

Item	Description	Quantity	Unit
	General		12724
1	Mobilization	1	LS
2	Incidental	1	LS
3	Temporary Mailboxes/Mailbox Replacement	1	LS
	Traffic Control		
4	Traffic Control	1793	UNIT
5	Traffic Control Miscellaneous	1	LS
	Removals and Grading		
6	Saw Existing Concrete	59	LF
7	Saw Existing Asphalt	371	LF
8	Removal of Concrete Pavement	412	SY
9	Removal of Asphalt Pavement	8015	SY
10	Removal of Curb & Gutter	144	LF
11	Unclassified Excavation	1	LS
12	Undercutting	250	CY
12	Water for Embankment or	50	V.C.
13	Granular Material	50	KGa
	Erosion Control		
14	Topsoil	1	LS
15	Seeding, Mukhing, Fertilizer	1	LS
16	Vehicle Tracking Control	1	EA
17	Inlet Sediment Control	4	EA
18	Silt Fence	85	LF
19	Geotextile Fabric	2000	SY
	Sanitary Sewer		Martin
20	F&I 48" Manhole 8' to 10'	2	EA
21	F&I 48" Manhole 10' to 12'	3	EA
22	F&I 48" Manhole 12' to 14'	3	EA
23	8" PVC Sanitary Sewer Pipe 8' to 10'	356	LF
24	8" PVC Sanitary Sewer Pipe 10' to 12'	346	LF
25	15" PVC Sanitary Sewer Pipe 10' to 12'	1031	LF
26	15" PVC Sanitary Sewer Pipe 12' to 14'	276	LF
27	18" PVC Sanitary Sewer Pipe 12' to 14'	174	LF
28	8" Sewer Fernco	3	EA
29	15" Sewer Fernco	2	EA
30	18" Sewer Fernco	2	EA
31	Removal of Existing Sanitary MH	7	EA
32	Removal of Sanitary Sewer Line	95	LF
33	Cap Existing Sanitary Sewer	9	EA
34	Connect Sanitary Sewer Service	15	EA
35		5	EA
0.500.00	Sanitary Sewer Service Repair Install New 4" Sewer Service	420	LF
36			10000000
37	Granular Material for Sewer Main	2183	LF
38	Install Weir Wall	1	EA
39	Replace Manhole Frame and Cover	1	EA
40	Temprary Bypass Pumping	1	LS

	Water Main		
41	12" PVC Water Main C-900	2875	LF
42	10" PVC Water Main C-900	4	LF
43	6" PVC Water Main C-900	234	LF
44	12" MJ Gate Valve w/Box	9	EA
45	6" MJ Gate Valve w/Box	7	EA
46	12" x 45 Deg. MJ Bend	4	EA
47	12" x 11.5 Deg. MJ Bend	1	EA
48	6" x 45 Deg. MJ Bend	4	EA
49	12" X 12" MJ Tee	2	EA
50	12" X 6" MJ Tee	6	EA
51	6" X 6" MJ Tee	1	EA
52	12" x 10" Reducer	1	EA
53	10" Cap	3	EA
54	12" Sleeve	1	EA
55	10" Oversized Sleeve	1	EA
56	6" Oversized Sleeve	1	EA
57	6" Sleeve	1	EA
58	12" Megalugs	49	EA
59	10" Megalugs	2	EA
60	6" Megalugs	39	EA
61	1" Curb Stop w/Box	15	EA
62	1" Copper Service Line	457	LF
63	Granular Material for Water Main	3113	LF
64	Install Temporary Fire Hydrant	3	EA
65	Install Fire Hydrant	5	EA
66	Remove Existing Fire Hydrant	4	EA
67	Cut and Tie into Existing Water Main	5	EA
68	Connect Water Service Lines	16	EA
69	Removal of Existing Watemain	167	LF
	Storm Sewer		
70	Removal of Existing Junction Box	1	EA
71	Removal of Existing Storm Sewer Pipe	78	LF
72	4' X 4' SS Junction Box	1	EA
73	5' X 3' Type S Inlet (4'-6' Deep)	6	EA
74	2' X 3' Type B Inlet (6'-8' Deep)	1	EA
75	2' X 2' Catch Basin (2'-4' Deep)	5	EA
76	F&I 12" RCP, Class 2 (2'-4' Deep)	243	LF
77	F&I 12" RCP, Class 2 (4'-6' Deep)	184	LF
78	F&I 18" RCP, Class 2 (4'-6' Deep)	598	LF
79	F&I 24" RCP, Class 2 (4'-6' Deep)	85	LF
80	F&I 12" RCP Flared End Section	1	EA
81	F&I 24" RCP Flared End Section	1	EA
82	Core Into Existing Junction Box	1	EA
83	Granular Material for Storm Sewer	1110	LF
84	Class A Rip-Rap	2	TON

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	Surfacing		
85	8" PCC Pavement	11509	SY
86	8" PCCP Fillet Section	1104	SF
87	8" PCC Valley Gutter	299	SF
88	Concrete Curb & Gutter (B68)	5572	LF
89	6" Concrete Pavement	2628	SF
90	6" Approach Pavement	2288	SF
91	4" Sidewalk	8325	SF
92	6" Sidewalk	4964	SF
93	Aggregate Base Course	13926	SY
94	Detectable Warning Panel	50	SF
95	Drill Bars Into Existing Pavement	97	EA

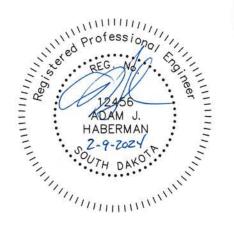


TABLE OF REMOVE AND REPLACEMENT /INSTALLMENT OF CONCRETE SIDEWALK

LOCATION 8TH ST	REMOVE(SY)	REPLACE/INSTALL (SF
1+12.53 TO 7+53.77 LT.	25	3323 (10 SF DWP) (6")
7+53.77 TO 8+88.58 LT.		681
8+88.58 TO 8+98.58 LT.		51 (6")
8+98.58 TO 9+61.52 LT.		317.5
9+61.52 TO 9+79.52 LT.		90 (6")
9+79.52 TO 10+13.34 LT.		168
10+13.34 TO 10+23.34 LT.		50 (6")
10+23.34 TO 10+89.15 LT.		328
10+89.15 TO 10+99 LT.		58.5 (10 SF DWP) (6")
11+39.70 TO 11+48.87 LT.		58.5 (10 SF DWP) (6")
1+44.87 TO 11+48.87 LT	3	46
11+48.87 TO 12+35.83 LT.		435
12+35.83 TO 12+59.83 LT.		120.5 (6")
12+59.83 TO 12+82.44 LT.		113
12+82.44 TO 12+94.44 LT.		60 (6")
12+94.44 TO 13+58.77 LT.		322
13+58.77 TO 13+80.77 LT.		110 (6")
13+80.77 TO 15+23 LT.		711
15+23 TO 15+34.23 LT.		58 (10 SF DWP) (6")
15+65.66 TO 15+79 LT.		67.5 (10 SF DWP) (6")
15+79 TO 16+51.38 LT.		361.5
16+51.38 TO 16+75.38 LT.		120 (6")
16+75.38 TO 17+60.29 LT.		424.5
17+60.29 TO 17+85.29 LT.		125 (6")
17+85.29 TO 20+09.75 LT.		1123.5
20+09.75 TO 20+25.75 LT.		80 (6")
20+25.75 TO 21+50.68 LT.		625
21+50.68 TO 21+70.68 LT.		100.5 (6")
21+70.68 TO 22+33.30 LT.		313
22+33.30 TO 22+49.49 LT.		80 (6")
22+49.49 TO 23+08.28 LT.		289.5
23+08.28 TO 23+22.50 LT.		69.5 (6")
23+22.50 TO 23+79.58 LT.		369.5
23+79.58 TO 24+21.26 LT.		116 (6")
24+21.26 TO 24+54.51 LT.		164
24+54.51 TO 24+68.86 LT.		71 (6")
24+68.86 TO 26+13.77 LT.		714
26+13.77 TO 26+45.73 LT.		155 (6")
26+45.73 TO 28+13.88 LT.		819
SW THRU DRIVEWAYS 6"		4964 (TOTAL 6") 8325 (TOTAL 4")
TOTAL	28	13289 50 SF DWF

TABLE OF 8" PCC FILLET SECTION REMOVAL AND REPLACE

STATION TO STATION	RADIUS	REMOVAL SY	REPLACE (SF)
NW COR. 8th AND BURLEIGH	20'	18	190
SW COR. 8th AND BURLEIGH	20'		136
NW COR. 8th AND BIRCH	22.5'		221
NE COR. 8th AND BIRCH	20'		180
NW COR, 8th AND PENINAH	20'		189
NE COR. 8th AND PENINAH	20'		<u>188</u>
	TOTAL	18 SY	1104 SF

PROJECT	SHEET NO.	TOTAL SHEETS
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QUANTITIE	S	

TABLE OF INSTALLMENT OF CONCRETE APPROACH PAVEMENT

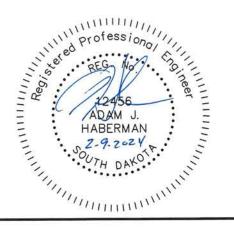
LOCATION 8TH ST	REPLACE/INSTALL (SF)
1+34.77 TO 1+54.77 LT.	120
2+54.49 TO 2+70.68 LT.	99.5
2+84.53 TO 3+00.64 LT.	100
5+11.12 TO 5+31.12 LT.	120
6+58.71 TO 6+74.56 LT.	106
7+41.77 TO 7+53.77 LT.	100
8+88.58 TO 8+98.58 LT.	86.5
9+61.52 TO 9+79.52 LT.	135.5
10+13.34 TO 10+23.34 LT.	86
12+35.83 TO 12+59.83 LT.	183
12+82.44 TO 12+94.44 LT.	103
13+58.77 TO 13+80.77 LT.	160.5
16+51.38 TO 16+75.38 LT.	112
17+60.29 TO 17+85.29 LT.	116
20+09.75 TO 20+25.75 LT.	85.5
21+50.68 TO 21+70.68 LT.	98.5
22+33.30 TO 22+49.49 LT.	80
23+08.28 TO 23+22.50 LT.	71.5
23+79.58 TO 24+21.26 LT.	110.5
24+54.51 TO 24+68.86 LT.	73
26+13.77 TO 26+45.73 LT.	141

TABLE OF INSTALLMENT OF 6" CONCRETE PAVEMENT

TOTAL

LOCATION 8TH ST	REPLACE/INSTALL (SF)
1+14 TO 1+34.77 LT.	70
1+54.77 TO 2+54.49 LT.	479
2+70.68 TO 2+84.53 LT.	48
3+00.64 TO 5+11.12 LT.	1032.5
5+31.12 TO 6+58.71 LT.	621
6+74.56 TO 7+41.77 LT.	377.5
TOTAL	2628

2288



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NOTES		*

GENERAL NOTES

SPECIFICATIONS TO BE USED

City of Yankton Standard Specifications and the Standard Specifications for Roads and Bridges 2015 Edition and Required Provisions, Supplemental Specifications, and/or Special Provisions as included in the Proposal.

UTILITIES

Location and protection of all underground utilities is the Contractor's responsibility. The Contractor will be required to coordinate work with the utility companies. Existing utilities and service lines that coincide with proposed underground main locations are to be located in advance by the contractor such that proposed underground mains can be adjusted to avoid conflict.

Utility locations are coordinated by calling: 1-800-781-7474 (One Call)

SEQUENCE OF OPERATIONS

The Contractor shall use the following sequence of operations that are listed on the traffic control sheets unless an alternate is approved by the Engineer. An alternate sequence must be submitted in writing a minimum of one week prior to the preconstruction meeting.

All trenches are to be backfilled, compacted and covered with service gravel on the same day the pipe is laid. Aggregate Base Course will be used in lieu of Service Gravel as directed by the engineer to temporarily re-open portions of streets after the pavement is removed.

See sheet 32 for project phasing.

ACCEPTANCE TESTING

The City will be responsible for taking the first acceptance test and a backup test if required. All subsequent tests required due to failures will be paid by the Contractor by deducting the cost from the pay request.

INCIDENTAL WORK

All salvageable materials shall be taken out intact and stockpiled within the right-of-way to the satisfaction of the Engineer. The Contractor shall perform salvage operations in a manner that will prevent damage to the salvageable materials.

Salvable materials will be picked up by the City.

All concrete removed from the existing structures and other disposable material shall be disposed of in accordance with the Waste Disposal Site note.

For all areas designated for asphalt paving, the contractor will be responsible for preparations needed in order for the City of Yankton to complete the asphalt placement. This is to include any additional sawing, excavating, and placing of base material outside the scope of the project. Cost estimated with this work shall be included in the "Incidental Work" bid item.

OCCUPYING STATE ROW

Contractor shall comply with Traffic Control Standards under SD DOT Standard Specifications for Roads and Bridges, and as per the manual on Uniform Traffic Control Devices.

STREET SWEEPING

The Contractor shall be responsible to maintain a clean and well-kept work site. Adjacent streets shall be swept clean of construction debris at the Engineer's request. Street sweeping shall be considered incidental to the project. No separate payment will be made.

TRAFFIC CONTROL NOTES

GENERAL MAINTENANCE OF TRAFFIC

- 1. Storage of vehicles and equipment shall be as near the right-of-way as possible. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the City, and to the satisfaction of the Engineer.
- 2. The Contractor shall designate an employee whose responsibility is the maintenance of traffic, 24 hours a day and 7 days a week. The person so designated must have training and experience in the field of construction traffic control and be knowledgeable about the Manual on Uniform Traffic Control Devices (MUTCD). The cost of the traffic control person shall be incidental to the contract lump sum price for Traffic Control Miscellaneous. The employee selected must be approved by the Engineer. The name, phone number, and location of person(s) shall be provided to the county sheriff's department and the local police department. Road closure and barricading shall immediately be reported to the local police department by the Contractor. Local police department phone number 605-668-5210
- 3. Work activities during non-daylight hours are subject to prior approval.
- 4. The contractor shall maintain traffic control every day. The contractor shall have \$200.00 per day deducted from the contract for each day that traffic control is not maintained. If traffic control is not in place when the contractor begins work which requires traffic control, payment for bid item "Traffic Control" will be reduced by 50%.
- 5. The Contractor shall notify the City of Yankton Street Department prior to construction to enable the city forces to remove and salvage existing traffic control signs. City of Yankton Street Dept. number 605-668-5211

PEDESTRIAN TRAFFIC

The Contractor will be required to maintain pedestrian access during construction. Pedestrian access shall be ADA accessible and shall conform to the Manual on Uniform Traffic Control Devices 2009 edition. Access can either be maintained on concrete sidewalk or on a temporary boardwalk. This work may include but is not limited to sawing existing sidewalk to leave half in place, staging sidewalk removal and construction to maintain access, installing safety fence around work areas, and construction and removal of temporary boardwalk. The Contractor shall determine the actual location of temporary access during construction and shall be approved by the Engineer. Payment for all work and associated materials shall be incidental to the contract lump sum price for "Traffic Control Miscellaneous".

TRUCK ROUTES

The Contractor shall only haul materials in and out of the construction site on the streets shown in the traffic control plans. All fully loaded trucks delivering materials or hauling out removals shall only utilize the streets labeled as "Primary Haul Route." Empty or lightly loaded trucks may utilize "Secondary Haul Route" with the permission of the Engineer.

EROSION CONTROL NOTES

DEWATERING AND EROSION CONTROL

Pumping required for the removal of surface water from the work area and/or depressions will be considered incidental to other pay items and not paid for separately. The Contractor shall be responsible for obtaining the required erosion control permits from the South Dakota Department of Environment and Natural Resources.

SITE MAINTENANCE

The Contractor is to keep the project site properly maintained and graded to drain storm water. No standing water is permitted on site. A penalty of \$500/day will be assessed each day standing water is not removed from site. All regulations pertaining to Storm Water Pollution Prevention will be enforced. Direct discharge of storm water into the storm sewer system is not

EROSION CONTROL - VEHICLE TRACKING CONTROL

1. CONSTRUCTION

The work covered by this section consists of furnishing all labor and equipment and the performance of all operations in connection with the construction of temporary vehicle tracking control on the project, complete and in accordance with the plans and standard plates. The Contractor shall be responsible for accomplishing the required construction work on this project in such a manner as to effectively minimize and control water pollution which might be caused by vehicular tracking of soil. It is intended that these features be maintained in appropriate functional condition whenever vehicles come or go from the construction site where there is dirt exposed.

In addition to the details shown in the plans, other provisions for controlling erosion may be incorporated.

2. MATERIALS

11/2" to 3" rock shall be used.

3. LABOR AND EQUIPMENT

All necessary labor and equipment shall be supplied to clean up any dirt or gravel off of the paved roadway surfaces at the end of each day. The contractor shall also remove any service gravel that has dirt mixed in with it from the project site when the trackfig control is no longer necessary. Clean service gravel can be incorporated into the base material for the spadbed.

4. PAYMENT

Service gravel shall be paid for at the unit price bid in the contract for Asia Arice gravel. Unit price for "Temporary Vehicle Tracking Control" shall be the amount paid to A Pad No he where the engineer requires the use of the temporary vehicle tracking control for now ever long it is needed. The Contractor will be charged \$50.00 for each day that did is not pleaned off of the street after it is placed or tracked onto the payement. The state of the s street after it is placed or tracked onto the pavement.

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EROSION CONTROL - SILT FENCE NOTES

CONSTRUCTION

The work covered by this section consists of furnishing all labor and equipment and the performance of all operations in connection with the construction, maintenance and removal of the silt fence for the control of siltation on the project, complete and in accordance with the plans and standard plates. The Contractor shall be responsible for accomplishing the required construction work on this project in such a manner as to effectively minimize and control water pollution which might be caused by soil erosion from the project. It is intended that these features be maintained in appropriate functional condition from initial construction stages to final completion of the project.

After rainfall events, the Contractor shall take all necessary precautions to prevent silt from being carried away from the project site when water is being pumped out of any area where water is backed up on the project site

In addition to the details shown in the plans, other provisions for controlling erosion may be incorporated.

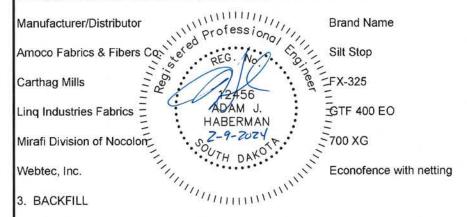
2. MATERIALS

A. Steel Fence Posts

The steel line posts for field fence shall have a cross section of one and one-half inches by one and one-half inches. The average weight shall be less than 1.33 pounds per linear foot. Paint for steel fence posts shall be the manufacturers standard paint finish.

B. Silt Fabric

The approved brands of engineering fabrics for silt fence are listed below:



All compaction of backfill shall be accomplished with a mechanical tamper or pneumatic tamper. All compacting equipment shall be operated according to the manufacturers recommendations.

4. PAYMENT

Payment shall be based on the lineal foot of silt fence satisfactorily constructed and measured from outside of the end posts. The work completed in accordance with the plans and specifications at the applicable contract price in the bid schedule which price shall constitute full compensation for furnishing all materials, equipment, labor, and tools necessary for completion of the work. The unit price shall also include removing muck from behind the silt fence after rain events and removing the silt fence when it is no longer needed.

INLET SEDIMENT CONTROL

Refer to Standard Plates 734.10 SD DOT AND SIOUX FALLS 734.16 - Drop inlet sediment filters.

REMOVAL NOTES

GENERAL NOTES

The Contractor will be required to raze, remove and dispose of all buildings and foundations, structures, fences, advertising signs, and other obstructions of which any portion are on the right-of-way or Temporary Easements except Utilities and those for which other provisions have been made for removal, in accordance with Section 110 of the Standard Specifications.

The removal and disposal of all buildings, foundations and other obstructions not removed under Incidental Work or on a unit basis shall be considered as subsidiary work to the other Contract Items and no separate payment will be made for their removal and disposal.

REMOVAL OF EXISTING CONCRETE PAVEMENT

Payment for concrete removal is included in the contract unit price per square yard for "Removal of Concrete Pavement". Payment shall be at the contract unit price per square yard, regardless of variations in thickness. Joints shall be sawed wherever existing concrete is to be connected to new construction.

When asphalt is laid over concrete pavement, removal of the asphalt surfacing shall be incidental to the unit price for "Removal of Concrete Pavement".

REMOVAL OF EXISTING ASPHALT PAVEMENT

Payment for asphalt mat removal is included in the contract unit price per square yard for "Removal of Asphalt Concrete". Payment shall be at the contract unit price per square yard, regardless of variations in thickness.

WASTE DISPOSAL SITE

Contractor shall dispose of broken concrete and asphalt generated by this project at the city stockpile site located at 23rd and Kellen Gross Drive. No tipping fee will be assessed to Contractor for broken concrete and asphalt disposed of at this site Concrete and asphalt is to be kept separate from earth material during the removal process. Concrete and asphalt may be mixed.

Asphalt contaminated with soil during the removal process or concrete containing reinforcing steel or contaminated with soil must be disposed of at the Yankton rubble site, 23rd and Kellen Gross Drive. Disposal fees shall be the Contractors responsibility, and considered incidental to other pay items.

The Contractor will be required to use a state permitted solid waste disposal facility. The Contractor can obtain a list of permitted solid waste disposal facilities in the Yankton area or discuss proper disposal of construction and demolition debris by contacting Waste Management Program at 1-(605)-773-3153.

Construction/demolition debris may not be disposed of within the ROW.

UNCLASSIFIED EXCAVATION

Unclassified Excavation will be paid for on a lump sum basis. The bid item for "Unclassified Excavation" shall include removing the existing material to a depth of 14 inches below the new road surface shown on the typical sections. Estimated quantities in cubic yards are shown below. These estimates are based on the assumption of 6 inches of existing Asphalt Pavement being removed separately.

Estimate of 8057 cu yds. of removal on 8TH STREET. It will be the contractor's responsibility to find a location for existing sub-grade material, that needs to be removed.

UTILITY NOTES

GENERAL ITEMS

All existing pipe and material removed by the contractor shall be appropriately disposed of by the contractor. All open ends of abandoned in place piping shall be plugged with concrete unless otherwise noted in plans. All abandoned valve boxes shall be removed to at least 2 feet below the ground surface and filled with granular material.

Salvageable material shall become the property of the City of Yankton, as directed by engineer. Abandoned valves shall have the valve boxes removed to a depth of not less than 2 feet below ground level. Removal of water main, valves and fittings, necessary for the construction of the new items, shall be incidental to other project costs.

STRUCTURE REMOVAL

The removal of existing pipe and manholes is to include the plugging of existing pipe if necessary with concrete and the removal of the structure. Castings and manhole covers removed are to be delivered to the city street shop.

WATER MAIN GENERAL

The contractor shall provide new water main with a minimum of 6' of cover. The water main will be AWWA C-900. Adjust the depth of the new main to match existing main where connections to existing mains are shown on plans. Existing copper services will be connected to the new water main. Services will be replaced if line is galvanized, lead or smaller then 3/4 inch copper. Replace these service lines to ROW line behind new curb & gutter or as directed by engineer with 1 inch copper and install a new curb stop and box. Services may be "hole hogged" with an underground piercing tool at no additional expense to the City of Yankton.

Contractor shall backfill all open trenches to the end of the pipe every night and appropriately protect the open hole with fencing. The Contractor shall have \$200 per day deducted from the contract for each day that this is not done.

The City of Yankton will supply the fire hydrants needed for the project.

PVC WATER MAIN ENCASEMENT PIPE

PVC Water Main Encasement Pipe shall be installed at the locations shown on the plans and at locations determined by the Engineer on the project.

PVC Water Main Encasement Pipe shall be of water main quality, including joints, and be either ASTM D2241, Class 160 or Class 125 or AWWA C900 DR 25 or DR 18.

All costs for installation of the new water main in the encasement pipe, attachment of skids to the new water main, and casing seals at the ends of the encasement pipe shall be incidental to the contract price per foot for PVC Water Main Encasement Pipe.

CUT AND TIE TO EXISTING WATER MAIN

Where "Cut and Tie to Existing Water Main" is required, Contractor shall make the required connection at a time to be designated by the City. Where the new main is to be connected to existing mains, the connection, sawing, pumping of water, labor and other items necessary to complete the tie are considered to be part of the bid item. This time may be during nighttime hours. The exact time will vary from location to location to accommodate the needs of water users who will experience an outage. All costs associated with work during this time period shall be incidental to the contract price per each for "Cut and Tie to Existing Water Main".

POLYETHYLENE ENCASEMENT

All valves, fittings, and other ductile iron appurtenances and pipe are to be wrapped with 8 mil. thick polyethylene in accordance with AWWA C-105. This work is incidental to other pay items.

2023-027 NOTES

SLEEVES AND RETAINER GLANDS

The contractor shall furnish and install all clamps, ready rods, blocking and cradling necessary for the project as an incidental project cost.

Retainer glands are to be installed in addition to blocking at all fittings (mega lug series 2000pv). Retainer glands and sleeves will be paid for per each at the bid unit price.

VALVE BOX CENTERING ADAPTER

All valve boxes shall be equipped with a rubber boot/sleeve that covers and firmly holds the bottom of the valve box over the valve nut (valve box adapter ii).

TRACER WIRE SYSTEM

The tracer wire system shall be installed with ductile iron water mains and with PVC water mains to the satisfaction of the engineer.

Tracer wire shall be no. 12 solid single strand Type TW or THHn, or approved equal.

The conductor shall be solid or stranded copper per ASTM B-1, B-3, or B-8. The ground rod shall be a 3/8-inch diameter, 60-inch long steel rod uniformly coated with metallically bonded electrolytic copper. Blackburn catalog no. 3755, or equal. The ground rod at the fire hydrant shall be of the same material except that the ground rod shall be 30 inches long.

Ground rod clamps shall be high strength, corrosion resistant copper alloy. Blackburn catalog no. G3, or equal.

Splice kits shall be Scotchlok DBY-Y connectors or equal.

The cost of the tracer wire system is considered to be a part of the cost of the water main installation.

TRACER WIRE INSTALLATION

Tracer wire shall be installed with PVC, and ductile iron water mains. The wire shall be installed along the lower quadrant of the pipe, but the pipe shall not be laid directly on the wire. Ground rods shall be installed adjacent to connections to existing piping and in the locations specified on the plans. The tracer wire shall be brought to each fire hydrant and connected to a 30" ground rod that extends up to the bolted flange just above the ground surface or a minimum distance of 3" above the ground surface. The ground rod shall be taped to the fire hydrant barrel in at least four locations below the ground surface. The tracer wire shall be spliced only if approved by the engineer and all underground splices shall be inspected by the engineer prior to backfilling. The tracer wire system is considered to be a part of the price bid for water mains.

The contractor shall be responsible for testing the tracer wire system for conductivity. Testing for conductivity shall be completed prior to finish surfacing activities. If the tracer wire does not function as intended, the contractor shall repair the system to the satisfaction of the engineer and the City will charge \$50 per hour to retest the system with a minimum charge of \$50.

DISINFECTION, TESTING, AND OPERATION OF NEW MAIN

New water main shall be disinfected, have two passing bacteriological tests, at least 24 hours apart, and be pressure tested before the water main is put into service. The city will take the test sample and the contractor shall furnish a service line or other suitable location on the new pipe at which a sample can be collected. The contractor shall furnish the equipment necessary for the pressure test and shall conduct the test in the presence of someone from the City Engineering Department staff. New mains shall be installed and disinfected before any of the service lines are reconnected from the old main to the new main. New mains will not be put into operation without city approval.

SANITARY SEWER

MANHOLE EXTERNAL FRAME SEAL

The furnishing and installing of the manhole frame seal shall be paid for under replace and adjust manhole rim and cover bid item. Full compensation for furnishing and installing of the complete manhole frame seal and all appurtenances necessary for the proper installation of the manhole frame seal for the manhole.(See section 210 of the City of Yankton standard specifications for sanitary sewer mains, service lines and appurtenances for approved products list.)

MANHOLE EXTERNAL JOINT SEALS

Manhole external joints seals, meeting the requirements of ASTM C877 Type III, shall be used on all manhole joints unless otherwise specified. Manhole external joint seals shall be Infi-Shield Gator Wrap as manufactured by Sealing Systems Inc., WrapidSeal as manufactured by CANUSA-CPS, or an approved equal. The external joint seal materials shall be compatible with City of Sioux Falls Standard 48 inch diameter RCP manholes and shall be a minimum of 9 inches wide.

Manhole external joint seals shall be considered incidental per manhole regardless of depth or

PAVING & RESTORATION NOTES

GEOTEXTILE FABRIC FOR SUBGRADE STABILIZATION

Geotextile fabric shall be installed at locations designated by the engineer underneath the granular base course. The bid item GEOTEXTILE FABRIC has been established to pay for all labor, equipment and material to install the fabric.

Pay quantities for the geotextiles will be paid for at the contract price per square yard in place. Measurement for payment excludes the geotextile used for overlapping as well as seam overlaps. Installation shall be in accordance with the manufacturer's recommendations. Overlap shall be a minimum of 24". The end of the roll shall overlaps shall be 3' min.

The contractor shall not drive equipment directly on top of the geotextile. Should the geotextile be torn or punctured, the damaged area shall be repaired or replaced by the contractor at no expense to the owner. The repair shall consist of a patch of the same type of geotextile a minimum of 3' from the edge of any part of the damaged area. Geotextile fabric shall conform to the requirements listed below. The contractor shall provide a certificate of compliance verifying that the material meets the specification prior to the installation of the fabric.

- 1. Wide Width Tensile Strength (ASTM D-4595) 3600lb/ft min.
- 2. Wide Width Tensile Strength at 5% Strain(ASTM D-4595) 1350 lb/ft min.
- 3. Permittivity (ASTM D-4491) 0.25 sec-1 min.

- 2. Propex Getotex 3x3
- 3. Lumite GTF465

AGGREGATE BASE COURSE

Aggregate Base Course will be supplied by the City of Yankton. Material can be obtained at City stockpile site located at 23rd and Kellen Gross Dr. This material is to be weighed before leaving landfill. The Contractor is to supply his own personnel and equipment to load trucks. Landfill hours are from 8am to 3:45pm. This material to be used under all newly placed concrete /asphalt and to maintain access to intersecting streets and driveways as needed. Unit price shall constitute full compensation for personnel and equipment to load, haul, and place material. Aggregate Base Course shall be compacted to 95% of standard proctor density.

SURFACING THICKNESS DIMENSIONS

Except as hereinafter set forth, plans square yards will be applied even though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans square yards will not be varied to achieve the required elevation.

"8" NONREINFORCED CONCRETE PAVEMENT

The Coarse Aggregate shall be Crushed Ledge Rock.

The fine aggregates may require screening as determined by the Engineer.

The concrete for the nonreinforced PCC shall be of an approved job mix. The mix design shall be submitted three weeks prior to and approved prior to any concrete placement. The design mix shall meet a minimum 4000 PSI compressive strength in 28 days.

Concrete used in Portland cement concrete pavement shall have a minimum cementitious material content of 600 pounds per cubic yard, with a fly ash content of 25%. Any variations must be approved in writing by the Engineer prior to any concrete placement. Fly ash shall be class F and shall meet the requirements of Section 605 of the SDDOT Standard Specifications for Roads and Bridges. The maximum allowable water/cement ratio shall be 0.42.

In lieu of an automatic grader operating from a preset line, a motor grader or other suitable equipment may be used to bring the base course to final grade prior to placement of the

A construction joint shall be sawed whenever new concrete pavement is placed adjacent to existing concrete pavement.

There will be no direct payment for trimming of the Base Course for PCC pavement. The trimming will be considered incidental to the related items required for PCC pavement. Trimming shall be performed as required by Section 380.3c of the Standard Specifications.

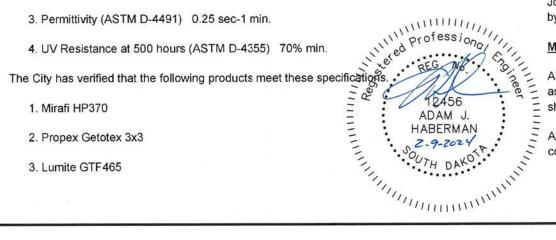
An automated paving machine such as a Bidwell, or equivalent, shall be required for main line paving. An air or vibratory screed will not be allowed for main line paving.

Joints to be sealed shall be thoroughly sandblasted, clean and dry as required by Section 380 P.

MANHOLE ADJUSTMENT

All costs for adjustment of the sewer manhole frame and lid to finished grade including removal and repair upper courses of brick or concrete, grouting, water-proofing and adjustment rings shall be incidental to the contract unit price per each for "Adjust Manhole".

All existing rims & covers will be replaced with Neenah R1733 frame and lid. The lids shall contain concealed pick holes and be equipped with a gasketed self-sealing type covers.



PROJECT	SHEET NO.	TOTAL SHEETS
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NOTES		

STEEL BAR INSTALLATION

The Contractor shall install Steel No. 5x24" epoxy coated deformed tie bars into drilled holes in the existing concrete pavement. An epoxy resin adhesive must be used to anchor steel bars in the drilled holes.

The steel bars shall be cut at the specified length by sawing and shall be free from burring or other deformations. Shearing will not be permitted.

Epoxy resin adhesive shall be of the type intended for horizontal applications, and shall conform to the requirements of ASTM C 881, Type 1, Grade 3 (equivalent to AASHTO M235, Type 1, Grade 3).

The diameter of the drilled holes in the existing concrete pavement for the steel bars shall not be less than 1/8 inch nor more than 3/8 inch greater than the overall diameter of the steel bar. Holes drilled into the existing concrete pavement shall be located at mid-depth of the slab and true and normal. The drilled holes shall be blown out with compressed air using a device that will reach to the back of the hole to ensure that all debris or loose material has been removed prior to epoxy injection.

