

December 6, 2024

**ADDENDUM NO. 2**

**RE: Item #1, December 11, 2024 Letting - NH-CR 0014(185)229, PCN 026Z, Hughes County - Urban Grading, Curb & Gutter, Sidewalk, Signals, Storm Sewer, Lighting, Asphalt Concrete Surfacing, PCC Surfacing**

**TO WHOM IT MAY CONCERN:**

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

**SPECIAL PROVISIONS:** NO CHANGE

**SDEBS BID PROPOSAL:** *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

**Bid Items were added:**

Bid Item 450E8029 "42" RCP to CMP Transition, Furnish"  
Bid Item 450E8030 "42" Pipe Transition, Install"

**Quantities for Bid Items were changed:**

Bid Item 450E0192 "42" RCP Class 2, Furnish" changed from 2,064 to 2,090 Ft  
Bid Item 450E0200 "42" RCP, Install" changed from 2,064 to 2,090 Ft  
Bid Item 450E4798 "42" CMP 14 Gauge, Furnish" changed from 302 to 214 Ft  
Bid Item 450E4800 "42" CMP, Install" changed from 302 to 214 Ft  
Bid Item 450E5030 "42" CMP Elbow, Furnish" changed from 2 to 4 Each  
Bid Item 450E5031 "42" CMP Elbow, Install" changed from 2 to 4 Each  
Bid Item 634E0640 "Temporary Pavement Marking" changed from 28,858 to 26,283 Ft

**PLANS:** Please destroy sheets A1, B2, B21, B61, B62, B63, C2 and C11 and replace with the enclosed sheets, dated 12/5/24 & 12/6/24.

**Sheets A2 & B2:**

**Bid Items were added:**

Bid Item 450E8029 "42" RCP to CMP Transition, Furnish"  
Bid Item 450E8030 "42" Pipe Transition, Install"

**Quantities for Bid Items were changed:**

Bid Item 450E0192 "42" RCP Class 2, Furnish" changed from 2,064 to 2,090 Ft  
Bid Item 450E0200 "42" RCP, Install" changed from 2,064 to 2,090 Ft  
Bid Item 450E4798 "42" CMP 14 Gauge, Furnish" changed from 302 to 214 Ft

Bid Item 450E4800 "42" CMP, Install" changed from 302 to 214 Ft  
Bid Item 450E5030 "42" CMP Elbow, Furnish" changed from 2 to 4 Each  
Bid Item 450E5031 "42" CMP Elbow, Install" changed from 2 to 4 Each

**Sheets A2 & C2:**

**Quantities for Bid Items were changed:**

Bid Item 634E0640 "Temporary Pavement Marking" changed from  
28,858 to 26,283 Ft

**Sheet B21:** PIPE TABLE was revised.

**Sheet B61:** Stationing was revised. Pipe install callouts and associated quantities for pipes at Stations 935+05 through Station 936+20 were revised. Pipe quantity for pipe callouts at Station 932+73 and Station 936+20 were revised.

**Sheet B62:** Concrete collar note was revised to show pipe transition. Elbows were added to drawing.

**Sheet B63:** End Station Callout Note for 60" RCP was revised.

**Sheet C11:** TABLE OF TEMPORARY PAVEMENT MARKING was revised and note was added.

Sincerely,

Sam Weisgram  
Engineering Supervisor

SW/cj

CC: Jason Humphrey, Pierre Region Engineer  
Dean VanDeWiele, Pierre Area Engineer

# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0014(185)229	A1	A7

## Section B - Grading

REV 05-31-24 GE  
REV 07-09-24 GE  
REV 08-27-24 GE  
REV 11-22-24 GE  
REV 12-03-24 GE  
REV 12-06-24 GE

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	152	Each
009E3230	Grade Staking	2,902	Mile
009E3250	Miscellaneous Staking	1,392	Mile
009E3301	Engineer Directed Surveying/Staking	80,0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	70	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	15,215	Ft
110E0400	Remove Drop Inlet	39	Each
110E1100	Remove Concrete Pavement	1,433.0	SqYd
110E1130	Remove Concrete Driveway Pavement	2,711.3	SqYd
110E1140	Remove Concrete Sidewalk	9,383.3	SqYd
110E5720	Salvage Drop Inlet Frame and Grate Assembly	5	Each
120E0010	Unclassified Excavation	41,396	CuYd
120E6000	Water for Dust Control	50.0	MGal
120E6100	Water for Embankment	14.5	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	2,241.0	Ton
270E0022	Salvage Asphalt Mix Material	11,612.1	Ton
270E0112	Salvage Granular Material	21,353.1	Ton
380E2564	4" Barrier Type Colored Median PCC Pavement	344.6	SqYd
380E3540	8" PCC Approach Pavement	3,736.7	SqYd
380E4050	8" PCC Fillet Section	1,542.0	SqYd
450E0122	18" RCP Class 2, Furnish	4,214	Ft
450E0130	18" RCP, Install	4,214	Ft
450E0142	24" RCP Class 2, Furnish	2,028	Ft
450E0150	24" RCP, Install	2,028	Ft
450E0162	30" RCP Class 2, Furnish	542	Ft
450E0170	30" RCP, Install	542	Ft
450E0182	36" RCP Class 2, Furnish	826	Ft
450E0190	36" RCP, Install	826	Ft
450E0192	42" RCP Class 2, Furnish	2,090	Ft
450E0200	42" RCP, Install	2,090	Ft
450E0212	54" RCP Class 2, Furnish	162	Ft
450E0220	54" RCP, Install	162	Ft
450E0222	60" RCP Class 2, Furnish	64	Ft
450E0230	60" RCP, Install	64	Ft
450E2044	60" RCP Flared End, Furnish	1	Each
450E2045	60" RCP Flared End, Install	1	Each
450E3062	54" RCP Arch Class 2, Furnish	398	Ft
450E3070	54" RCP Arch, Install	398	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E4798	42" CMP 14 Gauge, Furnish	214	Ft
450E4800	42" CMP, Install	214	Ft
450E5030	42" CMP Elbow, Furnish	4	Each
450E5031	42" CMP Elbow, Install	4	Each
450E8029	42" RCP to CMP Transition, Furnish	2	Each
450E8030	42" Pipe Transition, Install	2	Each
451E0518	8" PVC Pipe	28	Ft
451E3118	18" Pipe Cap	1	Each
462E0100	Class M6 Concrete	334,1	CuYd
480E0100	Reinforcing Steel	63,179	Lb
600E0300	Type III Field Laboratory	1	Each
650E0060	Type B66 Concrete Curb and Gutter	13,563	Ft
650E0080	Type B68 Concrete Curb and Gutter	1,843	Ft
650E4660	Type P6 Concrete Gutter	1,272	Ft
650E4680	Type P8 Concrete Gutter	70	Ft
650E6280	8" Concrete Valley Gutter	333.5	SqYd
651E0040	4" Concrete Sidewalk	24,073	SqFt
651E0060	6" Concrete Sidewalk	84,113	SqFt
651E0560	6" Colored Concrete Sidewalk	29,250	SqFt
651E5000	Sidewalk Drain	23,0	Ft
651E7000	Type 1 Detectable Warnings	1,737	SqFt
670E1200	Type B Frame and Grate	84	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	3	Each
670E5400	Precast Drop Inlet Collar	84	Each
671E4048	48" Manhole Riser Section	41.3	Ft
671E6009	Type A9 Manhole Frame and Lid	33	Each
900E0010	Refurbish Single Mailbox	7	Each
900E1150	Right of Way Marker	6	Each
900E5145	Bollard	2	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

### INDEX OF SHEETS

A1 to A3 Estimate of Quantities for Sections B, C, D, F, L,  
M and S  
A4 to A7 Environmental Commitments

## Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E6005	Pavement Marking Masking, 5"	885	Ft
633E6035	Pavement Marking Masking, Combination Arrow	4	Each
634E0010	Flagging	1,000,0	Hour
634E0110	Traffic Control Signs	1,178.7	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	58	Each
634E0330	Temporary Raised Pavement Markers	21,589	Ft
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0640	Temporary Pavement Marking	26,283	Ft
634E0700	Traffic Control Movable Concrete Barrier	17	Each
634E1002	Detour and Restriction Signing	1,492,5	SqFt
634E1020	Temporary Business Signing	98.4	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	3	Each
634E2000	Longitudinal Pedestrian Barricade	348	Ft
634E2015	Temporary Pedestrian Access Route	Lump Sum	LS
634E2020	Temporary Curb Ramp	5	Each
634E2025	Longitudinal Pedestrian Barrier	1,705	Ft



**SECTION B ESTIMATE OF QUANTITIES**

REV 4-16-24 GE  
REV 7-9-24 GE  
REV 08-27-24 GE  
REV 11-22-24 GE  
REV 12-05-24 GE

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	152	Each
009E3230	Grade Staking	2,902	Mile
009E3250	Miscellaneous Staking	1,392	Mile
009E3301	Engineer Directed Surveying/Staking	80.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	70	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	15,215	Ft
110E0400	Remove Drop Inlet	39	Each
110E1100	Remove Concrete Pavement	1,433.0	SqYd
110E1130	Remove Concrete Driveway Pavement	2,711.3	SqYd
110E1140	Remove Concrete Sidewalk	9,383.3	SqYd
110E5720	Salvage Drop Inlet Frame and Grate Assembly	5	Each
120E0010	Unclassified Excavation	41,396	CuYd
120E6000	Water for Dust Control	50.0	MGal
120E6100	Water for Embankment	14.5	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	2,241.0	Ton
270E0022	Salvage Asphalt Mix Material	11,612.1	Ton
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380E2564	4" Barrier Type Colored Median PCC Pavement	344.6	SqYd
380E3540	8" PCC Approach Pavement	3,736.7	SqYd
380E4050	8" PCC Fillet Section	1,542.0	SqYd
450E0122	18" RCP Class 2, Furnish	4,214	Ft
450E0130	18" RCP, Install	4,214	Ft
450E0142	24" RCP Class 2, Furnish	2,028	Ft
450E0150	24" RCP, Install	2,028	Ft
450E0162	30" RCP Class 2, Furnish	542	Ft
450E0170	30" RCP, Install	542	Ft
450E0182	36" RCP Class 2, Furnish	826	Ft
450E0190	36" RCP, Install	826	Ft
450E0192	42" RCP Class 2, Furnish	2,090	Ft
450E0200	42" RCP, Install	2,090	Ft
450E0212	54" RCP Class 2, Furnish	162	Ft
450E0220	54" RCP, Install	162	Ft
450E0222	60" RCP Class 2, Furnish	64	Ft
450E0230	60" RCP, Install	64	Ft
450E2044	60" RCP Flared End, Furnish	1	Each
450E2045	60" RCP Flared End, Install	1	Each
450E3062	54" RCP Arch Class 2, Furnish	398	Ft
450E3070	54" RCP Arch, Install	398	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E4798	42" CMP 14 Gauge, Furnish	214	Ft
450E4800	42" CMP, Install	214	Ft
450E5030	42" CMP Elbow, Furnish	4	Each
450E5031	42" CMP Elbow, Install	4	Each
450E8029	42" RCP to CMP Transition, Furnish	2	Each
450E8030	42" Pipe Transition, Install	2	Each
451E0518	8" PVC Pipe	28	Ft
451E3118	18" Pipe Cap	1	Each
462E0100	Class M6 Concrete	334.1	CuYd
480E0100	Reinforcing Steel	63,179	Lb
600E0300	Type III Field Laboratory	1	Each
650E0060	Type B66 Concrete Curb and Gutter	13,563	Ft
650E0080	Type B68 Concrete Curb and Gutter	1,843	Ft
650E4660	Type P6 Concrete Gutter	1,272	Ft
650E4680	Type P8 Concrete Gutter	70	Ft
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651E0040	4" Concrete Sidewalk	24,073	SqFt
651E0060	6" Concrete Sidewalk	84,113	SqFt
651E0560	6" Colored Concrete Sidewalk	29,250	SqFt
651E5000	Sidewalk Drain	23.0	Ft
651E7000	Type 1 Detectable Warnings	1,737	SqFt
670E1200	Type B Frame and Grate	84	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	3	Each
670E5400	Precast Drop Inlet Collar	84	Each
671E4048	48" Manhole Riser Section	41.3	Ft
671E6009	Type A9 Manhole Frame and Lid	33	Each
900E0010	Refurbish Single Mailbox	7	Each
900E1150	Right of Way Marker	6	Each
900E5145	Bollard	2	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

