

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	1	1218	

Plotting Date: 3/6/2026 REV: 9/8/2025 BRC
REV: 3/6/2026 MRM

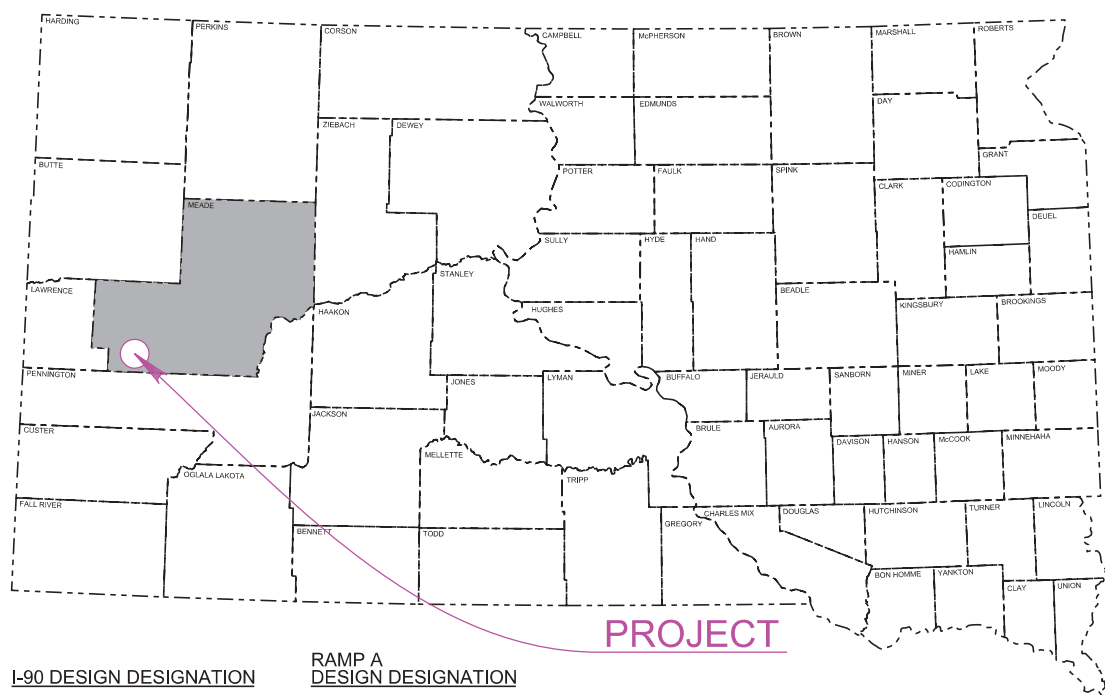
INDEX OF SECTIONS

- Section A: Estimate of Quantities and Environmental Commitments
- Section B: Grading Plans
- Section C: Traffic Control Plans
- Section D: Erosion and Sediment Control Plans
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- Section F: Surfacing Plans
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- Section M: Pavement Marking Plans
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PROJECT IM-CR 0901 (187)44 INTERSTATE 90 MEADE COUNTY

Grading, Structures, Lighting, Permanent Signing,
Pavement Markings, and PCC Surfacing
PCN 034J & 0A9K

Plot Scale - 1:1400



PROJECT

I-90 DESIGN DESIGNATION

AADT (2021)	27,000
AADT (2045)	38,200
DHV	3,275
D	57%
DHV T%	12%
AAADT T%	12%
V	75 mph

RAMP A DESIGN DESIGNATION

AADT (2021)	1,450
AADT (2045)	2,025
DHV	175
D	100%
DHV T%	12%
AAADT T%	12%
V	50 mph

RAMP B DESIGN DESIGNATION

AADT (2021)	3,375
AADT (2045)	4,900
DHV	420
D	100%
DHV T%	12%
AAADT T%	12%
V	50 mph

RAMP C DESIGN DESIGNATION

AADT (2021)	4,075
AADT (2045)	5,750
DHV	495
D	100%
DHV T%	12%
AAADT T%	12%
V	50 mph

RAMP D DESIGN DESIGNATION

AADT (2018)	1,175
AADT (2038)	1,675
DHV	145
D	100%
DHV T%	12%
AAADT T%	12%
V	50 mph

ELK CREEK ROAD DESIGN DESIGNATION

AADT (2021)	6,800
AADT (2045)	9,650
DHV	830
D	55%
DHV T%	14%
AAADT T%	14%
V	40 mph

STURGIS ROAD DESIGN DESIGNATION

AADT (2021)	7,000
AADT (2045)	9,200
DHV	1,035
D	52%
DHV T%	14%
AAADT T%	14%
V	40 mph

SPRING VALLEY ROAD DESIGN DESIGNATION

AADT (2018)	800
AADT (2038)	800
DHV	75
D	56%
DHV T%	5%
AAADT T%	5%
V	35 mph

E/W HILLS VIEW DRIVE DESIGN DESIGNATION

AADT (2018)	430
AADT (2038)	530
DHV	43
D	60%
DHV T%	1%
AAADT T%	1%
V	15 mph

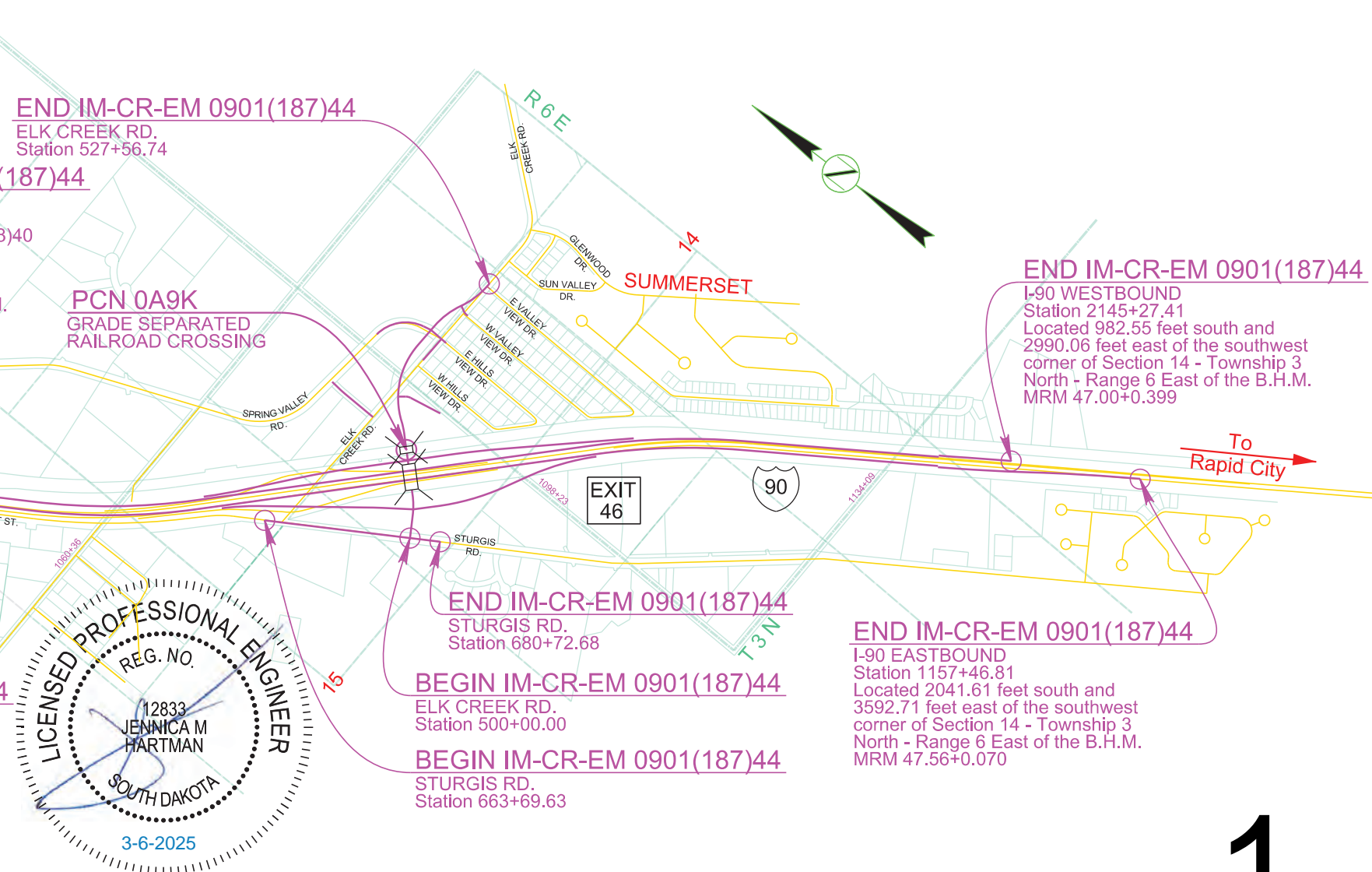
E/W VALLEY VIEW DRIVE DESIGN DESIGNATION

