

 PROJECT	SHEET NO.	TOTAL SHEETS
2023-028	1	54
COVER SH	EET	

1	COVER SHEET
2-3	QUANTITIES
4-7	NOTES
8-10	SWPPP
11-12	TYPICAL SECTION
13-14	TRAFFIC CONTROL
15	EROSION CONTROL
16-19	REMOVALS
20-27	PLAN/PROFILE
28-31	JOINT LAYOUT
32-34	WATERMAIN
35	SEWER
36-38	STORM SEWER
39-48	DETAILS
49-54	CROSS SECTIONS



BID		BID		BID		BID QUANTITY		-
ITEM	DESCRIPTION GENERAL	QUANTITY	UNIT	ITEM	DESCRIPTION WATERMAIN	QUANTITY	UNIT	-
1		1	LS	28	4" PVC WATERMAIN C-900	8	LF	
I	MOBILIZATION TRAFFIC CONTROL	T	LS	29	6" PVC WATERMAIN C-900	1210	LF	
2	TRAFFIC CONTROL	1336	UNITS	30	10" PVC WATERMAIN C-900	10	LF	
3		1	LS	31	1" CURB STOP AND BOX	25	EA	
Ū.	REMOVALS	Ŧ	LU	32	1" COPPER SERVICE LINE	1138	LF	
4	SAW EXISTING CONCRETE	500	LF	33	6" MJ TEE	1	EA	
5	REMOVAL OF CONCRETE PAVEMENT	9303	SY	34	6" X 4" MJ TEE	1	EA	
6	REMOVAL OF CURB AND GUTTER	50	LF	35	10" X 6" CROSS	1	EA	
7	UNCLASSIFIED EXCAVATION	1	LS	36	6" MJ CAP	2	EA	
8	UNDERCUTTING	100	CY	37	10" MJ GATE VALVE WITH BOX	2	EA	
9	WATER FOR EMBK. OR GRAN. MATRL	25	KGAL	38	6" MJ GATE VALVE WITH BOX	7	EA	
-	EROSION CONTROL	20		39	4" MJ GATE VALVE WITH BOX	1	EA	
10	TOPSOIL	1	LS	40	4" MEGALUGS	3	EA	
11	SEEDING	1	LS	41	6" MEGALUGS	40	EA	
12	VEHICLE TRACKING CONTROL	2	EA	42	10" MEGALUGS	8	EA	
13	INLET SEDIMENT CONTROL	8	EA	43	6 X 45 DEGREE MJ BEND	8	EA	
14	SILT FENCE	100	LF	44	6" MJ OVERSIZED SLEEVE	2	EA	
15	GEOTEXTILE FABRIC	600	SY	45	10" MJ OVERSIZED SLEEVE	2	EA	
	SANITARY SEWER		0.	46	GRANULAR MATERIAL FOR WATER MAIN	1228	LF	
16	REMOVAL OF SAN. SEWER LINE	10	LF	47	INSTALL TEMPORARY FIRE HYDRANT	3	EA	
17	8" PVC SANITARY SEWER MAIN 13-15'	10	LF	48	INSTALL FIRE HYDRANT	1	EA	
18	48" SANITARY SEWER MH	1	EA	49	REMOVE EXISTING VALVE	1	EA	
19	SANITARY SEWER SERVICE REPAIR	1 1	EA	50	REMOVE EXISTING FIRE HYDRANT	1	EA	
20	GRANULAR MATERIAL FOR SEWER MAIN	10	LF	51	CUT AND TIE INTO EXISTING WATERMAIN	7	EA	
20	STORM SEWER	10	LI	52	CONNECT WATER SERVICE LINES	25	EA	
21	2X3 TYPE B INLET	8	EA	50		5117	SY	
22	4X4 SS JUNCT. BOX	3	EA	53 54	8" PCCP PAVEMENT 6" PCCP PAVEMENT	3480	SY	
23	F&I 15" RCP CL IV	450	LF	55	CONCRETE C & G TYPE B68	1449	LF	
24	F&I 18" RCP CL III	180	LF	56	CONCRETE C & G TYPE B66	884	LF	professiono
25	REMOVAL OF EXISTING PIPE	286	LF	57	6" APPROACH PAVEMENT	7380	SF	Noted
26	REMOVAL OF MH/JB/DI	200	EA	58	4" SIDEWALK	1216	SF	
20	CORE INTO EXISTING INLET	1	EA	59	6" SIDEWALK	15908	SF	2456 °
21	CORE INTO EXISTING INLET	Ŧ	14	60	AGGREGATE BASE COURSE	9453	SY	ADAM J. HABERMAN
				61	DRILL BARS INTO EXISTING PAVEMENT	202	EA	5-13-2024
				62	DETECTABLE WARNING PANELS	36	SF	
				63	TEMPORARY BOARDWALK	5720	SF	"Internet and the second se
				64	R & R MH FRAME AND COVER	2	EA	*/////////
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2023-028 2 54 QUANTITIES	PROJECT	SHEET.	COTAL SHEETS
	2023-028	<u>N0.</u> 2	
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### TABLE

							PROJE	CT SHEET TOTAL
								NO. SHEETS
							2023	-028 3 54
TABLE OF REMOVE AND REPLACE	MENT OF 6" CONC	RETE SIDEWALK AND RAMPS						QUANTITIES
	REMOVE(SY)	REPLACE (SF)	TABLE OF DROP INLETS AND JUNCT	ON BOXES				
0+36 LT. 4TH TO 5TH 0+75 LT. 4TH TO 5TH	12.9 11.6	116 105				TABLE OF REMOVE AND R	EPLACEMENT OF C	ONCRETE APPROACH PAVEMENT
1+25 LT. 4TH TO 5TH	12.4	112	LOCATION	TYPE	QUANTITY	<u></u>		
1+59 LT. RAMP 2ND TO 3RD		12 SF DWP	0+54 LT. (2ND TO 3RD ST)	8	1	LOCATION CEDAR ST	REMOVE(SY)	REPLACE (SF)
1+64 LT, 4TH TO 5TH	14.5	131	0+56 CL. (2ND TO 3RD ST)	JCT. 4X4	1			68
2+03 RT. 4TH TO 5TH .	6.8	62 10 00 000	1+04 RT. (2ND TO 3RD ST)	B	1	0+38 LT.(2ND TO 3RD)	11.4	68
2+49 LT. RAMP 2ND TO 3RD		12 SD DWP	2+08 CL. (2ND TO 3RD ST)	JCT. 4X4	i	0+79 LT.(2ND TO 3RD)	12.5	67
3+27 LT. RAMP 3RD TO 4TH	<del></del>	12 SF DWP	2+10 LT. & RT (2ND TO 3RD)	B	2	0+84 RT.(2ND TO 3RD)	17.3	155
*NOTE*			2+26 LT. & RT (3RD TO 4TH)	В	2	1+49 RT.(2ND TO 3RD)	12	112
ALL SIDEWALK FROM 2ND TO 4		CONC. 15382 SF	2+35 LT. (3RD TO 4TH)	JCT. 4X4	2	1+95 LT.(2ND TO 3RD)	55	492
ALL SIDEWALK FROM ZND TO 4		JUNU. 13362 3F		B	1	2+33 RT(2ND TO 3RD)	14.4	139
		<u>526</u> (TOTAL 6″ 4th to 5th)	2+19 LT. & RT. (4TH TO 5TH)	В	2	0+85 LT.(3RD TO 4TH)	5.5	66
		<u>328</u> (101AL 0 401 (0 501)				0+87 RT.(3RD TO 4TH)	9	841
						1+43 RT.(3RD TO 4TH)	15.8	143
TOTAL	58.2	15908 SF				1+89 LT.(3RD TO 4TH)	36.4	328
10 ME						2+08 RT.(3RD TO 4TH)	16.4	146
			TABLE OF REMOVE AND REPLACE OLD SEWER F	RAME AND COVERS	AND NEW MH	2+74 RT. (3RD TO 4TH)	17.2	155
					<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	3+50 RT.(3RD TO 4TH)	12.5	113
			LOCATION	QUANTITY		0+34 RT.(4TH TO 5TH)	92	828
						0+34 LT.(4TH TO 5TH)	52	531
			MH#1 3+40 - 17.2'LT (2ND TO 3RD ST.)	1		0+74 LT.(4TH TO 5TH)	57	477
TABLE OF REMOVE AND REPLAC	CEMENT OF 4" CON	ICRETE SIDEWALK				0+88 RT.(4TH TO 5TH)	31.7	286
			FRAME AND COVER 1+76-LT. (ALLEY)	1		1+26 LT.(4TH TO 5TH)	58	483
LOCATION CEDAR 4TH TO 5TH	REMOVE(SY)	REPLACE (SF)	FRAME AND COVER 3+31-LT. (ALLEY)	1		1+78 LT.(4TH TO 5TH)	119	1060
0+25 to 1+77 LT.	52.2	470	· · · ···-			2+03 RT.(4TH TO 5TH)	33.7	306
0+58 RT.	3.3	30				2+61 LT.(4TH TO 5TH)	47.2	449
0+67 RT.	3.3	30					5.0	0
0+88 RT.	3.3	30				2+95 LT.(4TH TO 5TH)		
1+24 RT.	14	126				2+52 RT.(ALLEY)	<u>15</u>	<u>135                                    </u>
1+33 RT.	4	36						
1+63 RT.	3.3	30						
1+97 RT.	30.5	275	TABLE OF EXISTING THICKNESS OF ASPHALT O	R CONCRETE ON PR	OJECT			
2+23 RT.	3.1	28				TOTAL	746	7380
2+33 LT.	2.7	24	LOCATION EX. ASPHALT	EX. CONCRETE		IUTAL	140	1000
2+82 RT.	3.2	29	CEDAR 2ND TO 3RD 0"	7"				
3+12 RT.	3.7	34	CEDAR 3RD TO 4TH 2.5"	6.5"				
3+26 RT.	3.0	27	CEDAR 4TH TO 5TH 1.5"	6.5"				
3+48 RT.	2.1	19		0"				
3+66 LT.	<u>3.1</u>	<u>28</u>		0 0*				
			PARKING LOT . 4"	Ų				

2.1 <u>3.1</u>	19 <u>28</u>
	<b>1216</b> (TC
135	1216 SF

1216 (TOTAL	4")
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TOTAL

135

LOCATION	EX. ASPHALT	EX. CONCRETE
CEDAR 2ND TO 3RD	0"	7"
CEDAR 3RD TO 4TH	2.5"	6.5"
CEDAR 4TH TO 5TH	1.5"	6.5"
ALLEY.	4"	0"
PARKING LOT .	4"	0"

JOB C	CONTROL 2ND TO 4TH	
CP	N 209030.6100 F 2755926.328	JC
	ELEV.   206.544	CP
CP 2	N 209170.487 E 2756008.0170	
	ELEV.   206.228	CP
CP 3	N 209514.6480 E 2755931.5010	
	ELEV.   206.796	CP
CP 4	N 209698.964	
	E 2755999.695 ELEV. 1206.729	

OB CONTROL 4TH TO 5TH P | N 210068.5570 E 2755918.353 ELEV. 1205.652 P 2 N 210120.7920 E 2755909.151 ELEV. 1205.622 3 N 210165.794 E 2755747.8050 ELEV. | 206.674



# **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.

Contractor to have pavement in place from 4<sup>th</sup> to 5<sup>th</sup> on Cedar for residents and businesses to park on before the parking lot and alley removals take place.

# 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.

# **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 use the shortest, most direct path from the designated truck route for hauling.

# **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 acceptable.

# 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.

incorporated.

2. MATERIALS

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

3. LABOR AND EQUIPMENT

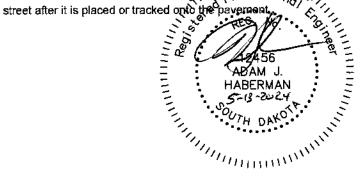
All necessary labor and equipment shall be supplied to clean up any dirt or gravel off of the paved roadway surfaces at the end of each day. The contractor shall also remove any service gravel that has dirt mixed in with it from the project site when the tracking control is no longer necessary. Clean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

# 4. PAYMENT

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

Service gravel shall be paid for at the unit price bid in the contract for service gravel. Unit price for "Temporary Vehicle Tracking Control" shall be the amount paid for each site where the engineer requires the use of the temporary vehicle tracking control for however long it is needed. The Contractor will be charged \$50,001 me as have that dirt is not cleaned off of the



# EROSION CONTROL - SILT FENCE NOTES

## 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, 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:

Manufacturer/Distributor	Brand Name
Amoco Fabrics & Fíbers Co.	Silt Stop
Carthag Mills	FX-325
Ling Industries Fabrics	GTF 400 EO
Mirafi Division of Nocolon	700 XG
Webtec, Inc.	Econofence with netting

3. BACKFILL

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 Ltilities 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 1111/1/// Contractor can obtain a list of permitted solid waste disposal facilities in the Yanktonarea of 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.2

# UNCLASSIFIED EXCAVATION

Unclassified Excavation will be paid for on a lump sum basis. The bid item for "Unclassified at a Excavation" shall include removing the existing material to a depth of -" incluss below the new will be the Contractor's responsibility to find a location for the existing subgrade material, that needs to be removed.

Estimate of 1821 cu yds, of removal on Cedar 2<sup>nd</sup> to 5<sup>th</sup>, Parking lot and Alley

# 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 to supply fire hydrants 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.

Eng. 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.

# **OUT AND THE TO EXISTING WATER MAIN**

ADAM J.

HABERMAN

5-13-2024

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".

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2023028	5	54
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# 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.

### SLEEVES, RETAINER GLANDS AND BOLTS

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.

Bolts shall be the blue fluoropolymer coated bolts, corrosion resistant in accordance with ANSI/AWWA C111/A21.11

### 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 alioy. 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 number of joints.

# **PAVING & RESTORATION NOTES**

#### GEOTEXTILE FABRIC FOR SUBGRADE STABILIZATION

Geotextile fabric shall be installed at locations designated by the engineer undemeath 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 expense to the owner. The repair shall consist of a patch of the same type of geotextile a shall expense to the owner. The repair shall consist of a patch of the same type of geotextile a shall explore the same type of geotextile a shall expl minimum of 3' from the edge of any part of the damaged area. Geotextile fabric shall possible i ono Eng. to the requirements listed below. The contractor shall provide a certificate of congotance verifying that the material meets the specification prior to the installation of the abric. 1. Wide Width Tensile Strength (ASTM D-4595) 3600lh/ff 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.

4, UV Resistance at 500 hours (ASTM D-4355) 70% min.

- 1. Mirafi HP370
- 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 vards will not be varied to achieve the required elevation.

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 concrete.

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 frimming 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 searce by Section 380 P.

ADAM J.

HABERMAN

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The City has verified that the following products meet these specifications.

2. Propex Getotex 3x3

# 6" AND 8" NONREINFORCED CONCRETE PAVEMENT

Joints to be sealed shall be thoroughly sandblasted, clean and dry as required

# 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.

# STEEL BAR INSTALLATION

The Contractor shall install Steel No. 9x18" 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 payement 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".

Steel bars shall be installed at the following locations:

LOCATION	#5 BARS EACH
2 <sup>nd</sup> to 3 <sup>rd</sup> (South end)	42
2 <sup>nd</sup> to 3 <sup>rd</sup> (North end)	40
3rd to 4th (South end)	40
3rd to 4th (North end)	40
$4^{th}$ to $5^{th}$ (South end)	20
4 <sup>th</sup> to 5 <sup>th</sup> (North end)	20

#### 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 elast c 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.

### DETECTABLE 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:

> Product Armor Tile Modular Paver Series

Detectable Warning Tile Composite Wet-Set

Manufacturer Engineered Plastics Inc. 300 International Drive, Suite 100 Williamsville, NY 14221 800-682-2525 http://www.armor-tile.com/ ADA Solutions, Inc. 323 Andover Street 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, ST

Existing vegetatio practicable.

The areas to be co areas. Material sh

The estimated am specified depth ar

Table of Topsoil

2+00 to 3+60 we

4th to 5th

# SEEDING

All grass areas dis all areas disturbed refer to SD-DOT S provided, by the C Engineer.

The estimated an

#### SEED MIXTURE

Kentucky Bluegra

Perennial Rve Gr

Park Kentucky Bl

# FERTILIZER ANI

Fertilizer shall be 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 shart have reasonable accommodations to allow for the homeowner's sprinkler contractor to make final repairs and the ABERMAN 

 accommodations to allow for the noncoverse of the HABERMAIN adjustments.

 WATERING

 Water for compaction is incidental to other pay items./Water from city fire hydrants is to be

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OCKPILIN	G, AND P	LACING	TOPSOIL			
on shall be s	alvaged,	incorporat	ed and placed with	the tops	soil as far	as
covered with hall be free			of +/- 3 inches comp	orise all	newly gra	ded
nounts of sa re as follow		psoil requ	ired to cover the de	signated	i areas to	the
	<u>Cu.Yd</u> .					
est side	10	( Cedar	3rd to 4 <sup>th</sup> )			
	90					
d by Contra Standard S	ctor. Pric	e shall als 5 Edition s	be hydro-mulched. so include the cost f section 730 and 731 set unless an alterna	or fertiliz	zer and fit	er mulch, ill be
mount of are	ea to be se	eeded:	11760 SF			
		PURE	LIVE SEED/ 1000 F	T. SQ.		
ass			1 pound			
rass			1 pound			
luegrass			1 pound			
D MULCHI	NG					
			4-6. Rate applied s			

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

# 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 DESCRIPTION (4.2.1)
- > 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))  $\geq$
- > Major Soil Disturbing Activities (check all that apply)
  - Clearing and grubbing
  - Excavation/borrow
  - Grading and shaping
  - Fillina
  - Cutting and filling
  - Other (describe):
- Total Project Area 1.5 acres (4.2 1.b.) >
- Total Area To Be Disturbed .50 acres (4.2 1.b.)
- Existing Vegetative Cover (%) 25%  $\geq$
- Soil Properties: AASHTO Soil Classification (4.2 1. d.)  $\geq$
- Name of Receiving Water Body/Bodies Missouri River (4.2 1.e.) 1
- ORDER OF CONSTRUCTION ACTIVITIES (4.2 1.c.) ٠

(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).
- $\geq$ 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. 2
- > 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. <u>}</u>
- Complete traffic control installation and protection devices. >
- Reseed areas disturbed by removal activities. تؤ

#### EROSION AND SEDIMENT CONTROLS (4.2 2.a.(1)(a)-(f)) ٠

(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
  - C 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 Inlet Protection
  - 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 properpractices 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.

- - silt fence.

  - •

# Non-Storm Water Discharges (3.0)

of this project (check all that apply).

- Discharges from water line flushing. ۴
- ¥ hazardous materials have occurred.
- ۶ activities.

# Materials Inventory (4.2, 2.c.(2))

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

- ۶  $\geqslant$ Detergents
- ۶ Paints
- Metals ينخ ا  $\geq$ Bituminous Materials
- ¥ Petroleum Based Products
- Cleaning Solvents >
- Wood
- Cure \$
- ۶ Texture

۴

- Chemical Fertilizers
- Other

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SWPPP		

# > Maintenance and Inspection Practices(Continued)

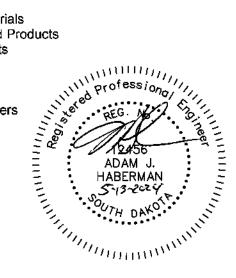
 Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches  $\frac{1}{3}$  of the height of the

Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction. Check dams will be inspected for stability. Sediment will be removed when depth reaches 1/2 the height of the dam. All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations. Inspection and maintenance reports will be prepared on form DOT 298 for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents. The City Engineer and contractor's site superintendent are responsible for inspections. Maintenance, repair activities are the responsibility of the contractor. The City Engineer will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

The following non-storm water discharges are anticipated during the course

Pavement wash-water, where no spills or leaks of toxic or

Uncontaminated ground water associated with dewatering



# 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.

#### ۶ 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)

- site.

- response materials.
- . 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.

# 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.

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 Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the contractor at the

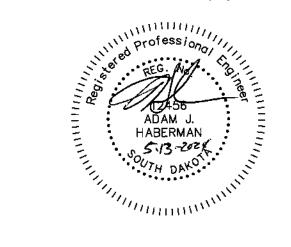
If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed 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

Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response

> Any spill of oil or hazardous substance to waters of the state must be reported immediately by telephone to the SD DENR.



# ♦ <u>CERTIFICATIONS</u>

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.)

