

STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901(162)14 P 014A(11)8	A1	A9

Plotting Date: 8/28/2015

PLANS FOR PROPOSED
**PROJECT IM 0901(162)14 &
 P 014A(11)8**

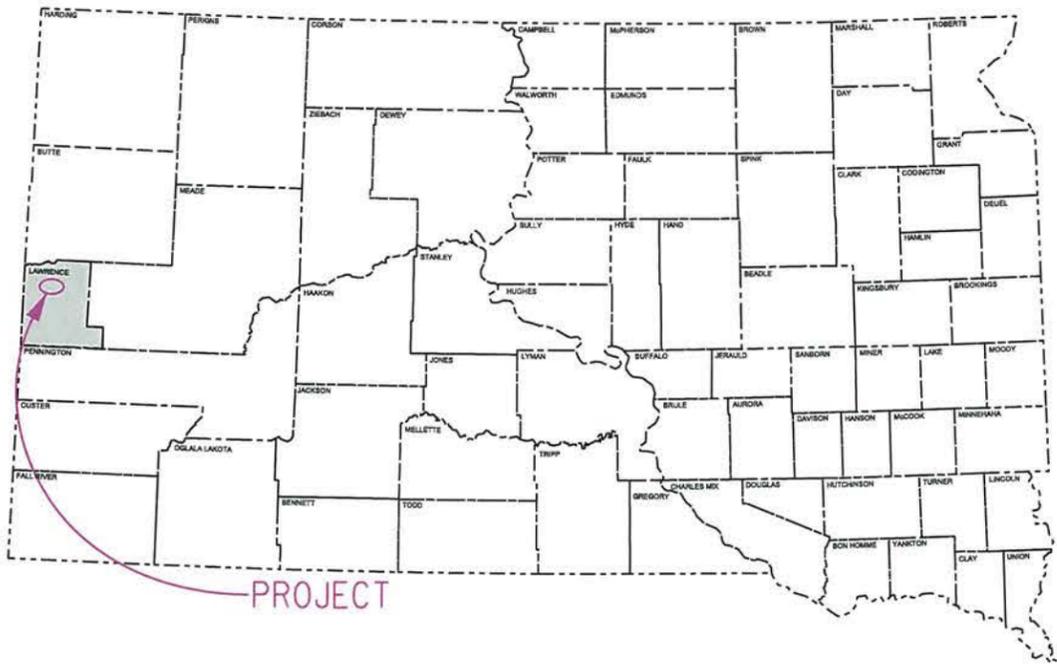
**INTERSTATE 90, 27TH STREET,
 US HWY 14A AND COLORADO BLVD.
 LAWRENCE COUNTY**

GRADING, CURB & GUTTER, STORM SEWER, AC & PCC PAVEMENT, STRUCTURES
 PAVEMENT MARKING, ROADWAY LIGHTING, LANDSCAPING, SIGNALS AND
 PERMANENT SIGNING

