

WASTEWATER TREATMENT IMPROVEMENTS WESSINGTON SPRINGS, SOUTH DAKOTA

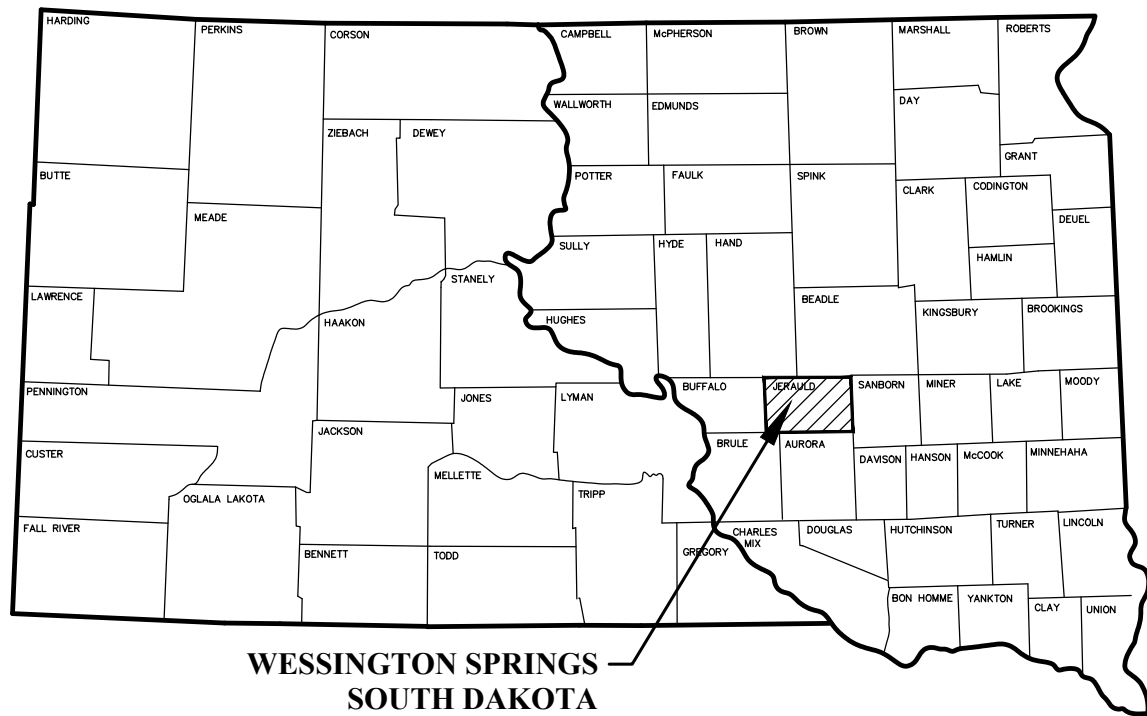
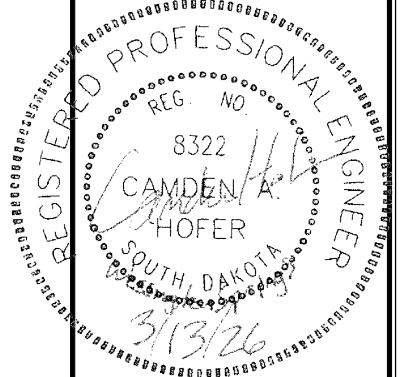
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

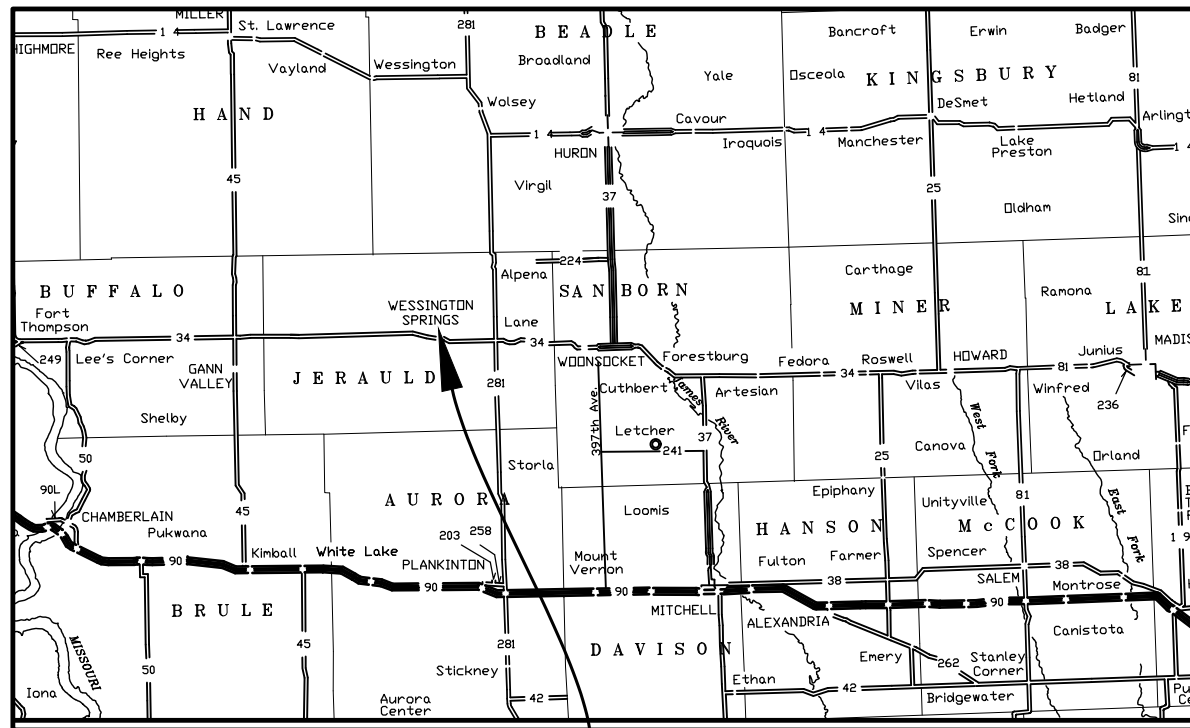
Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



WESSINGTON SPRINGS
SOUTH DAKOTA

LOCATION MAP



PROJECT LOCATION

VICINITY MAP

LEGEND

- | | | | |
|--|-----------------------------------|--|---|
| | = Existing Fire Hydrant | | = Existing Underground Fiber Optic Line |
| | = Existing Water Valve | | = Existing Water Line |
| | = Existing Curb Stop | | = Existing Sanitary Sewer Line |
| | = Curb Stop (Unknown Location) | | = Existing Storm Sewer Culvert |
| | = Existing Sanitary Sewer Manhole | | = Existing Overhead Electric |
| | = Existing Storm Inlet | | = Existing Underground Electric Line |
| | = Existing Telephone Pedestal | | = Existing Fence |
| | = Existing Sign | | = Proposed Sanitary Manhole |
| | = Existing Tree | | = Proposed Sanitary Connection |
| | = Existing Mailbox | | = Proposed Sanitary Sewer |
| | = Existing Power Pole/Light Pole | | = Erosion Control Wattle |
| | = Existing Flag Pole | | |

CITY OFFICIALS

Mayor	Brian Bergeleen
Finance Officer	Linda Willman
Council Member	Kari Fagerhaug
Council Member	Pat Fastnacht
Council Member	Vicki Harmdierks
Council Member	Ryan Knipfer
Council Member	Layton Schimke
Council Member	Tim Schooler
Sewer Superintendent	Rob Wenzel
Water Superintendent	Rob Wenzel
Electric Superintendent	Phil LaBore

INDEX OF SHEETS

1	Cover Sheet
2	Project Location
3	General Notes
4-6	Cell 1, 2 and 3 Improvements
7	Sanitary Plan & Profile
8	Sanitary Details
9-11	North Ditch Plan & Profiles
12-13	North Ditch Cross Sections
14-16	South Ditch Plan & Profiles
17-18	South Ditch Cross Sections
19-25	Cell 1 Plan & Profiles
26	Typical Section
27-32	Cell 1 Cross Sections
33	Pond Details
34	Lift Station Details
35	Gate Details
36	Erosion Control
37-39	SWPPP

Project Name:
**Wastewater
Treatment
Improvements**

Located in:
**Wessington
Springs,
South Dakota**

Sheet Name:
**Cover
Sheet**

Sheet Number:	Total Sheets:
1	39



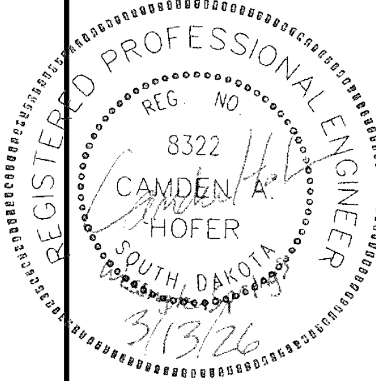
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 1,000'
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
**Wastewater
Treatment
Improvements**

Located in:
**Wessington
Springs,
South Dakota**

Sheet Name:
**Project
Location**

Sheet Number:	Total Sheets:
2	39

UTILITIES - GENERAL

Underground utilities are based on field locations as marked by the utility companies' locators. Utility lines were created from those markings, conversations with the utility locate people, and/or existing utility maps. Utility locations should be verified in the field before construction.

Portions of the improvements are located near existing electric, telephone, and other utility lines. It is the responsibility of the Contractor to coordinate this work with the owners of the respective utilities.

The removal and proper disposal of the existing sewer main pipe shall be considered incidental work.

STORM WATER MANAGEMENT

Refer to the requirements in Section 1 35 13.

PROJECT CLEAN-UP AND SAFETY

The Contractor shall be responsible for and shall take all precautions necessary to avoid property damage to adjacent properties during construction activities. The Contractor shall clean trackout from adjacent roads.

The Contractor is solely responsible for job site conditions including safety of all persons and property during the performance of the work.

WATER FOR COMPACTION

The City will provide water to the Contractor for compaction and flushing at no cost. The Contractor shall record water usage on a daily log and provide water usage information to the City upon their request.

STAGING

The Contractor is responsible for locating a staging site and for keeping this staging area clean and restoring it to its original condition.

SCHEDULING

The anticipated project schedule shall be submitted to the engineer as soon as possible to coordinate the discharge of wastewater from the facility. The Contractor shall note that the Owner' operational schedule of the facility cannot be guaranteed and is based on many factors such as weather conditions, treatment efficiency and discharge limitations. The Owner will attempt to discharge and move wastewater in a timely manner to meet the Contractor's schedule. Assume the Owner will remove water from ponds to three feet in remaining depth. Moving water below three feet is the responsibility of the Contractor at no additional cost to the Owner.

BORROW SITE

Note the location on the previous sheet for the borrow material and the diposal for unsuitable material.

REPAIR OF CLAY LINER

In the event of damage to the existing clay liner in one of the cells, the Contractor shall repair the clay liner as specified in Section 31 23 16 and 23, Paragraph 3.08.

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Revisions

08/08/26 Added Liner Repair
By SJA.

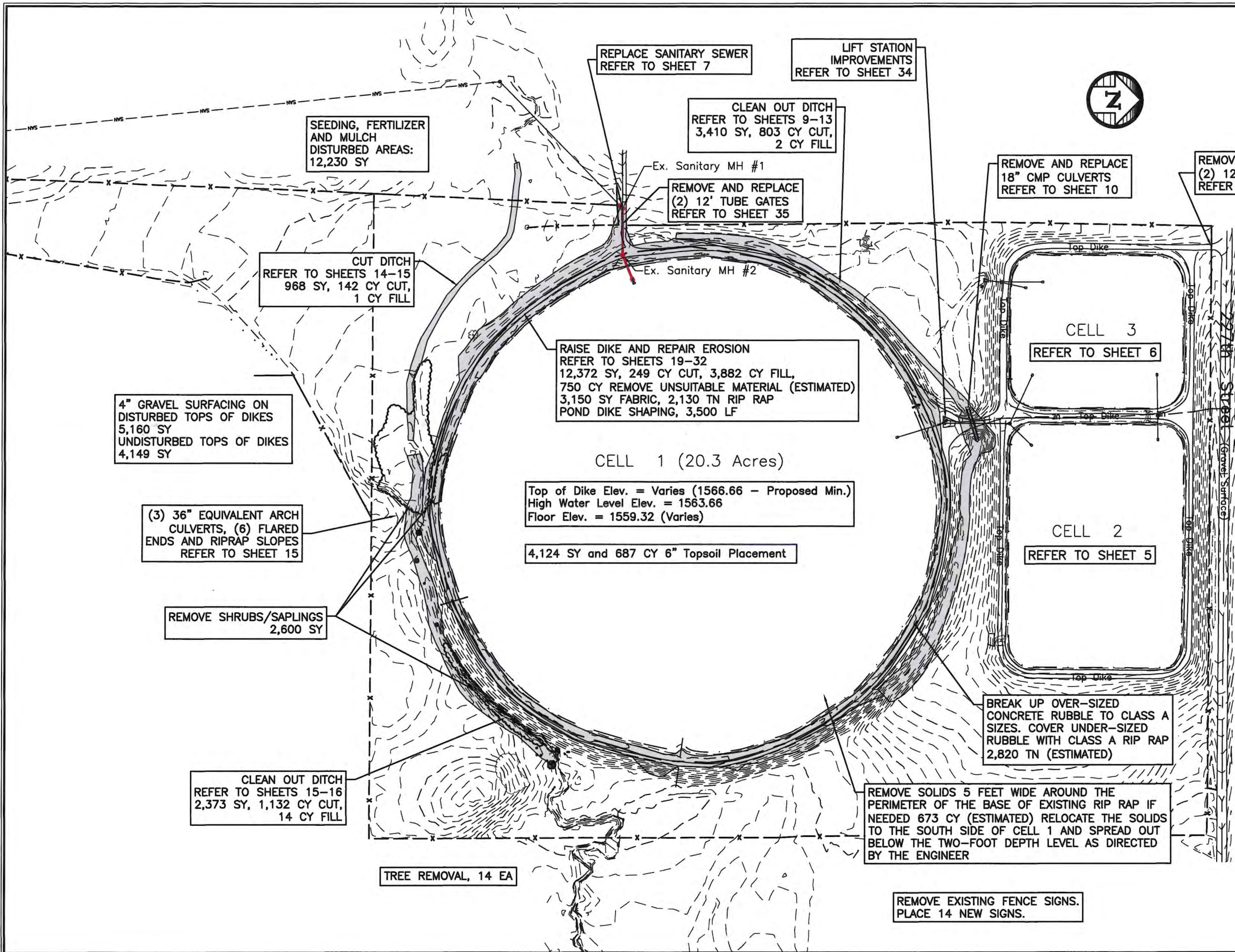
Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWI

Project Name:
Wastewater
Treatment
Improvements

Located in:
Wessington
Springs,
South Dakota

Sheet Name:
General
Notes

Sheet Number:	Total Sheets:
3	39



Engineers - Planners - Surveyors
2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Revisions

08/26/26 Edit Sludge Removal Note By SJA.

Plan Horiz. Scale:	1" = 200'
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWTP

Project Name:
Wastewater Treatment Improvements
Located in:
Wessington Springs, South Dakota

Sheet Name:
Cell 1 Plan View

Sheet Number:	Total Sheets:
4	39

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 60'
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

Wastewater
Treatment
Improvements

Located in:

Wessington
Springs,
South Dakota

Sheet Name:

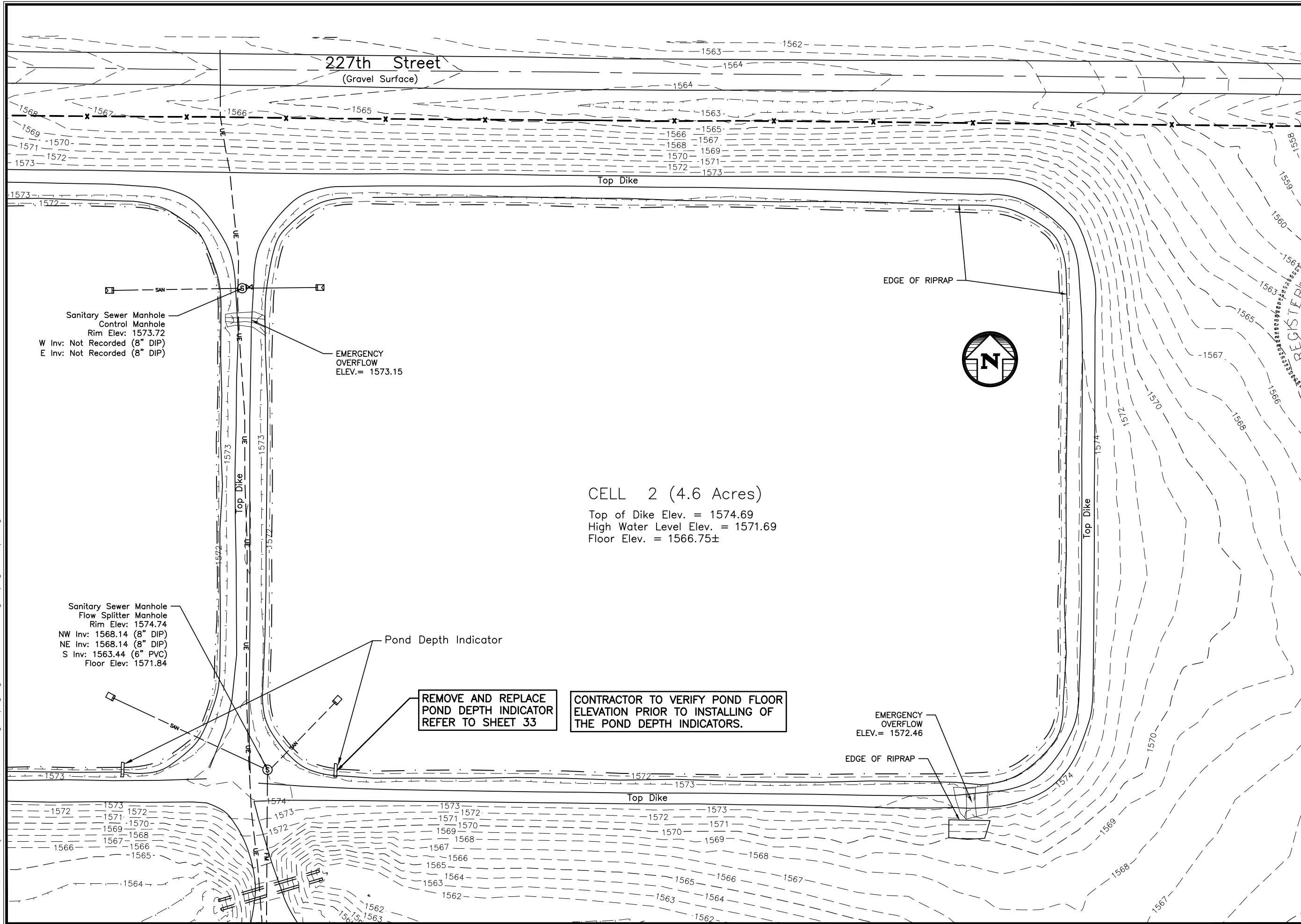
Cell 2
Plan View

Sheet Number:

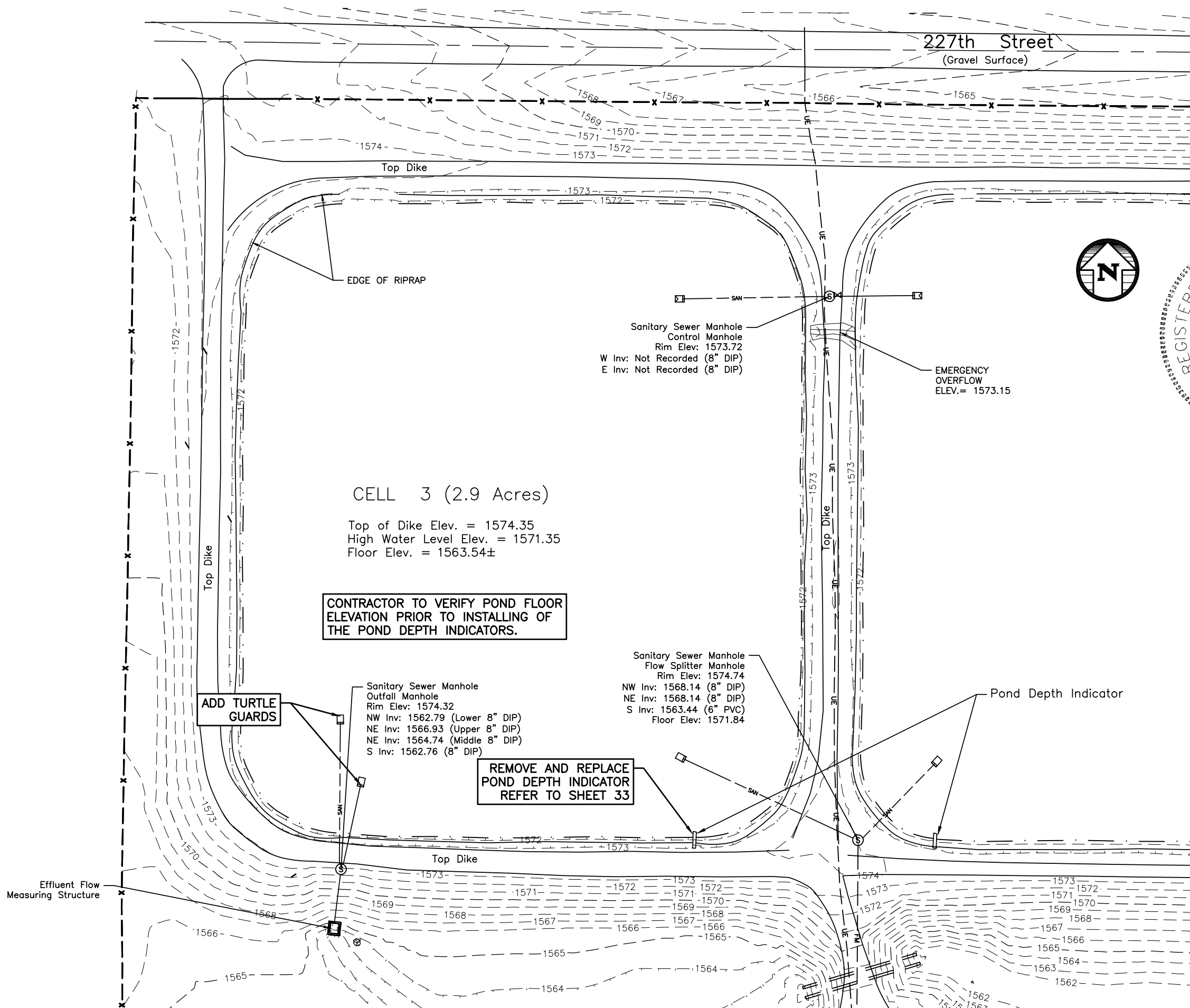
5

Total Sheets:

39



G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Cell 3 Plan 11x17, 3/19/2026 1:16:28 PM



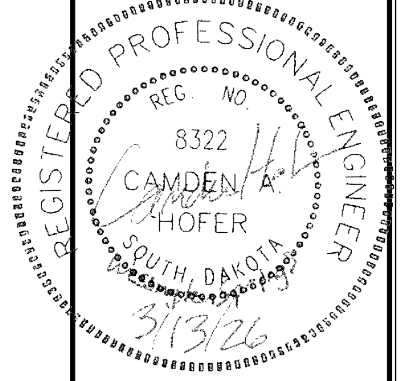
SPN & Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



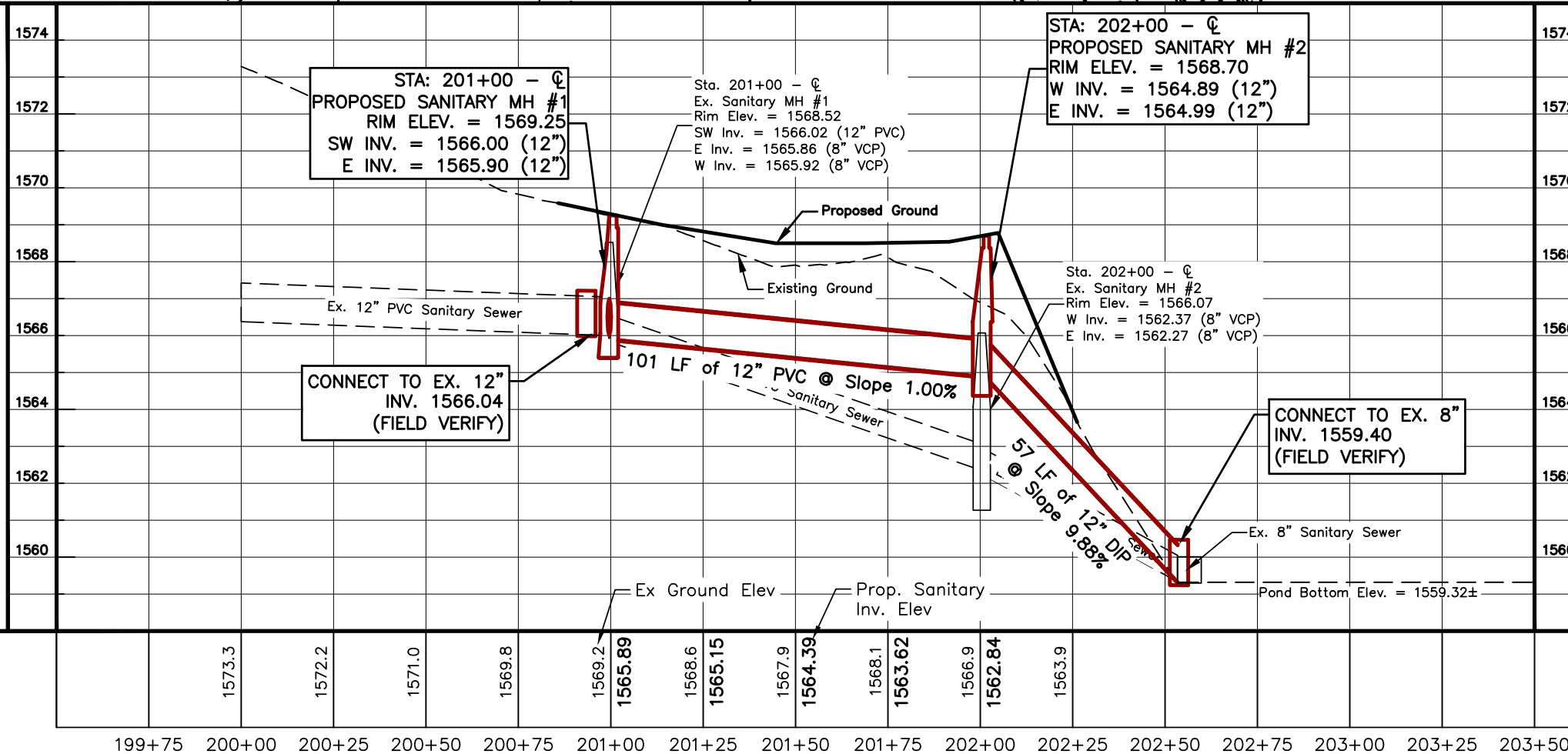
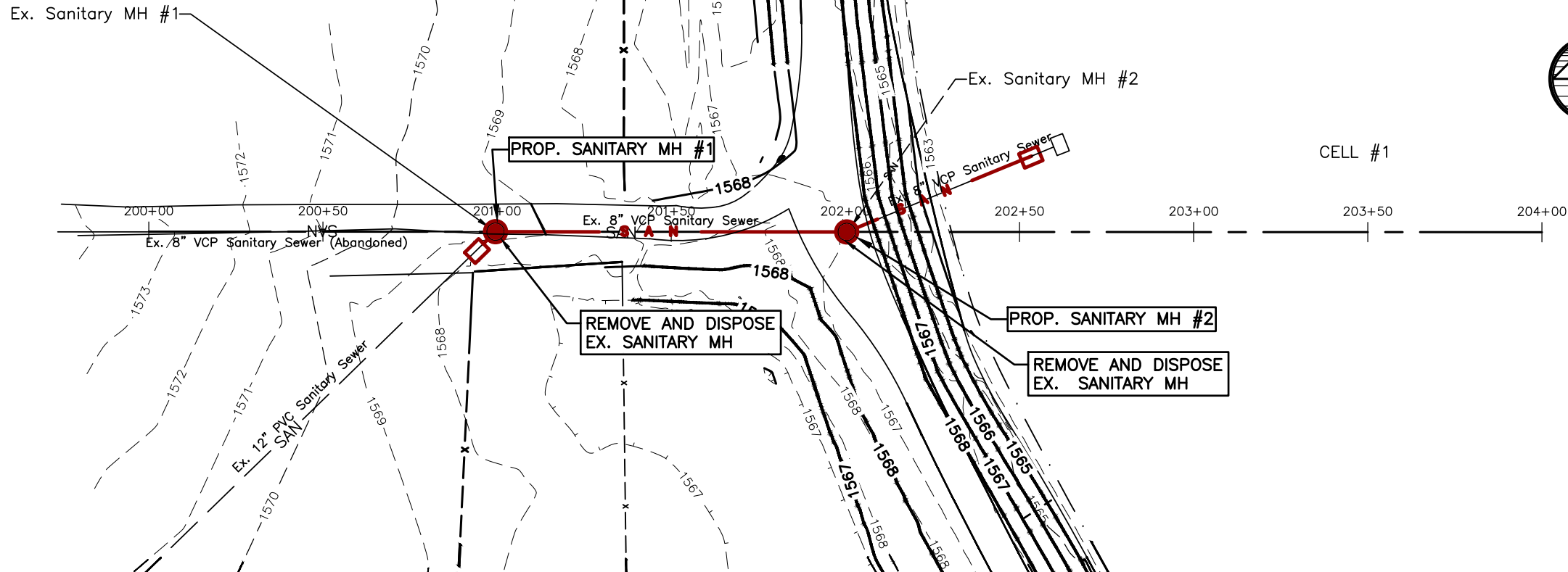
Plan Horiz. Scale:	1" = 60'
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
Wastewater Treatment Improvements
Located in:
Wessington Springs, South Dakota

Sheet Name:
Cell 3 Plan View

Sheet Number:	Total Sheets:
6	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs WWT Improv.dwg, Sanitary Manholes Plan and Profile 11x17, 3/19/2026 1:16:33 PM



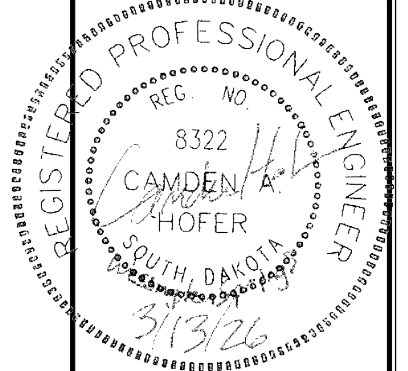
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

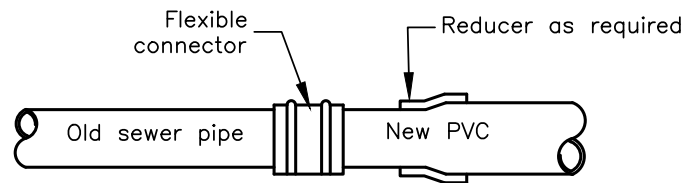
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

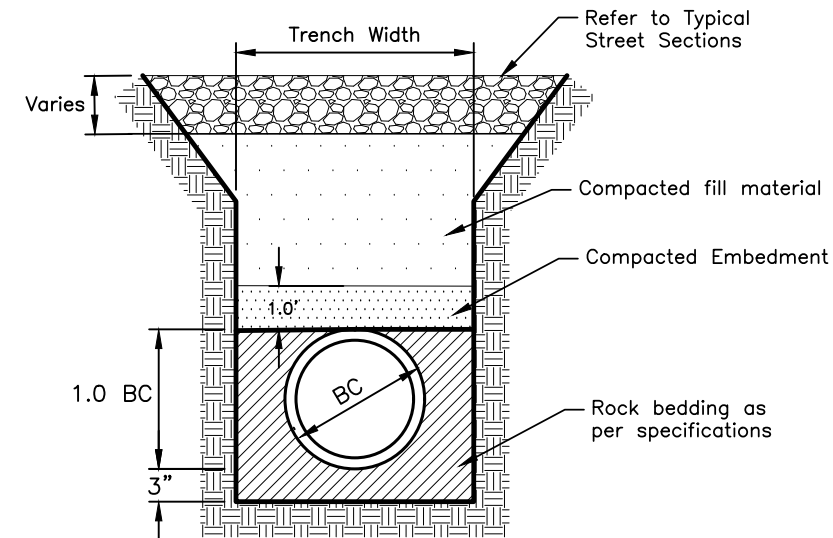
Sheet Name:
West Side of Cell #1 San. Plan & Profile

Sheet Number:	Total Sheets:
7	39

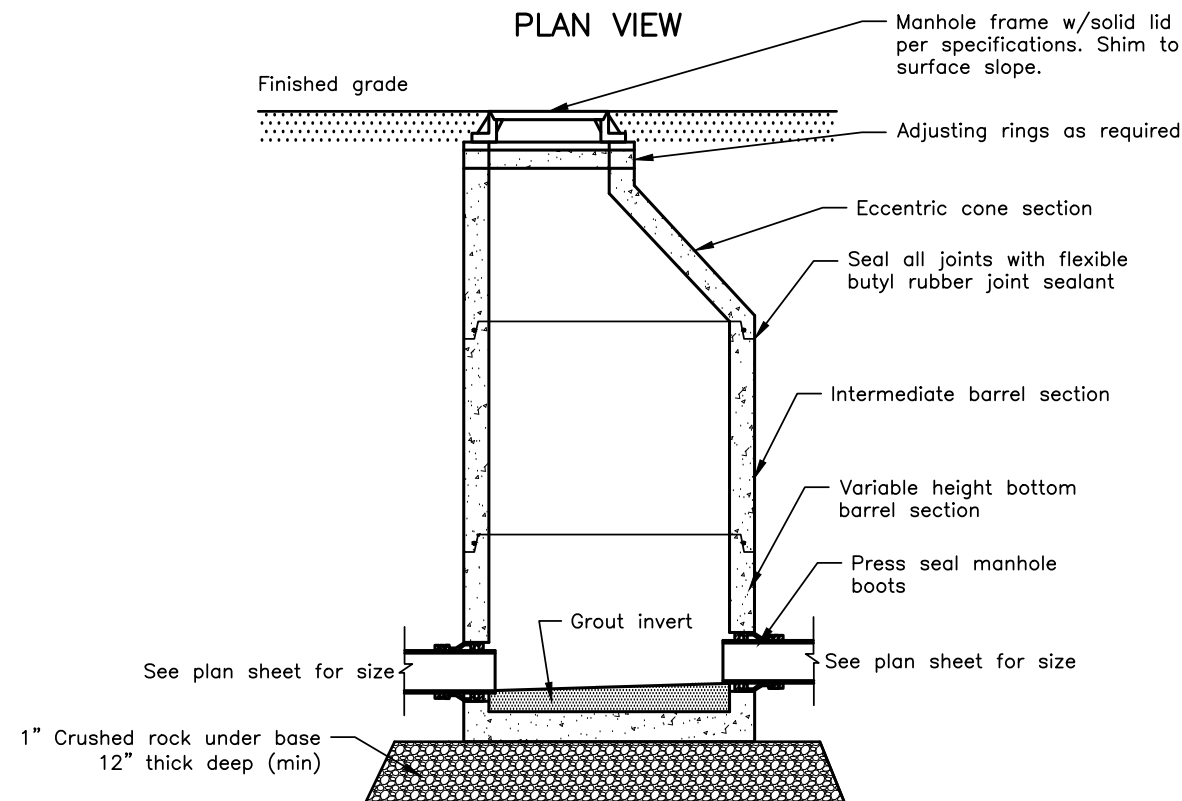
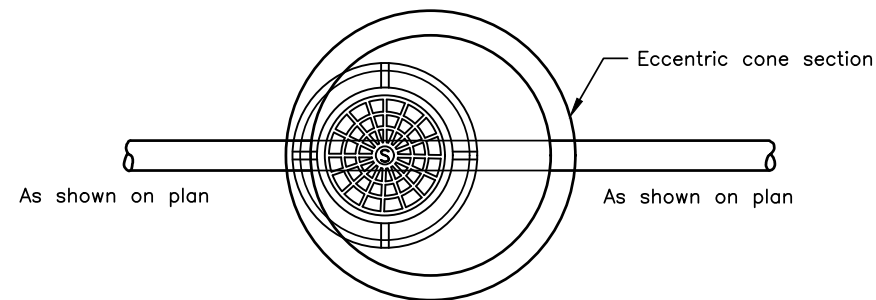
G:\Files\CAD\Land Project R2 (job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Cover & Details.dwg, Sanitary Details, 3/19/2026 1:16:36 PM