AADT (2018)	540
AADT (2038)	650
DHV	54
D	61%
DHV T%	1%
AAADT T%	1%
V	15 mph

STORM WATER PERMIT

Major Receiving Body of Water: Elk Creek
Area Disturbed: 123 ac
Total Project Area: 124 ac
Approx. Begin Lat, Long: 44°13'26.24"N, 103°22'40.58"W

Gross Length 14,580.33 Feet 2.761 Miles
Length of Exceptions 0.00 Feet 0.000 Miles
Net Length 14,580.33 Feet 2.761 Miles



	Interstate 90		Elk Creek Road		Sturgis Road	
Gross Length	14,580.33 Feet	2.761 Miles	2,756.59 Feet	0.522 Miles	1,656.83 Feet	0.314 Miles
Length of Exceptions	0.00 Feet	0.000 Miles	306.75 Feet	0.058 Miles	0.00 Feet	0.000 Miles
Net Length	14,580.33 Feet	2.761 Miles	2,449.84 Feet	0.464 Miles	1,656.83 Feet	0.314 Miles

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Plotted From - Marcus, Martinez

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS



STATE OF SOUTH DAKOTA

PROJECT

IM-CR-EM 0901(187)44

SHEET

A1

TOTAL SHEETS

A9

Plotting Date: 3/6/2026

Rev: 9/25/2025 BRC
Rev: 3/06/2026 MRM

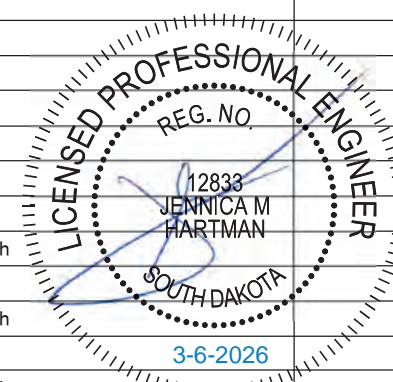
Section B - Grading MEAD034J

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	136	Each
009E3225	Reestablish Public Land Survey System Corner	2	Each
009E3230	Grade Staking	16,527	Mile
009E3245	Final Cross Section Survey	7.751	Mile
009E3250	Miscellaneous Staking	7.751	Mile
009E3280	Slope Staking	7.751	Mile
009E3290	Structure Staking	7	Each
009E3301	Engineer Directed Surveying/Staking	100.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	56	Each
100E0100	Clearing	Lump Sum	LS
110E0400	Remove Drop Inlet	12	Each
110E0600	Remove Fence	9,851	Ft
110E0605	Remove Chain Link Fence	24	Ft
110E0655	Remove Interim Crossover Closure	224	Ft
110E0700	Remove 3 Cable Guardrail	712	Ft
110E0730	Remove Beam Guardrail	1,894.0	Ft
110E0745	Remove 3 Cable Guardrail Slip Base Anchor Assembly	4	Each
110E1100	Remove Concrete Pavement	13,951.0	SqYd
110E1160	Remove Concrete Barrier	1,163	Ft
110E6230	Remove W Beam Guardrail for Reset	216.0	Ft
110E7800	Remove Chain Link Fence for Reset	1,727	Ft
110E7802	Remove Fence for Reset	3,009	Ft
120E0010	Unclassified Excavation	519,537	CuYd
120E0300	Borrow Unclassified Excavation	45,400	CuYd
120E0500	Option Borrow Excavation	318,349	CuYd
120E1000	Muck Excavation	1,409	CuYd
120E2000	Undercutting	194,063	CuYd
120E6000	Water for Dust Control	1,000.0	MGal
120E6100	Water for Embankment	10,444.0	MGal
120E7500	Aggregate Column	4,145.2	CuYd
240E0010	Obliterate Old Road	6	Sta
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	2,714.7	Ton
270E0020	Salvage and Stockpile Asphalt Mix Material	15,558.9	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	68,735.5	Ton
270E0110	Salvage and Stockpile Granular Material	27,161.2	Ton
380E3520	6" PCC Approach Pavement	104.0	SqYd
380E4100	10.5" PCC Fillet Section	35.9	SqYd
421E0100	Pipe Culvert Undercut	1,438	CuYd
450E0122	18" RCP Class 2, Furnish	2,414	Ft
450E0130	18" RCP, Install	2,414	Ft
450E0142	24" RCP Class 2, Furnish	1,408	Ft
450E0143	24" RCP Class 3, Furnish	268	Ft
450E0144	24" RCP Class 4, Furnish	162	Ft
450E0150	24" RCP, Install	1,838	Ft
450E0162	30" RCP Class 2, Furnish	1,362	Ft
450E0170	30" RCP, Install	1,362	Ft

450E0182	36" RCP Class 2, Furnish	932	Ft
450E0190	36" RCP, Install	932	Ft
450E0192	42" RCP Class 2, Furnish	52	Ft
450E0200	42" RCP, Install	52	Ft
450E0202	48" RCP Class 2, Furnish	296	Ft
450E0210	48" RCP, Install	296	Ft
450E0222	60" RCP Class 2, Furnish	1,506	Ft
450E0230	60" RCP, Install	1,506	Ft
450E0242	72" RCP Class 2, Furnish	222	Ft
450E0250	72" RCP, Install	222	Ft
450E2008	18" RCP Flared End, Furnish	1	Each
450E2009	18" RCP Flared End, Install	1	Each
450E2016	24" RCP Flared End, Furnish	1	Each
450E2017	24" RCP Flared End, Install	1	Each
450E2028	36" RCP Flared End, Furnish	1	Each
450E2029	36" RCP Flared End, Install	1	Each
450E2036	48" RCP Flared End, Furnish	1	Each
450E2037	48" RCP Flared End, Install	1	Each
450E2052	72" RCP Flared End, Furnish	1	Each
450E2053	72" RCP Flared End, Install	1	Each
450E2200	24" RCP Sloped End, Furnish	4	Each
450E2201	24" RCP Sloped End, Install	4	Each
450E2216	48" RCP Sloped End, Furnish	2	Each
450E2217	48" RCP Sloped End, Install	2	Each
450E2304	18" RCP Safety End, Furnish	2	Each
450E2307	18" RCP Safety End, Install	2	Each
450E2308	24" RCP Safety End, Furnish	3	Each
450E2311	24" RCP Safety End, Install	3	Each
450E3012	24" RCP Arch Class 2, Furnish	82	Ft
450E3020	24" RCP Arch, Install	82	Ft
450E3032	36" RCP Arch Class 2, Furnish	708	Ft
450E3040	36" RCP Arch, Install	708	Ft
450E3072	60" RCP Arch Class 2, Furnish	106	Ft
450E3080	60" RCP Arch, Install	106	Ft
450E4504	24" RCP Arch Flared End, Furnish	2	Each
450E4505	24" RCP Arch Flared End, Install	2	Each
450E4512	36" RCP Arch Flared End, Furnish	6	Each
450E4513	36" RCP Arch Flared End, Install	6	Each
450E4607	36" RCP Arch Sloped End, Install	12	Each
450E4622	36" RCP Arch Sloped End with Bars, Furnish	12	Each
450E4739	12" CMP 16 Gauge, Furnish	84	Ft
450E4740	12" CMP, Install	84	Ft
450E4759	18" CMP 16 Gauge, Furnish	108	Ft
450E4760	18" CMP, Install	108	Ft
450E4768	24" CMP 14 Gauge, Furnish	134	Ft
450E4770	24" CMP, Install	134	Ft
450E5015	24" CMP Elbow, Furnish	2	Each
450E5016	24" CMP Elbow, Install	2	Each
450E5203	12" CMP Flared End, Furnish	4	Each
450E5204	12" CMP Flared End, Install	4	Each
450E5211	18" CMP Flared End, Furnish	2	Each
450E5212	18" CMP Flared End, Install	2	Each
450E5406	18" CMP Safety End, Furnish	2	Each

