



J&T Consulting, Inc.

March 29, 2024

Mr. Brock Bowles
Environmental Protection Specialist
State of Colorado
Division of Reclamation, Mining, & Safety
1313 Sherman Street – Room 215
Denver, CO 80203

*RE: Northern Colorado Constructors, Inc. – NCCI Pit #1 – Technical Revision No. 10 Request
File No. M-2001-107*

Dear Mr. Bowles,

Northern Colorado Constructors, Inc. (NCCI) requests a revision to their existing permit to address the following items:

Groundwater Drain Plans: Revision of the existing permit to provide groundwater drain plans prior to construction of the groundwater drain.

This letter will serve as notice to the DRMS that NCCI requests a technical revision to provide information on the groundwater drain plans prior to construction of the groundwater drain.

NCCI appreciates your consideration of this revision request and looks forward to your response.

Please feel free to contact me with any questions or comments.

Sincerely,

A handwritten signature in blue ink that reads 'J.C. York'.

J.C. York, P.E.
J&T Consulting, Inc.

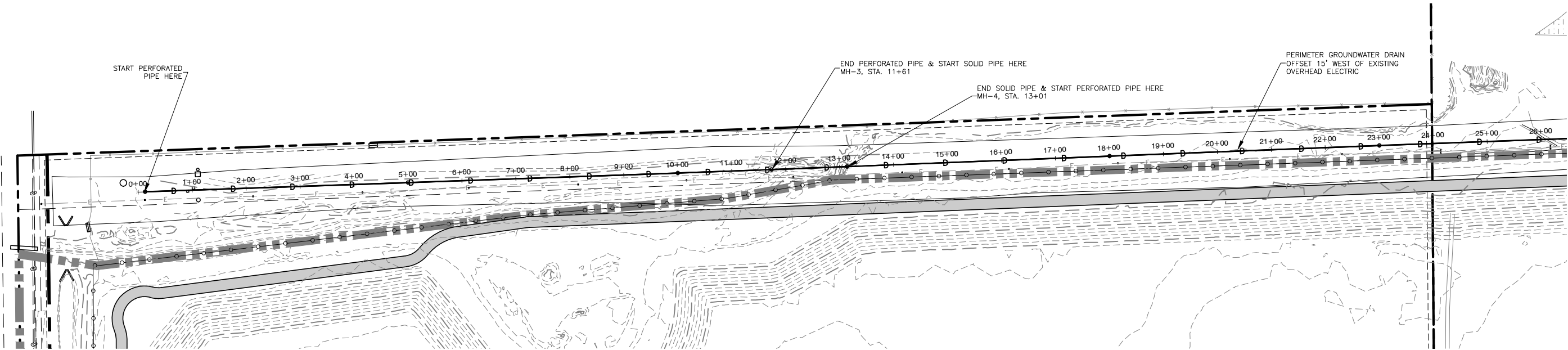
Attachments:

Groundwater Drain Plans

cc: NCCI
File

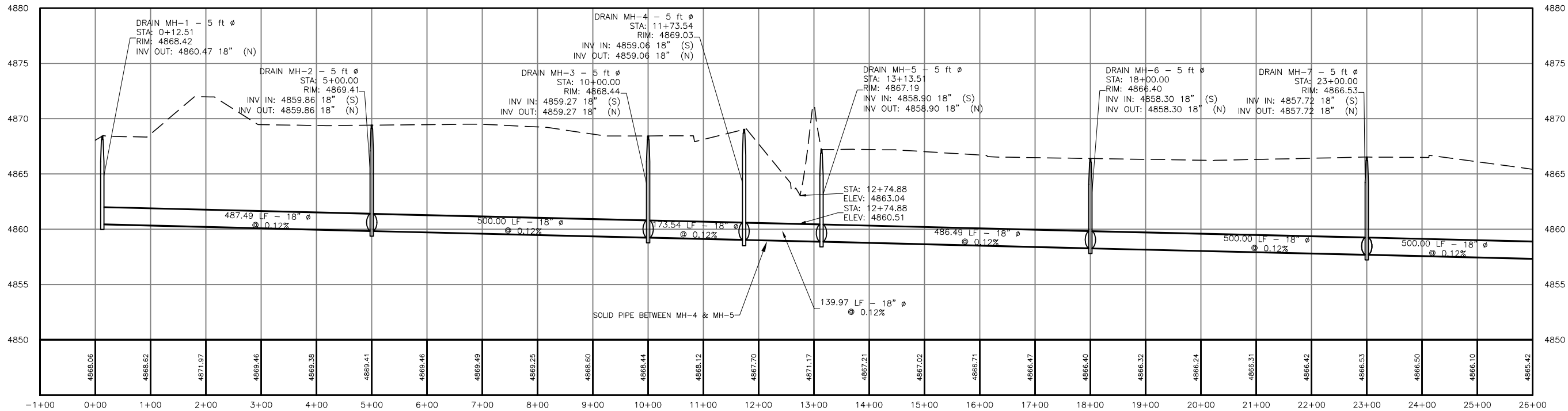
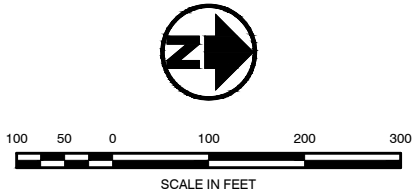