Mix the epoxy resin as recommended by the manufacturer and apply by an injection method approved by the Engineer. If an epoxy pump is utilized, it shall be capable of metering the components at the manufacturers designated rate and be equipped with an automatic shut-off. The pump shall shut off when any of the components are not being metered at the designated rate. Fill the drilled holes 1/3 to 1/2 full of epoxy, or as recommended by the manufacturer, prior to insertion of the steel bar. Care shall be taken to prevent epoxy form running out of the horizontal holes prior to steel bar insertion. Rotate the steel bar during installation to eliminate voids and ensure complete bonding of the bar. Insertion of the bars by the dipping method will not be allowed.

Cost for the epoxy resin adhesive, steel bars, drilling of holes, applying the adhesives, installing the steel bars into the drilled holes and all other items incidental to the installation of the steel bars shall be included in the contract unit price per each for "Install Steel Bar in Concrete Pavement". profession

profession

Steel have shall be installed at the following locations:

Steel pars shall be in	istalled at the following locations:	Illed Floring Ill
LOCATION	#5 BARS EACH	DEG NO . CO
7+25	24	(2A56 ADAM J.
16+65	24	HABERMAN :
22+75	24	SOUTH DAKOTA
29+38	25	The state of the s

CONCRETE SIDEWALK

Concrete sidewalk shall be constructed in accordance with Section 651 of Standard Specifications. Base Course material, two (2) inches thick, shall be placed beneath the sidewalk.

CURING OF CONCRETE

Portland Cement Concrete Pavement, Concrete Curb & Gutter, Sidewalks, Valley Gutters, and Fillets shall be cured. All concrete shall be cured in accordance with section 380.3.P2 of the 2015 SDDOT Standard Specifications for Roads and Bridges except as modified in this note. All concrete shall be cured with a White Pigmented Linseed Oil Base Emulsion Compound when cured using the Impervious Membrane Method. Curing compound material shall be in accordance with section 821.1.D.

CONCRETE JOINT SEALER

Concrete Joint Sealer shall be hot poured elastic joint sealer and shall conform to section 870 of the Standard Specifications. Payment for concrete joint sealer shall be incidental to PCC Pavement and no separate payment shall be made.

DETECTAVLE WARNING PANEL

In order to comply with the Americans with Disabilities Act (ADA), detectable warning panels are to be placed at locations designated in the plan set. Detectable Warnings consist of a composite or polymer type of panel and should be installed into wet concrete. Surface applied products that are applied to cured concrete are not allowed. The detectable warnings shall be a brick red color for application in concrete curb ramps.

Current detectable warning panels approved for use and installation within the public right of way are:

Manufacturer

Product	Manufacturer
Armor Tile	Engineered Plastics Inc.
Modular Paver Series	300 International Drive, Suite 100
	Williamsville, NY 14221
	800-682-2525
	http://www.armor-tile.com/
Detectable Warning Tile	ADA Solutions, Inc.
Composite	323 Andover Street
Wet-Set	Wilmington, MA 01887
	800-372-0519
	http://www.adatile.com

Other detectable panels, meeting the necessary requirements may be allowed with written approval from the City Engineer's Office. In no case will the stamping of concrete be allowed as a method of creating the domes on the tactile warning panels.

SALVAGING, STOCKPILING, AND PLACING TOPSOIL

Existing vegetation shall be salvaged, incorporated and placed with the topsoil as far as practicable.

The areas to be covered with topsoil to a depth of +/- 3 inches comprise all newly graded areas. Material shall be free of rock and debris.

The estimated amounts of salvaged topsoil required to cover the designated areas to the specified depth are as follows:

Table of Topsoil	Cu.Yd.
8 TH STREET	"305"

SEEDING

All grass areas disturbed by construction are to be hydro-mulched. Lump sum price will be for all areas disturbed by Contractor. Price shall also include the cost for fertilizer and fiber mulch, refer to SD-DOT Standard Specs 2015 Edition section 730 and 731. The following will be provided, by the Contractor, for use on the project unless an alternate is approved by the Engineer.

The estimated amount of area to be seeded: "32919 ft sq"

SEED MIXTURE	PURE LIVE SEED/ 1000 FT. SQ.
Kentucky Bluegrass	1 pound
Perennial Rye Grass	1 pound
Park Kentucky Bluegrass	1 pound

FERTILIZER AND MULCHING

Fertilizer shall be a guaranteed analysis of 12-24-6. Rate applied shall be 3.2 lbs. per 1000 S.F. All areas shall be wood fiber mulched at a rate of 50 lbs./1000 S.F. with tackifier at a rate of 1.5lbs./1000 S.F. Method of payment will be incidental to the seeding lump sum bid price. Refer to SD-DOT Specs. 2015 Edition-section 731 and 732 for additional requirement for fertilizer and fiber mulch.

PRIVATE SPRINKLER SYSTEMS

Private sprinkler systems that are located within the construction limits. The City will notify all property owners about the expected construction and the procedures for preparing their systems for construction. When found, the Contractor shall notify the Engineer and take reasonable measures to minimize any damage to the system. It will be the responsibility of the City to pay the property owner's sprinkler contractor directly for repairs. The Contractor will be responsible for any damaged due to Contractor's negligence.

The Contractor shall notify the Engineer when the sprinkler system can be restored and the City will coordinate with the property owner and sprinkler contractor. The system should be restored before seed or sod placement and the Contractor shall make reasonable accommodations to allow for the homeowner's sprinkler contractor to make final repairs and adjustments.

WATERING

Water for compaction is incidental to other pay items. Water from city fire hydrants is to be metered and paid for by Contractor.

MAILBOXES

Remove, Salvage, and Reinstall mailboxes at the following STA:

9+52.5 - 36'LT	10+46 - 33.5'LT	14+22 - 30'LT
15+17.5 – 31'LT	15+90.5 – 30.5LT (TRAILER	COURT 13 MAILBOXES)
18+25 – 21.5'LT	19+91 – 19'LT	21+37 - 19.5'LT (3 MAILBOXES)
22+99 – 19.5'LT	23+89.5 – 19.5'LT	24+90 - 19'LT (2 MAILBOXES)

25+87 - 17'LT (3 MAILBOXES)

Provide 29 mailboxes for temporary delivery during project. See Traffic Control sheets 13 and 14 for location of mailboxes. See sheet 72 for mailbox placement requirements.

TEMPORARY BYPASS PUMPING

It is anticipated that bypass pumping will be necessary for the installation of MH#1, MH#5, and MH#6. As there are several ways to accomplish this, it will be the contractor's responsibility to devise a plan to accomplish this task. Any proposal should meet SD DANR Standards and/or requirements. It shall be the Contractors responsibility to ensure that the bypass pumping system is sized appropriately to handle peak flow of the pipe. All costs associated with mobilization, setup, and maintenance of pumping operations, including pumps, piping, plugs, and all necessary appurtenances shall be incidental to the contract unit price per lump sum for the bid item "Temporary Bypass Pumping".

	PROJECT	SHEET	TOTAL
	2023-027	NO. 8	SHEETS 74
	SWPPP		
spection	Practices(Continued)		
ne fabric well and	I for depth of sediment and for tea is securely attached to the posts a chored. Sediment buildup will be e when it reaches 1/3 of the height	nd	
epth reac ity, and a be inspec	s will be checked. Sediment will be thes approximately 50 percent of the the conclusion of the construction ted for stability. Sediment will be the 1/2 the height of the dam.	he	
will be charge of significant aintenant inspection in the charge of the	necked for bare spots, washouts, a gnificant weed infestations. ce reports will be prepared on form on, this form will also be used to SWPPP. A copy of the completed	n DOT	
r and con spections he contra aintenan	d with the SWPPP documents. Intractor's site superintendent are s. Maintenance, repair activities and actor. The City Engineer will complete reports and distribute copies per poor 298.	lete the	
hat apply vater line vater, wh have occ	charges are anticipated during the). flushing. ere no spills or leaks of toxic or curred.	course	
ground w	ater associated with dewatering		
on period s "EROS	nces are expected to be present on I. These materials will be handled ION AND SEDIMENT CONTROLS that apply).	as	
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ADAM J.
HABERMAN

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OUTH DAKOT

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)

*	SITE	DE	cc	IDT	ION	11 2	1

- Project Limits: See Title Sheet (4.2 1.b)
- Project Description: See Title Sheet (4.2 1.a.)
- > Site Map(s): See Title Sheet and Plans (4.2 1.f. (1)-(6))
- Major Soil Disturbing Activities (check all that apply)
 - Clearing and grubbing
 - ⊠Excavation/borrow
 - ⊠Grading and shaping
 - Filling
 - Cutting and filling
 - Other (describe):
- Total Project Area 4.5 acres (4.2 1.b.)
- Total Area To Be Disturbed 4 acres (4.2 1.b.)
- Existing Vegetative Cover (%) 15%
- Soil Properties: AASHTO Soil Classification
- (4.2 1. d.) Name of Receiving Water Body/Bodies Missouri River (4.2 1.e.)

♦ ORDER OF CONSTRUCTION ACTIVITIES (4.2 1.c.)

(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.)

- Special sequencing requirements (see sheet).
- Install stabilized construction entrance(s).
- Install perimeter protection where runoff sheets from the 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 and culvert protection after completing storm drainage and other utility installations.
- Complete final grading.
- Complete final paving and sealing of concrete.
- Complete traffic control installation and protection devices.
- Reseed areas disturbed by removal activities.

EROSION AND SEDIMENT CONTROLS (4.2 2.a.(1)(a)-(f))

(Check all that apply)

Stabilization Practices (See Detail Plan Sheets)

- □ Temporary or Permanent Seeding Sodding ☐ Planting
- Mulching (Straw or Cellulose Fiber)
- ☐ Erosion Control Blankets or Mats ☐ Vegetation Buffer Strips
- Roughened Surface (e.g. tracking)
- Gabions-Gabion Mattress
- Other

Structural Temporary Erosion and Sediment Controls

- Silt Fence
- Straw Bale Check
- ☐ Temporary Berm
- Temporary Slope Drain Straw Wattles or Rolls
- Diversion Channels/Swales
- Channel Liners (TRM)
- Stone Rip Rap Sheet
- Rock Check Dams Sediment Traps/Basins
- Outlet Protection
- ☐ Surface Inlet Protection
- Curb Inlet Protection
- ☐ Stabilized Construction Entrances
- ☐ 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 the USACE.

Storm Water Management (4.2 2.b., (1) and (2))

Storm water management will be handled by temporary controls outlined in Section 3 above, and any 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.

> Other Storm Water Controls (4.2 2.c., (1) and (2))

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 (4.2 3. and 4.2 4.)

Maintenance and Inspection Practices

- Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
- All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.

Maintenance and Ins

- Silt fence will be in order to ensure th that the posts are removed from the silt fence.
- Sediment basins removed when de structure's capaci
- Check dams will removed when de
- All seeded areas vigorous growth fi
- Inspection and ma 298 for each site document change inspection form w
- The City Enginee responsible for in responsibility of the inspection and ma distribution instru

Non-Storm Water Dis

The following non-storm v of this project (check all the

- □ Discharges from w
- Pavement wash-w hazardous materials
- ☐ Uncontaminated of activities.

Materials Inventory (

The following materials or site during the construction noted under the headings "SDILL DREVENTION" (C

O,	TEL I TEVENTION (CHECK all that a
-	□ Concrete and Portland Cement
-	Detergents

- Paints
- Metals
- ⊠Bituminous Materia
- ⊠Petroleum Based
- Cleaning Solvents
- Wood
- Cure Texture
- Chemical Fertilize
- Other

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SWPPP			

Spill Prevention (4.2 2.c.(2))

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 must be stored in original containers and labeled.
 - Material mixing will be conducted in accordance with the manufacturer's recommendations.
 - When 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 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, degreasing 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.

Product Specific Practices (6.8)

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 specified by the Plans. 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.

Product Specific Practices (6.8) (Continued)

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 (4.2 2 c.(2))

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 (4.2 2 c.(2))

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 Response (4.2 2 c.(2)) (Continued)

- 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 DENR.
- 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.

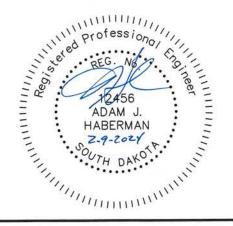
Spill Notification

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 DENR.

Construction Changes (4.4)

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 City Engineer will modify the SWPPP plan (DOT 298) and drawings to reflect the needed changes. Copies of changes will be routed per DOT 298. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.



♦ 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 Yankton

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 6.7.1.C.)

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 6.7.1.a .or b.)

PROJECT	SHEET NO.	TOTAL SHEETS
2023-027	10	74
CMDDD	7,5	

♦ CONTACT INFORMATION

Contractor Information:

- Prime Contractor Name:
- Contractor Contact Name:
- Address:
- Address:
- City

Zip:

Office Phone: Field: Cell:

State:

Erosion Control Supervisor

- Name:
- Address:
- Address:

City:

State:

Zip:

Cell:

Office Phone:

Fax:

Cell:

Fax:

City Engineer

- Name: Brad Moser
- Business Address: 416 Walnut
- Job Office Location 416 Walnut
- City: Yankton State: SD Zip: 57078
- Office Phone: 605-668-5255 Field:

Fax:

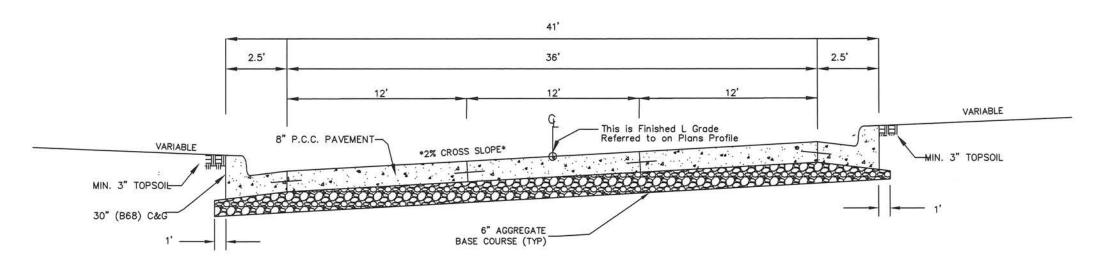
SD DENR Contact Spill Reporting

- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231
- SD DENR Contact for Hazardous Materials.
 - (605) 773-3153
- > National Response Center Hotline
 - **(800) 424-8802.**

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PROJECT		SHEET	TOTAL	
2023-0	27	11	74	
TYF	PICAL SEC	TION		

TYPICAL CROSS SECTIONS(n.t.s.) - 8TH STREET

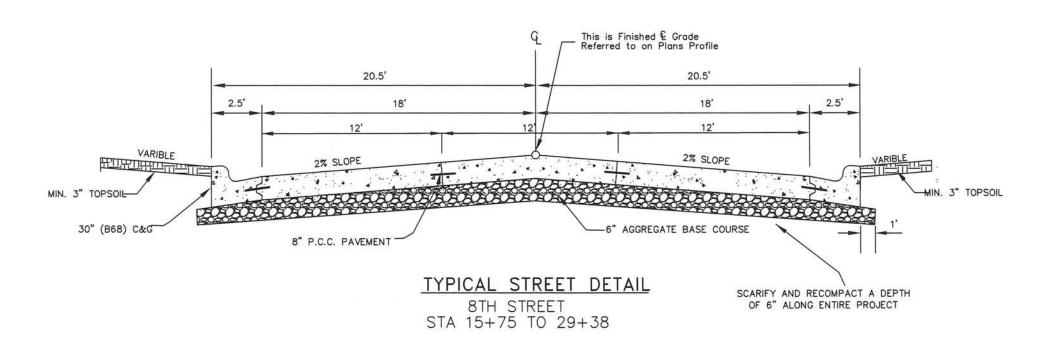


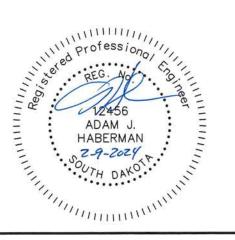
TYPICAL STREET DETAIL

8TH STREET STA 1+00 TO 15+00

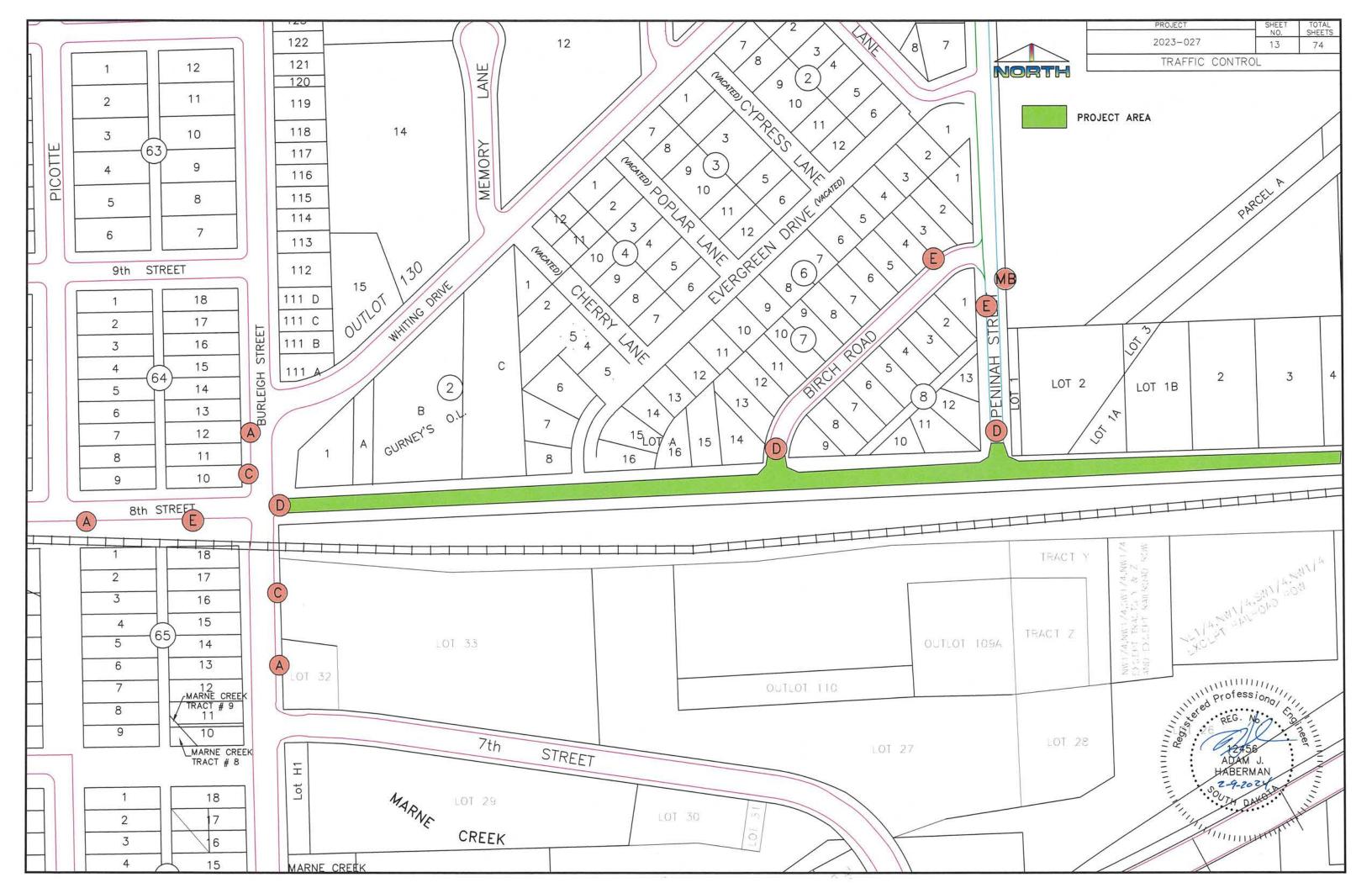
STA 15+00 TO 15+75 TRANSITION FROM CROSS SLOPE TO CROWN

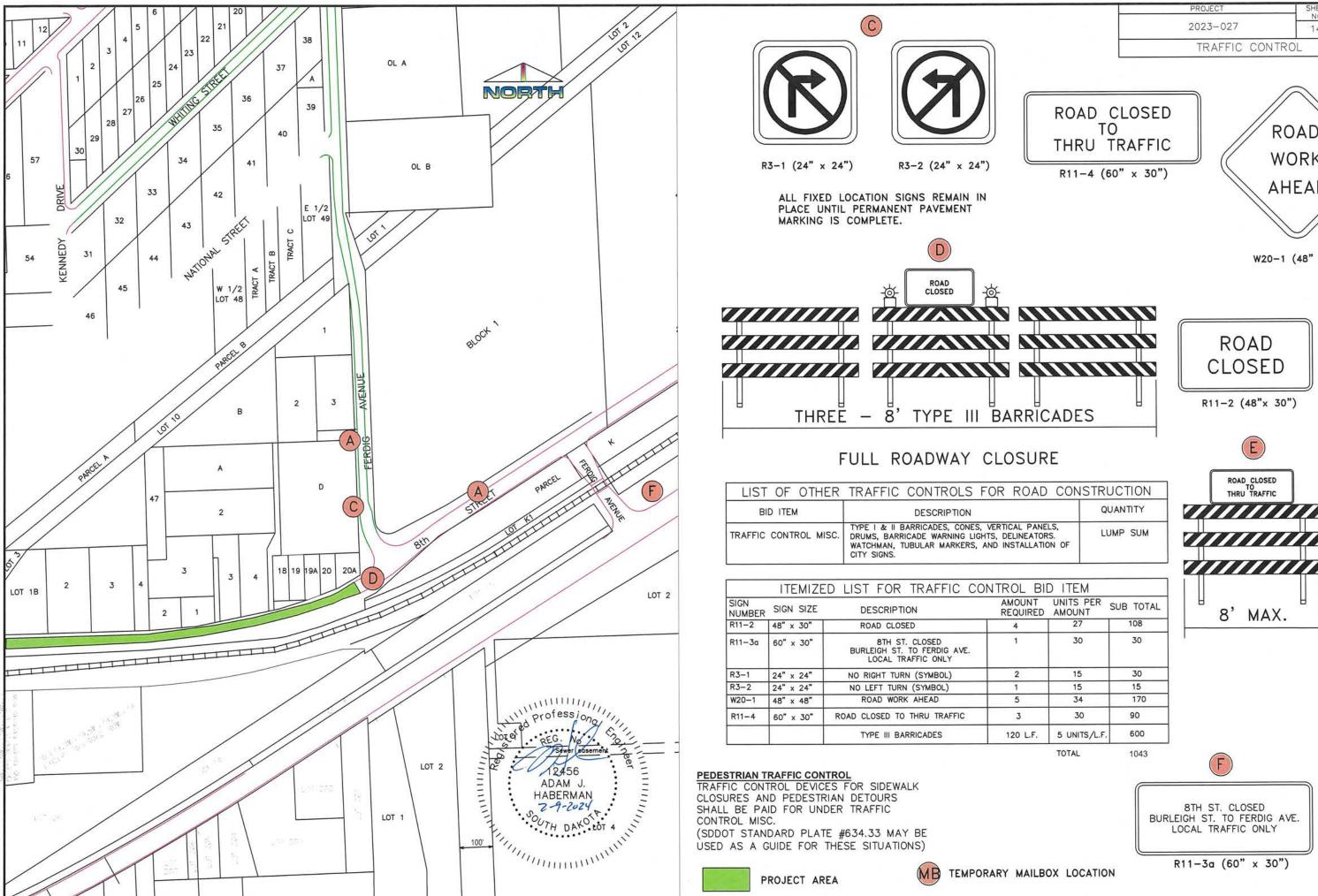
TYPICAL CROSS SECTIONS(n.t.s.) - 8TH STREET











74 14

TRAFFIC CONTROL



W20-1 (48" x 48")

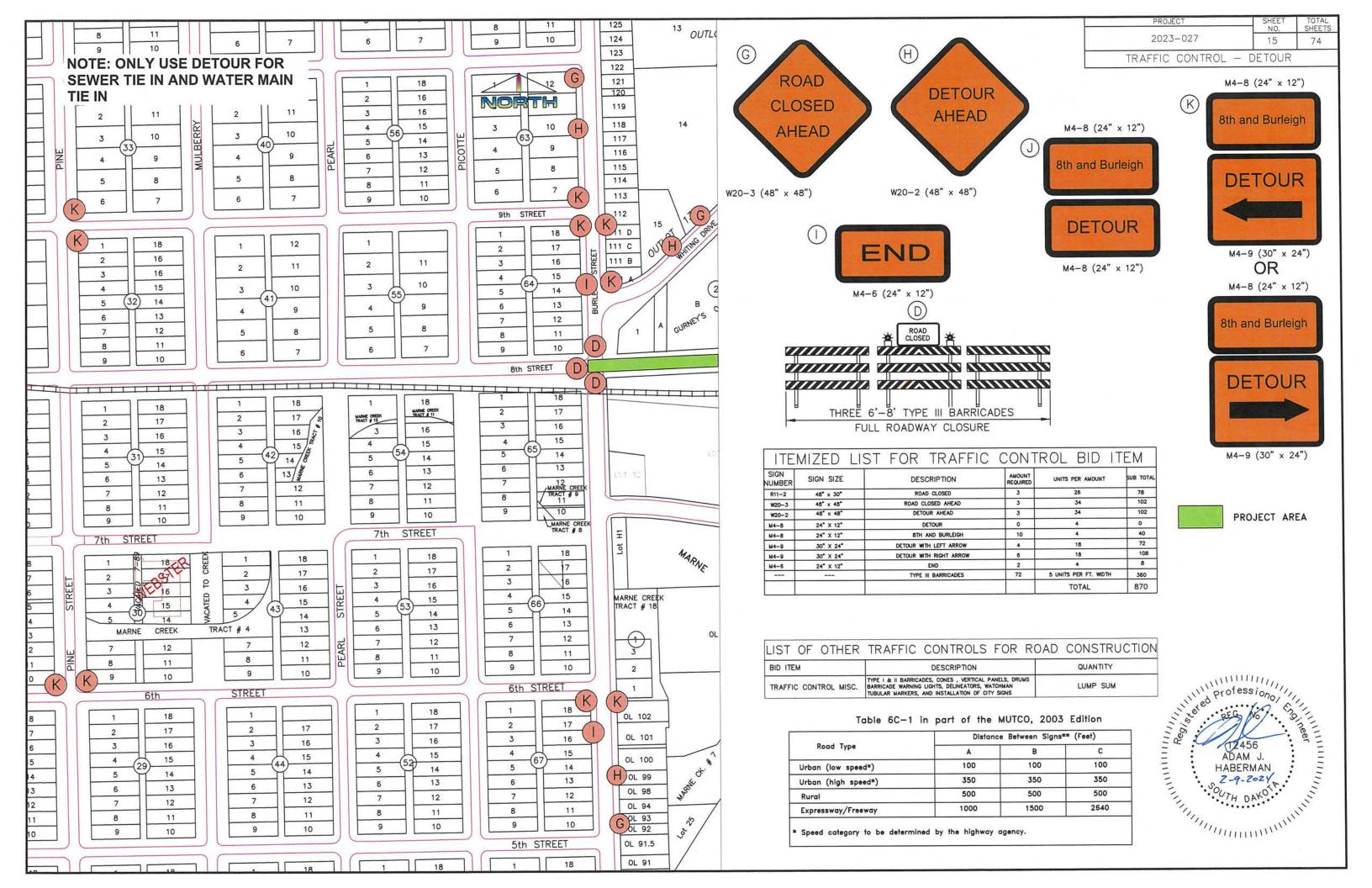
ROAD CLOSED

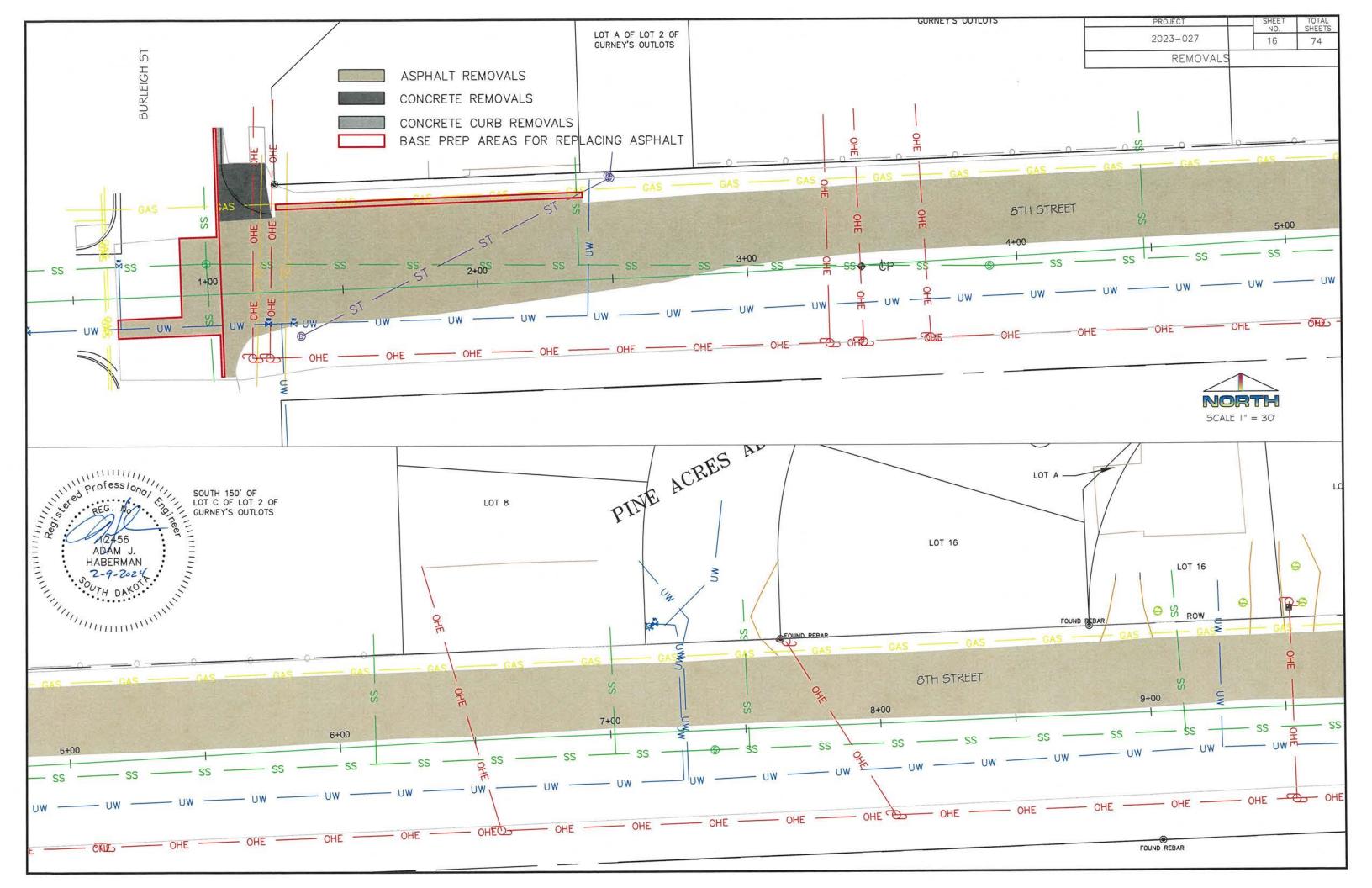
R11-2 (48"x 30")

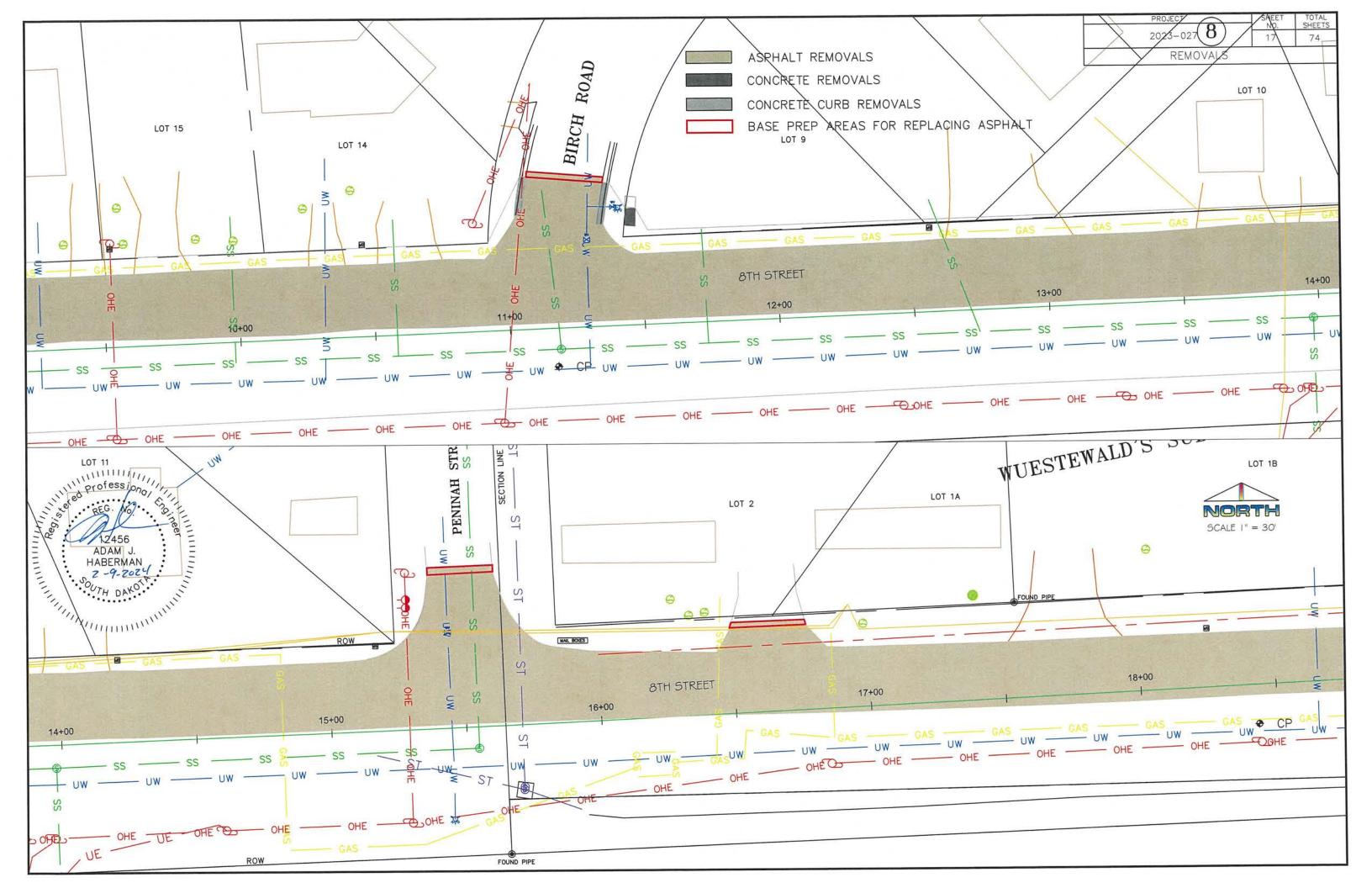
MAX.