INDEX OF SHEETS	
A1 to A4	Estimate of Quantities for Sections B, C, D, E, F, L, M, and S
A5 to A9	Environmental Commitments

450E5407	18" CMP Safety End, Install	2	Each
450E5410	24" CMP Safety End, Furnish	1	Each
450E5411	24" CMP Safety End, Install	1	Each
450E8014	24" RCP to CMP Transition, Furnish	1	Each
450E8015	24" Pipe Transition, Install	1	Each
451E0522	12" PVC Pipe	320	Ft
451E0528	18" PVC Pipe	630	Ft
451E6080	Adjust Water Valve Box	1	Each
462E0100	Class M6 Concrete	147.3	CuYd
464E0100	Controlled Density Fill	349.9	CuYd
480E0100	Reinforcing Steel	22,873	Lb
600E0300	Type III Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	1,742	Ft
620E0510	Type 1 Temporary Fence	244	Ft
620E0520	Type 2 Temporary Fence	4,825	Ft
620E1020	2 Post Panel	60	Each
620E1030	3 Post Panel	9	Each
620E2020	20' Tubular Gate	1	Each
620E4100	Reset Fence	3,009	Ft
621E0160	6' Chain Link Fence with Tension Wired Top	19,434	Ft
621E0520	Reset Chain Link Fence	1,727	Ft
629E0110	High Tension 4 Cable Guardrail	1,065	Ft
629E0290	High Tension Cable Guardrail Anchor Assembly	10	Each
* 629E1107	Furnish High Tension Cable Guardrail Post	50	Each
* 629E1109	Furnish High Tension Cable Guardrail Post and Sleeve	50	Each
630E0500	Type 1 MGS	200.0	Ft
630E1500	Type 1 Guardrail Transition	2	Each
630E1510	Type 3 Guardrail Transition	8	Each
630E2005	W Beam Guardrail to MGS Transition	1	Each
630E2017	MGS MASH Flared End Terminal	5	Each
630E2018	MGS MASH Tangent End Terminal	6	Each
630E5140	Reset W Beam Guardrail with Wood Posts	216.0	Ft
650E0070	Type B67 Concrete Curb and Gutter	5,062	Ft
650E0105	Type B610.5 Concrete Curb and Gutter	1,063	Ft
650E3060	Type B6 Concrete Curb	361	Ft
650E4670	Type P7 Concrete Gutter	36	Ft
650E4705	Type P10.5 Concrete Gutter	48	Ft
651E0060	6" Concrete Sidewalk	25,441	SqFt
651E7000	Type 1 Detectable Warnings	433	SqFt
670E0200	Type A Frame and Grate	5	Each
670E1200	Type B Frame and Grate Assembly	27	Each
670E2200	Type C Frame and Grate	2	Each
670E4205	Type M Frame and Grate Assembly	9	Each
670E5202	Special Frame and Grate	1	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	2	Each
670E5400	Precast Drop Inlet Collar	32	Each
671E3072	72" Manhole Base and Barrel Section	1	Each



Plot Scale - 1:200

Plotted From - Marcus.Martinez

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ESTIMATE OF QUANTITIES

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	A2	A9

Plotting Date: 4/8/2026 Rev: 9/25/2025 BRC Rev: 3/06/2026 MRM Rev: 3/11/2026 MRM Rev: 3/25/2026 BRC Rev: 4/8/2026 BRC

Section B - Grading (Continued)

671E4548	48" Manhole Cone Section	17.0	Ft
671E5072	72" Manhole Cover Slab	1	Each
671E5504	4" Adjusting Ring for Manhole	1	Each
671E6010	Type A10 Manhole Frame and Lid	6	Each
700E0210	Class B Riprap	471.6	Ton
831E0110	Type B Drainage Fabric	1,704	SqYd
900E0010	Refurbish Single Mailbox	4	Each
900E0012	Refurbish Double Mailbox	1	Each
900E1080	Orange Plastic Safety Fence	1,200	Ft
900E1150	Right of Way Marker	39	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

* - Denotes Non-Participating

Section B - Grading MEAD0A9K

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3290	Structure Staking	4	Each
120E0500	Option Borrow Excavation	206,401	CuYd
629E0110	High Tension 4 Cable Guardrail	2,958	Ft
629E0290	High Tension Cable Guardrail Anchor Assembly	8	Each
630E0500	Type 1 MGS	100.0	Ft
630E1500	Type 1 Guardrail Transition	6	Each
630E2017	MGS MASH Flared End Terminal	1	Each
630E2018	MGS MASH Tangent End Terminal	3	Each
630E2065	MGS Trailing End Terminal	2	Each

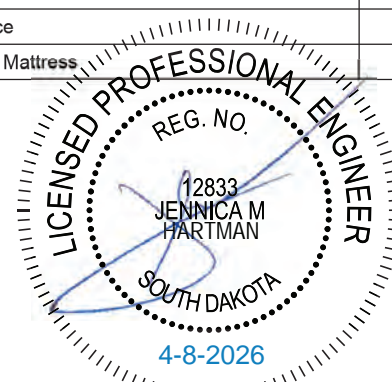
Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0030	Maintenance of Traffic Diversion(s)	Lump Sum	LS
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
634E0010	Flagging	5,000.0	Hour
634E0020	Pilot Car	1,000.0	Hour
634E0110	Traffic Control Signs	3,167.8	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	51	Each
634E0330	Temporary Raised Pavement Markers	10,400	Ft
634E0380	Tubular Marker	399	Each
634E0390	Replace Tubular Marker	20	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	462	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	46,268	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	576	Ft
634E0640	Temporary Pavement Marking	40,802	Ft
634E0700	Traffic Control Movable Concrete Barrier	462	Each

634E0705	Remove and Reset Traffic Control Movable Concrete Barrier	885	Each
634E0750	Temporary Concrete Barrier End Protection	12	Each
634E0755	Remove and Reset Temporary Concrete Barrier End Protection	30	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	5	Each
634E1002	Detour and Restriction Signing	837.4	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	4	Each
634E1240	Queue Detection System	20	Each