# ♦ CONTACT INFORMATION

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

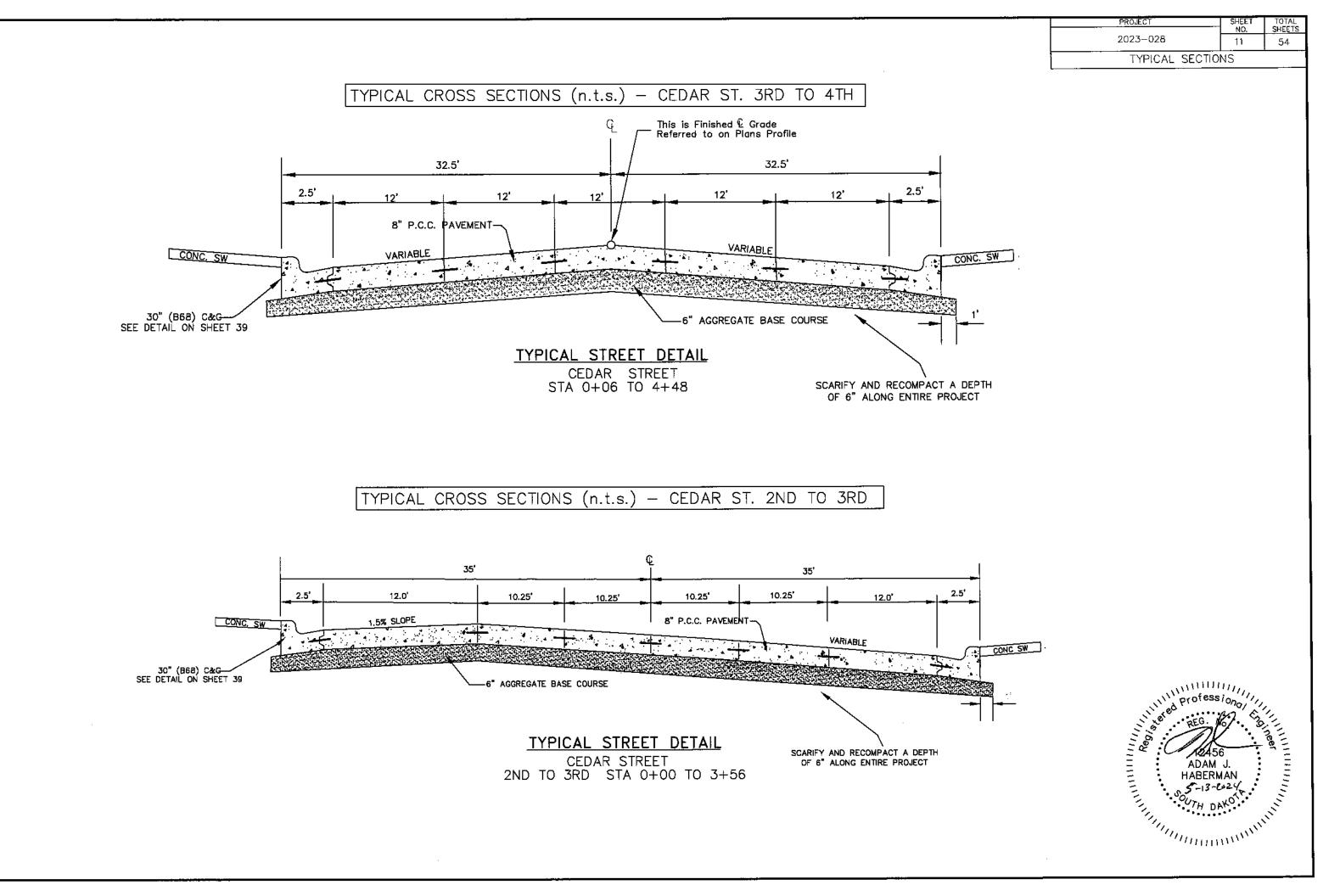
# **Erosion Control Supervisor**

- Name:
- Address:
- Address:
- City: State: Zip:
- Office Phone: 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:

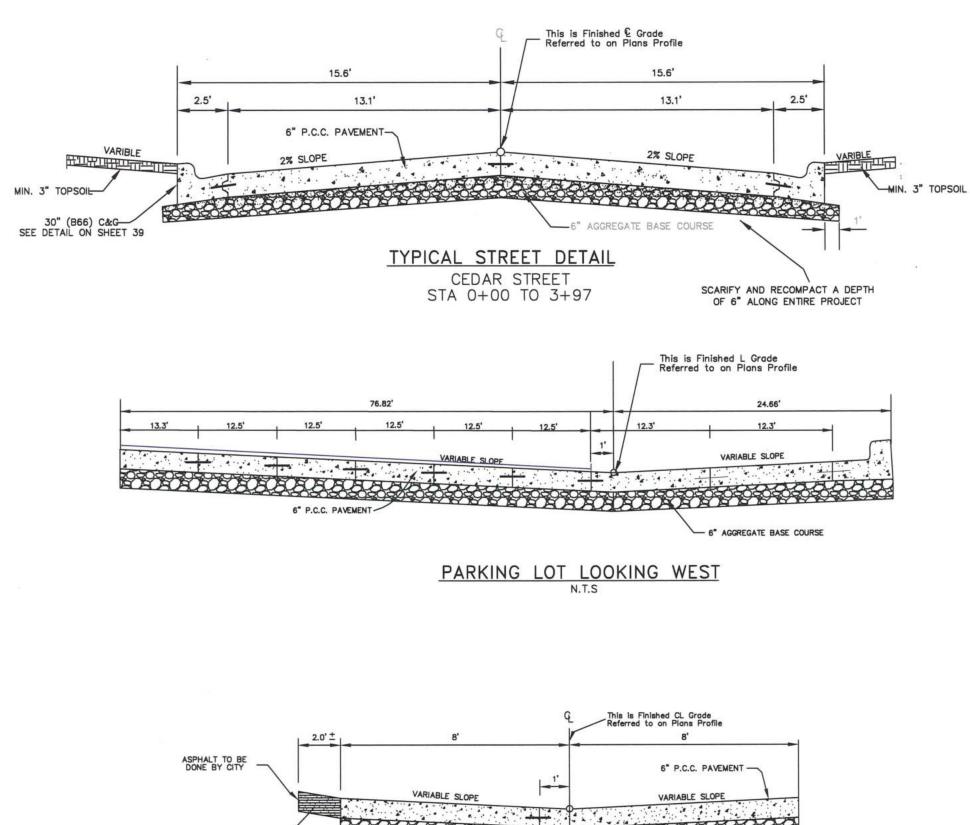
Cell:

- > 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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TYPICAL CROSS SECTIONS(n.t.s.) - CEDAR ST. 4TH TO 5TH



2999

ALLEY STA. 0+00 TO 4+17 N.T.S

STA. 0+09 TO 0+90

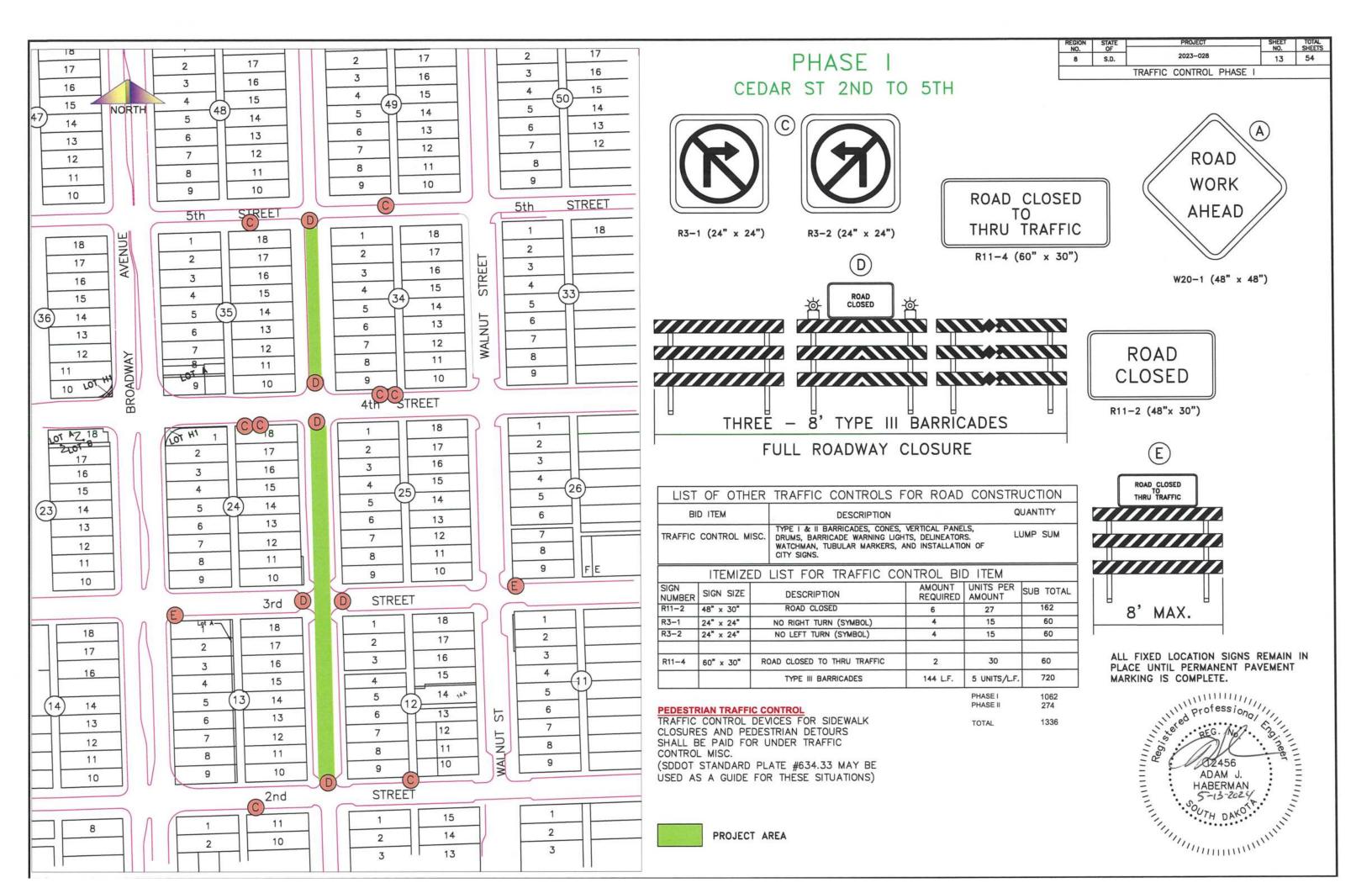
STA. 1+90 TO 3+12

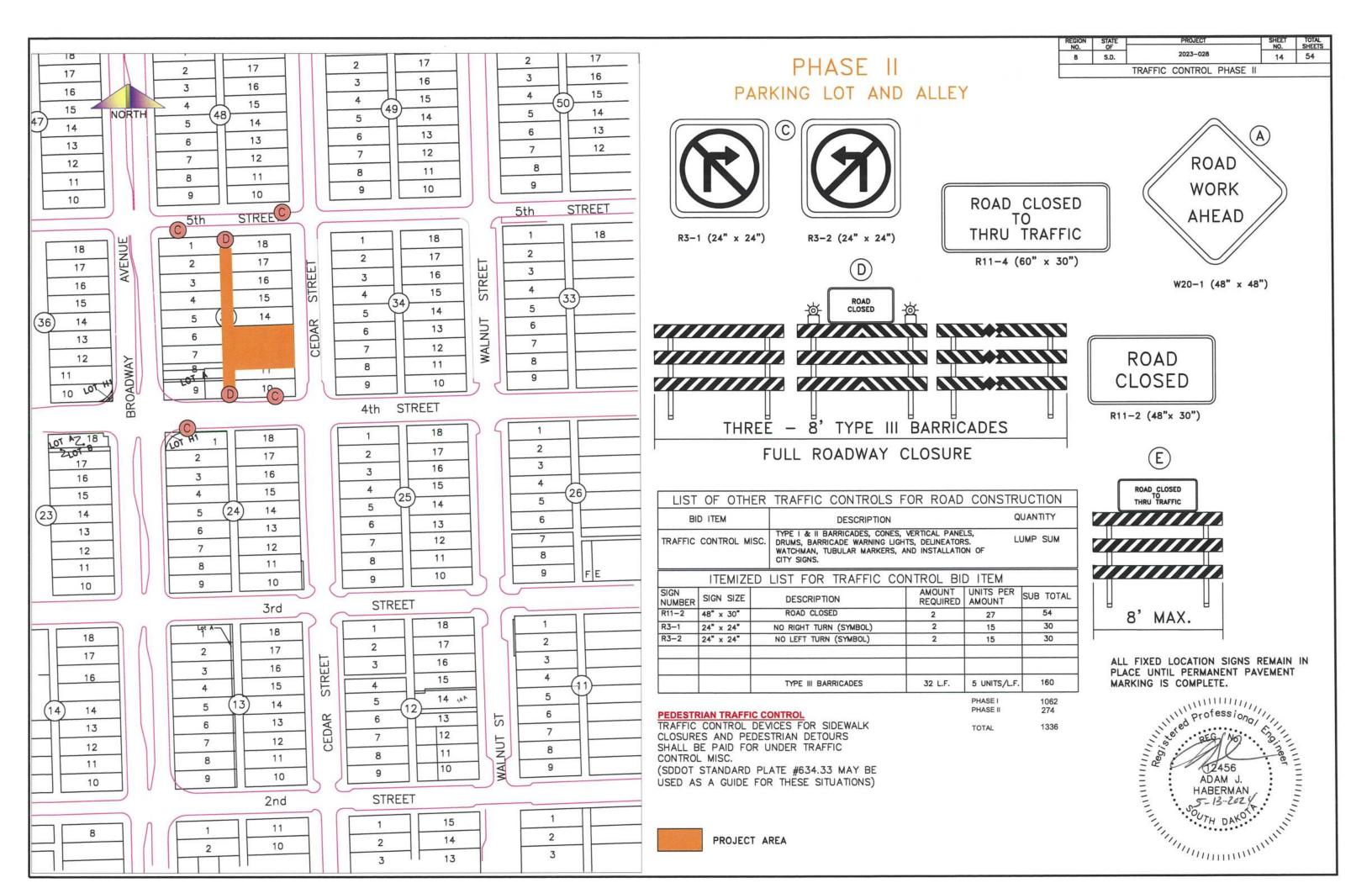
9**4**94949

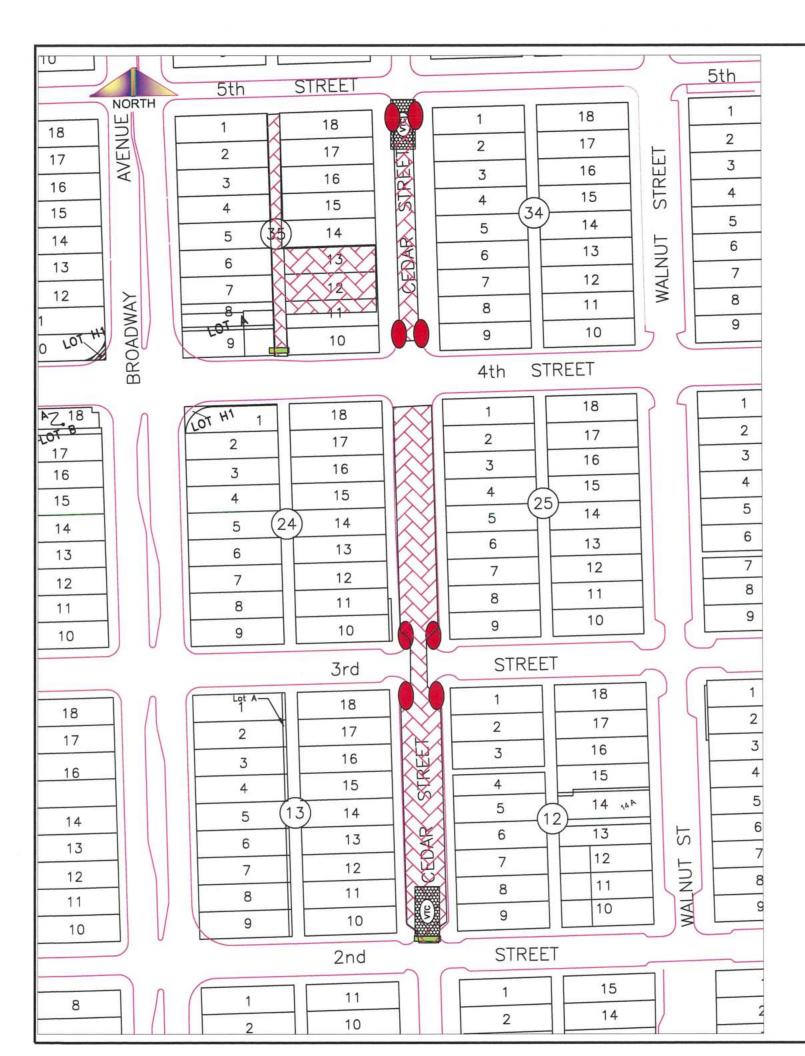
- 6" AGGREGATE BASE COURSE

REGION NO.	OF	PROJECT	SHEET NO.	TOTAL
8	S.D.	2023-028	12	54
		TYPICAL SECTIONS		













-VEHICLE TRACKING CONTROL (TYP.) SEE DETAIL SHEET 34 PLATE #734.02 -2 USED (SOUTH END OF CEDAR AND AT THE NORTH END)



-SILT FENCE (TYP.) SEE SHEET # 34 60 L.F. USED



PROJECT AREA



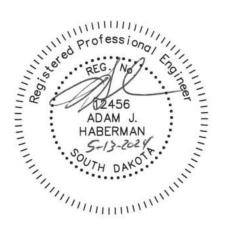
-INLET PROTECTION (TYP.) SEE SHEET #48 -4 USED AT THE 3RD AND CEDAR INTERSECTION

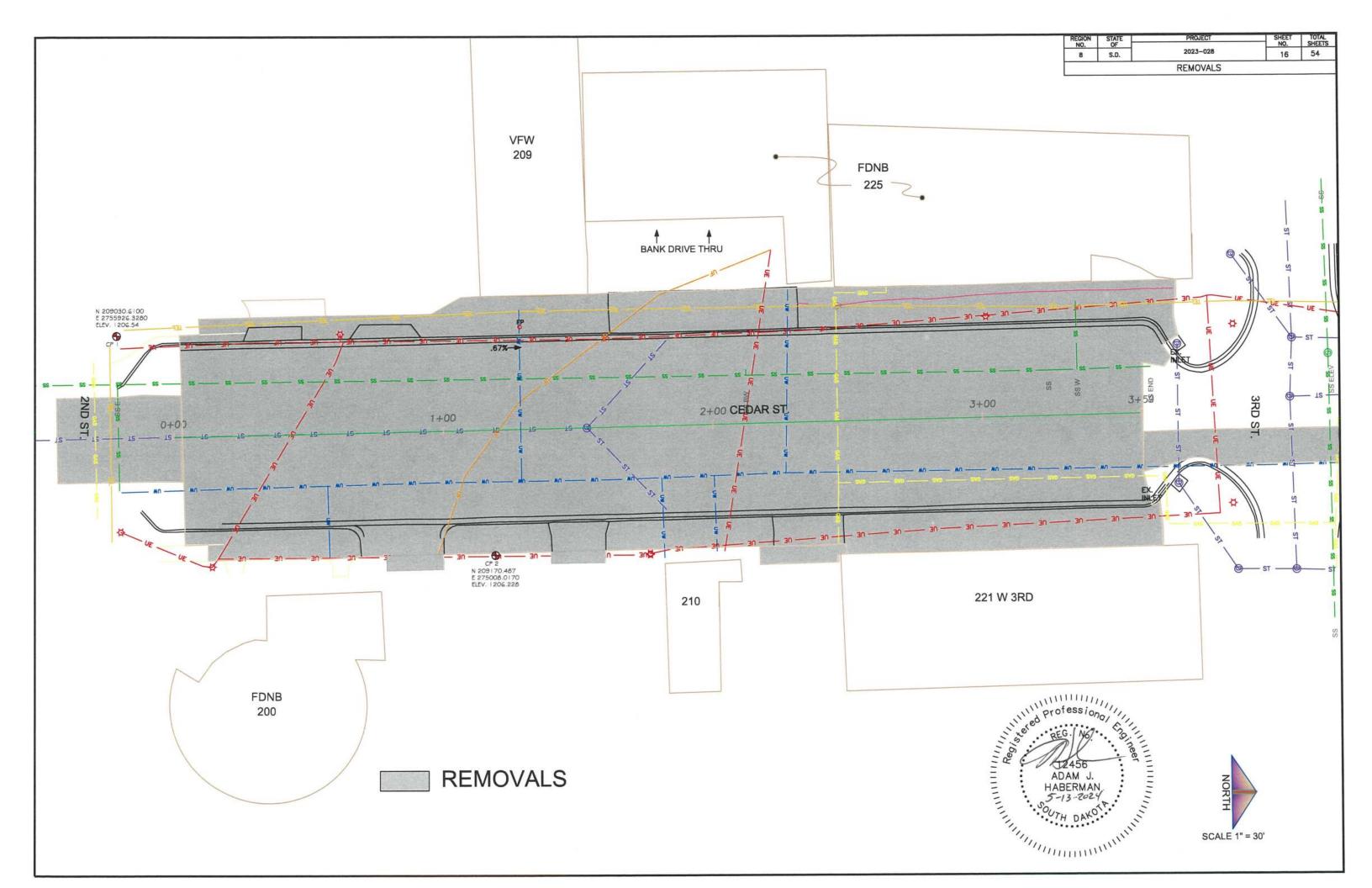
### NOTE:

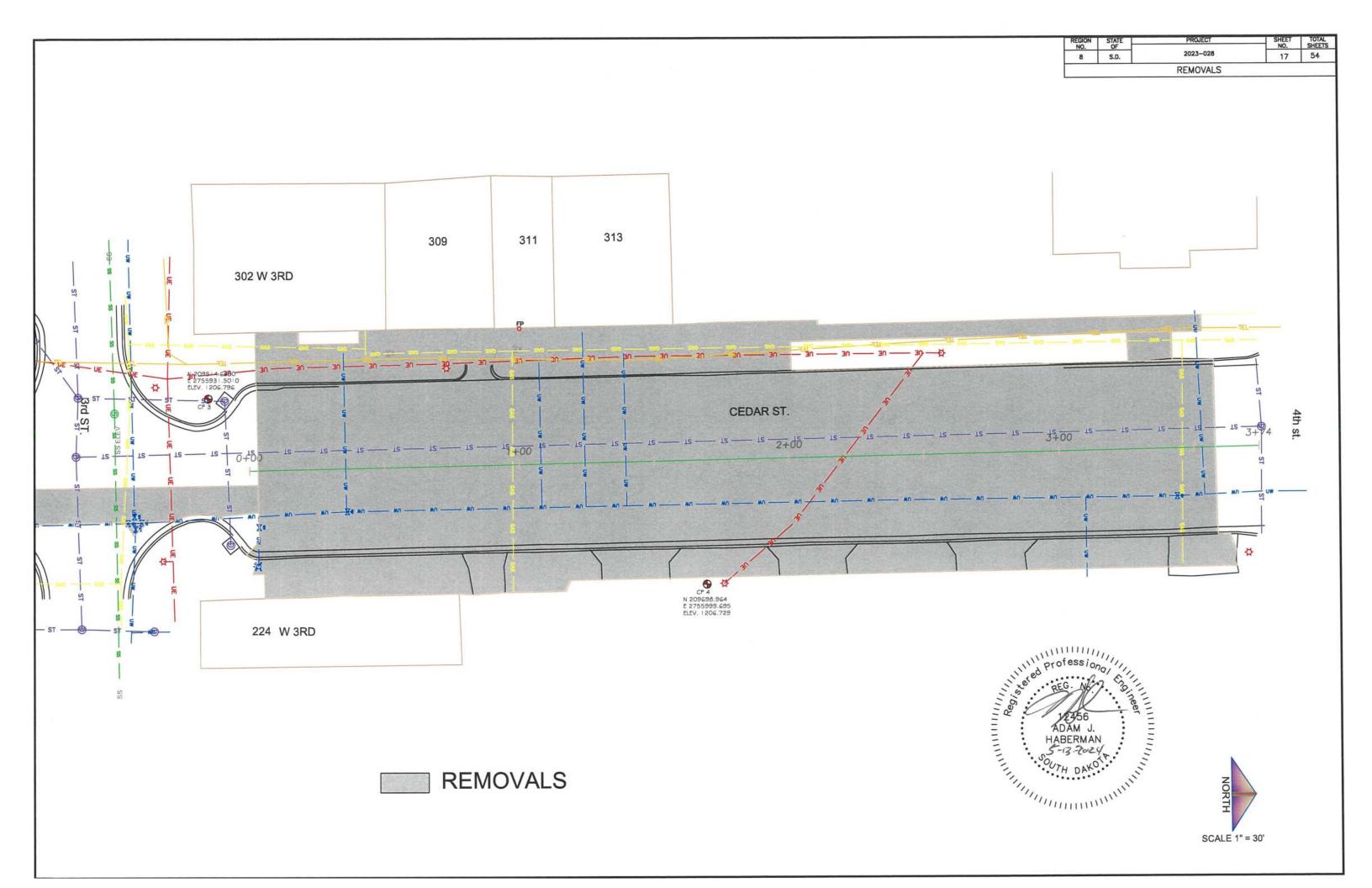
ALL EROSION CONTROL ITEMS SHALL BE MAINTAINED DAILY AND BE KEPT IN FULL FUNCTIONAL CONDITION TO MINIMIZE AND CONTROL SOIL RUN OFF THAT COULD OCCUR DURING THE PROJECT CONSTRUCTION. EROSION CONTROL ITEMS SHALL BE KEPT IN PLACE UNTIL PROJECT COMPLETION.