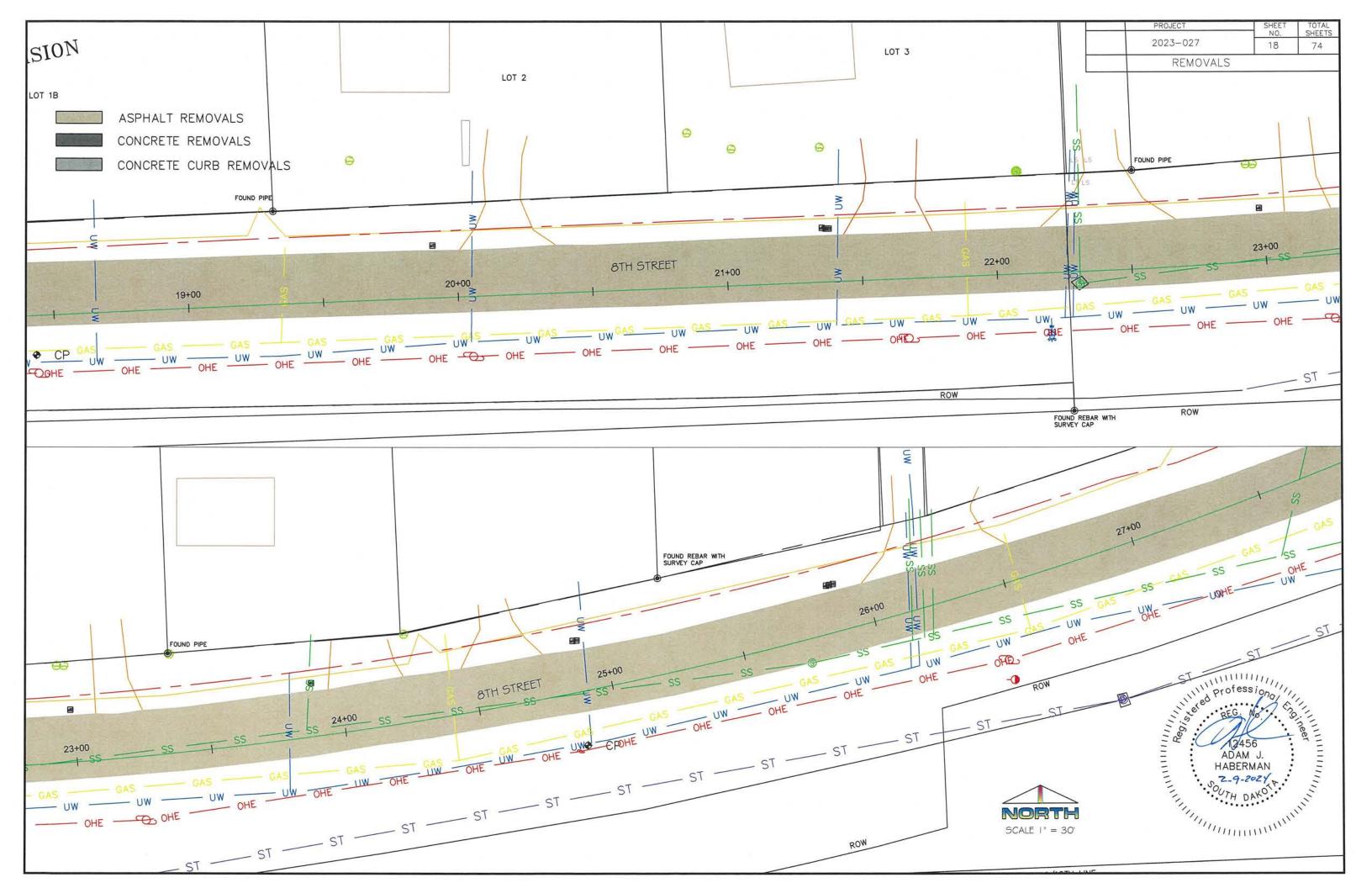
8TH ST. CLOSED BURLEIGH ST. TO FERDIG AVE. LOCAL TRAFFIC ONLY

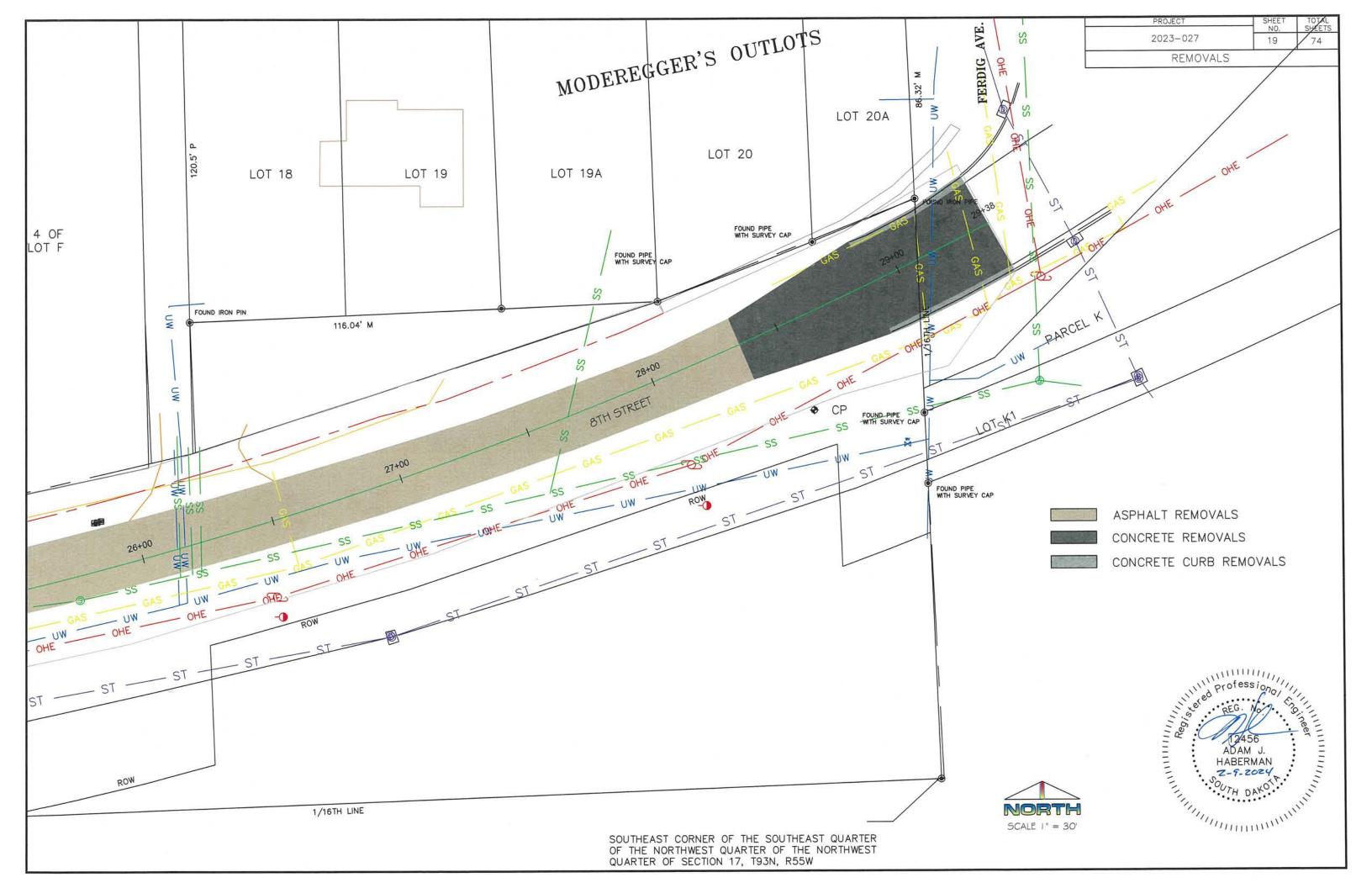
R11-3a (60" x 30")