Section D - Erosion Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	57.0	CuYd
110E1693	Remove Erosion Control Wattle	5,058	Ft
110E1695	Remove Sediment Filter Bag	2,280	Ft
110E1700	Remove Silt Fence	3,586	Ft
230E0010	Placing Topsoil	57,724	CuYd
230E0020	Contractor Furnished Topsoil	1,135	CuYd
730E0100	Cover Crop Seeding	20.0	Bu
730E0200	Type A Permanent Seed Mixture	1,242	Lb
730E0210	Type F Permanent Seed Mixture	468	Lb
731E0200	Fertilizing	60.00	Ton
732E0100	Mulching	88.0	Ton
734E0044	Soil Stabilizer	87.0	Acre
734E0101	Type 1 Erosion Control Blanket	80,121	SqYd
734E0103	Type 3 Erosion Control Blanket	686	SqYd
734E0132	Type 2 Turf Reinforcement Mat	325.0	SqYd
734E0133	Type 3 Turf Reinforcement Mat	3,775.0	SqYd
734E0140	Erosion Bale	500	Each
734E0154	12" Diameter Erosion Control Wattle	22,405	Ft
734E0165	Remove and Reset Erosion Control Wattle	5,058	Ft
734E0180	Sediment Filter Bag	2,280	Ft
734E0325	Surface Roughening	22.8	Acre
734E0510	Shaping for Erosion Control Blanket	23,982	Ft
734E0602	Low Flow Silt Fence	14,658	Ft
734E0604	High Flow Silt Fence	2,760	Ft
734E0610	Mucking Silt Fence	996	CuYd
734E0620	Repair Silt Fence	3,586	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	36	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	16	Ft
734E5000	Dewatering	100	Hour
734E5010	Sweeping	730	Hour
900E1320	Construction Entrance	8	Each
900E5147	Articulated Concrete Mattress	1,232.0	SqYd



Section E - Structure 47-091-555 - Alternate A -

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	71	CuYd
421E0200	Box Culvert Undercut	152	CuYd
460E0120	Class A45 Concrete, Box Culvert	206.6	CuYd
480E0100	Reinforcing Steel	30,418	Lb
700E0210	Class B Riprap	20.5	Ton
831E0110	Type B Drainage Fabric	31	SqYd

Section E - Structure 47-091-555 - Alternate B -

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	68	CuYd
421E0200	Box Culvert Undercut	144	CuYd
560E0074	7'x6' Precast Concrete Box Culvert, Furnish	270.0	Ft
560E0075	7'x6' Precast Concrete Box Culvert, Install	270.0	Ft
560E1074	7'x6' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1075	7'x6' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	22.2	Ton
831E0110	Type B Drainage Fabric	33	SqYd

Section E - Structure 47-092-556

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	258	CuYd
421E0200	Box Culvert Undercut	817	CuYd
460E0120	Class A45 Concrete, Box Culvert	635.2	CuYd
480E0100	Reinforcing Steel	106,268	Lb
700E0210	Class B Riprap	53.4	Ton
831E0110	Type B Drainage Fabric	72	SqYd
831E0300	Reinforcement Fabric (MSE)	1,179	SqYd

Section E - Structure 47-093-557

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	248	CuYd
421E0200	Box Culvert Undercut	374	CuYd
464E0100	Controlled Density Fill	44.8	CuYd
560E0130	10'x4' Precast Concrete Box Culvert, Furnish	244.0	Ft
560E0131	10'x4' Precast Concrete Box Culvert, Install	244.0	Ft
560E1130	10'x4' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1131	10'x4' Precast Concrete Box Culvert End Section, Install	2	Each
560E2112	2-10'x4' Precast Concrete Box Culvert, Furnish	244.0	Ft
560E2113	2-10'x4' Precast Concrete Box Culvert, Install	244.0	Ft
560E3112	2-10'x4' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E3113	2-10'x4' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	143.7	Ton
831E0110	Type B Drainage Fabric	152	SqYd

Plot Scale - 1:200

Plotted From - Bayley Colemer

File - ...Section_A-EstimateofQuantities.dgn

ESTIMATE OF QUANTITIES FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	A3	A9

Plotting Date: 3/6/2026

Rev: 9/25/2025 BRC
Rev: 9/30/2025 MRM
Rev: 3/06/2026 MRM

Section E - Structure 47-094-559 - Alternate A -

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	74	CuYd
421E0200	Box Culvert Undercut	146	CuYd
460E0120	Class A45 Concrete, Box Culvert	196.6	CuYd
480E0100	Reinforcing Steel	30,421	Lb
700E0210	Class B Riprap	22.2	Ton
831E0110	Type B Drainage Fabric	33	SqYd

Section E - Structure 47-094-559 - Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	68	CuYd
421E0200	Box Culvert Undercut	138	CuYd
560E0092	8'x6' Precast Concrete Box Culvert, Furnish	236.0	Ft
560E0093	8'x6' Precast Concrete Box Culvert, Install	236.0	Ft
560E1092	8'x6' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1093	8'x6' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	24.0	Ton
831E0110	Type B Drainage Fabric	35	SqYd

Section E - Structure 47-098-564

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	1,598.7	SqYd
120E7000	Select Granular Backfill	49.0	Ton
250E0030	Incidental Work, Structure	Lump Sum	LS
260E1010	Base Course	1,641.7	Ton
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	135.0	Ft
420E0100	Structure Excavation, Bridge	307	CuYd
430E0200	Bridge End Embankment	1,705	CuYd
430E0300	Granular Bridge End Backfill	210.1	CuYd
430E0510	Approach Slab Underdrain Excavation	4.3	CuYd
430E0700	Precast Concrete Headwall for Drain	2	Each
460E0028	Class A45 Low Shrinkage Concrete, Bridge Deck	519.3	CuYd
460E0050	Class A45 Concrete, Bridge	376.3	CuYd
460E0150	Concrete Approach Slab for Bridge	302.3	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	108.7	SqYd
460E0380	Install Dowel in Concrete	208	Each
462E0100	Class M6 Concrete	87.1	CuYd
470E0120	Steel Pedestrian Railing on Sidewalk	464.0	Ft
480E0100	Reinforcing Steel	54,875	Lb
480E0200	Epoxy Coated Reinforcing Steel	3,636	Lb
480E0300	Stainless Reinforcing Steel	117,963	Lb
480E0514	No. 14 Rebar Splice	78	Each
510E0300	Preboring Pile	120	Ft
510E3521	HP 14x73 Steel Test Pile, Furnish and Drive	195	Ft
510E3525	HP 14x73 Steel Bearing Pile, Furnish and Drive	3,180	Ft
560E8081	81" Minnesota Shape Prestressed Concrete Beam	1,916	Ft

635E8030	3" Rigid Galvanized Steel Conduit	243	Ft
680E0040	4" Underdrain Pipe	105	Ft
680E2500	Porous Backfill	8.1	Ton
734E2022	Bridge Berm Slope Protection, Quarried Aggregate	290.7	SqYd
831E0100	Type A Drainage Fabric	291	SqYd
831E1010	Geogrid Reinforcement	1,043	SqYd
831E1030	Perforated Geocell	1,271	SqFt

Section E - Structure 47-104-570 - Alternate A -

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	108	CuYd
421E0200	Box Culvert Undercut	179	CuYd
460E0120	Class A45 Concrete, Box Culvert	298.0	CuYd
480E0100	Reinforcing Steel	43,644	Lb
700E0210	Class B Riprap	27.4	Ton
831E0110	Type B Drainage Fabric	39	SqYd

Section E - Structure 47-104-570 - Alternate B -

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	81	CuYd
421E0200	Box Culvert Undercut	148	CuYd
560E0166	11'x10' Precast Concrete Box Culvert, Furnish	190.0	Ft
560E0167	11'x10' Precast Concrete Box Culvert, Install	190.0	Ft
560E1166	11'x10' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1167	11'x10' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	29.1	Ton
831E0110	Type B Drainage Fabric	41	SqYd