REGION NO.	OF	PROJECT	SHEET NO.	TOTAL
8	S.D.	2023-028	15	54
		EROSION CONTROL		

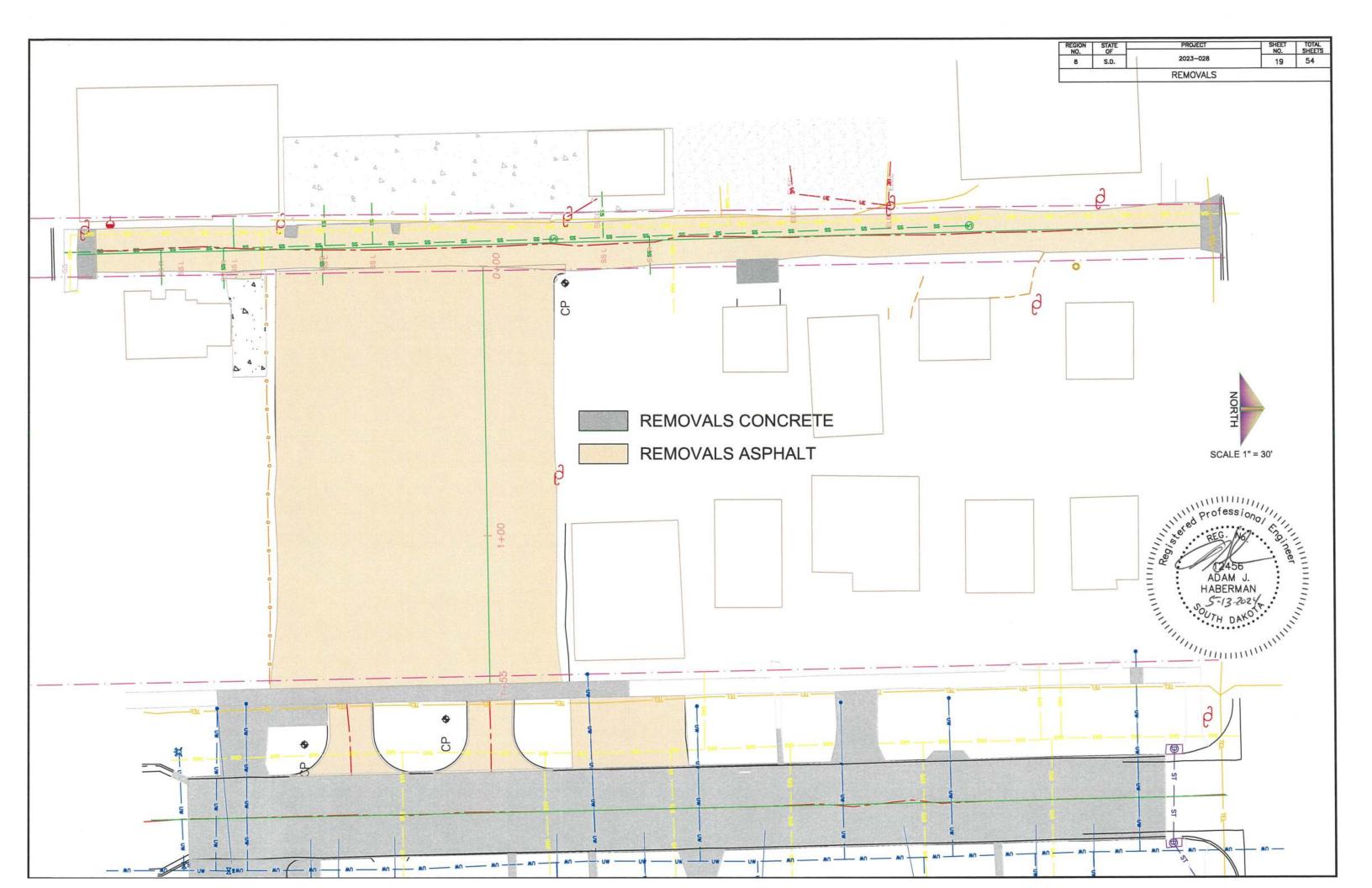
-2 USED AT 4TH AND CEDAR INTERSECTION -2 USED AT NORTH END OF PROJECT 5TH AND CEDAR