CONNECTION OF EXISTING TO NEW SANITARY SEWER
SCALE: NONE



BEDDING DETAIL (PVC PIPE)
SCALE: NONE



SECTION
TYPICAL SANITARY MANHOLE DETAIL
SCALE: NONE

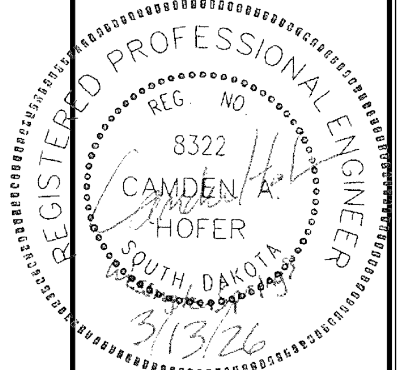
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

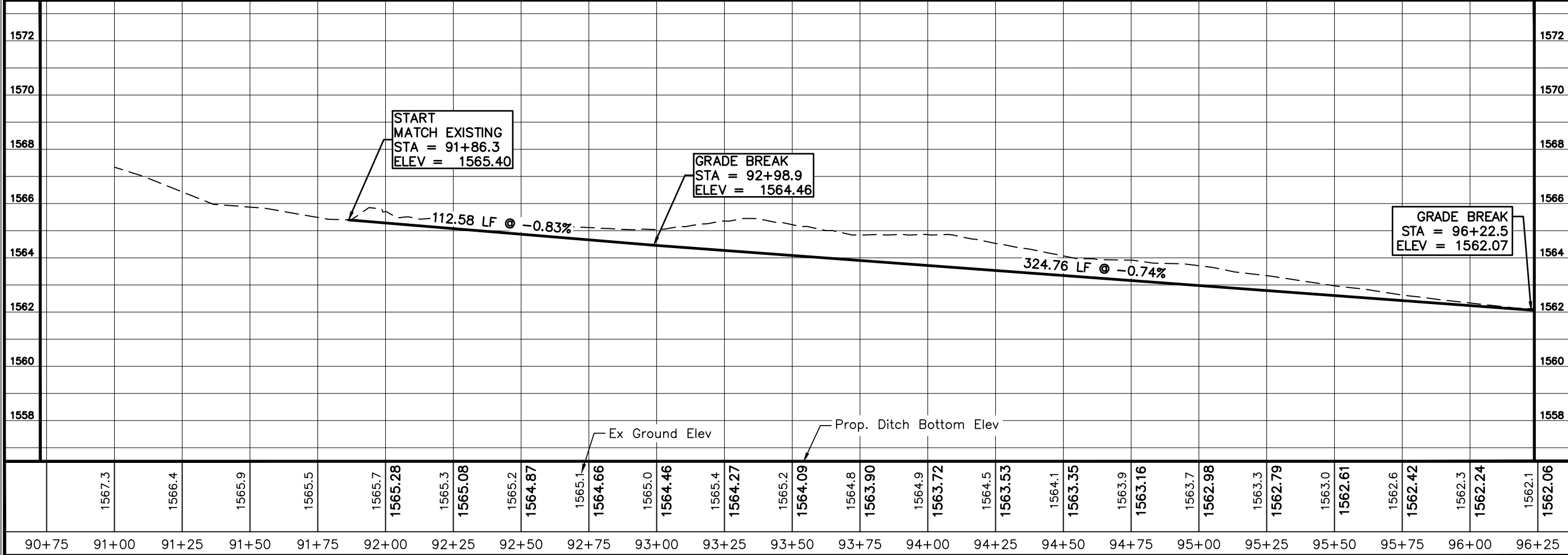
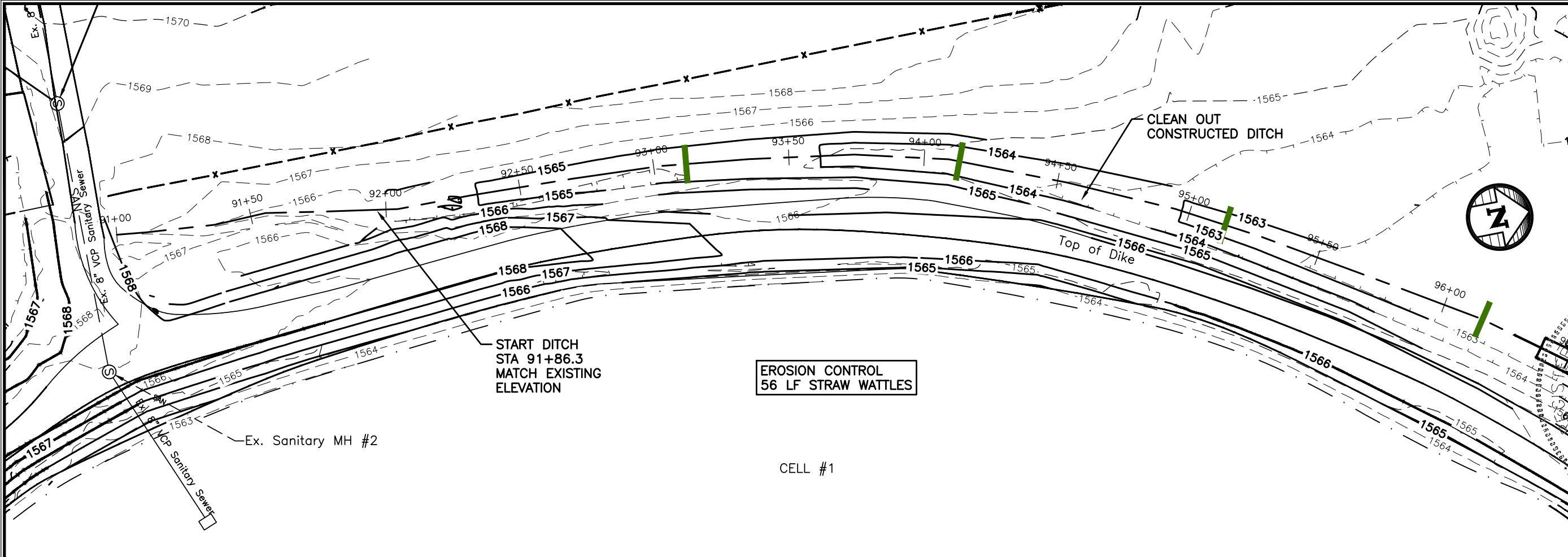
Project Name:
**Wastewater
Treatment
Improvements**

Located in:
**Wessington
Springs,
South Dakota**

Sheet Name:
**Sanitary
Details**

Sheet Number:	Total Sheets:
8	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs WWTP Improv.dwg, North Ditch Plan and Profile 11x17, 3/19/2026 1:16:41 PM



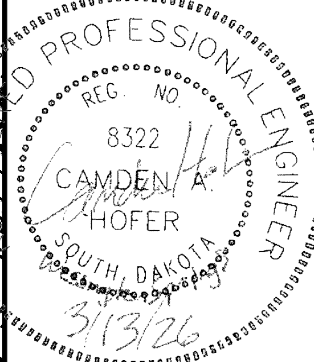
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWTP

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

**North Ditch
Plan & Profile**

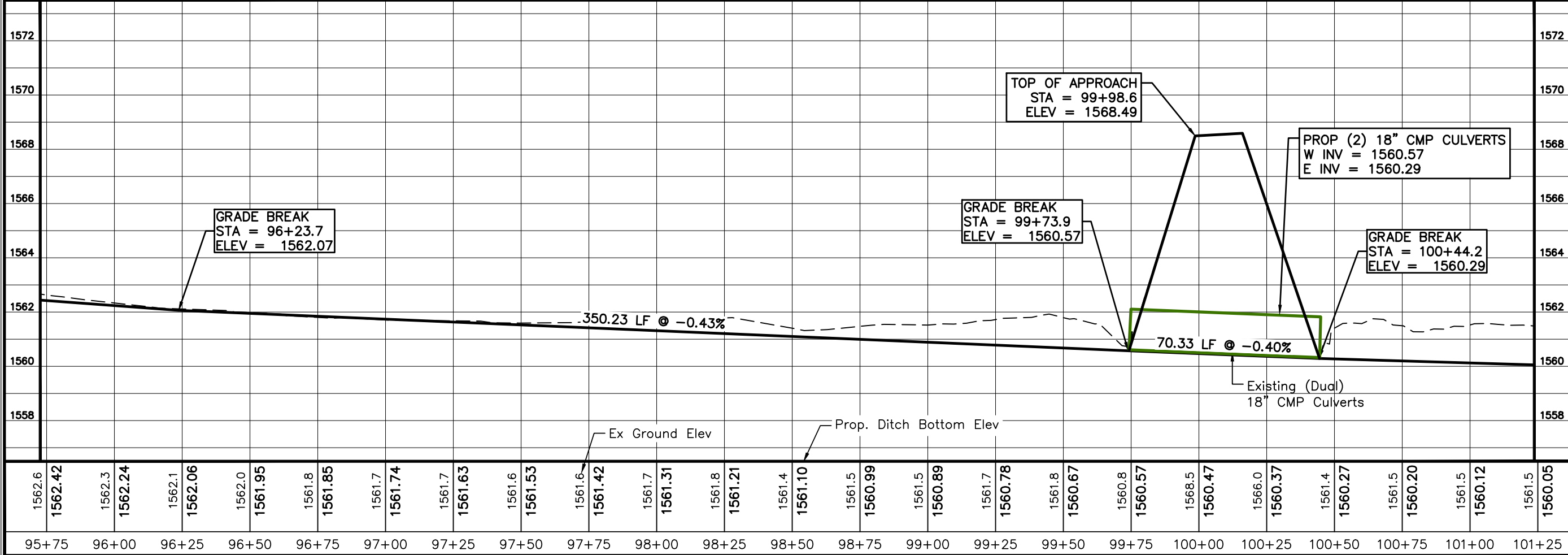
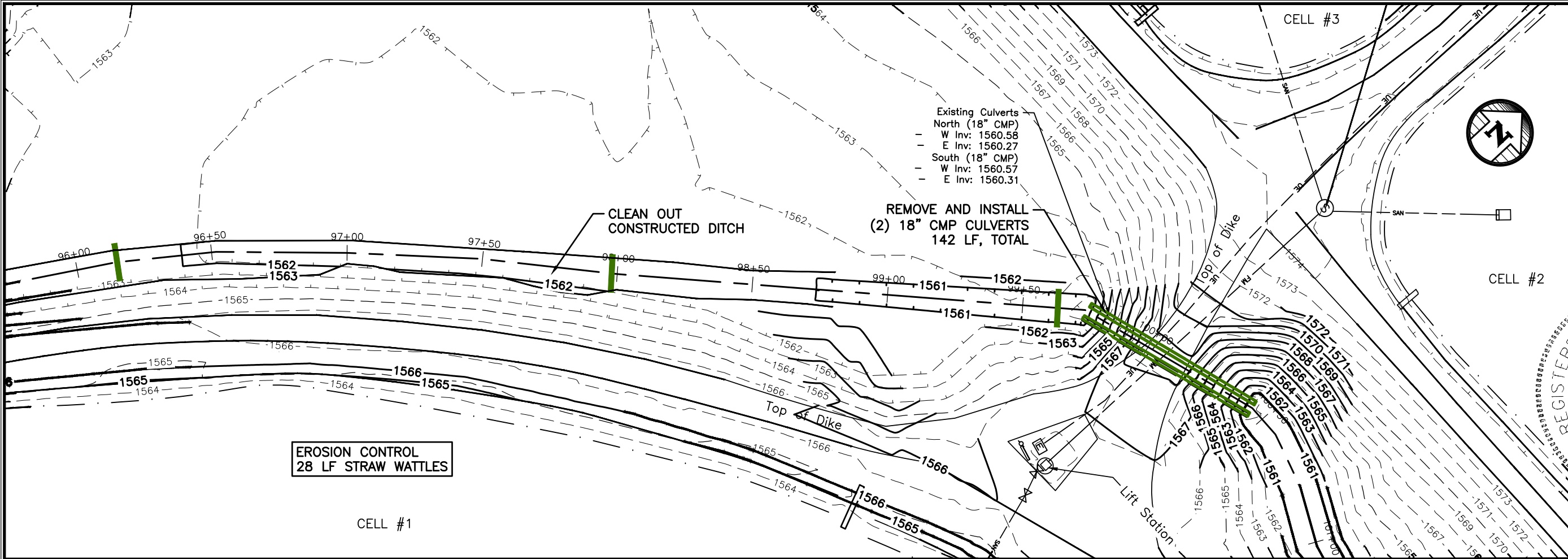
Sheet Number:

9

Total Sheets:

39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs WWTP Improv.dwg, North Ditch Plan and Profile 11x17 (2), 3/19/2026 1:16:47 PM



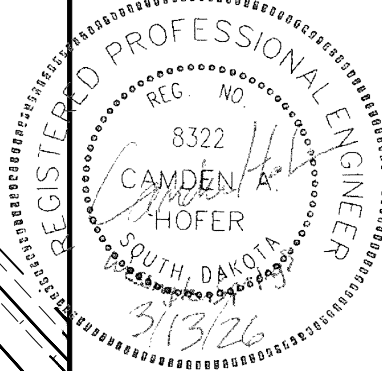
SPN & Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWTP

Project Name:

Wastewater
Treatment
Improvements

Located in:

Wessington
Springs,
South Dakota

Sheet Name:

North Ditch
Plan & Profile

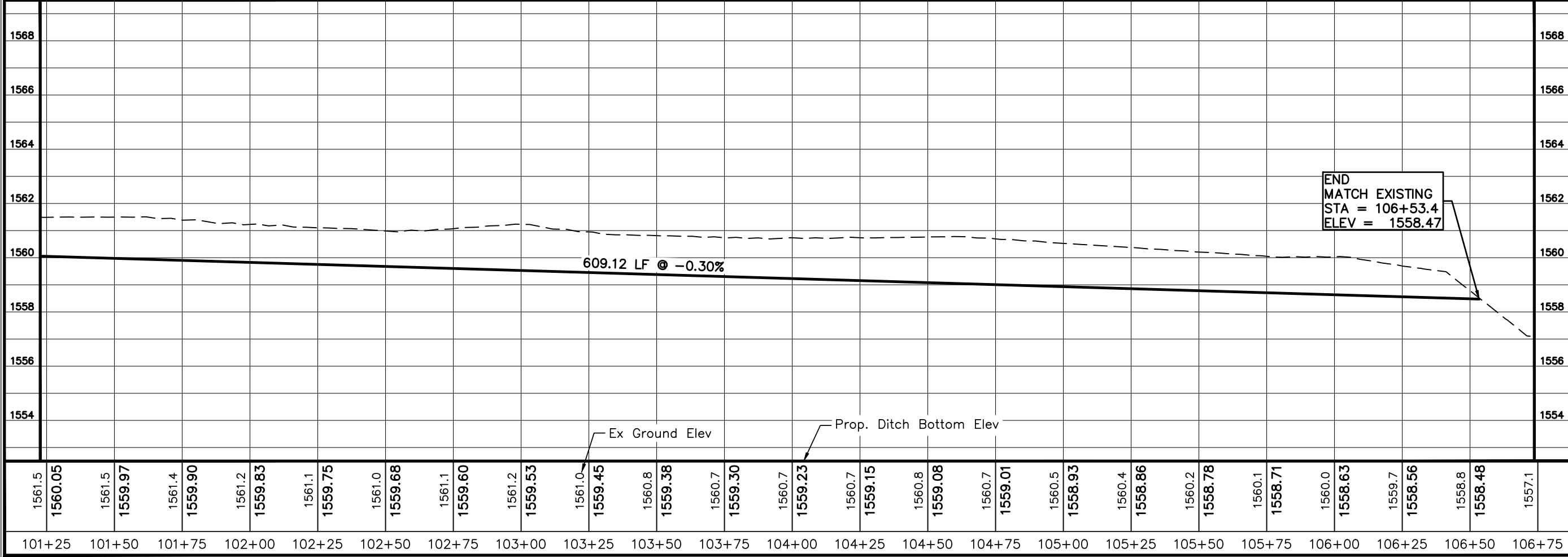
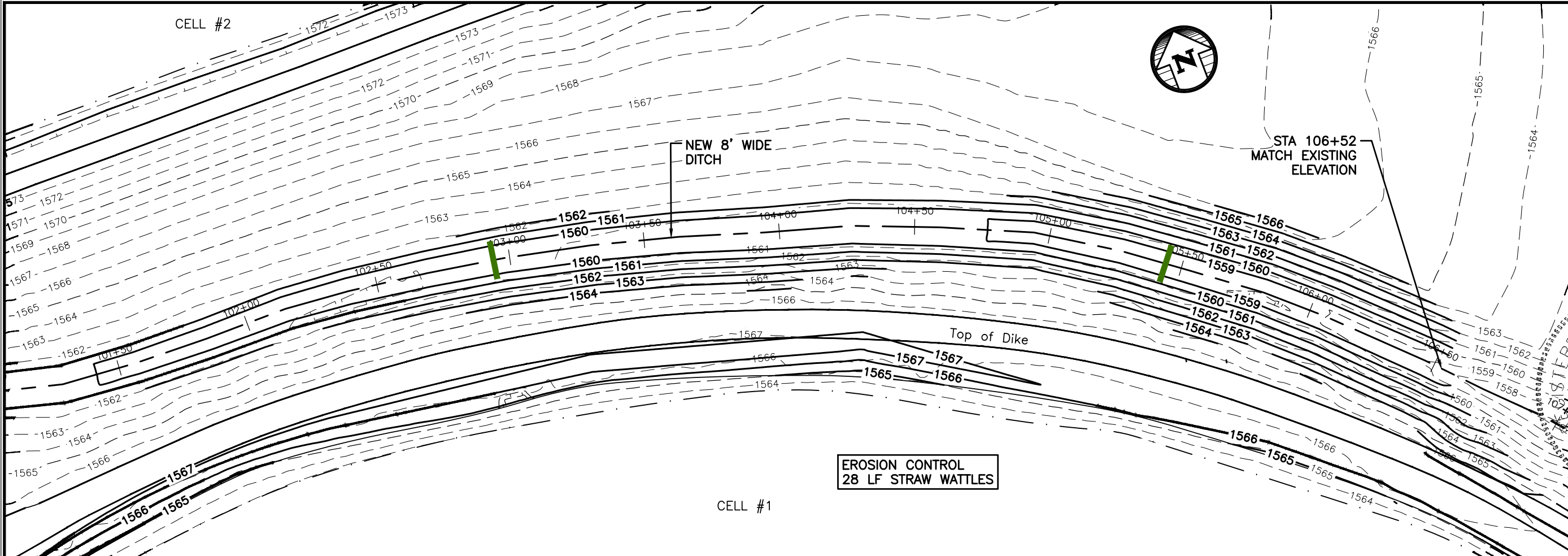
Sheet Number:

10

Total Sheets:

39

G:\Files\CAD\land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, North Ditch Plan and Profile 11x17 (3), 3/19/2026 1:16:55 PM



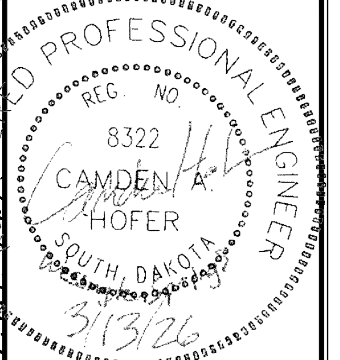
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
Wastewater Treatment Improvements

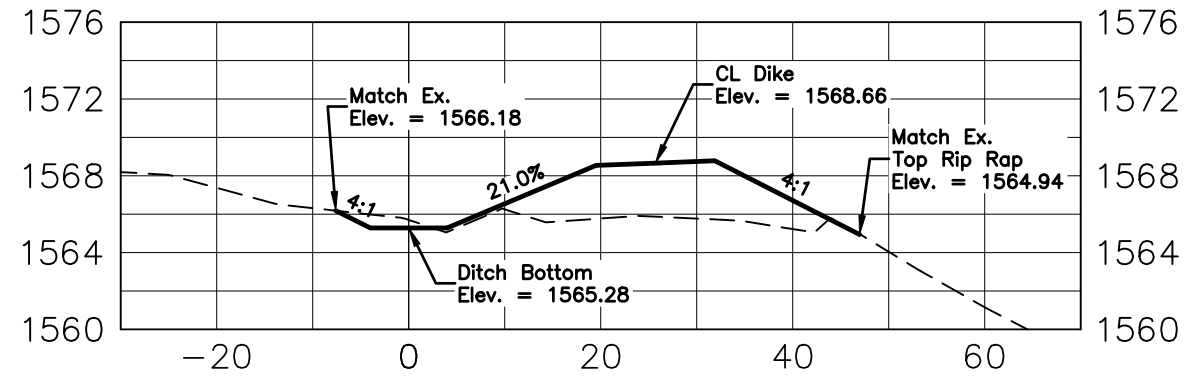
Located in:
Wessington Springs, South Dakota

Sheet Name:
North Ditch Plan & Profile

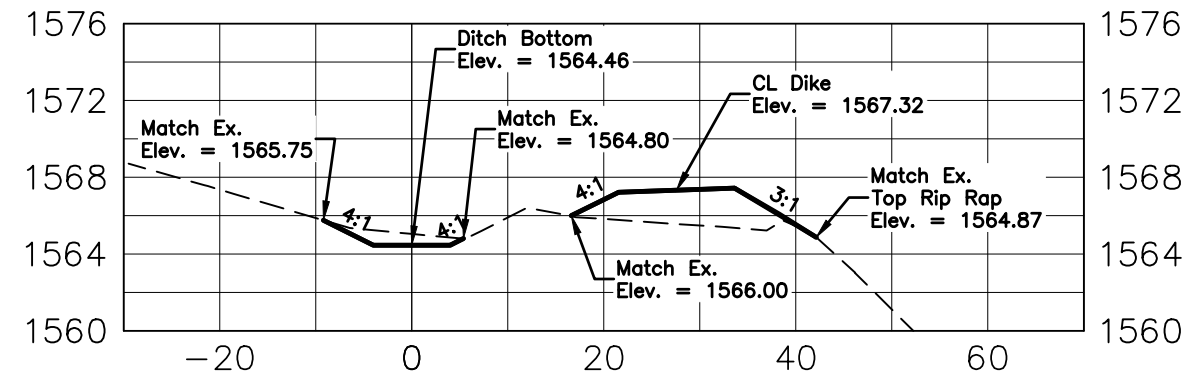
Sheet Number:	Total Sheets:
11	39

G:\Files\CAD\Land Project R2 (Job #s 16000-1)\16790-Wessington Springs WWT Improv.dwg North Ditch Cross Sections 11x17, 3/19/2026 1:17:01 PM

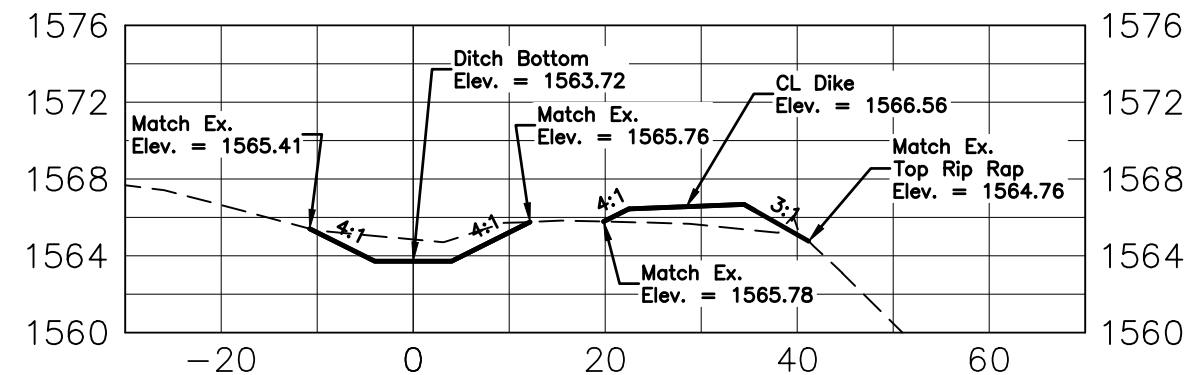
92+00



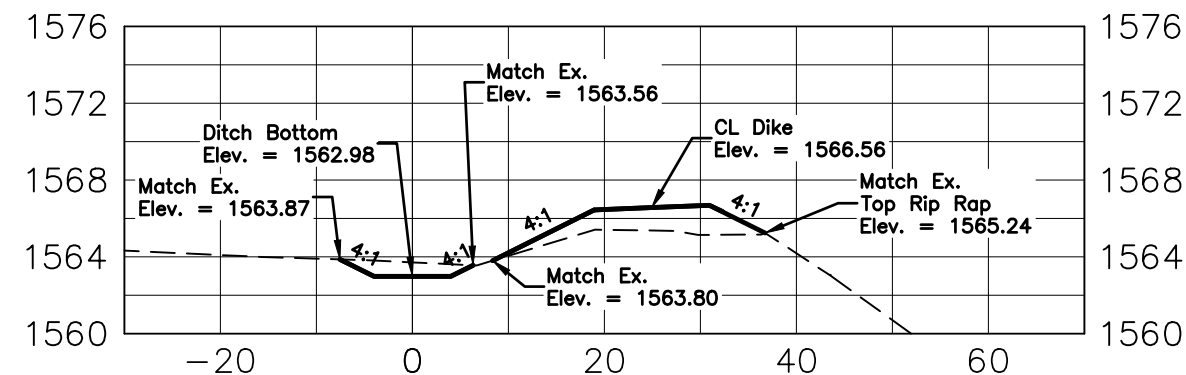
93+00



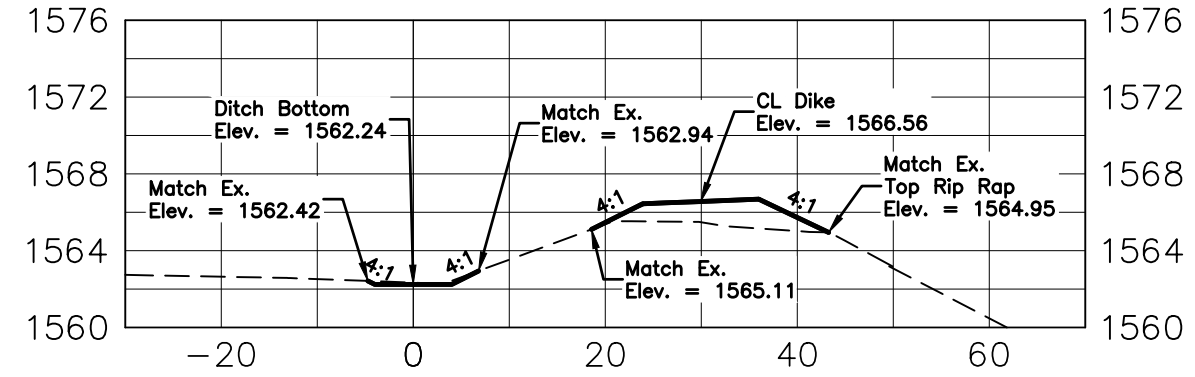
94+00



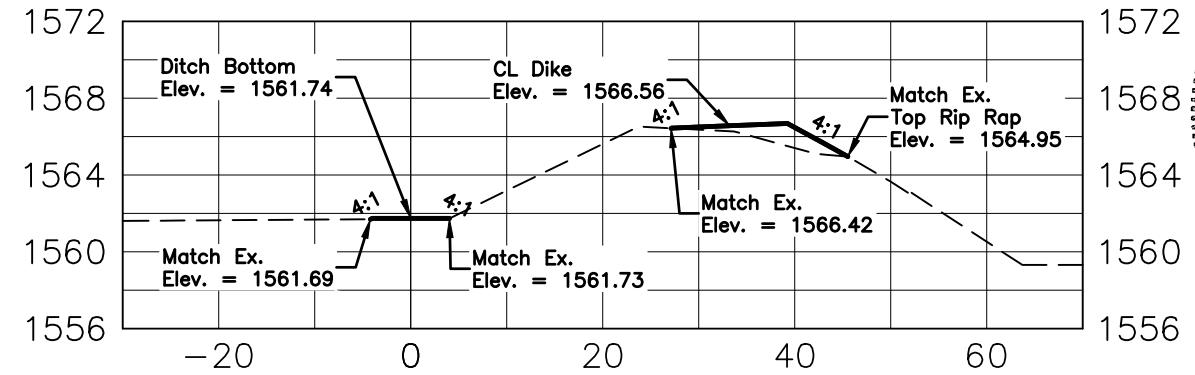
95+00



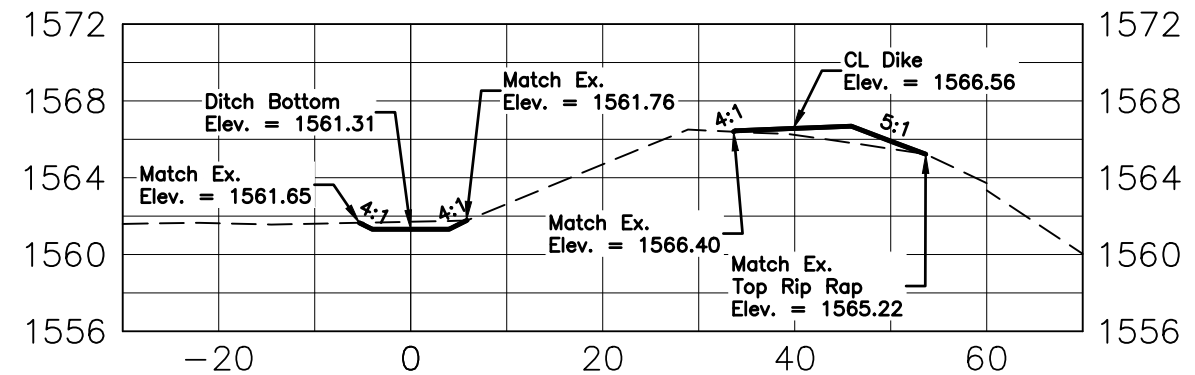
96+00



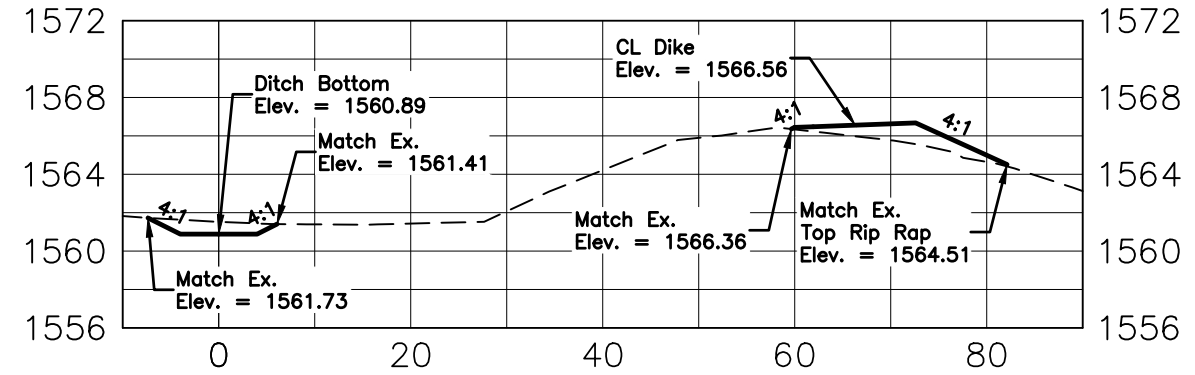
97+00



98+00



99+00



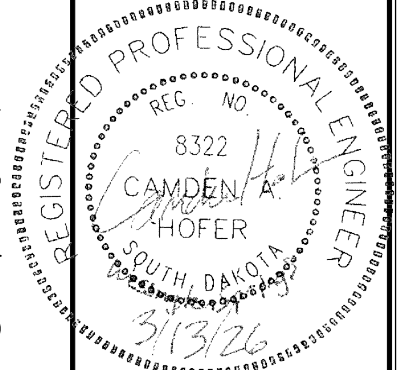
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

