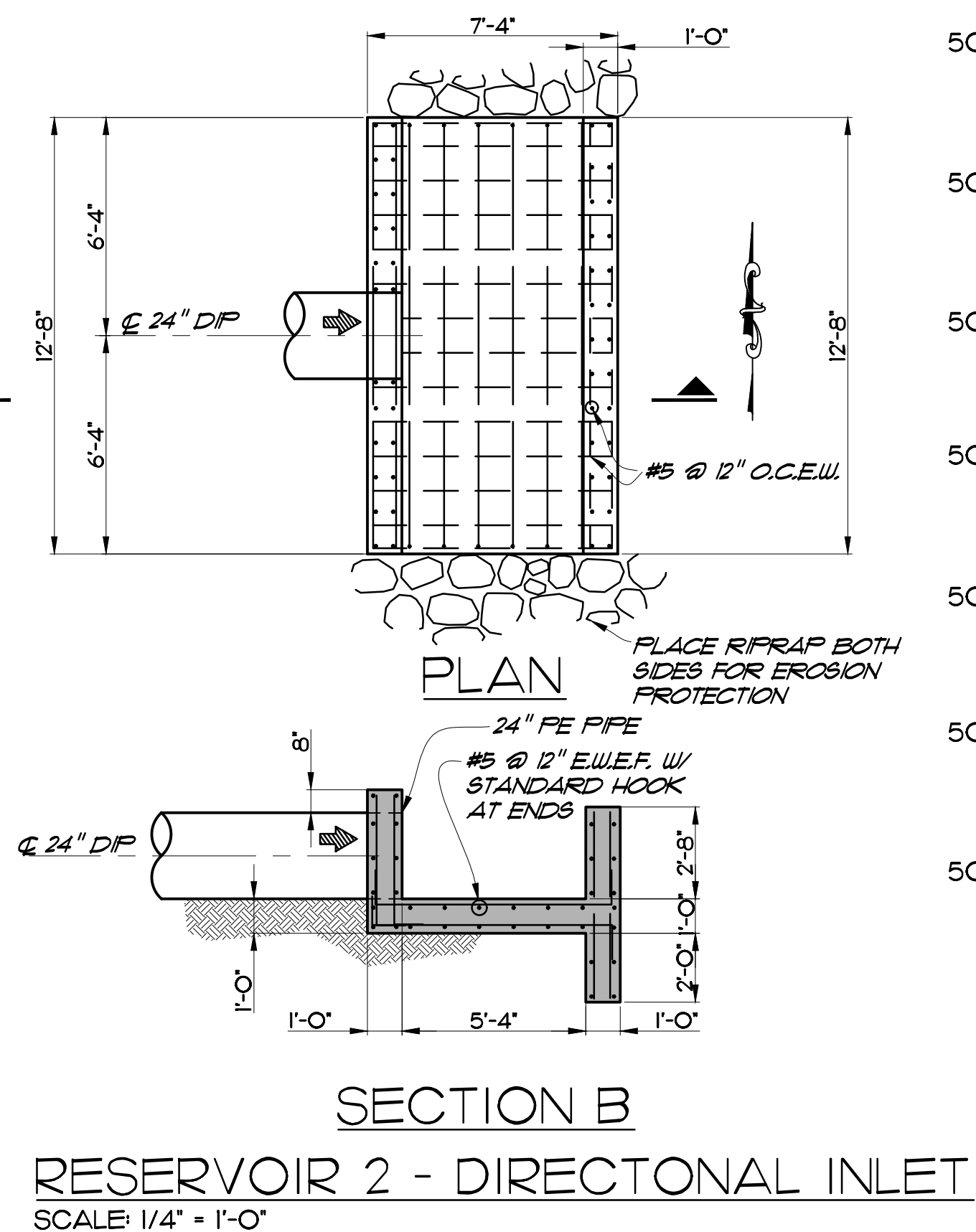
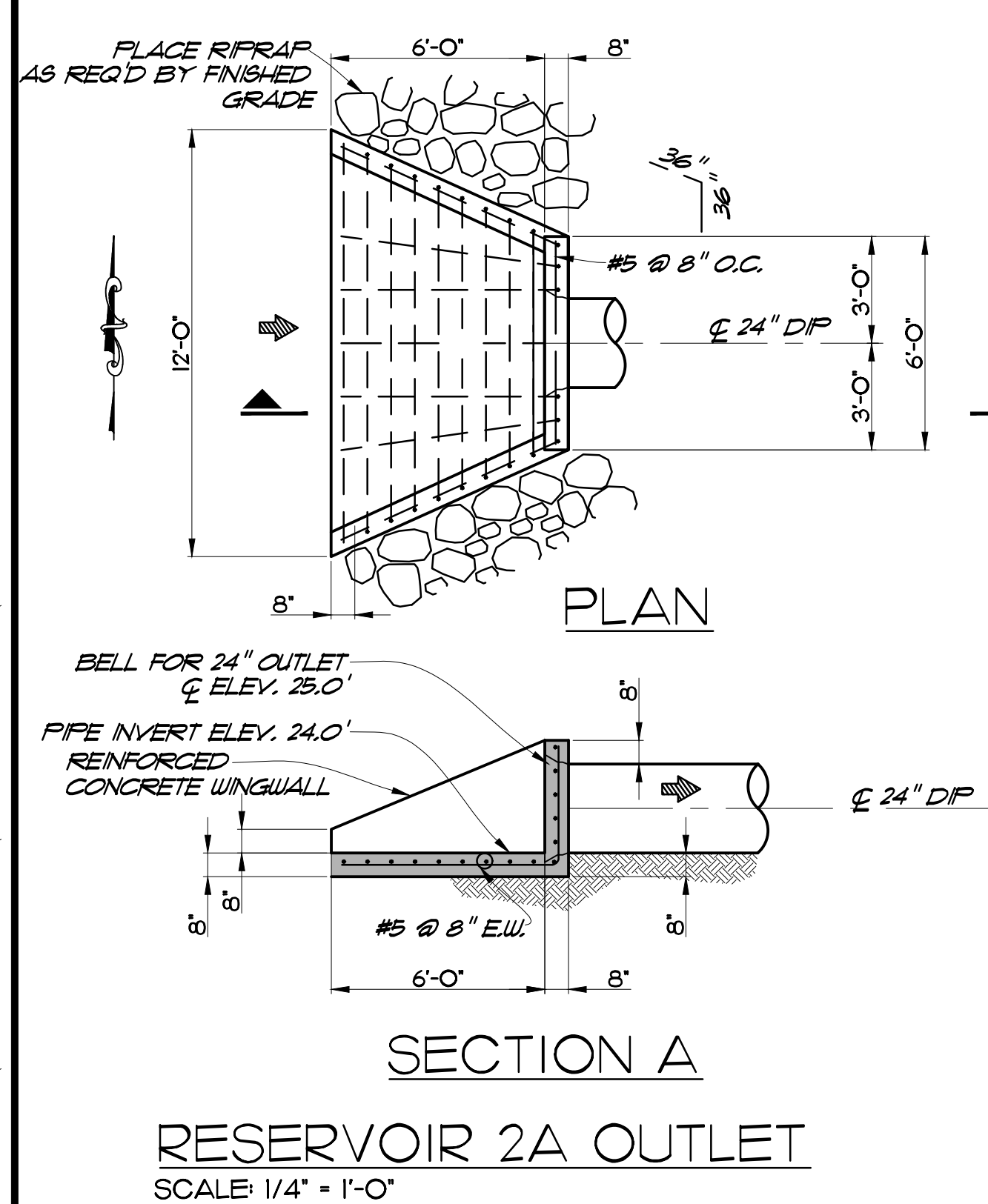