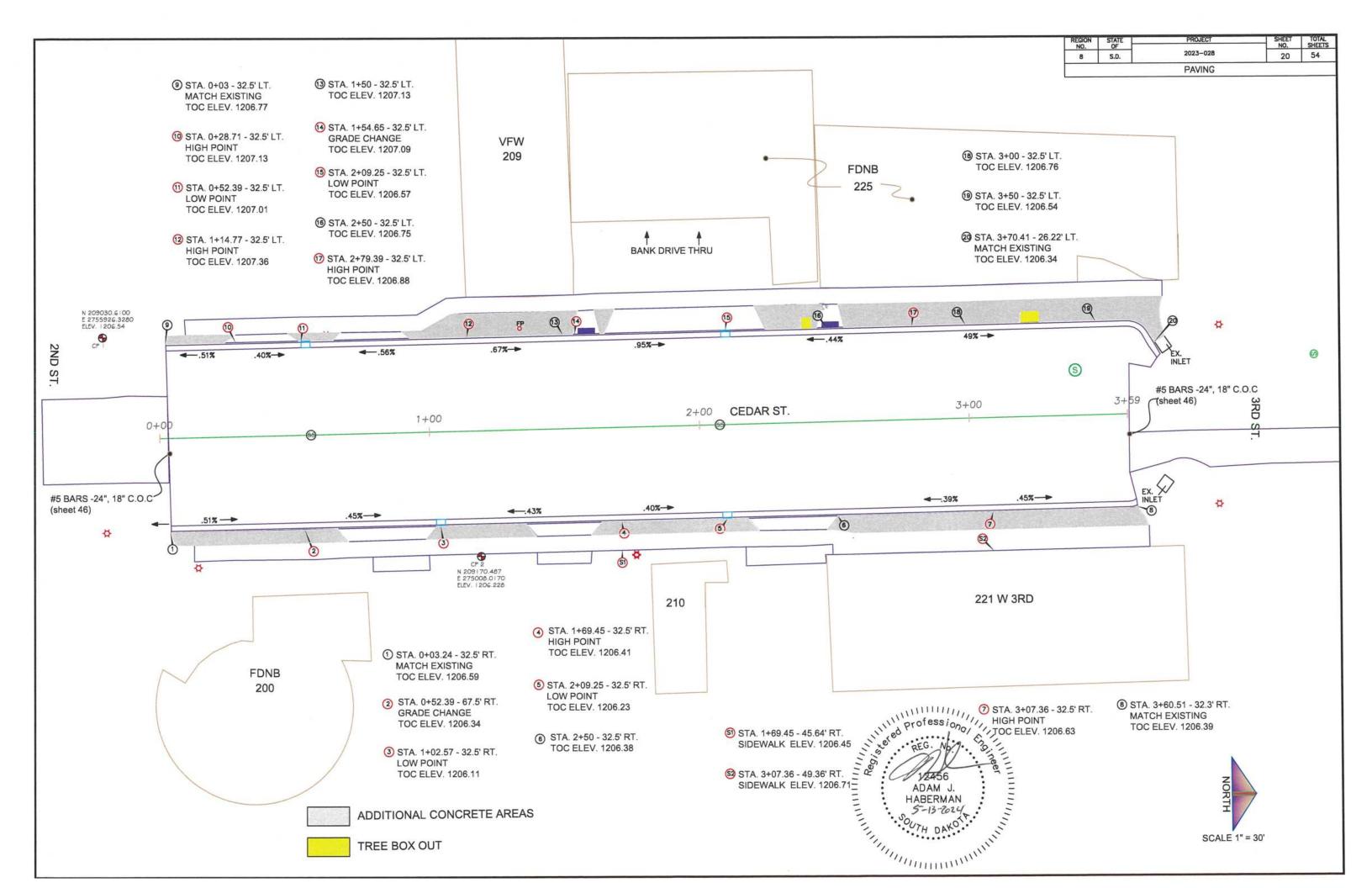




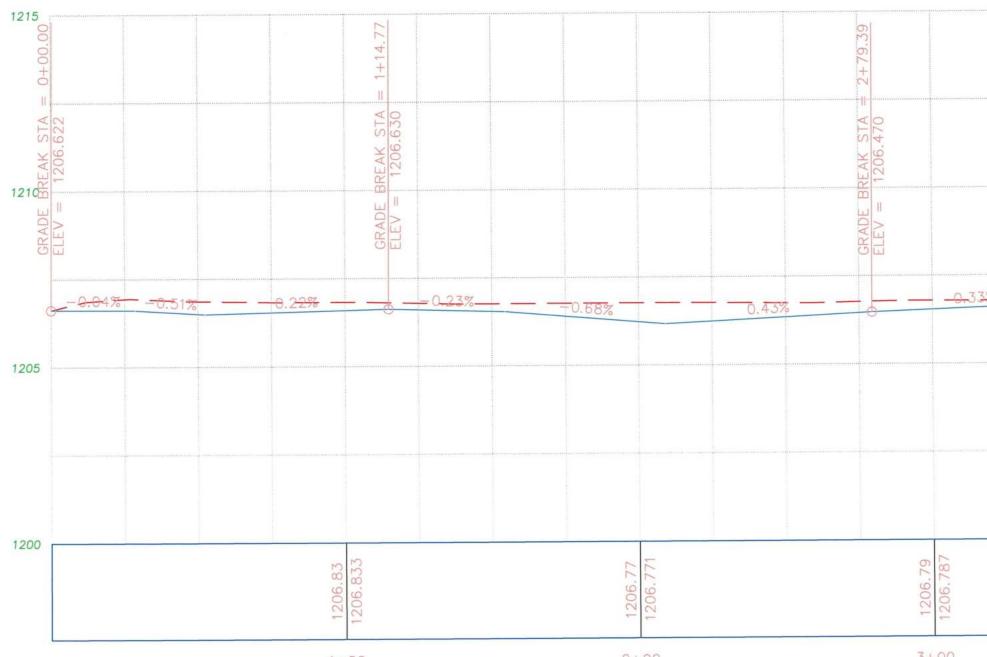








CEDAR ST 2ND TO 3RD

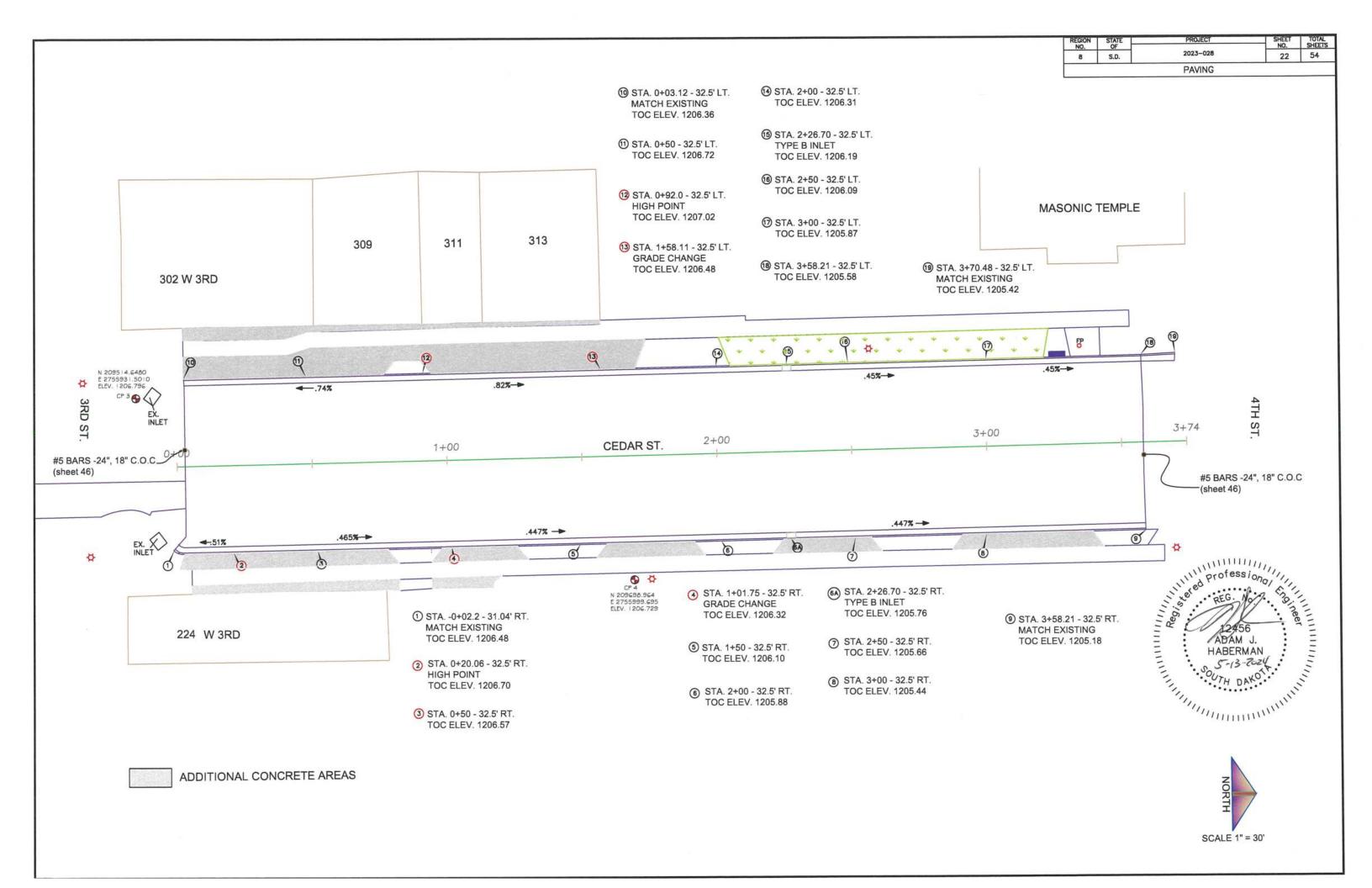


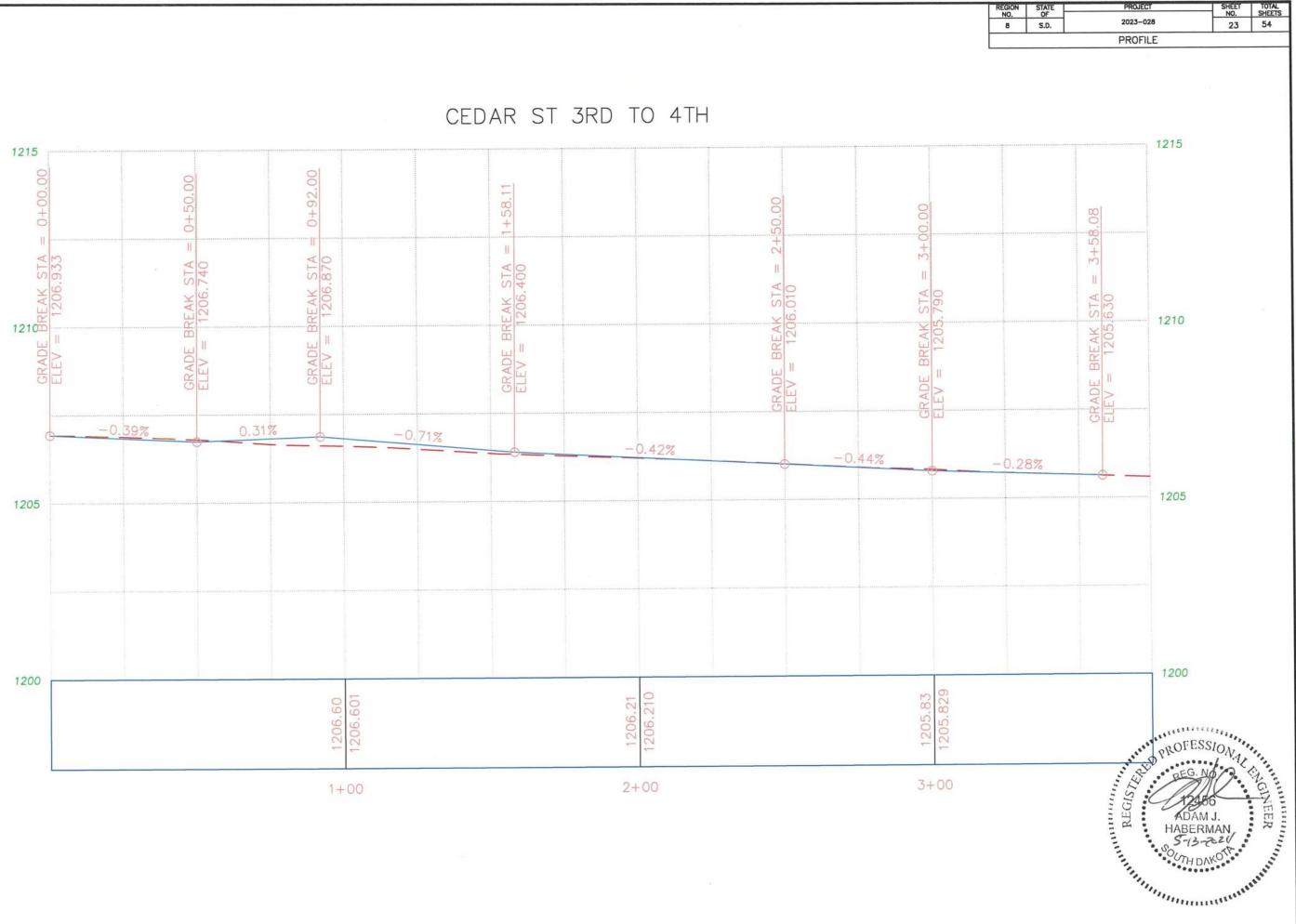
1+00

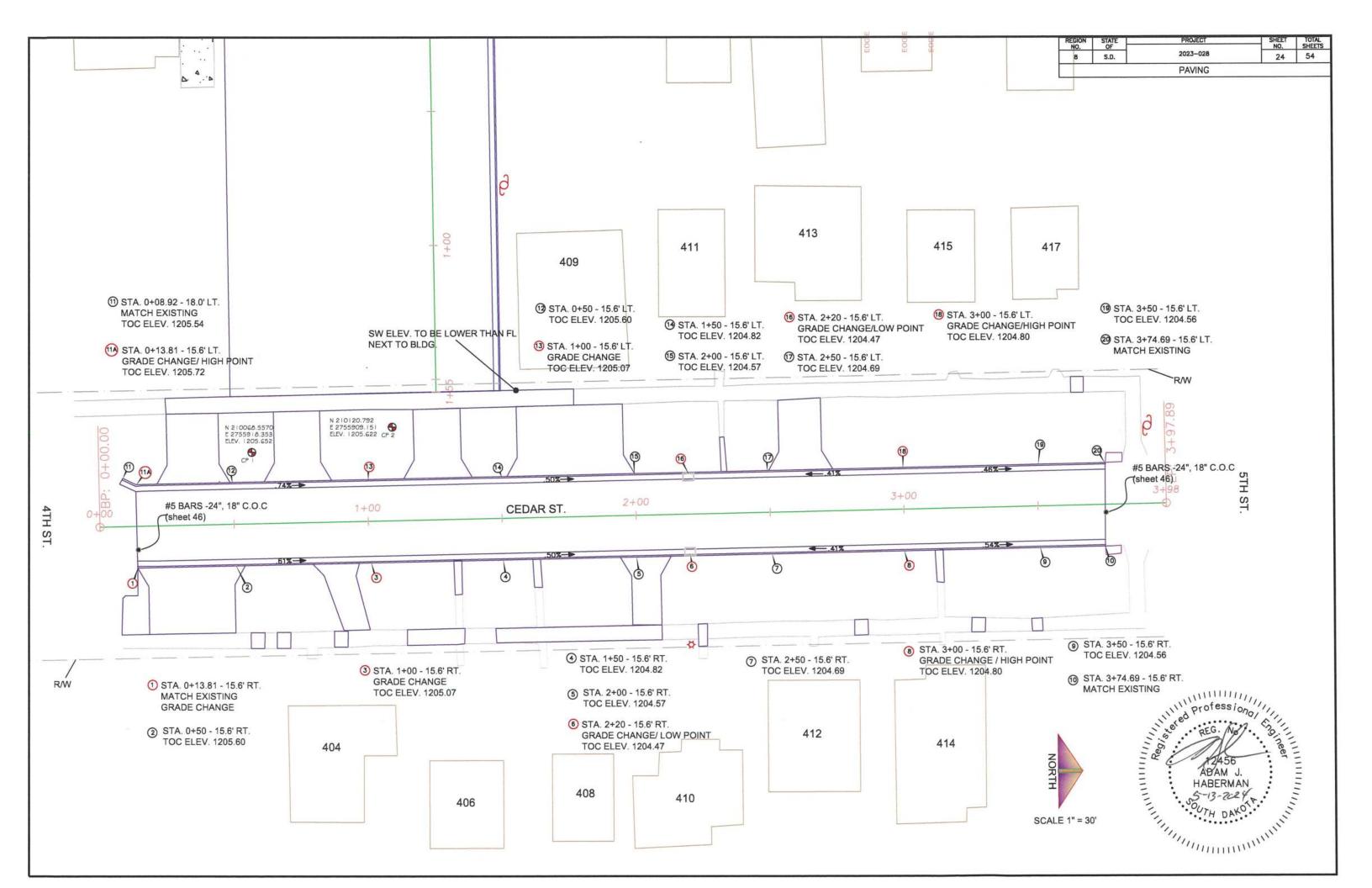
2+00

3+00

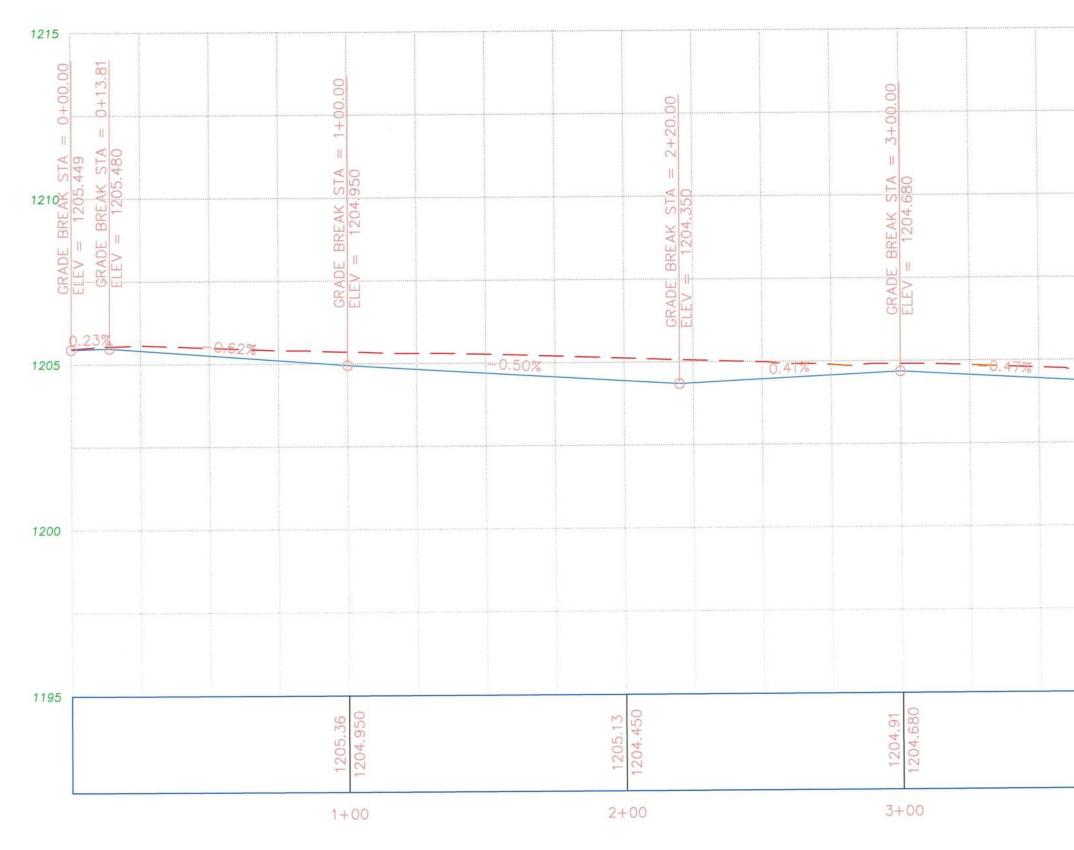
	REGION NO.	STATE	-	PROJECT	SHEET NO.	TOTAL SHEETS
	8	S.D.		2023-028	21	54
				PROFILE		
			1215			
	3+50.00					
	- 50					
	ATS ADD	00/				
	BREAK STA	00.				
	REA	12				
		1	1210			
	GRADE 1	>				
	GR					
			1205			
<u></u>						
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				ADAM J.	6 8 9 0	
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				ADAM J. HABERMAN SOCTHDAKO	111100	AN NEER NO
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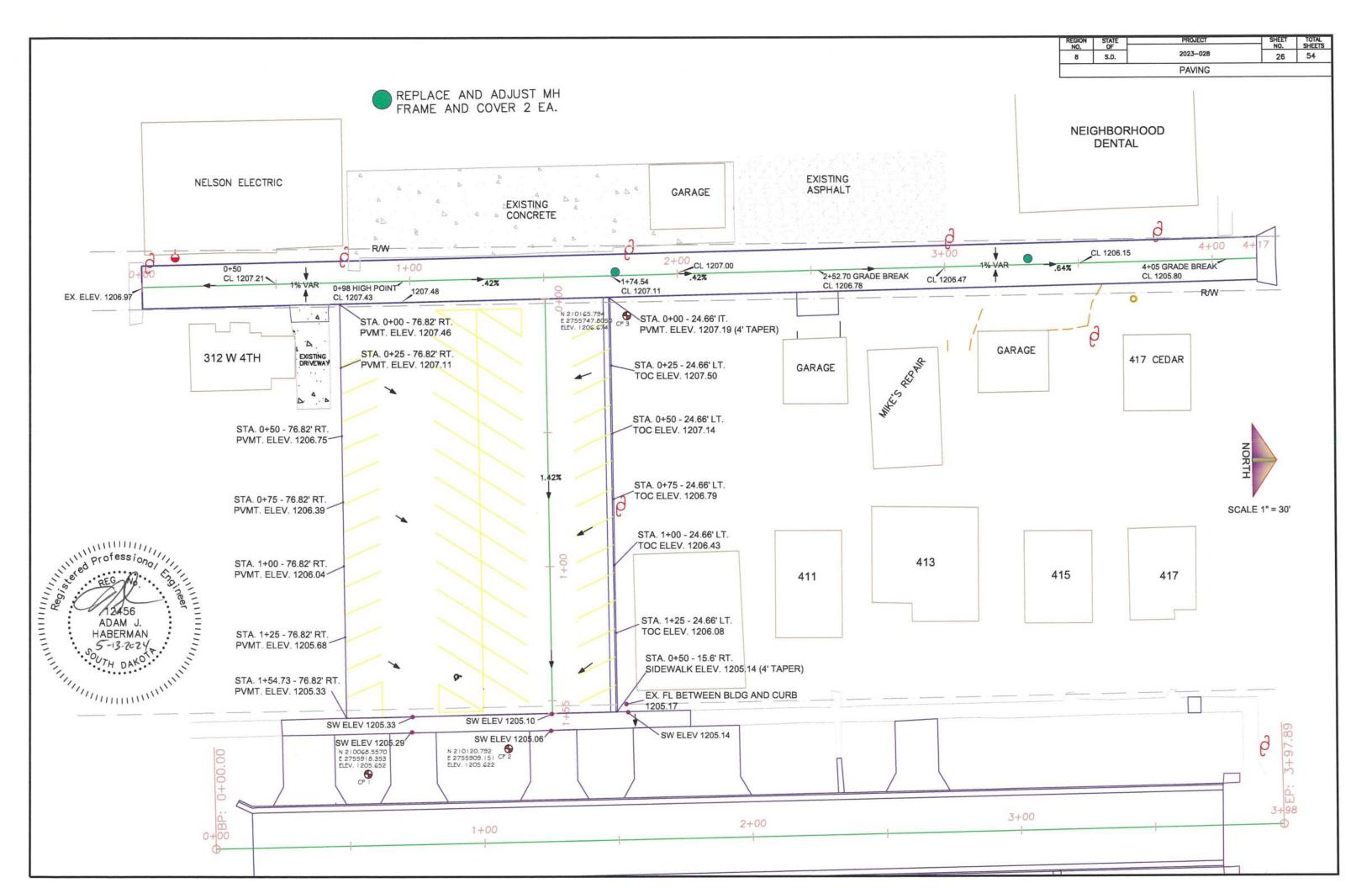


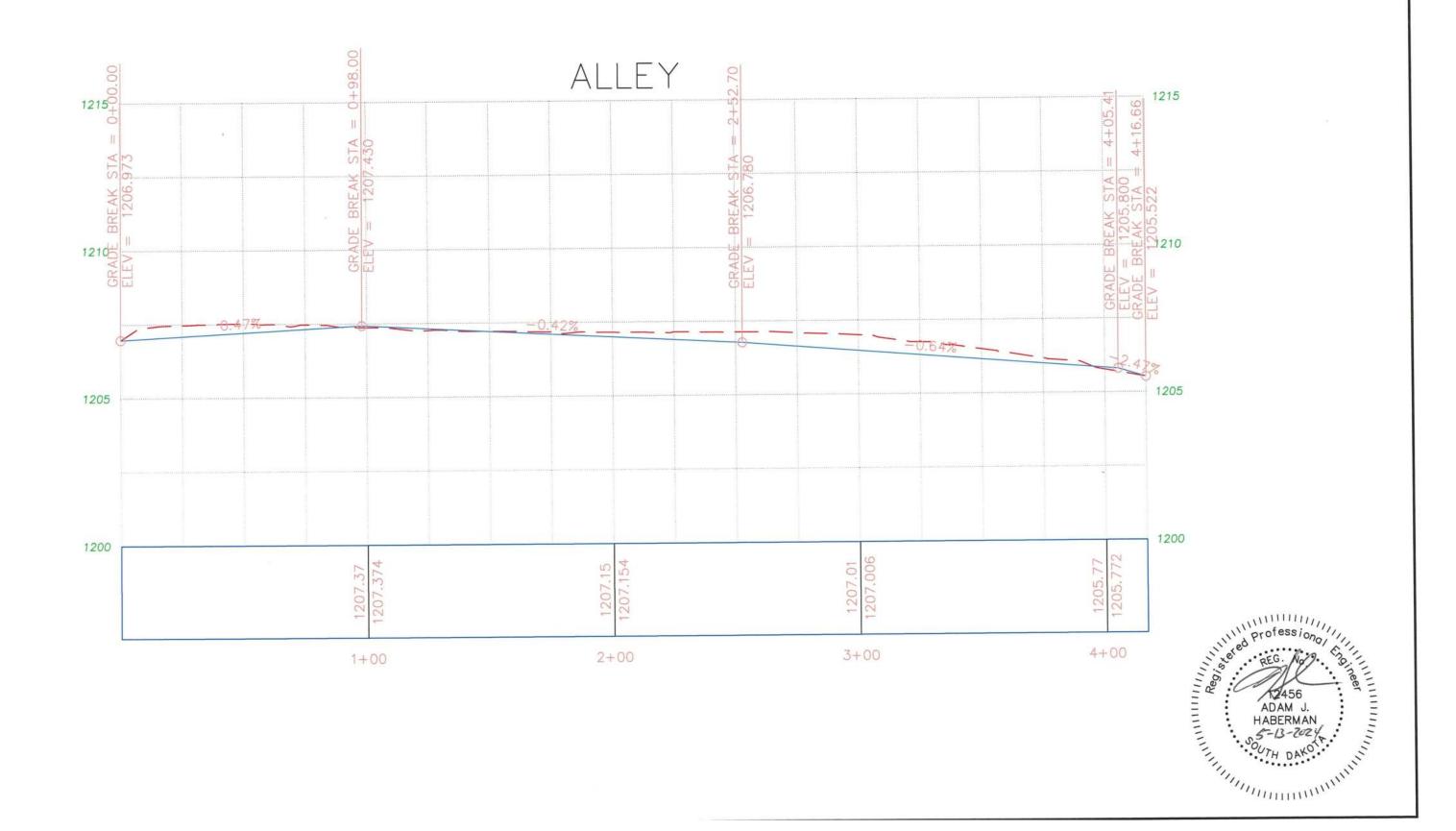


CEDAR ST 4th to 5th.