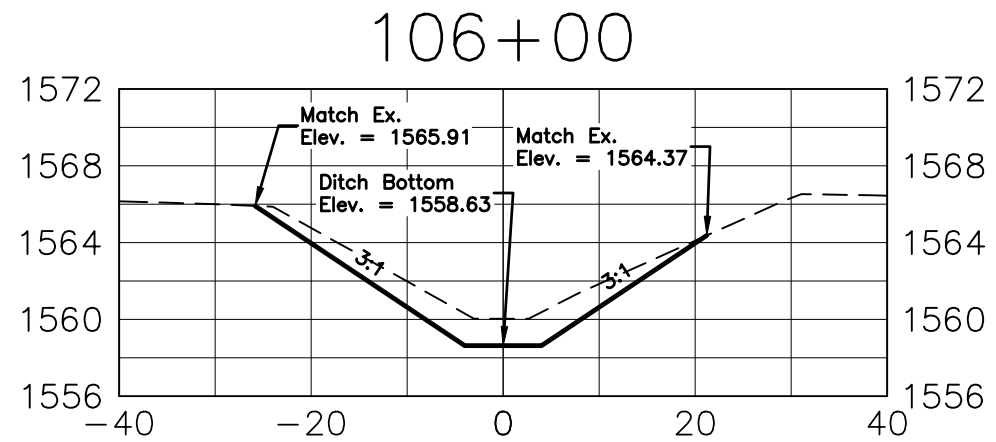
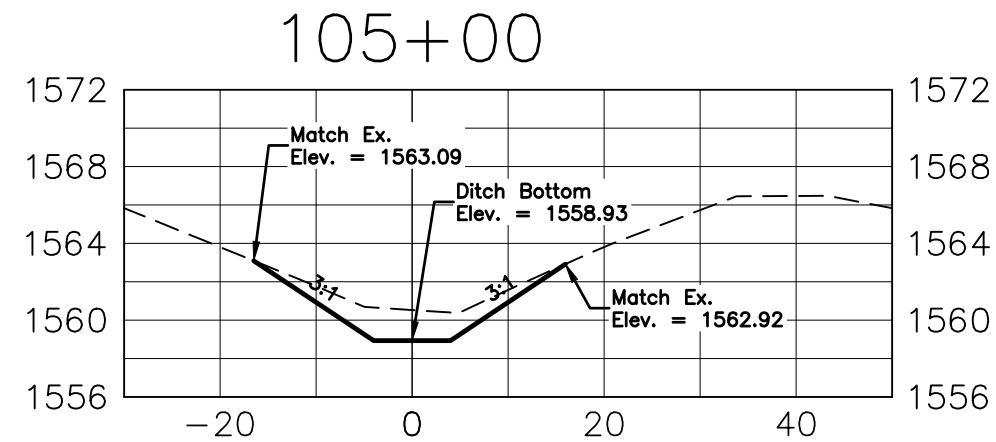
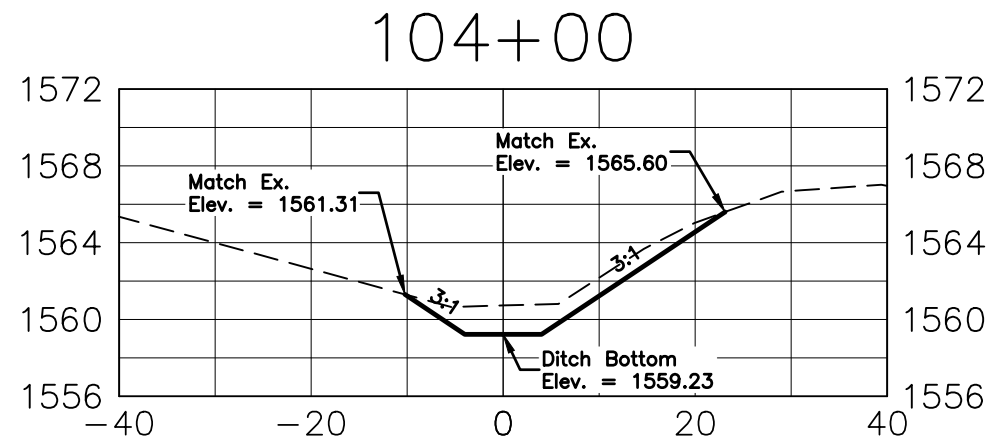
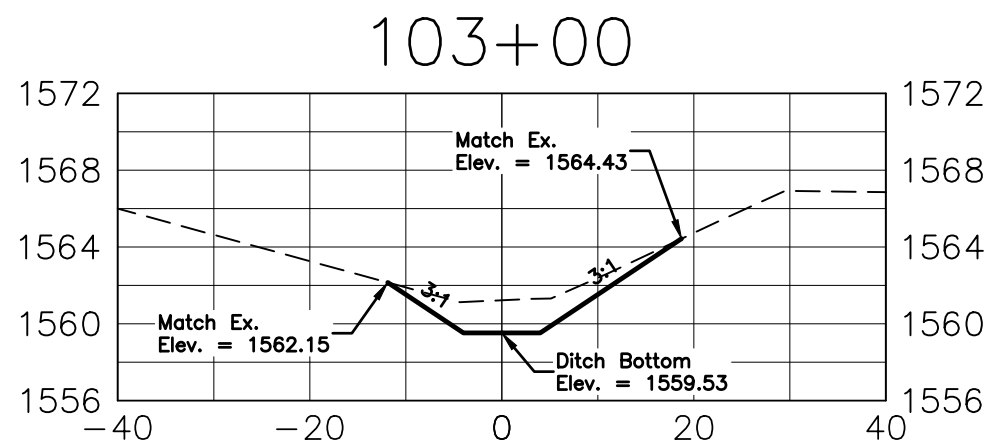
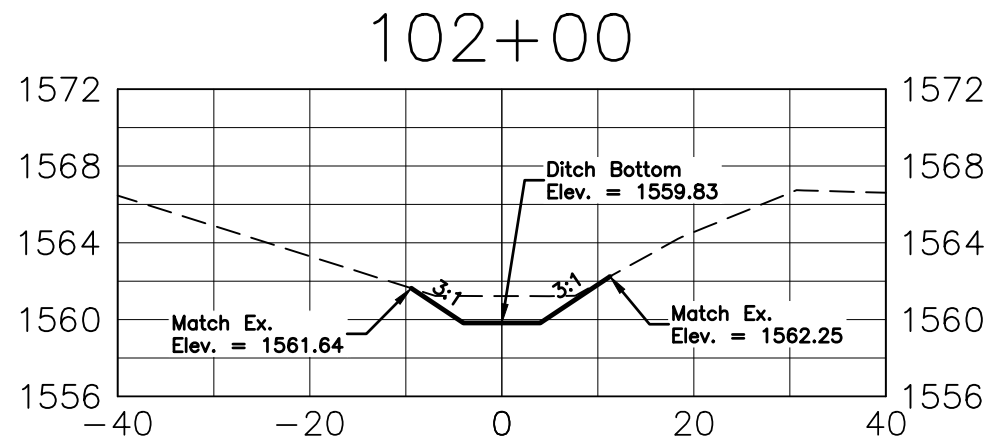
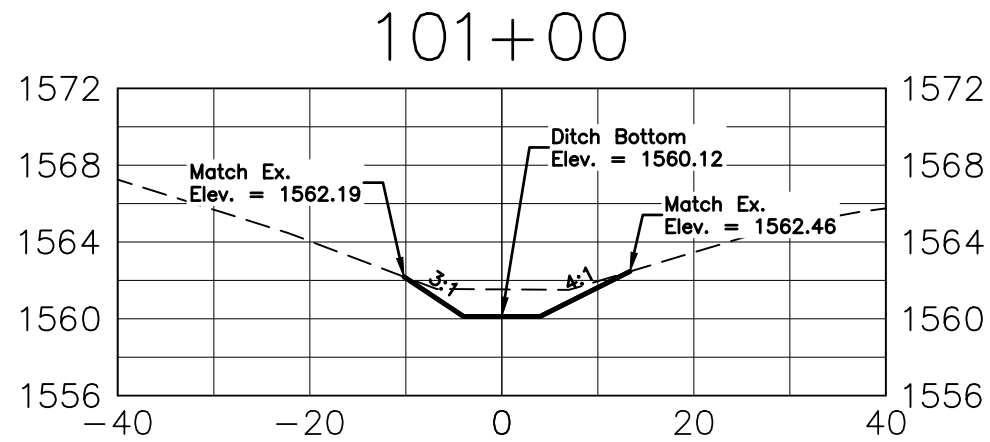
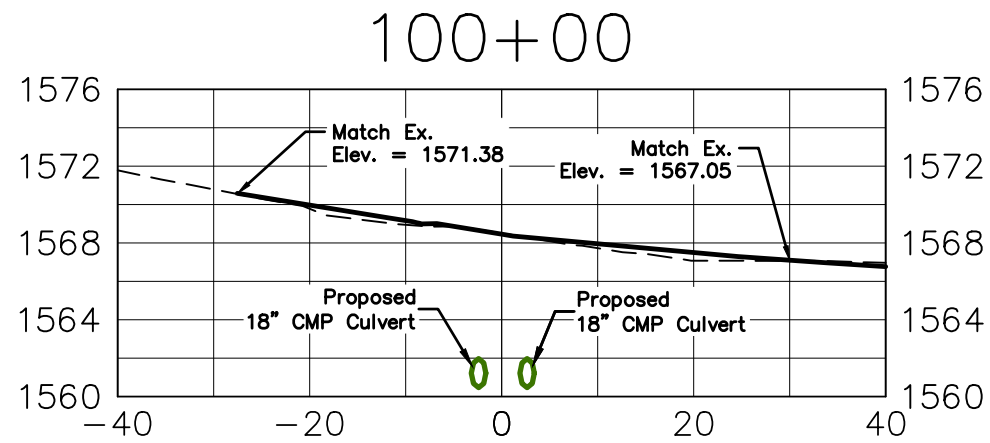
**North Ditch
Cross Sections**

Sheet Number: Total Sheets:

12

39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs WWT Improv.dwg North Ditch Cross Sections 11x17 (2) 3/19/2026 1:17:06 PM



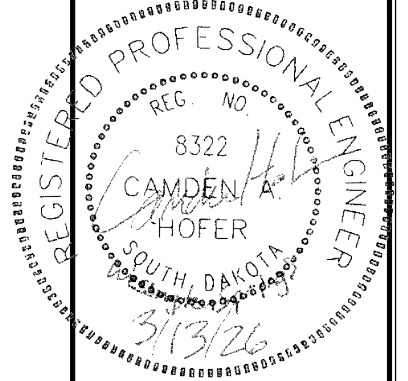
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Snorn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

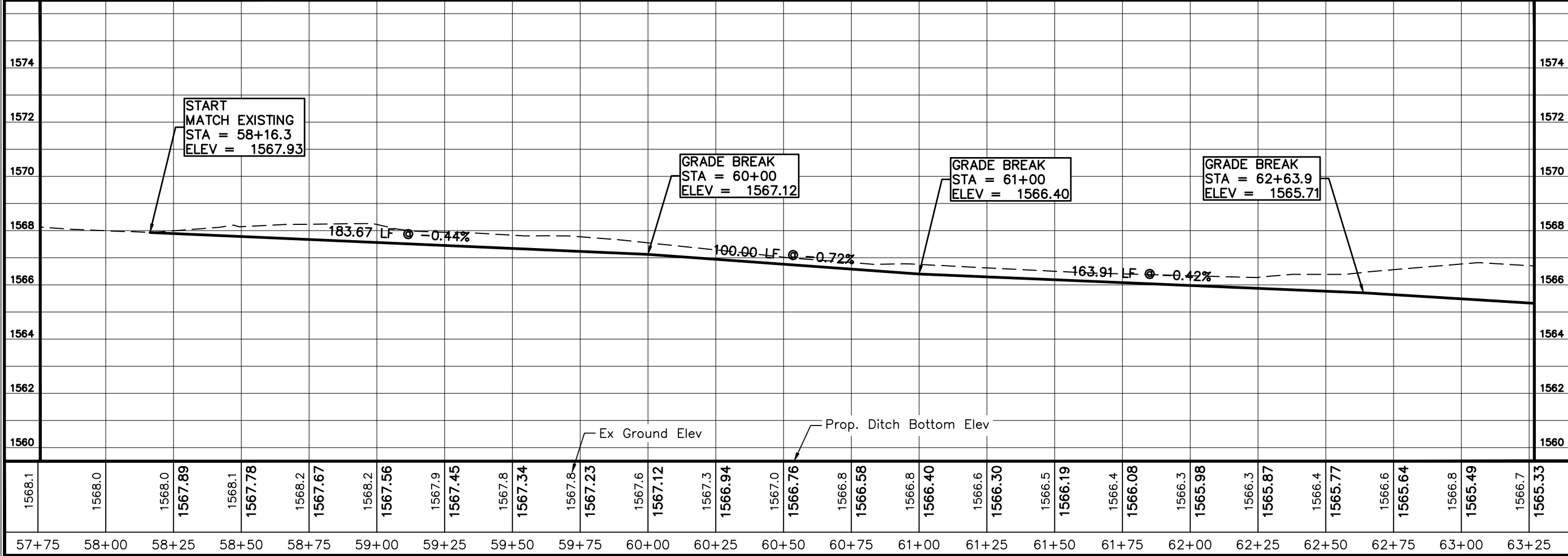
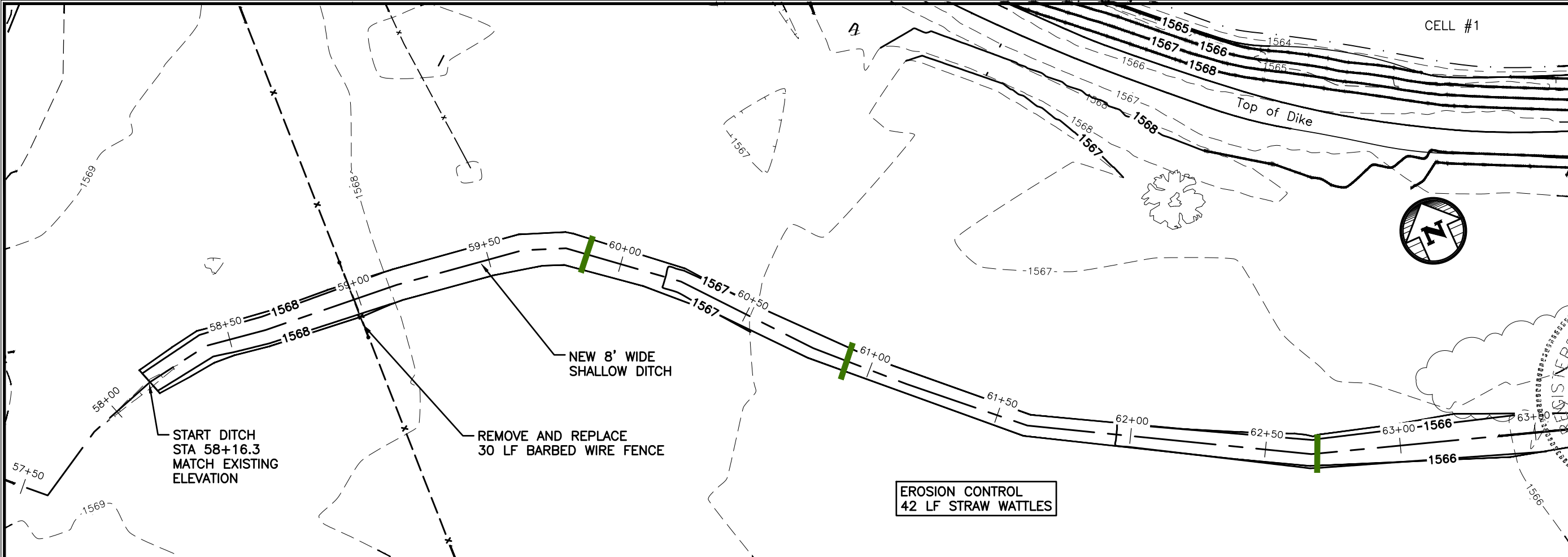
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
North Ditch Cross Sections

Sheet Number:	Total Sheets:
13	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, South Ditch Plan and Profile 11x17, 3/19/2026 1:54:21 PM



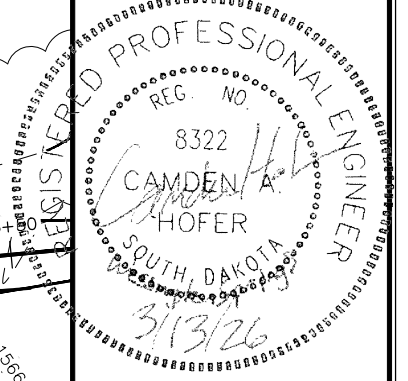
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

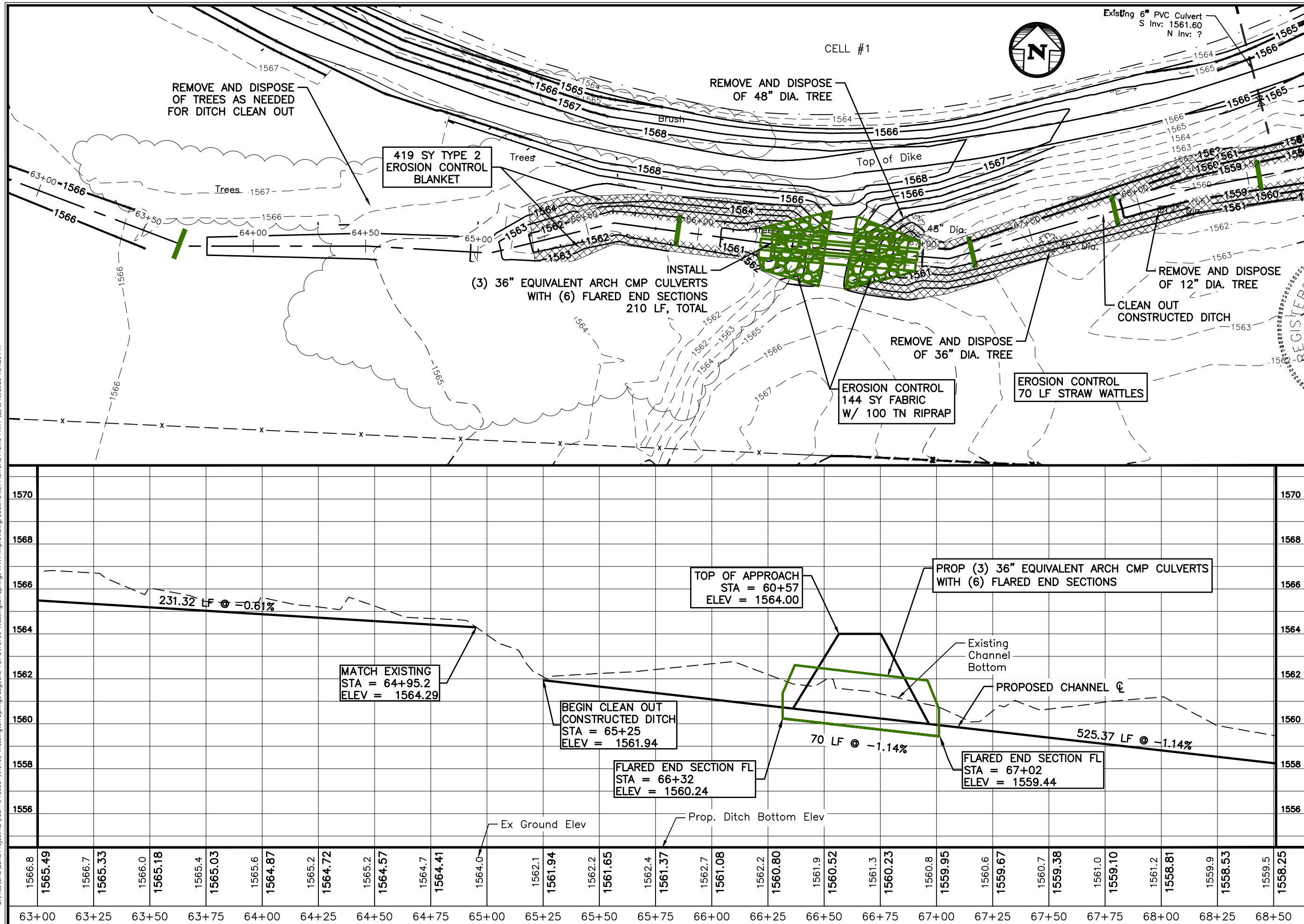
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
South Ditch Plan & Profile

Sheet Number:	Total Sheets:
14	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs WWTP Improv.dwg, South Ditch Plan and Profile 11x17 (2), 3/19/2026 1:54:29 PM



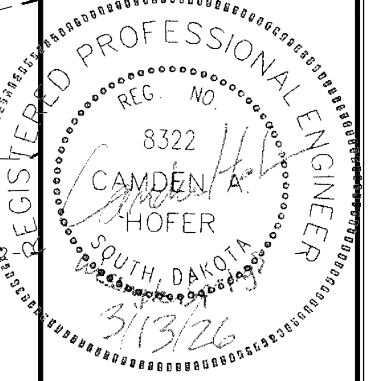
SPN
& Associates

Engineers - Planners - Surveyors

2100 North South Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



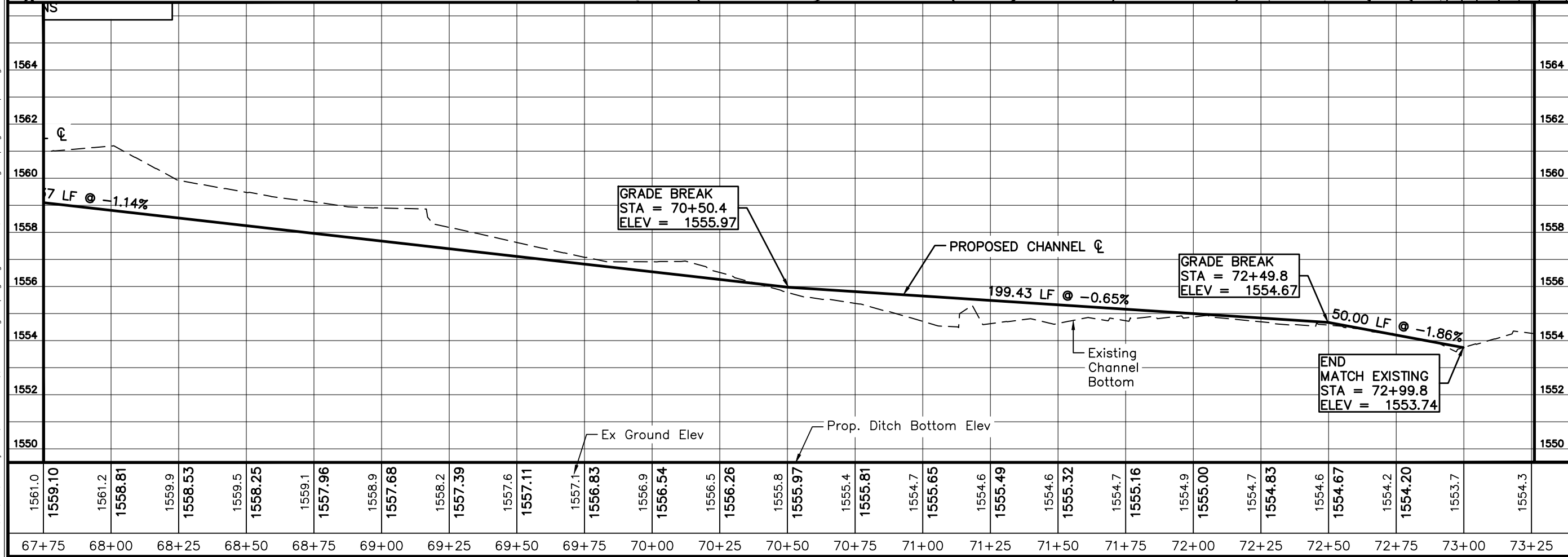
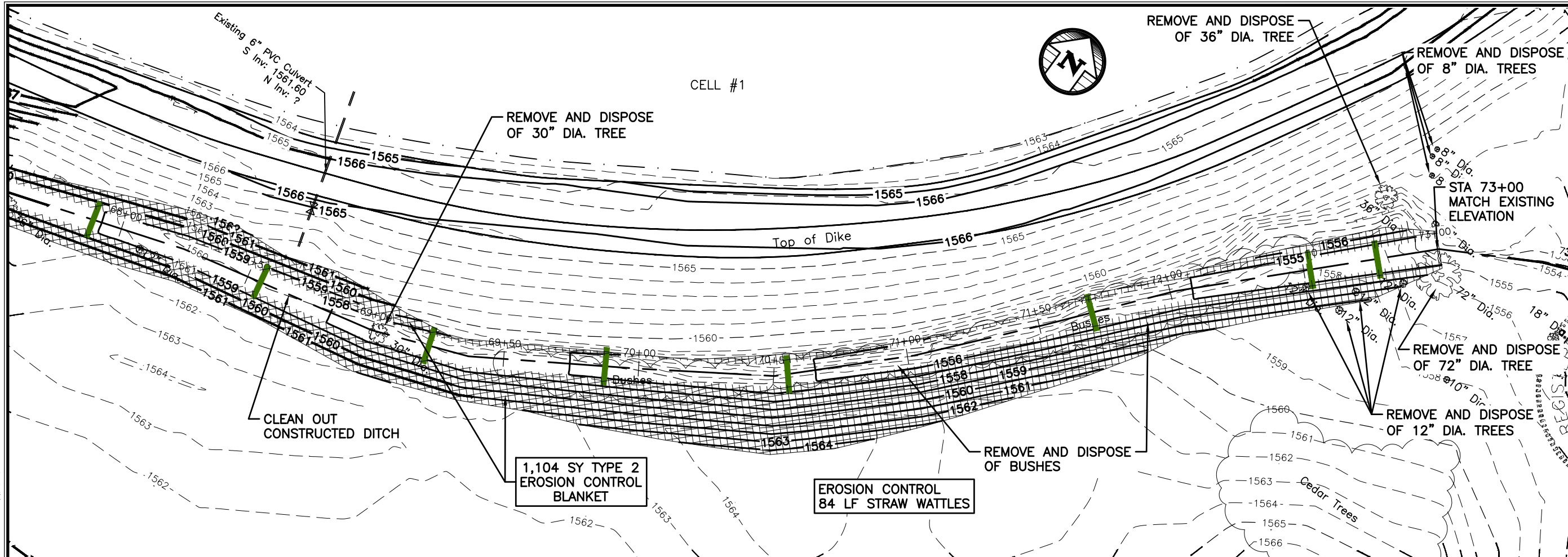
Plan Horiz. Scale: 1" = 40'
Plan Vert. Scale: 1" = 4'
Drawn By: TJH
Checked By: CAH
Date: 01/29/2026
Project No.: 16790
File Name: 16790: Wessington Springs WWTP

Project Name:
Wastewater Treatment Improvements
Located in:
Wessington Springs, South Dakota

Sheet Name:
South Ditch Plan & Profile

Sheet Number: 15
Total Sheets: 39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs WWTP Improv.dwg, South Ditch Plan and Profile 11x17 (3), 3/19/2026 1:54:36 PM



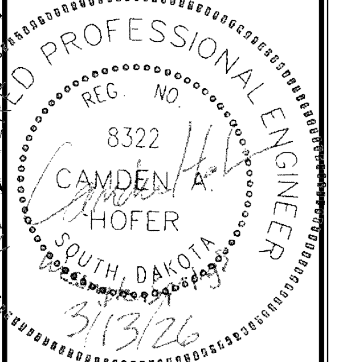
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWTP

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

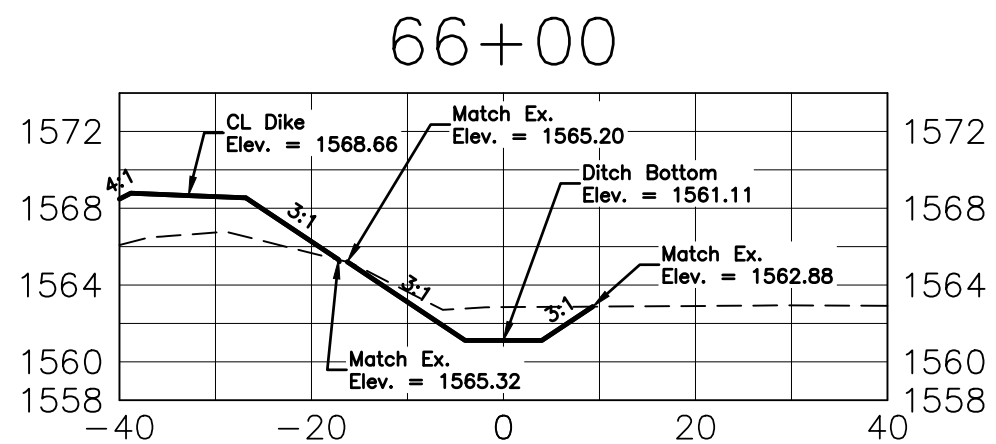
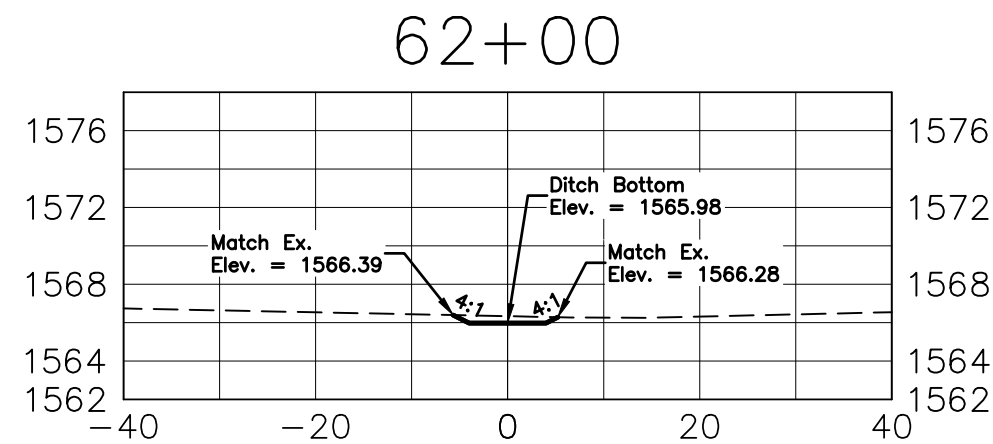
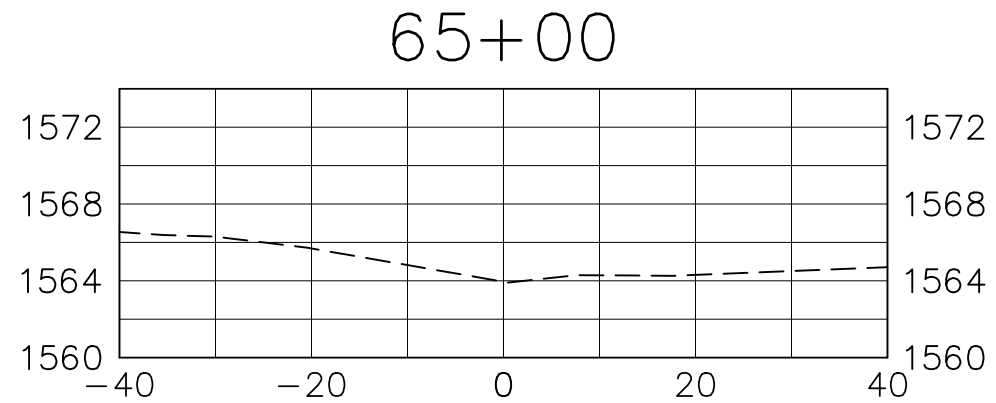
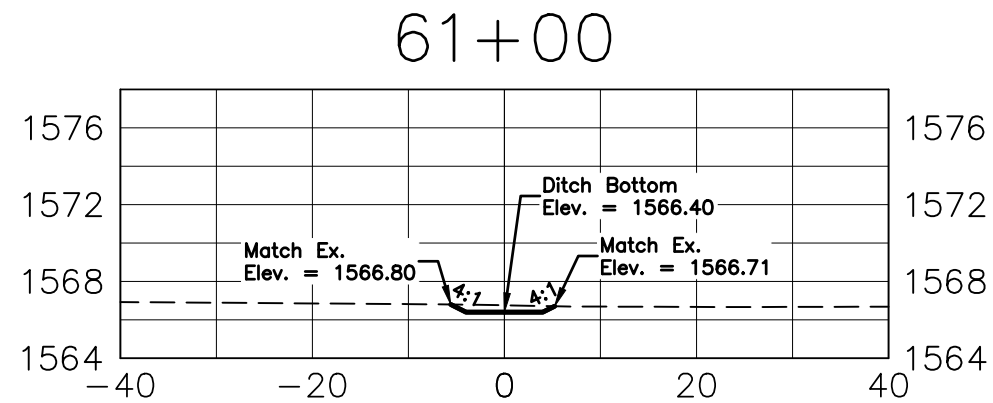
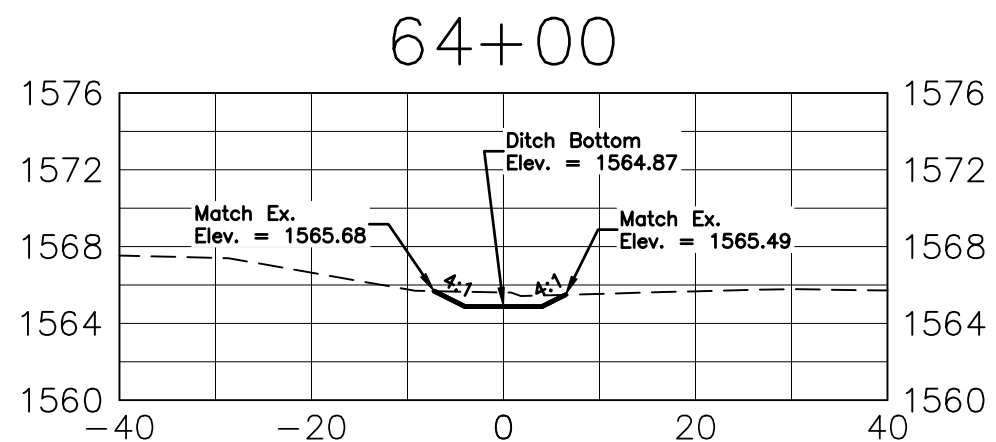
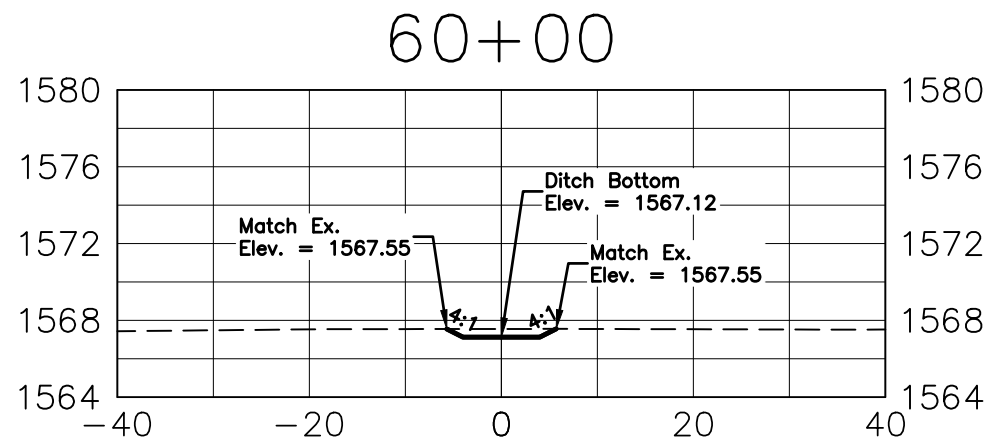
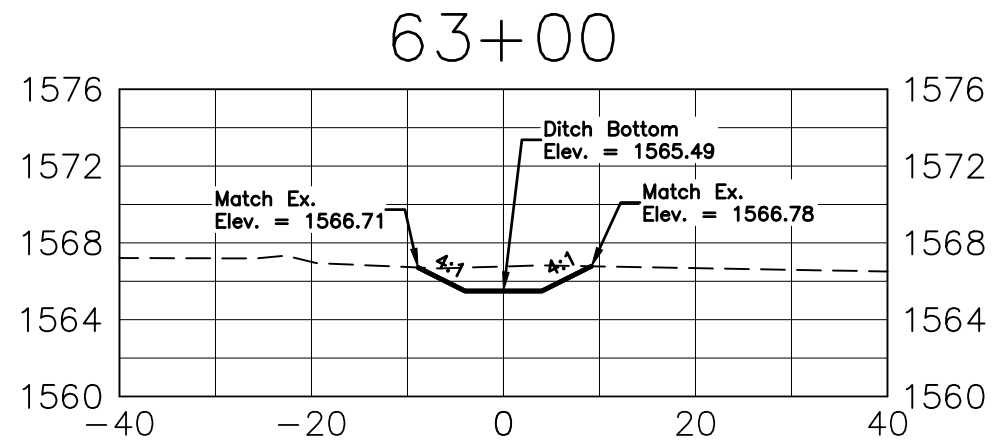
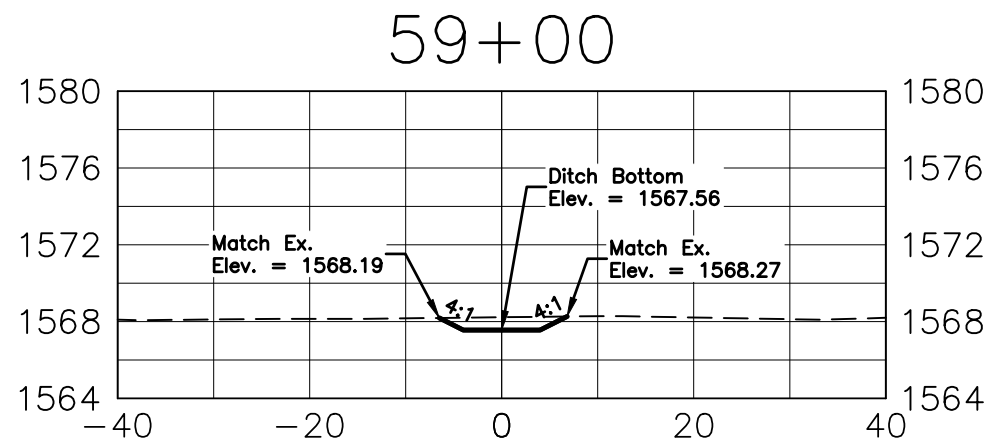
**South Ditch
Plan & Profile**