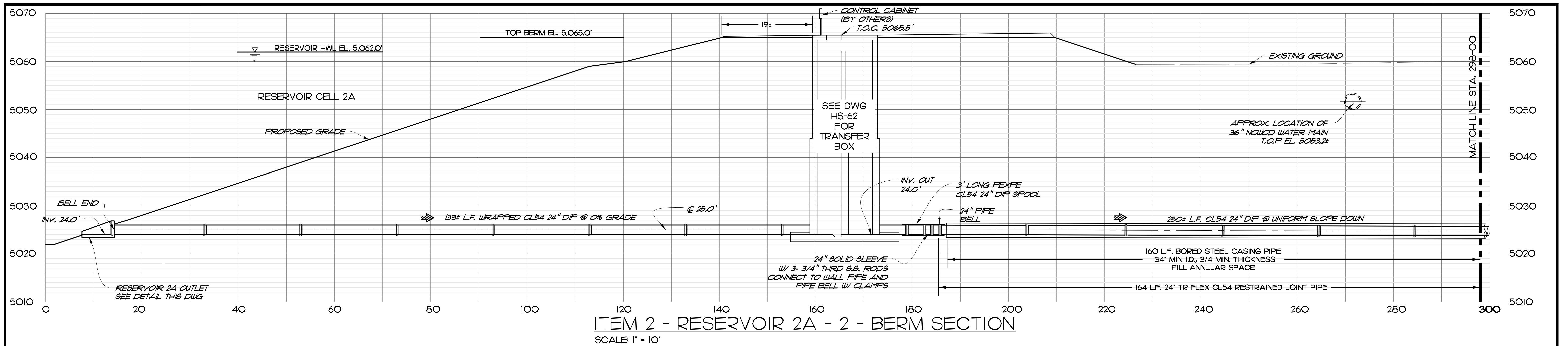