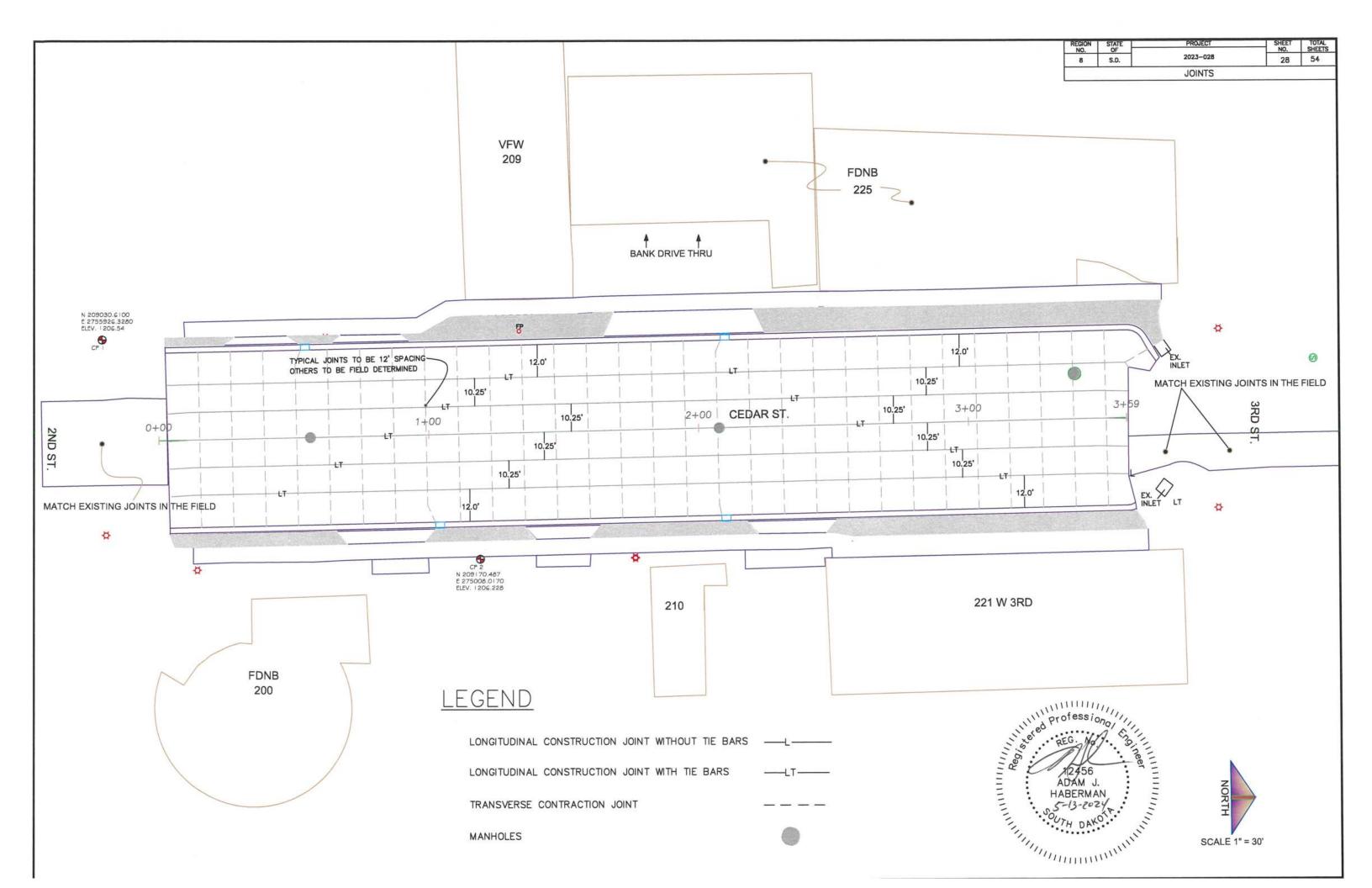


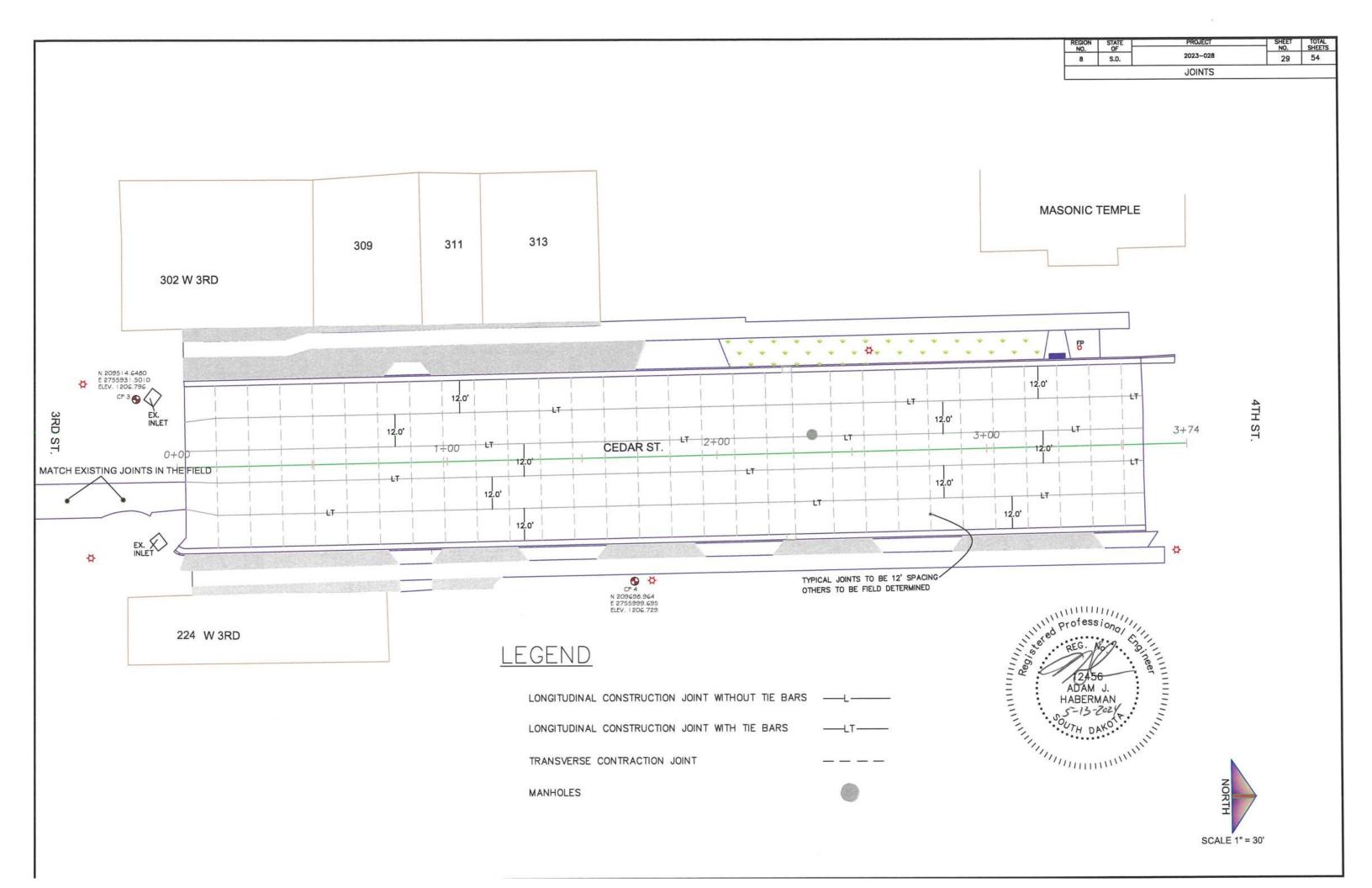


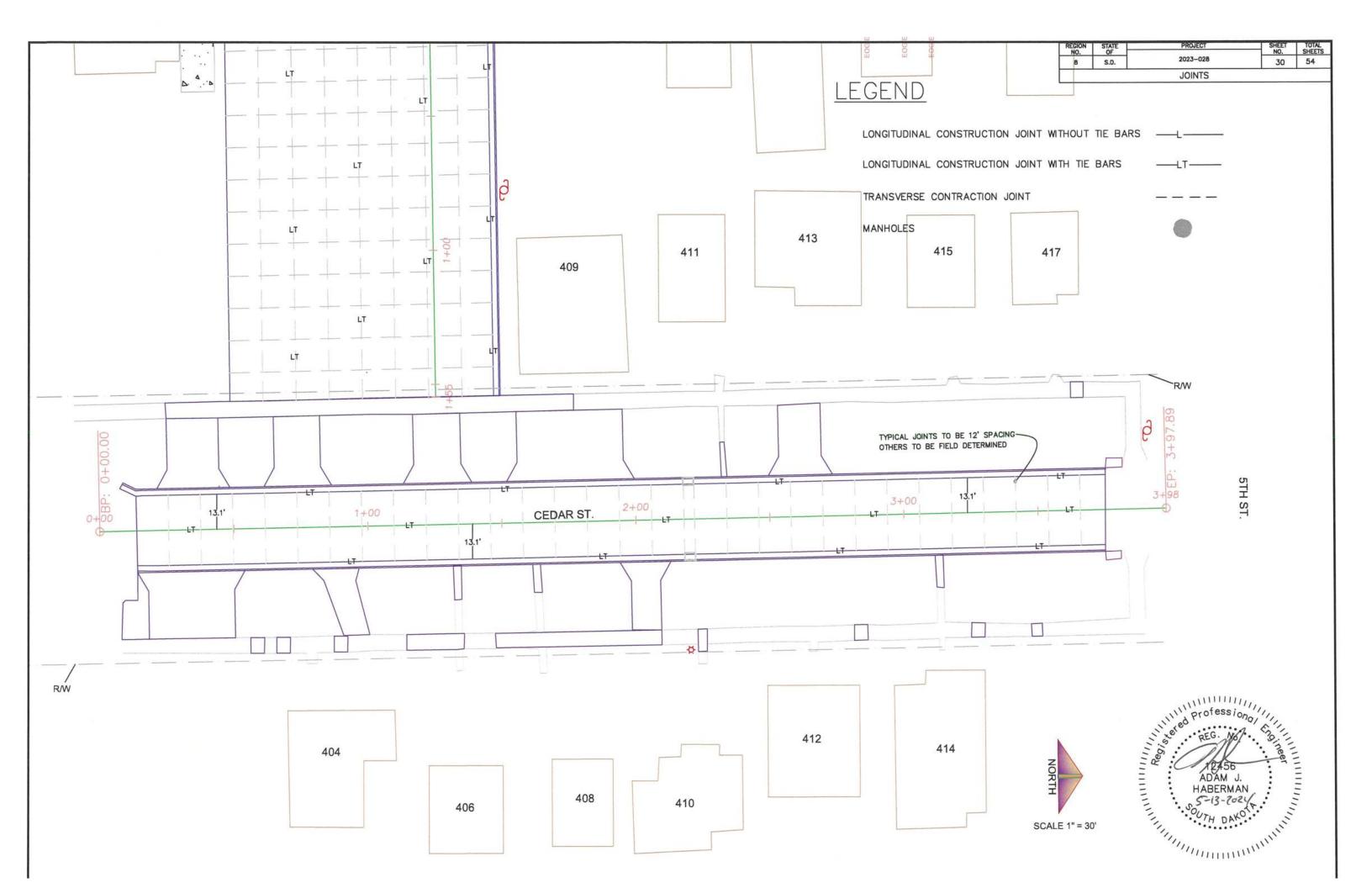


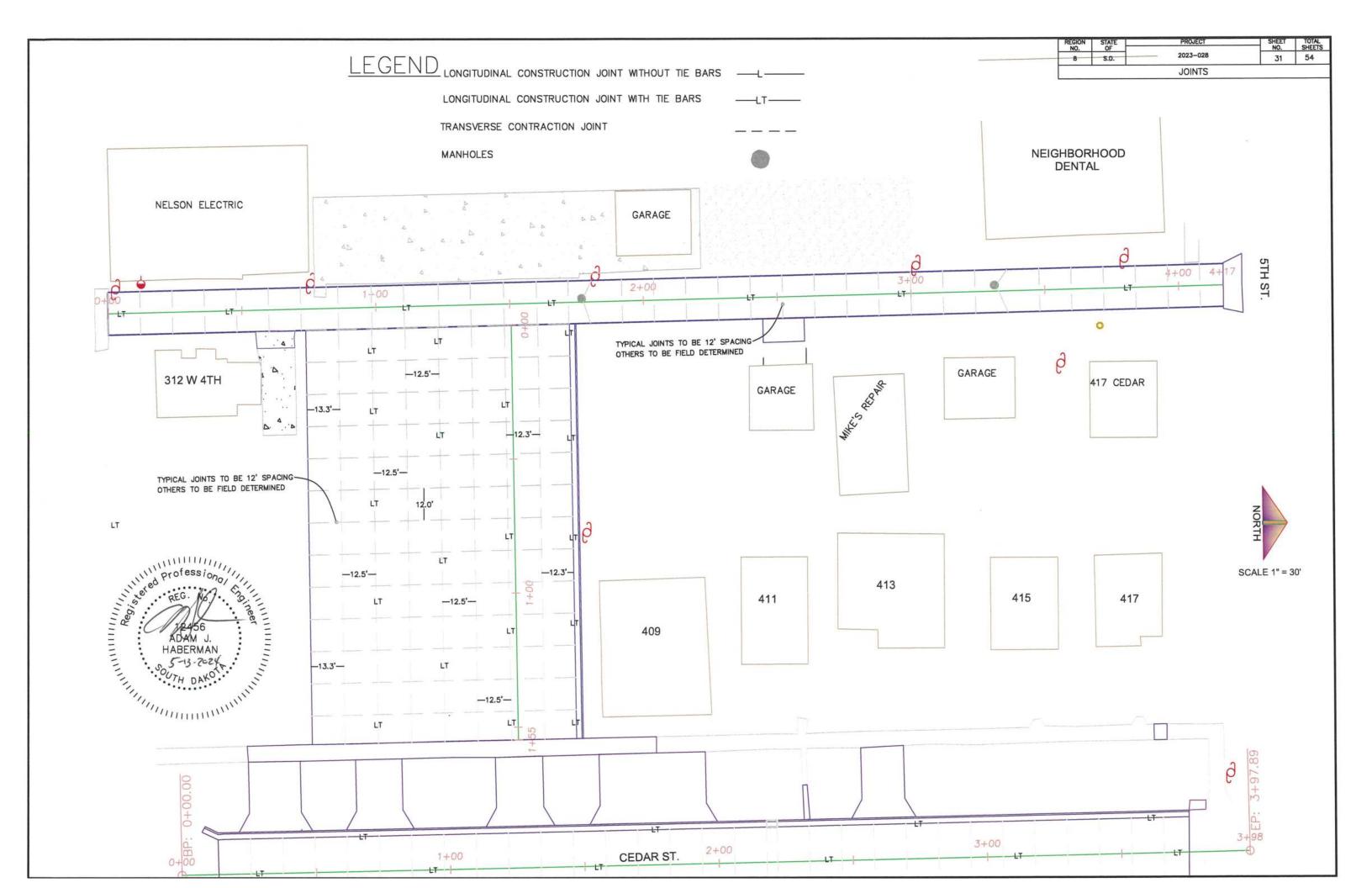


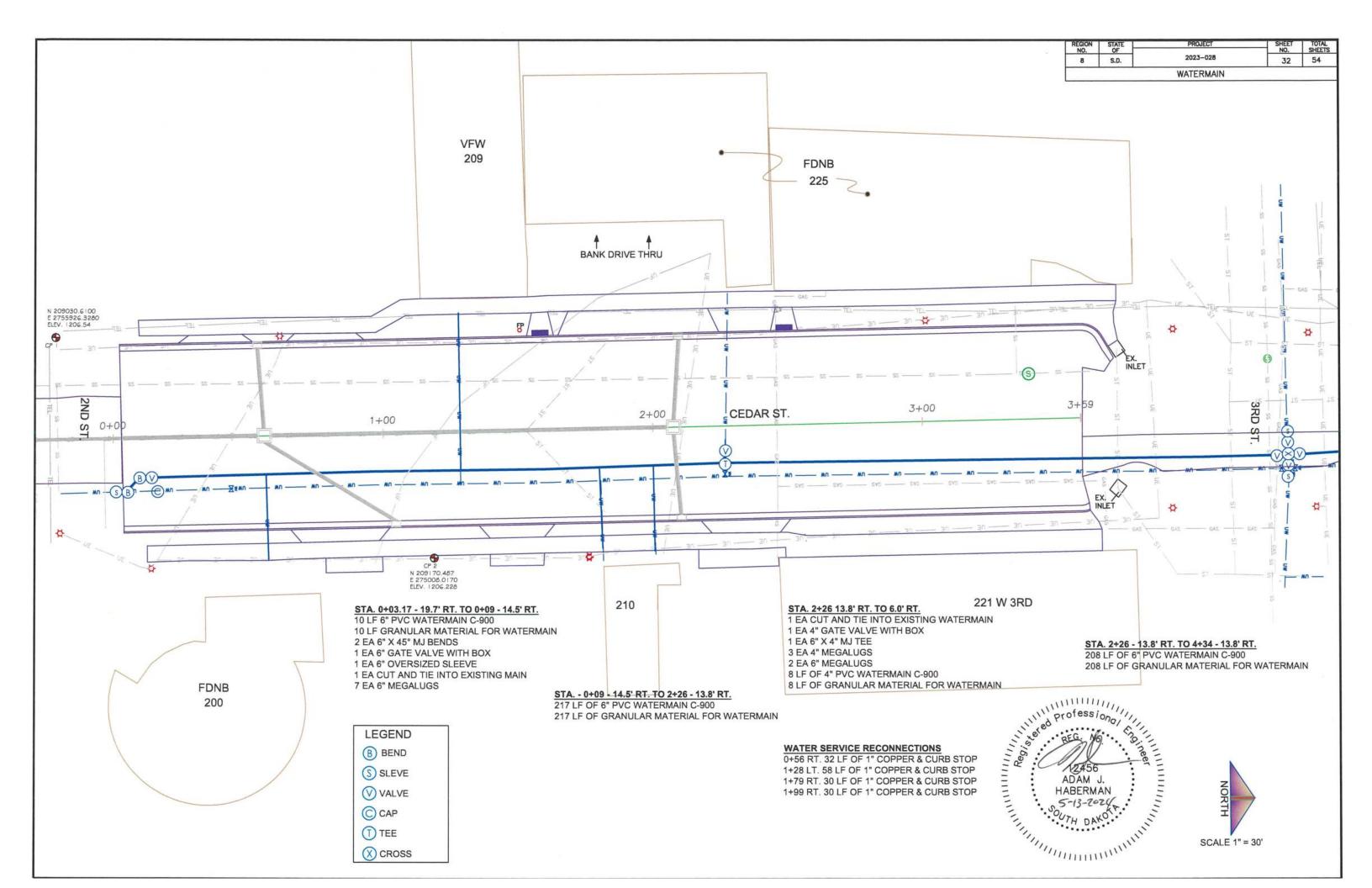
REGION NO.	OF	PROJECT	SHEET NO.	TOTAL
8	S.D.	2023-028	27	54
		ALLEY PROFILE		

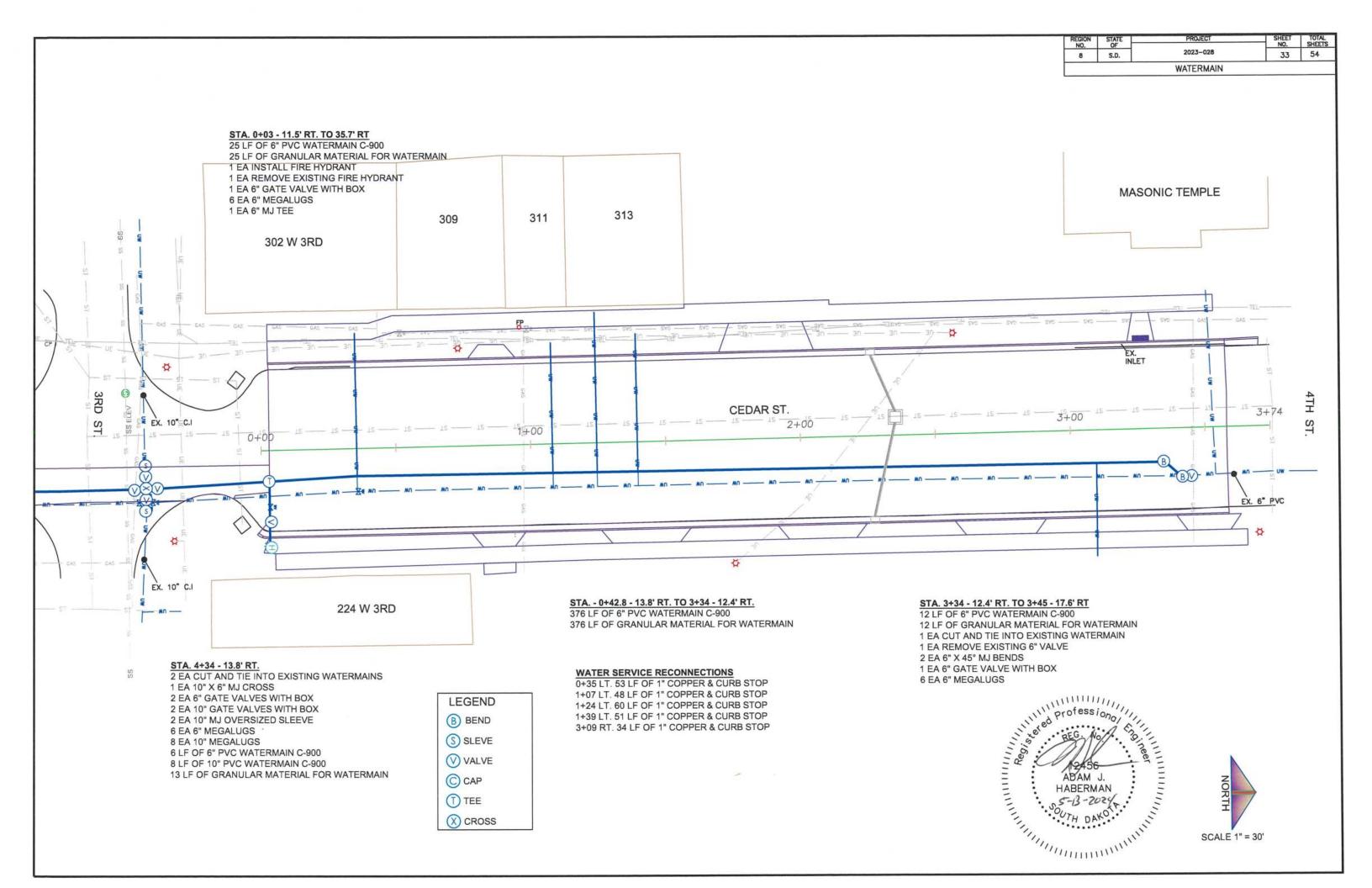


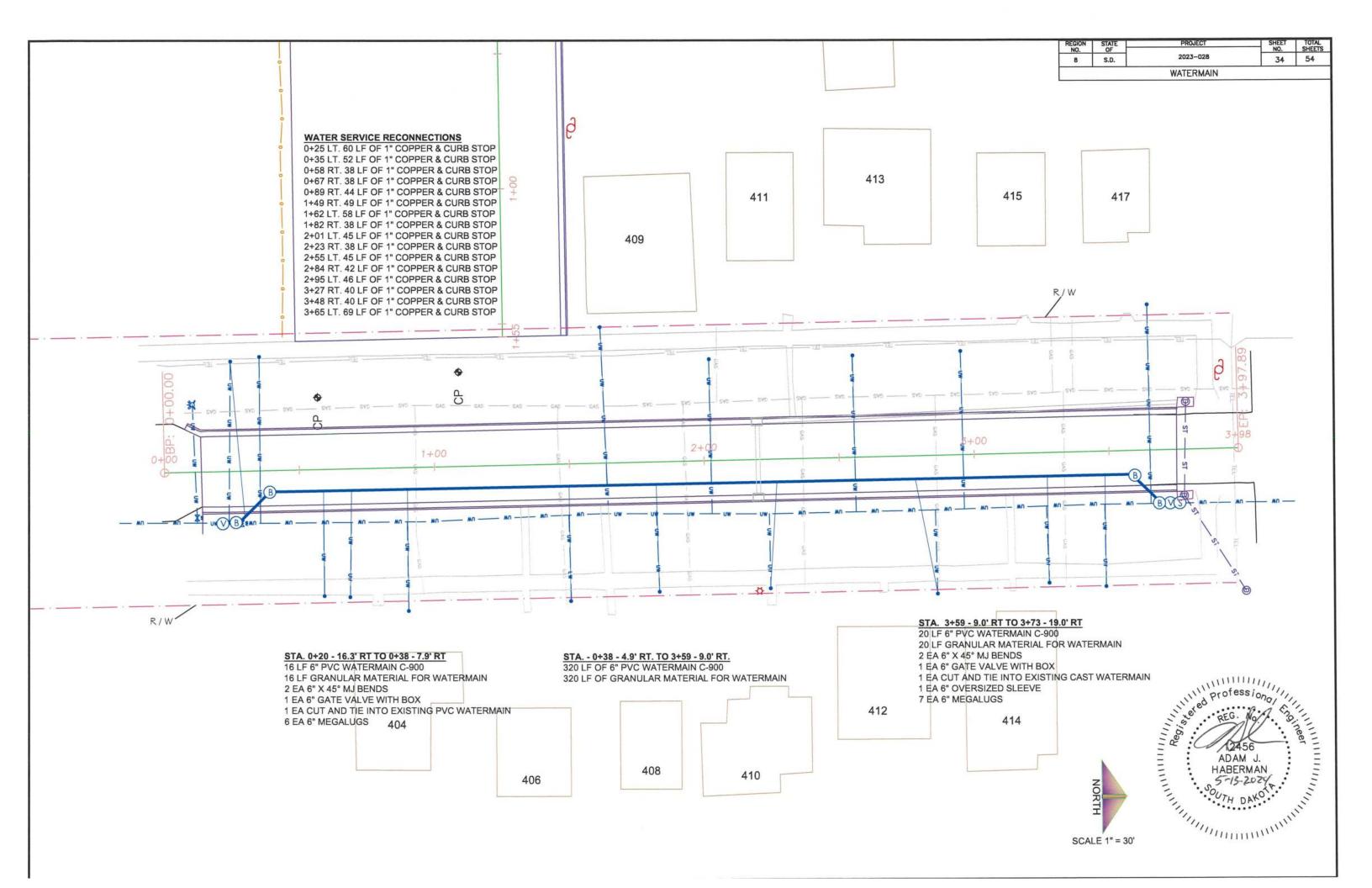


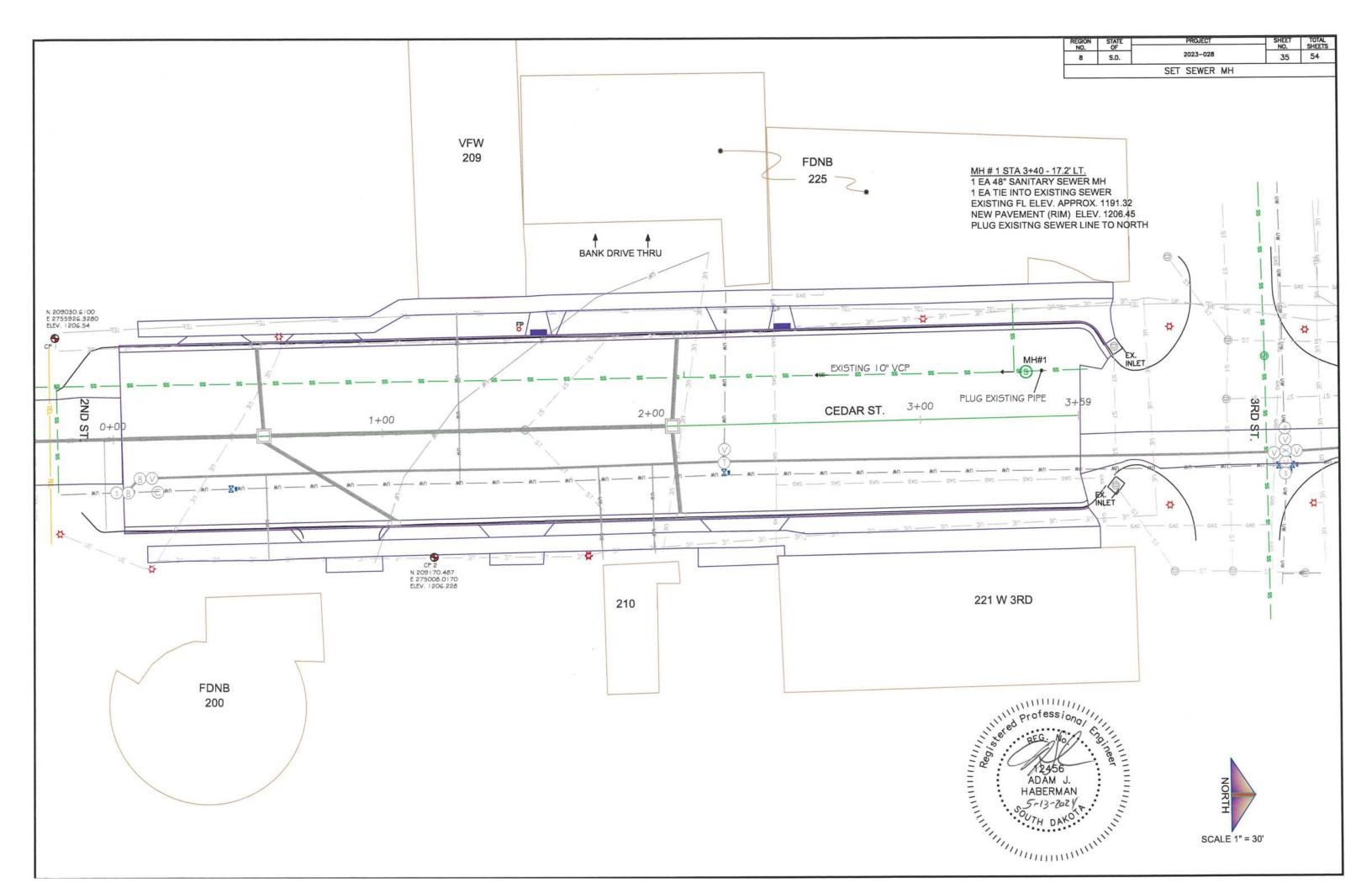


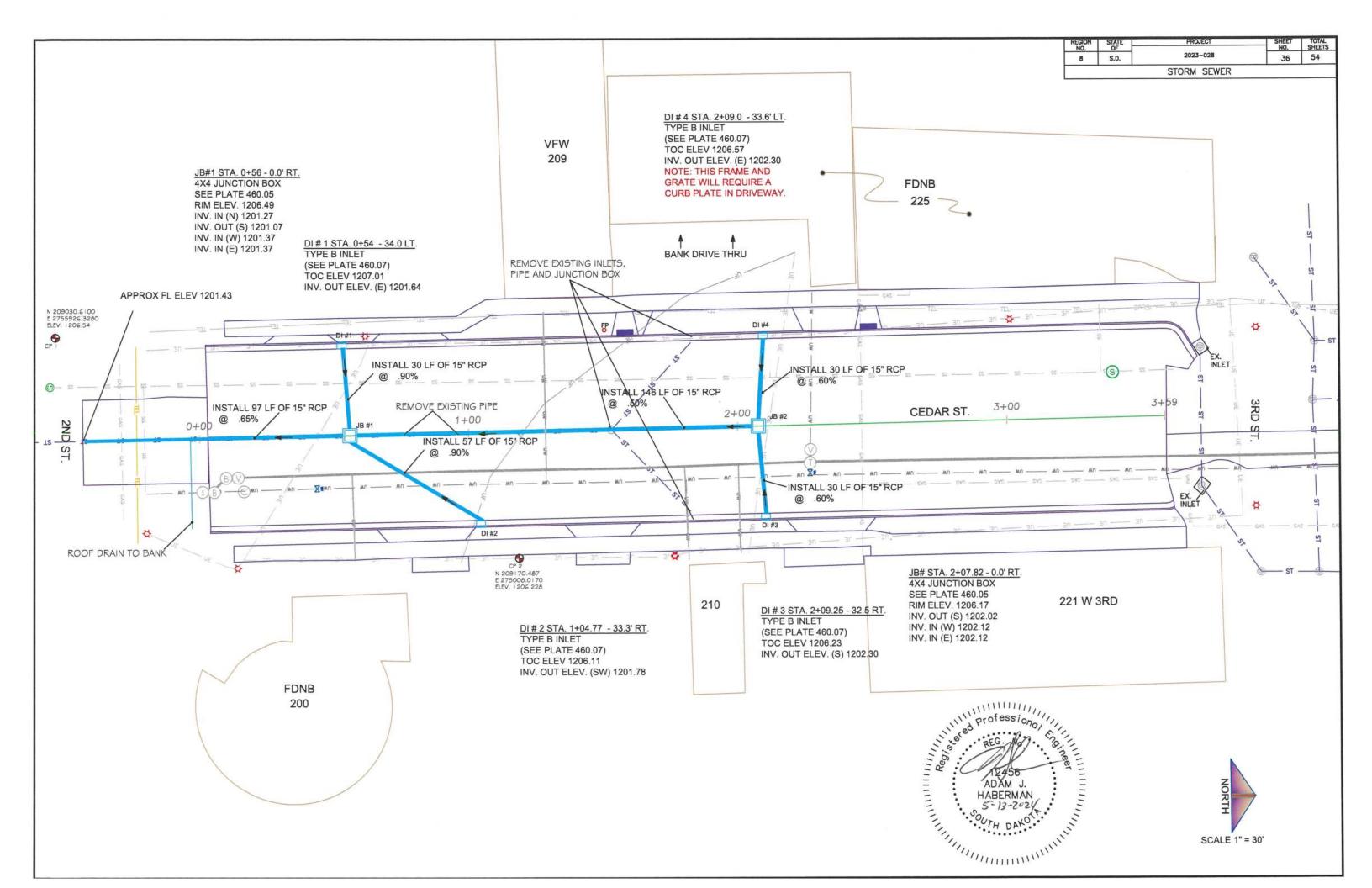




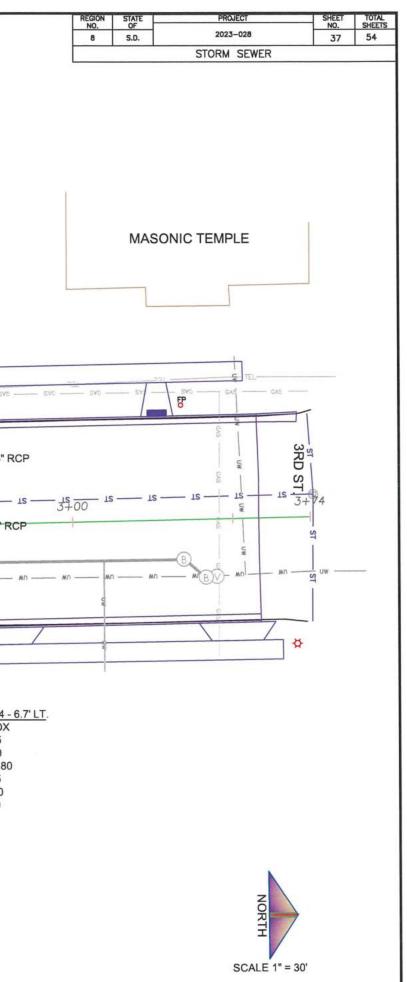


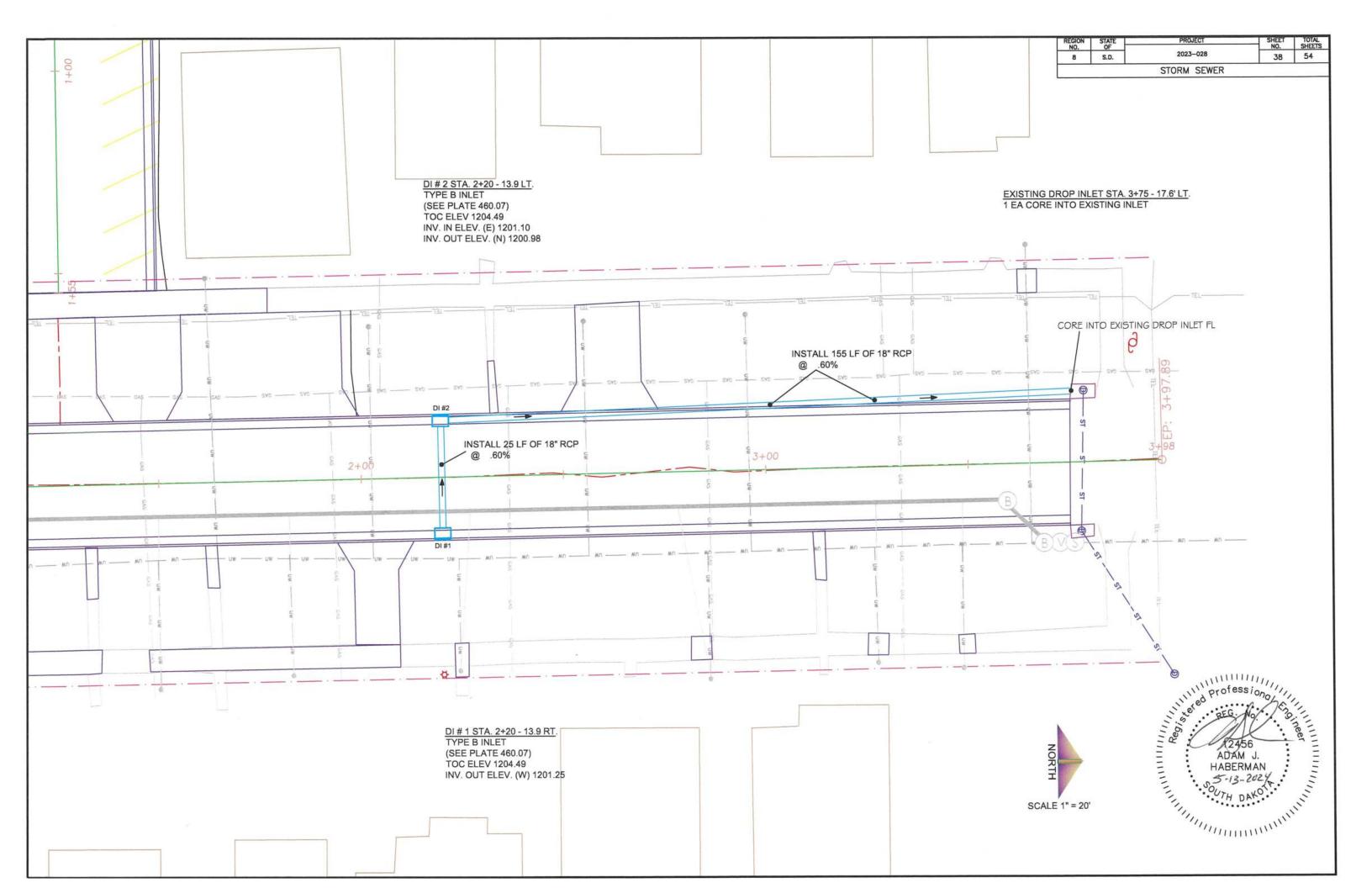




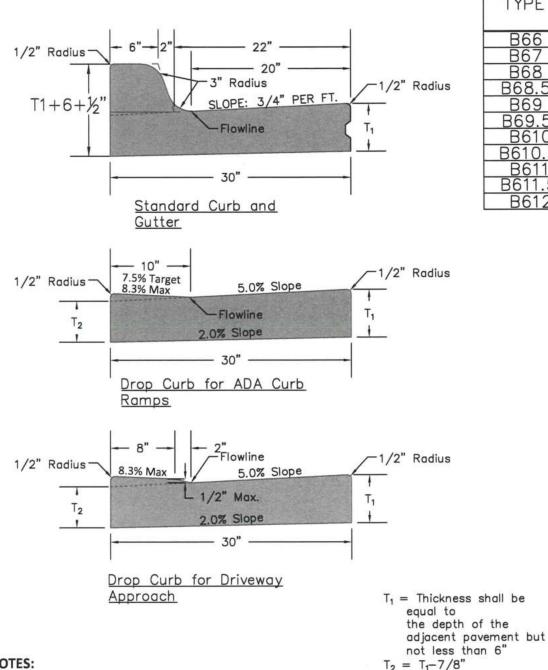


DI # 1 STA. 2+26.70 - 32.5 LT. 313 311 309 TYPE B INLET (SEE PLATE 460.07) TOC ELEV 1206.19 302 W 3RD INV. OUT ELEV. (E) 1201.70 2 4 DI #1 UE -\$ 5 N 2095 74.6480 E 2755931.5010 ELEV. 1206.796 CP 3 1 12 2ND-STSI 4 CEDAR ST INSTALL 24 LF OF 15" RCP @ 2.5% 0 JB #3 5 15 - 15 -2+00 - 1S --- 1S - 19 +00 - 1S -15 TS TZ 15 0+81 15 INSTALL 35 LF OF 15" RCP @ 2.5% N  $\odot$ 5 0 17 5 DI #2 CP 4 N 209698.964 E 2755999.695 ELEV. 1206.729 JB #3 STA. 2+33.54 - 6.7' LT. DI # 2 STA. 2+26.70 - 32.5' RT. TYPE B INLET **4X4 JUNCTION BOX** SI (SEE PLATE 460.07) SEE PLATE 460.05 224 W 3RD TOC ELEV 1205.76 RIM ELEV. 1206.00 INV. OUT ELEV. (W) 1202.00 INV. OUT (S) 1198.80 INV. IN (N) 1198.85 INV. IN (W) 1201.10 INV. IN (E) 1201.10 ADAM J. HABERMAN