Sheet Number: Total Sheets:

16

39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs WWT Improv.dwg, South Ditch Cross Sections 11x17, 3/19/2026 1:17:32 PM



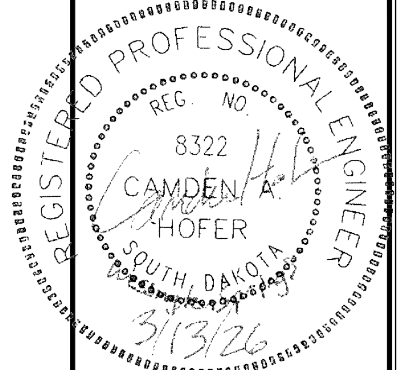
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790:Wessington Springs WWT

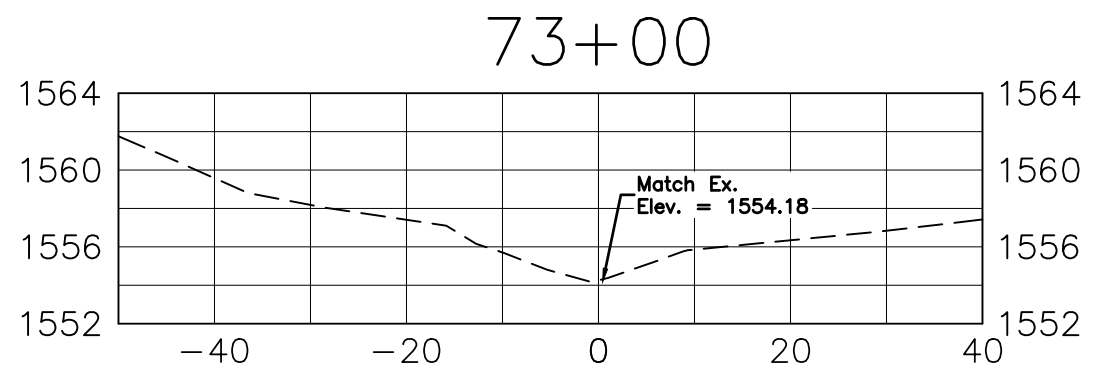
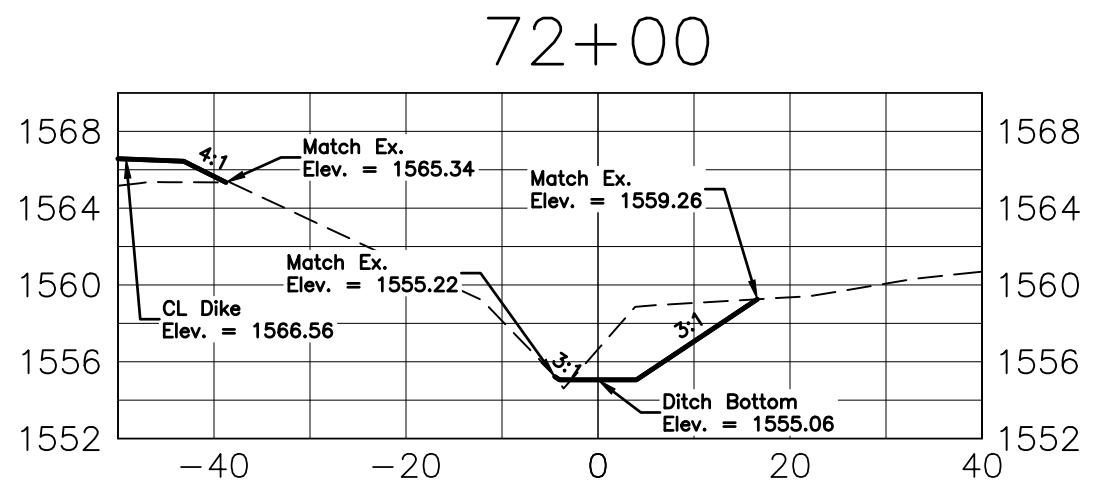
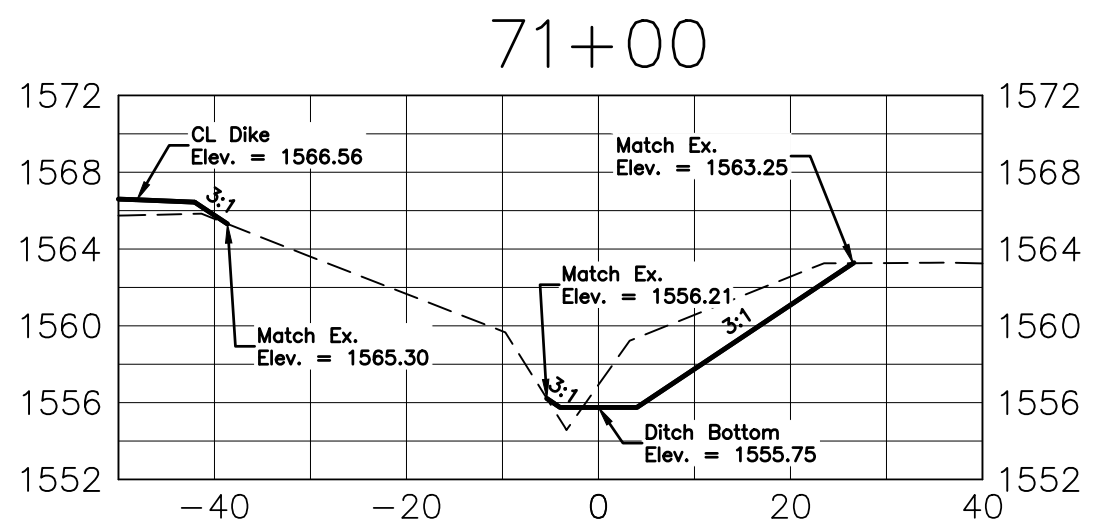
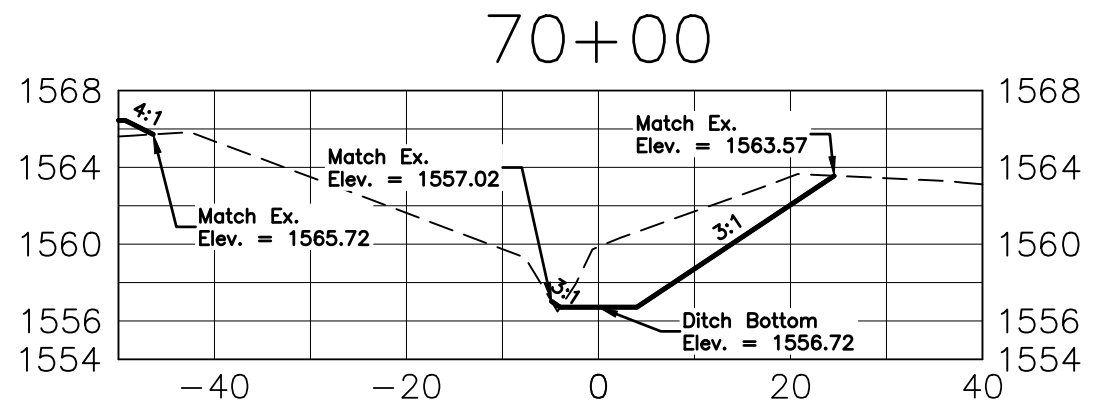
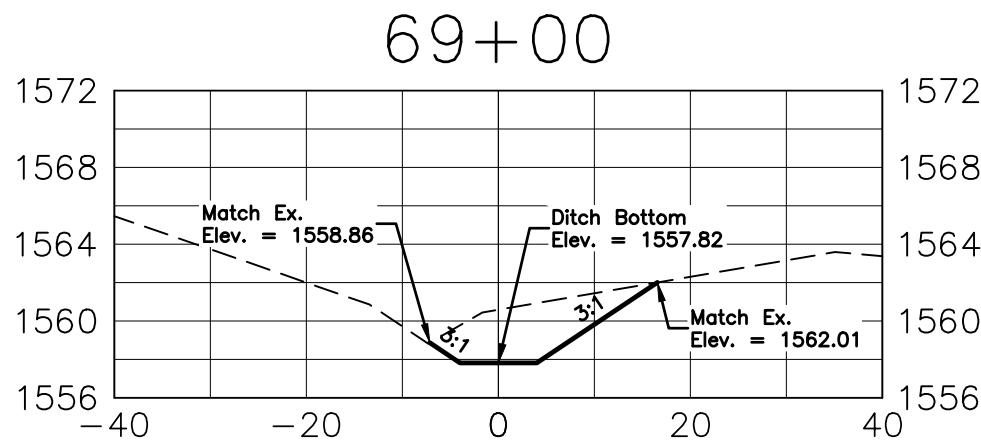
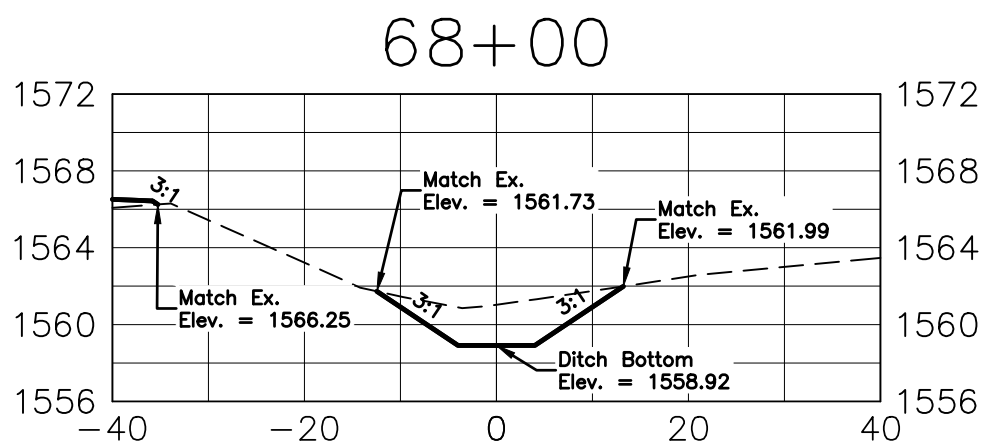
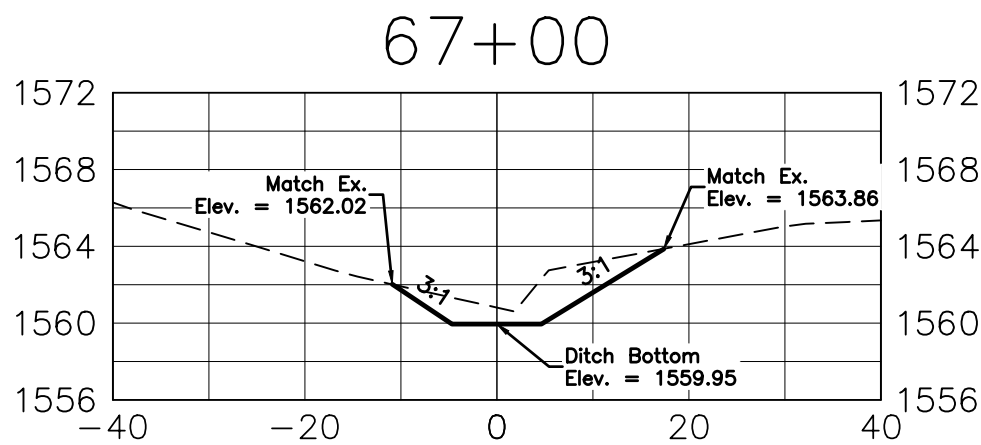
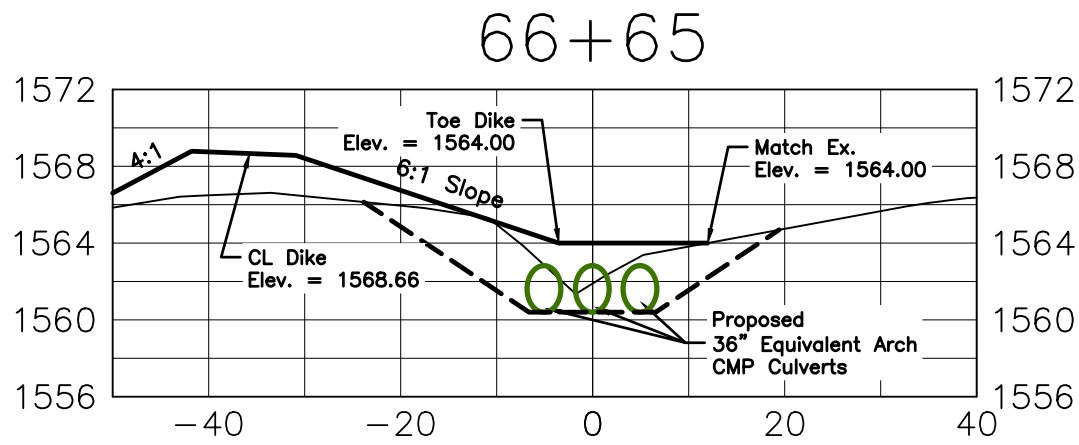
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
South Ditch Cross Sections

Sheet Number:	Total Sheets:
17	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs WWT Improv.dwg, South Ditch Cross Sections 11x17 (2), 3/19/2026 1:17:38 PM



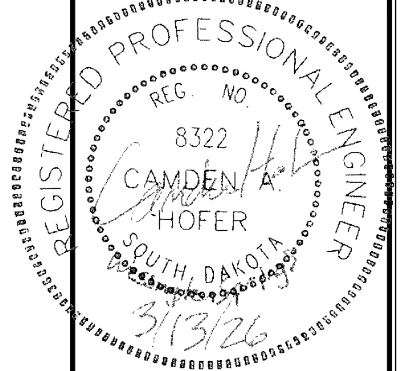
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

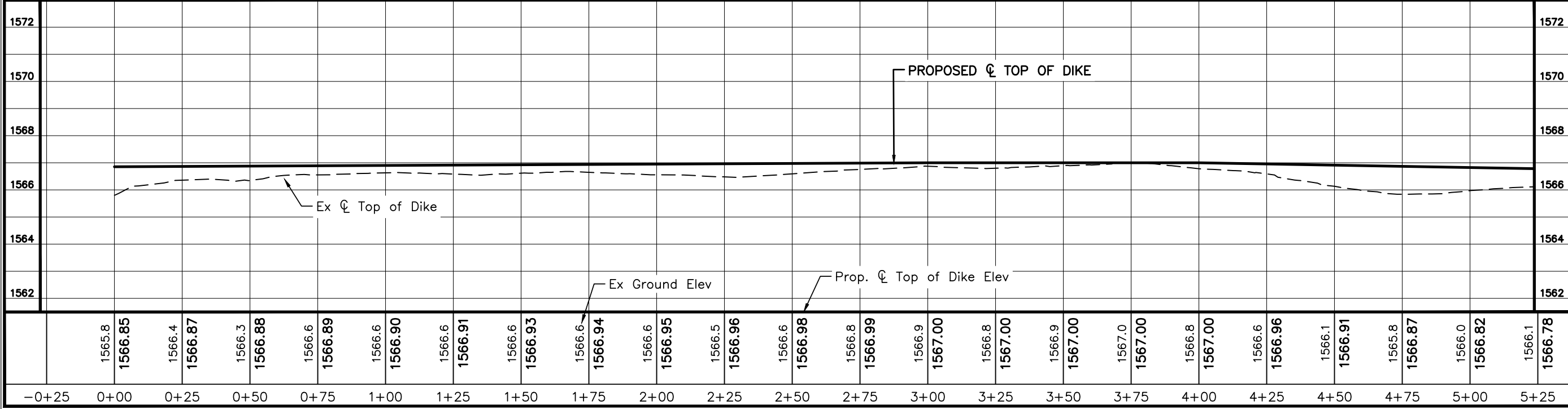
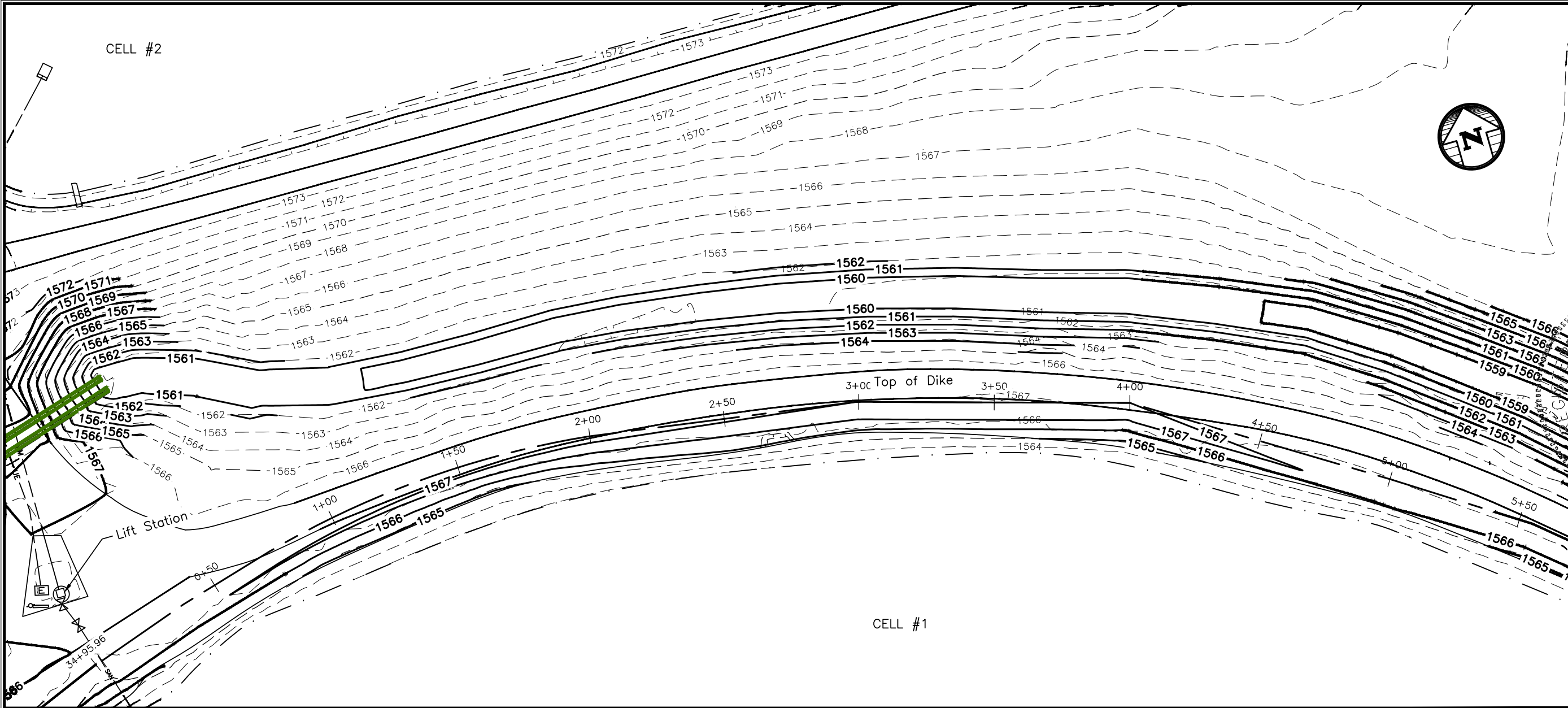
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
South Ditch Cross Sections

Sheet Number:	Total Sheets:
18	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Plan and Profile 11x17, 3/19/2026 11:17:45 PM



SPN

& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.

REGISTERED PROFESSIONAL ENGINEER

REG. NO. 8322

CAMDEN A. HOFFER

SOUTH DAKOTA

3/13/26

Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

Wastewater Treatment Improvements

Located in:

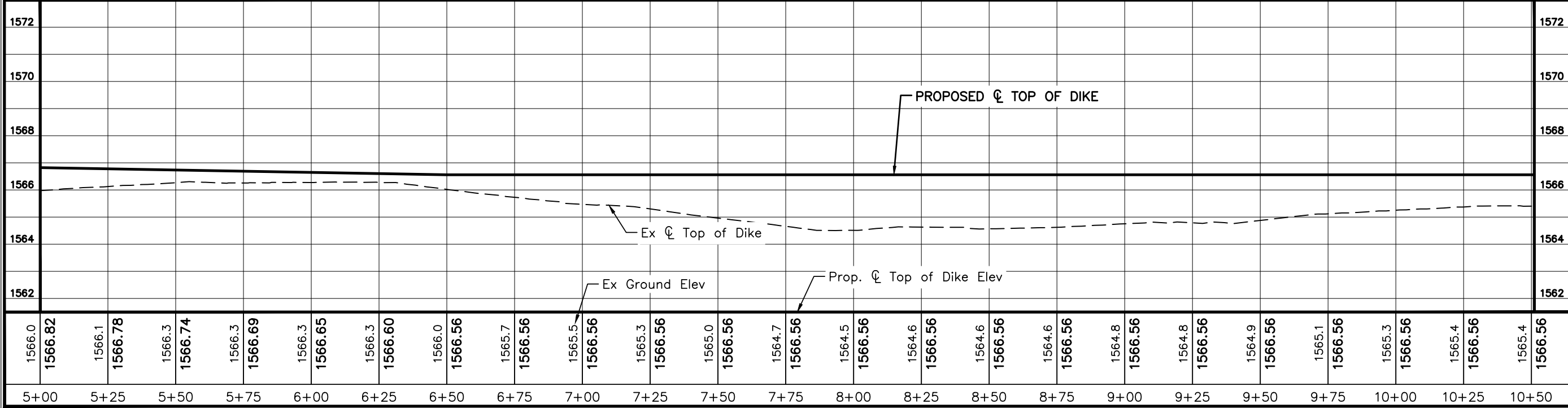
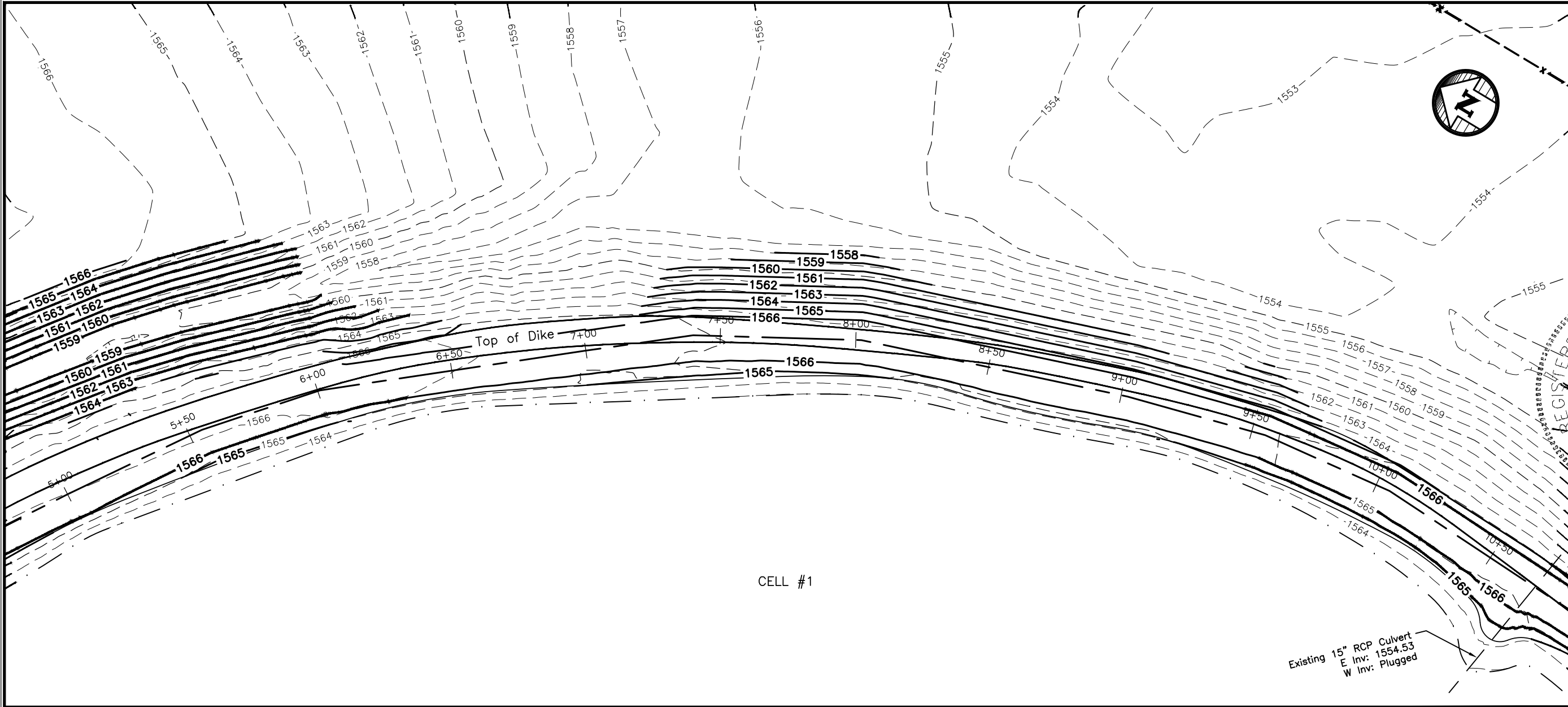
Wessington Springs, South Dakota

Sheet Name:

Top of Dike Cell #1 Plan & Profile

Sheet Number:	Total Sheets:
19	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improvdwg. Top Dike Plan and Profile 11x17 (2). 3/19/2026 1:17:51 PM



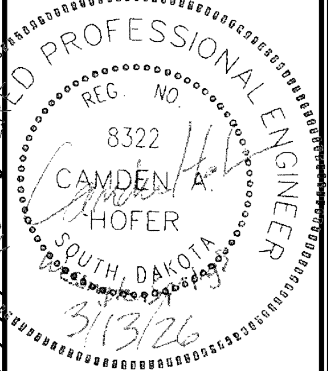
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

**Top of Dike Cell #1
Plan & Profile**

Sheet Number:

20

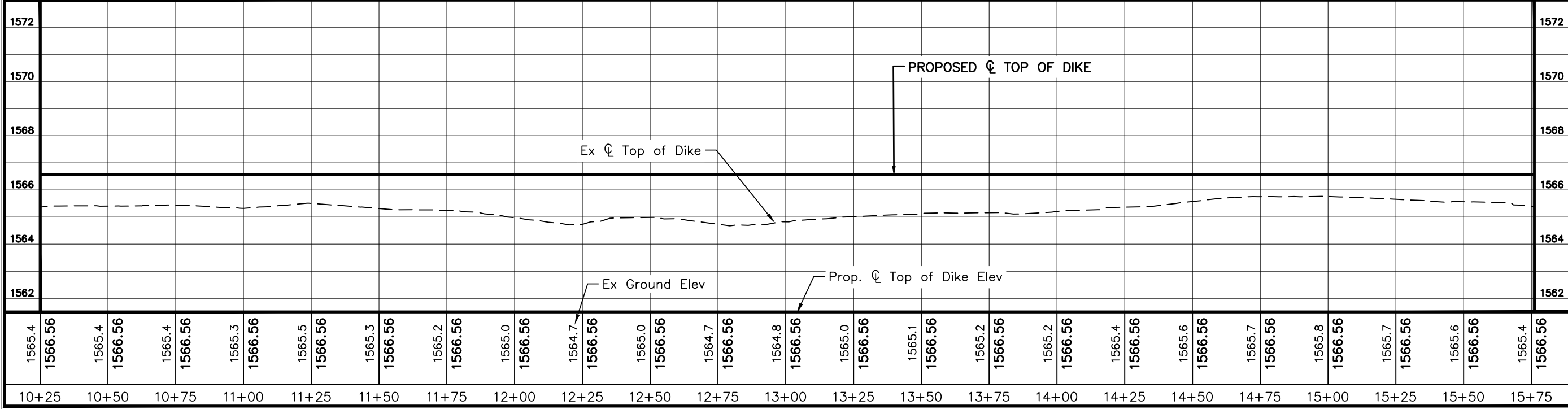
Total Sheets:

39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Plan and Profile 11x17 (3), 3/19/2026 1:54:43 PM



CELL #1



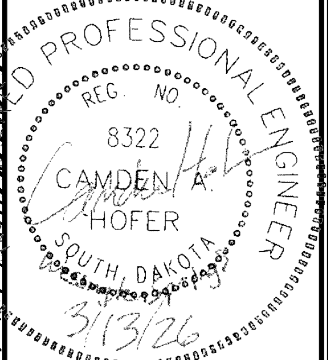
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

Wastewater
Treatment
Improvements

Located in:

Wessington
Springs,
South Dakota

Sheet Name:

Top of Dike Cell #1
Plan & Profile

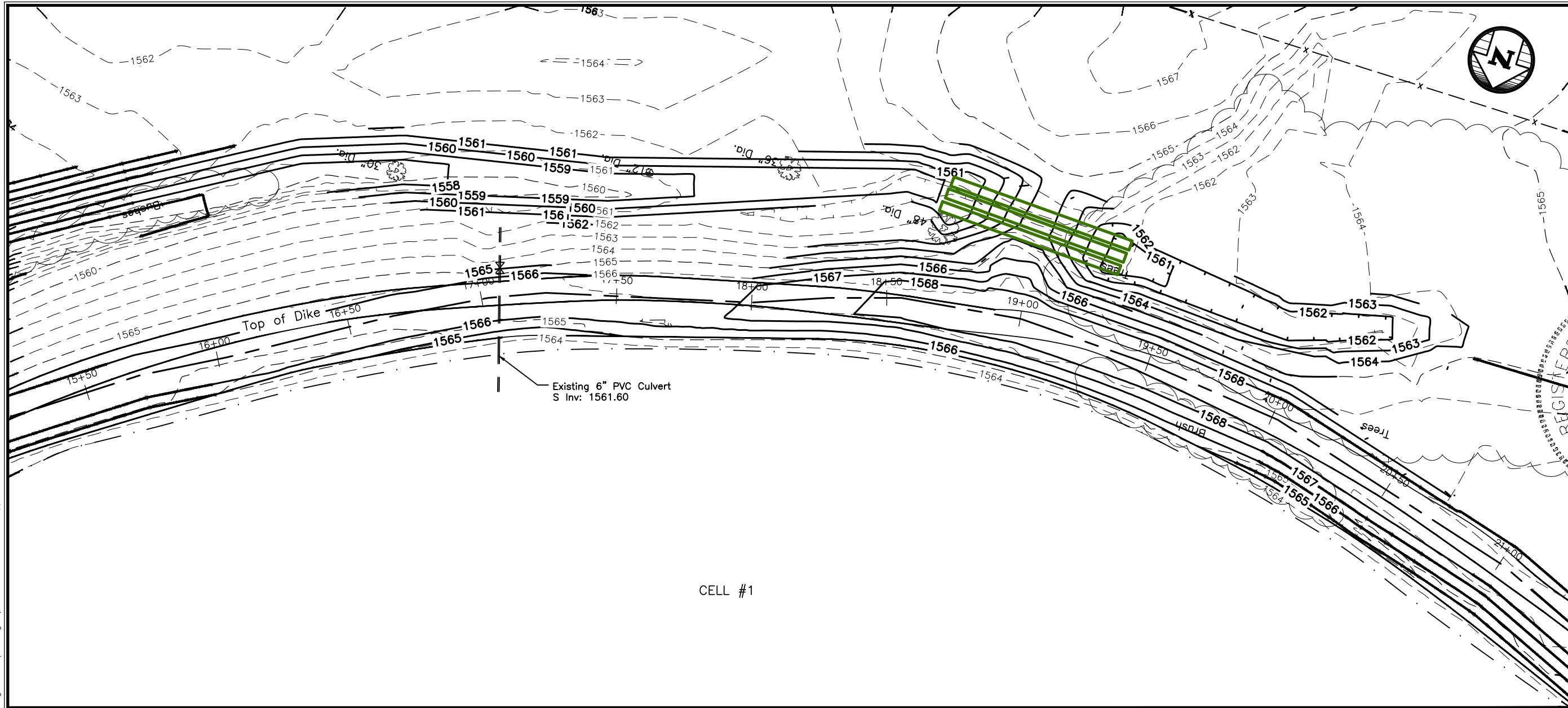
Sheet Number:

21

Total Sheets:

39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Plan and Profile 11x17 (4), 3/19/2026 1:54:50 PM