**GRADING OPERATIONS**

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste.

The estimated cubic yards of excavation and/or embankment required to construct outlet ditches, ditch blocks, and approaches are included in the earthwork balance notes on the profile sheets.

Special ditch grades and other sections of the roadway different than the typical section(s) will be constructed to the limits shown on the cross sections. If significant changes to the cross sections are necessary during construction, the Engineer will contact the Designer for the proposed change.

Generally, all shallow inlet and outlet ditches as noted on the plan sheets will be cut with a 10-foot wide bottom with 5:1 backslopes. However, the Engineer may direct the Contractor to adjust the ditch width for proper alignment with the drainage structure.

A copy of the subsurface investigation for this project is available for review at the Pierre Region and Pierre Area offices.

**Table for Water for Embankment**

Water for Embankment		Embankment (CuYd)
Station to	Station	
<b>Mainline</b>		
10+00	29+93	181
29+93	61+50	178
61+50	80+45	1,076
	<b>Total Mainline</b>	<b>1,435</b>
	<b>Subtotal Mainline Water at 10gal/cy</b>	<b>14.4</b>
<b>Elizabeth Street</b>		
698+07	701+50	14
	<b>Total Elizabeth Street</b>	<b>14</b>
	<b>Subtotal Mainline Water at 10gal/cy</b>	<b>0.1</b>
	<b>Total Project</b>	<b>1,449</b>
	<b>Water at 10 gal/cy Total Project</b>	<b>14.5</b>