# 30" CONCRETE CURB AND GUTTER N.T.S



TYPE	T1 INCHES	PER LIN. FT.
B66	6"	0.055
B67	7"	0.063
B68	8"	0.071
B68.5	8.5"	0.074
B69	9"	0.078
B69.5	9.5"	0.082
B610	10"	0.086
B610.5	10.5"	0.090
B611	11"	0.094
B611.5	11.5"	0.098
B612	12.0"	0.102

\_\_\_\_\_

1/2" Preformed Expansion Joint Fillers shall be placed, Tranversely in the Curb & Gutter as follows:

- which is parallel to the project centerline.

- 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.

#### **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 plate 651.02 for additional curb transition information.

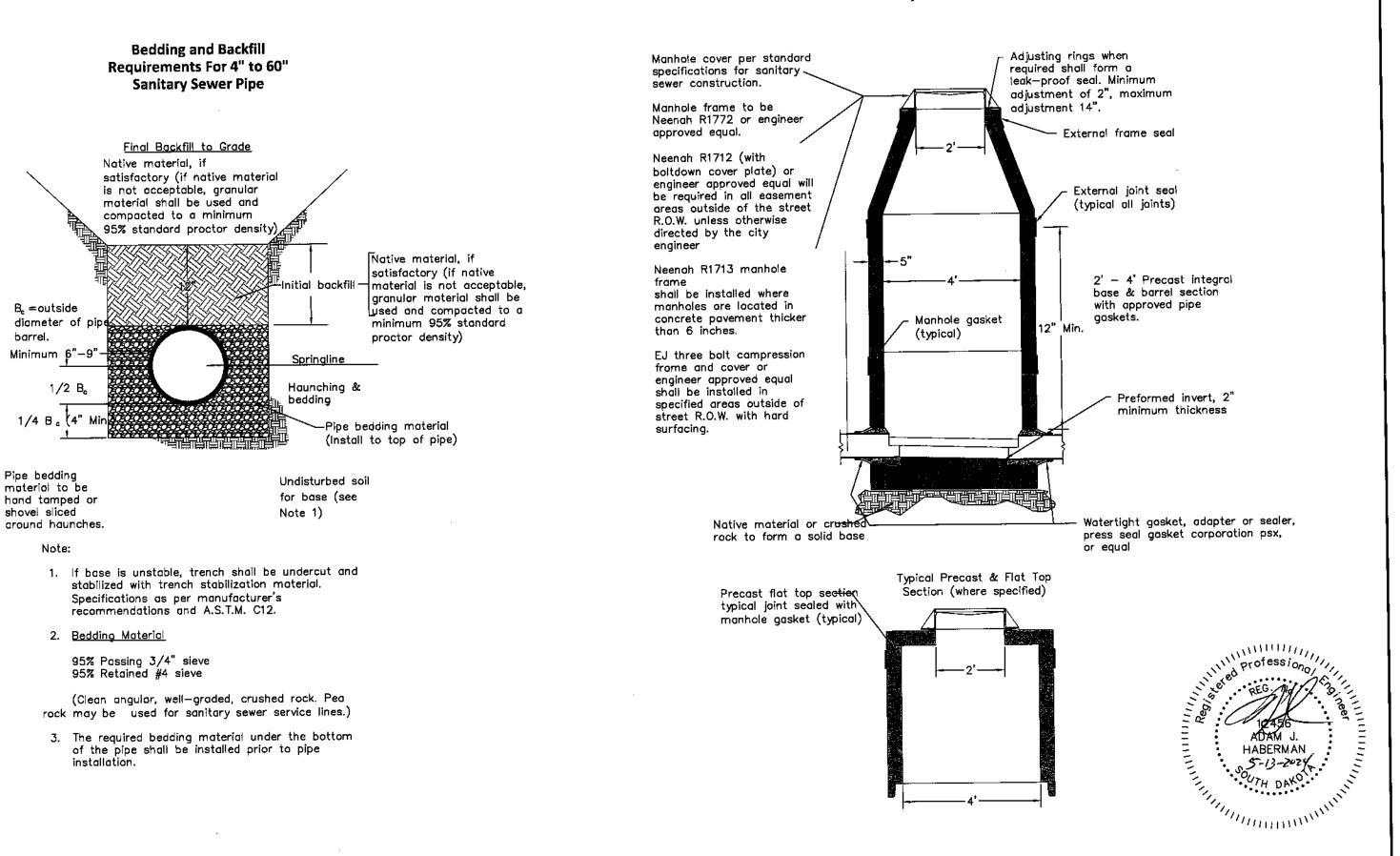
 PROJECT	SHEET NO.	TOTAL SHEETS
2023-028	39	54
DETAILS		-14.1

(1) At each junction of Radius return Curb & Gutter and the Curb & Gutter

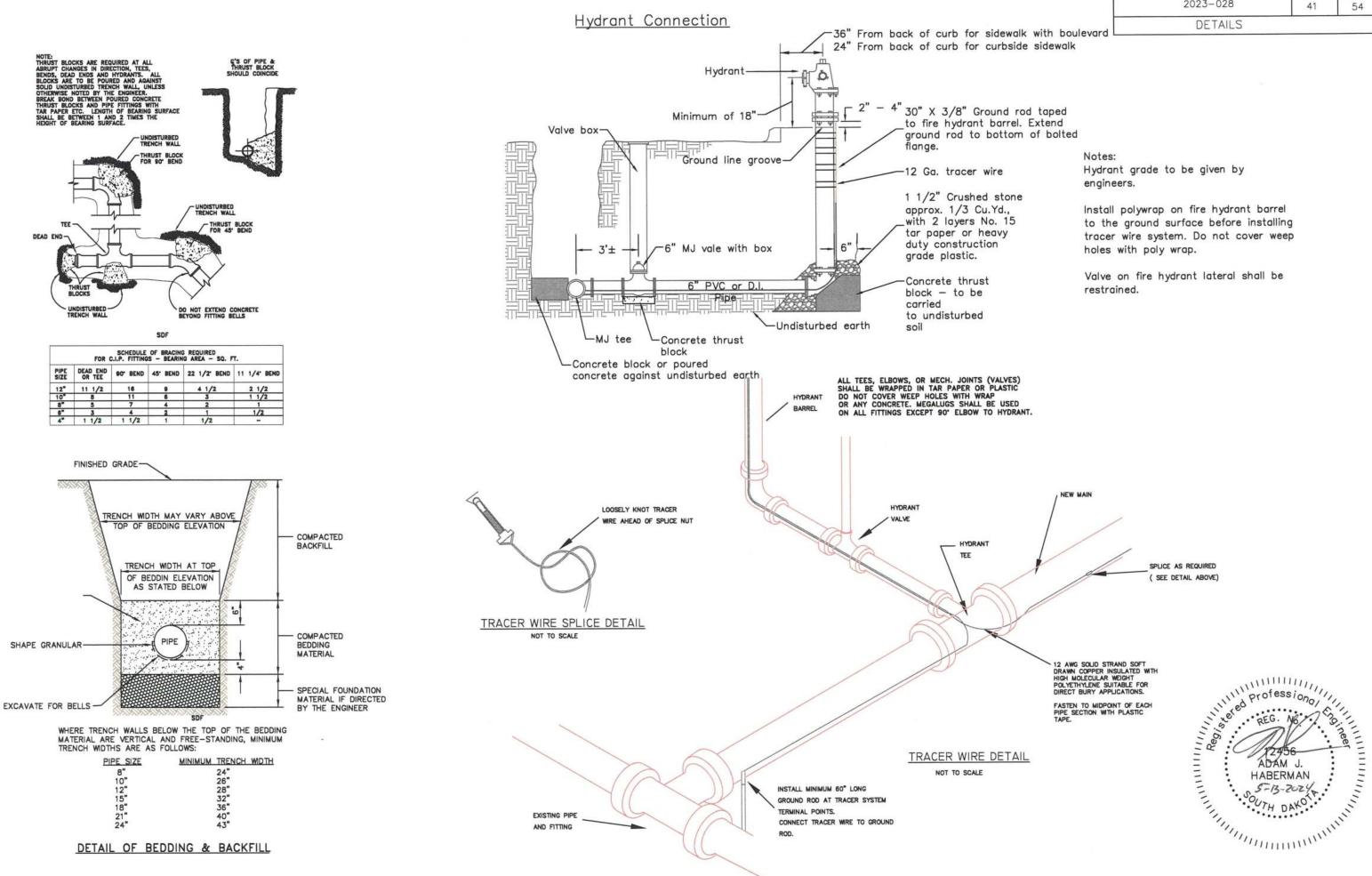
(2) At each junction with existing Concrete Curb or Concrete Curb & Gutter (3) At each junction with existing sidewalk, to the depth of the sidewalk. (4) At a maximum of 195 L.F. appart, measured along the face of the



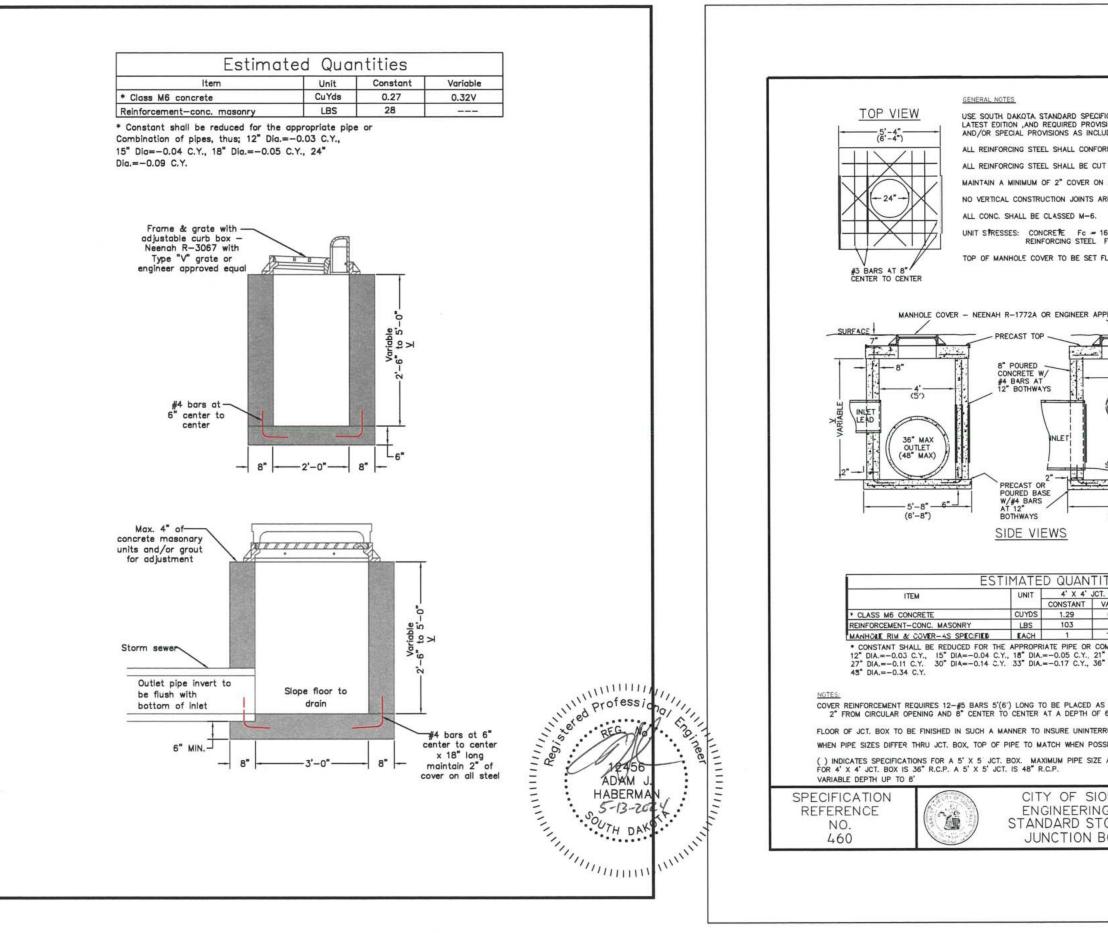
### Sanitary Sewer Manhole



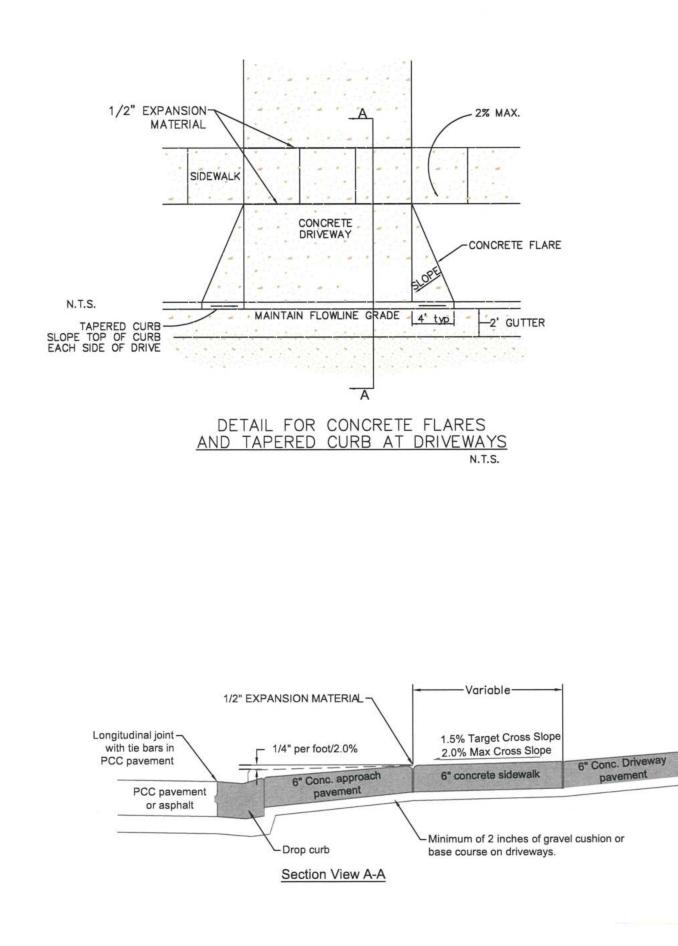
	PROJECT		SHEET NO.	TOTAL SHEETS
	2023-028	ľ	40	54
	DETAILS			
_				