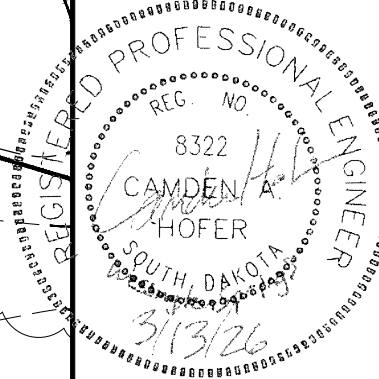
SPN
& Associates

Engineers - Planners - Surveyors

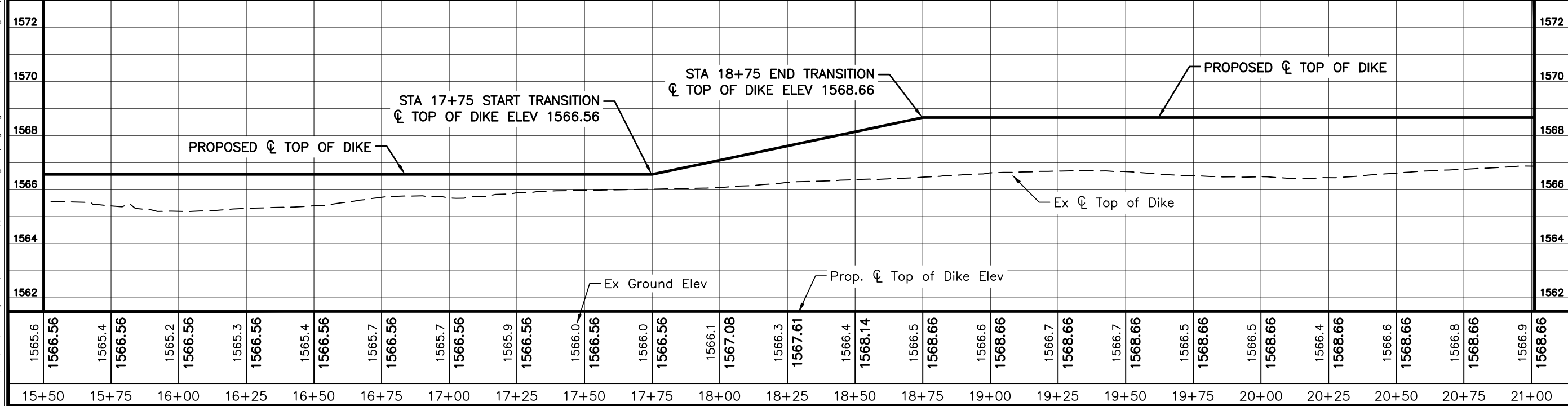
2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



CELL #1



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

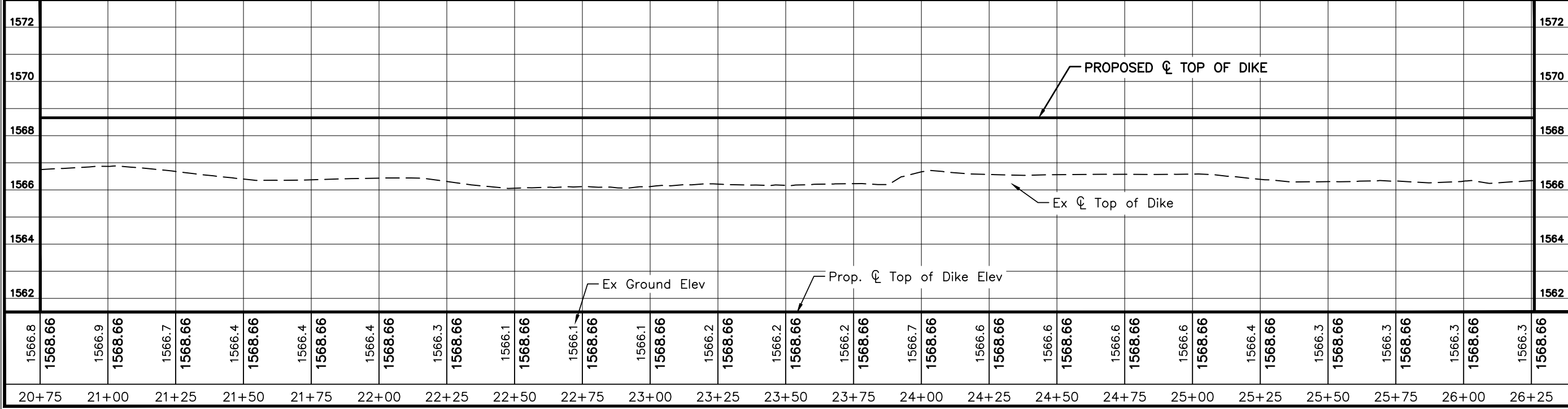
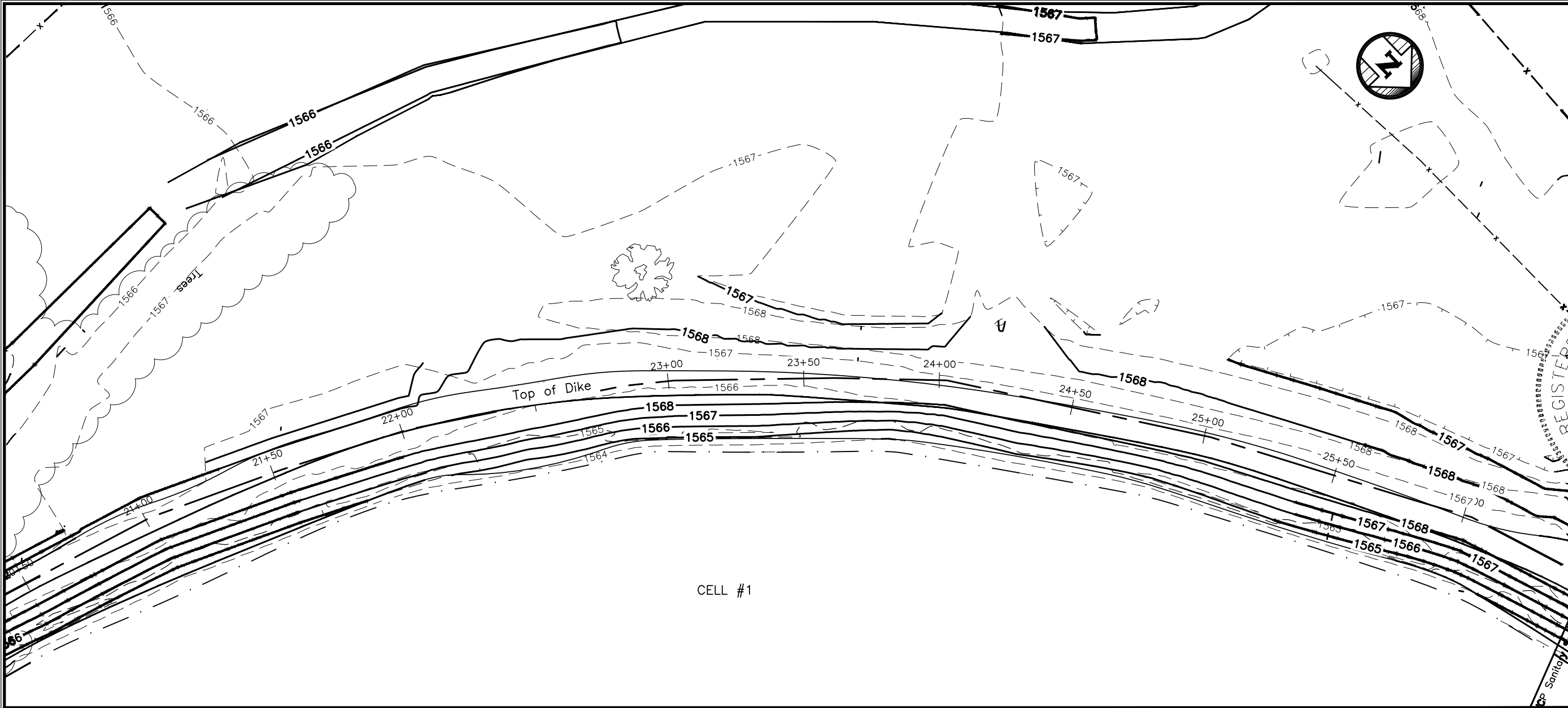
Project Name:
**Wastewater
Treatment
Improvements**

Located in:
**Wessington
Springs,
South Dakota**

Sheet Name:
**Top of Dike Cell #1
Plan & Profile**

Sheet Number:	Total Sheets:
22	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Plan and Profile 11x17 (S), 3/19/2026 1:54:57 PM



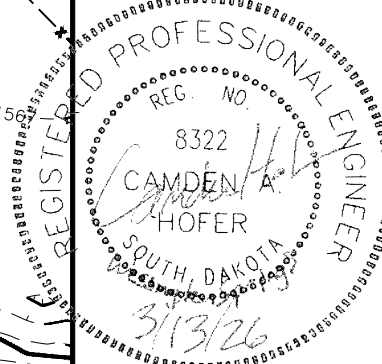
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

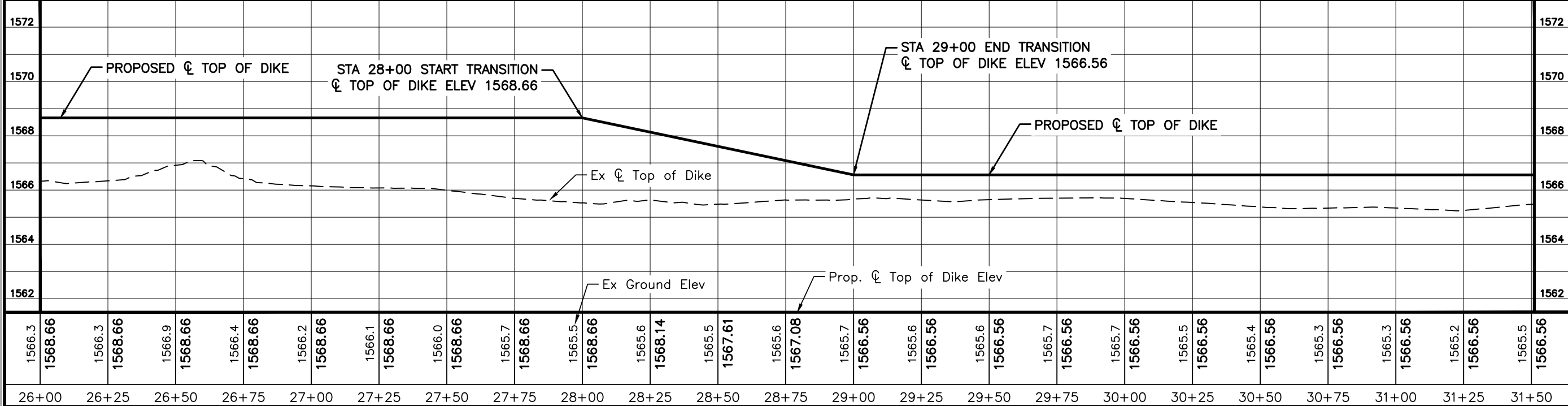
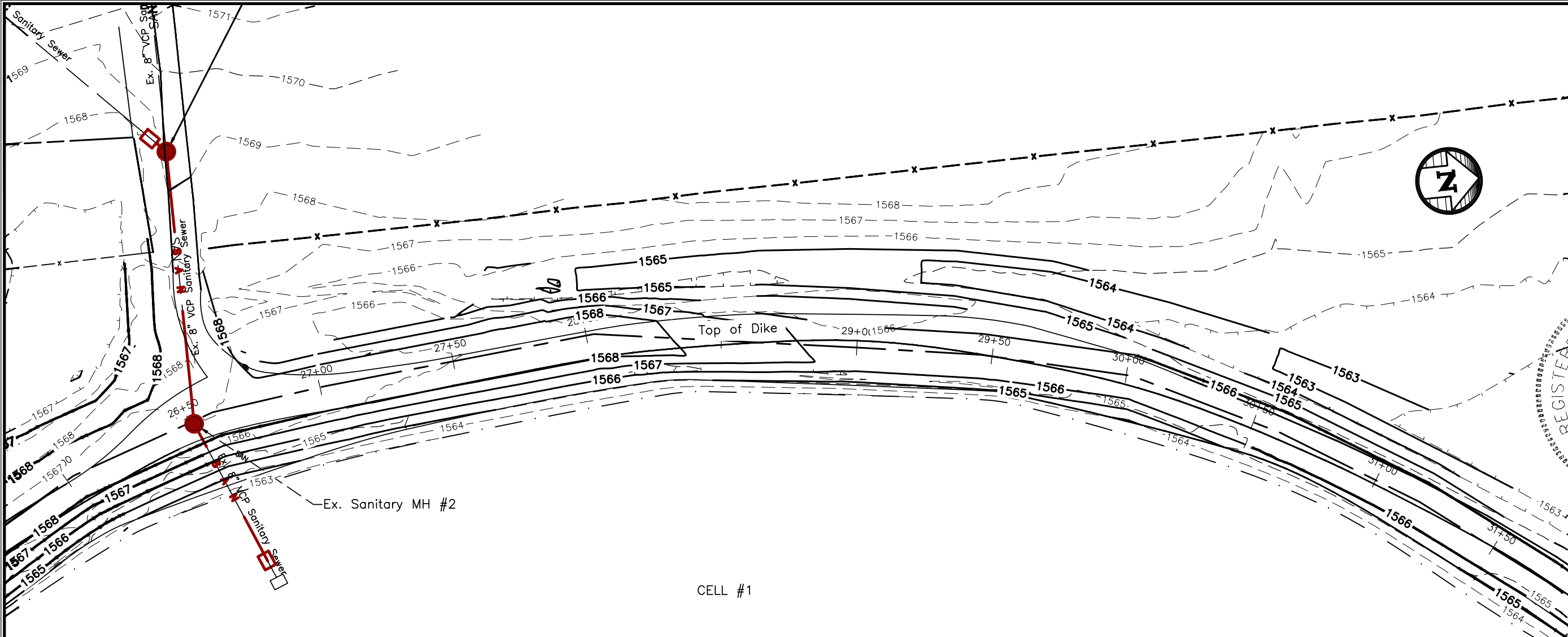
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
Top of Dike Cell #1 Plan & Profile

Sheet Number:	Total Sheets:
23	39

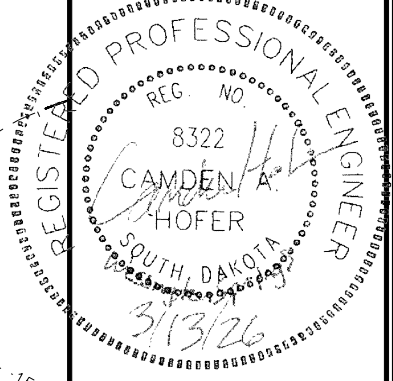
G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Plan and Profile 11x17 (6), 3/19/2026 1:18:19 PM



SPN
& Associates

Engineers - Planners - Surveyors
2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

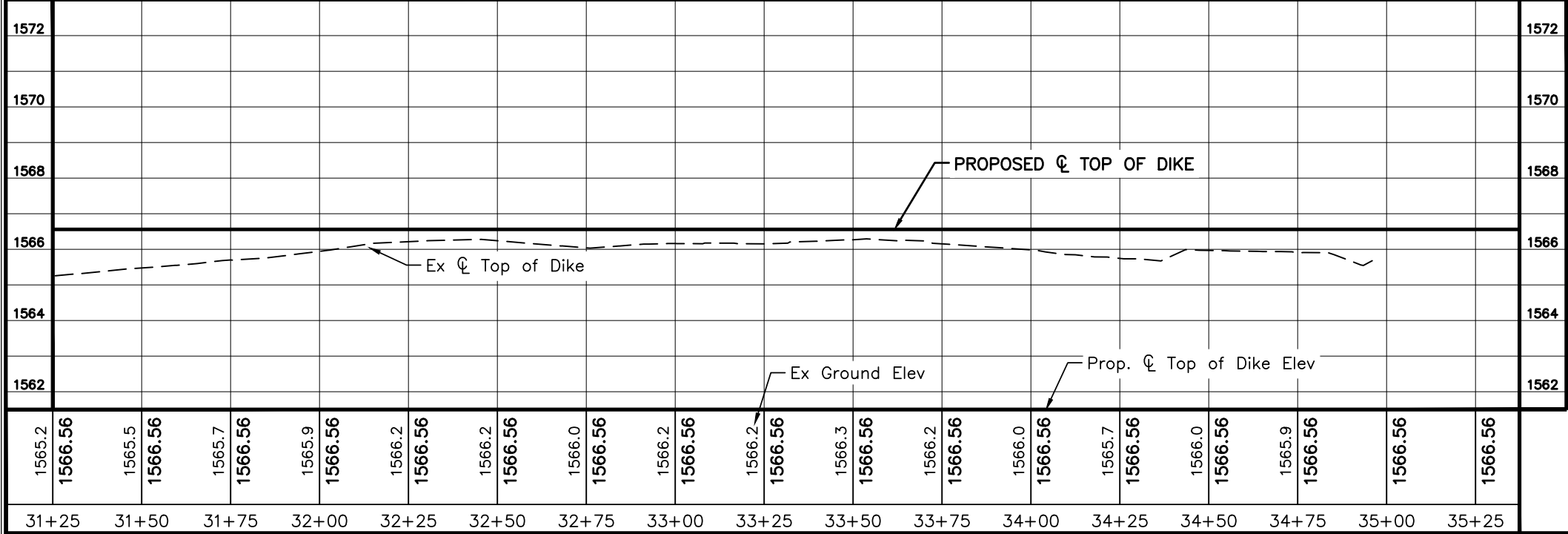
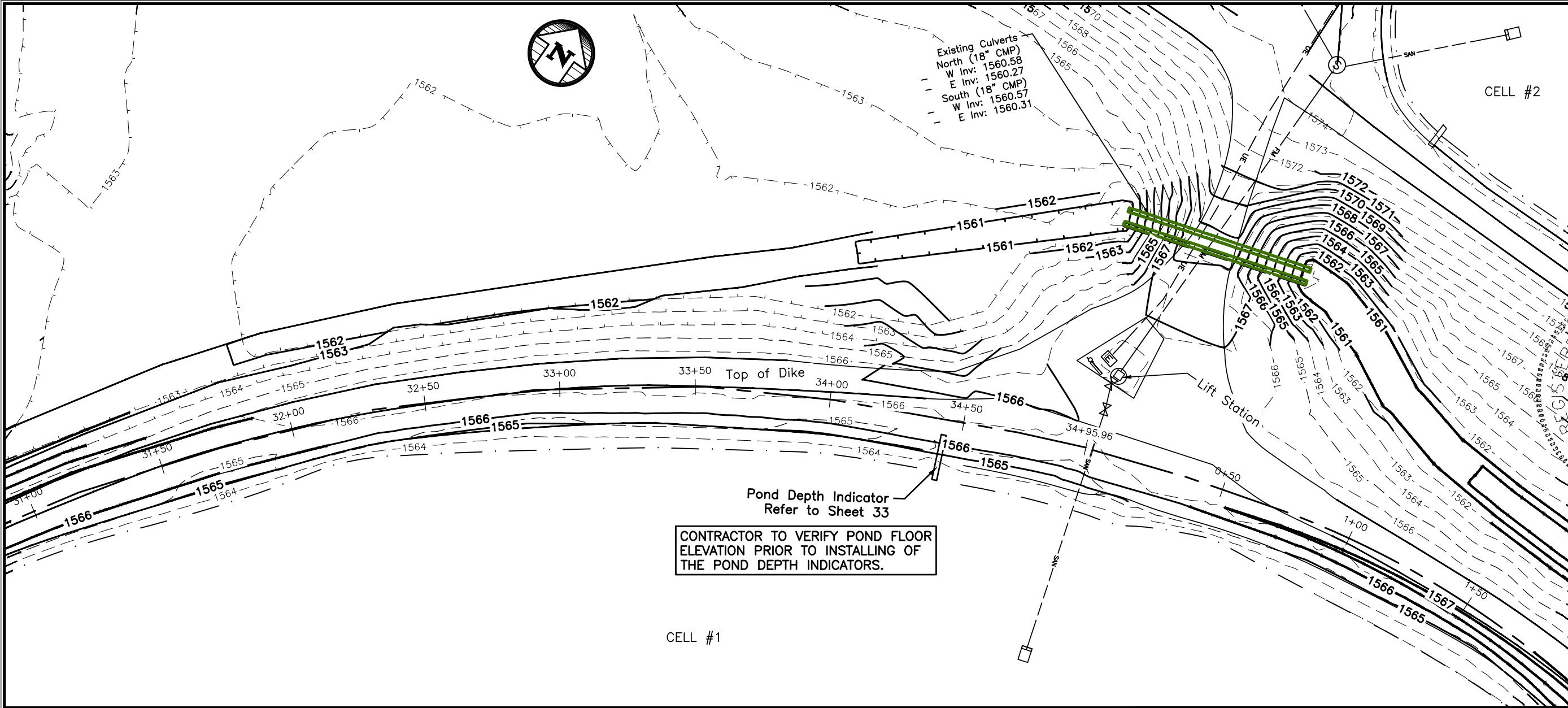
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
Top of Dike Cell #1 Plan & Profile

Sheet Number:	Total Sheets:
24	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Plan and Profile 11x17 (7), 3/19/2026 1:18:26 PM



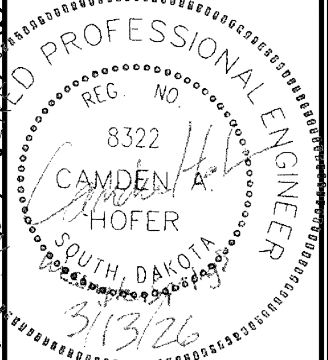
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 40'
Plan Vert. Scale:	1" = 4'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

Wastewater
Treatment
Improvements

Located in:

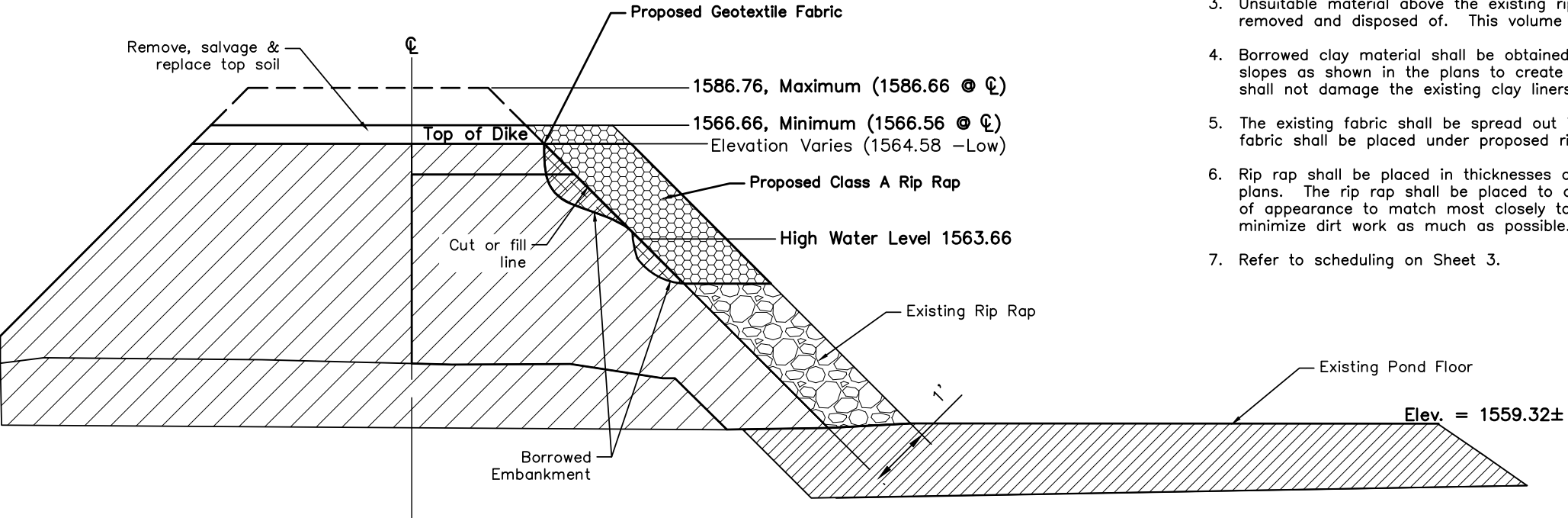
Wessington
Springs,
South Dakota

Sheet Name:

Top of Dike Cell #1
Plan & Profile

Sheet Number:	Total Sheets:
25	39

G:\Files\CAD\Land Project R2 (job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Cover & Details.dwg, Typical Section, 3/19/2026 1:18:29 PM



TYPICAL SECTION
NO SCALE

Notes for Pond Dike Slope Repair:

1. Prior to beginning dike slope repair, the Contractor shall coordinate with the Engineer the timing for discharging wastewater. The Owner will transfer as much wastewater as possible.
2. Any discharge of wastewater must conform to the Owner's Surface Water Discharge Permit.
3. Unsuitable material above the existing rip rap which has eroded shall be removed and disposed of. This volume is not shown in the cross sections.
4. Borrowed clay material shall be obtained and hauled to fill the eroded slopes as shown in the plans to create a uniform slope. The contractor shall not damage the existing clay liners.
5. The existing fabric shall be spread out if in acceptable condition. New fabric shall be placed under proposed rip rap areas.
6. Rip rap shall be placed in thicknesses and to elevations as shown in the plans. The rip rap shall be placed to create semi-uniform slopes and lines of appearance to match most closely to existing eroded slopes and minimize dirt work as much as possible.
7. Refer to scheduling on Sheet 3.

NOTE:

1. Refer to Sheets 27-32 for Cross Sections.

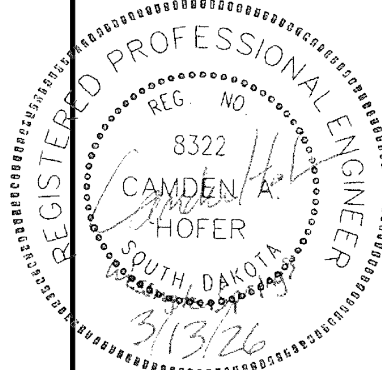
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

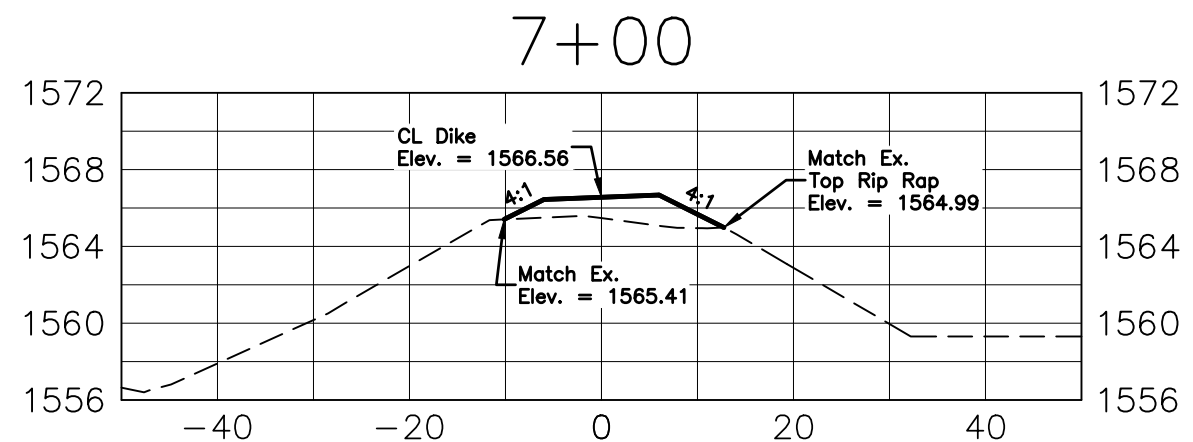
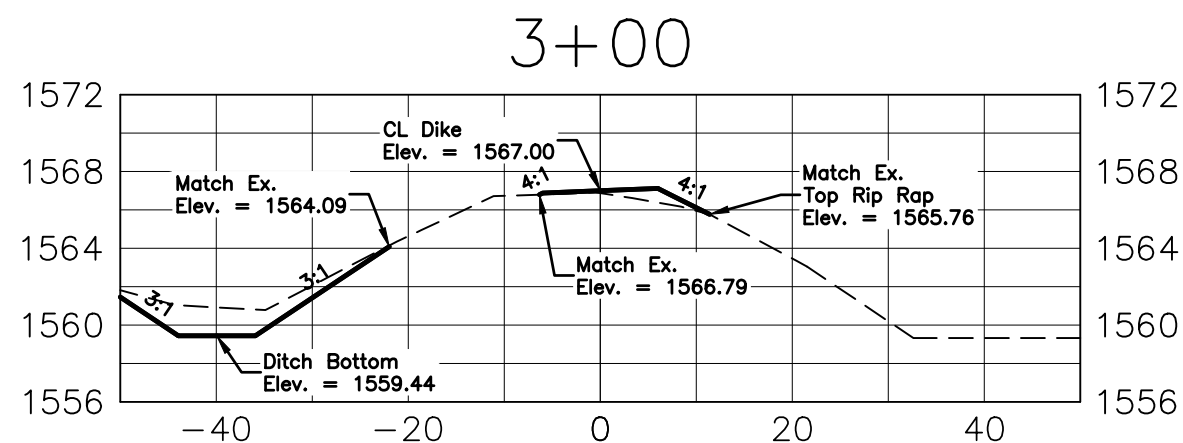
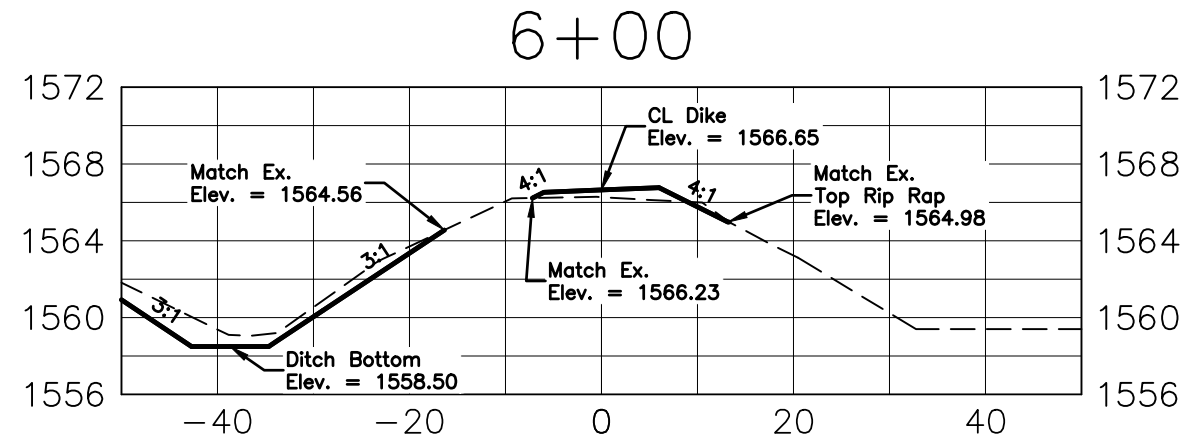
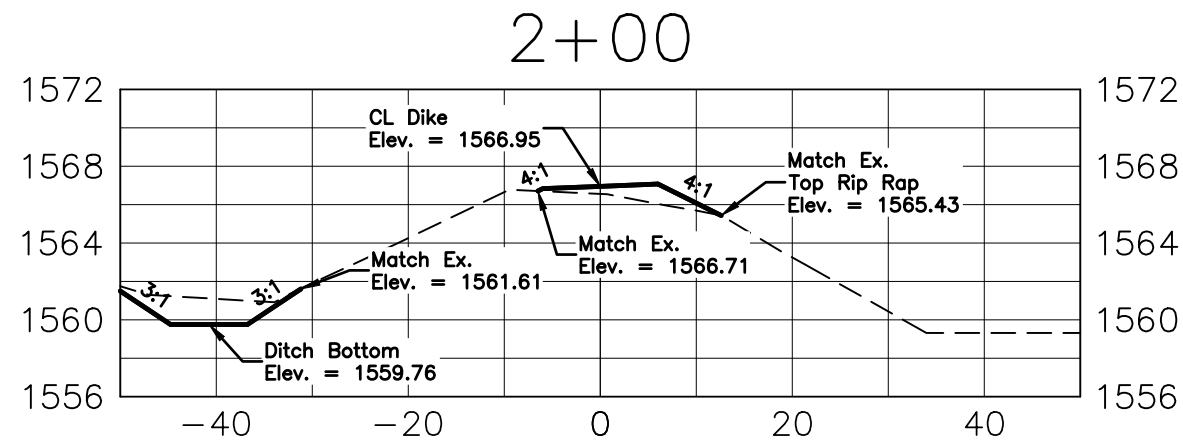
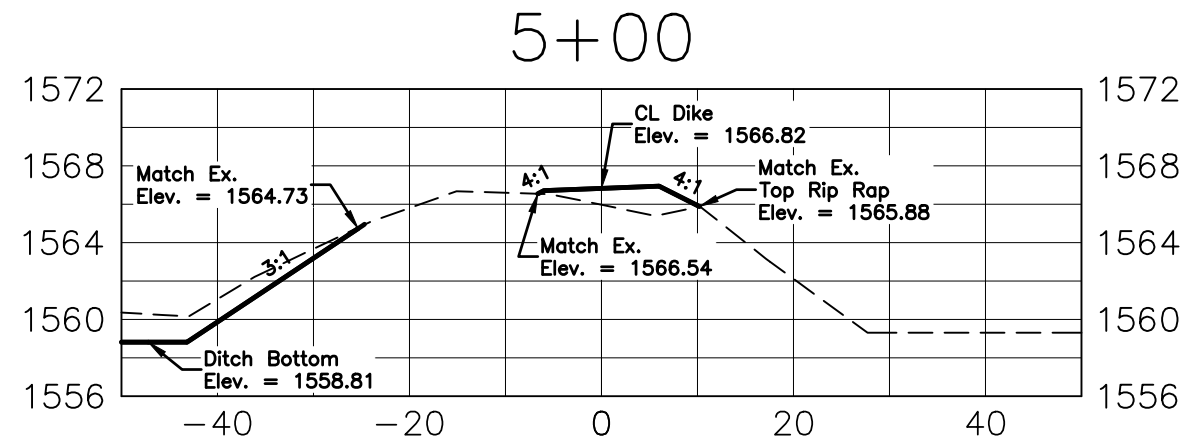
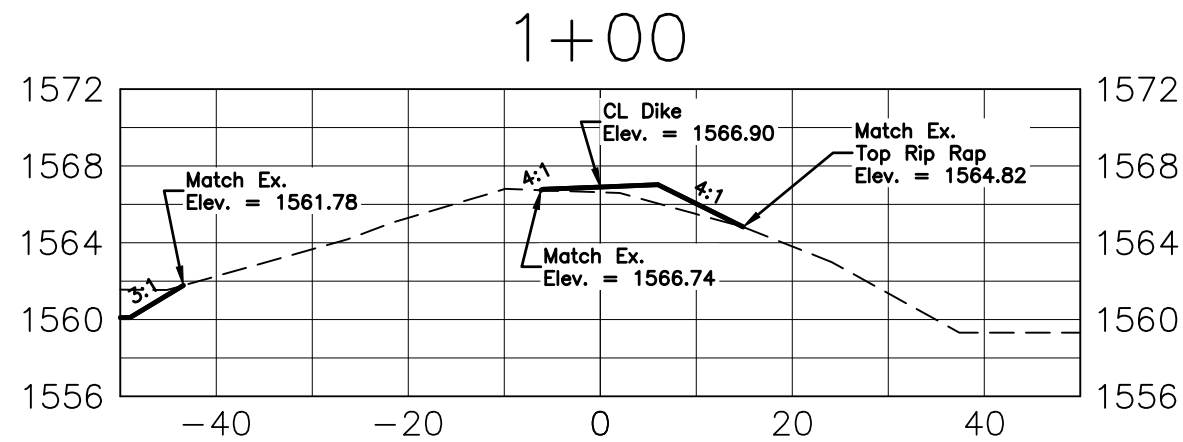
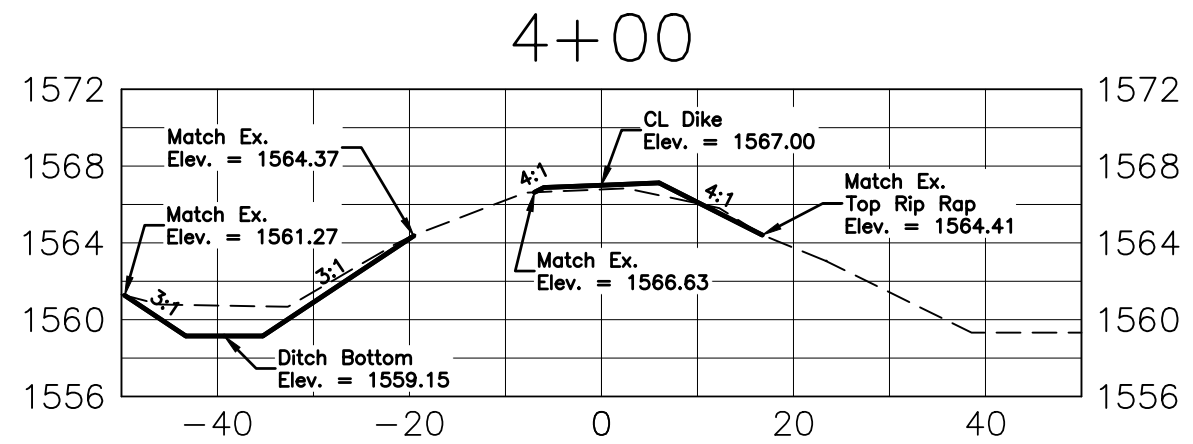
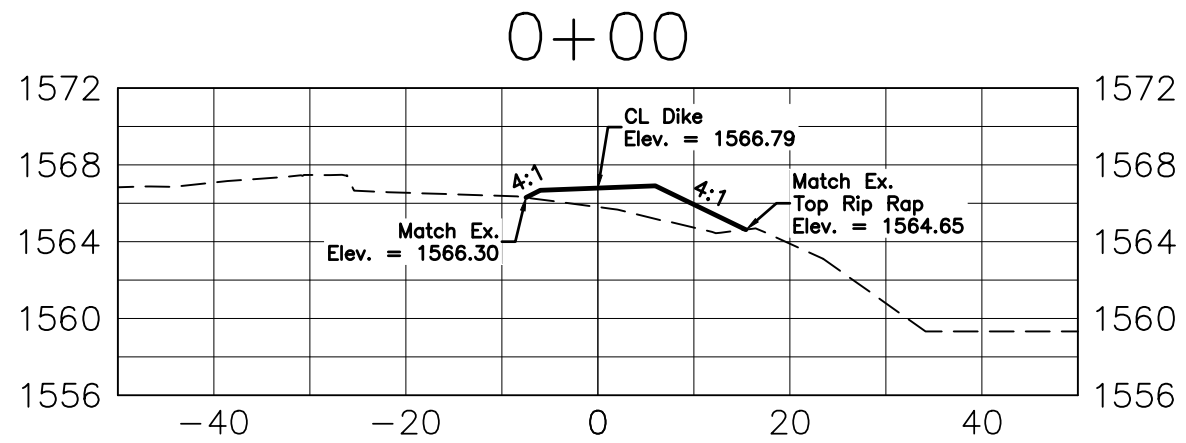
Project Name:
**Wastewater
Treatment
Improvements**