Section E - Structure 47-106-572

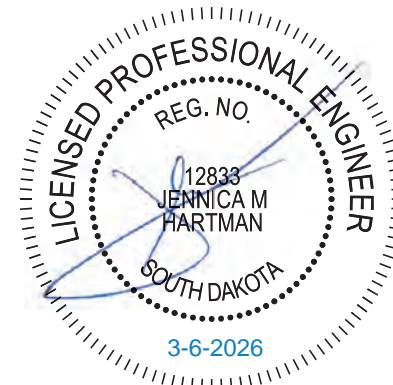
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	380	CuYd
421E0200	Box Culvert Undercut	473	CuYd
460E0120	Class A45 Concrete, Box Culvert	841.4	CuYd
480E0100	Reinforcing Steel	122,265	Lb
700E0210	Class B Riprap	86.3	Ton
831E0110	Type B Drainage Fabric	109	SqYd

Section E - Structure Miscellaneous

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
460E0300	Breakout Structural Concrete	0.8	CuYd
462E0100	Class M6 Concrete	72.9	CuYd
480E0100	Reinforcing Steel	12,081	Lb
480E0200	Epoxy Coated Reinforcing Steel	670	Lb
628E1000	Straight Concrete Barrier	1,223	Ft
628E1300	Straight Glare Screen for Concrete Barrier	1,223	Ft
670E4205	Type M Frame and Grate Assembly	8	Each
670E4325	Barrier Drop Inlet Double Unit Frame and Grate Assembly	10	Each

Section E - Structure 47-099-564 MEAD0A9K

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	427.1	SqYd
120E7000	Select Granular Backfill	32.4	Ton
260E1010	Base Course	1,485.4	Ton
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	152.0	Ft
420E0100	Structure Excavation, Bridge	35	CuYd
430E0200	Bridge End Embankment	733	CuYd
430E0300	Granular Bridge End Backfill	139.9	CuYd
460E0028	Class A45 Low Shrinkage Concrete, Bridge Deck	168.1	CuYd
460E0050	Class A45 Concrete, Bridge	35.4	CuYd
460E0150	Concrete Approach Slab for Bridge	270.3	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	80.8	SqYd
460E0380	Install Dowel in Concrete	87	Each
462E0100	Class M6 Concrete	32.5	CuYd
470E0120	Steel Pedestrian Railing on Sidewalk	112.0	Ft
480E0100	Reinforcing Steel	9,096	Lb
480E0200	Epoxy Coated Reinforcing Steel	2,554	Lb
480E0300	Stainless Reinforcing Steel	26,760	Lb
510E3401	HP 12x53 Steel Test Pile, Furnish and Drive	135	Ft
510E3405	HP 12x53 Steel Bearing Pile, Furnish and Drive	1,000	Ft
560E8036	36" Minnesota Shape Prestressed Concrete Beam	436	Ft
831E1010	Geogrid Reinforcement	1,752	SqYd
831E1030	Perforated Geocell	922	SqFt



Plot Scale - 1:200

Plotted From - Marcus, Martinez

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ESTIMATE OF QUANTITIES FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	A4	A9

Plotting Date: 3/11/2026

Rev: 9/25/2025 BRC
Rev: 9/30/2025 MRM
Rev: 3/06/2026 MRM
Rev: 3/11/2026 MRM

Section E - Structure Miscellaneous MEAD0A9K

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0300	Structure Excavation, Retaining Wall	1,681	CuYd
420E1000	Foundation Preparation, Retaining Wall	2,734	CuYd
430E0700	Precast Concrete Headwall for Drain	3	Each
530E0420	MSE Large Panel Wall, Furnish	26,699	SqFt
530E0422	MSE Large Panel Wall, Install	26,699	SqFt
530E0450	Precast Modular Stem Wall, Furnish	44,560	SqFt
530E0452	Precast Modular Stem Wall, Install	44,560	SqFt
530E0702	Granular Backfill for MSE Large Panel Wall	52,357.0	CuYd
650E2000	Concrete Barrier Curb and Gutter	434	Ft
650E2001	Concrete Barrier Curb and Gutter End Section	28	Ft
650E4060	Type C6 Concrete Gutter	3,644	Ft
680E0040	4" Underdrain Pipe	477	Ft
680E0060	6" Underdrain Pipe	5,049	Ft
831E1010	Geogrid Reinforcement	832	SqYd

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E1100	Remove Concrete Pavement	80,801.4	SqYd
120E6200	Water for Granular Material	1,534.3	MGal
210E2000	Shoulder Shaping	21.000	Mile
260E1010	Base Course	6,672.0	Ton
260E1030	Base Course, Salvaged	68,735.5	Ton
260E2010	Gravel Cushion	53,788.4	Ton
260E2030	Gravel Cushion, Salvaged	43,553.6	Ton
260E2080	Gravel Cushion, Salvaged, State Furnished	10,600.0	Ton
260E6000	Granular Material, Furnish	8,196.2	Ton
270E0220	Blend and Stockpile Granular Material	16,392.4	Ton
320E0005	PG 58-34 Asphalt Binder	1,473.8	Ton
320E1070	Class HR Asphalt Concrete	24,542.4	Ton
320E1200	Asphalt Concrete Composite	192.8	Ton
320E3000	Compaction Sample	54	Each
330E0010	MC-70 Asphalt for Prime	96.0	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	49.5	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	14.5	Ton
330E1000	Blotting Sand for Prime	480.9	Ton
330E2000	Sand for Flush Seal	317.5	Ton
380E0100	10.5" Nonreinforced PCC Pavement	12,873.7	SqYd
380E0150	13" Nonreinforced PCC Pavement	82,691.8	SqYd
380E0800	PCC Shoulder Pavement	36,745.8	SqYd
380E6000	Dowel Bar	41,466	Each
380E6110	Insert Steel Bar in PCC Pavement	1,617	Each

Section L - Signal & Lighting

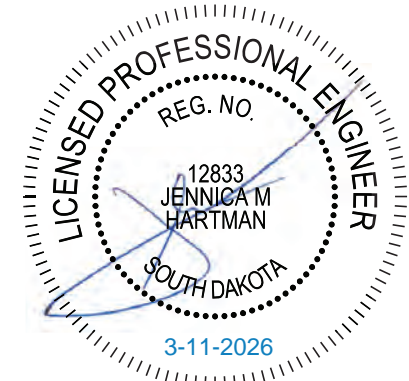
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1510	Remove Luminaire Pole	6	Each
110E1540	Remove Luminaire Pole Footing	9	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	29	Each
635E0150	Breakaway Base Luminaire Pole with Twin Arms, 50' Mounting Height	4	Each
635E0630	Fixed Base Luminaire Pole with Arm, 30' Mounting Height	15	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	52	Each
635E5020	2' Diameter Footing	360.0	Ft
635E5301	Type 1 Electrical Junction Box	12	Each
635E5400	Electrical Service Cabinet	2	Each
635E7500	Remove and Reset Luminaire Pole	3	Each
635E8120	2" Rigid Conduit, Schedule 40	12,100	Ft
635E8220	2" Rigid Conduit, Schedule 80	1,190	Ft
635E8750	4/4/4/4 ALU Quadraplex	1,750	Ft
635E9014	1/C #4 AWG Copper Wire	16,855	Ft
635E9016	1/C #6 AWG Copper Wire	17,560	Ft
635E9018	1/C #8 AWG Copper Wire	6,740	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	2,745	Ft

Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	34,560	Ft
633E0019	Cold Applied Plastic Pavement Marking, 4" with Contrast Border	9,760	Ft
633E0025	Cold Applied Plastic Pavement Marking, 12"	3,480	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	262	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	35	Each
633E0225	Preformed Thermoplastic Pavement Marking, 24"	412	Ft
633E1201	High Build Waterborne Pavement Marking Paint with Reflective Elements, White	132	Gal
633E1206	High Build Waterborne Pavement Marking Paint with Reflective Elements, Yellow	177	Gal
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	34,560	Ft
633E5004	Grooving for Cold Applied Plastic Pavement Marking, 4" with Contrast Border	9,760	Ft
633E5010	Grooving for Cold Applied Plastic Pavement Marking, 12"	3,480	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	674	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	35	Each
633E5050	Surface Preparation for Pavement Marking	6,610	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	51,970	Ft