P:\07121 NCCI Liner Design\Drawings\CD's\NCC 2020 updated set - no north reservoir\Draw Layout\JT-NCC Drain Layout\JT-NCC Drain Layout 2024.dwg, 2-P&P, 3/27/2024 10:17:28 AM



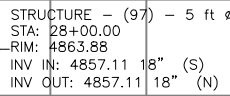
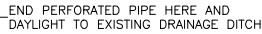
LEGEND:

---	PROPERTY LINE
-E-	UNITED ELECTRIC
-G-	EXISTING GAS
-X-	EXISTING FENCE
-IRR-	EXISTING IRRIGATION PIPE
-4860-	EXISTING CONTOURS
---	PROPOSED GRAVEL ACCESS ROAD
-O-	PROPOSED FENCE
-D-	PROPOSED GROUNDWATER DRAIN



REVISIONS				Description
No	Date	By	Chk	

Job #	07121
Date	3.27.24
Drawn By	TWT
Designed By	TWT
Checked By	JCY
File	JT-NCC Drain Layout
Scale	1" = 100'h / 5'v



STA: 30+79.52
ELEV: 4856.55

	PROPERTY LINE
	UNITED ELECTRIC
	EXISTING GAS
	EXISTING FENCE
	EXISTING IRRIGATION PIPE
	EXISTING CONTOURS
	PROPOSED GRAVEL ACCESS ROAD
	PROPOSED FENCE
	PROPOSED GROUNDWATER DRAIN