						OWNER/GC		CLIENT							GOOSE HAVEN RESERVOIR ITEM 1—RESERVOIR 2 AND 2A TRANSFER BOX AND RESERVOIR 2A INLET STRUCTURE			SHEET	
						CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO, LLC P.O. BOX 893 BROOMFIELD, CO 80038										HS-61	
						GRAPHIC SCALE									DRAWING NO.				
															26 OF 29				
															REVISION				
															0				
NO.	DATE	REVISIONS				BY	CK		PLOT DATE November 12, 2020	APPROVED	DATE	DESIGNED RCM.MJG	CHECKED RCM.SRC	DRAWN M.JG	CONTRACT 65418295RP	DATE DEC. 2020	JOB # 65418295RP	SCALE VARIES	



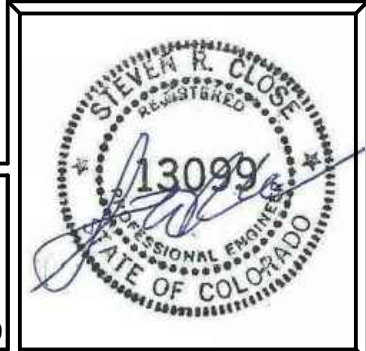
						OWNER/GC		CLIENT							GOOSE HAVEN RESERVOIR ITEM 2 – RESERVOIR 2A TO 2 TRANSFER BOX			SHEET HS-62	
						CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO, LLC P.O. BOX 893 BROOMFIELD, CO 80038										DRAWING NO. 27 OF 29	
						GRAPHIC SCALE												REVISION 0	
NO.	DATE	REVISIONS				BY	CK		PLOT DATE November 12, 2020	APPROVED	DATE	DESIGNED RCM,SRC	CHECKED RCM,SRC	DRAWN MJG	CONTRACT 65418295RP	DATE DEC. 2020	JOB # 65418295RP	SCALE VARIES	