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	96	Each
110E7150	Remove Sign for Reset	53	Each
632E0014	1.75' Diameter Breakaway Support Concrete Footing	16.0	Ft
632E0016	2' Diameter Breakaway Support Concrete Footing	198.0	Ft
632E1225	W6x12 Steel Post	49.2	Ft
632E1265	W10x33 Steel Post	396.1	Ft
632E1320	2.0"x2.0" Perforated Tube Post	645.5	Ft
632E1340	2.5"x2.5" Perforated Tube Post	314.0	Ft
632E2000	4"x4" Amber Delineator with 1.12 Lb/Ft Post	8	Each
632E2004	4"x8" Amber Delineator with 1.12 Lb/Ft Post	10	Each
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	58	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	147	Each
632E2203	4" Tubular Amber Delineator Reflector	16	Each
632E2207	4" Tubular White Delineator Reflector	28	Each
632E2220	Guardrail Delineator	68	Each
632E2510	Type 2 Object Marker Back to Back	25	Each
632E2520	Type 2 Object Marker	56	Each
632E3005	Aluminum Overlay Sign, Nonremovable Copy Super/Very High Intensity	1,036.5	SqFt
632E3113	Extruded Aluminum Sign, Nonremovable Copy High Intensity	156.0	SqFt
632E3115	Extruded Aluminum Sign, Nonremovable Copy Super/Very High Intensity	273.5	SqFt
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	254.4	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	326.5	SqFt
632E3500	Reset Sign	53	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS



Plot Scale - 1:200

Plotted From - MarcusMartinez

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ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/doing-business/environmental/about-environmental/>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT A: AQUATIC RESOURCES

COMMITMENT A1: WETLANDS

All efforts to avoid and minimize wetland impacts from the project have resulted in approximately 0.496 acre(s) of wetlands (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans/the plans/the plans for location and boundaries of the impacted wetlands.

Table of Impacted Wetlands

Wetland No.	Station	Permanent Impact (Acres)	Temporary Impact (Acres)	Total Impact (Acres)
1	1027+79 to 1029+52	0.116	0.027	0.143
2	1028+42 to 1034+55	0.082	0.105	0.187
3	1031+95 to 1033+98	0.057	0	0.057
4	1052+74 to 1053+55	0.037	0.044	0.081
5	1053+07 to 1053+44	0.028	0	0.028

Action Taken/Required:

Mitigation is required in accordance with the "Statewide Finding Regarding Wetlands for South Dakota Federal-Aid Highway Projects (February 2018)". Replacement of 0.166 acre(s) of permanent wetland impacts will be completed through another wetland mitigation opportunity in a manner which considers FHWA's program-wide goal of 'net gain' of wetlands through enhancement, creation, and preservation.

Temporary impacts identified in the Table of Impacted Wetlands will not be mitigated as original contours and elevations will be re-established as designated in Section B – Grading Plans/the plans/the plans. Prior to initiating temporary work in wetlands, the Contractor will submit a plan to the Project Engineer in accordance with Section 7.18 of the Specifications.

The Contractor will notify the Project Engineer if additional easement is needed to complete work adjacent to any wetland. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any wetlands beyond the work limits and easements shown in the plans.

SDDOT will acquire 0.33 credits from the SDDOT BCB1 wetland mitigation bank site or In-Lieu Fee program to mitigate permanent impacts.

Temporary impacts identified in the Table of Impacted Wetlands will not be mitigated as original contours and elevations will be re-established as designated in Section B – Grading Plans/the plans. Prior to initiating temporary work in wetlands, the Contractor will submit a plan to the Project Engineer in accordance with Section 7.18 of the Specifications.

COMMITMENT A2: STREAMS

All efforts to avoid and minimize stream impacts from the project have resulted in approximately 0.04 acre(s) of stream (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans/the plans/the plans for location and boundaries of the impacted streams.

Table of Impacted Streams

Stream Name	Station	Permanent Impact (Acres)	Temporary Impact (Acres)	Total Impact (Acres)
Intermittent Stream 1a	1029+74 to 1031+62	0.0003	0.0036	0.0039
Intermittent Stream 1b	1029+76 to 1031+69	0.0081	0	0.0081
Intermittent Stream 2	1031+72 to 1034+38	0.0145	0	0.0145
Intermittent Stream 3	1034+31 to 1034+41	0.0039	0.0007	0.0046
Intermittent Stream 4	1053+06 to 1053+25	0.0026	0.0009	0.0035
Perennial Stream 1	1031+47 to 1031+79	0.007	0.0014	0.0084

Action Taken/Required:

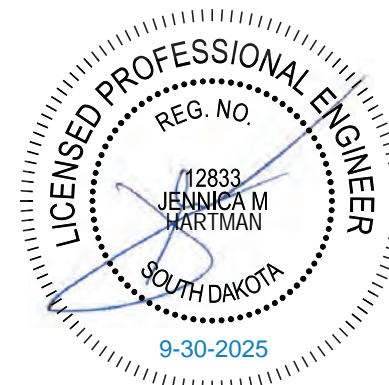
It has been determined that project impacts do not require mitigation. Temporary impacts identified in the Table of Impacted Streams will not be mitigated as the finished ground under the bridge will be shaped to match the upstream channel and flood plain and the existing low water channel will be maintained as near as practical to the existing location as designated in Section B – Grading Plans/the plans.

The Contractor will notify the Project Engineer if additional easement is needed to complete work adjacent to any stream. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any streams beyond the work limits and easements shown in the plans.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B5: NORTHERN LONG-EARED AND TRI-COLORED BAT

This project is within the range of suitable habitat for the Northern Long-Eared Bat (NLEB) and/ or the Tri-Colored Bat (TCB) and project work will avoid conflicts with NLEB and/or TCB roosting habitat.



COMMITMENT B5: NORTHERN LONG-EARED AND TRI-COLORED BAT CONT.

Action Taken/Required:

Project activities that include tree removal, structure work, and/or work within one-quarter mile of a known hibernacula or 150 feet of a known maternity roost tree, or suitable habitat should not occur within the location(s) listed below during the NLEB and/or TCB seasonal work restriction timeframe without approval from the SDDOT Environmental Office.

Tree removal will occur between November 1st and April 14th if the project occurs on the South Dakota Plains or October 1st and April 30th if the project occurs in the Black Hills.

Federally listed species for the project area were identified through the USFWS IPaC. Habitat for northern long-eared bats is present within the foothills west of the project, but is lacking within the proposed areas of construction. The USFWS determination key for programmatic consultation for transportation projects affecting northern long-eared bat or Indiana bat indicates that the project "may affect, but is not likely to adversely affect" northern long-eared bat due to the replacement of permanent lighting.

The following avoidance, minimization, and mitigation measures are required:

GENERAL AMM 1 – Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

LIGHTING AMM 1 – Direct temporary lighting away from suitable habitat during the active season.

LIGHTING AMM 2 – When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

COMMITMENT C: WATER SOURCE

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be

drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website:
<https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:
 < <https://sdleastwanted.sd.gov/maps/default.aspx> >

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:
 < <https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04> >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

Little Elk Creek and Stagebarn Canyon Creek are classified as cold water marginal fisheries with a total suspended solids standard of less than 90 mg/L 30-day average, less than 158 mg/L daily maximum.