REV 08-12-24 GE  
REV 08-27-24 GE  
REV 12-05-24 GE

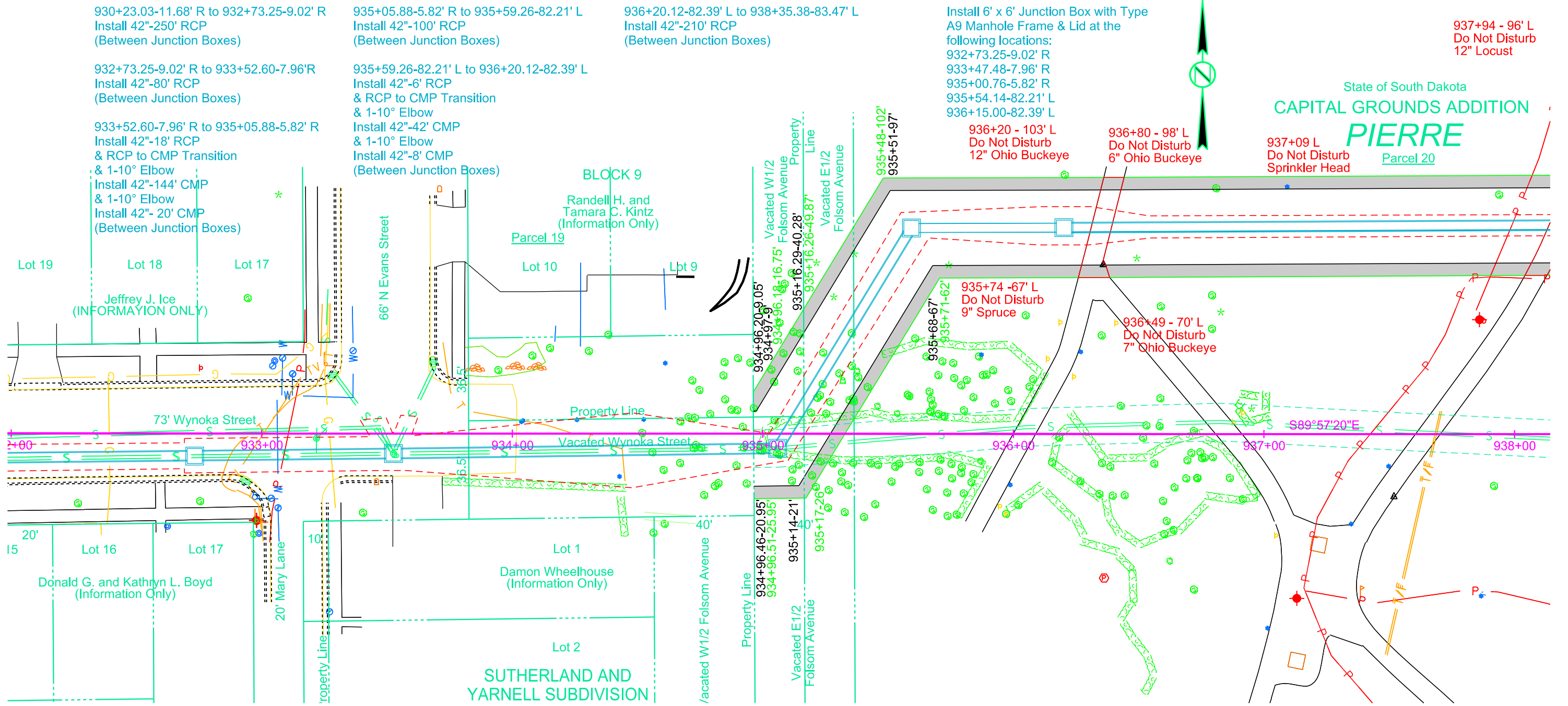
Station	Offset (L/R)	Reinforced Concrete									CMP		RCP to CMP	PVC	
		Circular					Arch	Flared Ends	Pipe Cap	Circular	Elbow	Transition			
		18" Cl. 2	24" Cl.2	30" Cl. 2	36" Cl. 2	42" Cl.2	54" Cl.2	60" Cl.2	54" Cl.2	60"	18"	42"	42" 10°		42"
	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Each	Each	Ft	Each	Each	Ft	
54+13-29.17' L to 54+13-29.17' R	58														
55+63-29.17' R to 54+13-29.17' R	148														
55+65-29.29' R to 55+63-29.17' L	58														
57+38-29.17' R to 55+63-29.17' R	172														
57+38-29.17' L to 57+38-29.17' R	58														
61+03-5.50' R to 61+03-28.17' R		20													
61+03-28.17' L to 61+03-5.50' R		30													
61+03-28.17' R to 714+24-10.42' R		70													
62+02-5.50' R to 61+03-5.50' R		100													
62+01-28.17' R to 62+02-5.50' R	22														
62+98-5.50' R to 62+02+5.50' R		98													
62+98-28.17' R to 62+98-5.50' R	22														
63+52-5.50' R to 62+98-5.50' R		54													
956+58-18.10' R to 63+52-5.50' R	52														
64+78-5.50' R to 63+52-5.50' R		126													
64+78-29.17' R to 64+78-5.50' R	24														
66+30-5.50' R to 64+78-5.50' R		152													
66+28-28.17' R to 66+30-5.50' R	24														
67+60-5.30' R to 66+30-5.50' R		132													
67+78-28.17' R to 67+60-5.30' R		28													
69+28-28.17' R to 67+78-28.17' R		150													
70+78-29.17' R to 69+28-28.17' R		150													
71+88-29.17' R to 70+78-29.17' R	110														
71+88-29.17' L to 71+88-29.17' R	58														
73+93-28.67' R to 71+88-29.17' R	206														
73+93-28.67' L to 73+93-28.67' R	58														
74+98-29.17' R to 73+93-28.67' R	106														
75+18-29.17' L to 74+98-29.17' R	60														
75+88-29.17' R to 74+98-29.17' R	90														
77+83-31.50' R to 75+88-29.17' R	196														
77+85-4.20' R to 77+84-31.50' R	26														
77+85-3.83' L to 77+85-4.20' R	8														
77+87-29.17' L to 77+85-3.83' L	26														
<b>Wynoka Street</b>															
926+41-14.43' R to 927+32-7.41' R					86										
927+32-7.41' R to 929+85-9.42' R					248										
929+82-17.70' R to 929+85-9.42' R	6														
929+85-9.42' R to 930+23-11.68' R					34										
930+23-11.68' R to 932+73-9.02' R					250										
932+73.9.02' R to 933+53-7.96' R					80										
933+53-7.96' R to 935+06-5.82' R					20					164	2	1			
935+06-5.82' R to 935+59-82.21' L					100										
935+59-82.21' L to 936+20-82.39' L					6					50	2	1			
936+20-82.39' L to 938+35-83.47' L					210										
938+35-83.47' L to 936+02-83.96' L						64			1						
<b>Totals:</b>	1588	1110	0	0	1034	0	64	0	1	0	214	4	2	0	
<b>Grand Total:</b>	4214	2028	542	826	2090	162	64	398	1	1	214	4	2	28	



# Wynoka Street

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0014(185)229	SHEET B61	TOTAL SHEETS B151
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REV 11-11-22 DBT  
REV 12-06-23 GCE  
REV 12-05-24 GCE



State of South Dakota  
**CAPITAL GROUNDS ADDITION**  
**PIERRE**  
 Parcel 20

935+15 - 5' R  
 Cut, Cap and Fill - 18" Pipe  
 (Incidental Work, Grading)