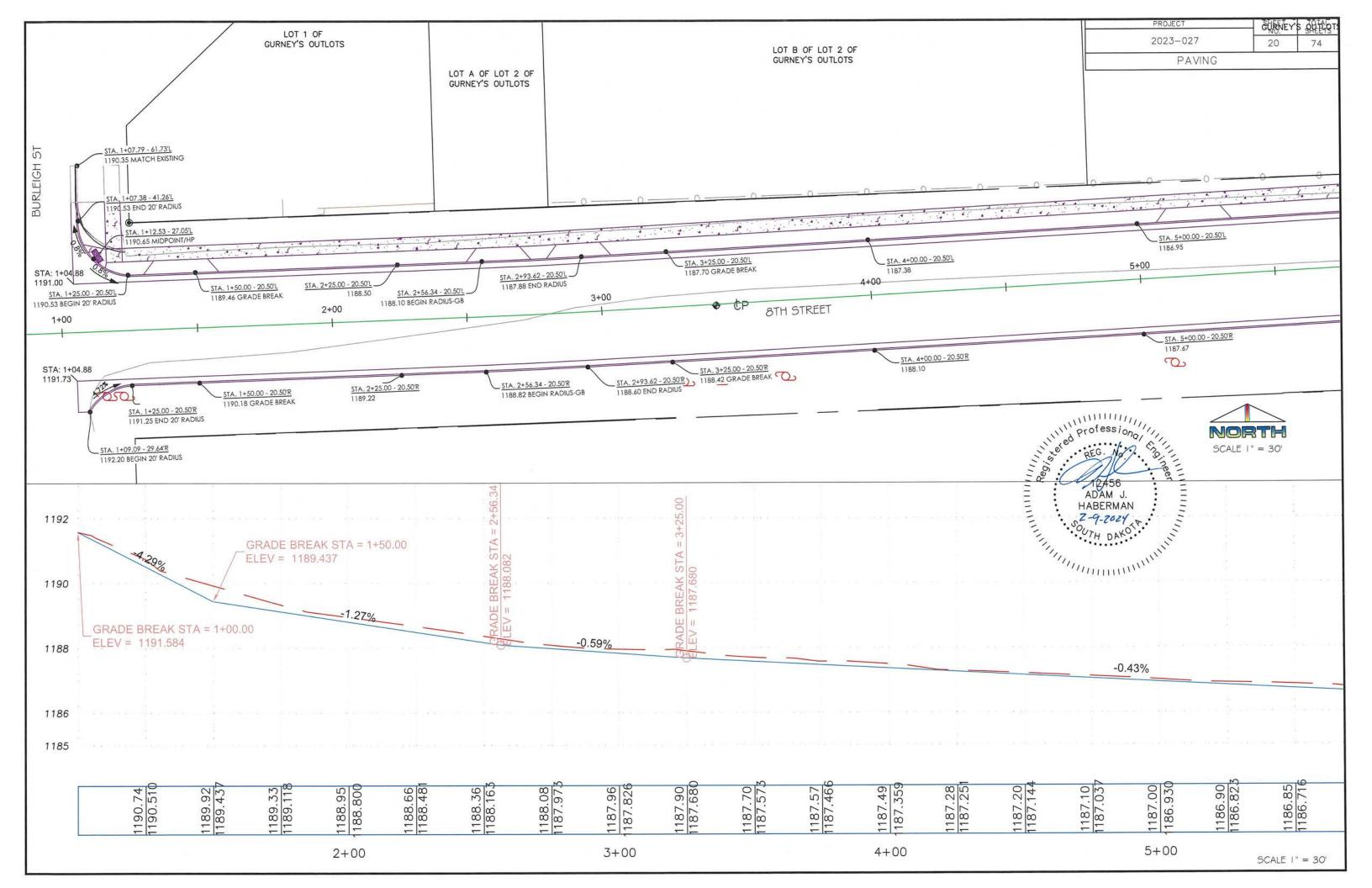


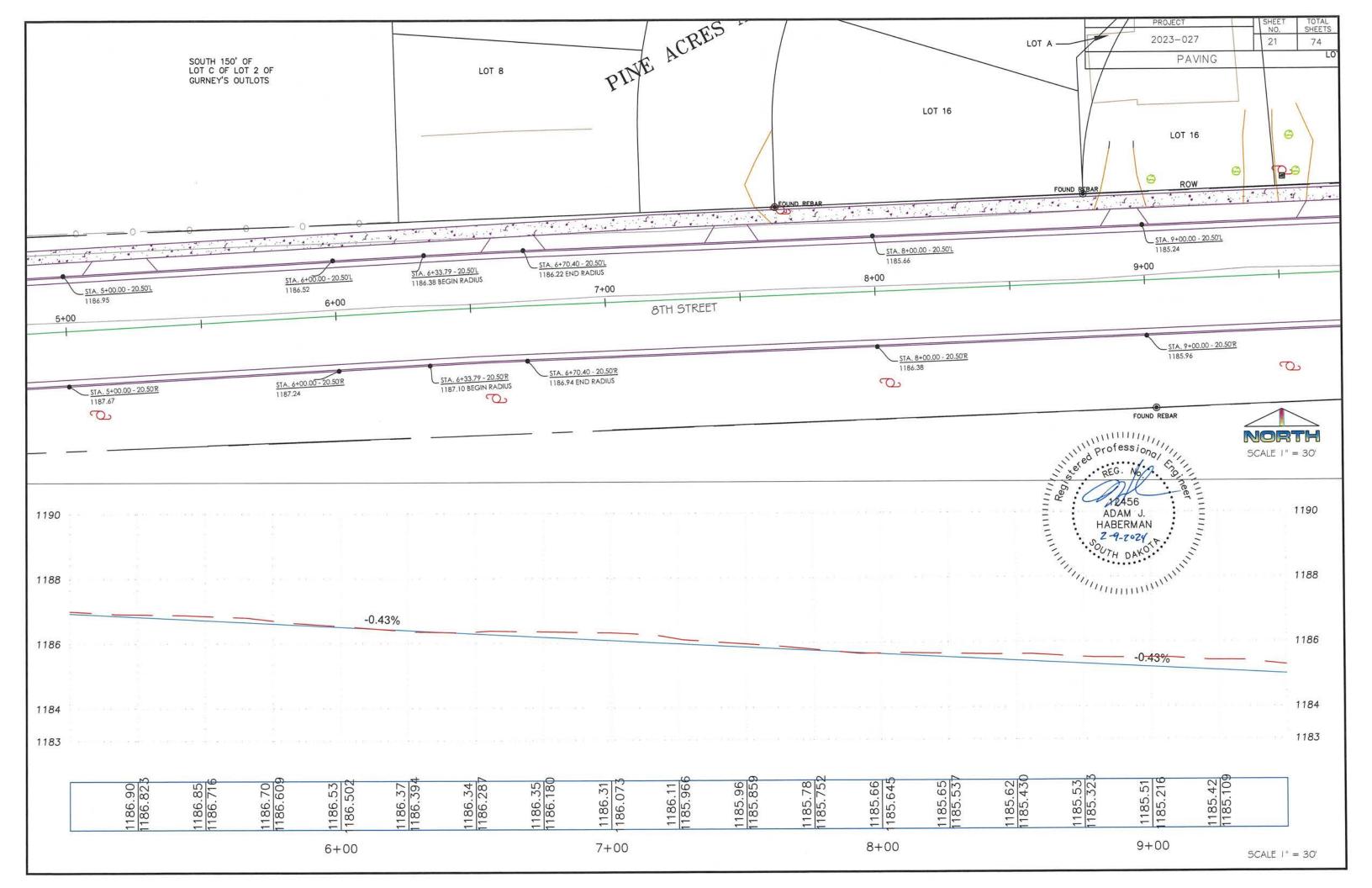


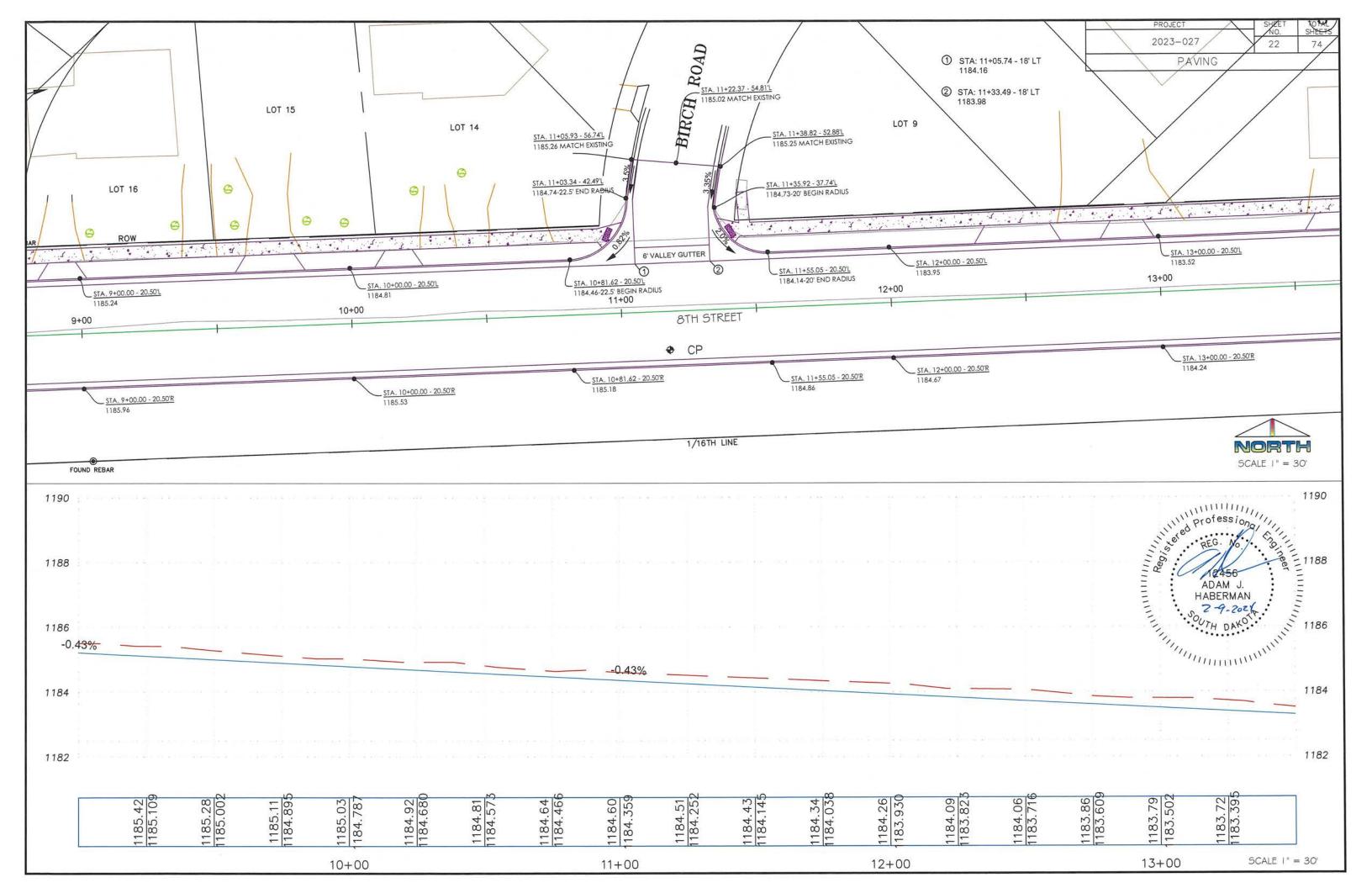


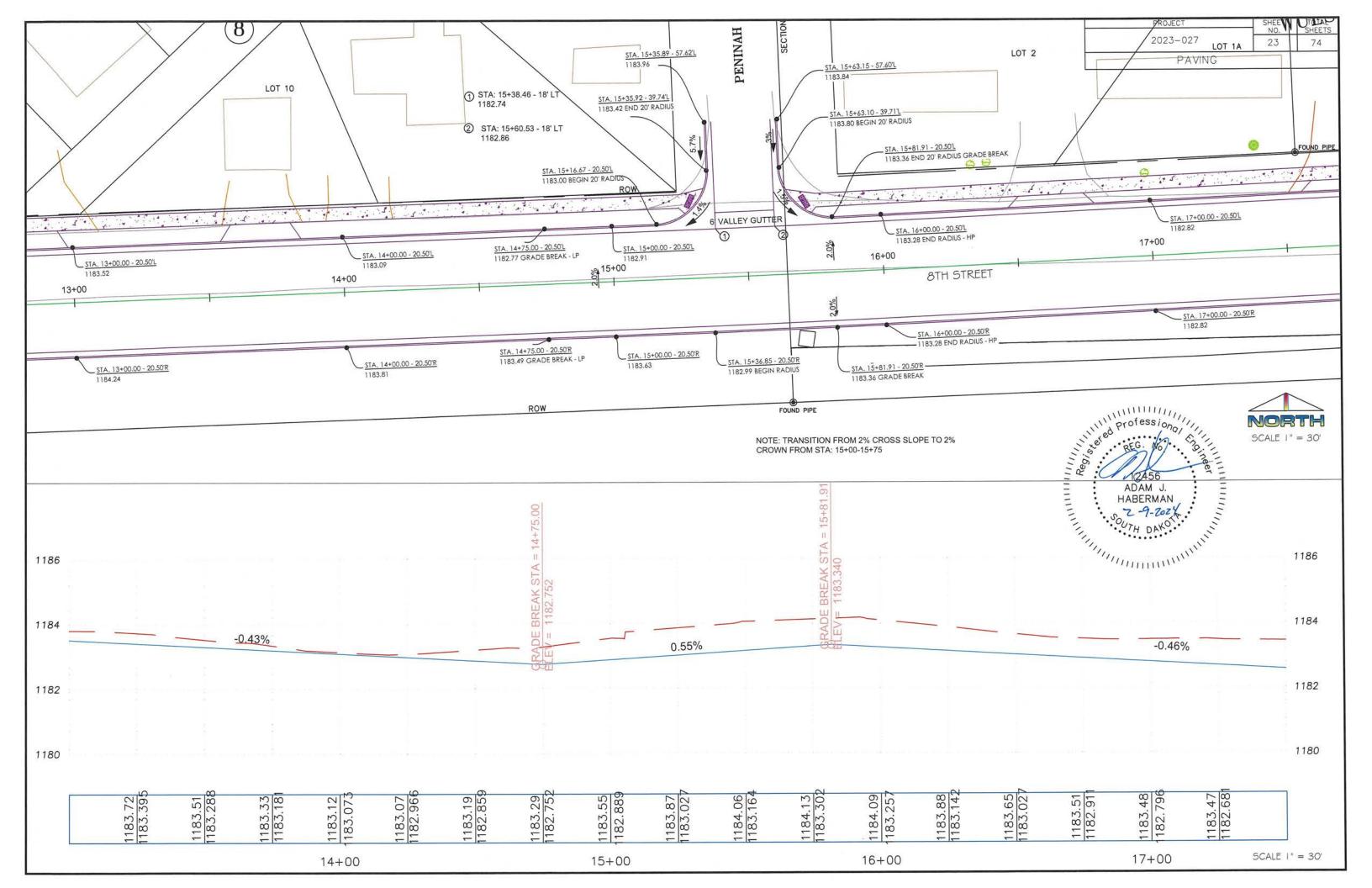


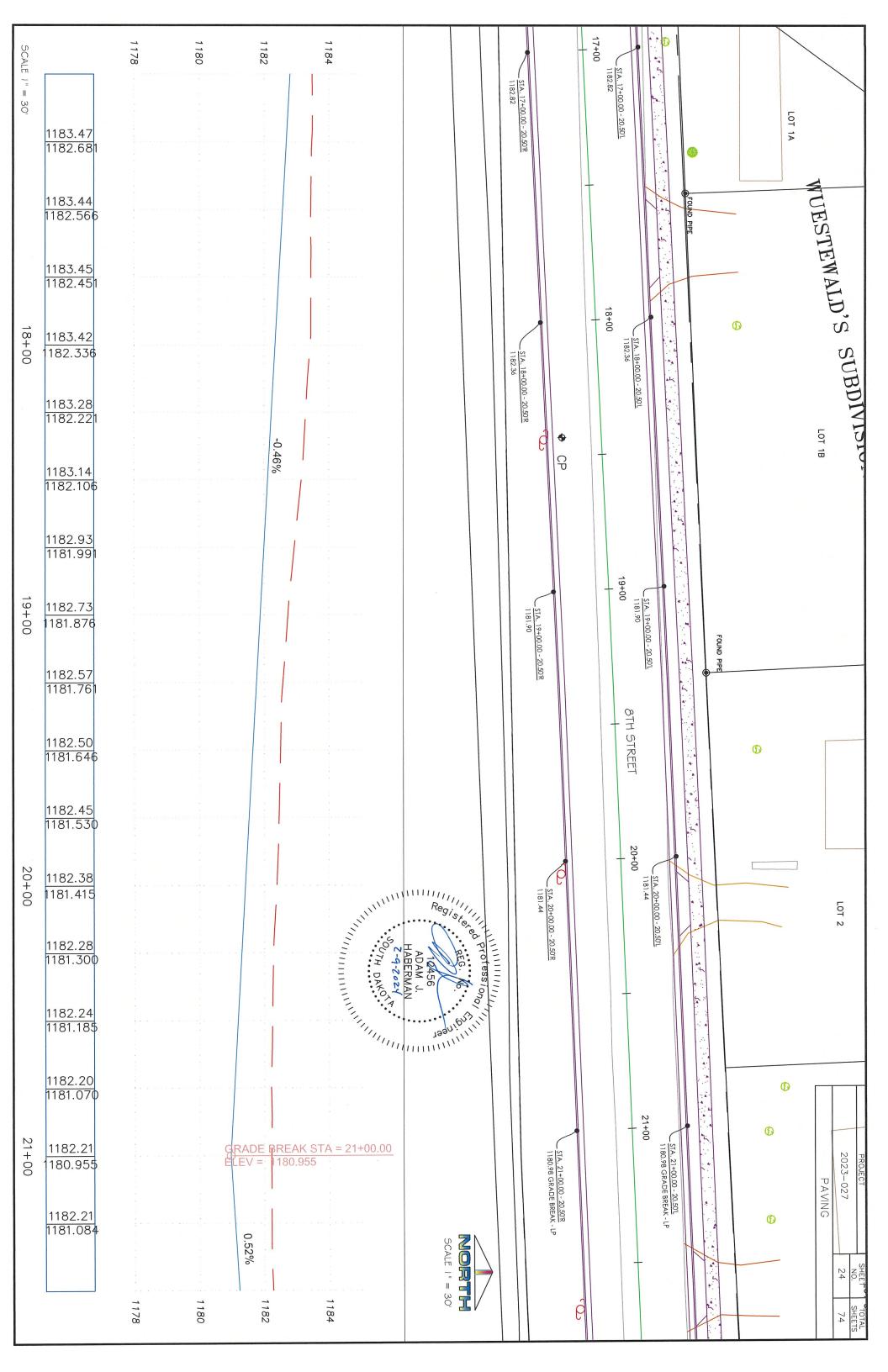


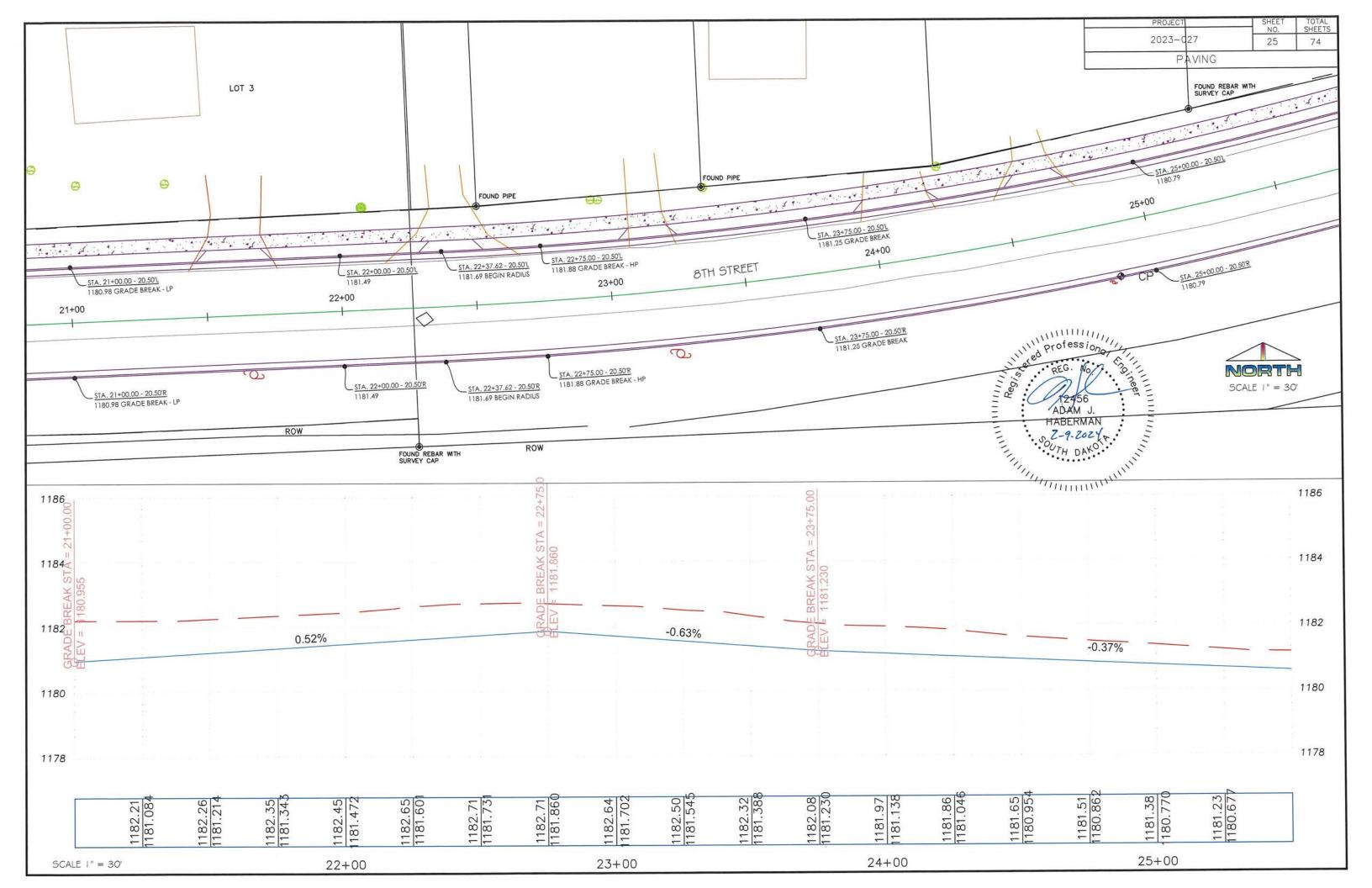


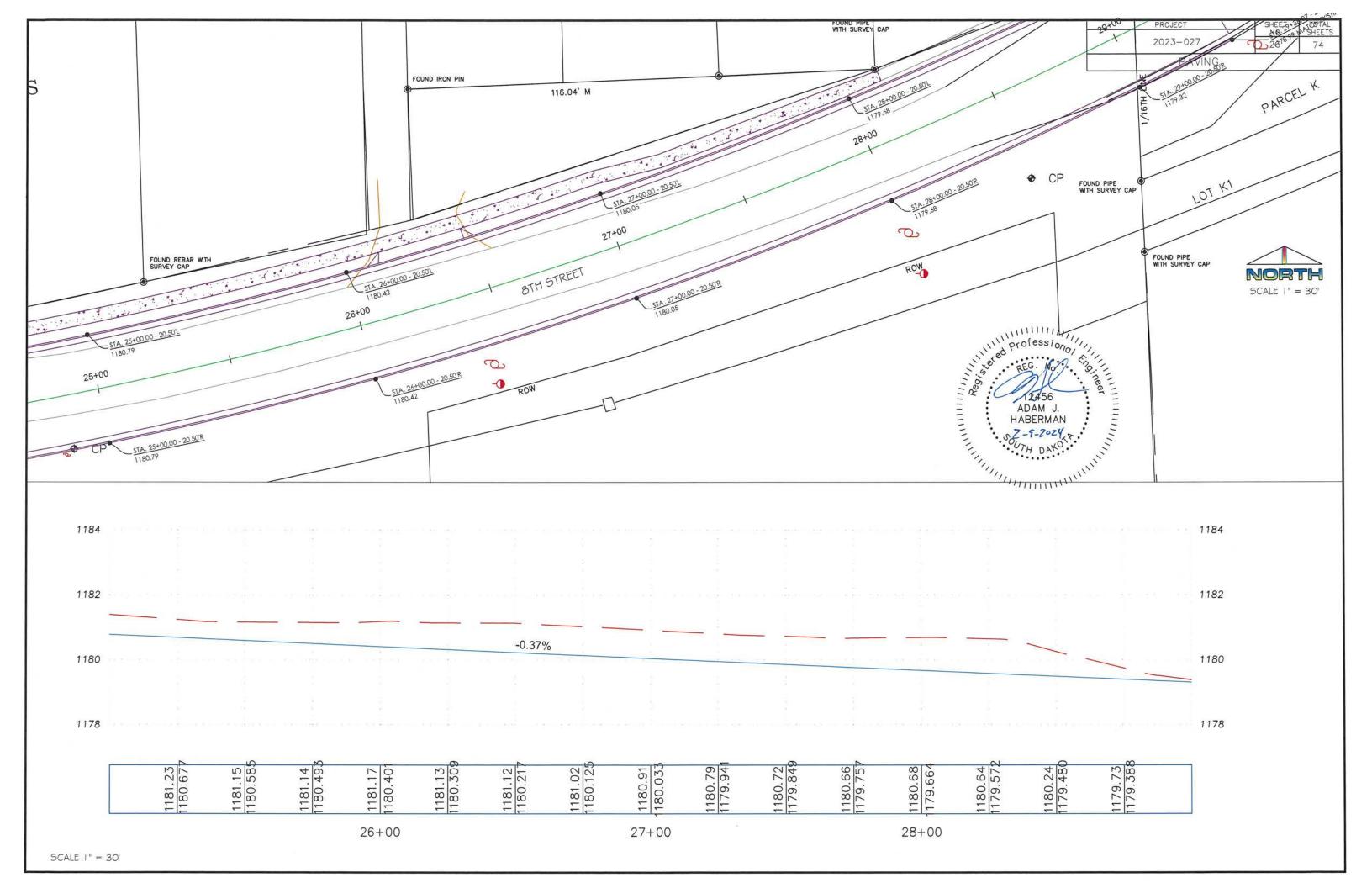


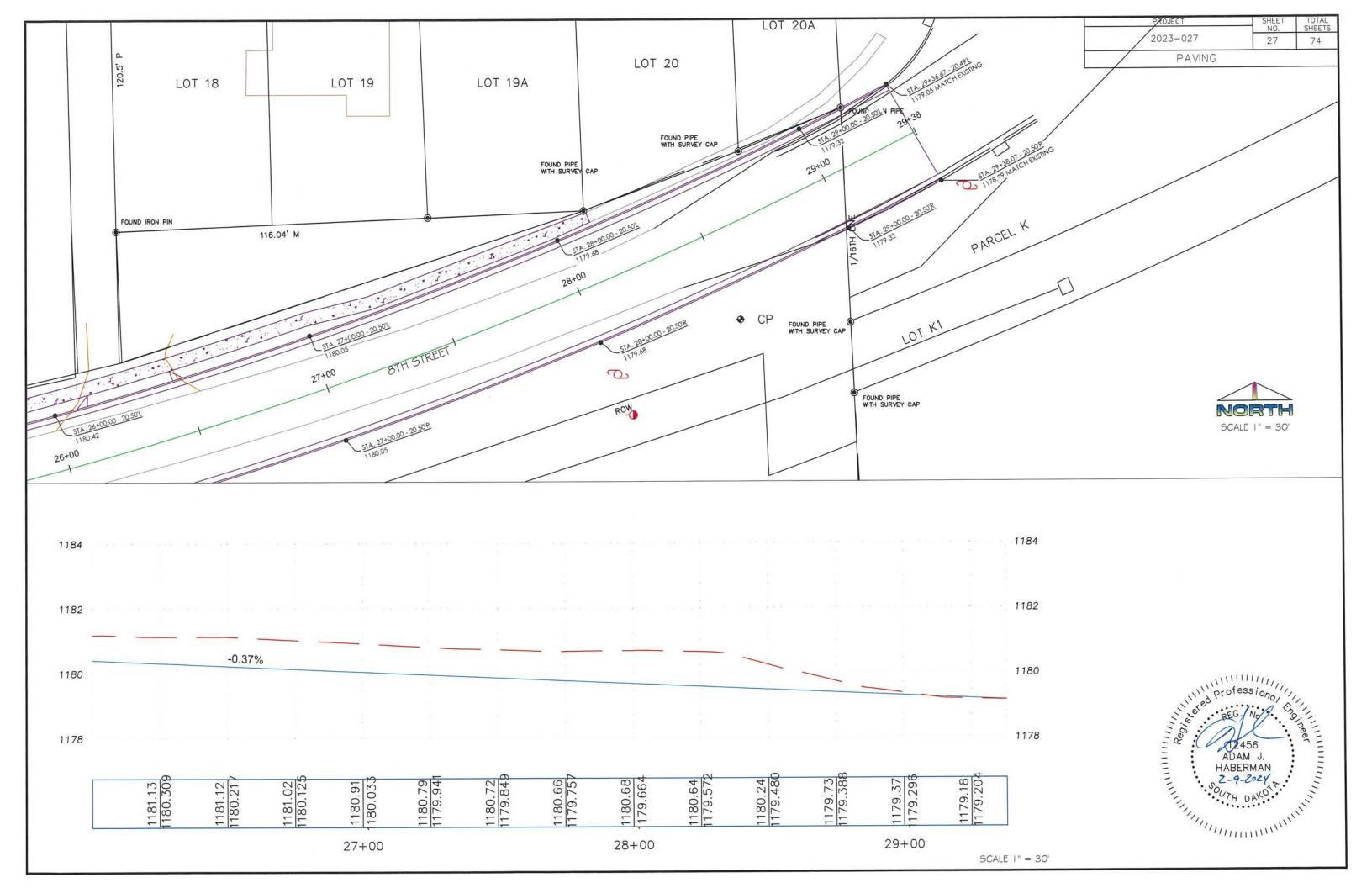


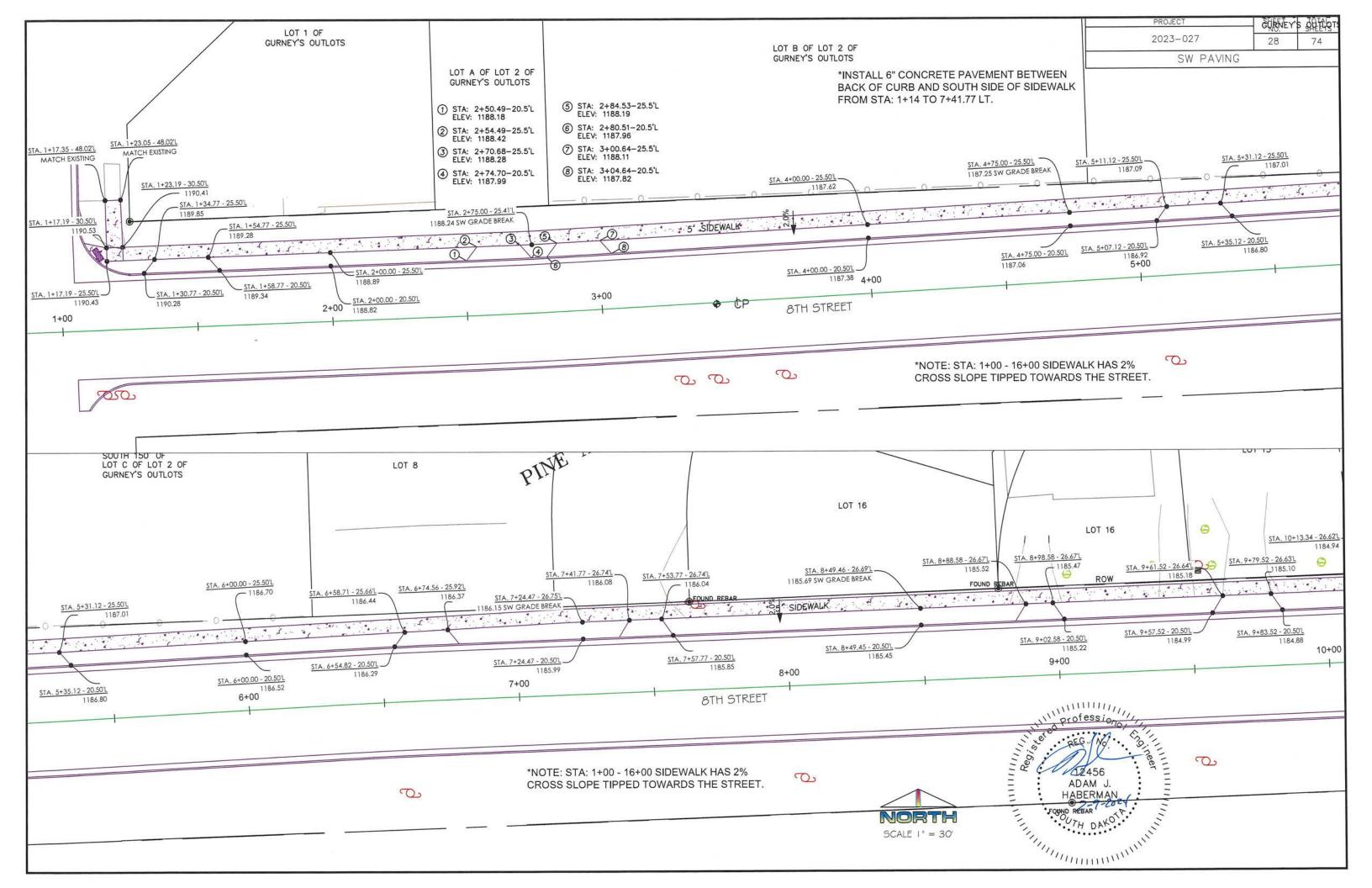


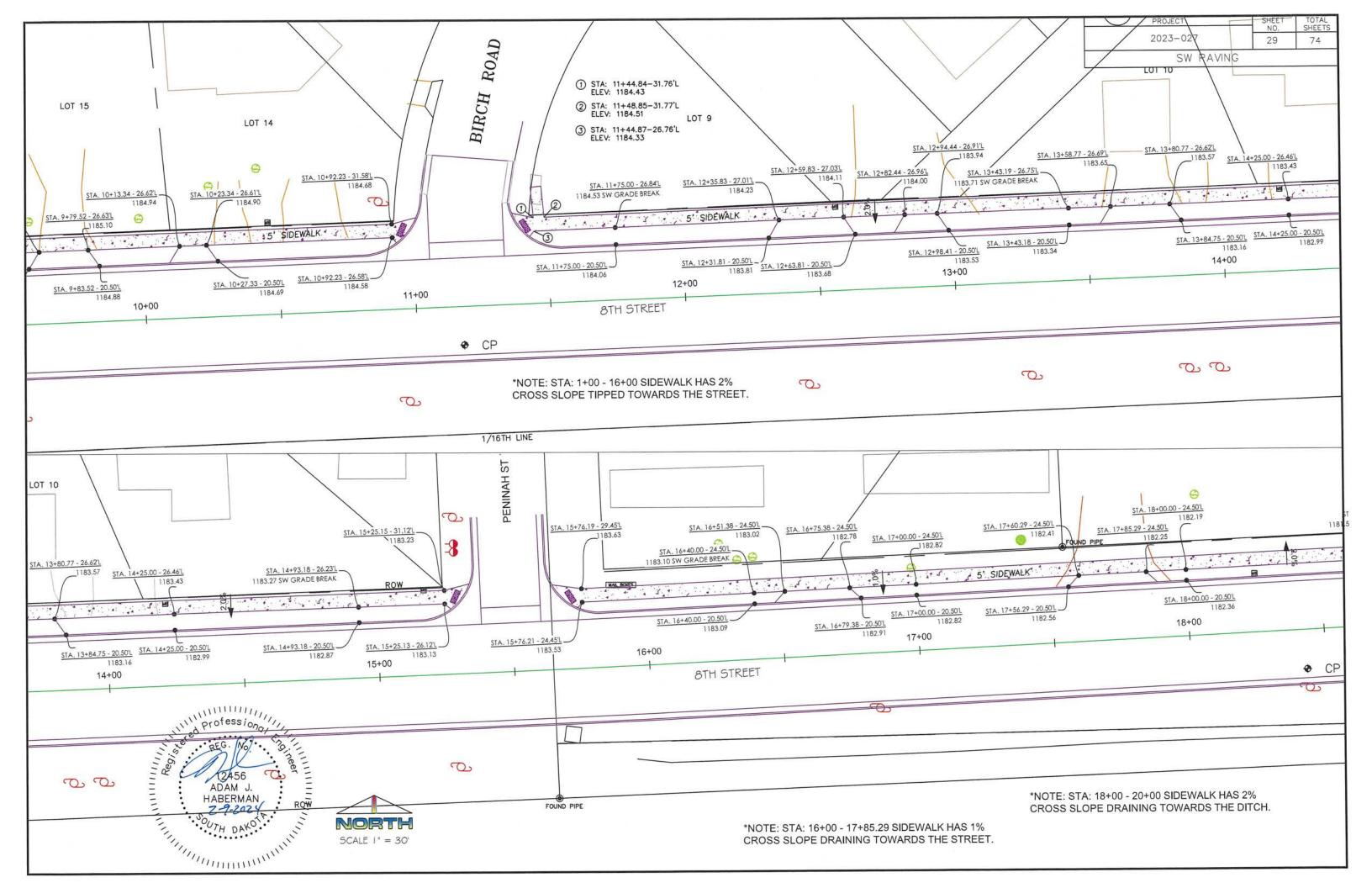


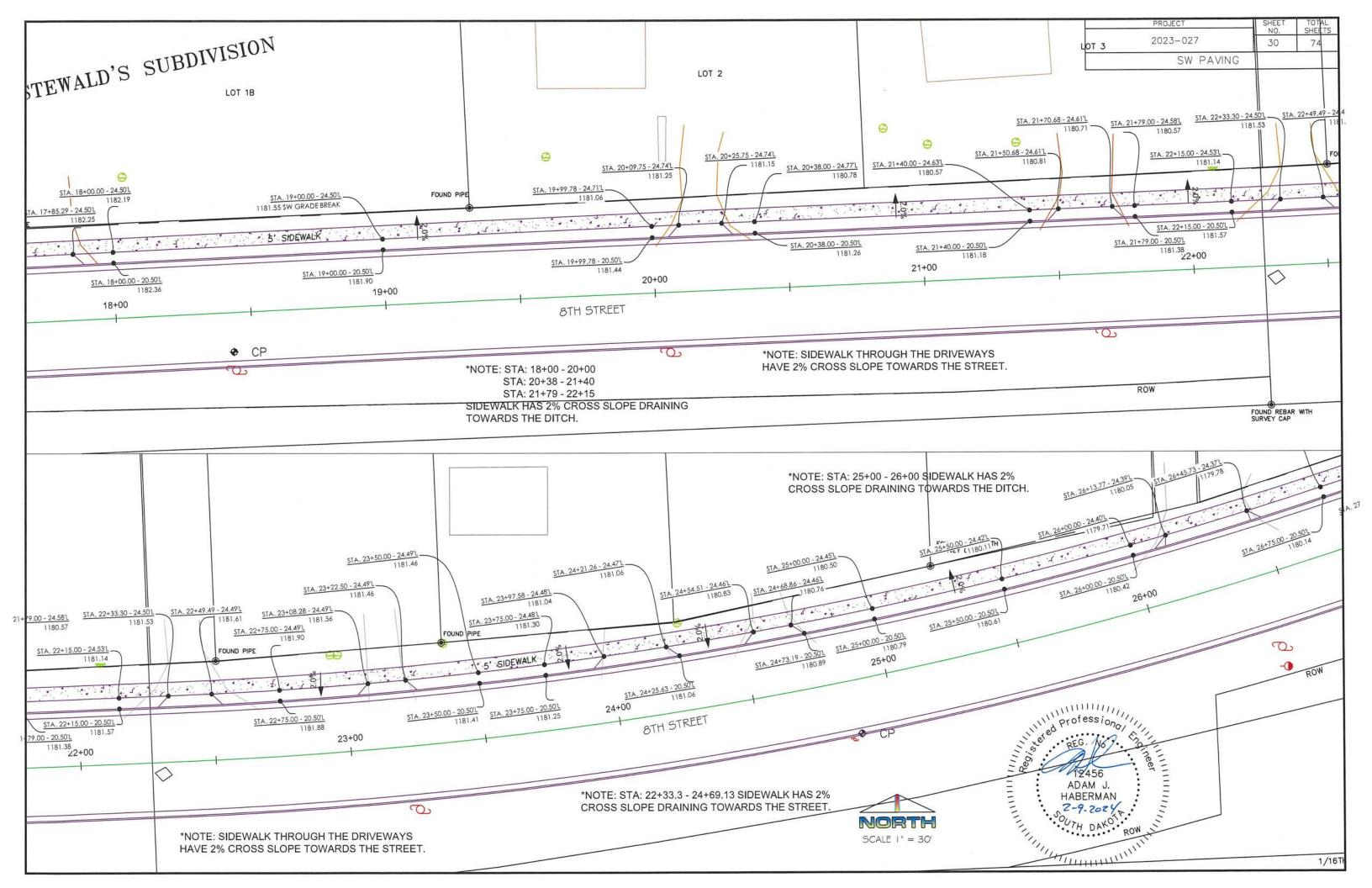


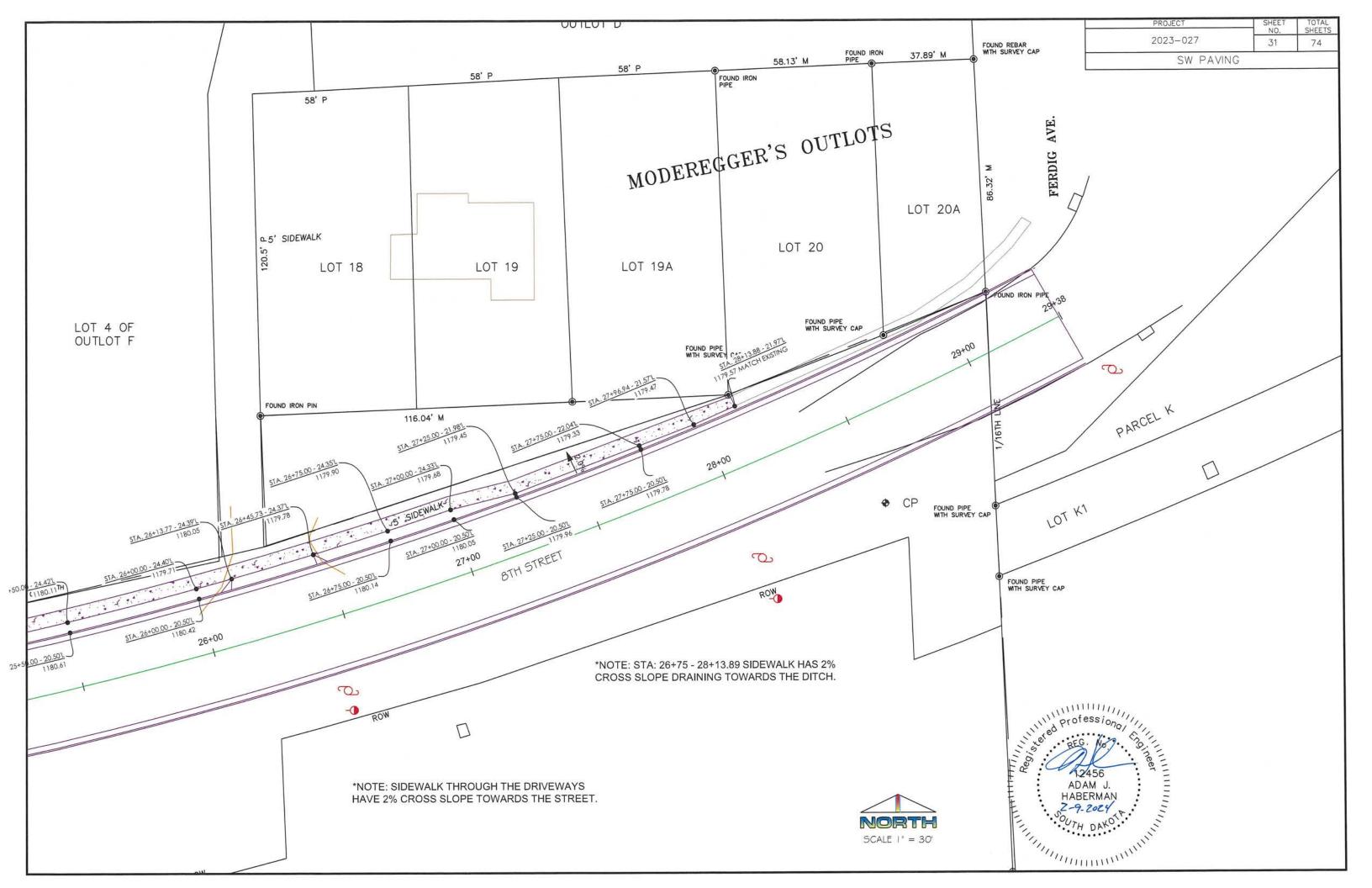


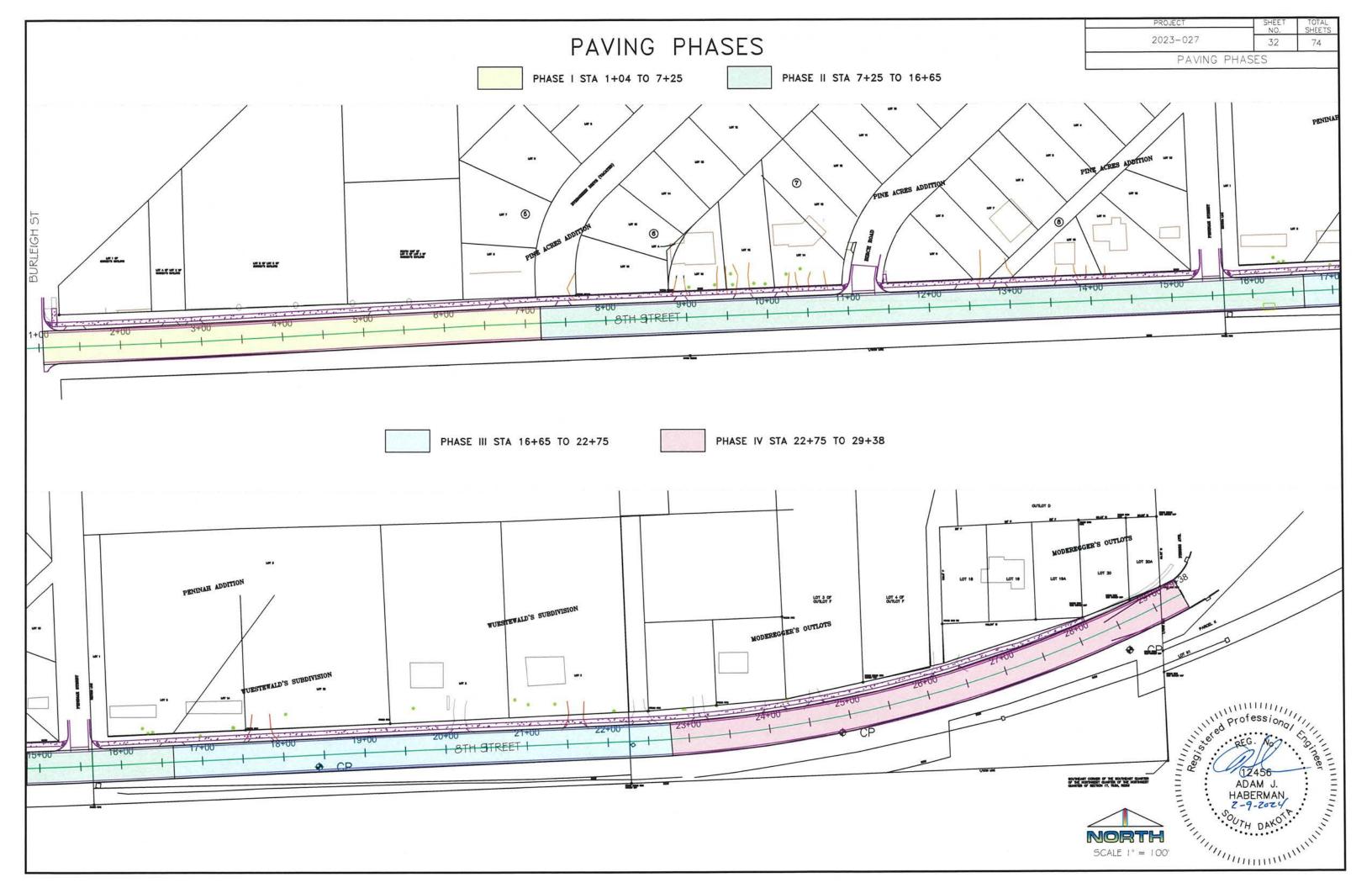


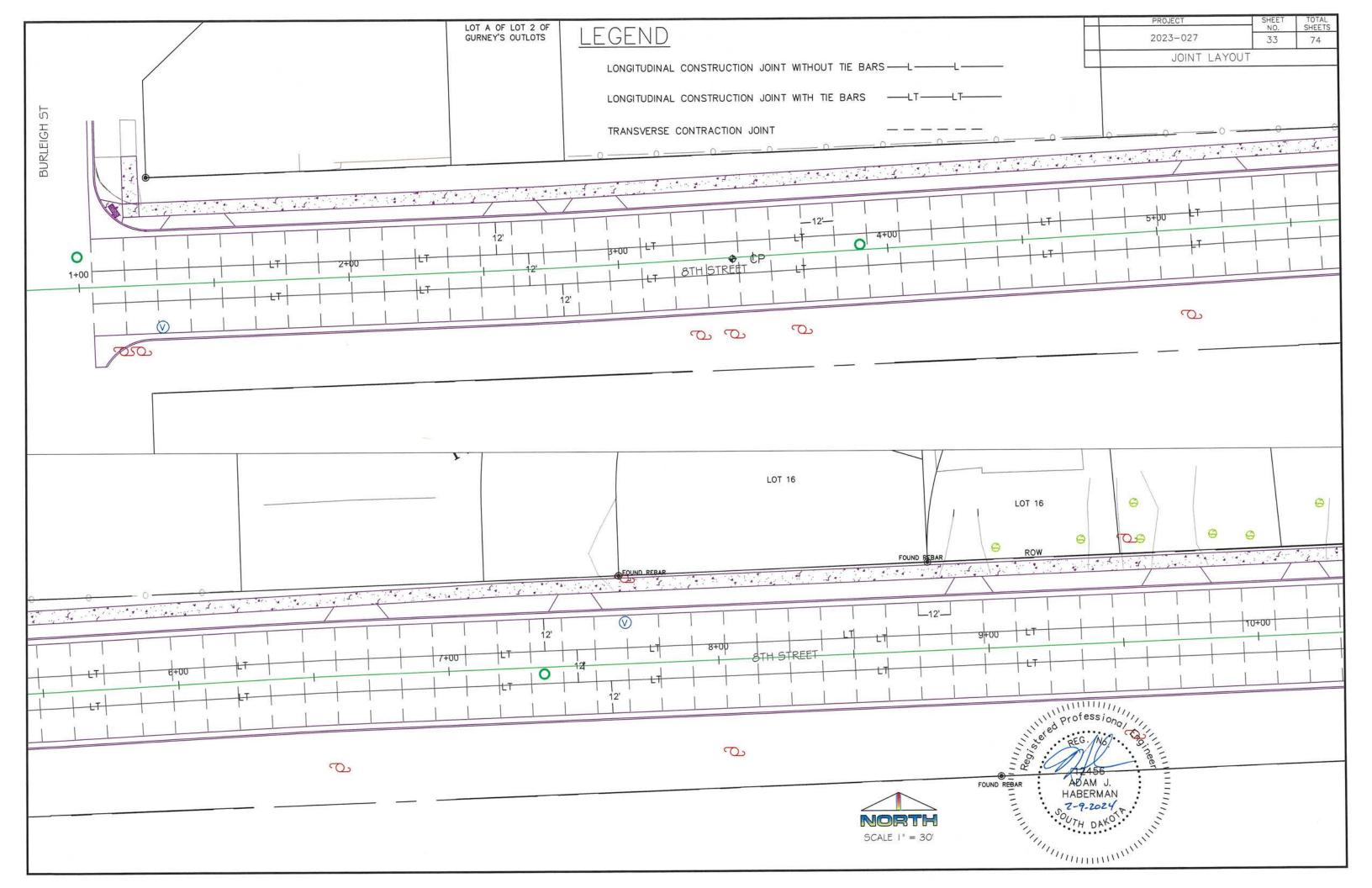


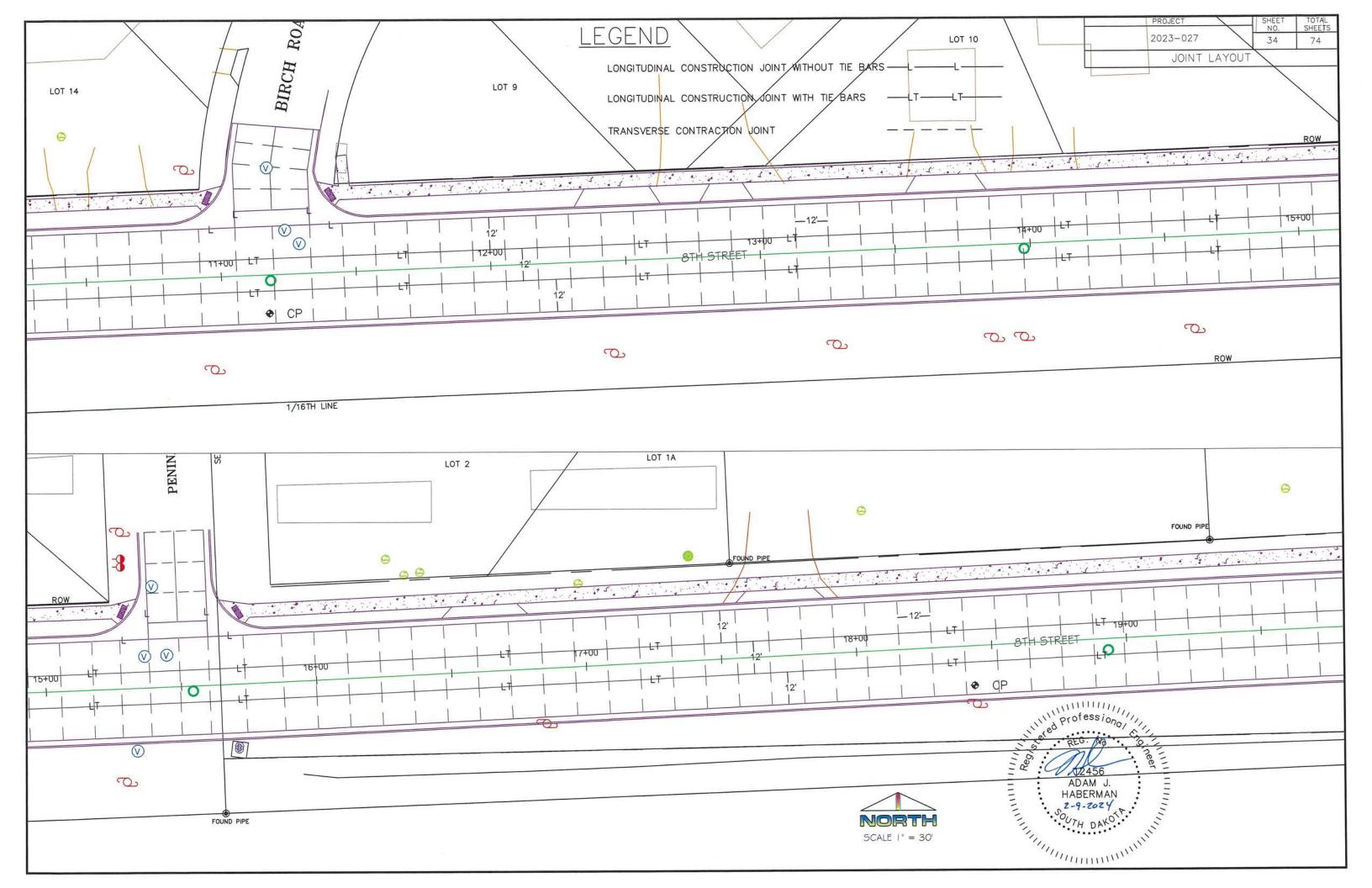


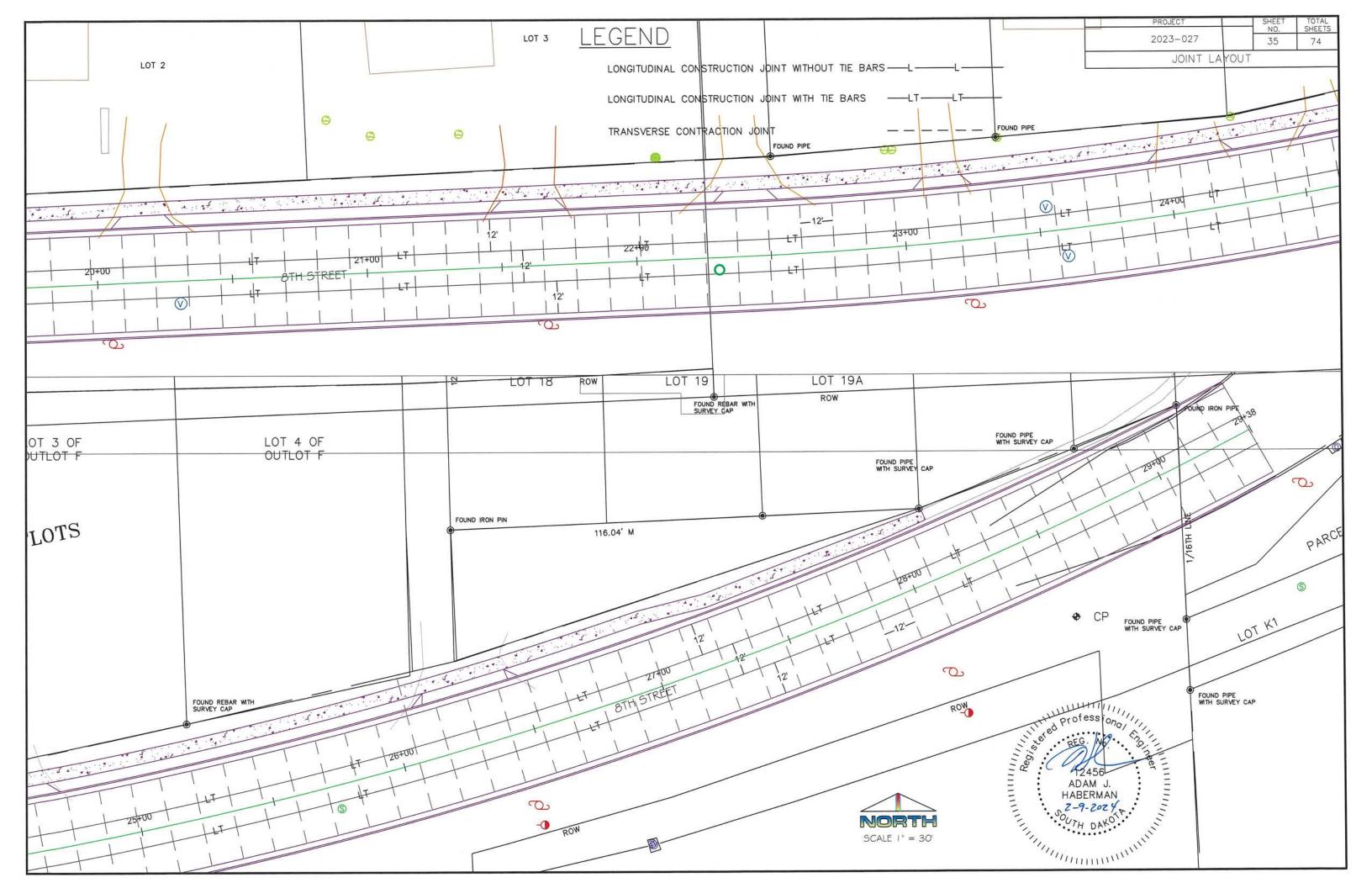


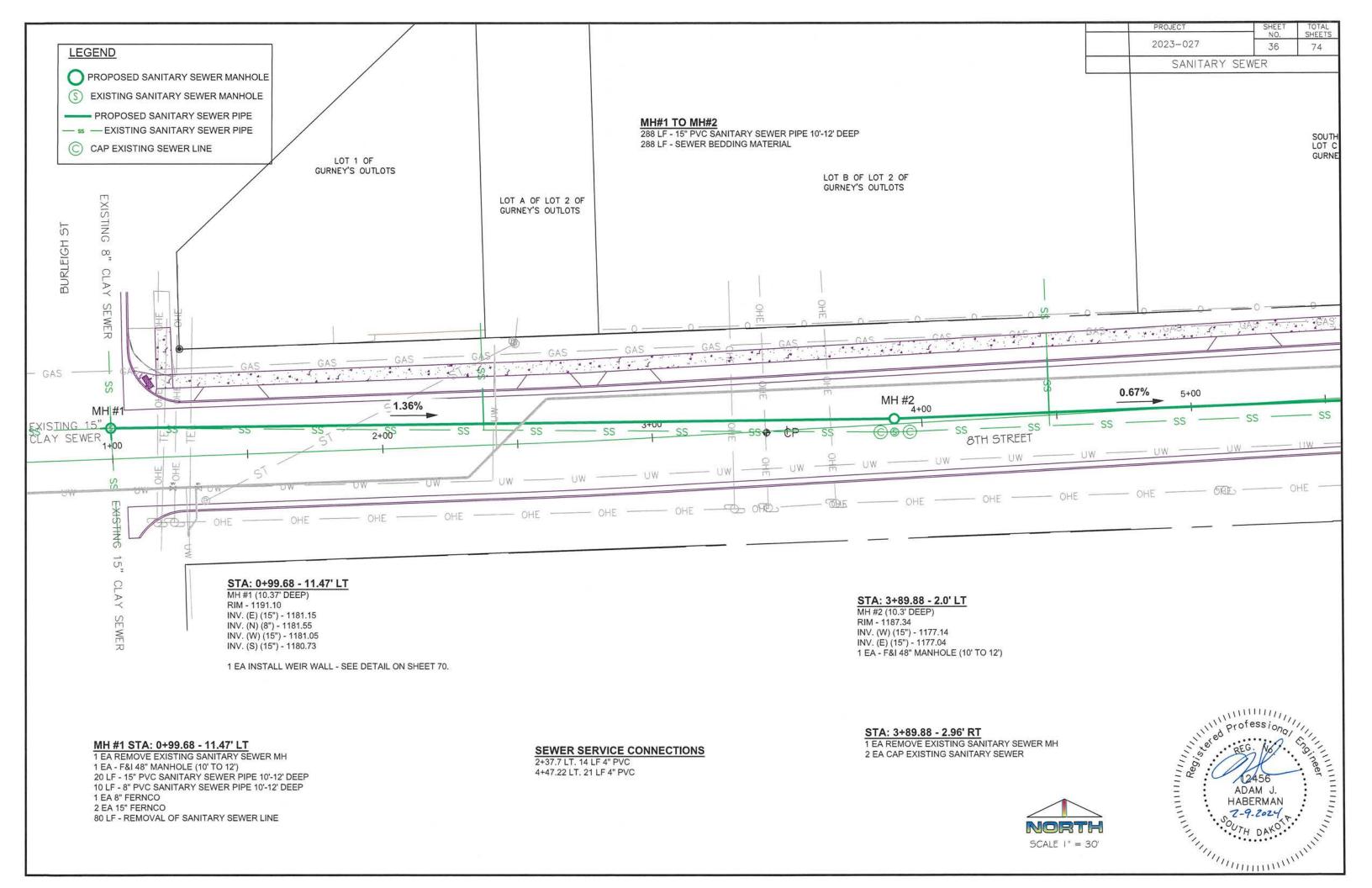