Located in:
**Wessington
Springs,
South Dakota**

Sheet Name:
**Typical
Section**

Sheet Number:	Total Sheets:
26	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs WWT Improv.dwg, Top Dike Cross Sections 11x17, 3/19/2026 1:18:33 PM



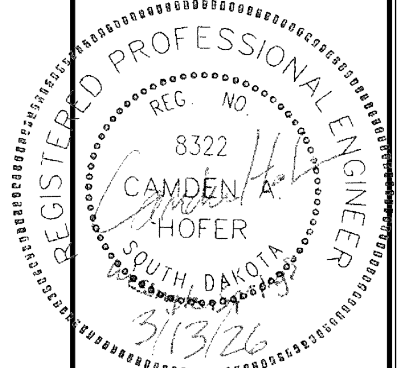
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
**Wastewater
Treatment
Improvements**

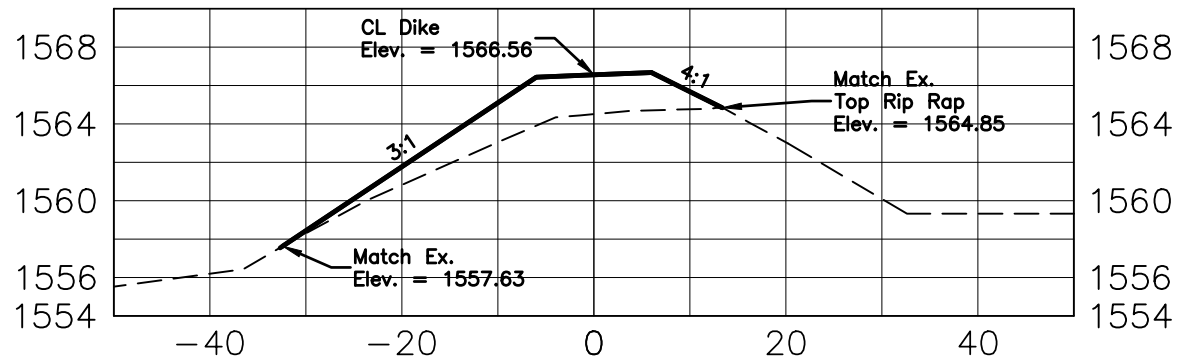
Located in:
**Wessington
Springs,
South Dakota**

Sheet Name:
**Top Dike Cell #1
Cross Sections**

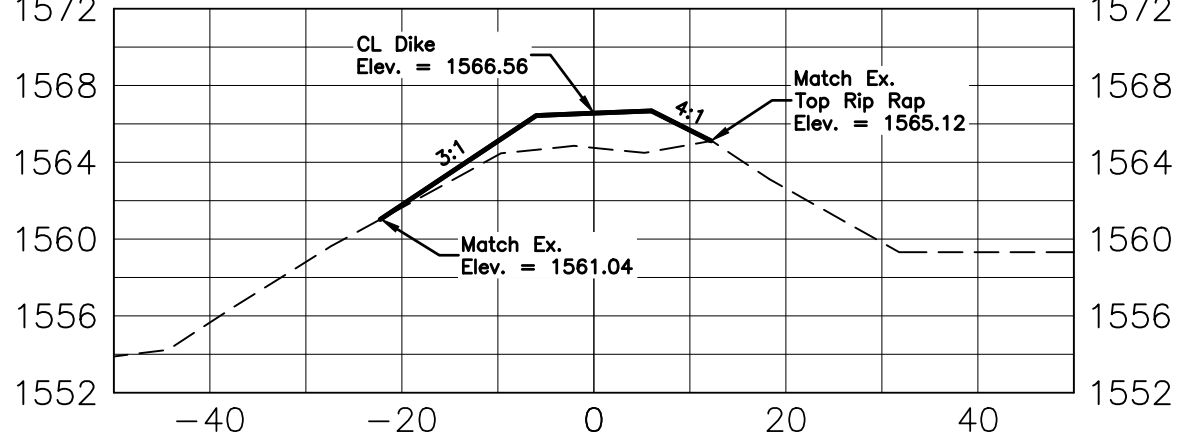
Sheet Number:	Total Sheets:
27	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Cross Sections 11x17 (2), 3/19/2026 1:18:38 PM

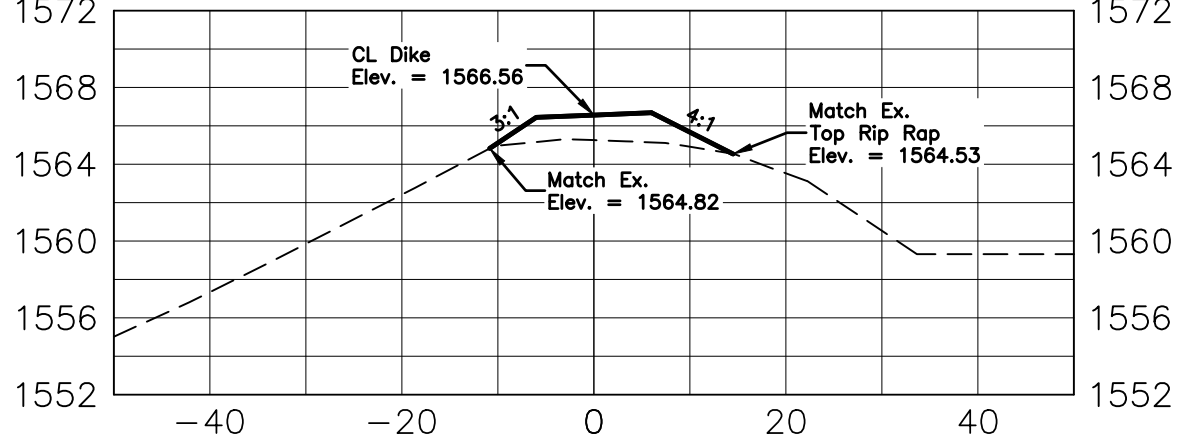
8+00



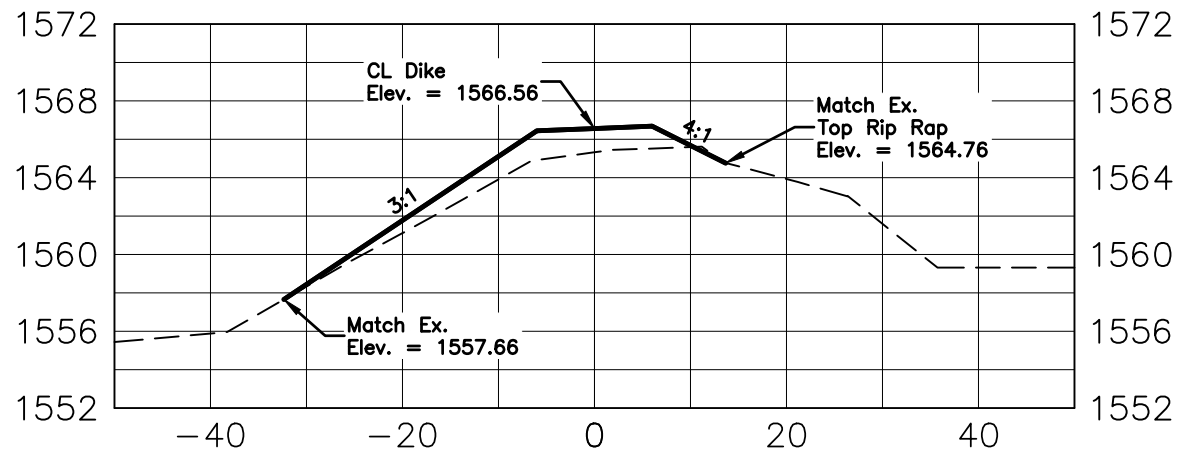
9+00



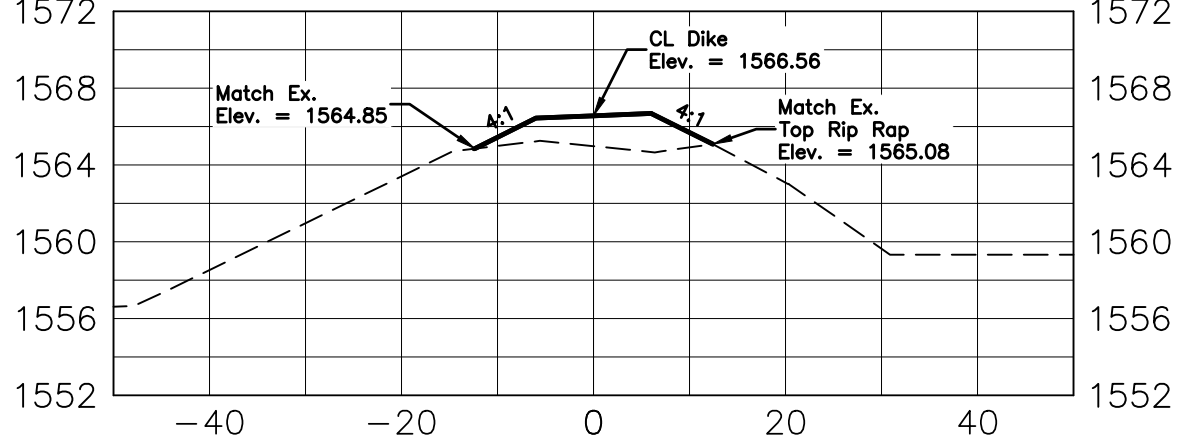
10+00



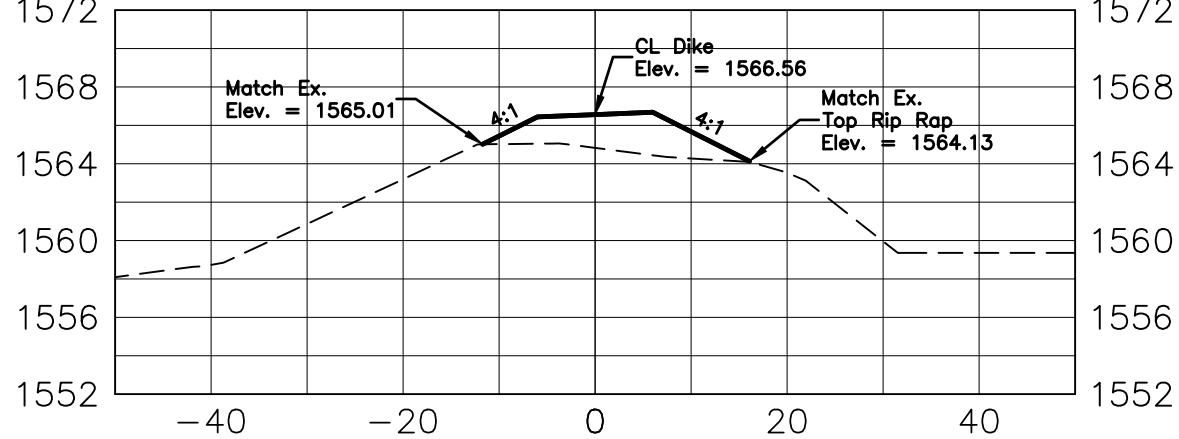
11+00



12+00



13+00



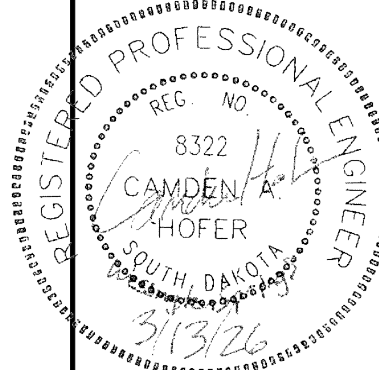
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

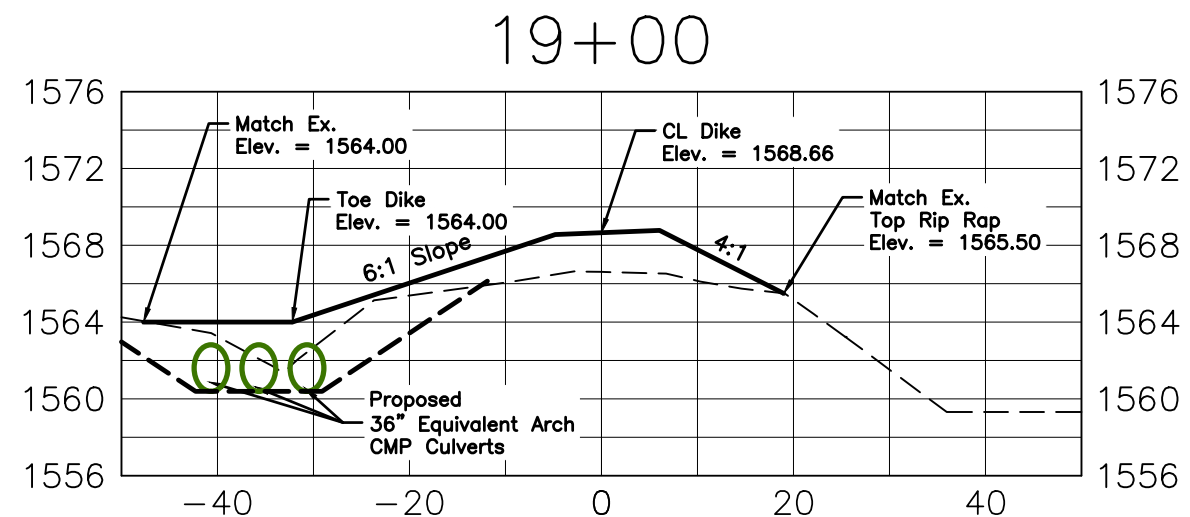
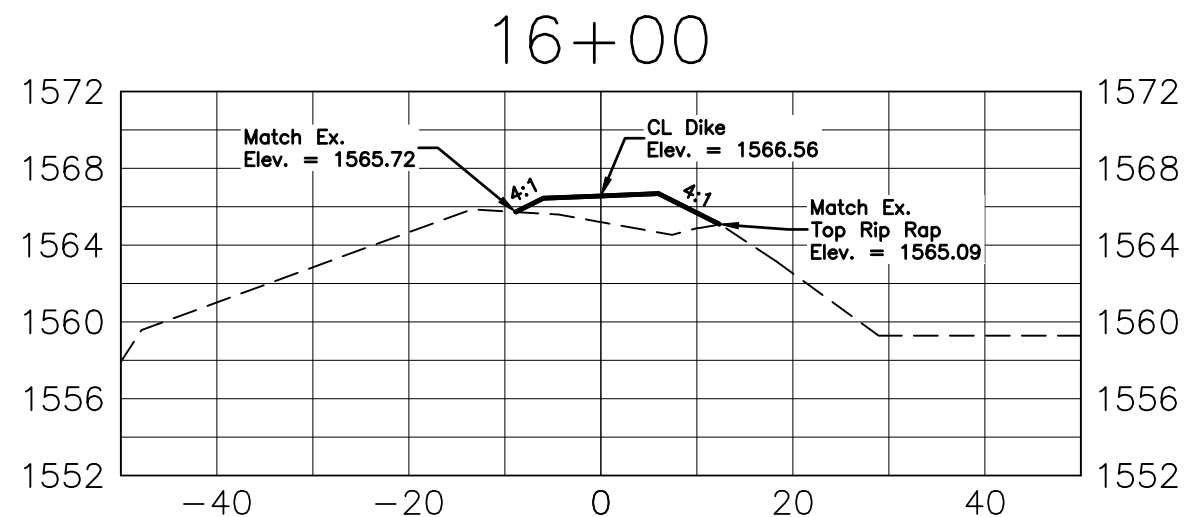
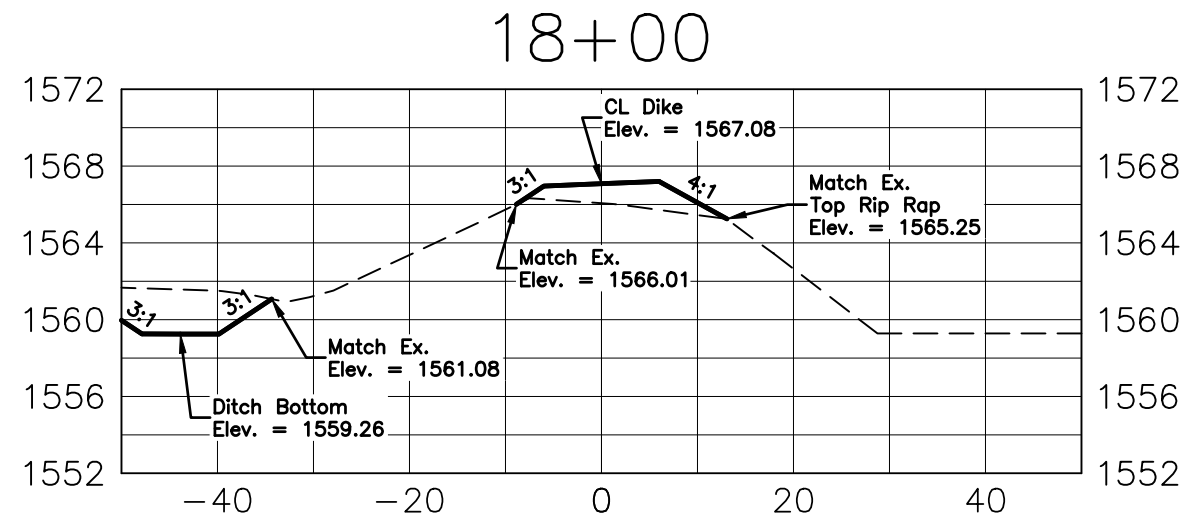
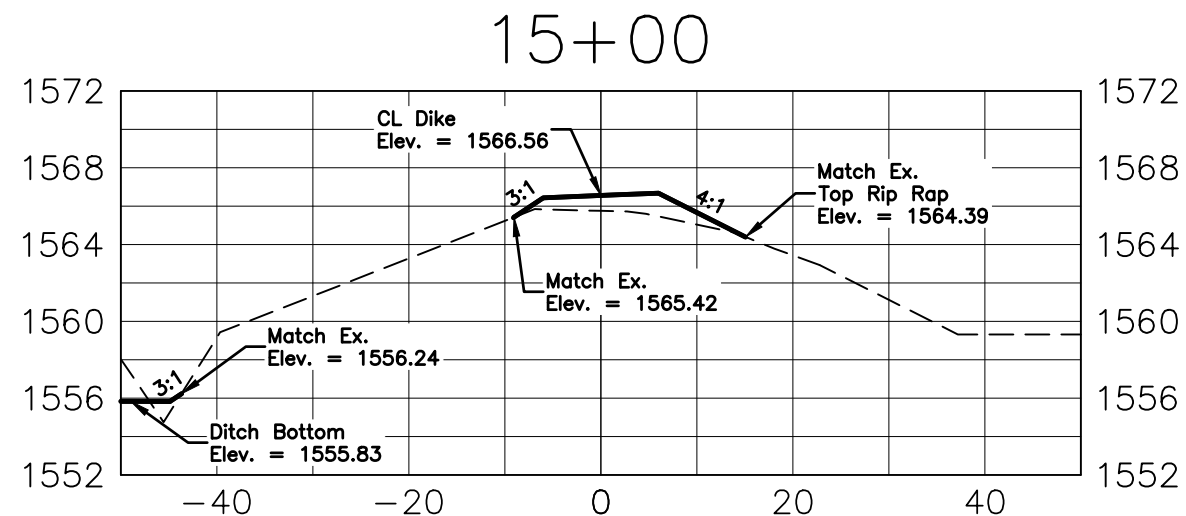
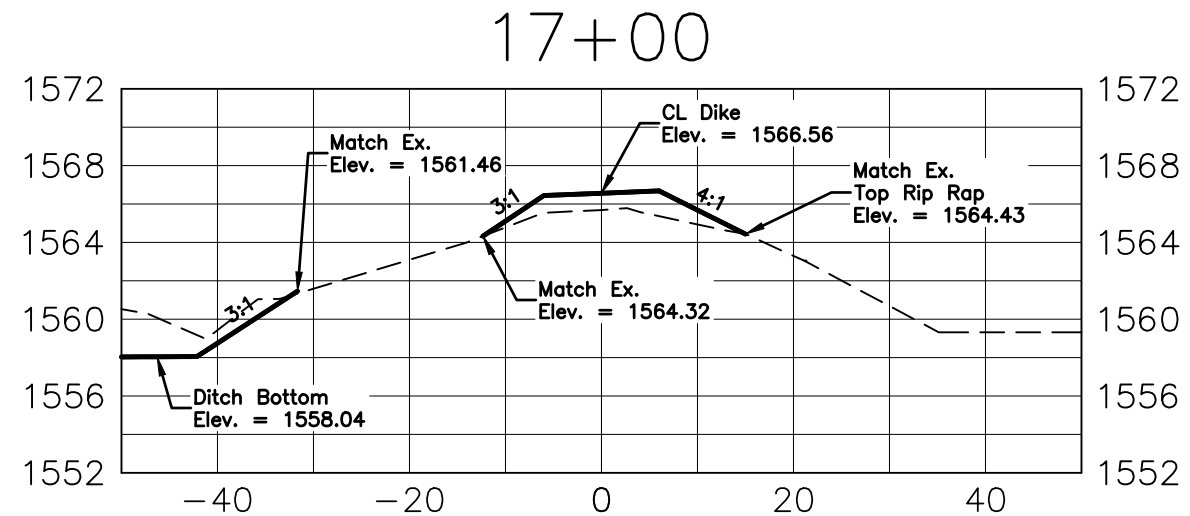
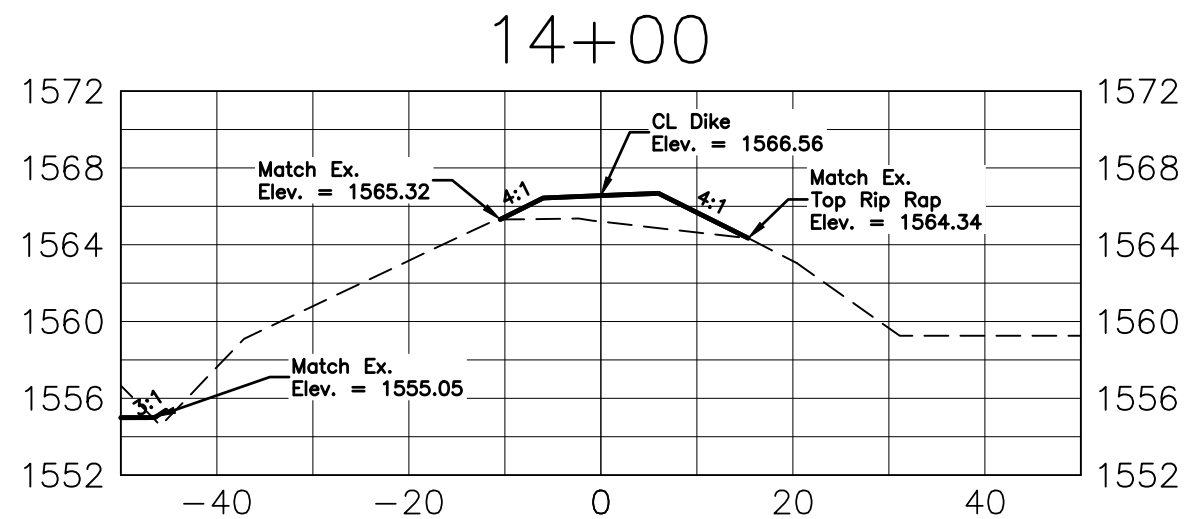
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
Top Dike Cell #1 Cross Sections

Sheet Number:	Total Sheets:
28	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs WWT Improv.dwg, Top Dike Cross Sections 11x17 (3), 3/19/2026 1:18:43 PM



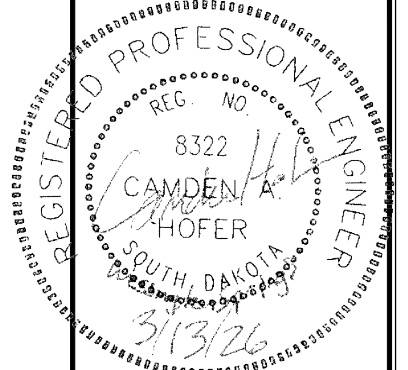
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

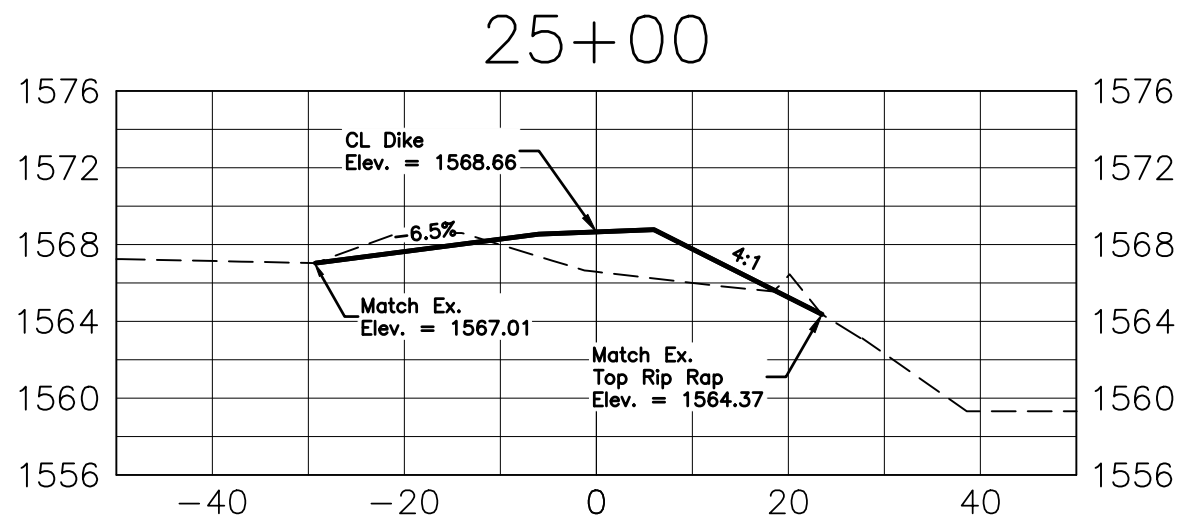
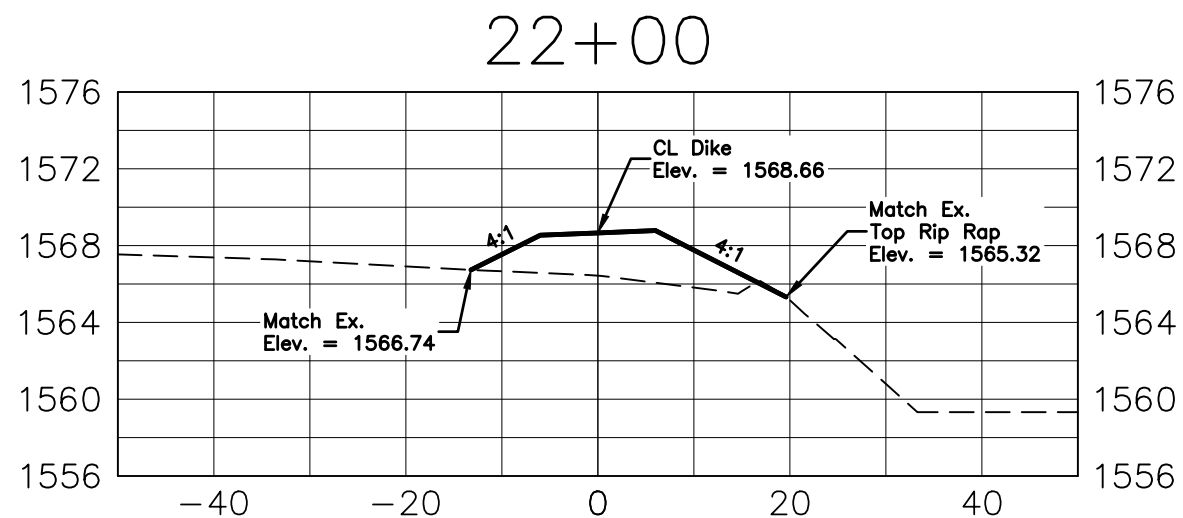
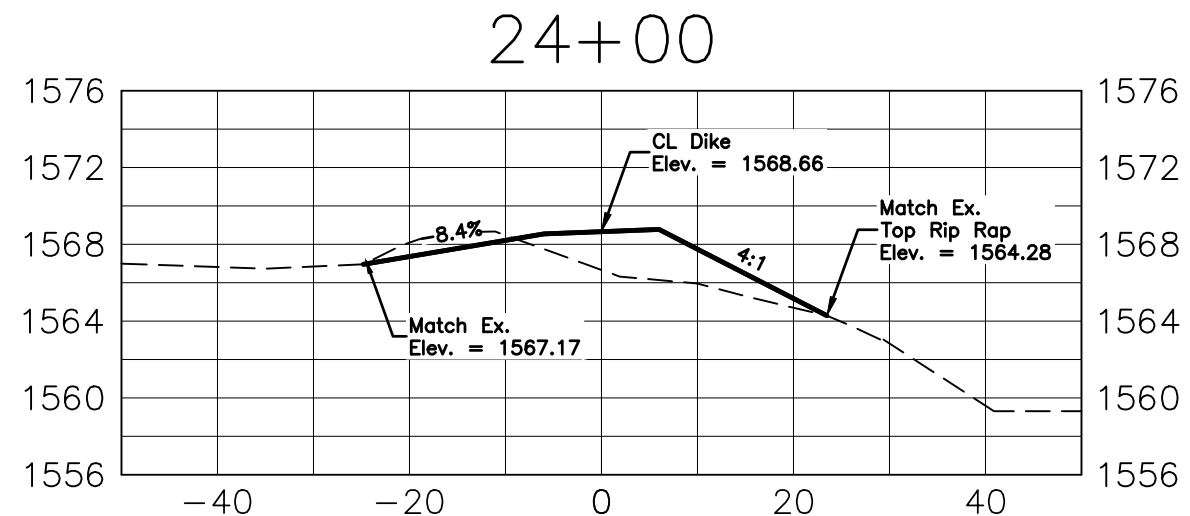
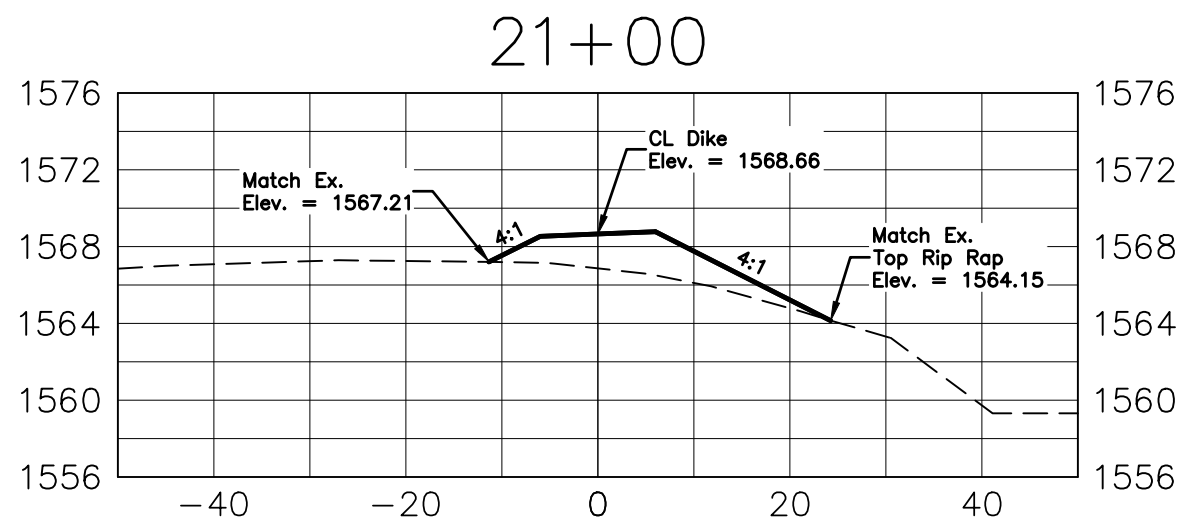
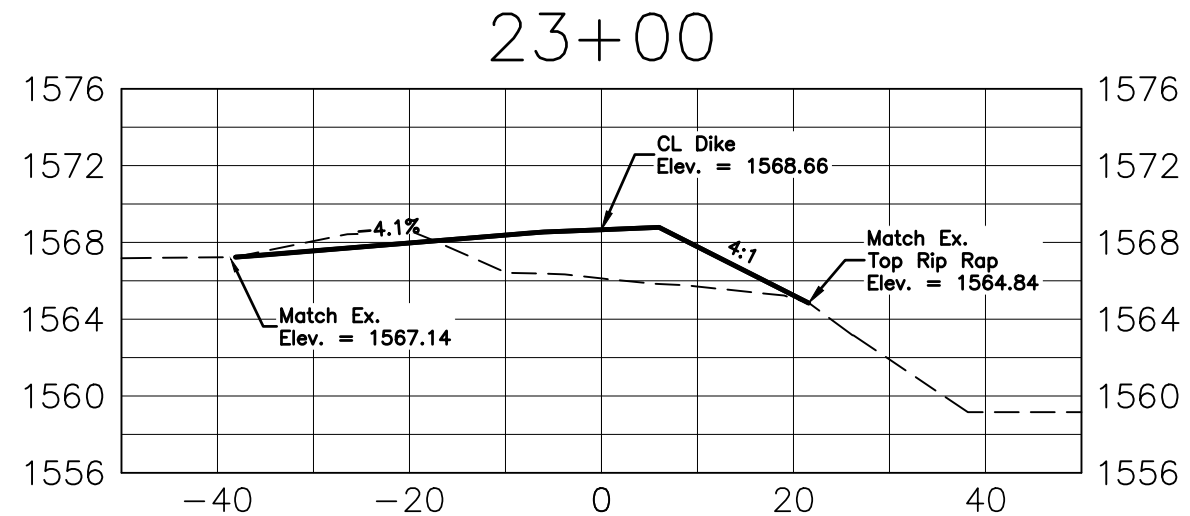
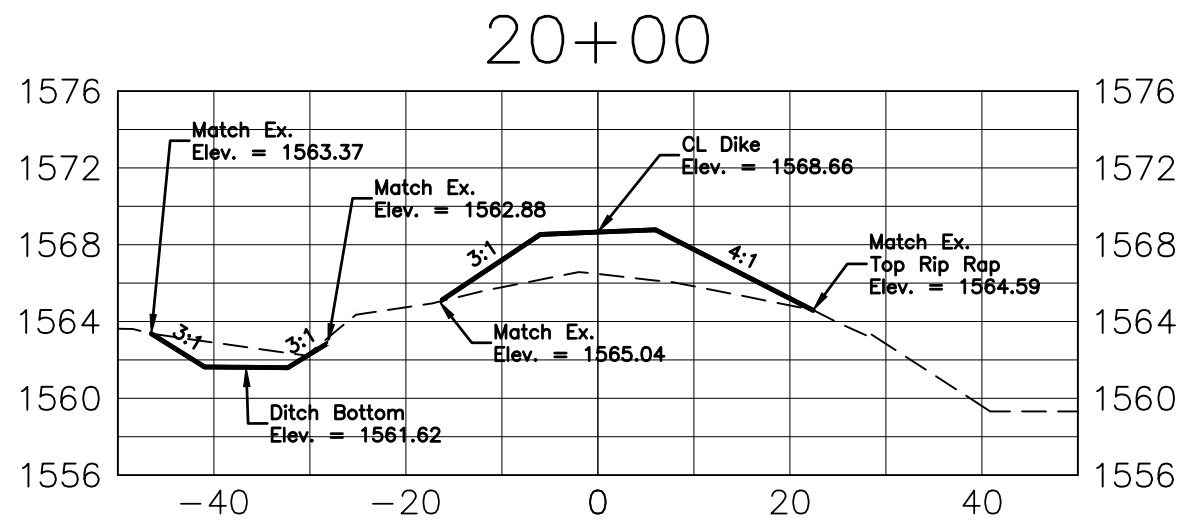
Project Name:
Wastewater Treatment Improvements