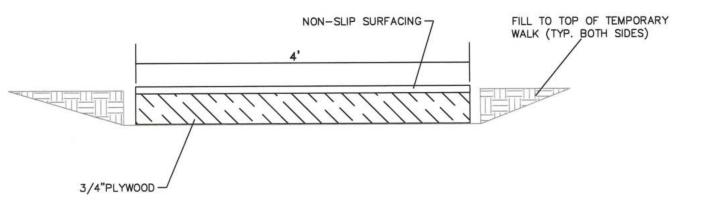
	PROJECT		SHEET	TOTAL
	2023-028	-	<u>NO.</u> 41	SHEETS 54
	DETAILS			
with bou sidewalk	levard			
SIGEWOIK				
taped				
Extend of bolted				
	Notes:			
	Hydrant grade to be given by			
	engineers.			
	Install polywrap on fire hydrant i	oarrel		
	to the ground surface before ins			
	tracer wire system. Do not cove holes with poly wrap.	weep		
	utersterister mediterist. Steensterin of tablatizerin			
	Valve on fire hydrant lateral sha restrained.	II De		
•				
, NEW	MAIN			
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	PROJECT	SHEET	TOTAL
_	2023-028	42	SHEETS
-	DETAILS	42	54
	DETAILS		
PECIFICATIONS FOR ROADS AND ROVISIONS, SUPPLEMENTAL SPI INCLUDED IN THE PROPOSAL	D BRIDGES, ECIFICATIONS		
ONFORM TO A.S.T.M. A615, GR/	ADE 60.		
E CUT AND/OR BENT IN THE F			
R ON ALL REINFORCING STEEL			
TS ARE ALLOWED. -6.			
= 16C0 P.S.I. EEL Fc = 20,000 P.S.I.			
eel fc = 20,300 p.s.i. Set flush with finished sur	FACE ELEVATION.		
R APPROVED EQUAL			
SURFAC	ε		
(5') (NLET LEAD	7		
SEE NOTE			
5'-8" (6'-8")			
VTITIES ' JCT. BOX 5' X 5 VARIABLE CONSTANT 0.46V 1.93 23V 131 1 DR COMBINATION OF PIPES, THU ., 21" DIA.=-0.07 C.Y., 24" DI ., 36" DIA.=-0.20 C.Y., 42" DI	0.56V 35V 		
ED AS SHOWN. H OF 6" W/M.N. COVER THICKN			
NTERRUPTED F_OW THRU THE POSSIBLE.	BUX.		
SIZE ALLOWED			
	REVISED: DECEMBER 1995		
SIOUX FALLS RING DIVISION STORM SEWER N BOX TYPE I	PLATE NUMBER 460.05		



## TEMPORARY BOARDWALK



GENERAL NOTES

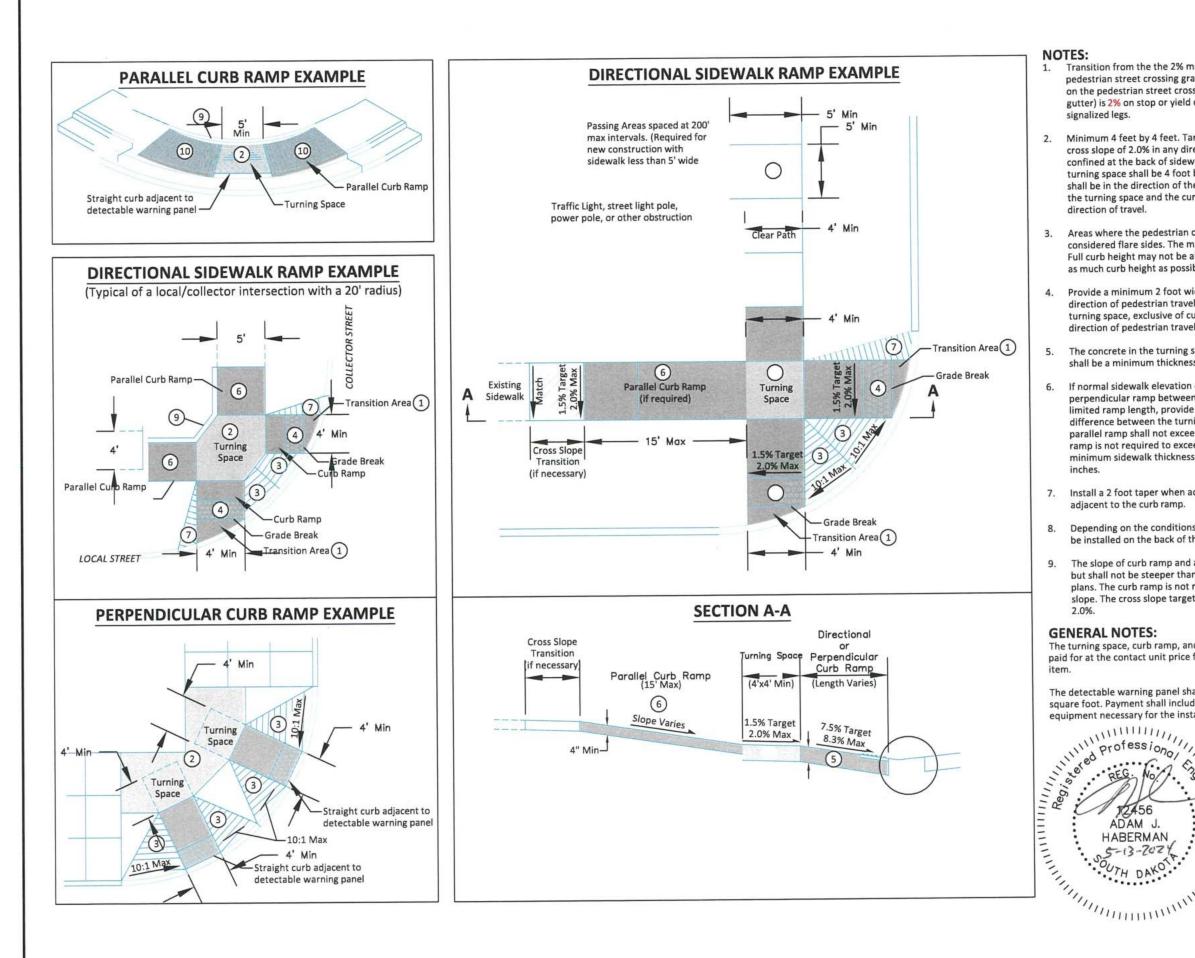
1. ALL CONNECTIONS TO 3/4" PLYWOOD TO BE MADE WITH SCREWS NO NAILS.

2. ALL SEAMS OF PLYWOOD MUST BE SECURED.

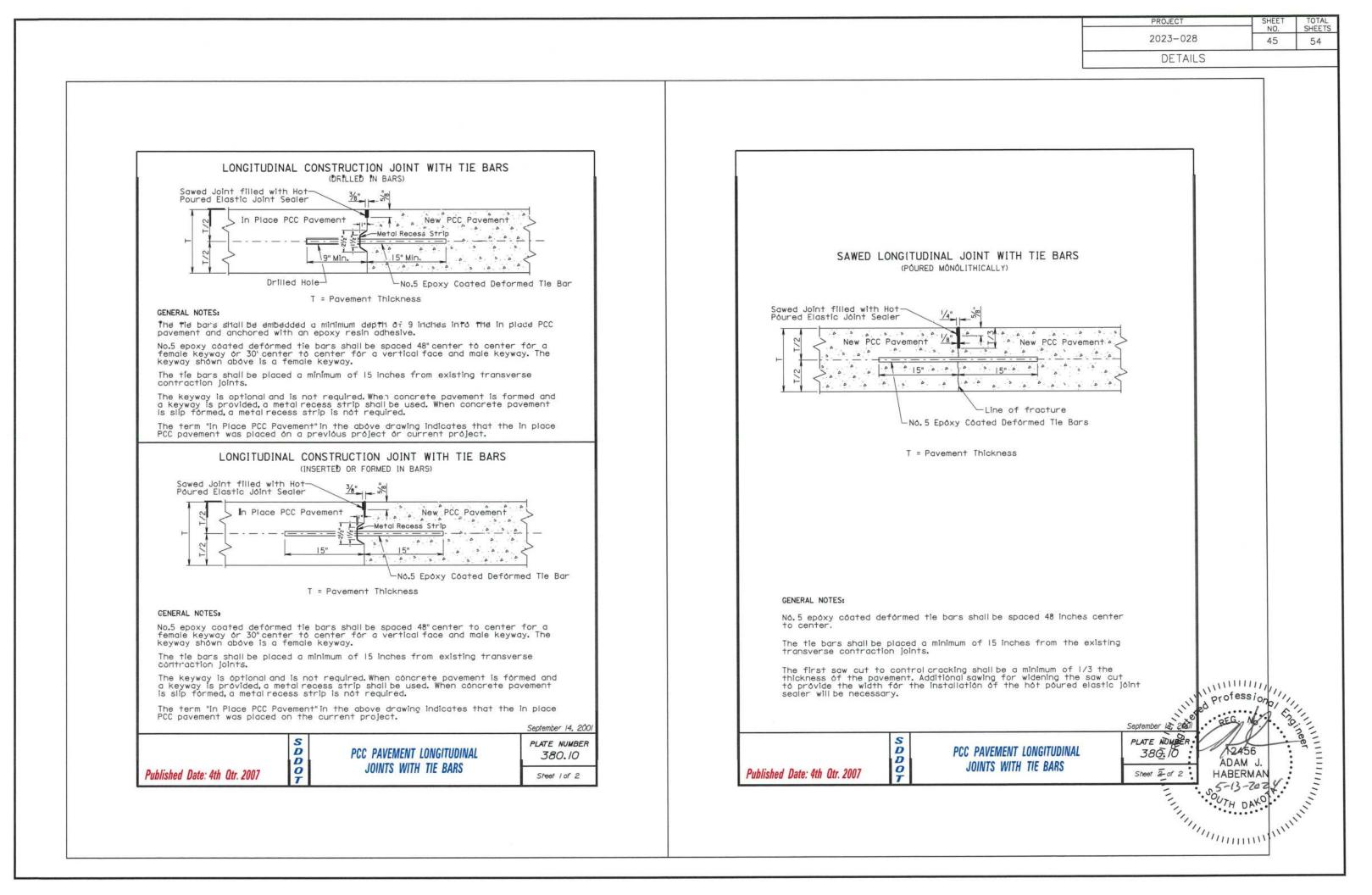
PROJECT	SHEET	TOTAL
0.05580-055800 01901980p-0	NO.	SHEETS
2023-028	43	54
DETAILS		

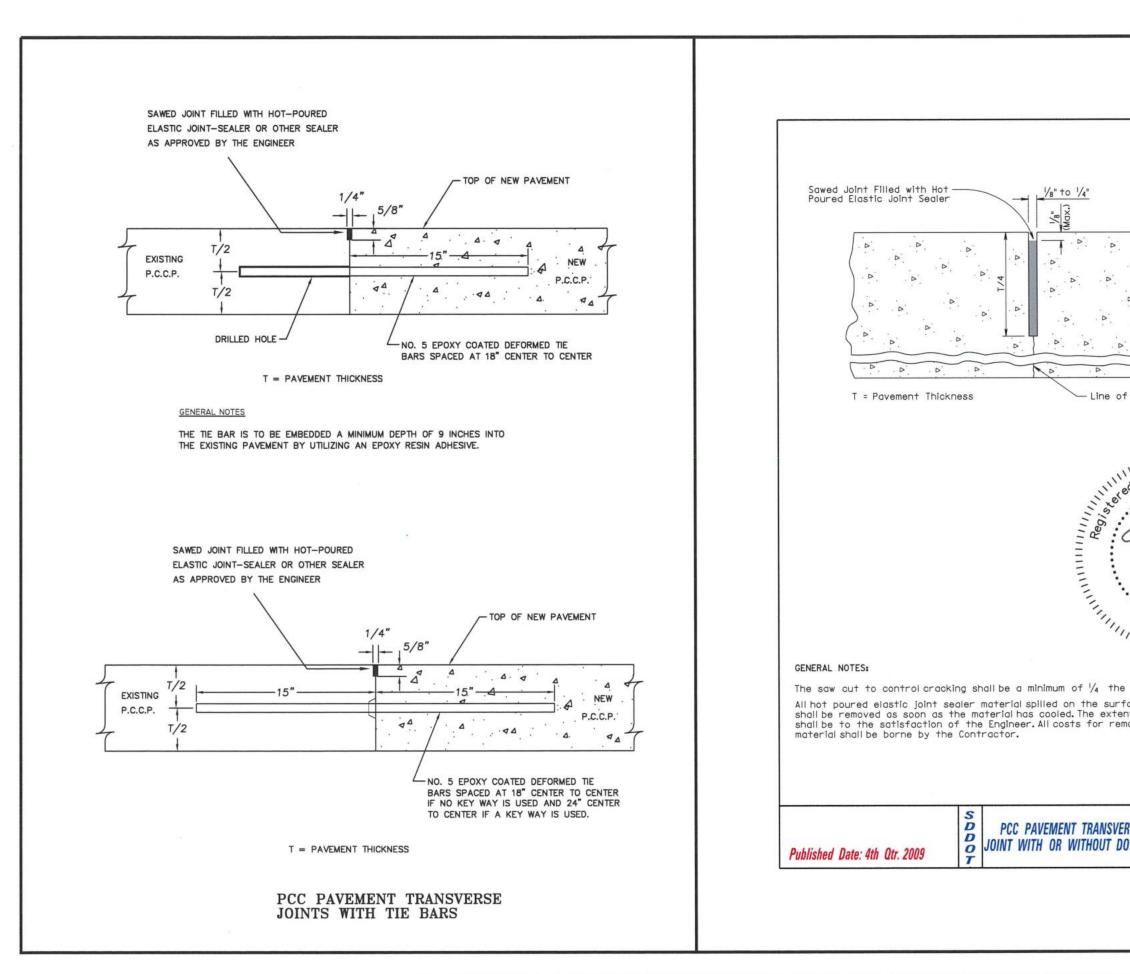
3. CONTRACTOR MAY PROVIDE ALTERNATE DESIGNS FOR APPROVAL BY THE ENGINEER.



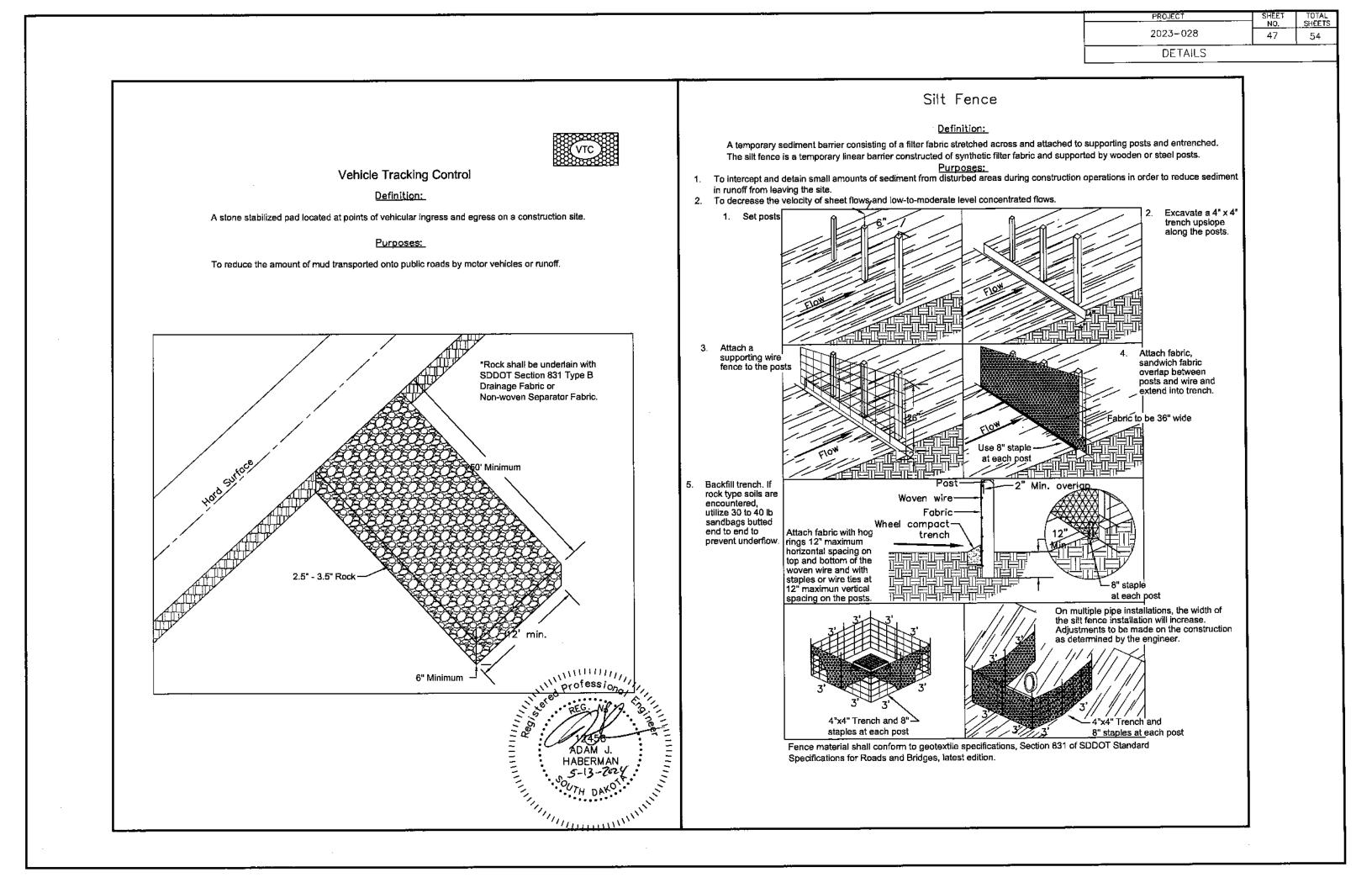


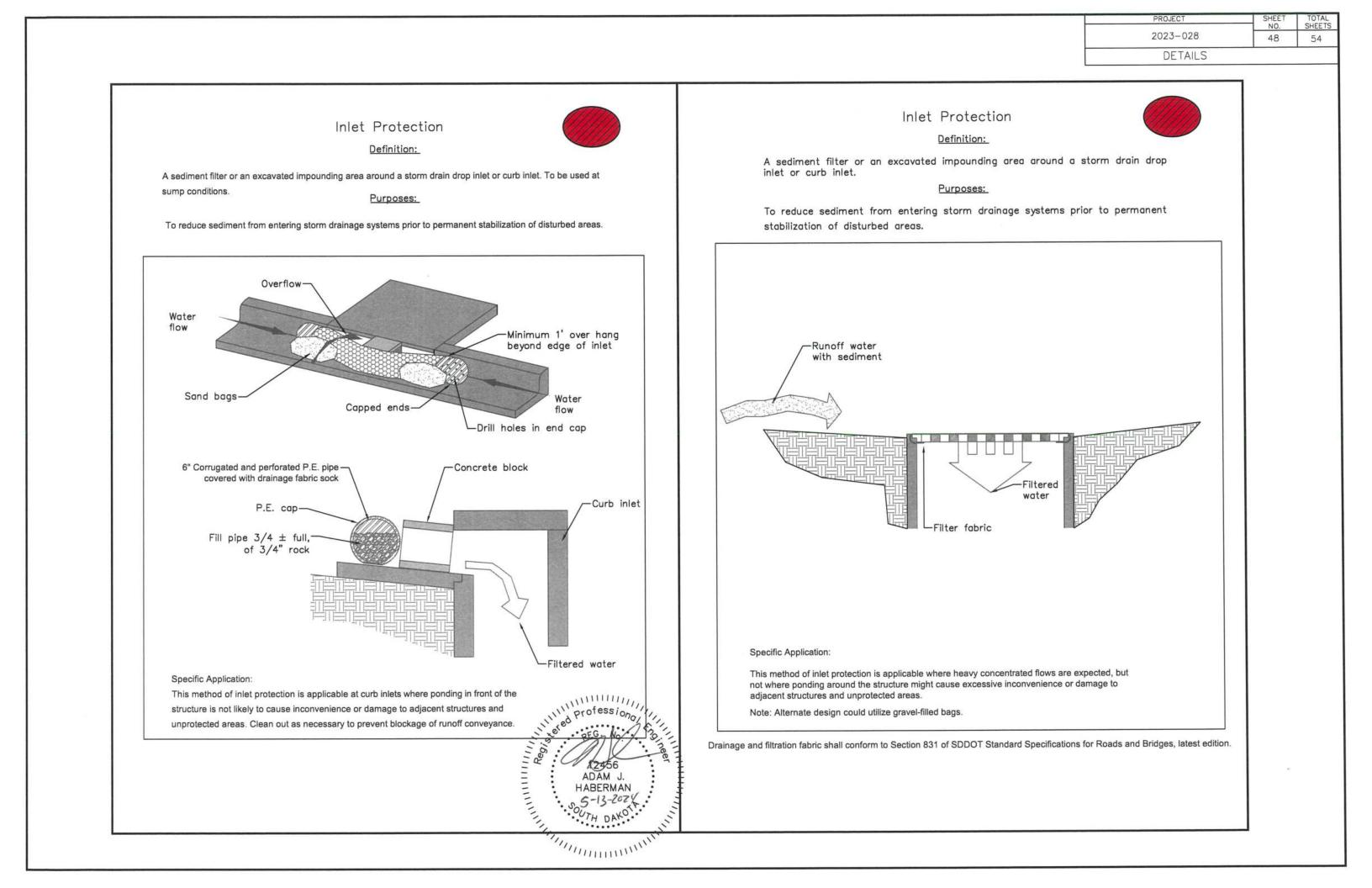
			TOTAL
	PROJECT	SHEET NO.	TOTAL SHEETS
	2023-028	44	54
	DETAILS	5	
rade in this area. The ssing (including the	pe on the ramp and the ne maximum cross slope fillet or curb and d 5% on uncontrolled or		
irection. Where the walk (example: 6" o t by 5 foot minimu he ramp run. The g	f 1.5% with a maximum turning space is surb or building), the m. The 5 foot dimension rade change between serpendicular to the		
maximum slope of	osses a curb ramp are the flare sides is 10%. ished on flare slopes but tablished.		
width of detectable vel across the full w curbs or flares. Orie vel unless otherwise	warning surfaces in the idth of the curb ramp or int domes in the stated in plans.		
g space, curb ramp, ess of 6 inches.	and flare slope areas		
rning space and the eed 8.3% slope. How ceed 15 feet, regard	rning space due to o make up the elevation standard sidewalk. This vever, the length of the		
additional sidewall	will not be located		
ns, a curb up to 6 in the turning space o	iches high may need to ir adjoining sidewalk.		
an 8.3% unless other t required to excee	esigned at 7.5% or less erwise specified in the d 15 feet, regardless of aximum cross slope of		
nd detectable warr e for the correspon	ing panel area will be ding concrete sidewalk bid		
ude all costs for mainstallation of the definition of the definiti	nd paid for to the nearest erials, labor, and ectable warning panels.		
		Revised: Dece	mber 2016
in in in its in the second sec	ENGIN	OF SIOUX FALLS EERING DIVISION BLE CURB RAMI	PS
	SPECIFICATION REFERENCE NO. 650	PLATE NUMBER 651.02	