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

Action Taken/Required:

The Contractor is advised that the South Dakota Surface Water Quality Standards, administered by the South Dakota Department of Agriculture and Natural Resources (DANR), apply to this project. Special construction measures will be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT D2: SURFACE WATER DISCHARGE

The DANR General Permit for Temporary Discharge Activities is required for temporary dewatering and discharges to waters of the state. The effluent limit for total suspended solids will be 90 mg/L 30-day average. The effluent limit applies to discharges to all waters of the state except discharges to waters classified as coldwater permanent fish life propagation waters according to the ARSD 74:51:01:45. For discharges to waters of the state classified as coldwater permanent fish life propagation waters, the effluent limit for total suspended solids will be 53 mg/L daily maximum.

The permittee has the option of completing effluent testing or implementing a pollution prevention plan for compliance with this permit. If the permittee develops a pollution prevention plan instead of total suspended solids sampling, the plan must be developed and implemented prior to discontinuing

total suspended solids sampling. Refer to Section 4.0 of the permit. If any pollutants are suspected of being discharged, a sample must be taken for those parameters listed in Section 3.4 of the permit.

Refer to Commitment D1: Surface Water Quality for stream classification.

Action Taken/Required:

If construction dewatering is required and this project is not required to be covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the Contractor will obtain the General Permit for Temporary Discharge Activities from the DANR Water Quality Program, 605-773-3351.

< https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_TemporaryDischargeNOI2018Fillable.pdf >

If construction dewatering is required and this project is currently covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the contractor will need to submit the dewatering information to the Project Engineer using the following SDDOT Dewatering Info CDX form:

<<https://dot.sd.gov/doing-business/environmental/forms/>>

The Contractor will provide a copy of the approved permit or the submitted dewatering information to the Project Engineer prior to proceeding with any dewatering activities. The approved permit or submitted dewatering information must be kept on-site and as part of the project records.

Effluent monitoring, as a result of dewatering activities, will be summarized for each month and recorded on a separate Discharge Monitoring Report (DMR) and submitted to DANR monthly. Additional information can be found at:

< <https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/swdpermitting/Ereporting.aspx> >

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site. Construction activities constitute 1 acre or more of earth disturbance and/or work in a waterway.



COMMITMENT E: STORM WATER CONT.

Action Taken/Required:

The DANR General Permit for Stormwater Discharges Associated with Construction Activities is required for construction activity disturbing one or more acres of earth and work in a waterway. The SDDOT is the owner of this permit and will submit the NOI to DANR 15 days prior to project start in order to obtain coverage under the General Permit. Work can begin once the DANR letter of approval is received.

The Contractor must adhere to the “Special Provision Regarding Storm Water Discharges to Waters of the State.”

The Contractor will complete the DANR Contractor Authorization Form prior to the pre-construction meeting. The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the permit for this project. Work may not begin on this project until this form is signed and submitted to DANR.

The form can be found at:

< https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAPpendixCCA2023Fillable.pdf >

The Contractor is advised that permit coverage may also be required for off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

Storm Water Pollution Prevention Plan

The Storm Water Pollution Prevention Plan (SWPPP) will be developed prior to the submittal of the NOI and will be implemented for all construction activities for compliance with the permit. The SWPPP must be kept on-site and updated as site conditions change. Erosion control measures and best management practices will be implemented in accordance with the SWPPP.

The DOT 298 Form will be used for site inspections and to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents and retained for a minimum of three years.

The inspection will include disturbed areas of the construction site that have not been finally stabilized, areas used for storage materials, structural control measures, and locations where vehicles enter or exit the site. These areas will be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWPPP will be observed to ensure that they are operating correctly, and sediment is not tracked off the site.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT: < <https://dot.sd.gov/doing-business/environmental/stormwater> >

DANR:< <https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/default.aspx> >

EPA: < <https://www.epa.gov/npdes> >

COMMITMENT G: DEWATERING AND SEDIMENT COLLECTION

The purpose of a dewatering and sediment collection system is to collect turbid stormwater on the project, treat it with flocculants as needed, and capture the sediment that falls out of suspension before the water is discharged into “Waters of the US” or “Waters of the State”. Refer to Commitment D1: Surface Water Quality for stream classification.

Action Taken/Required:

The Contractor will meet the terms of the Temporary Discharge Permit and the Storm Water Permit for Construction Activities.

The Contractor will create a Pollution Prevention Plan (PPP) for dewatering and sediment collection if the Contractor chooses to discharge the water into “Waters of the US” or “Waters of the State”. Refer to the detail sheet OPTIONS FOR DEWATERING AND SEDIMENT COLLECTION in the plans. The PPP must be kept on-site and updated as site conditions change.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

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

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, “No Dumping Allowed”.
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to

project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06. Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.



COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES CONT.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COMMITMENT J: CONSTRUCTION PRACTICES FOR TEMPORARY WORKS IN WATERWAYS OF THE U.S.

The Contractor is advised that special construction measures must be taken to ensure that the waterways of the U.S. are not impacted.

Action Taken/Required:

Excavation will not occur below the ordinary high-water elevation in waterways outside of caissons, cribs, cofferdams, steel piling, or sheeting. The natural streambed will not be disturbed unless specified by the plans and under the observation of the Project Engineer. Refer to the Table of U.S. Waterways to Protect for ordinary high-water elevations. Any structure work over or within the waterway will be constructed according to Section 7.18 C of the Specifications.

All dredged or excavated materials will be placed at a site above the ordinary high-water elevation in a confined area (not classified as a wetland) that is a minimum of 50 feet away from concentrated flows of storm water, drainage courses, and inlets to prevent return of such material to the waterway.

The construction of temporary work platforms, crossings, or berms below the ordinary high-water elevation will be allowed if all material placed below the ordinary high-water elevation consists of Class B or larger riprap.

All temporary caissons, cribs, cofferdams, steel piling, sheeting, work platforms, crossings, and berms will be removed with minimal disturbance to the streambed. Proper construction practices will be used to minimize increases in suspended solids and turbidity in the waterway.

Bridge berms, wing dams, traffic diversions, channel reconstruction, stream diversions, grading, etc. will be constructed in close conformity with the plans to ensure that the hydraulic capacity of the waterway is not changed.

Temporary waterway crossings required for the Contractor's construction operations will be constructed with an adequate drainage structure size and minimum fill height to reduce the potential for upstream flooding. The Contractor will be responsible for sizing the temporary drainage structure for these crossings.

All temporary works in waterways of the US are required to be covered in the Corp of Engineers 404 Permit. At the time of the preconstruction meeting, the Contractor will submit documentation for all temporary works for the purpose of complying with the 404 Permit requirements in accordance with Section 423.3 A of the Specifications.

Table of U.S. Waterways to Protect

Station	Waterway	Ordinary High-Water Elevation
1017+70 EBL	Trib. To Elk Creek	3482.0'
1034+34 EBL	Priest Canyon Creek	3479.7'
1043+12 EBL	Trib. To Priest Canyon Creek	3481.6'
1053+12 EBL	Trib. To Elk Creek	3467.5'
1124+34 EBL	Trib. To Elk Creek	3487.3'
1136+96 EBL	Stagebarn Canyon Creek	3510.85'

Stream channel excavation within "Waters of the US" is subject to USACE regulatory jurisdiction. Stream channel excavation cannot exceed the permitted quantities and/or surface area. The 404 Permit is included in the Special Provisions.

The Contractor will take all precautions necessary to prevent any incidental discharges associated with the excavation and hauling of material from the stream channel. This pertains to any excavation operations such as, foundation, pier, or abutment excavation, channel cleanout, excavation for riprap protection, and removal of any temporary fill associated with construction activities.