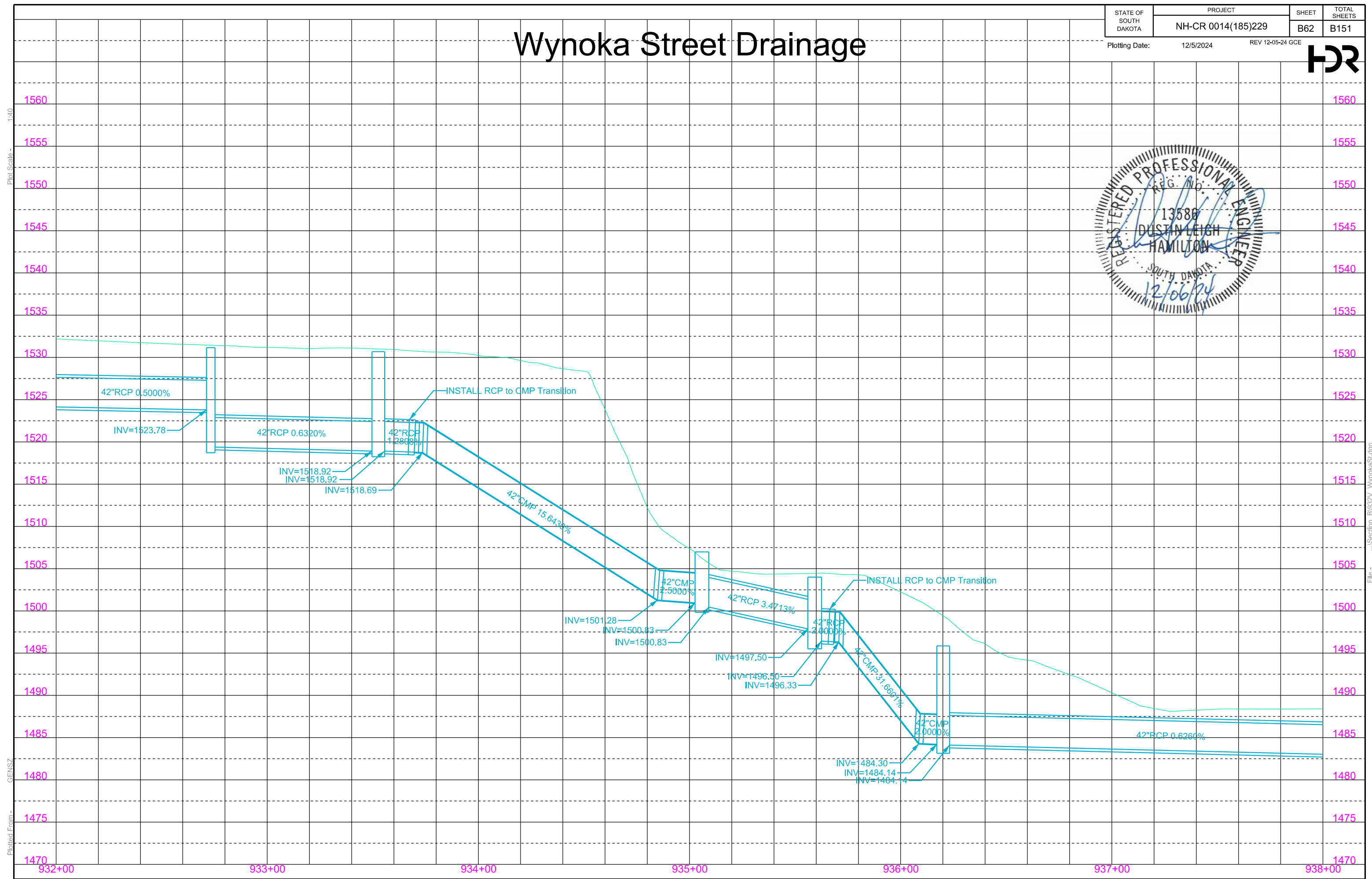
Parcel 19  
 934+96.18 to 935+36.40 L & R  
 Temporary Easement Containing  
 342 Sq Ft, more or less

Parcel 20  
 935+36.16 to 939+92.11 L & R  
 Temporary Easement Containing  
 43,705 Sq Ft, more or less



# Wynoka Street Drainage

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0014(185)229	SHEET B62	TOTAL SHEETS B151
Plotting Date: 12/5/2024		REV 12-05-24 GCE	



Plot Scale - 1"=40'