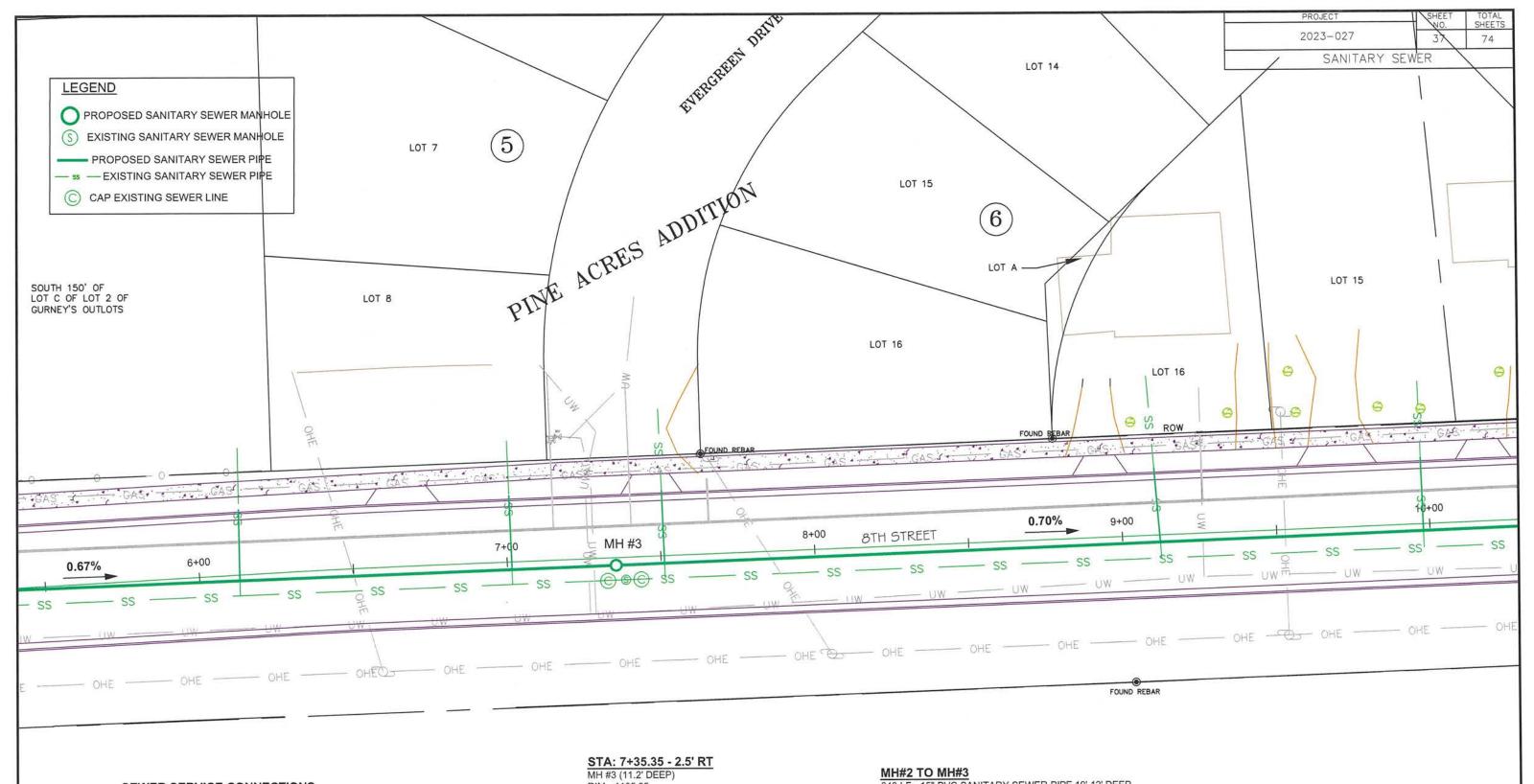












SEWER SERVICE CONNECTIONS

6+12.86 LT. 24 LF 4" PVC 7+01.53 LT. 24 LF 4" PVC 7+51.17 LT. 24 LF 4" PVC 9+12.53 LT. 24 LF 4" PVC 9+97.86 LT. 24 LF 4" PVC MH #3 (11.2' DEEP) RIM - 1185.95 INV. (W) (15") - 1174.75 INV. (E) (15") - 1174.65 1 EA - F&I 48" MANHOLE (10' TO 12')

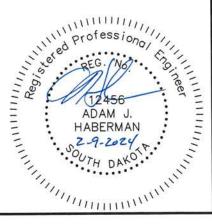
STA: 7+38.36 - 7.27' RT

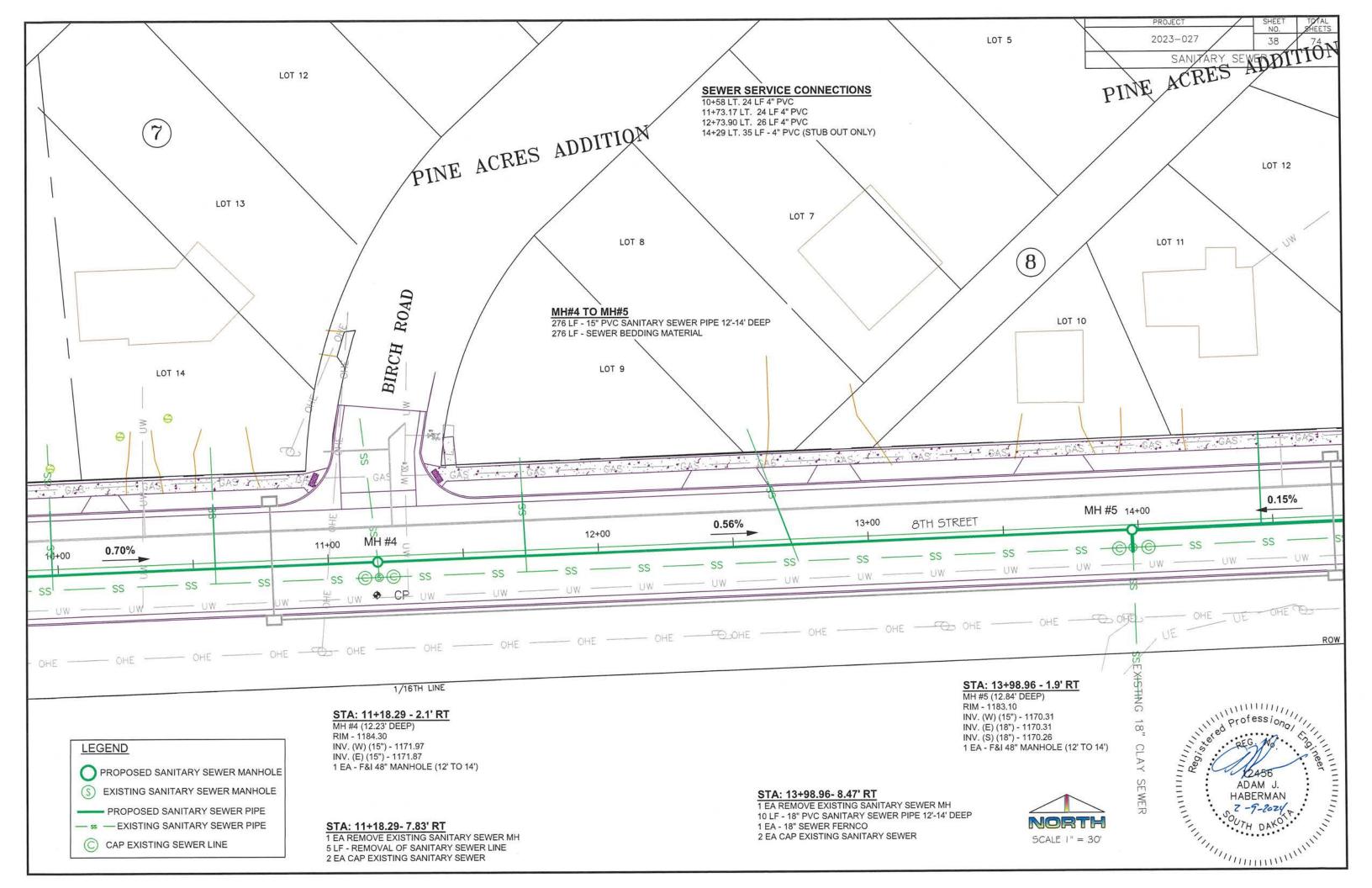
1 EA REMOVE EXISTING SANITARY SEWER MH 2 EA CAP EXISTING SANITARY SEWER 343 LF - 15" PVC SANITARY SEWER PIPE 10'-12' DEEP 343 LF - SEWER BEDDING MATERIAL

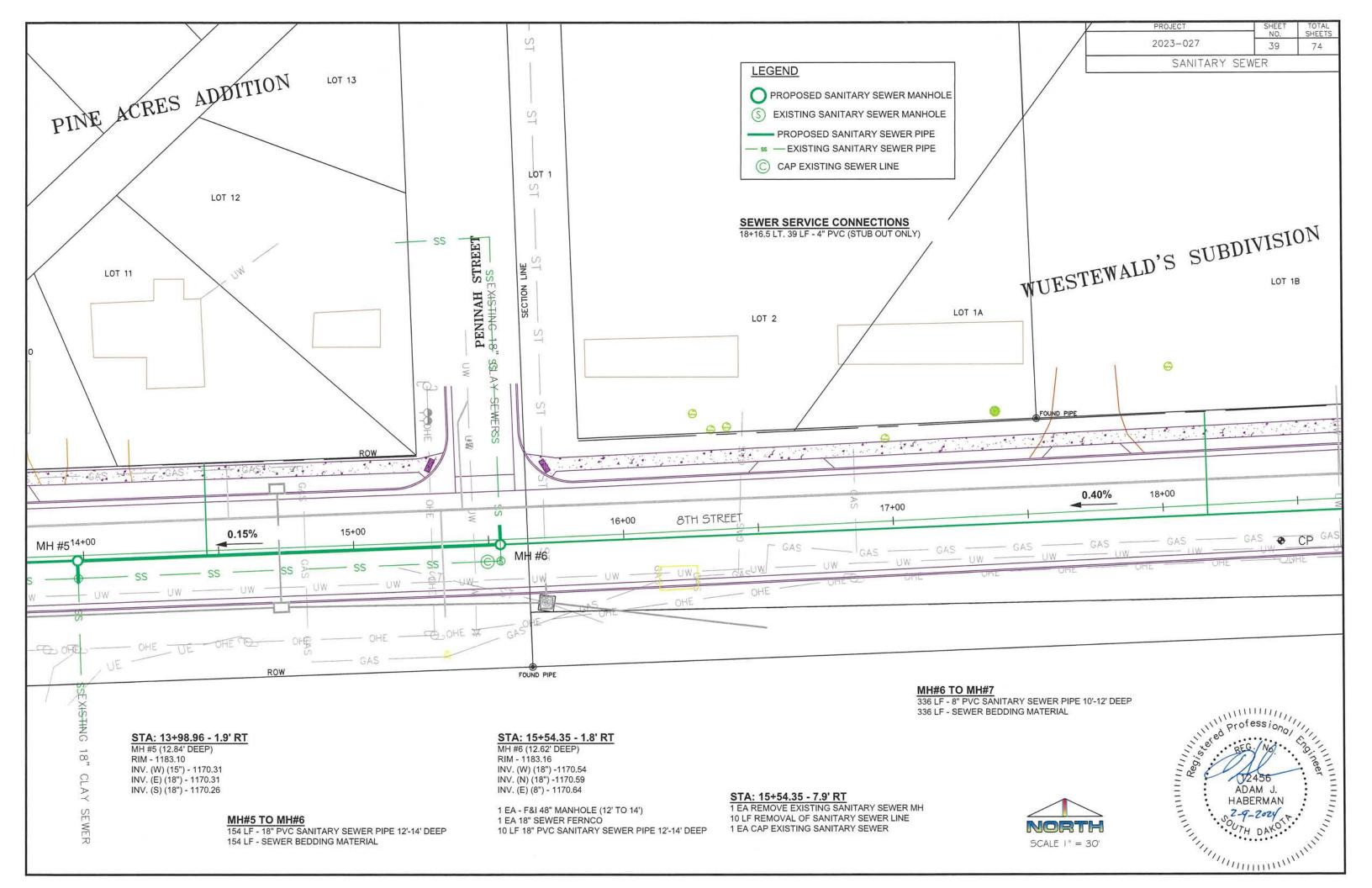
MH#3 TO MH#4

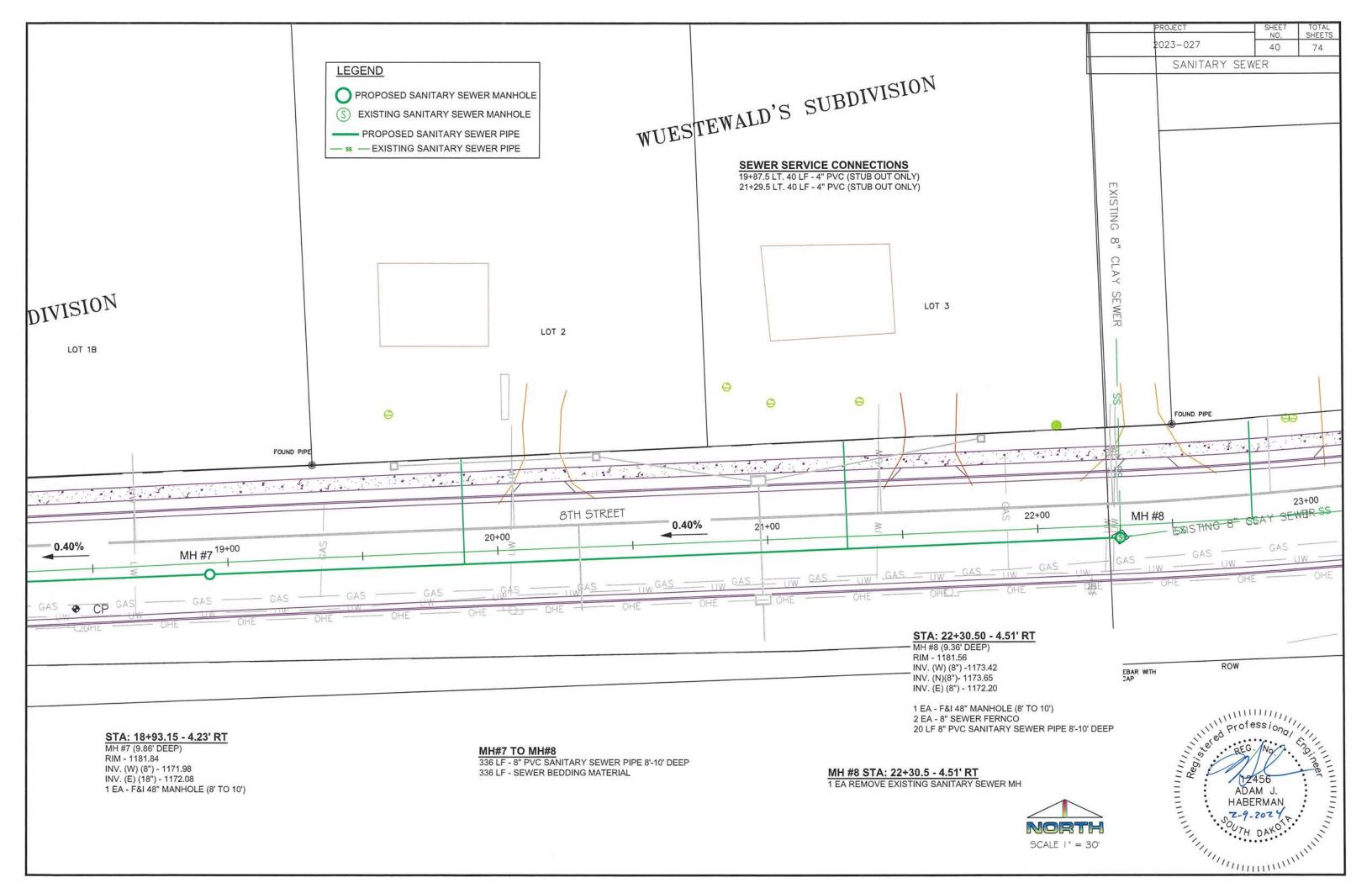
380 LF - 15" PVC SANITARY SEWER PIPE 10'-12' DEEP 380 LF - SEWER BEDDING MATERIAL