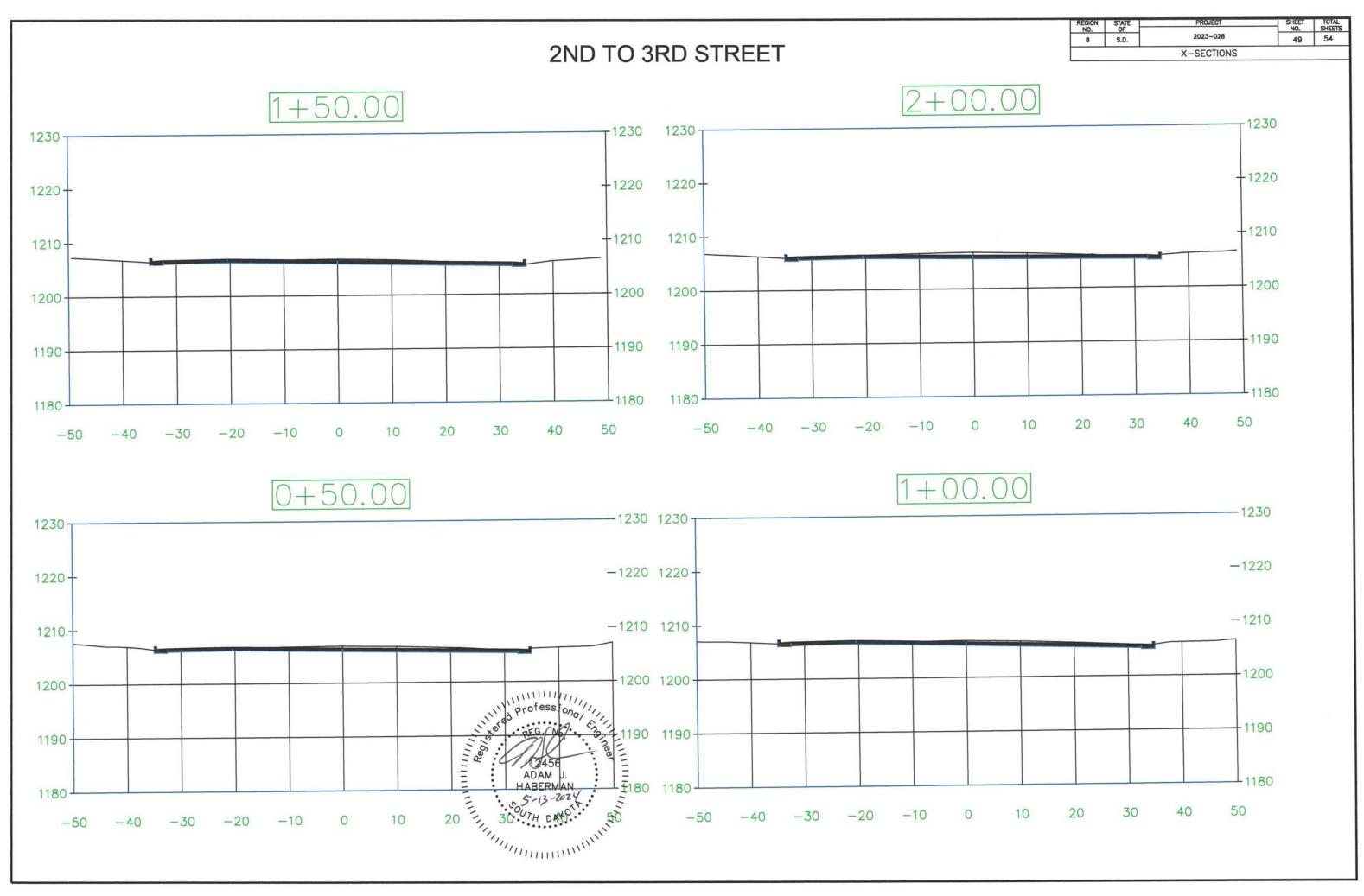


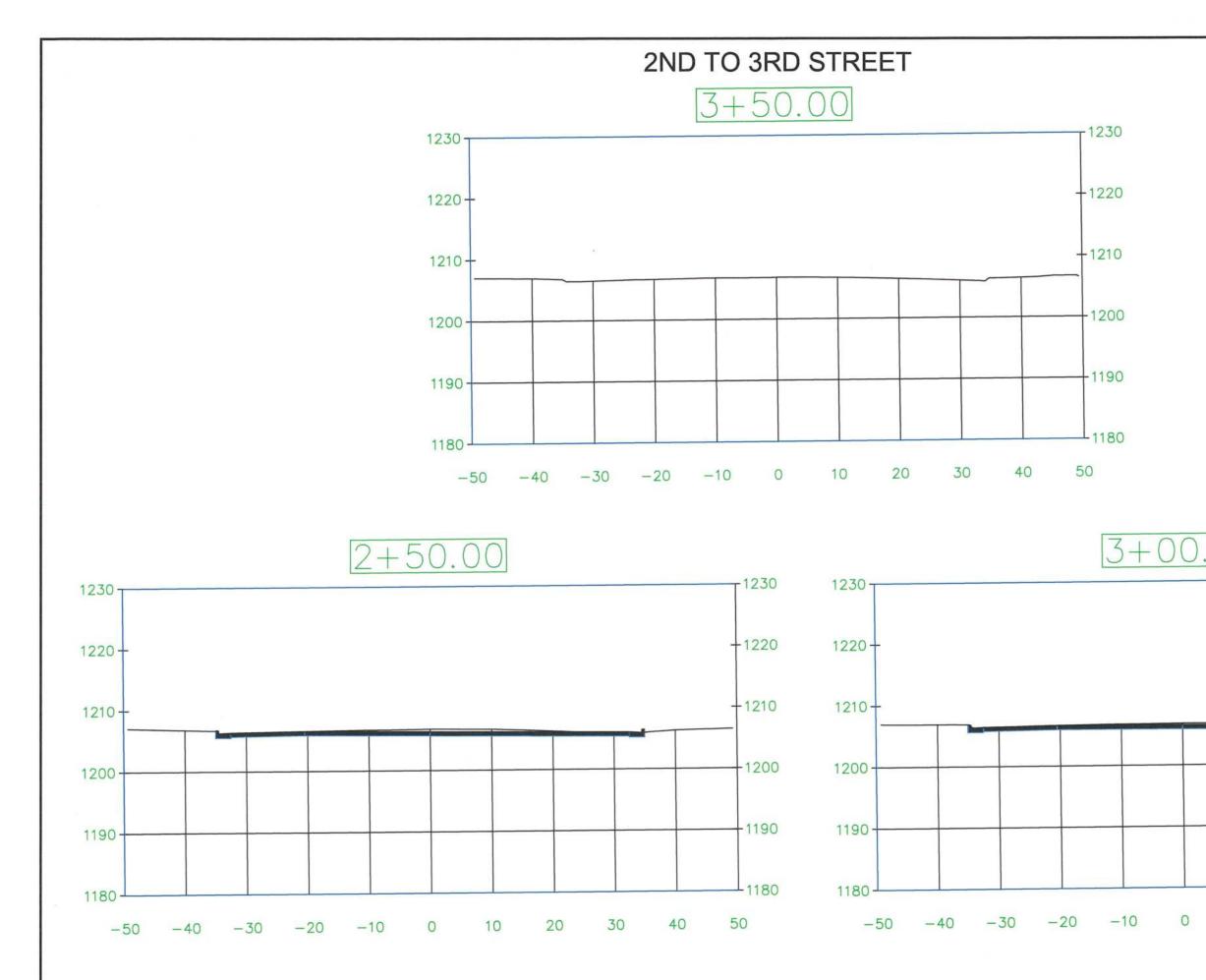


2023-028     46     54       DETAILS   Fracture       Image: state	_		DJECT	SHEET NO.	TOTAL SHEETS
Fracture Fracture HILLING PEC. MAR. Bank Scillon 23, 2007 December 23, 2007 December 23, 2007 PLATE NUMBER 380.03					54
Procture Fractu		[	DETAILS		
ADAM J. HABERMAN S-13-2024 OUTH DAKOT HILLIN HILL	Fracture				
December 23, 2007 December 23, 2007 December 23, 2007 PLATE NUMBER 380.03	HABERMAN S-13-2027 OUTH DAKO	avement.			
WEL BAR ASSEMBLY	t of removal of mat val of the spilled j	December 23, 2007 PLATE NUMBER			
			]		





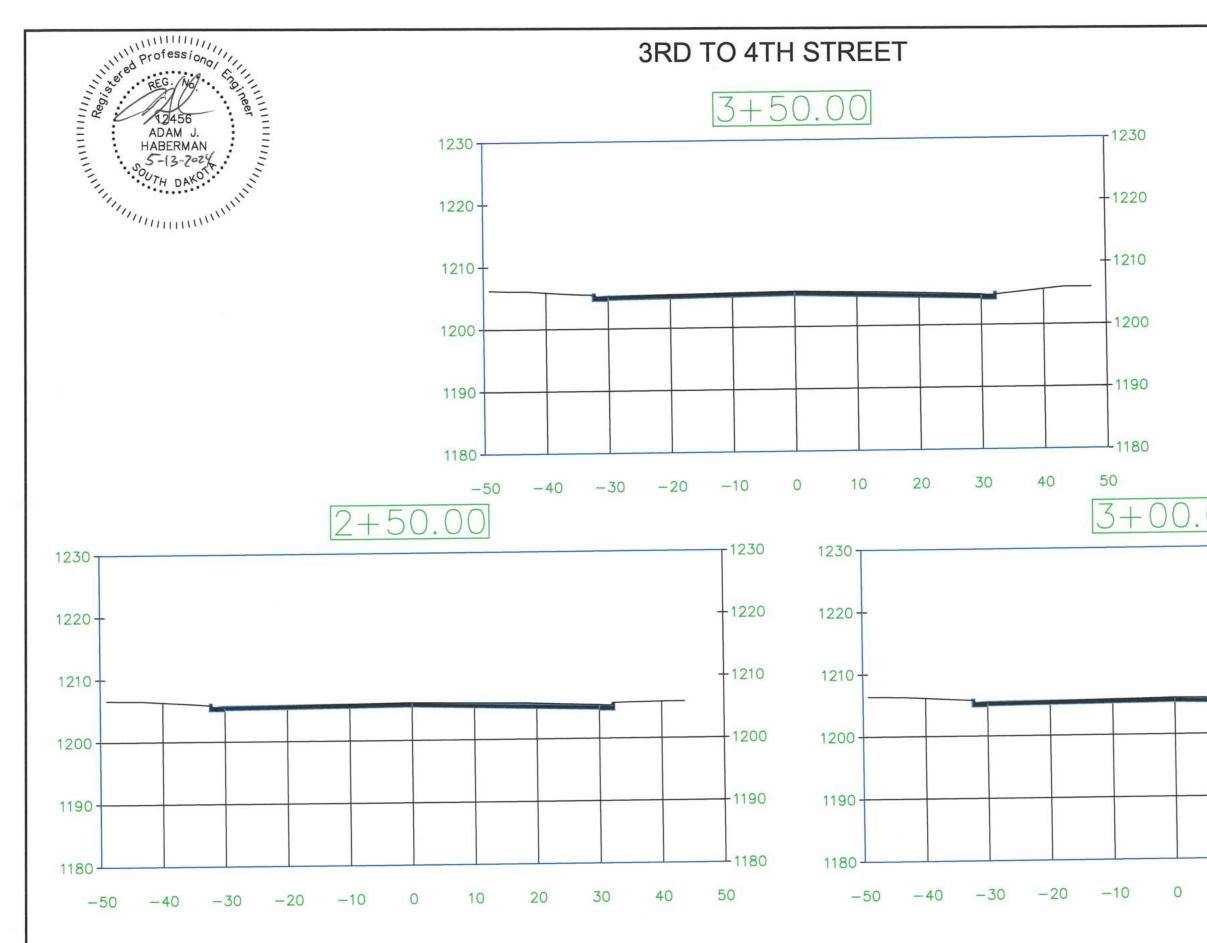




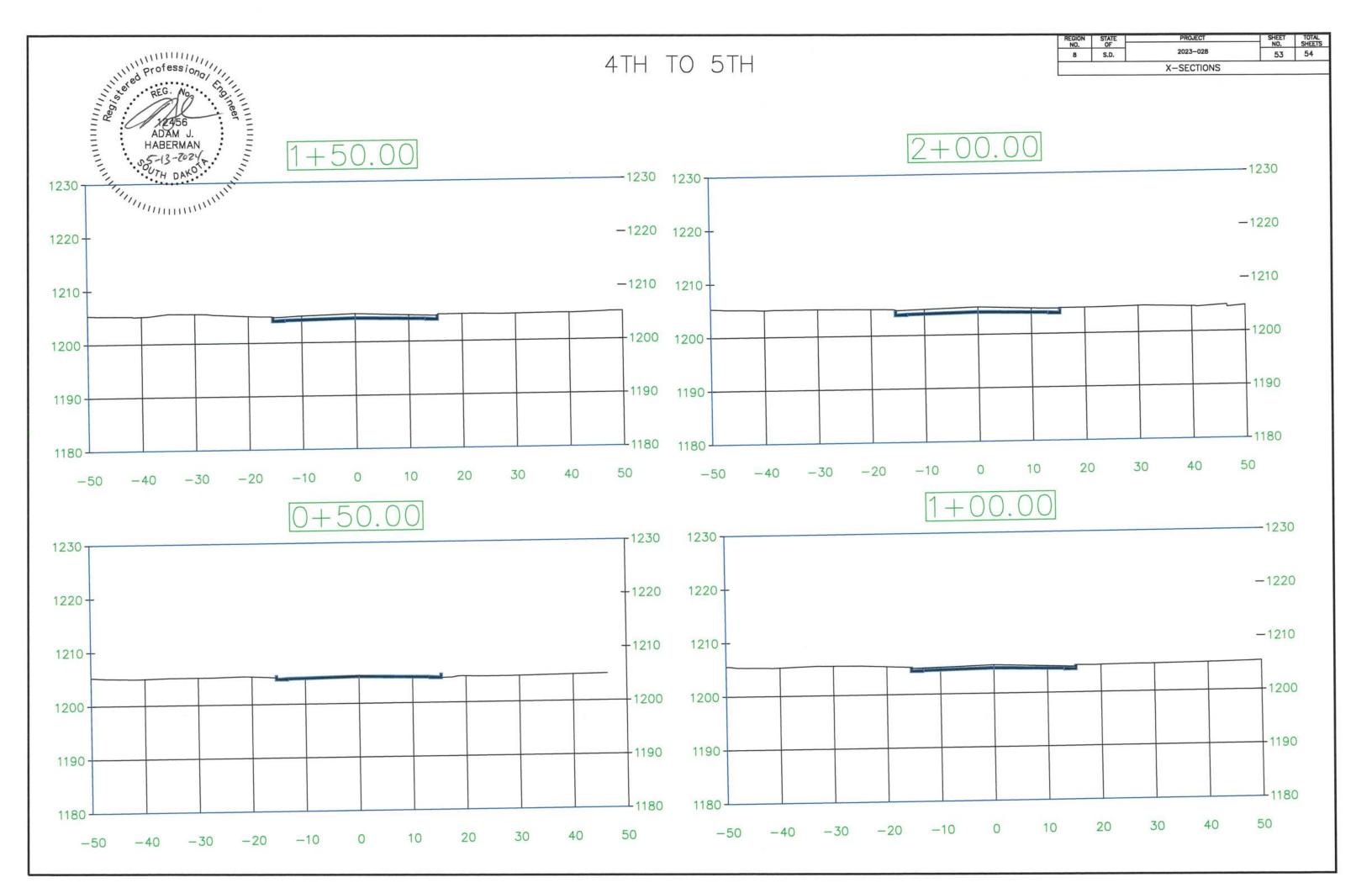
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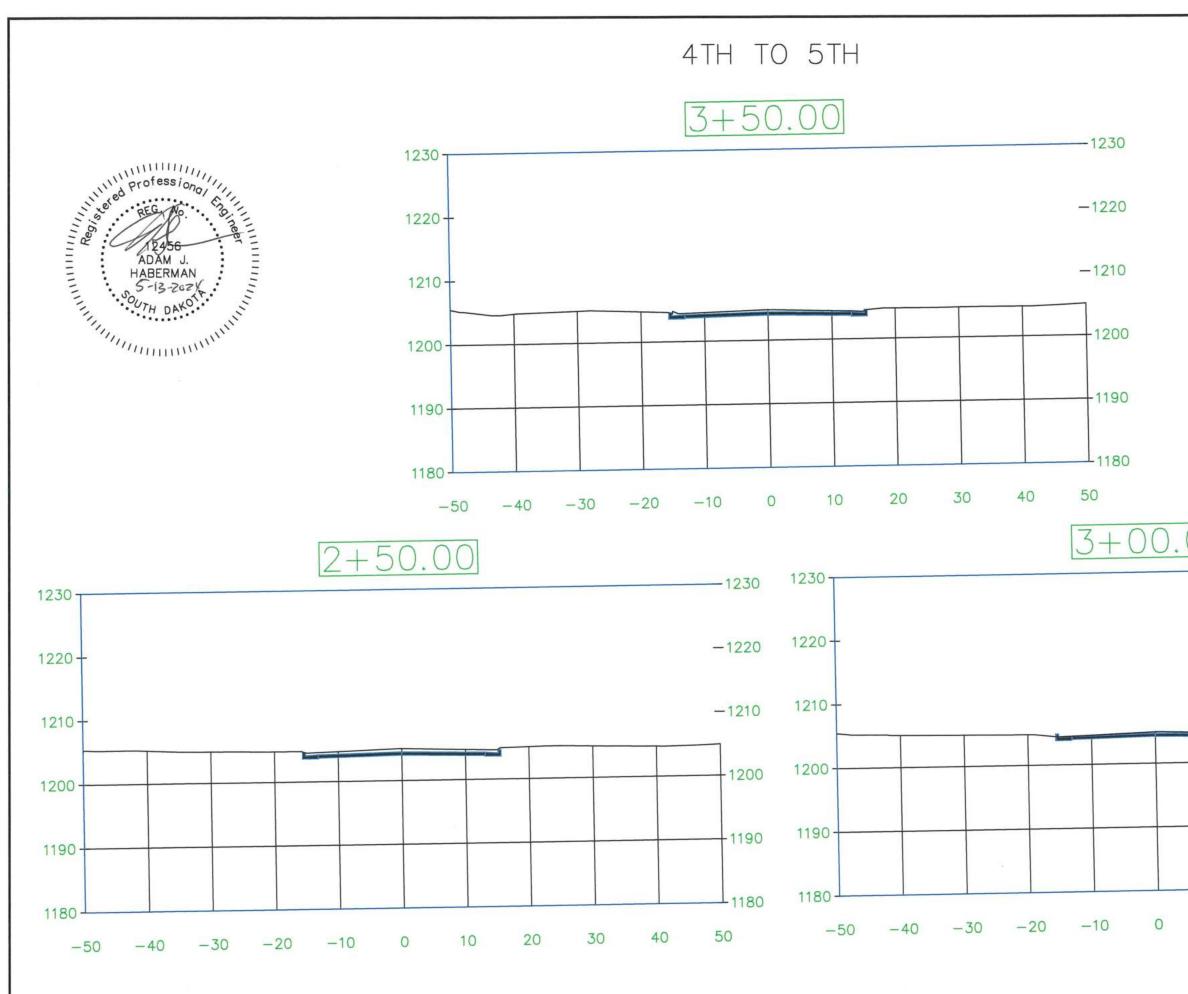
	REGION	STATE		PROJECT		SHEET NO.	TOTAL SHEETS
	NO. 8	OF S.D.		2023-028		NO. 50	54
			X-:	SECTIONS	;		
		ADAM HABER	56 58 1 J. 2025				
.00						T 123	0
						-122	
						-121	D
						120	0
						-119	0
						118	0
1	0	20	30	4(	C	50	





	REGION	STATE	Р	ROJECT		SHEET NO.	TOTAL SHEETS
	NO. 8	OF S.D.	20	23-028		NO. 52	54
			X-S	ECTIONS			
00	1						
00							
						1230	
					1	1220	
						1210	
						1210	
						1000	
						1200	
						1190	
						-1180	
10		20	30	40	5	0	





	REGION NO.	STATE	PF	ROJECT	SHEET TOTAL NO. SHEETS
	8	S.D.		23-028	54 54
			X-SE	ECTIONS	
00					
00					
					1230
					-1220
					-1210
					1200
					1190
					1150
					1100
					1180
10		20	30	40	50
10		20	50	40	00