Plotted From - GENSZ

File - ...Section\_B1832V\_WynokaSt.dgn

# Wynoka Street

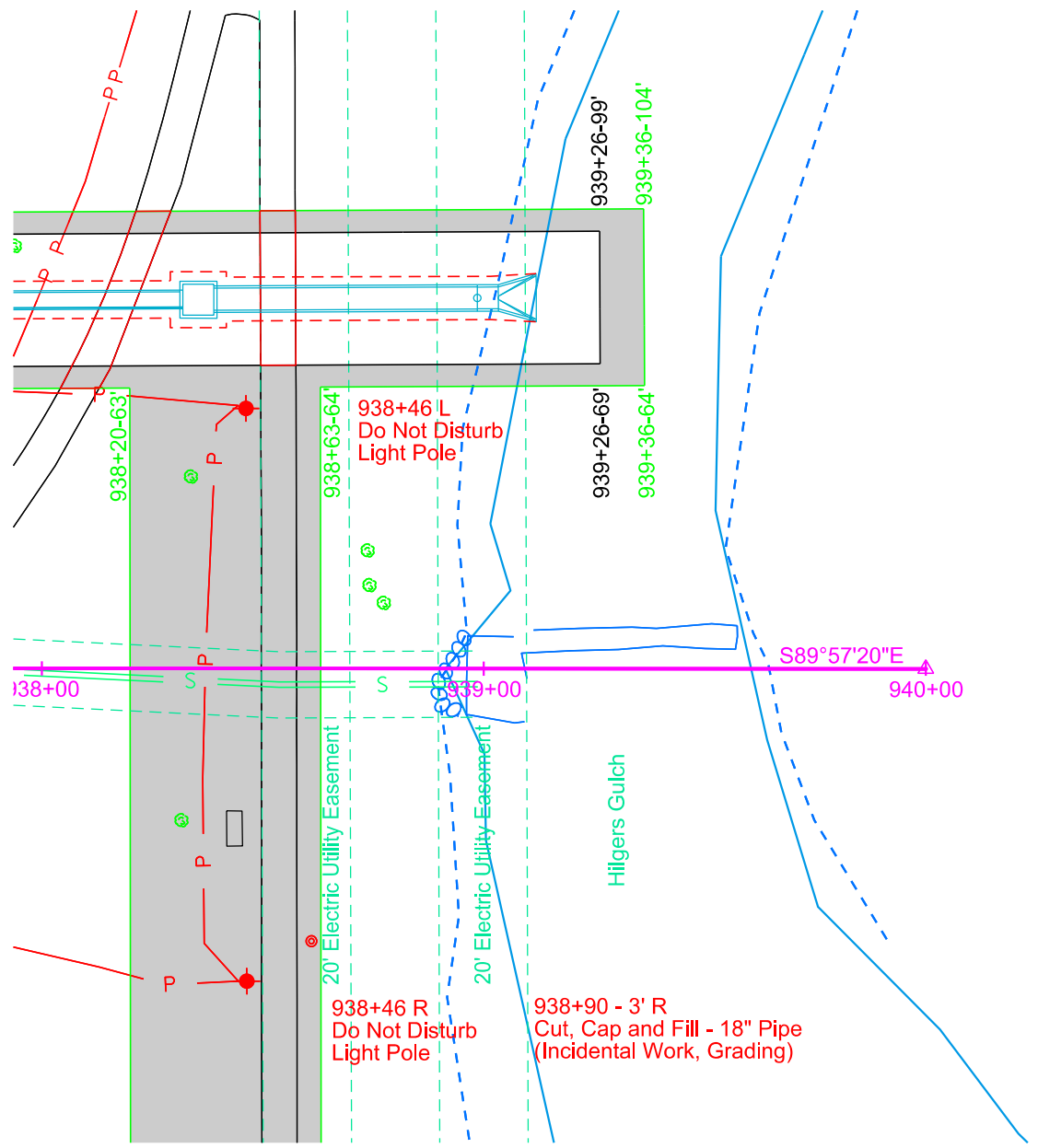
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0014(185)229	B63	B151

REV 11-11-22 DBT  
 REV 12-07-23 GCE  
 REV 08-26-24 GCE  
 REV 12-05-24 GCE



938+35.38-83.47' L to 939+01.55-83.96' L  
 Install 60"-64' RCP & Flared End  
 (Between Junction Box and Pipe Outfall)

Install 7' x 7' Junction Box with  
 Type A9 Manhole Frame & Lid at  
 the following locations:  
 938+35.38-83.47' L



Parcel 20  
 State of South Dakota  
 CAPITAL GROUNDS ADDITION  
**PIERRE**

Parcel 20  
 935+36.16 to 939+92.11 L & R  
 Temporary Easement Containing  
 43,705 Sq Ft, more or less





**SECTION C ESTIMATE OF QUANTITIES\***

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E6005	Pavement Marking Masking, 5"	885	Ft
633E6035	Pavement Marking Masking, Combination Arrow	4	Each
634E0010	Flagging	1,000.0	Hour
634E0110	Traffic Control Signs	1,178.7	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	58	Each
634E0330	Temporary Raised Pavement Markers	21,589	Ft
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0640	Temporary Pavement Marking	26,283	Ft
634E0700	Traffic Control Movable Concrete Barrier	17	Each
634E1002	Detour and Restriction Signing	1,492.5	SqFt
634E1020	Temporary Business Signing	98.4	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	3	Each
634E2000	Longitudinal Pedestrian Barricade	348	Ft
634E2015	Temporary Pedestrian Access Route	Lump Sum	LS
634E2020	Temporary Curb Ramp	5	Each
634E2025	Longitudinal Pedestrian Barrier	1,705	Ft

\*Some quantities are based on the maximum number of TC phases that can be implemented simultaneously. See "Mainline Phases" notes below.

**SEQUENCE OF OPERATIONS**

Contractor requests to deviate from the sequence of operations will be submitted in writing to the Engineer for review. Approval of an alternate sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work. An alternate sequence will be submitted for review a minimum of one week prior to potential implementation.

Work on this project will consist of pavement removal, grading, storm sewer, utility relocation, traffic signal removal and installation, ADA improvements, PCC installation, asphalt concrete resurfacing, and permanent pavement marking.

The Contractor will be required to maintain all detour routes throughout the length and duration of the project to the satisfaction of the Engineer. Locations for repair will be determined by the Engineer. See Section F for quantities.