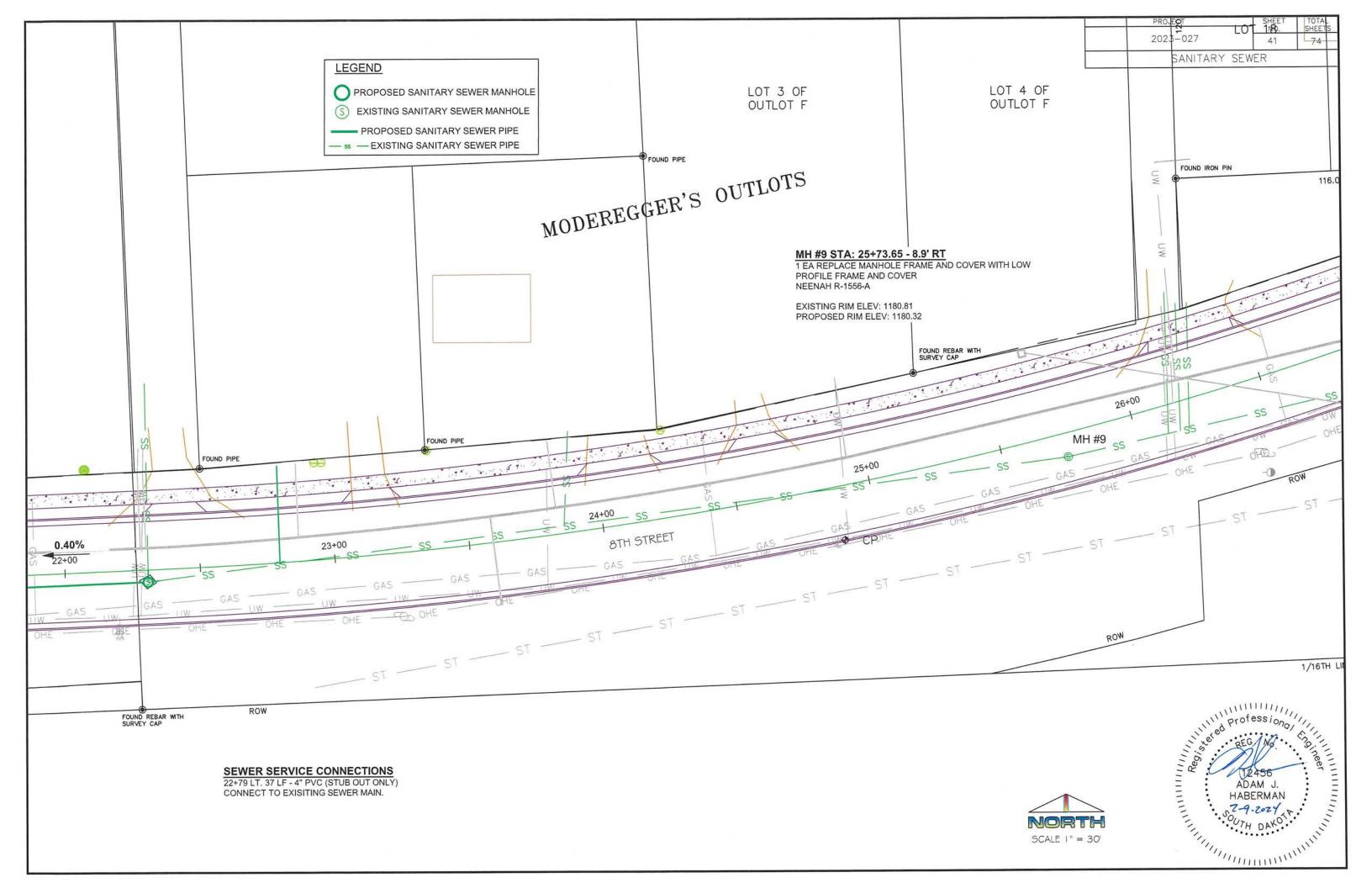


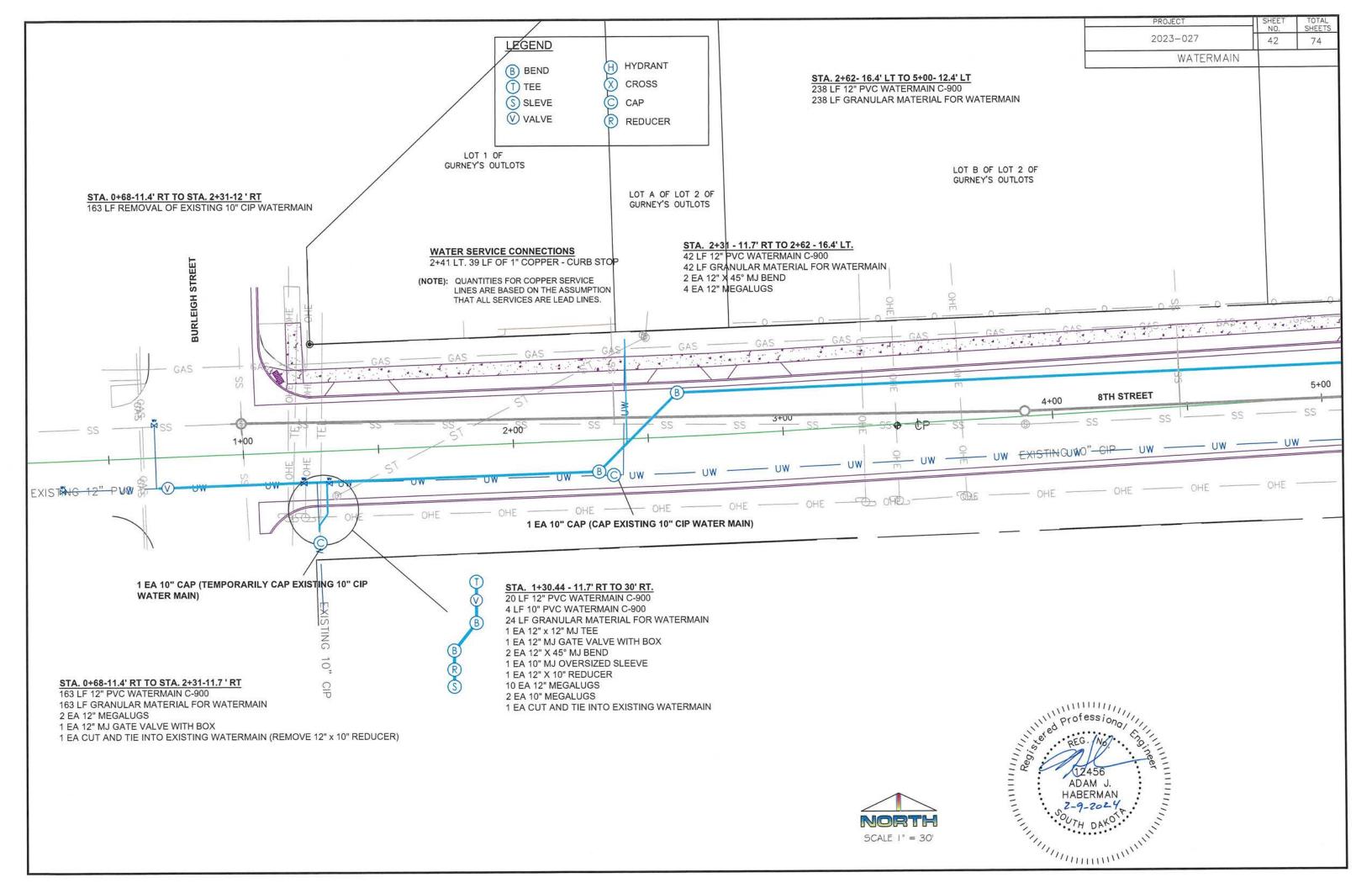


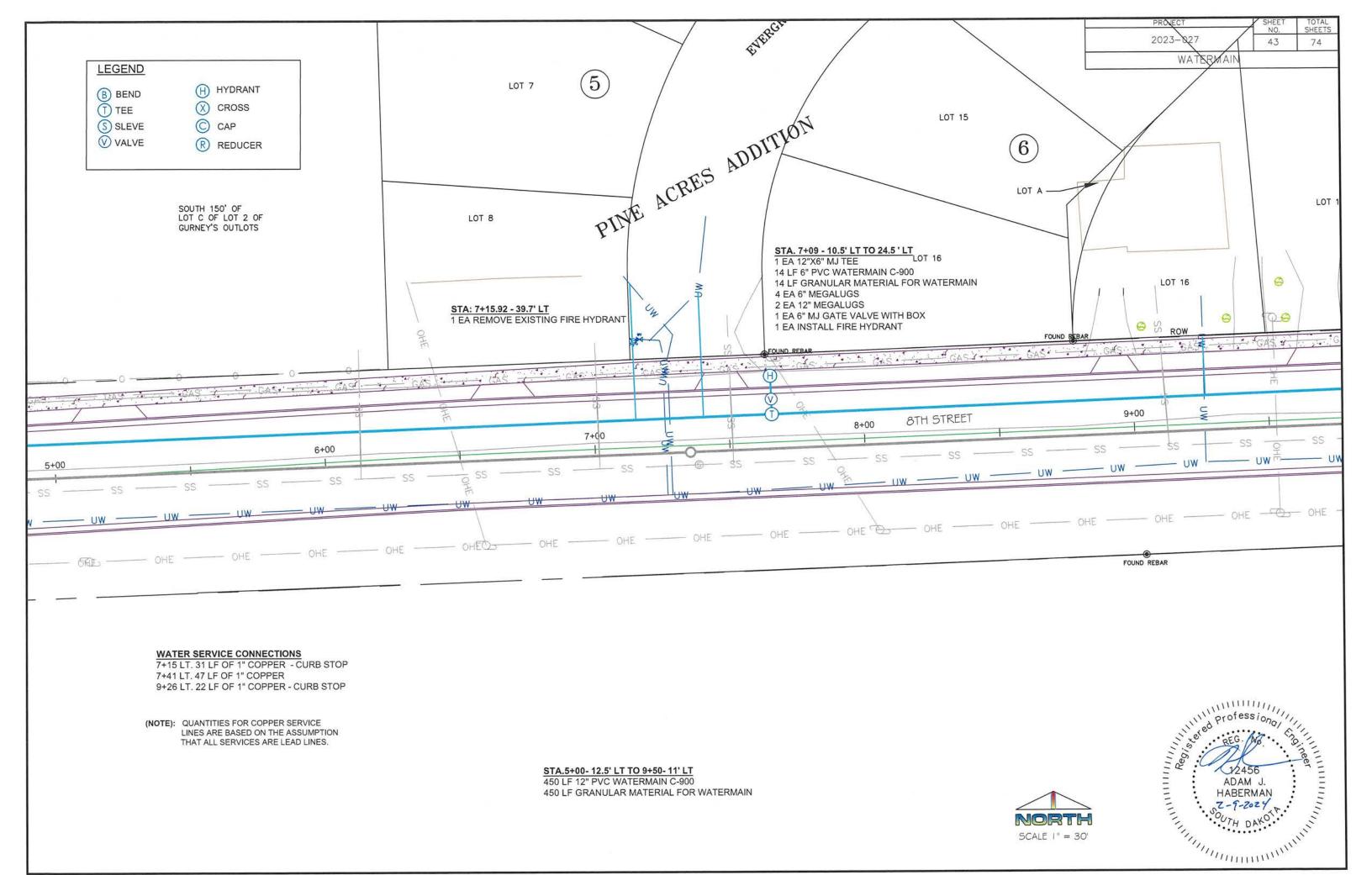


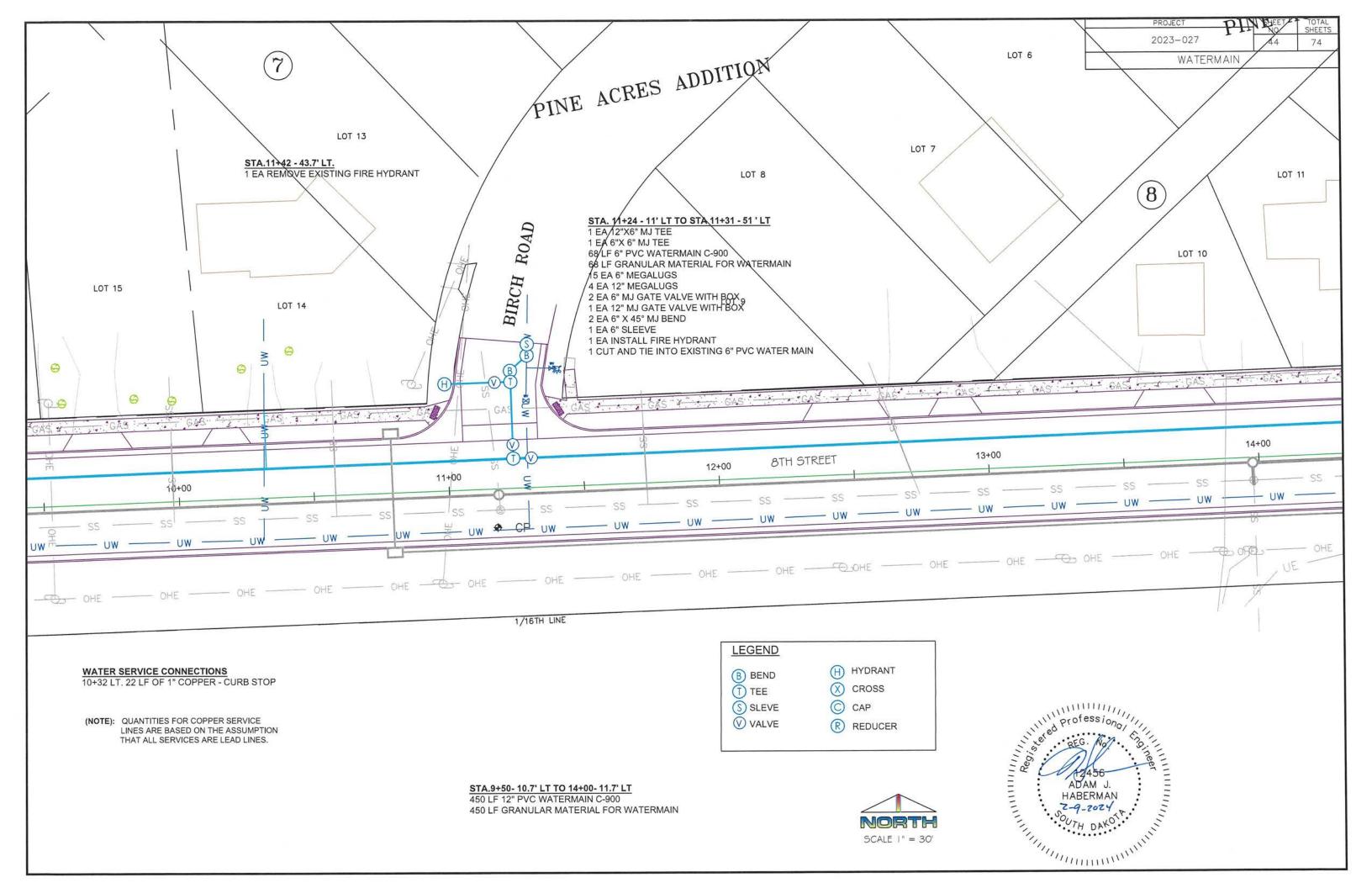


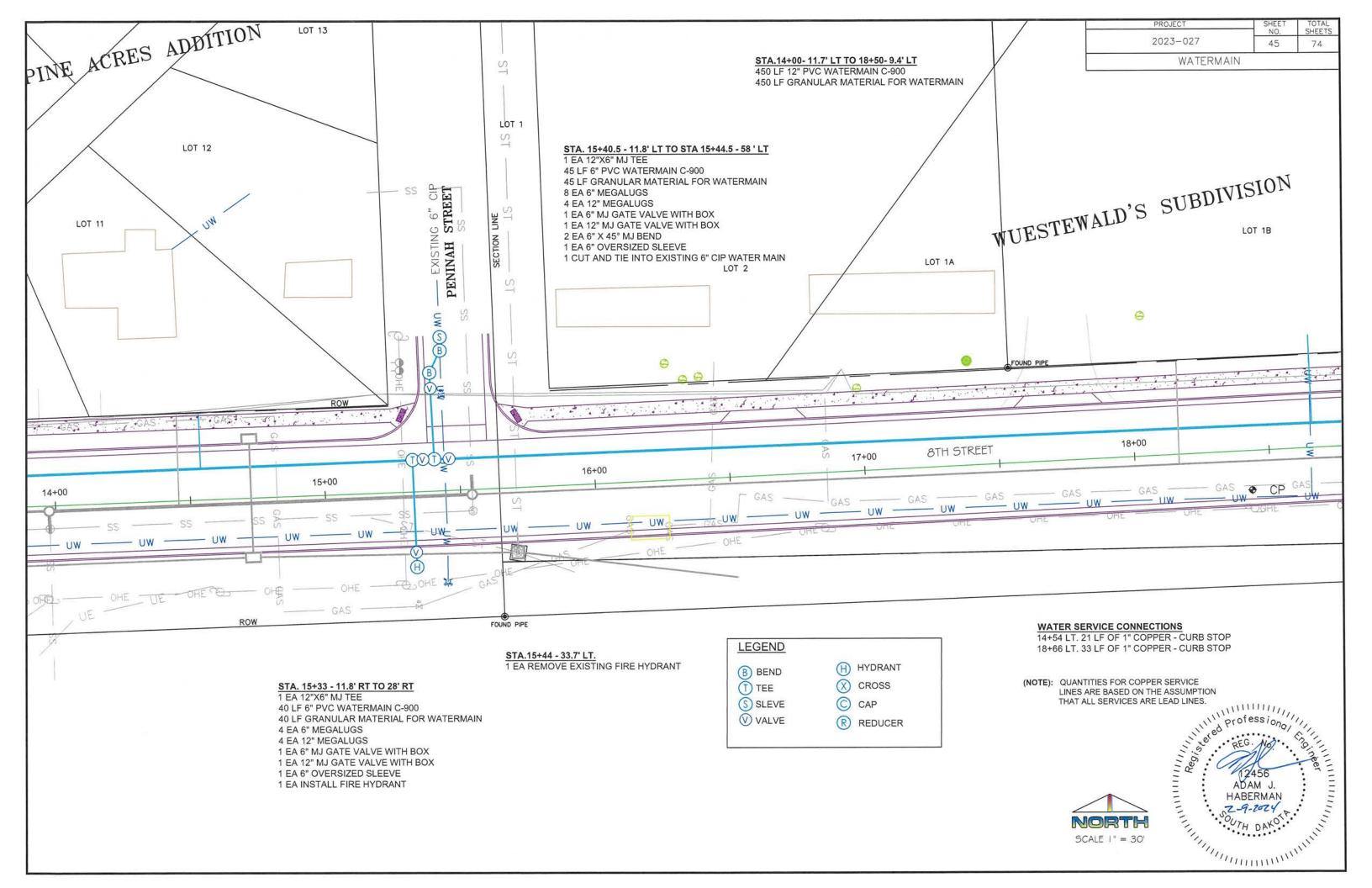


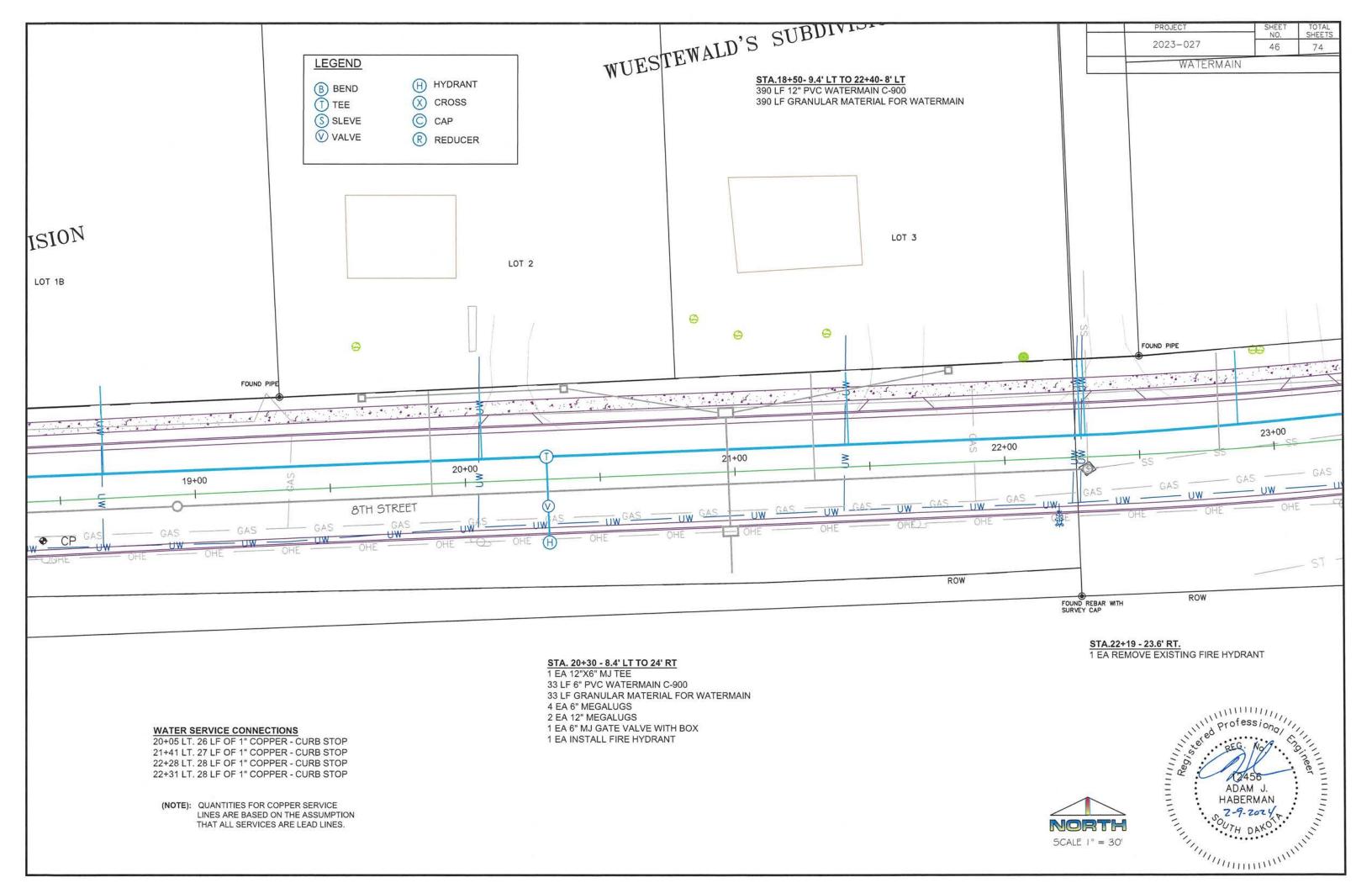


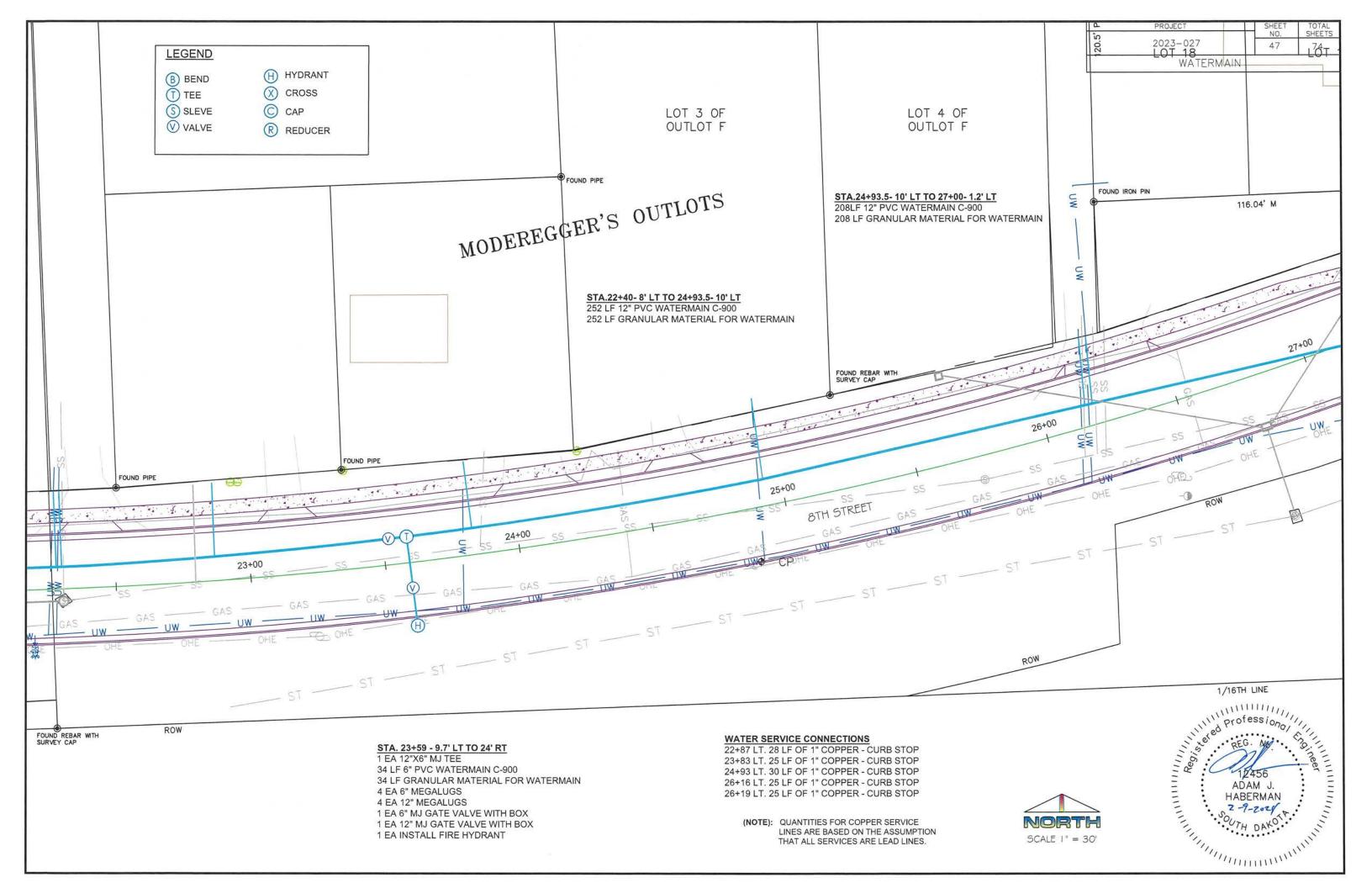


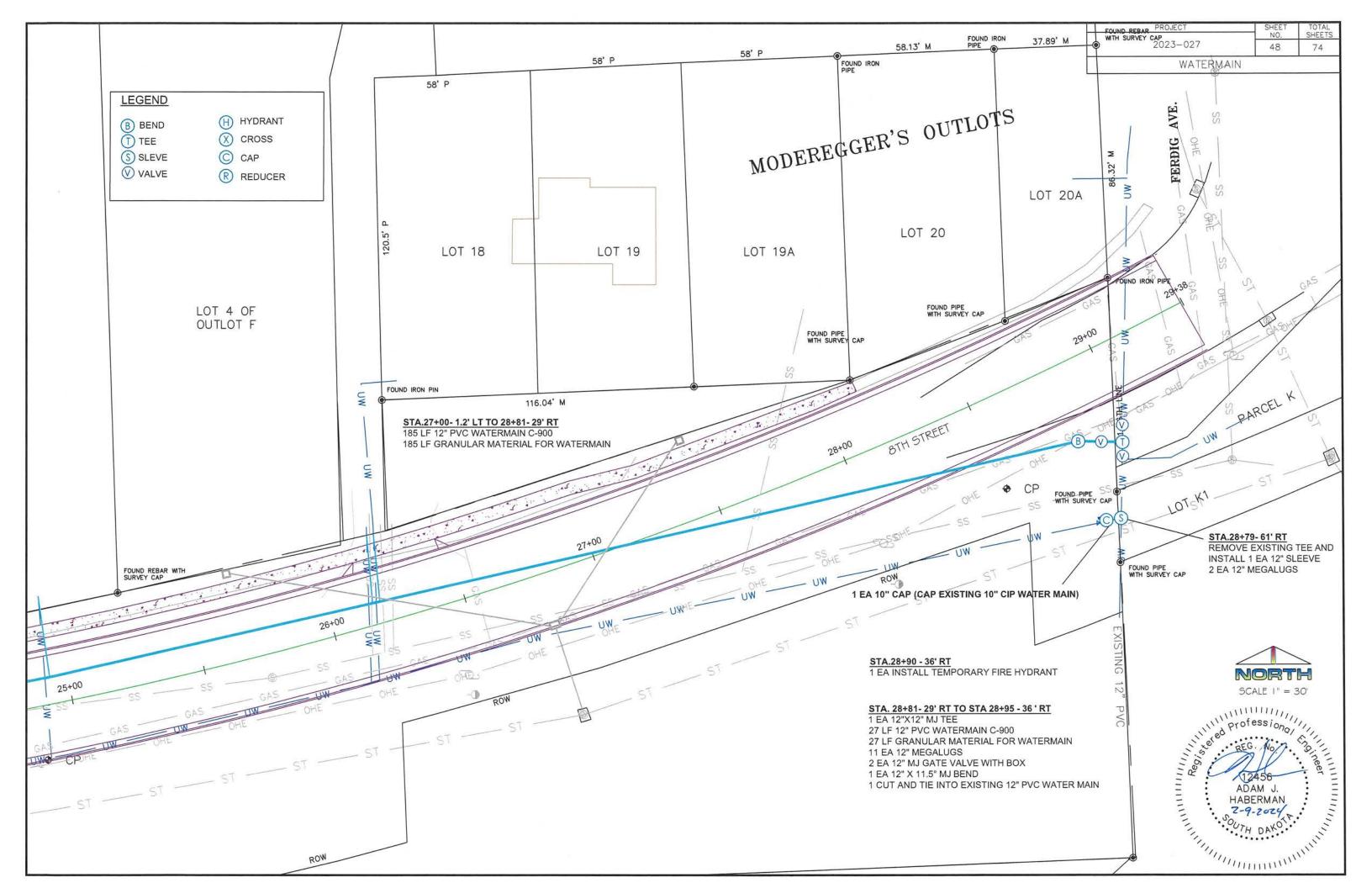


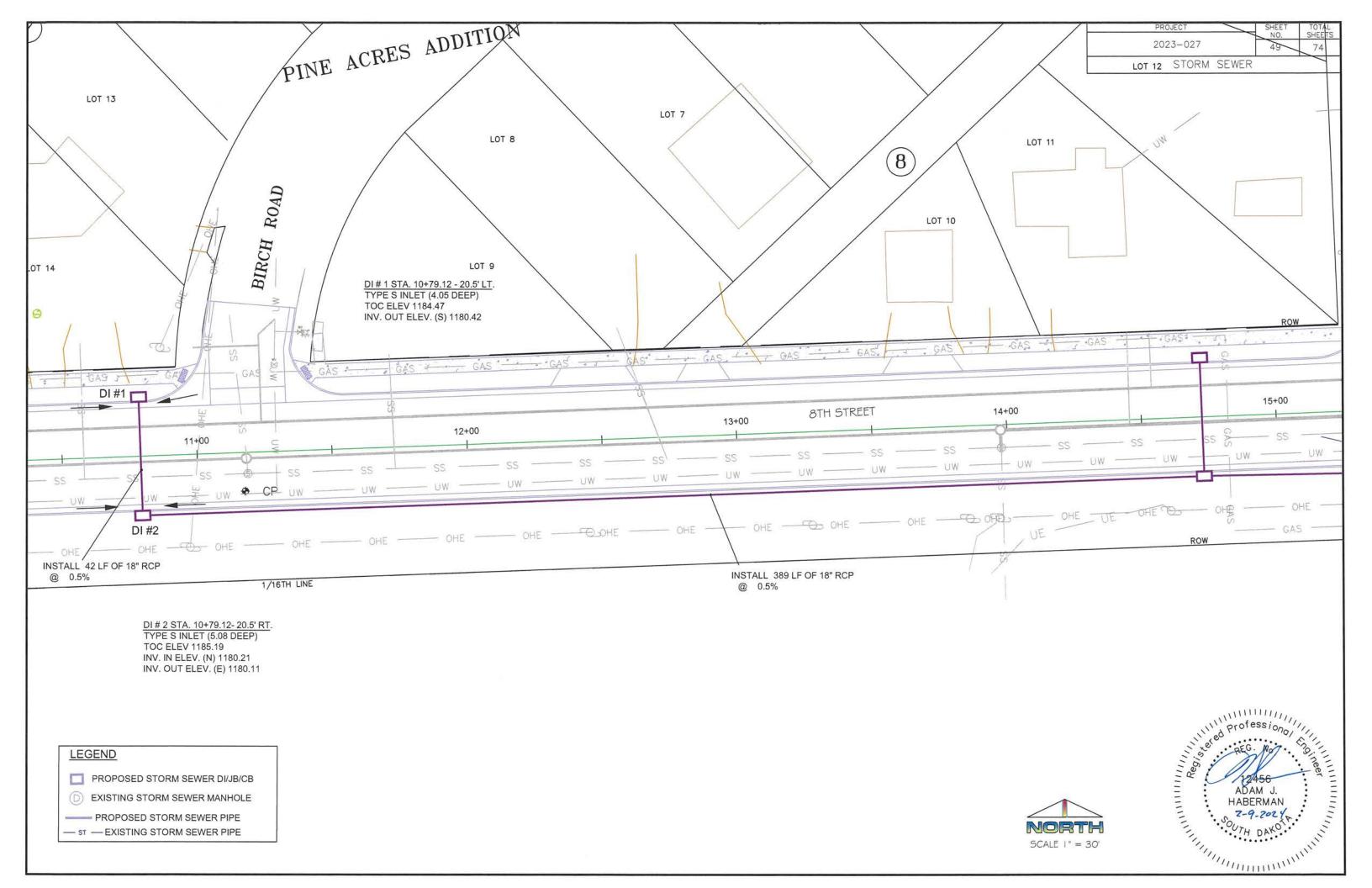


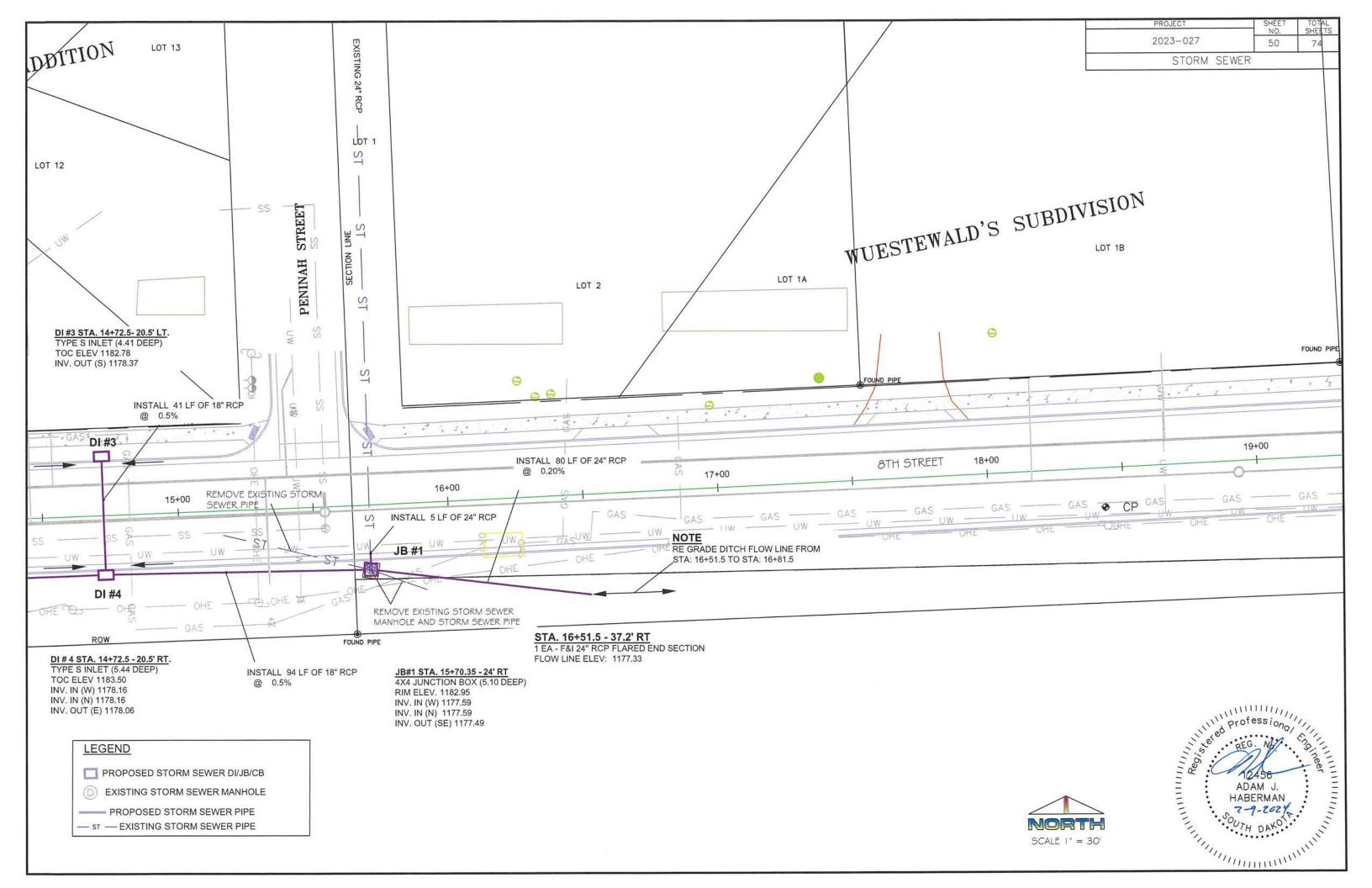


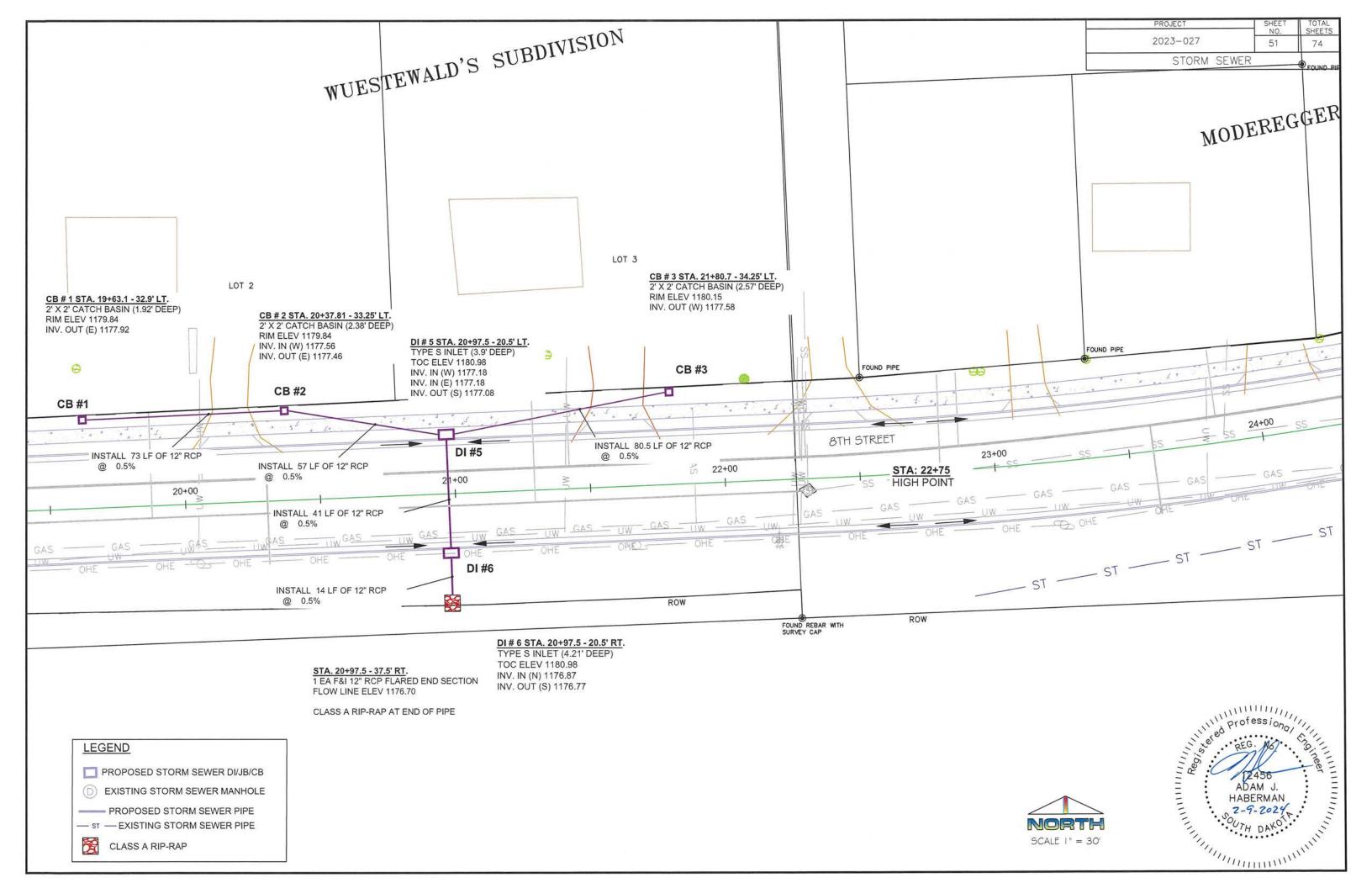


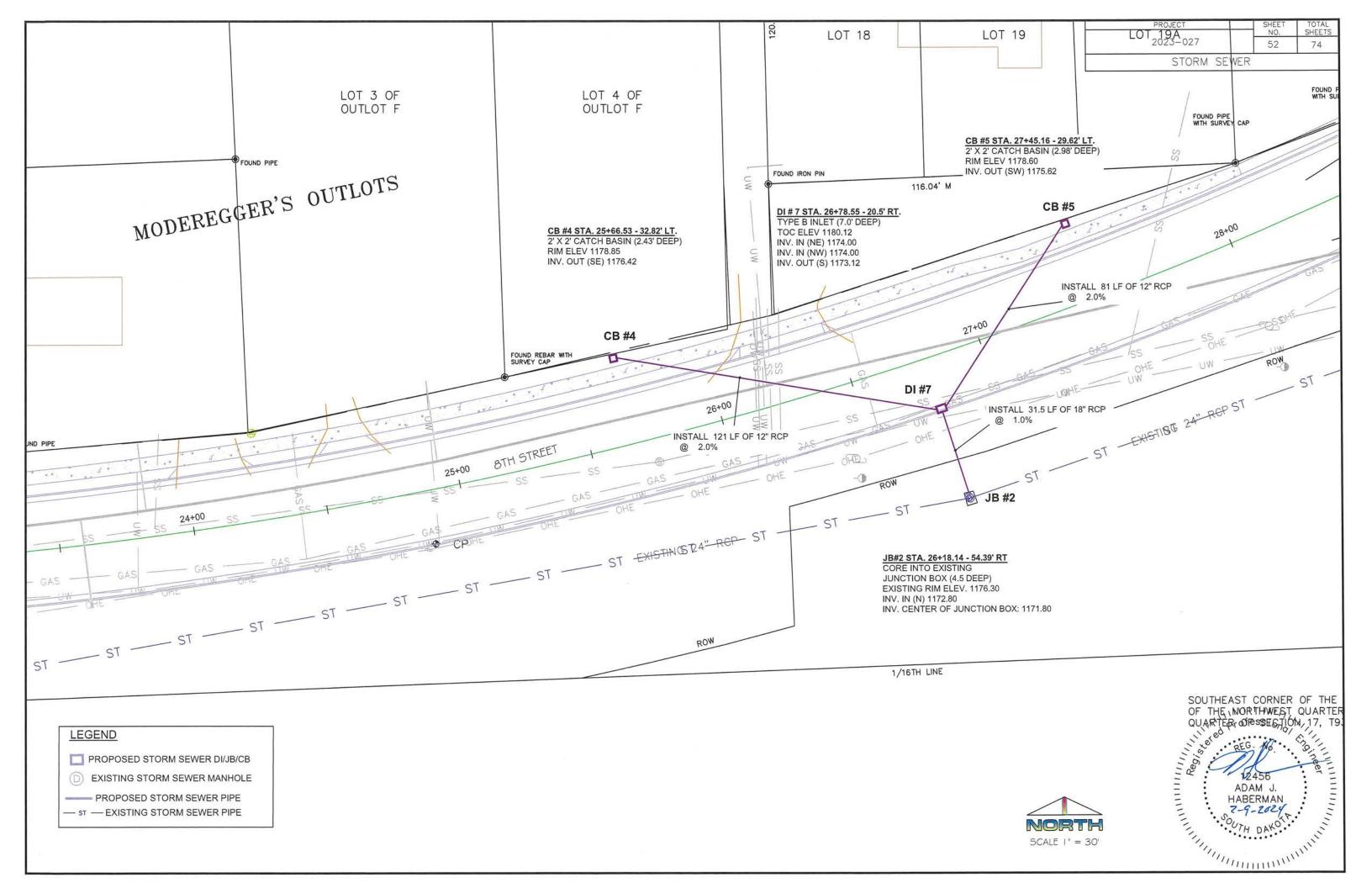








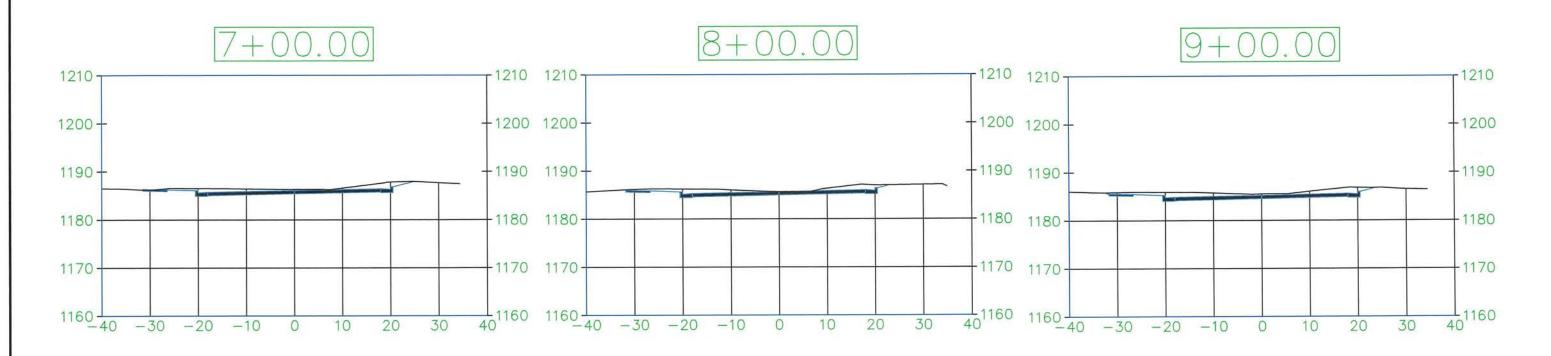


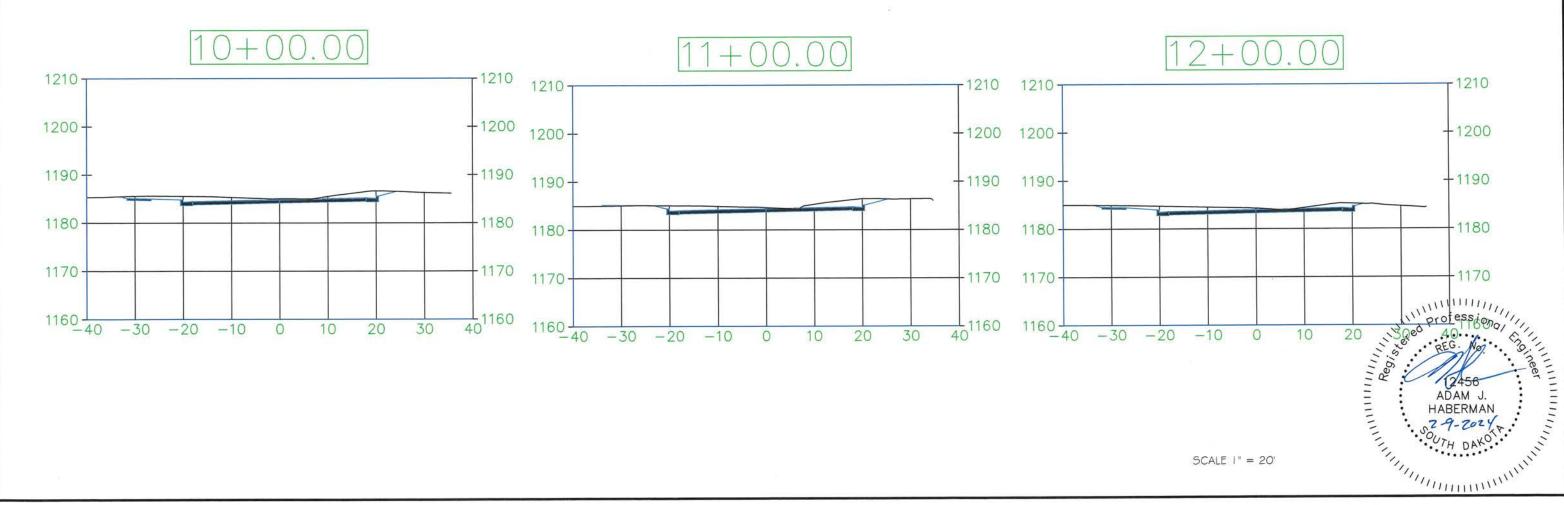




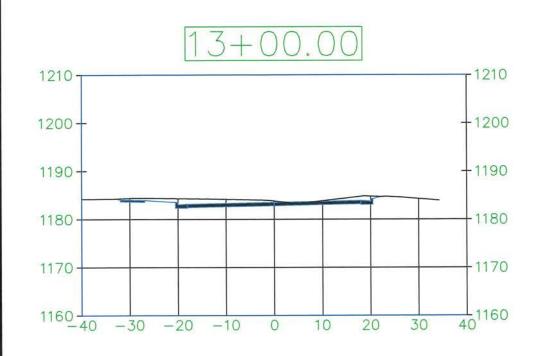
PROJECT	SHEET	TOTAL
2023-027	54	74
CROSS SEC	TIONS	