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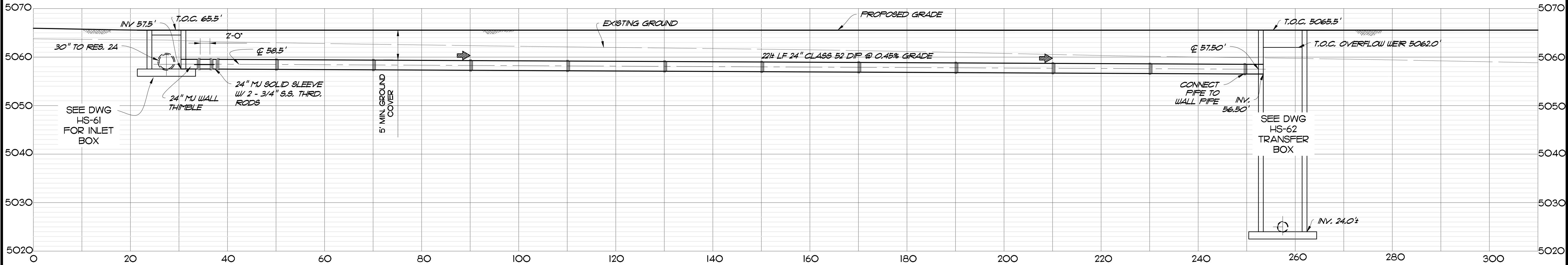
CA
NUMBER
19-10

**CLOSE ASSOCIATES, LLC.**
14405 W. COLFAX
SUITE 275
LAKEWOOD, CO.
WWW.CLOSEASSOCIATES.NET
303-989-9000



						OWNER/GC		CLIENT					GOOSE HAVEN RESERVOIR BERM SECTIONS RES. 2A TO 2 PIPE END DETAILS			SHEET HS-63		
						CITY OF LAFAYETTE		ROCK PRODUCTS OF COLORADO, LLC P.O. BOX 893 BROOMFIELD, CO 80038								DRAWING NO. 28 OF 29		
						GRAPHIC SCALE										REVISION 0		
NO.	DATE	REVISIONS				BY	CK		PLOT DATE November 12, 2020	APPROVED	DATE	DESIGNED RCM, MG	CHECKED RCM, SC	DRAWN MJG	CONTRACT 65418295RP	DATE DEC. 2020	JOB # 65418295RP	SCALE VARIES

T:\PROJECTS\LAFAYETTE 03-14\65418295 GOOSE HAVEN RES APPEARANCES\PDF AND CAD FILES 7-17-14\CELL2A - EXPANSION PROJECT\ITEMS 1 AND 2 - 2A INLET BOX AND 2A TO 2 TRANSFER BOX.DWG Last Saved: 11/12/2020 4:39 PM



RESERVOIR 2A BYPASS
SCALE: 1" = 10'