Details in the traffic control plans are based on the following sequence of operations for construction of the project. The sequencing is based on anticipated areas of construction. Mainline Phases 1 & 2 can be worked on concurrently, and the side-street phases (Wynoka St. and Elizabeth St.) can be worked on in conjunction with any mainline phase. Additional concurrent work will be allowed if resources are proven available, concurrent work is supported by the construction schedule, and the work is ultimately approved by the Engineer. The work will be divided into the following phases:

**MAINLINE PHASE 1A/1B/1C/1D/1E**

Phase 1 will consist of work on the Sioux Ave./South Pierre St. intersection as well as mainline S Pierre St./Pleasant Dr. Work on Sioux Ave will be in the westbound lane from approximately Sta. 900+91.25 to Sta. 901+91.70. Work on S Pierre St. will be from approximately Sta. 10+00 to Sta. 32+70. Work on Pleasant Dr. will be from approximately Sta. 906+00 to Sta. 910+55.

- During Phase 1A, the Contractor will set up two-way traffic in the westbound lanes of Sioux Ave. to complete all work on the south side of the S Pierre St./Sioux Ave. intersection. Work from approximately Sta. 10+37 to 12+66 will be allowed on S Pierre St. as a full road closure. This work will continue into Phases 1B and 1C. The two-way traffic will be set up for continuous flow in both directions, with no turning movements allowed. S Pierre St. south of the intersection will be given two-way functionality. Phase 1A will consist of work from approximately Sta. 9+50 to Sta. 10+00 (S Pierre St. alignment).

- o During phases 1A-1C, S Pierre St. will be open to southbound traffic from Pleasant Dr. in order to access the Federal Building and Walgreens. A U-turn will be implemented just north of the work zone in order to return traffic to Pleasant Dr., and a temporary access will be set up from the alley north of the Federal Building to provide access to the parking lot. Direct access to the Federal Building from S Pierre St. will be closed.
- o Traffic intending to access S Pierre St. south of the intersection will be detoured to Highland Ave. and Central Ave., with access then provided off Dakota Ave. This portion of S Pierre St. will be reconfigured as a two-way road for the duration of Phases 1A-1C, with a U-turn at the north end to return traffic back to Dakota Ave. See sheets C16, C32, and C44 for detailing.

- During Phase 1B, the Contractor will set up continuous two-way traffic in the eastbound lanes of Sioux Ave. No turning movements from Sioux Ave. will be allowed, as in Phase 1A. Phase 1B will consist of work from approximately Sta. 10+00 to Sta. 12+66.

- During Phase 1C, the Contractor will set up two-way traffic in the outermost lanes of Sioux Ave. to accommodate resurfacing work in the middle of the intersection. The two-way functionality of S Pierre St. will be removed, and access re-opened from Sioux Ave., following completion of Phase 1C work. No turning movements from Sioux Ave. will be allowed, as in Phase 1A.

- During Phase 1D, the U-turn at the Federal Building/Walgreens will be flipped and placed facing south at roughly Sta. 12+66. S Pierre St. will be closed in its entirety from Sta. 12+66 to Pleasant Dr. Two-way traffic will be implemented in the existing westbound lanes of Pleasant. The gravel access through the alley to the Federal Building will be maintained, and access to Walgreens and the alley will be closed off. Work will extend past the limits of S Pierre St. onto Pleasant Dr. Phase 1D will consist of work from approximately Sta. 12+66 to Sta. 18+00 on S Pierre St., and from Sta. 906+00 to 910+55 on Pleasant Dr.

- During Phase 1E, Pleasant Dr. will be closed off at the west intersection with S Pierre St. Two-way traffic will be implemented in the eastbound lanes, with ingress/egress allowed only onto S Pierre St. south of Pleasant Dr. and onto Pleasant Dr. east of the work zone. The U-turn will be moved to roughly Sta. 18+10 facing north to return traffic to Capitol Ave. Phase 1E will consist of work from approximately Sta. 12+50 to Sta. 18+80 on S Pierre St., and from Sta. 906+00 to 910+55 on Pleasant Dr.

Phase 1 will consist of removal and installation of storm sewer reinforced concrete pipe/inlets, removal and installation of manholes, installation of junction boxes, traffic signal replacement, pedestrian push buttons, grading, curb and gutter, sidewalk, city utility work, PCC and asphalt resurfacing, and permanent pavement markings. Work will also include tying new storm sewer into the existing storm sewer system in all directions to maintain drainage on the project at all times.

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	NH-CR 0014(185)229	C2	C46

The Contractor will take the following additional considerations into account during Phase 1 operations:

1. OVERWIDTH DETOUR – During Phases 1A-1C, overwidth traffic on Sioux Ave. will be diverted north around the Oahe Dam as detailed on sheets C33-C36.
2. Work on Phase 1D will not begin until work on Phase 1C is completed.
3. Phase 1E can be worked on concurrently with Phases 1A-1C. If the Contractor elects to do this, Phase 1D will take place after 1E, and existing road width will be utilized to allow egress onto Pleasant Dr. west of the work zone. Phase 2A will not be worked on if 1E is closed.