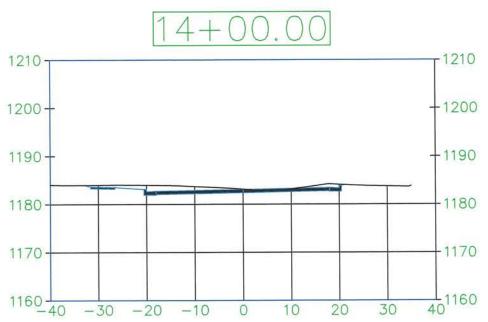
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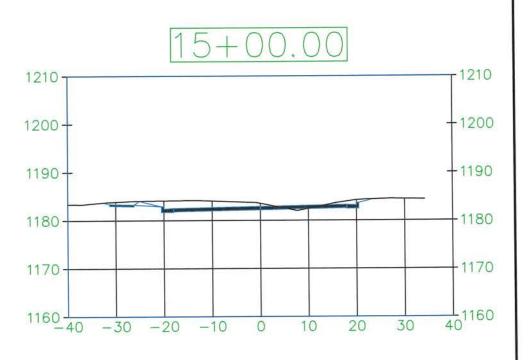


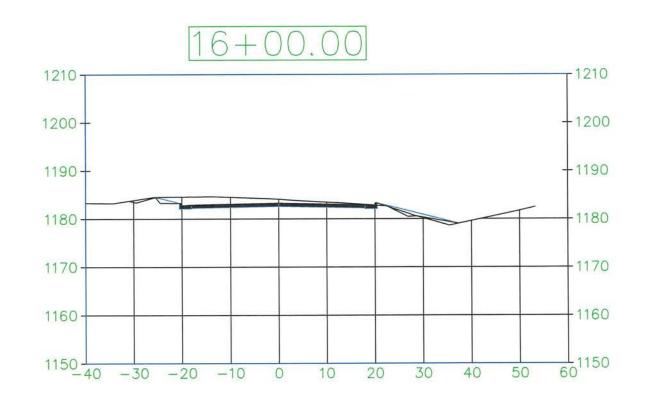


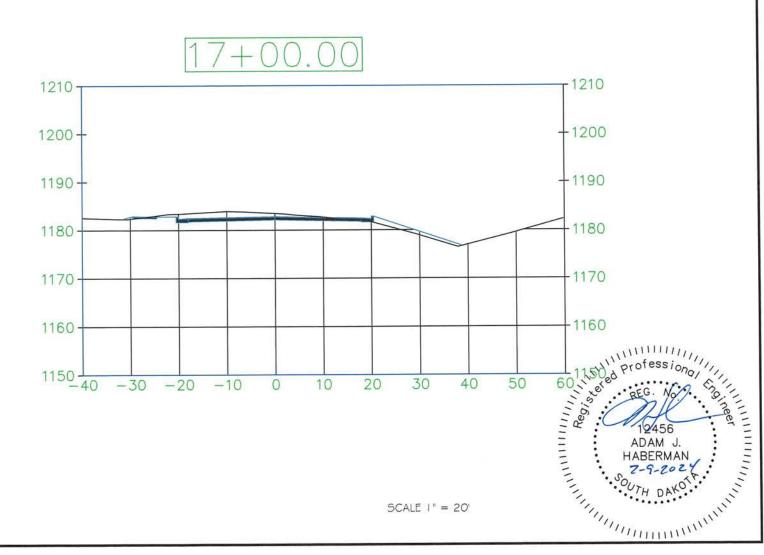
PROJECT	SHEET NO.	SHEETS
2023-027	55	74
CROSS SEC	TIONS	



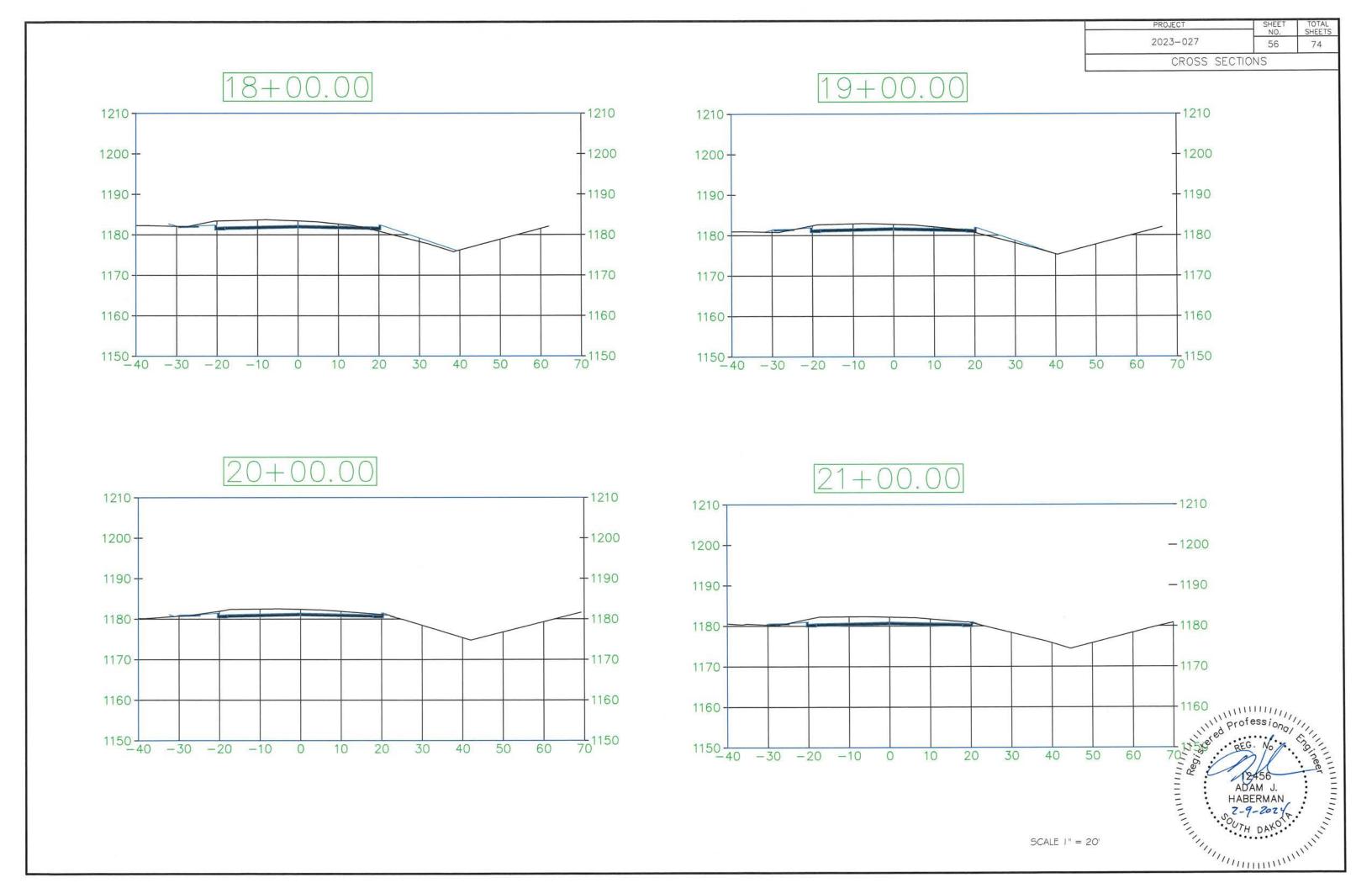




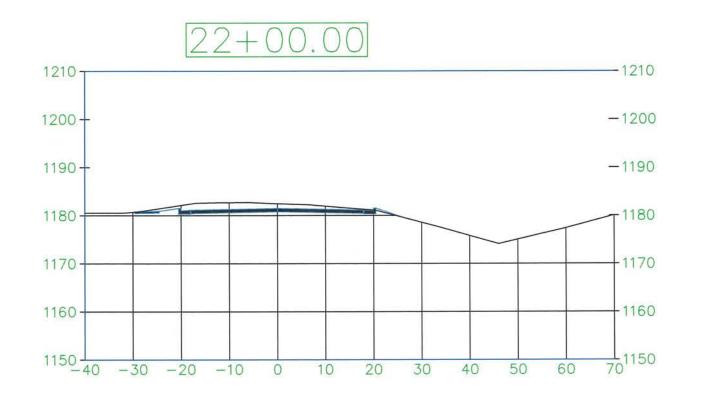


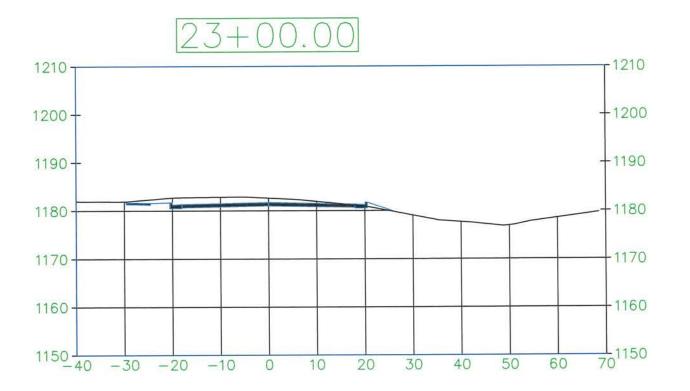


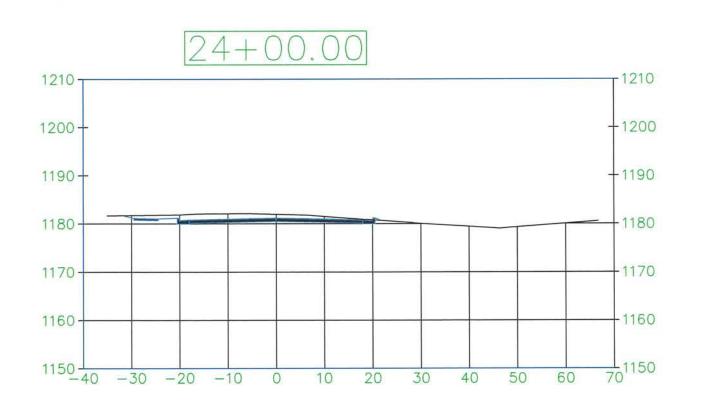
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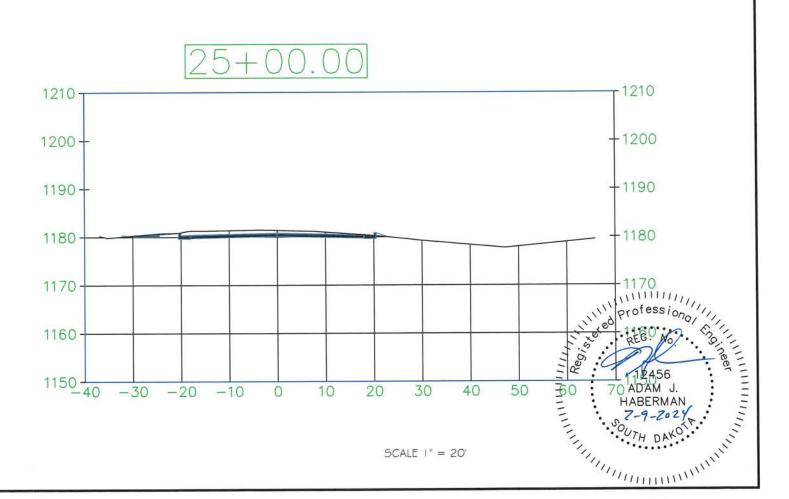


PROJECT	SHEET NO.	TOTAL
2023-027	57	74
CROSS SEC	TIONS	

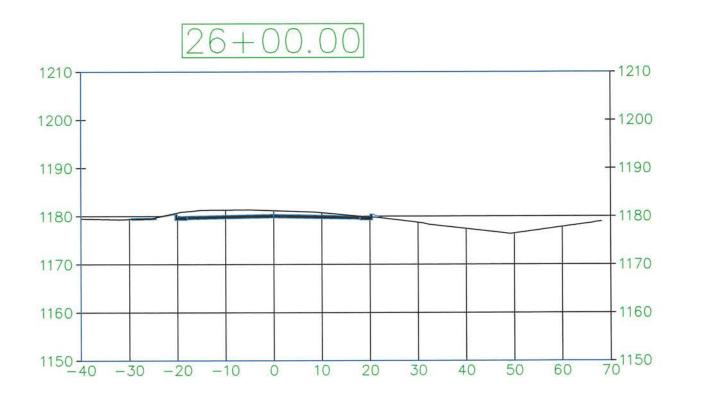


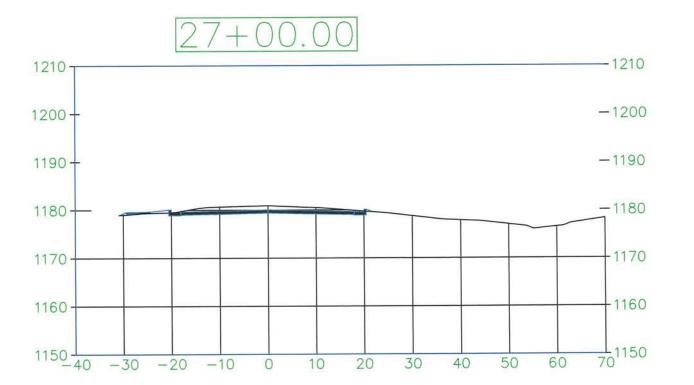


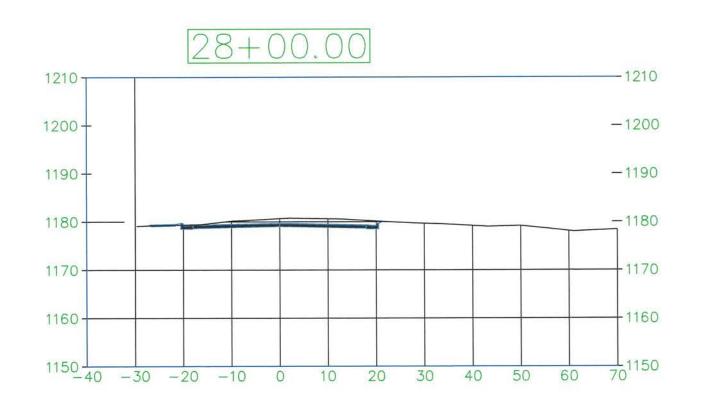


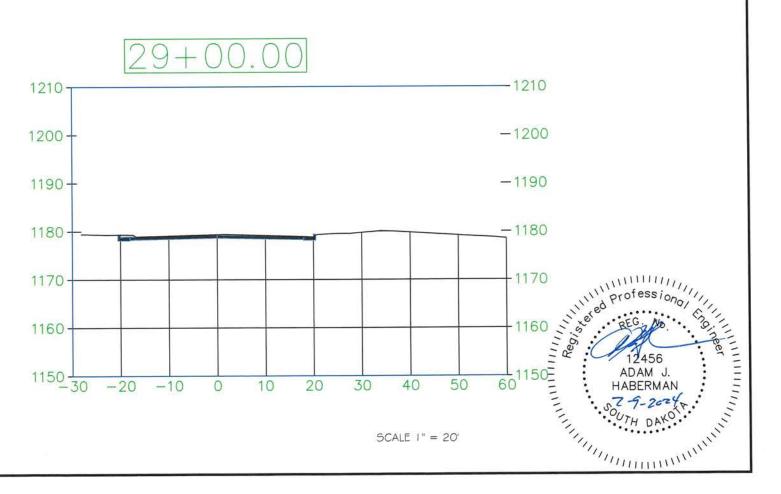


PROJECT	SHEET	TOTAL
2023-027	58	74
CROSS SEC	TIONS	









PROJECT	SHEET	TOTAL
2023-027	59	74
DETAILS		

WINITED

ADAM J.

CH DAKOTA.

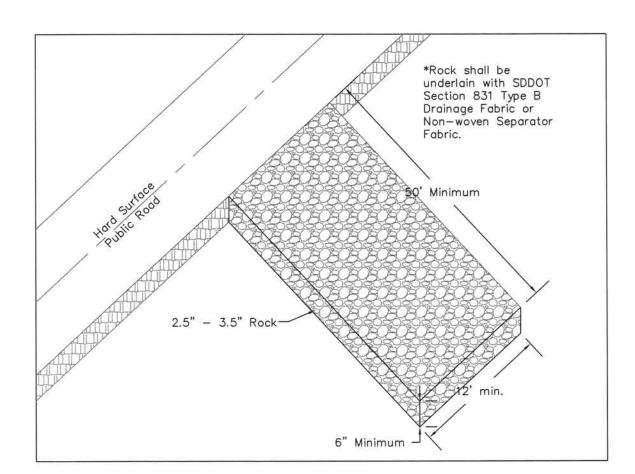


Vehicle Tracking Control Definition:

A stone stabilized pad located at points of vehicular ingress and egress on a construction site.

Purposes:

To reduce the amount of mud transported onto public roads by motor vehicles or



Silt Fence

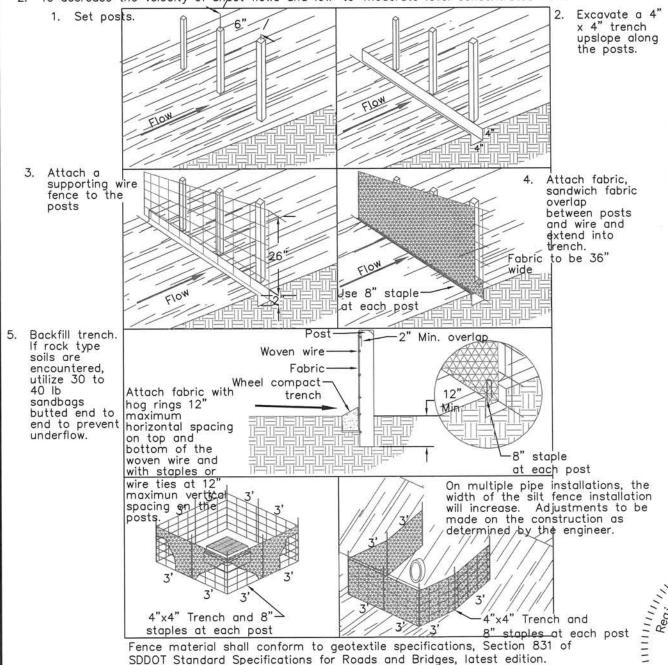
Definition:

A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched. The silt fence is a temporary linear barrier constructed of

synthetic filter fabric and supported by wBadeases: steel posts.

1. To intercept and detain small amounts of sediment from disturbed areas during construction operations in order to reduce sediment in runoff from leaving the site.

2. To decrease the velocity of sheet flows and low—to—moderate level concentrated flows.



PROJECT	SHEET	TOTAL
2023-027	60	74
DETAILS		

Inlet Protection

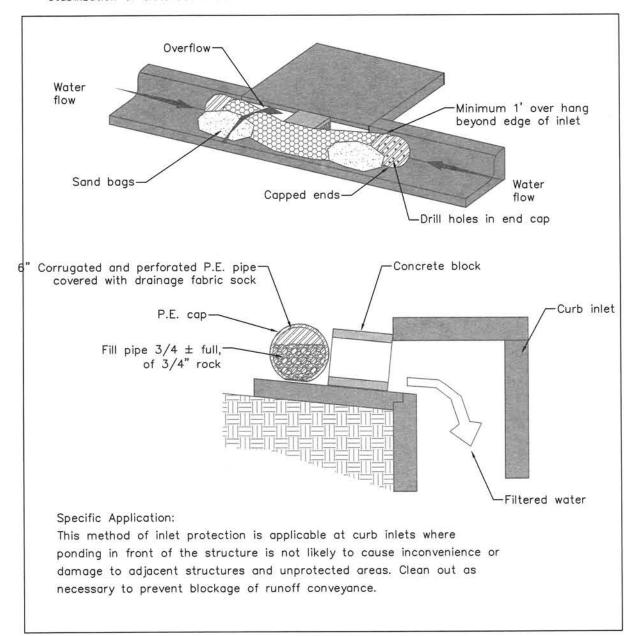


Definition:

A sediment filter or an excavated impounding area around a storm drain drop inlet or curb inlet. To be used at sump conditions.

Purposes:

To reduce sediment from entering storm drainage systems prior to permanent stabilization of disturbed areas.



Inlet Protection

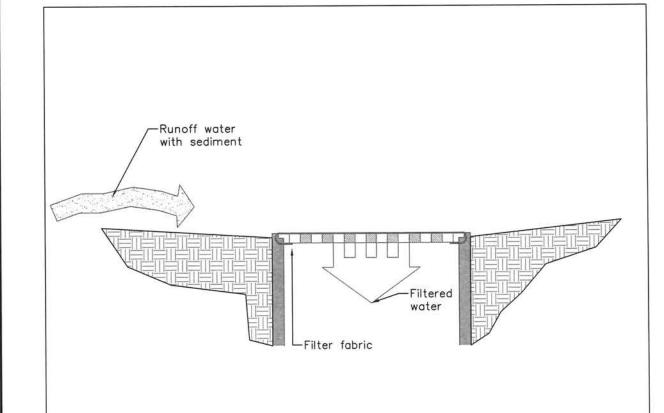


Definition:

A sediment filter or an excavated impounding area around a storm drain drop inlet or curb inlet.

Purposes:

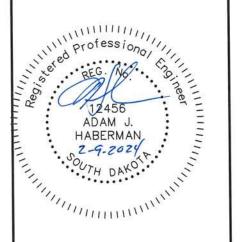
To reduce sediment from entering storm drainage systems prior to permanent stabilization of disturbed areas.

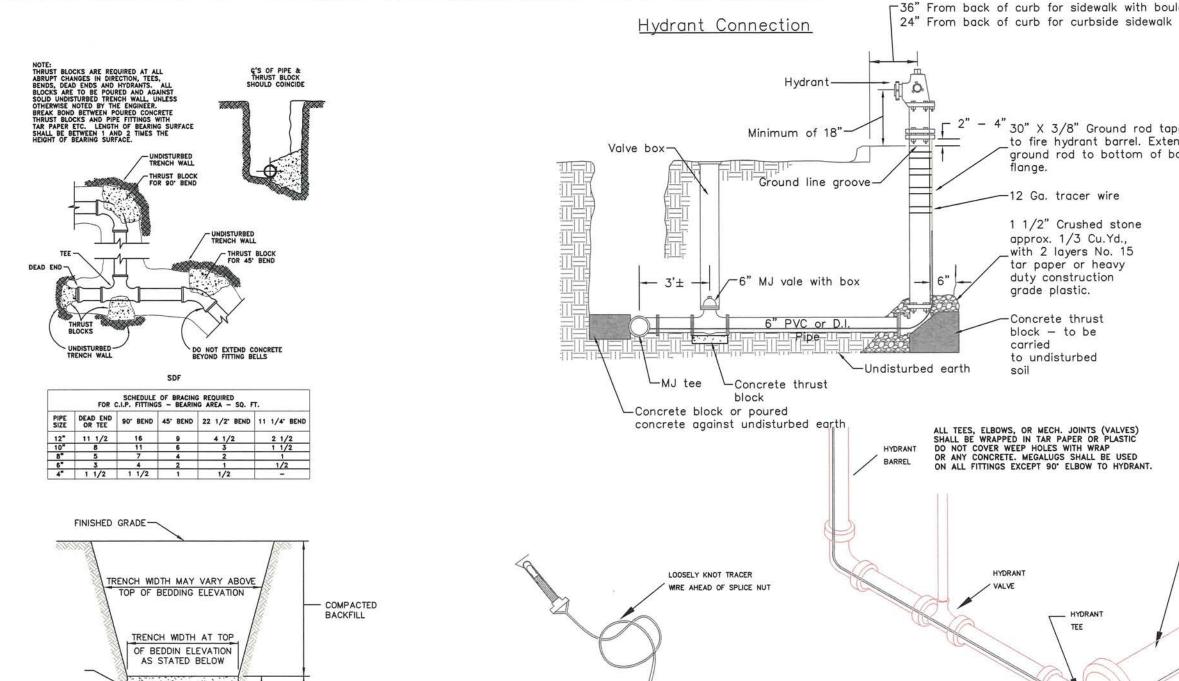


Specific Application:

This method of inlet protection is applicable where heavy concentrated flows are expected, but not where ponding around the structure might cause excessive inconvenience or damage to adjacent structures and unprotected areas. Note: Alternate design could utilize gravel—filled bags.

Drainage and filtration fabric shall conform to Section 831 of SDDOT Standard Specifications for Roads and Bridges, latest edition.



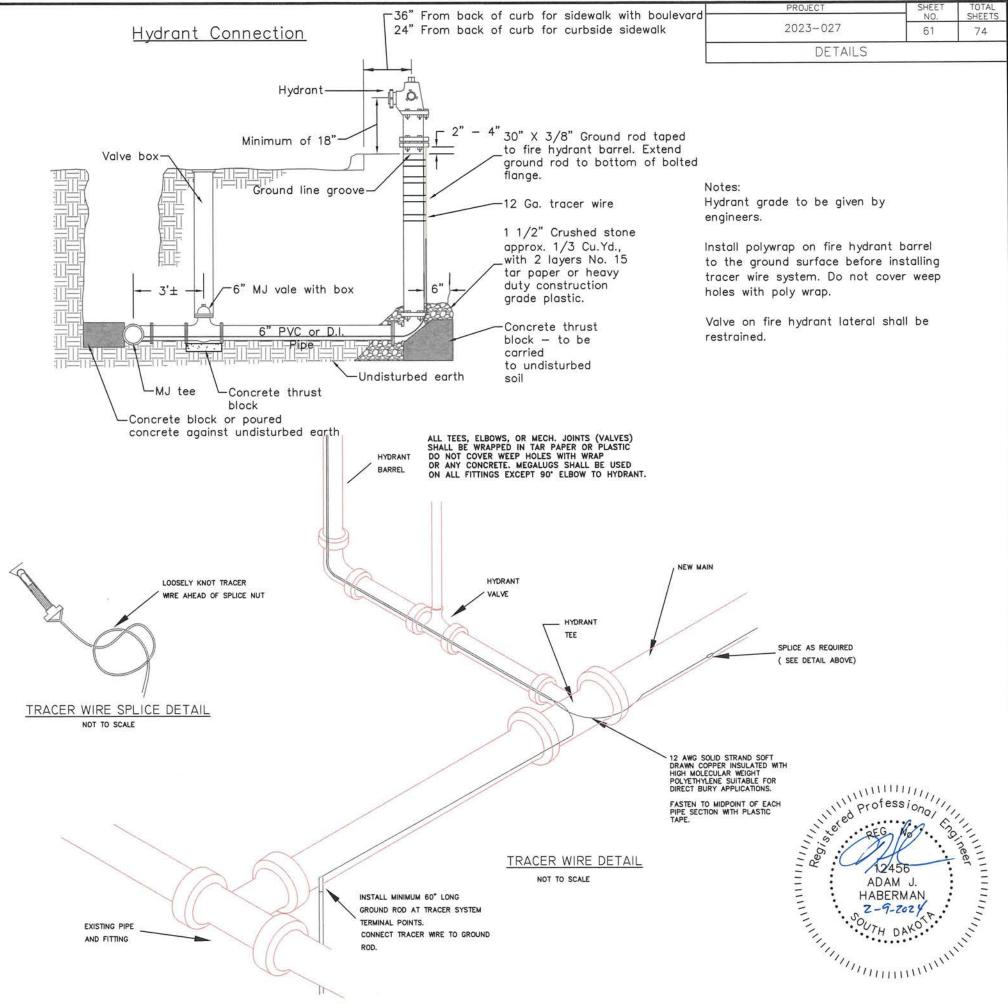


COMPACTED PIPE SHAPE GRANULAR-BEDDING MATERIAL SPECIAL FOUNDATION MATERIAL IF DIRECTED BY THE ENGINEER EXCAVATE FOR BELLS-

WHERE TRENCH WALLS BELOW THE TOP OF THE BEDDING MATERIAL ARE VERTICAL AND FREE-STANDING, MINIMUM TRENCH WIDTHS ARE AS FOLLOWS:

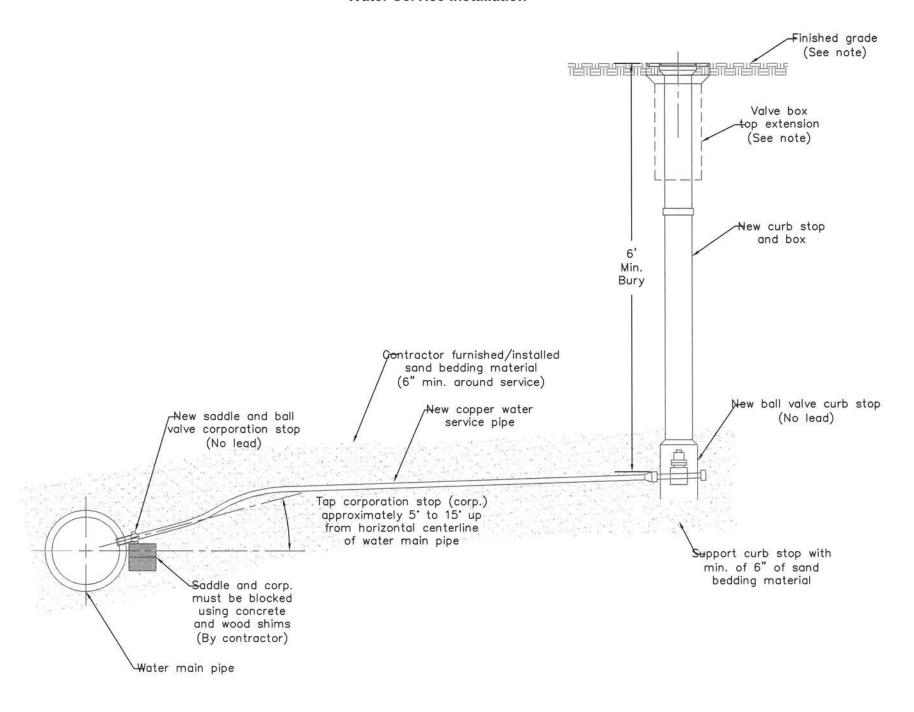
PIPE SIZE	MINIMUM TRENCH WIDTH
8"	24"
10"	26"
12"	28"
15"	32"
18"	36"
21"	40"
24"	43"

DETAIL OF BEDDING & BACKFILL



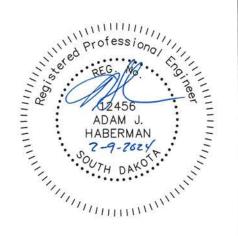
PROJECT	SHEET NO.	TOTAL SHEETS
2023-027	62	74
DETAILS		

Water Service Installation

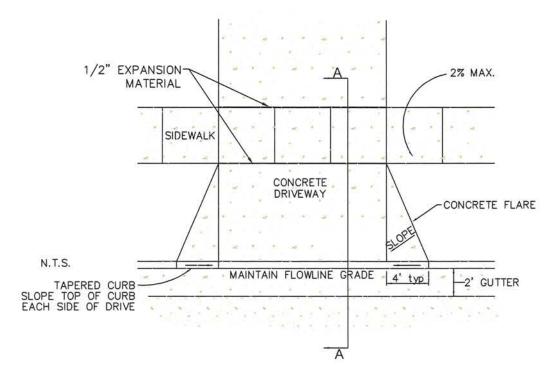


Note:

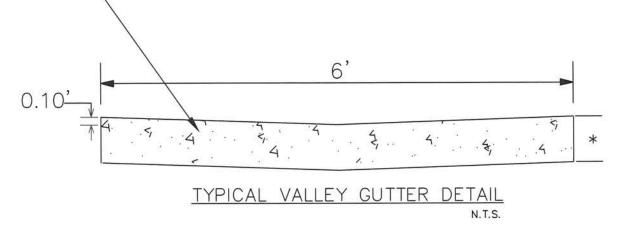
- 1. Curb stop boxes located within concrete or asphalt (driveway, sidewalk, parking and street) shall be fitted with a valve box top extension (8" minimum length) and 5.25" drop lid. The curb stop will be centered within the valve box top extension. The valve box top extension will sit flush with the finish grade.
- 2. The ball valve operational nut shall be located on the top half of the corporation stop upon installation.