Goose Haven Reservoir 2A
Merrick Company

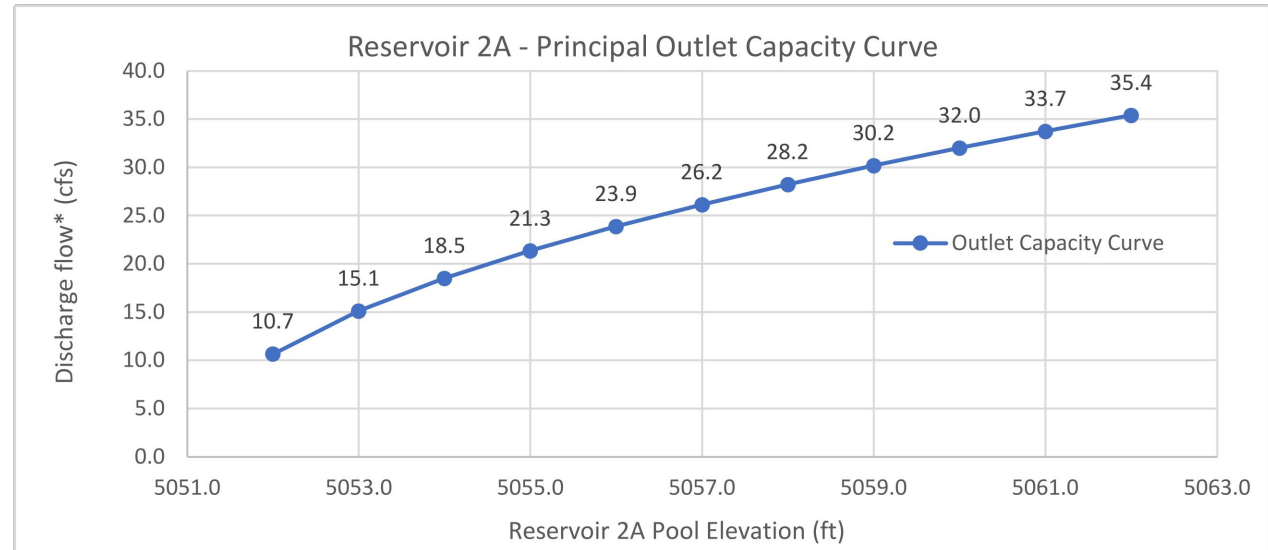
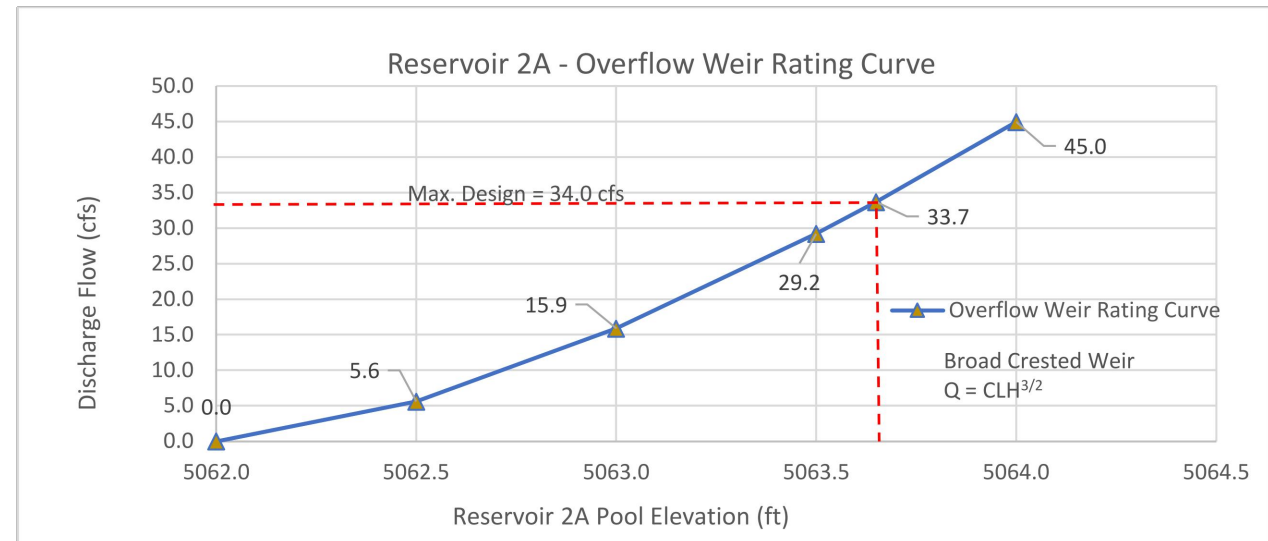
Reservoir 2A Overflow Weir Table

Reservoir No. 2A Pool Elevation (ft)	Discharge (cfs)
5062.0	0.0
5062.5	5.6
5063.0	15.9
5063.5	29.2
5063.7	33.7
5064.0	45.0

Weir Length (L) = 6 ft
Weir Invert = 5062 ft
C coefficient = 2.65

Reservoir 2A Primary Outlet Capacity Table

Reservoir No. 2A Pool Elevation (ft)	Reservoir No.2 Pool Elevation (ft)	Discharge (cfs)
5062.0	5051.0	35.4
5061.0	5051.0	33.7
5060.0	5051.0	32.0
5059.0	5051.0	30.2
5058.0	5051.0	28.2
5057.0	5051.0	26.2
5056.0	5051.0	23.9
5055.0	5051.0	21.3
5054.0	5051.0	18.5
5053.0	5051.0	15.1
5052.0	5051.0	10.7



* Assumes Reservoir 2 Pool level is 1 ft above HWL = 5051.0'

Q:\Denver_North\Projects\8295-03 Rock Products Goose Haven Dam Break\DESIGN\1 Drainage\Dam Break Analysis\Calculations\Overflow and Primary Outlet Capacity Curves

RESERVOIR 2A - OVERFLOW & PRIMARY OUTLET CAPACITY CURVES

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