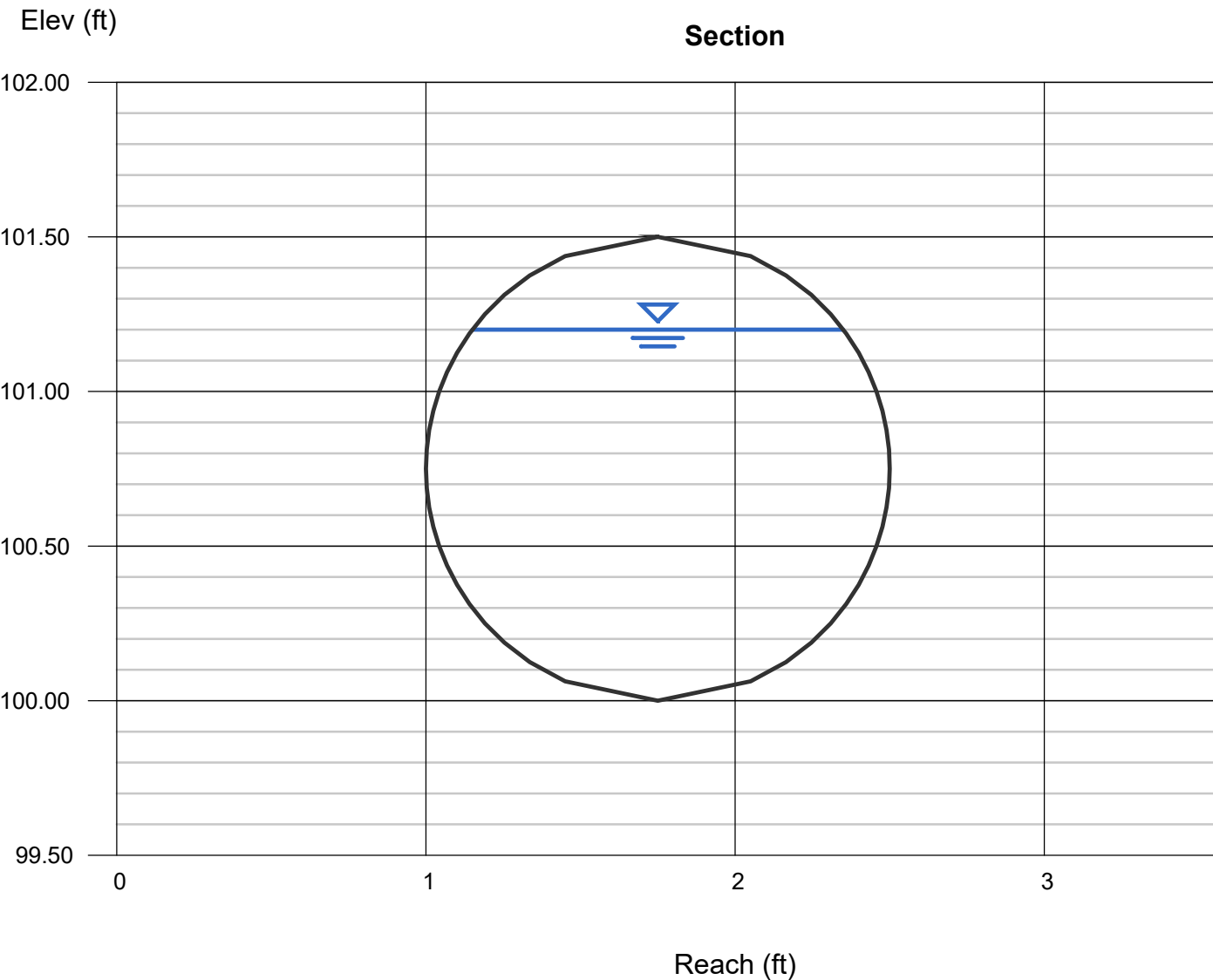
Job #	07121
Date	3.27.24
Drawn By	TWT
Designed By	TWT
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File	JT-NCC Drain Layout
Scale	1" = 100'h / 5'v

Sheet: **3** Of: **3**

Channel Report

NCC Pit #1 - Groundwater Drain

Circular		Highlighted	
Diameter (ft)	= 1.50	Depth (ft)	= 1.20
		Q (cfs)	= 3.854
		Area (sqft)	= 1.52
Invert Elev (ft)	= 100.00	Velocity (ft/s)	= 2.54
Slope (%)	= 0.12	Wetted Perim (ft)	= 3.32
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.75
		Top Width (ft)	= 1.20
		EGL (ft)	= 1.30
Calculations			
Compute by:	Q vs Depth		
No. Increments	= 10		



Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
1	Pipe - (68)	4.82	18	Cir	279.520	4856.61	4857.11	0.180	4857.45	4858.59	0.02	4858.61	End	Manhole
2	Pipe - (67)	3.96	18	Cir	500.000	4857.11	4857.72	0.121	4858.61	4859.17	0.01	4859.18	1	Manhole
3	Pipe - (66)	3.87	18	Cir	500.000	4857.72	4858.30	0.116	4859.18	4859.68	0.01	4859.69	2	Manhole
4	Pipe - (65)	4.01	18	Cir	486.492	4858.30	4858.90	0.124	4859.69	4860.22	0.01	4860.23	3	Manhole
5	Pipe - (64)	3.87	18	Cir	139.967	4858.90	4859.06	0.116	4860.23	4860.38	0.01	4860.39	4	Manhole
6	Pipe - (63)	3.88	18	Cir	173.541	4859.06	4859.27	0.116	4860.39	4860.57	0.01	4860.58	5	Manhole
7	Pipe - (62)	3.93	18	Cir	500.000	4859.27	4859.86	0.120	4860.58	4861.13	0.01	4861.15	6	Manhole
8	Pipe - (61)	4.03	18	Cir	487.492	4859.86	4860.47	0.125	4861.15	4861.72	0.10	4861.82	7	Manhole
Project File: NCC Pit #1 - Groundwater Drain 2024.03.28.stm									Number of lines: 8				Run Date: 3/29/2024	
NOTES: Known Qs only														

Storm Sewer Profile