PROJECT	SHEET NO.	TOTAL
2023-027	63	74
DETAILS		

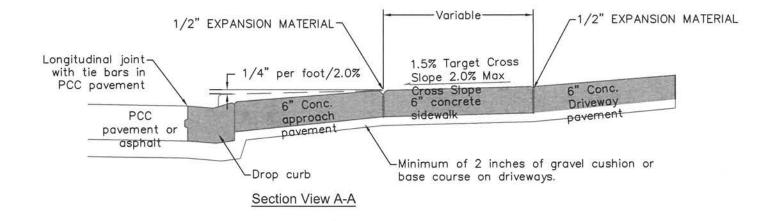


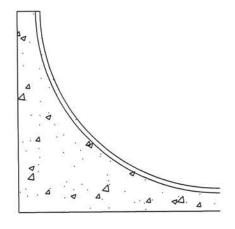
DETAIL FOR CONCRETE FLARES
AND TAPERED CURB AT DRIVEWAYS
N.T.S.



ALL VALLEY GUTTER SECTIONS TO CONTAIN FIBER MESH REINFORCED CONCRETE.

* ALL VALLEY GUTTER SECTIONS TO A MINIMUM OF 8" OR THE SAME THICKNESS AS THE ADJOINING CONCRETE PAVING.





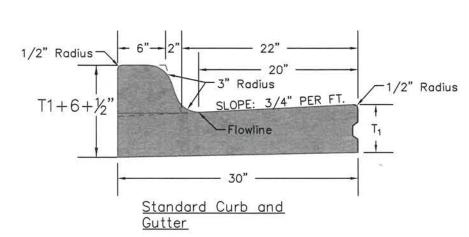
TYPICAL FILLET SECTION

All Fillet sections to contain fiber mesh reinforced concrete.



NO.	SHEETS
64	74
	NO. 64

30" CONCRETE CURB AND GUTTER

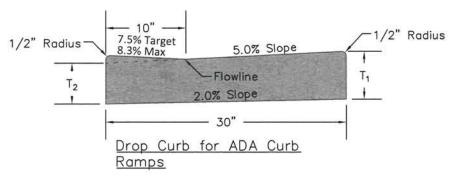


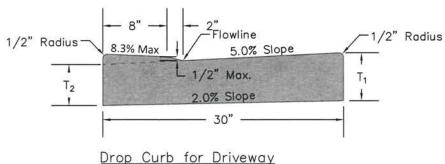
11-		
TYPE	T1 INCHES	CU. YD PER LIN. FT.
B66	6"	0.055
B67	7"	0.063
B68	8"	0.071
B68.5	5 8.5"	0.074
B69	9"	0.078
B69.	5 9.5"	0.082
B61	0 10"	0.086
B610.	.5 10.5"	0.090
B61	1 11"	0.094
B611.	.5 11.5"	0.098
B61:	2 12.0"	0.102

- 1/2" Preformed Expansion Joint Fillers shall be placed, Tranversely in the Curb & Gutter as follows:
- (1) At each junction of Radius return Curb & Gutter and the Curb & Gutter which is parallel to the project centerline.
- (2) At each junction with existing Concrete Curb or Concrete Curb & Gutter
- (3) At each junction with existing sidewalk, to the depth of the sidewalk.
- (4) At a maximum of 195 L.F. appart, measured along the face of the Curb & Gutter.

1/2" Preformed Expansion Joint Filler shall be placed, Longitudinally, along the backface of the Curb, to the depth of the sidewalk, where such backface of Curb is adjacent to an existing Concrete Sidewalk.

Weakened Plane Joints shall be constructed at Approx. 10' intervals. The joints shall be constructed to a minimum depth of one inch by scoring with a tool which coincide with pavement joints leave the corners rounded and insure a free movement of the Concrete at the joint.





Approach

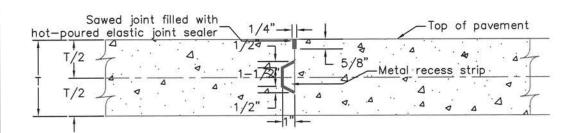
T₁ = Thickness shall be equal to the depth of the adjacent pavement but not less than 6" T₂ = T₁-7/8"

GENERAL NOTES:

- 1) On PCC pavement a keyway longitudinal joint with tie bars shall be used when curb and gutter is poured separately.
- 2) Curb and gutter shall be constructed using M-6 concrete unless monolithically constructed with the adjacent pavement. In monolithic paving, concrete mix for the curb and gutter may be the same as the adjacent concrete pavement.
- 3) The curb transition length at ADA curb ramps will be dependent on the type of curb ramp being installed. The plans should call out the length of the transitions. Refer to SDDOT plate 651.02 for additional curb transition information.



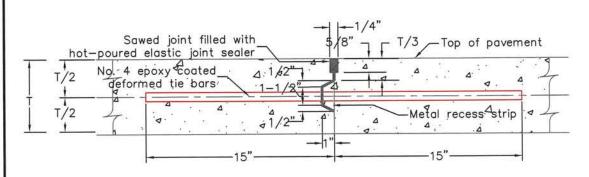
PROJECT	SHEET NO.	TOTAL SHEETS
2023-027	65	74
DETAILS		•



If proposed, approval of alternate designs of the keyway will be considered by the engineer.

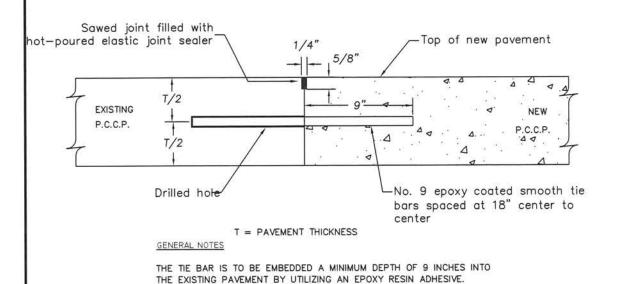
Fillet pavement and adjacent PCC pavement joints shall be keyway construction joints without tie bars.

KEYWAY CONSTRUCTION JOINT WITHOUT TIE BARS



If proposed, approval of alternate designs of the keyway will be considered by the engineer for longitudinal construction joints. The No. 4 epoxy coated deformed tie bars shall be spaced approximately 48" center to center.

KEYWAY CONSTRUCTION JOINT WITH TIE BARS



PCC PAVEMENT TRANSVERSE JOINTS WITH No. 9 SMOOTH TIE BARS

T = PAVEMENT THICKNESS

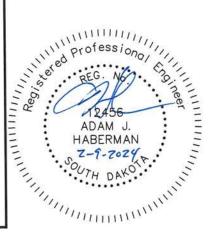
GENERAL NOTES

SAWED JOINT FILLED WITH HOT-POURED ELASTIC JOINT-SEALER OR OTHER SEALER

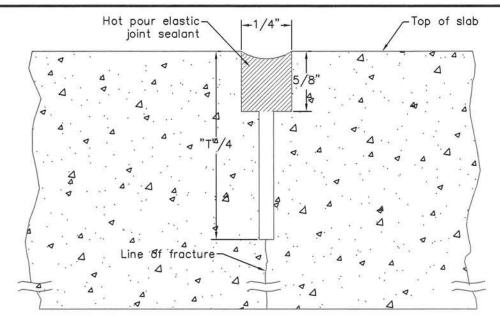
THE TIE BAR IS TO BE EMBEDDED A MINIMUM DEPTH OF 9 INCHES INTO THE EXISTING PAVEMENT BY UTILIZING AN EPOXY RESIN ADHESIVE.

PCC PAVEMENT TRANSVERSE JOINTS WITH No. 5 DEFORMED TIE BARS

BARS SPACED AT 18" CENTER TO CENTER



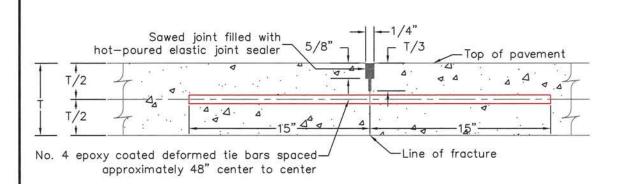
PROJECT	SHEET NO.	TOTAL SHEETS	
2023-027	66	74	
DETAILS	n in the second	•	



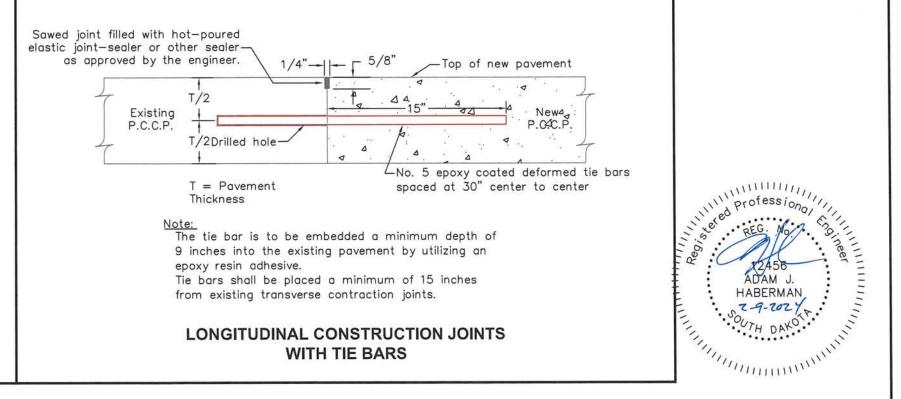
T = Pavement Thickness

The first saw cut to control cracking shall be 1/8"-1/4" wide and a minimum of 1/4 the depth of the pavement. Additional sawing for widening the saw cut to provide the width for the installation of the hot pour elastic joint sealant may be necessary.

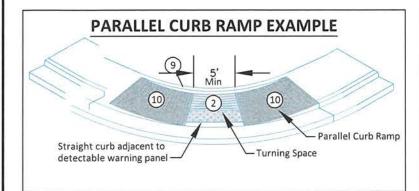
TRANSVERSE CONTACTION JOINT

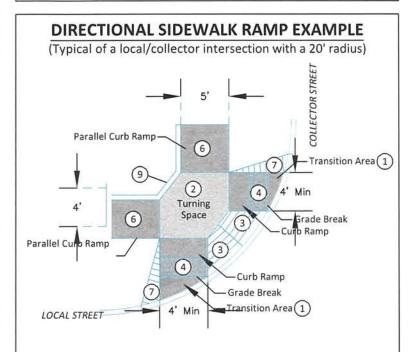


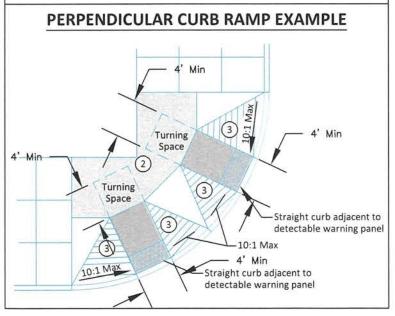
PCC PAVEMENT SAWED LONGITUDINAL JOINTS

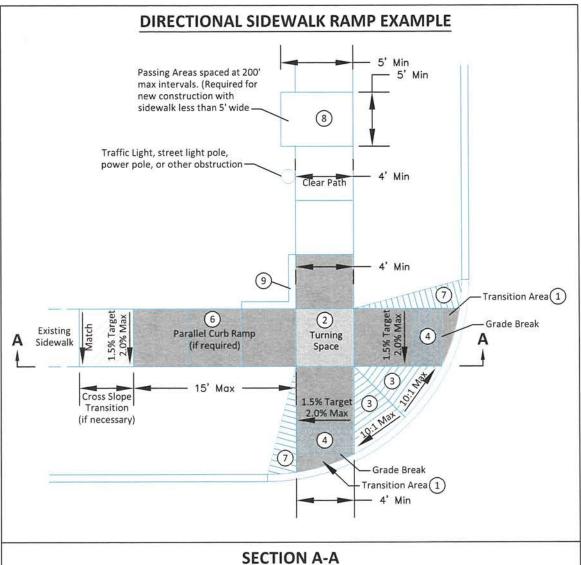


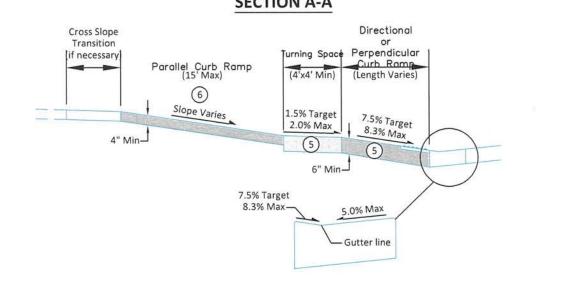
SHEET NO.	TOTAL
67	74
	SHEET NO. 67











NOTES:

- Transition from the the 2% maximum cross slope on the ramp and the
 pedestrian street crossing grade in this area. The maximum cross slope
 on the pedestrian street crossing (including the fillet or curb and
 gutter) is 2% on stop or yield controlled legs and 5% on uncontrolled or
 signalized legs.
- 2. Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0% in any direction. Where the turning space is confined at the back of sidewalk (example: 6" curb or building), the turning space shall be 4 foot by 5 foot minimum. The 5 foot dimension shall be in the direction of the ramp run. The grade change between the turning space and the curb ramp must be perpendicular to the direction of travel.
- 3. Areas where the pedestrian circulation path crosses a curb ramp are considered flare sides. The maximum slope of the flare sides is 10%. Full curb height may not be able to be reestablished on flare slopes but as much curb height as possible should be reestablished.
- Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares. Orient domes in the direction of pedestrian travel unless otherwise stated in plans.
- The concrete in the turning space, curb ramp, and flare slope areas shall be a minimum thickness of 6 inches.
- 6. If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and turning space due to limited ramp length, provide a parallel ramp to make up the elevation difference between the turning space and the standard sidewalk. This parallel ramp shall not exceed 8.3% slope. However, the length of the ramp is not required to exceed 15 feet, regardless of slope. The minimum sidewalk thickness for the parallel ramp in this area is 4 inches.
- Install a 2 foot taper when additional sidewalk will not be located adjacent to the curb ramp.
- Depending on the conditions, a curb up to 6 inches high may need to be installed on the back of the turning space or adjoining sidewalk.
- The slope of curb ramp and adjacent curb is designed at 7.5% or less but shall not be steeper than 8.3% unless otherwise specified in the plans. The curb ramp is not required to exceed 15 feet, regardless of slope. The cross slope target is 1.5% with a maximum cross slope of 2.0%.

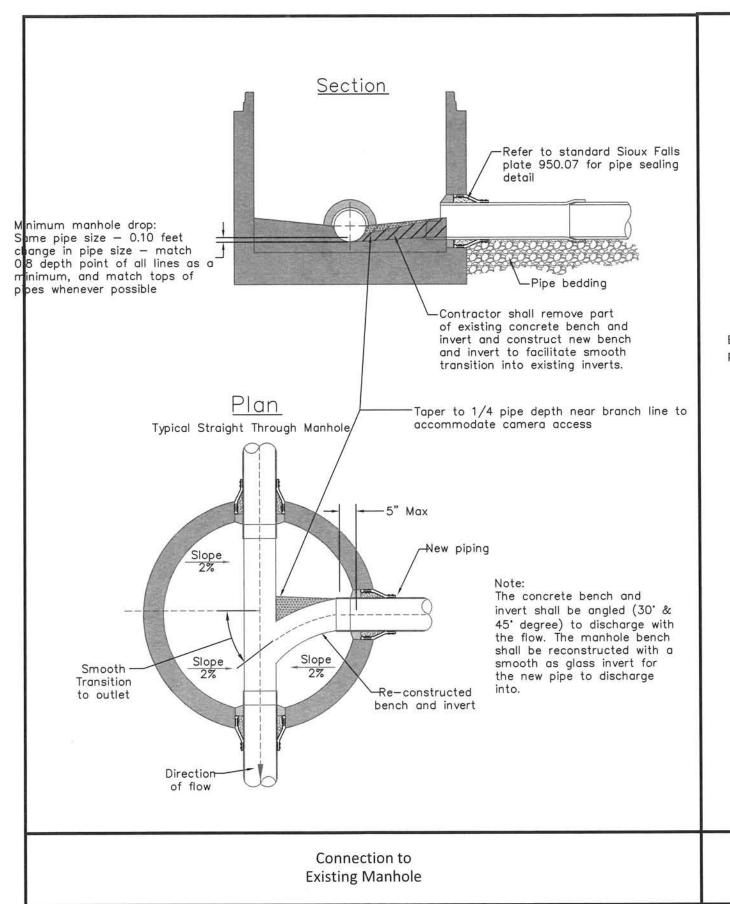
GENERAL NOTES:

The turning space, curb ramp, and detectable warning panel area will be paid for at the contact unit price for the corresponding concrete sidewalk bid item.

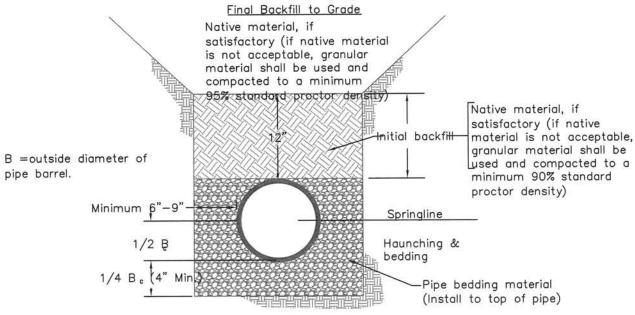
The detectable warning panel shall be measured and paid for to the nearest square foot. Payment shall include all costs for materials, labor, and equipment necessary for the installation of the detectable warning panels.



PROJECT	SHEET NO.	TOTAL SHEETS
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DETAILS		



Bedding Material
For 4" to 12" Diameter
Pipe



Undisturbed soil

for base (see

Note 1)

Note:

Pipe bedding

shovel sliced

material to be

hand tamped or

around haunches.

- If base is unstable, trench shall be undercut and stabilized with trench stabilization material.
 Specifications as per manufacturer's recommendations and A.S.T.M. C12.
- 2. Bedding Material

95% Passing 3/4" sieve 95% Retained #4 sieve

(Clean angular, well-graded, crushed rock. Pea rock may be used for sanitary sewer service lines.)

 The required bedding material under the bottom of the pipe shall be installed prior to pipe installation.

> Bedding and Backfill Requirements For 4" to 12" Sanitary Sewer Pipe

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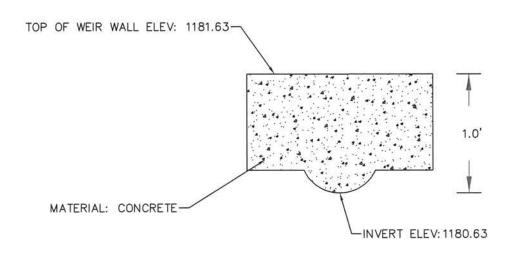
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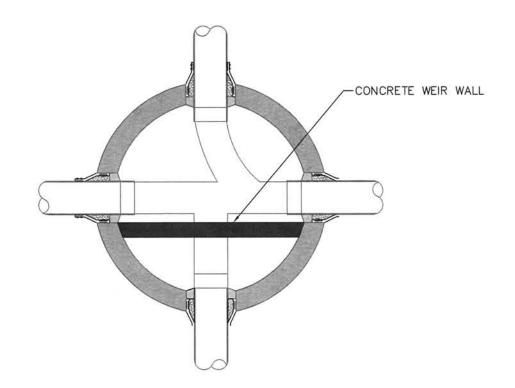
OUTH DAKOT.

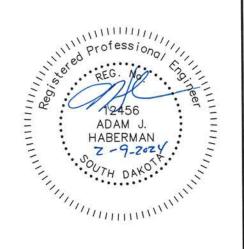
2023-027 74 DETAILS Adjusting rings when required shall form a Manhole cover per standard specifications for sanitary. sewer construction. leak-proof seal. Minimum adjustment of 2", maximum Manhole frame to be adjustment 14". Neenah R1772 or engineer approved equal. External frame seal The manhole invert shall Neenah R1712 (with conform to the same I.D. dimensions of the pipe boltdown cover plate) or engineer approved equal will be required in all easement External joint seal Slope Slope 2% areas outside of the street (typical all joints) R.O.W. unless otherwise directed by the city engineer Neenah R1713 manhole frame 2' - 4' Precast integral shall be installed where base & barrel section Slope 2% Slope manholes are located in with approved pipe 2% concrete pavement thicker gaskets. Manhole gasket 12" Min. than 6 inches. (typical) EJ three bolt campression 5" Max below frame and cover or springline 1.5" Max engineer approved equal above shall be installed in springline Preformed invert, 2" specified areas outside of minimum thickness street R.O.W. with hard Taper to 1/4 pipe depth surfacing. near branch line to Baccommodate camera Plan Typical Straight Through Manhole Native material or crushed rock to form a solid base Watertight gasket, adapter or sealer, press seal gasket corporation psx, or equal Typical Precast & Flat Top Seal around Section (where specified) Precast flat top section pipe with Fill void with typical joint sealed with Seal around no-rigid foam nonshrink grout manhole gasket (typical) pipe with to protect boot (typical) nonshrink grout -Boot from grout professiona, 11, professiono/ Section B-B Section A-A Z-9-2024 OUTH DAKOT Manhole Bench and Sanitary Sewer Manhole **Invert Detail**

PROJECT	SHEET NO.	TOTAL SHEETS
2023-027	70	74
DETAILS	***************************************	

WEIR WALL FOR MH#1 N.T.S.

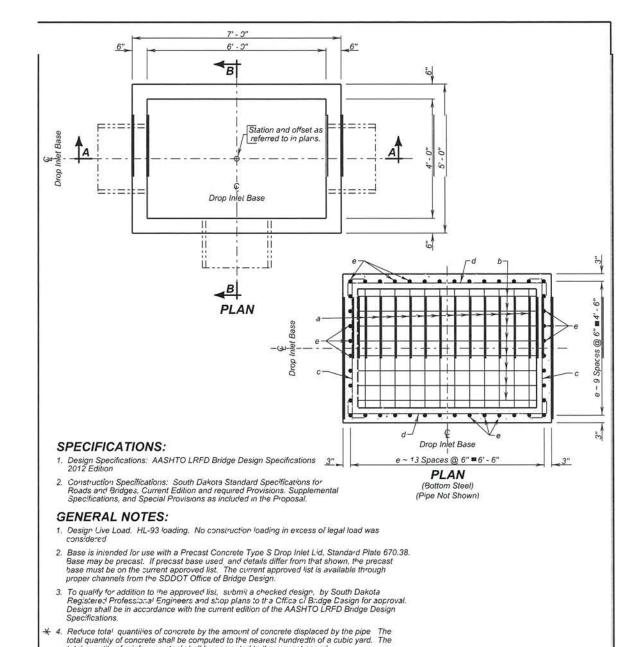






NO. SHEE 2023-027 71 74

QUANTITIES



DISPLACEMENT REDUCTIONS Class Mi Concrete Diameter (Inches) (Cu. Yd.) 0.03 0.04 15 21/2 18 0.05 24 0 09 0.14 30 4 0.20 4 1/2 0.25 48 18 21/2 0.05 31/2 24 0.09 30 4 0.14 4 1/2 0.19 42 4 1/2 0.24 5

a ~ 13 Spaces @ 6" ■ 6' - 6

7'-0"

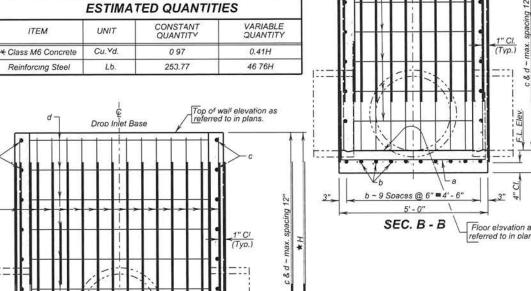
Published Date: 2024

SEC. A - A

T

JK.	No.	Size	Length	Туре			L	Bendi	ng Details
a	11	5	9'-6"	17	120041.2007		957		
b	10	5	11' - 6"	17	0 0	9	в	L.	
С	2H	4	5' - 6"	17	. 4	4.	4"		
d	24	4	7' - 6"	17	5, 5,	à	à.		
e	44	4	H - 2"	Str.	<u>Y</u>		14	LL	
								a	4' - 10"
								b	6' - 10"
								c	4' - 8"
								d	6' - 8"
NO	TE:								Type 17

C Drop Inlet Base



SEC. B - B Floor elevation as referred to in plans. ★ Maximum H is 8' - 0" Floor elevation as referred to in plans.

S D D O 4'X 6'TYPE S DROP INLET BASE

June 26, 201 PLATE NUTBER 670.30g Sheet 2-of 2

4'X 6'TYPE S DROP INLET BASE

670.30

Published Date: 2024

9. The dimension of H is in feet Maximum H is 8 feet.

D DO

Maximum R.C.P. diameter shall not exceed 36 inches (30 inches for R.C. Arch) on the 4-foot wide side and shall not exceed 54 inches (48 inches for R.C. Arch) on the 6-foot wide side of the Drop Inlet.

total quantity of reinforcing steel shall be computed to the nearest pound.

8. Use 1 inch clear cover on all reinforcing steel unless otherwise noted.

Inlets shown may be modified by the addition or or ission of connecting pipes as shown on the layouts. Connecting pipes shall not enter the inlet through the corners.

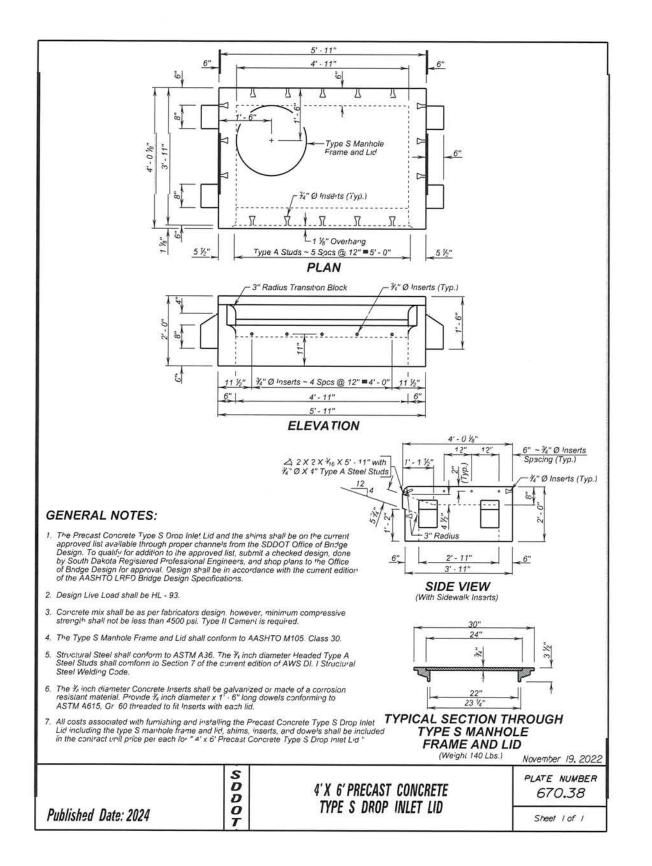
Reinforcing steel shall conform to ASTM A615 Grade 60. Cull and bend reinforcing steel as required to place pipe(s) through the inlet wall.

Sheet I of 2

PLATE NUMBER

June 26, 2015

Profession ADAM J. TOWN HTWO



PROJECT	SHEET NO.	TOTAL SHEETS
2023-027	72	74
DETAILS		

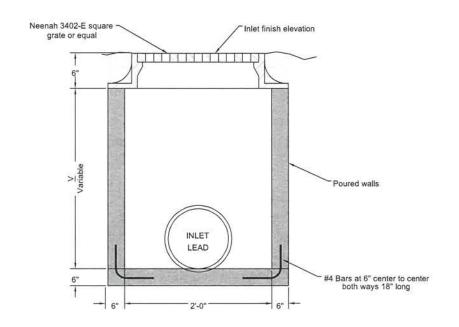
ADAM J.
HABERMAN

SOUTH DAKO.

PROJECT	SHEET NO.	TOTAL
2023-027	73	74
DETAILS	***************************************	

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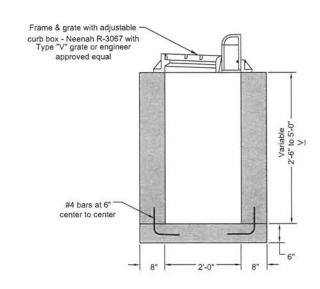


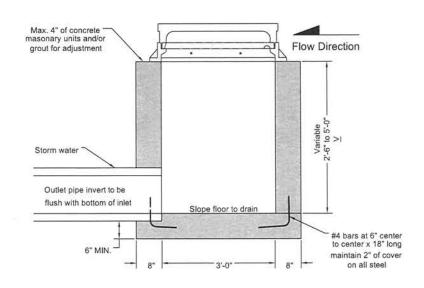
Estir	mated Quan	tities	
Item	Unit	Constant	Variable
* Class M6 concrete	CuYds	0.17	0.19V
Reinforcement-conc. masonry	LBS	16	

^{*} Constant shall be reduced for the appropriate pipe or Combination of pipes, thus: 12" Dia.=-0.03 C.Y., 15" Dia=-0.04 C.Y., 18" ia.=-0.05 C.Y., 24" Dia.=-0.09 C.Y.

Estir	nated Quan	tities	
Item	Unit	Constant	Variable
* Class M6 concrete	CuYds	0.27	0.32V
Reinforcement-conc. masonry	LBS	28	

* Constant shall be reduced for the appropriate pipe or Combination of pipes, thus; 12" Dia.=-0.03 C.Y., 15" Dia=-0.04 C.Y., 18" Dia.=-0.05 C.Y., 24" Dia.=-0.09 C.Y.





Revised: December 1995

CITY OF SIOUX FALLS **PUBLIC WORKS** Providing a Better Quality of Life for You!

2' X 2' Catch Basin for Storm Water

Specification Reference No. 460

Plate Number 460.08

Revised: December 1995

CITY OF SIOUX FALLS **PUBLIC WORKS** Providing a Better Quality of Life for You!

2' x 3' Type B Inlet for Storm Water

Specification Reference No. 460

Plate Number 460.07

PROJECT	SHEET NO.	TOTAL SHEETS
2023-027	74	74
DETAILS		W.

Where to Place the Mailbox

Here are some helpful guidelines to follow when placing your mailbox:

- Position your mailbox 41" to 45" from the road surface to the bottom of the mailbox or point of mail entry
- Place your mailbox 6" to 8" back from **THE FACE** of the curb. If you do not have a raised curb, contact your local postmaster for guidance.
- Put your house or apartment number on the mailbox.
- If your mailbox is on a different street from your house or apartment, put your full street address on the box.