COMMITMENT K: LOCATIONAL PERMITS

COMMITMENT K1: RAPID CITY AREA AIR QUALITY CONTROL ZONE

Administrative Rule of South Dakota (ARSD) 74:36:18:03 states that "no state facility or state contractor may engage in any construction activity or continuous operation activity within the Rapid City air quality control zone which may cause fugitive emissions of particulate to be released into the ambient air without first obtaining a permit issued by the board or the secretary."

Construction activity is defined as any temporary activity which involves the removal or alteration of the natural or pre-existing cover of one acre or more of land. One acre of surface area is based on a cumulative area of disturbance to be completed for the entire project. Construction activity will include, but not be limited to, stripping of topsoil, drilling, blasting, excavation, dredging, ditching, grading, street maintenance and repair, or earth moving. It also includes stockpiles, access roads, and disposal areas. An off-site disposal area of excess material will require an additional permit.

Action Taken/Required:

To be considered eligible for authorization to conduct a construction activity under the terms and conditions of this permit, the owner operator must submit

a Notice of Intent (NOI) form. The form must be submitted to the address below at least seven business days prior to the anticipated date of beginning the construction activity.

South Dakota Department of Agriculture and Natural Resources Air Quality Program, 523 East Capitol, Joe Foss Building, Pierre, SD 57501-3181, Phone: 605-773-3151.

The permit requires the Contractor to use reasonably available technology to control fugitive dust emissions. The Contractor is required to use control measures for track out, paved areas, unpaved roads, unpaved parking lots, disturbed areas, and for material handling and storage. The control measures that the Contractor is required to use are listed in the permit.

The Rapid City Air Quality Permit will also need to be completed. The Rapid City Air Quality Permit needs to be renewed annually by the Contractor until construction activities are completed.

The online forms can be found at:<
<https://danr.sd.gov/Environment/AirQuality/PermitForms/Forms/NOIConstruction%2021.docx> >

<https://www.rcgov.org/departments/community-planning-development/air-quality/air-quality-construction-permit-application-357.html>

COMMITMENT L: CONTAMINATED MATERIAL

Contaminated soil and/or known gas stations, undergrounds storage tanks, etc. are located within the project limits. Petroleum contaminated soil is or may be located at the following sites:

Table of Contaminated Material Locations

Description	Station	L / R
Elk Creek Market (101 Pine Street)	1048+45	R
Former Sinclair Station / Phillips 66 / Piedmont 66 (near 15891 Sturgis Rd)	1036+81	R
Impacted Residence (on Spring Valley Rd)	1037+34	L
Big D Oil Company (15003 Sturgis Rd)	1072+92	R



COMMITMENT L: CONTAMINATED MATERIAL CONT.

Action Taken/Required:

The Contractor will give written notice, with a copy to the Area Engineer and DANR, 30 days prior to the start of work. In addition, the Contractor will give written notice to the Engineer 7 days prior to the commencement of the work so the Engineer may notify DANR of the day work will start.

The Contractor will be responsible for having the existing underground utilities located in the construction area. Underground utilities damaged by the Contractor due to negligence will be repaired at the Contractor's expense.

Petroleum contaminated soil may be disposed of at the Rapid City Landfill (phone 605-355-3496) Measurement of "Contaminated Material Excavation" will be in accordance with Section 120.4 of the Specifications. All costs for excavating and transporting the contaminated materials to the disposal site and all fees charged per cubic yard by the disposal site will be incidental to the contract unit price per cubic yard for "Contaminated Material Excavation".

The estimated quantity of "Contaminated Material Excavation" is 100 cubic yards. The quantity of "Contaminated Material Excavation" may vary from the plans. No adjustment will be made to the contract unit price for variations in the quantity of "Contaminated Material Excavation". The estimated quantity of "Contaminated Material Excavation" is provided in Section B – Grading Plans/the plans.

COMMITMENT M: SECTION 4(f)/6(f) RESOURCE

COMMITMENT M1: SECTION 4(f) PROPERTY

A Section 4(f) Evaluation concluded there are no feasible and prudent alternatives to avoiding Section 4(f) property located within the project.

Table of Section 4(f) Property

Station	Section 4(f) Property
300+79 to 304+05	BH & Ft. Pierre Railroad

The locations and boundaries of the site(s) for avoidance are shown in Section B - Grading Plans.

Action Taken/Required:

The Contractor is not permitted to stage equipment or materials within [name of park(s)]. The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.

COMMITMENT N: SECTION 404 PERMIT

The SDDOT has obtained a Section 404 Permit from the USACE for the permanent actions associated with this project.

Action Taken/Required:

The Contractor will comply with all requirements contained in the Section 404 Permit.

The Contractor will also be responsible for obtaining a Section 404 Permit for any dredge, excavation, or fill activities associated with material sources, storage areas, waste sites, and Contractor work sites outside the plan work limits that affect wetlands, floodplains, or waters of the United States.

COMMITMENT Q: ARCHAEOLOGICAL COORDINATION

As a result of a Cultural Resources Survey, historic properties have been identified within and/or adjacent to the project rights-of-way.

The following historic properties have been identified that require avoidance of construction activities:

Table of Historic Properties

Station	Offset (Ft.)	L/R	Environmental Sensitive Site	Action
300+79 to 304+05	147 to 153	R	BH & Ft. Pierre Railroad	Do Not Disturb

The locations and boundaries of the site(s) for avoidance are shown in Section B - Grading Plans.

Action Taken/Required:

If evidence for cultural resources is uncovered during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will consult with the Archaeological Research Center (ARC), the THPO (and/or SHPO if applicable), and FHWA, to determine the appropriate course of action.

All artifacts, features, or other items of interest uncovered by project construction activities will not be displaced unless the landowner and the SHPO consent to it.

Prior to the pre-construction meeting, the Contractor will contact the ARC (Phone: 605-394-1936) to coordinate the installation schedule of orange plastic safety fence around the perimeter of the sensitive site(s) listed in the Table of Historic/Archeological Sites to ensure proper location, quality, and visibility of the orange safety fence. The exact location of the safety fence will be determined later in the field by the ARC representative.

The Contractor will give written notice to the Engineer seven (7) days prior to the commencement of earth disturbing activities near listed sites identified in the Table of Historic/Archeological Site so the Engineer may notify ARC of the day work will start and schedule the installation of orange safety fence. ARC is to be present during earth disturbing activities to monitor the removal of topsoil, ensure avoidance of the fenced sites, and identify any culturally sensitive sites that may be uncovered.

Work within the vicinity of the site(s) will not begin until the safety fence is installed. All costs associated with furnishing and installing the orange safety fence will be incidental to the contract unit price per foot for "Orange Plastic Safety Fence". These identified sites cannot be used for material sources, storage areas, waste sites, and/or any other project related activities outside the plan work limits.

SDDOT will provide monitoring for the site(s) identified in the above table.

Prior to the pre-construction meeting, the Contractor will contact ARC (Phone: 605-394-1936) to be present at the meeting for the purposes of coordinating the monitoring schedule of the site(s) listed in the Table of Historic/Archeological Sites. Work within vicinity of the site(s) will not begin until monitors are present at the site(s).

All costs associated with monitoring will be submitted to the Project Engineer for reimbursement.

Before earth disturbing activities near listed sites occurs, there will be seven (7) days prior notification provided to ARC for scheduling the installation of orange safety fence and/or monitoring at sensitive sites listed in the Table of Culturally Sensitive Sites. ARC and tribal monitor are to be present during earth disturbing activities to monitor the removal of topsoil, ensure avoidance of the fenced sites, and identify any culturally sensitive sites that may be uncovered.

These identified sites cannot be used for material sources, storage areas, waste sites, and/or any other project related activities outside the plan work limits.

COMMITMENT S: FIRE PREVENTION IN THE BLACK HILLS AREA

This project is located within the Black Hills Forest Fire Protection Boundary.

Action Taken/Required:

The Contractor will adhere to the "Special Provision for Fire Plan".