Located in:
Wessington Springs, South Dakota

Sheet Name:
Top Dike Cell #1 Cross Sections

Sheet Number:	Total Sheets:
29	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Cross Sections 11x17 (A), 3/19/2026 1:18:48 PM



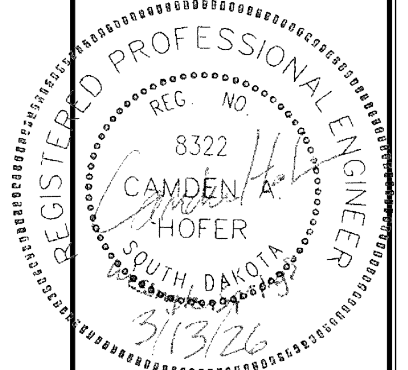
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
**Wastewater
Treatment
Improvements**

Located in:
**Wessington
Springs,
South Dakota**

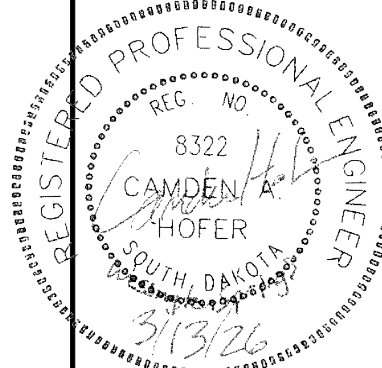
Sheet Name:
**Top Dike Cell #1
Cross Sections**

Sheet Number:	Total Sheets:
30	39

G:\Files\CAD\Land Project R2 (Job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Cross Sections 11x17 (5), 3/19/2026 1:18:53 PM

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



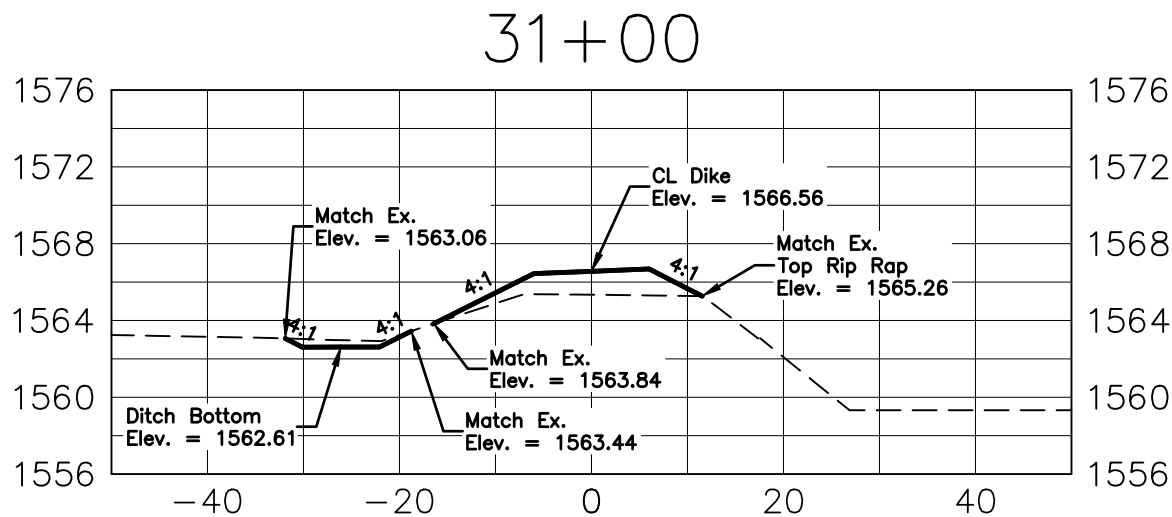
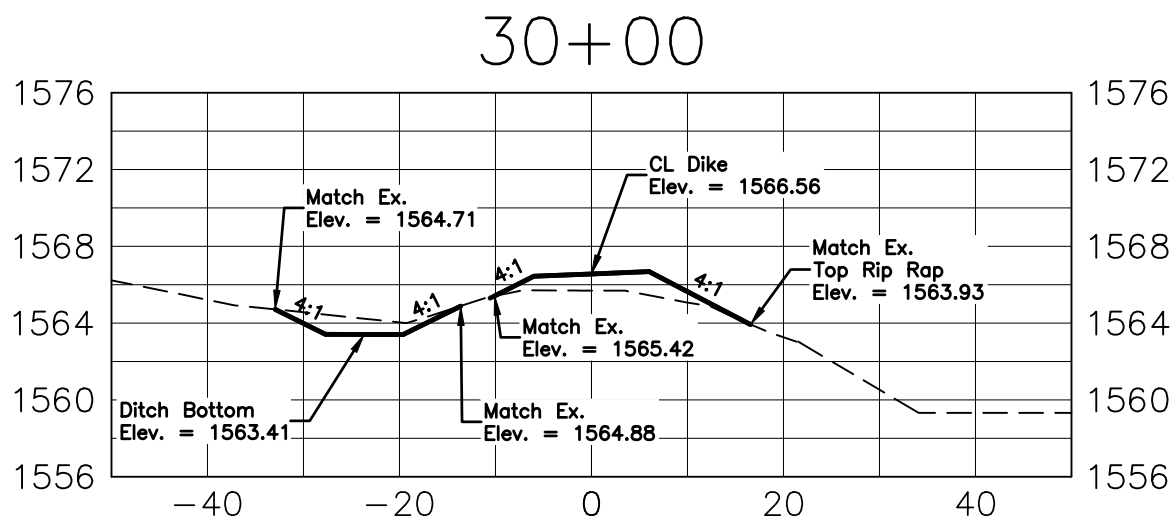
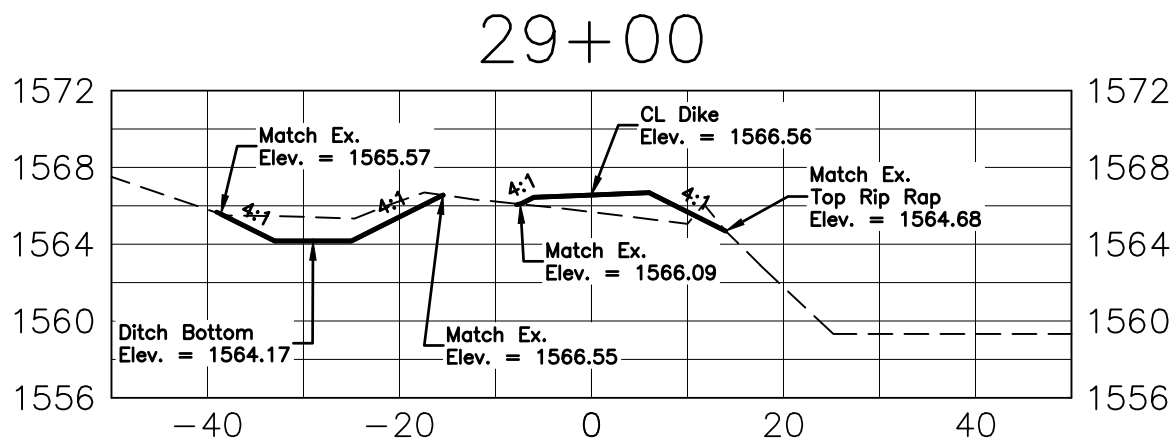
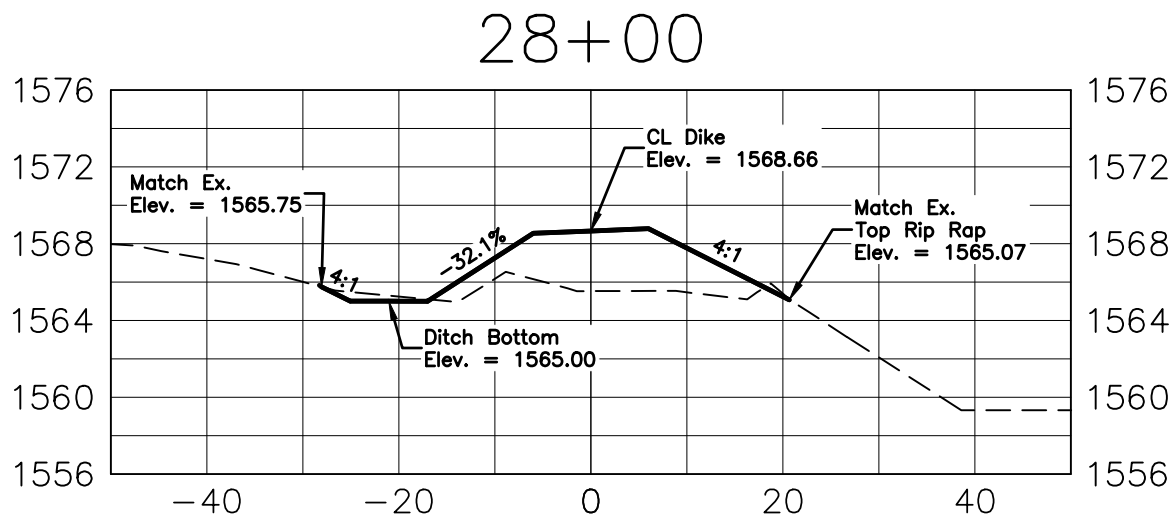
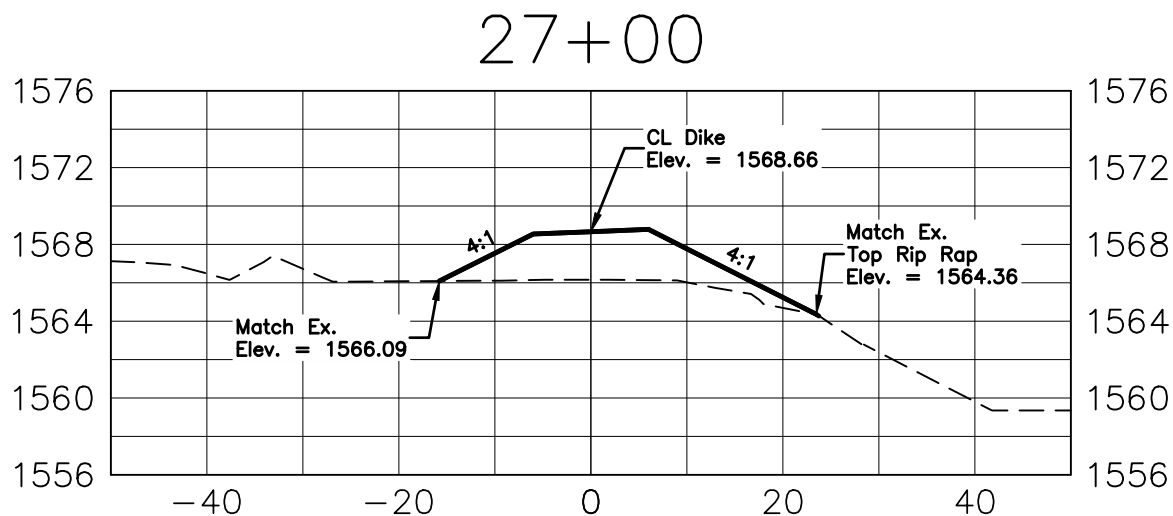
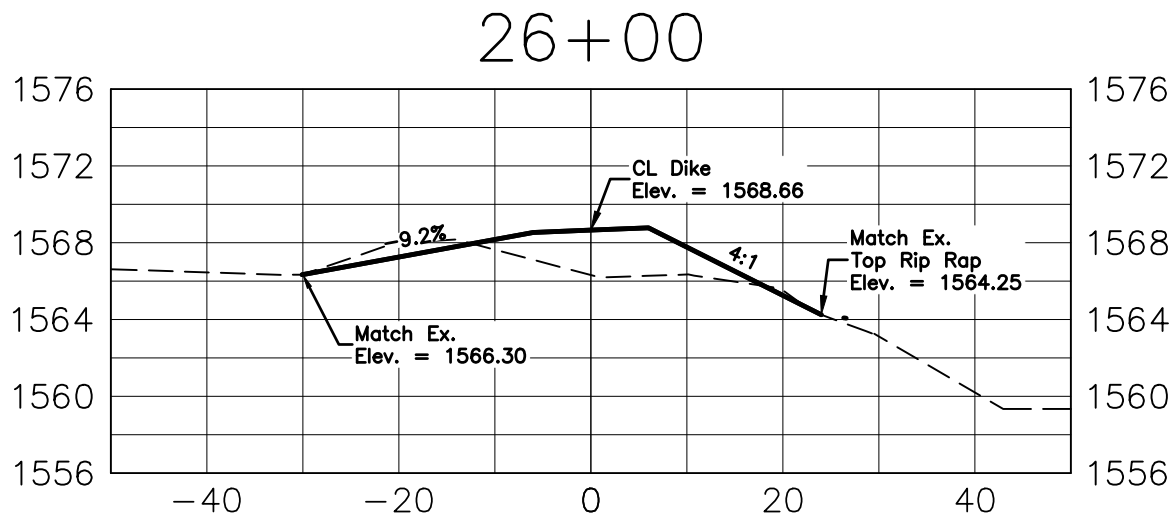
Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
Wastewater
Treatment
Improvements

Located in:
Wessington
Springs,
South Dakota

Sheet Name:
Top Dike Cell #1
Cross Sections

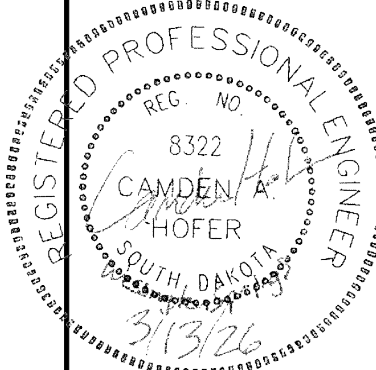
Sheet Number:	Total Sheets:
31	39



G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons TOPO\16790-Wessington Springs WWT Improv.dwg, Top Dike Cross Sections 11x17 (6), 3/19/2026 1:18:58 PM

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	1" = 20'
Plan Vert. Scale:	1" = 10'
Drawn By:	TJH
Checked By:	CAH
Date:	01/29/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

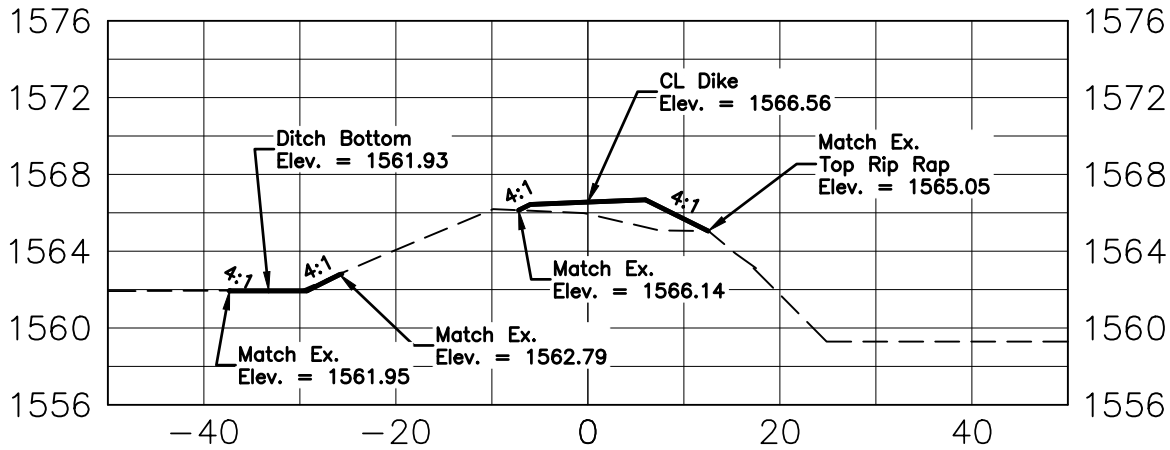
Project Name:
Wastewater
Treatment
Improvements

Located in:
Wessington
Springs,
South Dakota

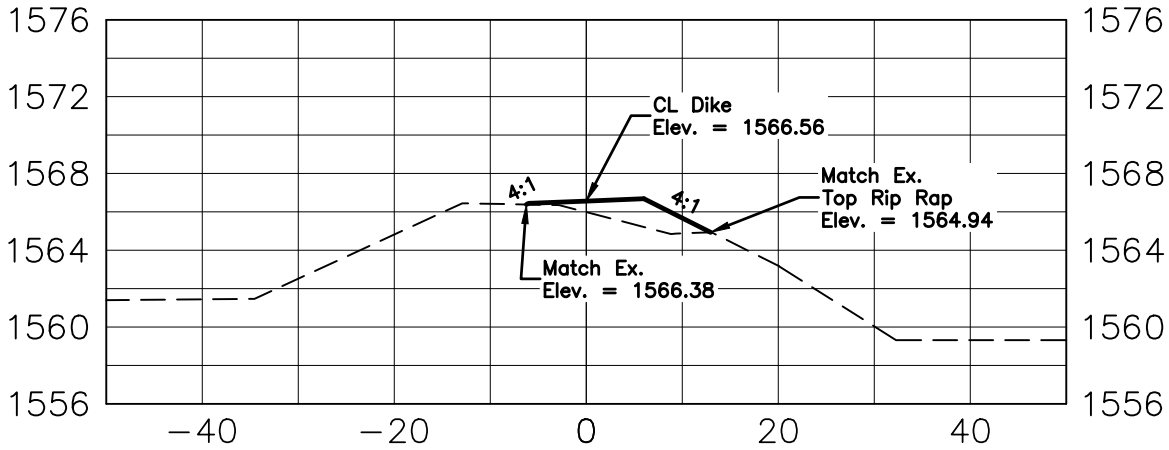
Sheet Name:
Top Dike Cell #1
Cross Sections

Sheet Number:	Total Sheets:
32	39

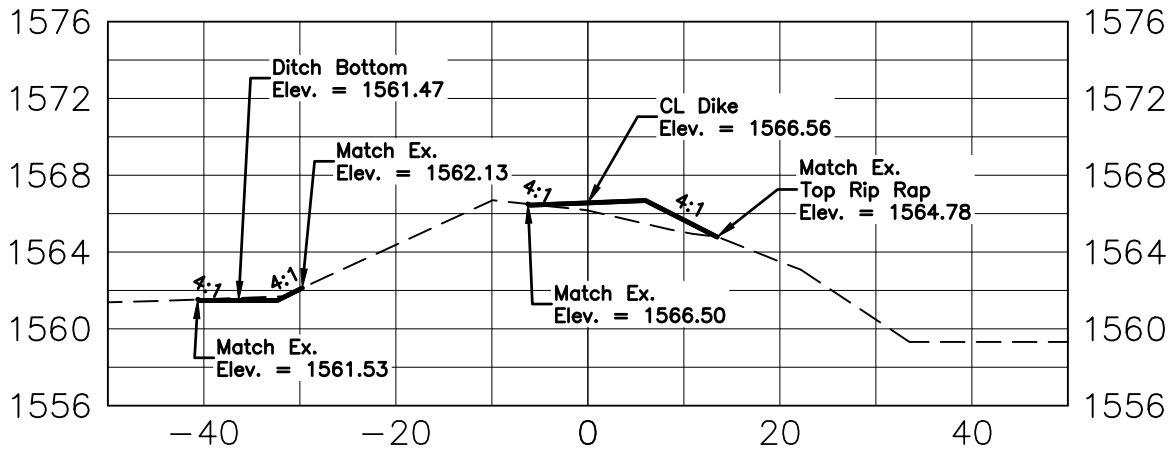
32+00



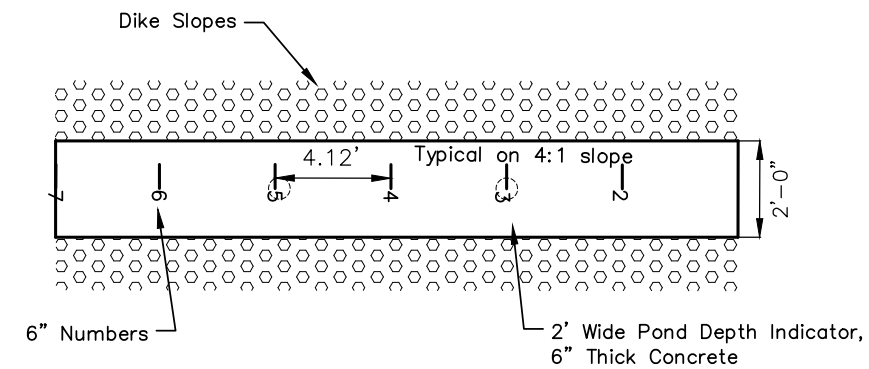
34+00



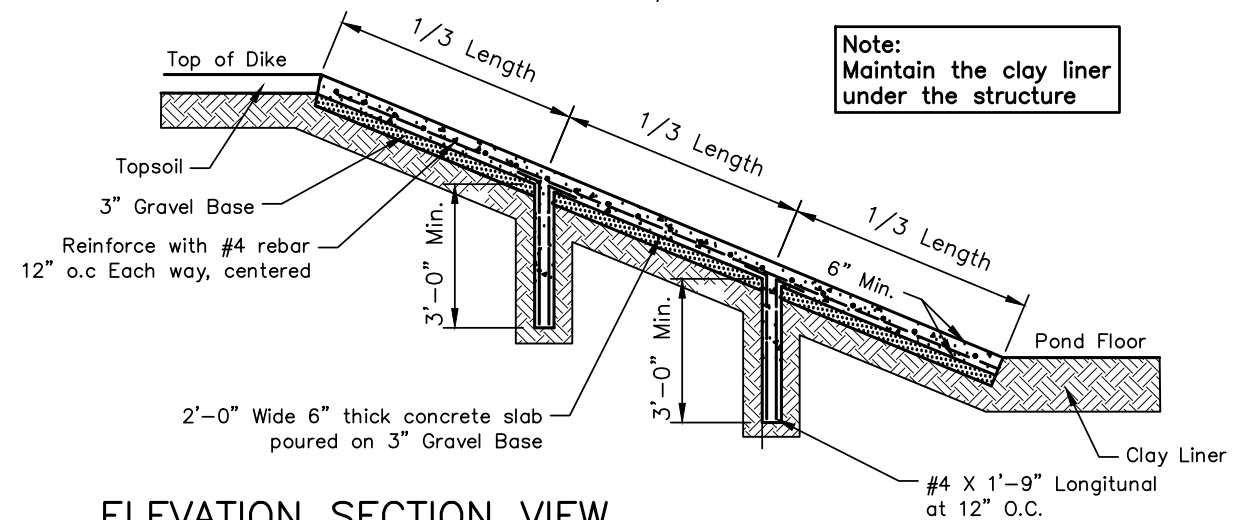
33+00



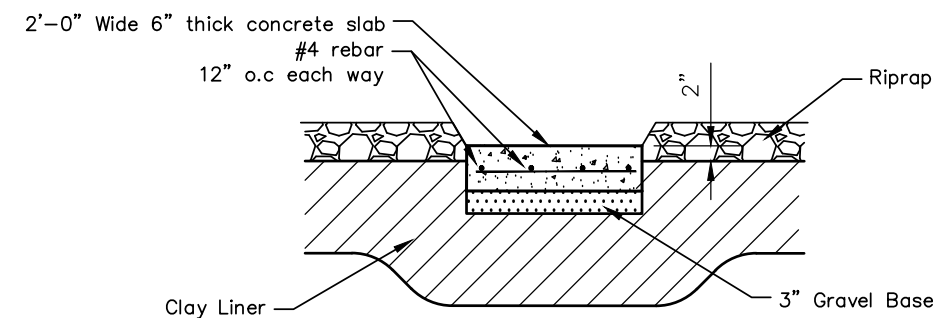
Note: The compacted clay liner shall be maintained under and around all inner pond structures.



Scale $1/4" = 1'$



Scale $1/4" = 1'$



Scale $1/2'' = 1'$

Technical drawing illustrating the installation of a wall anchor (eye bolt) into an existing structure.

Plan View (Left):

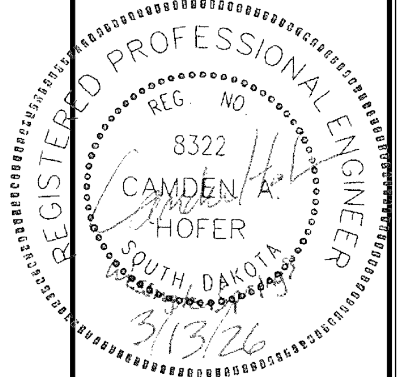
- Shows a grid of 4 vertical and 3 horizontal lines.
- Dimensions: 1'-0" (vertical), 1'-0" (horizontal), 1 1/4" (horizontal offset), 1/8" (horizontal offset).
- Callout: "Existing Structure" points to the grid.
- Callout: "Stainless Steel eye bolt with washer & nut" points to the bolt location.

Cross-Section View (Right):

- Shows a vertical section of the wall.
- Dimensions: 4" Embedded (depth of anchor), 1/2" Gap (space between anchor and wall), 1" (width of anchor).
- Callouts:
 - "1/2" x 5 3/4" Stainless Steel eye bolt with hex nut."
 - "1/2" x 2 3/4" Stainless Steel eye bolt. After installation threads shall be punched to prevent removal"

Scale 1" = 1'

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.