**MAINLINE PHASE 2A/2B/2C/2D**

Phase 2 will consist of sequential full-width closures on Euclid Ave. between Pleasant Dr. and Wynoka St. from approximately Sta. 18+80 to Sta. 32+70. These closures are allowed to take place concurrently with Phases 1A-1C. Phase 2 closures will only be worked south to north. Egress onto at least one of the side streets within Phase 2 work limits (Capitol Ave, Prospect Ave, Broadway Ave) will be maintained at all times. If the Contractor elects to close any side street/Euclid intersection at half-intersection width, traffic control will be set up in accordance with Standard Plate 634.25. Block closure phases are as follows:

- o Phase 2A – Approx. Sta 18+80 to Sta. 22+11
- o Phase 2B – Approx. Sta. 22+11 to Sta. 26+18
- o Phase 2C – Approx. Sta. 26+18 to Sta. 30+47
- o Phase 2D – Approx. Sta. 30+47 to Sta. 32+70

Phase 2 will consist of removal and installation of storm sewer reinforced concrete pipe/inlets, removal and installation of manholes, installation of junction boxes, grading, curb and gutter, sidewalk, city utility work, asphalt concrete resurfacing, and permanent pavement markings. Work will also include tying new storm sewer into the existing storm sewer system in all directions to maintain drainage on the project at all times.

The Contractor will take the following additional considerations into account during Phase 2 operations:

1. Phase 2A will not be worked on concurrently with Phase 1E.
2. Only 2 sub-phases (i.e. 2A and 2B) will be worked on at a time. All surfacing on the first closure will be completed prior to beginning another phase (i.e. 2A is surfaced before 2C is closed to traffic).
3. A detour as detailed on sheet C38 will be established during all full-width closures to divert thru traffic to Garfield Ave.

**MAINLINE PHASE 3A/3B/3C**

Phase 3 will consist of work from approximately Sta. 32+70 to Sta. 61+50 on Euclid Ave. Phase 3A will consist of a block closure from approximately Sta. 32+70 to Sta. 47+00. Phases 3B/3C will consist of two-way traffic from approximately Sta. 47+00 to 61+50, with Phase 3B being the southbound lane closures and Phase 3C being the northbound lane closures. 3A can be worked on concurrently with 3B and 3C.

Utility adjustments on the south side of the Euclid/4<sup>th</sup> St intersection will require a full road closure of Euclid. This closure will be implemented at a time during Phase 3B or 3C where it is suitable to work on the existing utilities south of the intersection. Traffic control will be set up to allow stop-controlled traffic on 4<sup>th</sup> St., and full access to Euclid north of the intersection. This closure will be limited to 3 weeks, and will not take place during school season. See sheet C23 for detailing.

**TABLE OF TRAFFIC CONTROL DEVICES\***

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	NH-CR 0014(185)229	C11	C46

PHASE	FOR TRAFFIC CONTROL DELINEATION AND MARKING (TOTAL APPLICATION ESTIMATES)							
	TEMPORARY RAISED PAVEMENT MARKER (4" YELLOW UNLESS OTHERWISE SPECIFIED)		BALLASTABLE JERSEY BARRIER (EDGE LINE)	TUBULAR MARKER (CENTERLINE) (N.A.B.I.)	TRAFFIC CONTROL DRUM (EDGE LINE/TAPERS) (N.A.B.I.)	TRAFFIC CONTROL MOVABLE CONCRETE BARRIER	TYPE 3 BARRICADE	TRAFFIC CONTROL CANDLESTICK (DELINEATOR) (N.A.B.I.)
	(ft)		(ft)	(each)	(each)	(each)	(each)	(each)
1A	1971 (yellow)	290 (white)	-	44	98	17	8	37
1B	985		-	44	98	12	8	37
1C	842		-	37	65	4	14	37
1D	692		455	15	20	-	9	-
1E	1005		315	22	17	-	9	-
2A/2B/2C/2D	-		-	-	-	-	20	-
3A	2846		-	-	-	-	31	-
3B	2534		1410	51	12	-	17	-
3C	2396		1410	51	12	-	18	-
3 UTIL RELOC	468		-	15	10	-	16	-
4A	3638		1705	79	45	-	14	-
4B	3922		1705	79	45	-	24	-
<b>TOTALS:</b>	<b>21589</b>		<b>7000</b>	<b>437</b>	<b>422</b>	<b>33</b>	<b>188</b>	<b>37</b>

**TABLE OF TEMPORARY PAVEMENT MARKING\*\***

\*\*If the Contractor wishes to restore traffic to a hard surface prior to permanent pavement marking being placed down, temporary marking in the form of raised pavement markers (tabs), tape, or paint will be applied.

Temporary marking paint will only be applied to existing permanent surfacing, temporary surfacing, or any combination of the two. Temporary marking paint will not be applied to new permanent surfacing.

If the Contractor places a temporary surface over the winter months as defined in the Special Provision for "Winter Months Hard Surfacing Requirement", all markings placed on the temporary surface will be temporary marking paint only.

PHASE	FOR PERMANENT PAVEMENT MARKING	
	TEMPORARY PAVEMENT MARKING (4" WHITE)	TEMPORARY PAVEMENT MARKING (4" YELLOW)
	(ft)	(ft)
1A/1B/1C/1D/1E	1262	2631
2A/2B/2C/2D	2607	3462
3A	1942	2813
3B/3C	688	2835
4A/4B	1891	5023
ELIZABETH ST.	201	928
<b>TOTALS:</b>	<b>8591</b>	<b>17692</b>
	<b>26283</b>	

\*S. Pierre St. configuration quantities included in Phase 1A, 1B, and 1C entries.