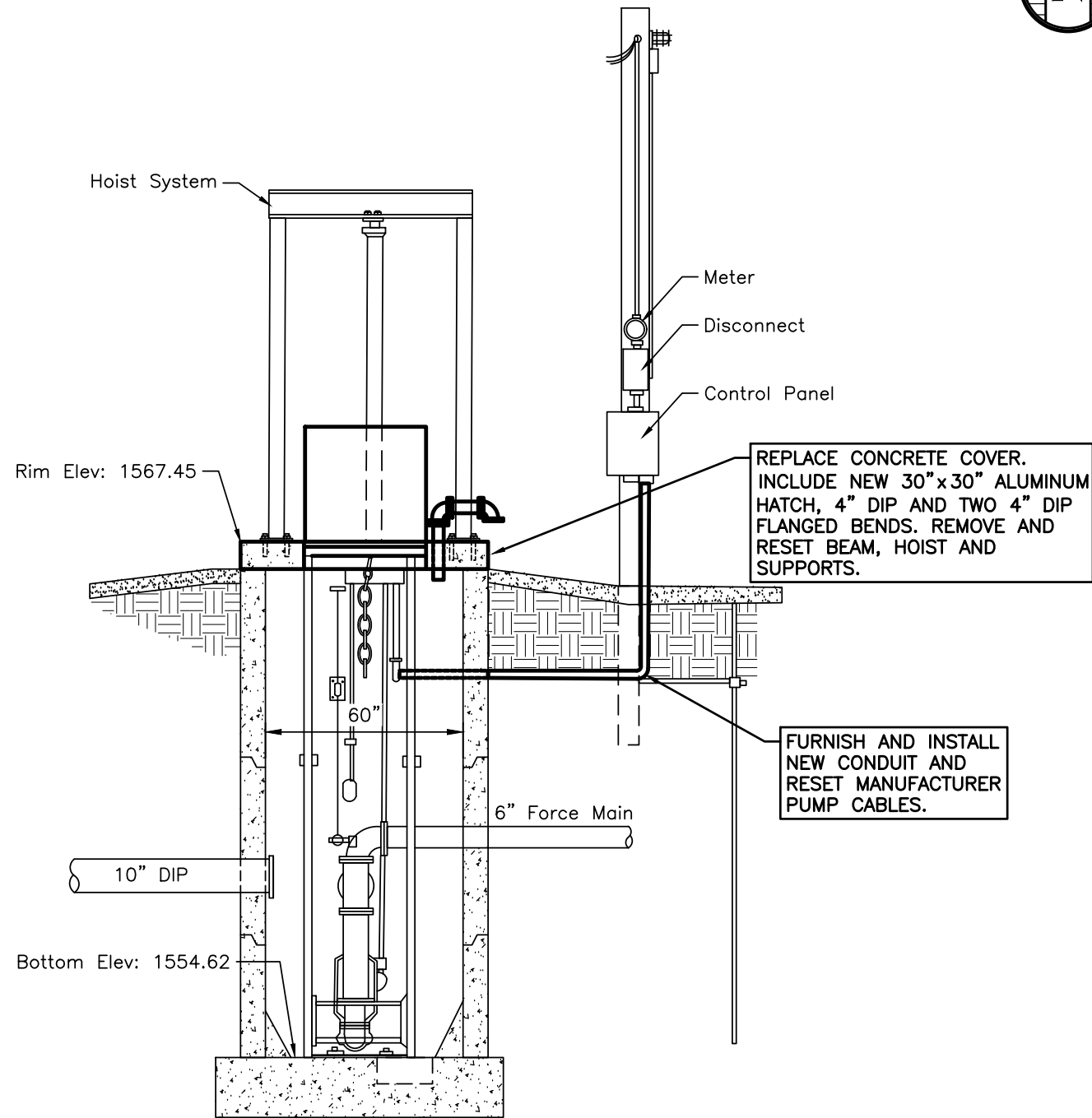


Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWI

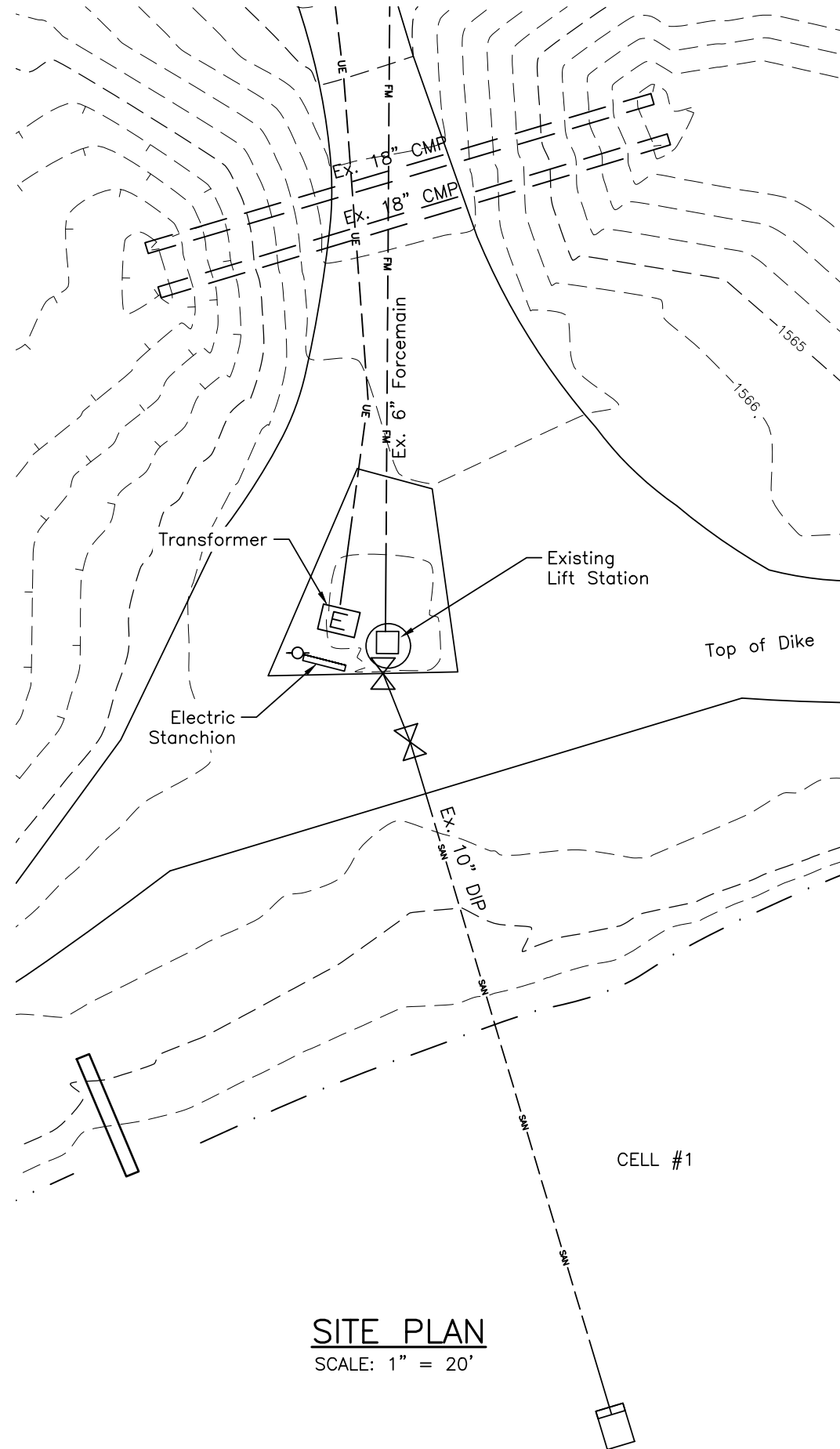
Located in:
Wessington
Springs,
South Dakota

39

G:\Files\CAD\Land Project R2 (job #'s 16000-)\16790-Wessington Springs WWT Improv.dwg, Lift Station 11x17, 3/19/2026 1:19:02 PM



LIFT STATION DETAIL
SCALE: 1/4" = 1'



SITE PLAN
SCALE: 1" = 20'

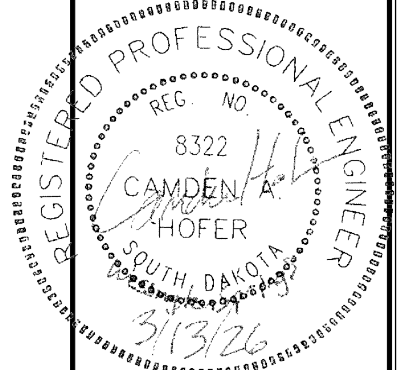
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



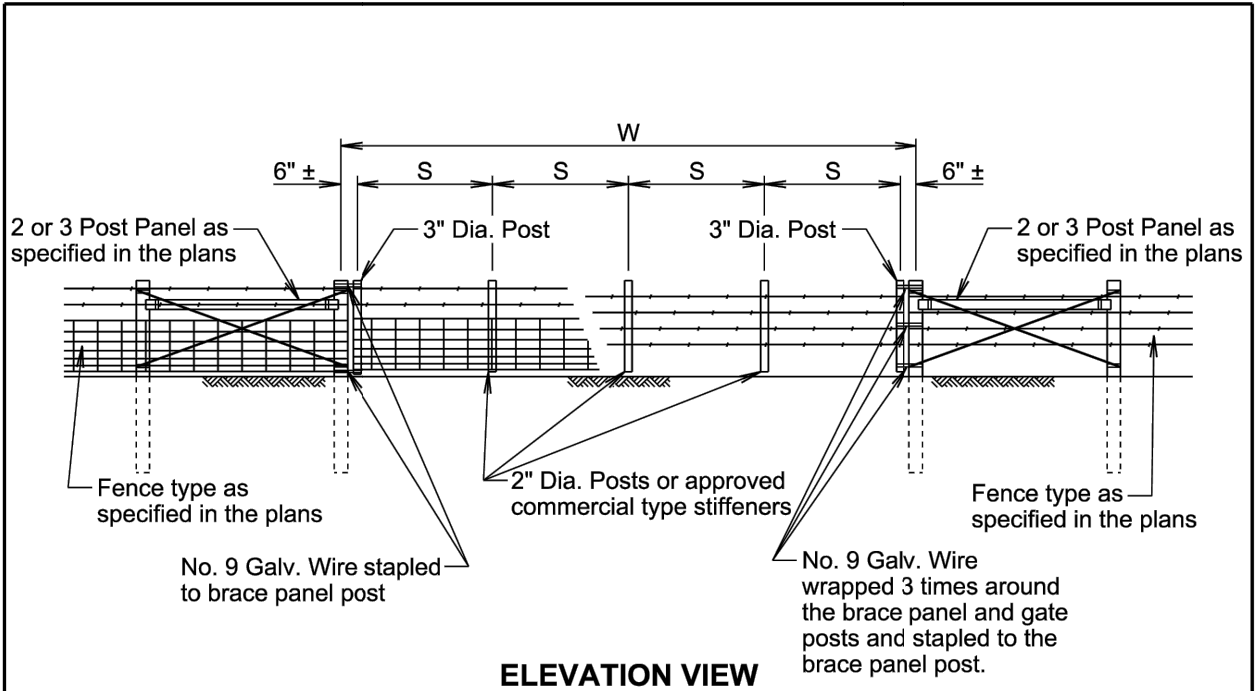
Plan Horiz. Scale:	1" = 60'
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:
Wastewater Treatment Improvements
Located in:
Wessington Springs, South Dakota

Sheet Name:
Cell 3 Plan View

Sheet Number:	Total Sheets:
34	39

G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Cover & Details.dwg, Fence Details, 3/19/2026 1:19:04 PM



W Gate Width (Ft.)	S Post Spacing
16	3 @ 5'-0" ±
20	4 @ 4'-9" ±
24	4 @ 5'-9" ±
30	5 @ 5'-10" ±
40	6 @ 6'-6" ±

GENERAL NOTES:

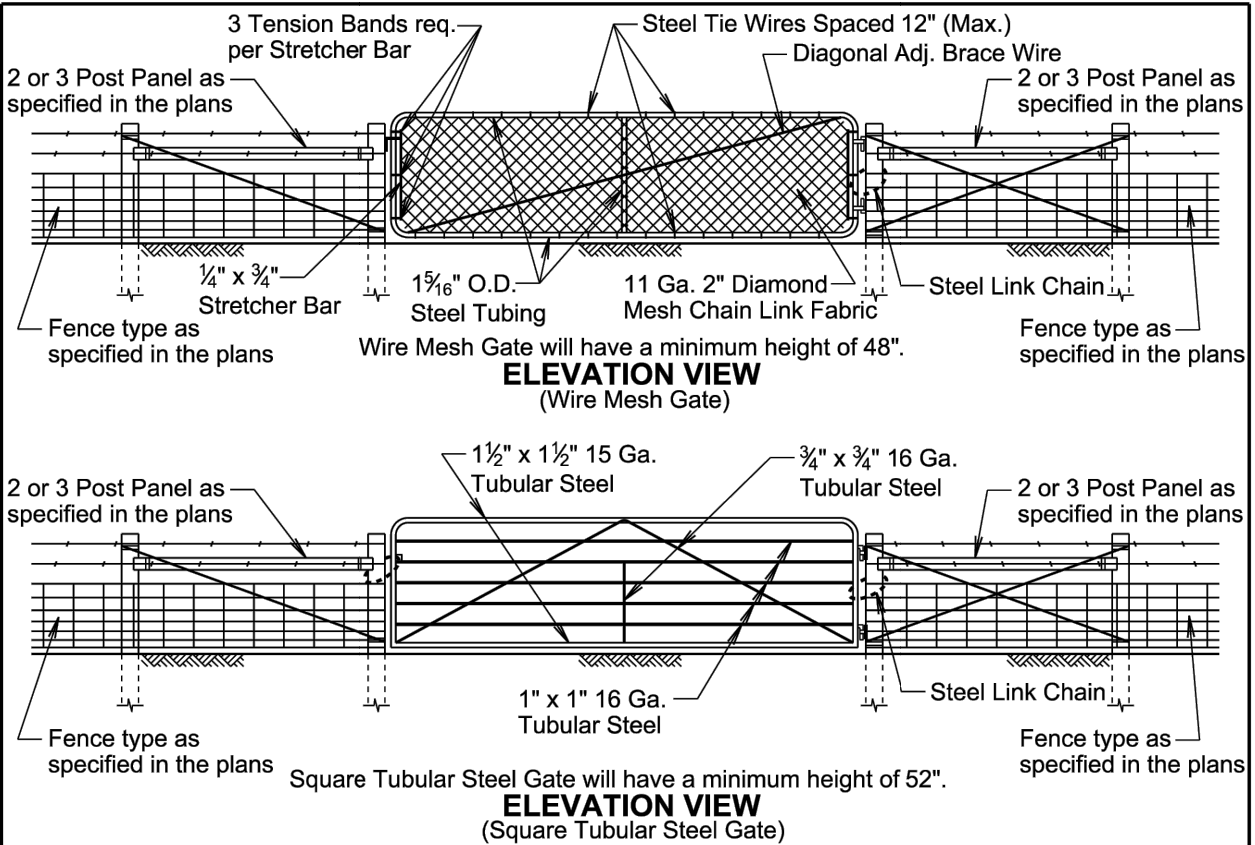
Creosote treatment of the gate posts will not be accepted.

The type of fencing in the gate will be of the same type as specified for the adjacent Right-of-Way fence.

All costs for furnishing and constructing the wire gate(s) will be incidental to the contract unit price per foot for the respective Right-of-Way fence contract item.

June 26, 2019

Published Date: 2026	S D D O T	WIRE GATES	PLATE NUMBER 620.20
			Sheet 1 of 1



GENERAL NOTES:

Only single tubular frame gates are shown on this standard plate. If double tubular frame gates are specified, the gates will be of the same type and materials as shown above. Double tubular gates will swing toward the middle of the opening and will be secured by a chain, latch, or other suitable hardware.

Gate hardware will conform to the specific type of gate installed. The gate and gate hardware will either be painted or galvanized. The paint on the gates and hardware will be subject to approval by the Engineer.

The Steel Link Chain will be a minimum of 1/4", 4' long, rust resistant, and have electrically welded links. The chain will be wrapped around the gate hinge post and gate frame and the ends of the chain will be welded together with enough slack in the chain to provide free operation of the gate.

June 26, 2019

Published Date: 2026	S D D O T	TUBULAR FRAME GATES	PLATE NUMBER 620.21
			Sheet 1 of 1

SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

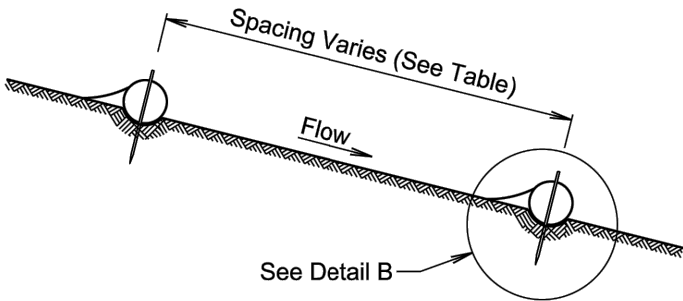
**Fence & Gate
Details**

Sheet Number: Total Sheets:

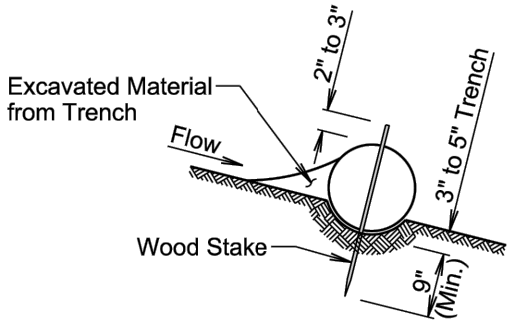
35

39

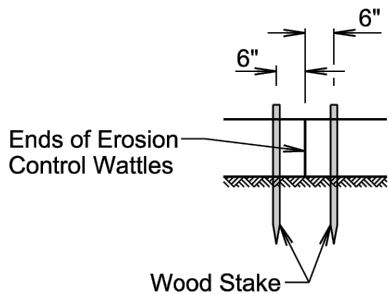
G:\Files\CAD\Land Project R2 (Job #s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Cover & Details.dwg, Erosion Control (2), 3/19/2026 1:19:05 PM



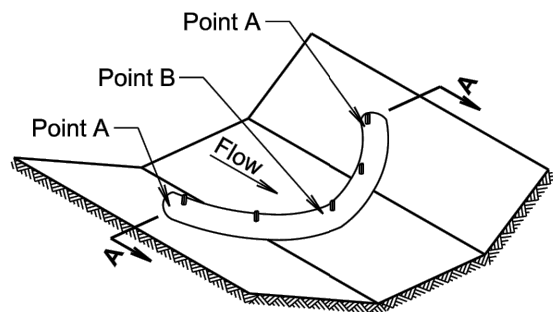
ELEVATION VIEW
(Cut or Fill Slope Installation)



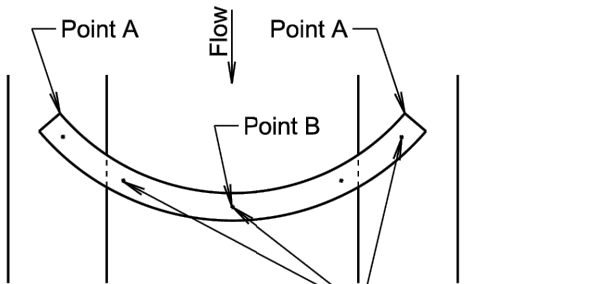
DETAIL B
(Typical of All Installations)



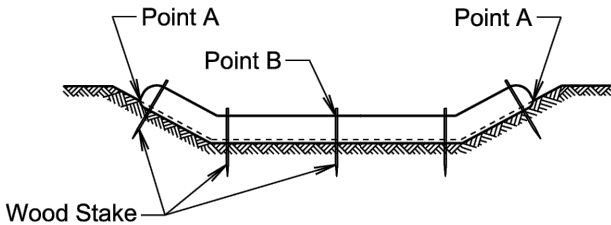
DETAIL C
(See General Notes)



ISOMETRIC VIEW
(Ditch Installation)



PLAN VIEW
(Ditch Installation)



SECTION A-A

DITCH INSTALLATION	
Grade	Spacing (Ft.)
2%	150
3%	100
4%	75
5%	50

CUT OR FILL SLOPE INSTALLATION	
Slope	Spacing (Ft.)
1:1	10
2:1	20
3:1	30
4:1	40

February 14, 2020

Published Date: 2026

**S
D
D
O
T**

EROSION CONTROL WATTLE

PLATE NUMBER
734.06

Sheet 1 of 2

GENERAL NOTES:

At cut or fill slope installations, wattles will be installed along the contour and perpendicular to the water flow.

At ditch installations, point A must be higher than point B to ensure that water flows over the wattle and not around the ends.

The Contractor will dig a 3" to 5" trench, install the wattle tightly in the trench so that daylight can not be seen under the wattle, and then compact the soil excavated from the trench against the wattle on the uphill side. See Detail B.

The stakes will be 1"x2" or 2"x2" wood stakes, however, other types of stakes such as rebar may be used only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the spacing of the stakes along the wattles will be 3' to 4'.

Where installing running lengths of wattles, the Contractor will butt the second wattle tightly against the first and will not overlap the ends. See Detail C.

The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm water permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary as determined by the Engineer.

Sediment removal, disposal, or necessary shaping will be as directed by the Engineer. All costs for removing accumulated sediment, disposal of sediment, and necessary shaping will be incidental to the contract unit price per cubic yard for "Remove Sediment".

All costs for furnishing and installing the erosion control wattles including labor, equipment, and materials will be incidental to the contract unit price per foot for the corresponding erosion control wattle contract item.

All costs for removing the erosion control wattle from the project including labor, equipment, and materials will be incidental to the contract unit price per foot for "~~Remove~~ Erosion Control Wattle".

February 14, 2020

Published Date: 2026

**S
D
D
O
T**

EROSION CONTROL WATTLE

PLATE NUMBER
734.06

Sheet 2 of 2

SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

**Erosion Control
Details**

Sheet Number:

36

Total Sheets:

39

STORM WATER POLLUTION PREVENTION PLAN

(The numbers right of the title headings are **reference numbers** to the **GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES**)

❖ **STAFF TRAINING/SWPPP IMPLEMENTATION (5.3 1-2)**

To promote stormwater management awareness specific for this project, the Contractor's Erosion Control Supervisor should provide correspondence of how the SWPPP will be implemented. The Contractor's Erosion Control Supervisor is responsible for providing this information at the preconstruction meeting, and subsequently completing an attendance and implementation log, which should identify site-specific implementation of the SWPPP and the names of the personnel responsible for the implementation. Documentation of the preconstruction meeting will be filed with the SWPPP documents.

❖ **SITE DESCRIPTION (5.3 4)**

➤ **Project Limits: Sheets 2**

➤ **Project Description: See Title Sheet (5.3 3.a)**

➤ **Site Map(s): See Title Sheet and Plans (5.3 4.(a)-(r))**

➤ **Major Soil Disturbing Activities** (check all that apply)

- ☒ Clearing and grubbing
- ☒ Excavation/borrows
- ☒ Grading and shaping
- ☒ Filling
- ☒ Cutting and filling
- ☐ Other (describe):

➤ **Total Project Area: 59.87 Ac (5.3 3.b.)**

➤ **Total Area To Be Disturbed: 3.50 Ac (5.3 3.b)**

➤ **Total Area To Be Disturbed At One Time: 3.50 Ac (5.3 3.c)**

➤ **Existing Vegetation and Percent Vegetation Cover: Native Grass around Lagoon Area, 95% (5.3 3.d)**

➤ **Soil Properties: NA (5.3 3.e)**

➤ **Name of Receiving Water Body/Bodies: Tributary to Firesteel Creek (5.3 3.f)**

❖ **ORDER OF CONSTRUCTION ACTIVITIES (5.3 3.h)**

➤ **The Contractor will enter the Start Dates.**

Description	Start Date
Install perimeter protection where runoff sheets from site.	
Install channel and ditch bottom protection.	
Clearing and grubbing.	
Remove and store topsoil.	
Stabilize disturbed areas.	
Install utilities, storm sewers, curb and gutter.	
Install inlet/culvert protection after completing utility installation.	
Complete final grading and paving.	
Complete traffic control installation and protection devices.	
Reseed areas disturbed by construction activities.	

❖ **EROSION AND SEDIMENT CONTROLS (5.3 5.(a)-(f))**

➤ **Perimeter Controls** (See Detail Plan Sheets)

(The Contractor will check all that apply and enter Start Dates.)

Description	Start Date
☐ Natural Buffers	
☒ Silt Fence	
☐ Erosion Control Wattles	
☐ Temporary Berm/Window	
☐ Floating Silt Curtain	
☐ Stabilized Construction Entrances	
☐ Entrance/Exit Equipment Tire Wash	
☐ Other:	

➤ **Structural Erosion and Sediment Controls**

(The Contractor will check all that apply and enter Start Dates.)

Description	Start Date
☐ Temporary Sediment Barriers	
☐ Erosion Bales	
☐ Temporary Slope Drain	
☐ Turf Reinforcement Mat	
☐ Riprap	
☐ Gabions/Gabion Mattress	
☐ Check Rock Dams	
☐ Sediment Traps/Basins	
☒ Culvert Inlet Protection	
☐ Transition Mats	
☐ Area Drain Inlet Protection	
☐ Curb Inlet Protection	
☐ Interceptor Ditch	
☐ Concrete Washout Facility	
☐ Work Platform	
☐ Temporary Water Barrier	
☐ Temporary Water Crossing	
☐ Permanent Stormwater Ponds	
☐ Permanent Open Vegetated Swales	
☐ Natural Depressions to allow for Infiltration	
☐ Sequential Systems (Combined Practices)	
☐ Other:	

➤ **Dust Controls** (The Contractor will check all that apply and enter Start Dates.)

Description	Start Date
☐ Tarps & Wind impervious fabrics	
☐ Watering	
☐ Stockpile location/orientation	
☐ Dust Control Chlorides	
☐ Other:	

➤ **Dewatering BMPs** (The Contractor will check all that apply and enter Start Dates.)

Description	Start Date
☐ Sediment Basins	
☐ Dewatering Bags	
☐ Weir Tanks	
☐ Temporary Diversion Channel	
☐ Other:	

• **Wetland Avoidance**

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes No ✓ If yes, the structural and erosion and sediment controls have been included in the total project wetland impacts and have been included in the 404 permit process with USACE.

➤ **Storm Water Management (5.4 7.(a)-(c))**

Storm water management will be handled by temporary controls outlined above, and permanent controls needed to meet permanent storm water management needs in the post construction period. Permanent controls will be shown on the plans and noted as permanent.

➤ **Stabilization Practices (See Detail Plan Sheets)**

(Stabilization measures shall be initiated as soon as possible, but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Initiation of final or temporary stabilization may exceed the 14-day limit if earth disturbing activities will be resumed within 21 days.)

(The Contractor will check all that apply and enter Start Dates.)

Description	Start Date
☒ Temporary or Permanent Seeding	
☐ Sodding	
☐ Planting	
☒ Mulching (Straw or Cellulose Fiber)	
☐ Erosion Control Blankets or Mats	
☐ Vegetation Buffer Strips	
☐ Roughened Surface (e.g. tracking)	
☒ Hydro Mulch	
☐ Soil Stabilizer	
☒ Bonded Fiber Matrix	
☐ Other:	

➤ **Other Storm Water Controls (5.3 8.b)**

▪ **Waste Disposal**

All liquid waste materials will be collected and stored in sealed metal containers approved by the project engineer. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal, and notices stating proper practices will be posted in the field office. The general contractor's representative responsible for the conduct of work on the site will be responsible for seeing waste disposal procedures are followed.

▪ **Hazardous Waste**

All hazardous waste materials will be disposed of in a manner specified by local or state regulations or by the manufacturer. Site personnel will be instructed in these practices, and the individual designated as the contractor's on-site representative will be responsible for seeing that these practices are followed.

▪ **Sanitary Waste**

Portable sanitary facilities will be provided on all construction sites. Sanitary waste will be collected from the portable units in a timely manner by a licensed waste management contractor or as required by any local regulations.

❖ **Maintenance and Inspection (4.0)**

➤ **Maintenance and Inspection Practices**

- Inspections will be conducted at least once every 7 calendar days or every 14 calendar days and within 24 hours of precipitation that exceeds 0.25 inches or snowmelt that generates runoff. You must keep a properly maintained rain gauge on your site.
- All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.
- Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches 1/3 of the height of the silt fence.
- Sediment basins and traps will be checked. Sediment will be removed when the depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction.
- All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations.
- Inspection and maintenance reports will be prepared for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents.
- The contractor's site superintendent is responsible for inspections. Maintenance, repair activities are the responsibility of the contractor. The Contractor will complete the inspection and maintenance reports and distribute copies to the owner and engineer.

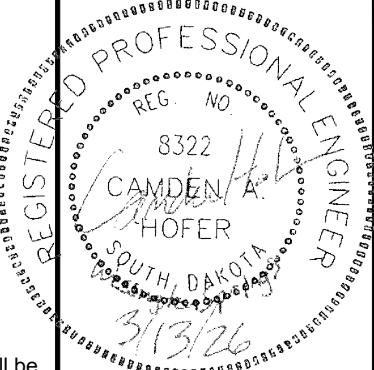
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790:Wessington Springs WWT

Project Name:

Wastewater
Treatment
Improvements

Located in:

Wessington
Springs,
South Dakota

Sheet Name:

SWPPP
Sheet 1

Sheet Number: Total Sheets:

37

39

❖ **Non-Storm Water Discharges (5.3 10)**

The following non-storm water discharges are anticipated during the course of this project (The Contractor will check all that apply).

- ☒ Discharges from water line flushing.
- ☐ Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.
- ☒ Uncontaminated ground water associated with dewatering activities.

❖ **Spill Prevention (5.3 8)**

➤ **Material Management**

- **Housekeeping**
 - Only needed products will be stored on-site by the contractor.
 - Except for bulk materials the contractor will store all materials under cover and in appropriate containers.
 - Products shall be kept in their original containers with the original manufacture's label.
 - Material mixing will be conducted in accordance with the manufacturer's recommendations.
 - Whenever possible, all products will be completely used before properly disposing of the container off site.
 - The manufacturer's directions for disposal of materials and containers will be followed.
 - The contractor's site superintendent will inspect materials storage areas regularly to ensure proper use and disposal.
 - Dust generated will be controlled in an environmentally safe manner.
 - Vegetation areas not essential to the construction project will be preserved and maintained as noted on the erosion control plans.

- **Hazardous Materials**

- Products will be kept in original containers unless the container is not resealable.
- Original labels and material safety data sheets will be retained in a safe place to relay important product information.
- If surplus product must be disposed of, manufacturer's label directions for disposal will be followed.
- Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, de-greasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants will be conducted on an impervious surface and under cover during wet weather to prevent the release of contaminants onto the ground.
- Wheel wash water will be collected and allowed to settle out suspended solids prior to discharge. Wheel wash water will not be discharged directly into any storm water system or storm water treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, and mixer washout waters will be collected on site and managed to prevent contamination of storm water runoff.

❖ **Materials Inventory (5.3 9.(a)-(c))**

The following materials or substances are expected to be present on the site during the construction period. These materials will be handled as noted under the headings "EROSION AND SEDIMENT CONTROLS" and "SPILL PREVENTION" (The Contractor will check all that apply).

- ☒ Concrete and Portland Cement
- ☐ Detergents
- ☐ Paints
- ☒ Metals
- ☒ Bituminous Materials
- ☒ Petroleum Based Products
- ☐ Cleaning Solvents
- ☐ Wood
- ☒ Cure
- ☐ Texture
- ☒ Chemical Fertilizers
- ☐ Herbicides
- ☒ Diesel Exhaust Fluid
- ☐ Other:

➤ **Product Specific Practices (5.3 9)**

- **Petroleum Products**

All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.
- **Fertilizers**

Fertilizers will be applied only in the amounts recommended by the supplier. Once applied, fertilizers will be worked into the soil to limit the exposure to storm water. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.
- **Paints**

All containers will be tightly sealed and stored when not required for use. The excess will be disposed of according to the manufacturer's instructions and any applicable state and local regulations.
- **Concrete Trucks**

Contractors will provide designated truck washout areas on the site. These areas must be self contained and not connected to any storm water outlet of the site. Upon completion of construction washout areas will be properly stabilized.

➤ **Spill Control Practices (5.3 8)**

- In addition to the previous housekeeping and management practices, the following practices will be followed for spill prevention and cleanup if needed.
- For all hazardous materials stored on site, the manufacturer's recommended methods for spill clean up will be clearly posted. Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
 - Appropriate cleanup materials and equipment will be maintained by the contractor in the materials storage area on-site. As appropriate, equipment and materials may include items such as booms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for clean up purposes.
 - All spills will be cleaned immediately after discovery and the materials disposed of properly.
 - The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
 - After a spill a report will be prepared describing the spill, what caused it, and the cleanup measures taken. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, as well as clean up instructions in the event of reoccurrences.
 - The contractor's site superintendent, responsible for day-to-day operations, will be the spill prevention and cleanup coordinator. The contractor is responsible for ensuring that the site superintendent has had appropriate training for hazardous materials handling, spill management, and cleanup.

➤ **Spill Response (5.3 8)**

- The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into storm water runoff and conveyance systems. If the release has impacted on-site storm water, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens storm water or surface water at the site, the spill response procedures outlined below must be implemented in a timely manner to prevent the release of pollutants.
- The contractor's site superintendent will be notified immediately when a spill or the threat of a spill is observed. The superintendent will assess the situation and determine the appropriate response.
 - If spills represent an imminent threat of escaping erosion and sediment controls and entering receiving waters, personnel will be directed to respond immediately to contain the release and notify the superintendent after the situation has been stabilized.
 - Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the contractor at the site.
 - If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed or repaired as necessary to prevent further releases.
 - If a spill occurs the superintendent or the superintendent's designee will be responsible for completing the spill reporting form and for reporting the spill to SD DANR.
 - Personnel with primary responsibility for spill response and clean up will receive training by the contractor's site superintendent or designee. The training must include identifying the location of the spill kits and other spill response equipment and the use of spill response materials.
 - Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response activities.

❖ **Spill Notification (7.1 1.(a)-(i))**

In the event of a spill, the contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures:

- A reportable spill is a quantity of 25 gallons or more or any spill of oil which:
 - 1) violates water quality standards,
 - 2) produces a "sheen" on a surface water, or
 - 3) causes a sludge or emulsion must be reported immediately to the National Response Center .
- Any spill of oil or hazardous substance to waters of the state must be reported immediately by telephone to the SD DANR.

❖ **Post Construction Stormwater Management (5.3 7.(a)-(c))**

Storm management will be handled by temporary controls outlined in "Description and maintenance of control measures" and any permanent controls needed to meet permanent stormwater management needs in the post construction period will be shown in the plans and noted as permanent.

❖ **Infeasibility Document (5.3 11)**

If it is determined to be infeasible to comply with any of the requirements of the Stormwater Permit, the infeasibility determination must be thoroughly documented in the SWPPP.

❖ **Required SWPPP Modifications (5.5)**

➤ **Conditions Requiring SWPPP Modifications (5.5 1)**

- The SWPPP must be modified, including the site map(s) in response to any of the following conditions.
- When a new operator responsible for implementation of any part of the SWPPP begins work on the site.
 - When changes to the construction plans, sediment and erosion control measures, or any best management practices on site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered by inspections.
 - To reflect areas on the site map where operational control has been transferred (including the date of the transfer) or has been covered under a new permit since initiating coverage under this general permit.
 - If inspections by site staff, local officials, SDDANR, or U.S. EPA determine that SWPPP modifications are necessary for compliance with the Stormwater Permit.
 - To reflect any revisions to applicable federal, state, or local requirements that affect the control measures implemented at the site.
 - If approved to reflect any changes in chemical water treatment systems or controls, including the use of a different water treatment chemical, age rates, different areas, or methods of application.

➤ **Deadlines for SWPPP Modification (5.5 2)**

Any required revisions to the SWPPP must be completed within 7 calendar days following any of the items listed above.

➤ **Documentation of Modifications to the Plan (5.5 3)**

All SWPPP modification records are required to be maintained showing the dates of when the modification occurred. The records must include the name of the person authorizing each change and a brief summary of all changes.

➤ **Certification Requirements (5.5 4)**

All modifications made to the SWPPP must be signed and certified as required in Section 7.4.

➤ **Required Notice to Other Operators (5.5 5)**

If there are multiple operators at the site, the Contractor's Erosion Control Supervisor must notify each operator that may be impacted by the change to the SWPPP within 24 hours.

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Pollution Prevention Plan (SWPPP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The Contractor will modify the SWPPP plan and drawings to reflect the needed changes. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.

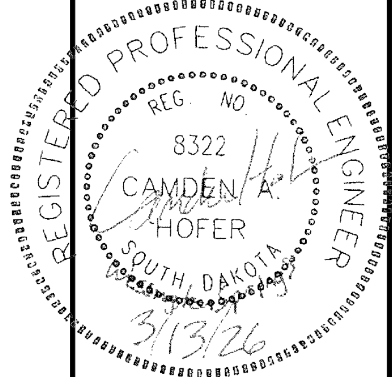
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

**SWPPP
Sheet 2**

Sheet Number: Total Sheets:

38

39

G:\Files\CAD\Land Project R2 (job #'s 16000-)\16790-Wessington Springs Lagoons-TOPO\16790-Cover & Details.dwg, SWPPP (3), 3/19/2026 2:10:37 PM

❖ **CERTIFICATIONS**

☞ **Certification of Compliance with Federal, State, and Local Regulations**

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

➤ **City of Wessington Springs**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature. (See the General Permit, Section 7.4 1)

➤ **Prime Contractor**

This section is to be executed by the General Contractor after the award of the contract and at least 15 days prior to the beginning of construction. This section may be executed any time there is a change in the Prime Contractor of the project.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature. (See the General Permit, Section 7.4 1)

❖ **CONTACT INFORMATION**

➤ **Contractor Information:**

- Prime Contractor Name:
- Contractor Contact Name:
-
- Address:
-
- Address:
-
- City:
-
- State:
-
- Zip:
-
- Office Phone:
-
- Field:
-
- Cell:
-
- Fax:

➤ **Project Engineer**

- Name: Camden Hofer, P.E.
- Business Address: 2100 N. Sanborn Blvd.
- Job Office Location 2100 N. Sanborn Blvd.
- City: Mitchell State: SD Zip: 57301
- Office Phone: 605-996-7761 Fax:605-996-0015

➤ **SD DANR Contact Spill Reporting**

- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231

➤ **SD DANR Contact for Hazardous Materials.**

- (605) 773-3153

➤ **National Response Center Hotline**

- (800) 424-8802.

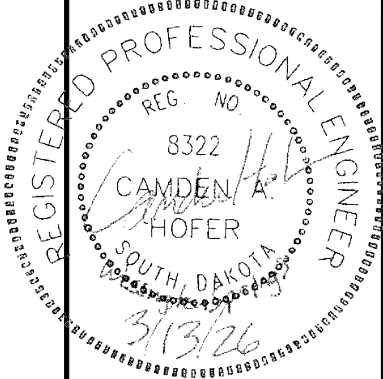
SPN
& Associates

Engineers - Planners - Surveyors

2100 North Sanborn Boulevard - P.O. Box 398
Mitchell, South Dakota 57301-0398
Phone: (605) 996-7761 - Fax: (605) 996-0015

Certificate

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.



Plan Horiz. Scale:	None
Drawn By:	TJH
Checked By:	CAH
Date:	01/30/2026
Project No.:	16790
File Name:	16790: Wessington Springs WWT

Project Name:

**Wastewater
Treatment
Improvements**

Located in:

**Wessington
Springs,
South Dakota**

Sheet Name:

**SWPPP
Sheet 3**

Sheet Number: Total Sheets:

39

39