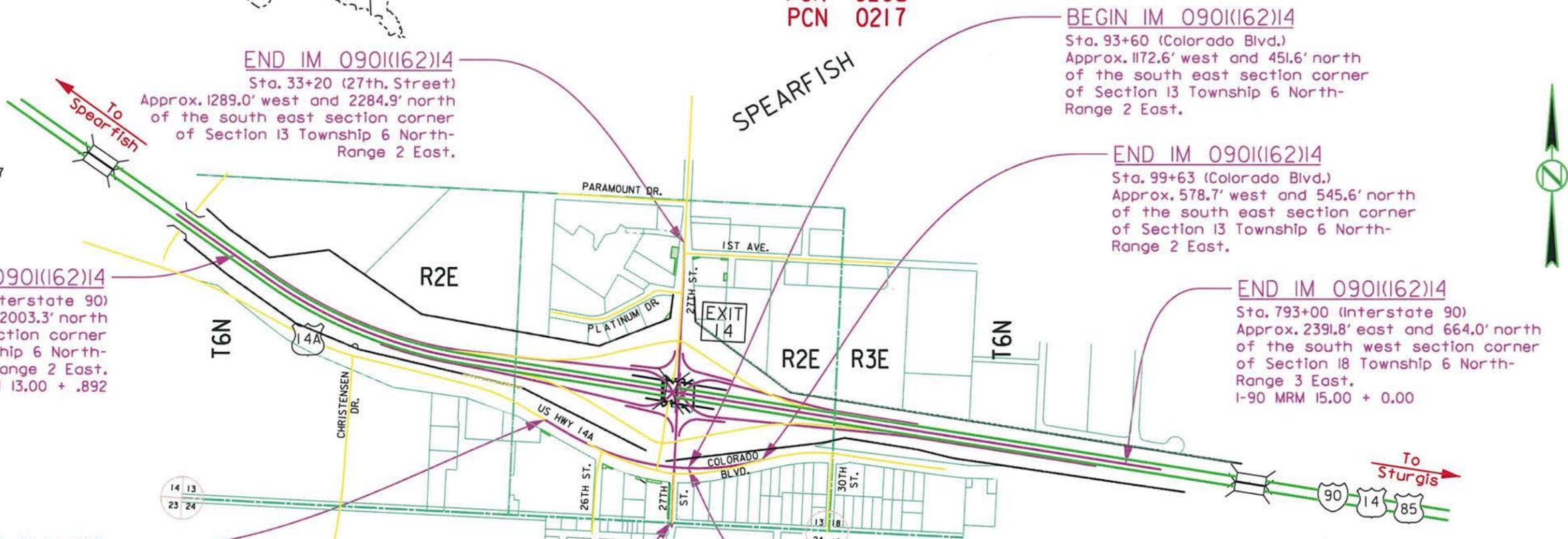
INDEX OF SECTIONS

Section A:	Estimate of Quantities
Section B:	Grading Plans
Section C:	Traffic Control Plans
Section D:	Erosion and Sediment Control Plans
Section E:	Structure Plans
Section F:	Surfacing Plans
Section L:	Lighting & Signal Plans
Section M:	Pavement Marking Plans
Section S:	Permanent Signing Plans
Section X:	Cross Sections
Section Z:	Pipe Sections

PCN 020U
 PCN 0217



STORM WATER PERMIT
 Major Receiving
 Body of Water: False Bottom Creek
 Area Disturbed: 56 Acres
 Total Project Area: 98 Acres
 Approx. Begin Lat: 44.4792 Long: 103.8267



END IM 0901(162)14
 Sta. 33+20 (27th Street)
 Approx. 1289.0' west and 2284.9' north
 of the south east section corner
 of Section 13 Township 6 North-
 Range 2 East.

BEGIN IM 0901(162)14
 Sta. 93+60 (Colorado Blvd.)
 Approx. 1172.6' west and 451.6' north
 of the south east section corner
 of Section 13 Township 6 North-
 Range 2 East.

END IM 0901(162)14
 Sta. 99+63 (Colorado Blvd.)
 Approx. 578.7' west and 545.6' north
 of the south east section corner
 of Section 13 Township 6 North-
 Range 2 East.

END IM 0901(162)14
 Sta. 793+00 (Interstate 90)
 Approx. 2391.8' east and 664.0' north
 of the south west section corner
 of Section 18 Township 6 North-
 Range 3 East.
 I-90 MRM 15.00 + 0.00

BEGIN IM 0901(162)14
 Sta. 717+60 (Interstate 90)
 Approx. 345.9' east and 2003.3' north
 of the south west section corner
 of Section 13 Township 6 North-
 Range 2 East.
 I-90 MRM 13.00 + .892

BEGIN P 014A(11)8
 Sta. 81+08 (US Hwy 14A)
 Approx. 2360.9' west and 787.7' north
 of the south east section corner
 of Section 13 Township 6 North-
 Range 2 East.
 US 14A MRM = 8.00 + 0.606

BEGIN IM 0901(162)14
 Sta. 10+48 (27th Street)
 Approx. 1283.5' west and 12.9' north
 of the south east section corner
 of Section 13 Township 6 North-
 Range 2 East.

END P 014A(11)8
 Sta. 93+60 (US Hwy 14A)
 Approx. 1172.6' west and 451.6' north
 of the south east section corner
 of Section 13 Township 6 North-
 Range 2 East.
 US 14A MRM = 8.00 + 0.843

PLOTTED FROM - SOELLNER

FILE ... \SECTION\TITLEA.DGN

DESIGN DESIGNATION

	Mainline	EB Off Ramp	EB On Ramp	WB Off Ramp	WB On Ramp	27th St.	Co. Blvd.	US 14A
ADT (2009)	11750	3945	2160	2295	4075	11192	8604	8604
ADT (2035)	34500	7000	5500	5500	7500	28500	19100	19100
DHV	1175	347	190	201	358	984	757	757
D	65%	100%	100%	100%	100%	56%	50%	50%
T DHV	13%	5%	5%	5%	5%	5%	5%	5%
T ADT	13%	5%	5%	5%	5%	5%	5%	5%
V	75 mph	50 mph	50 mph	50 mph	50 mph	40 mph	45 mph	45 mph

IM 0901(162)14

Mainline	27th Street
GROSS LENGTH 7540 FEET 1.43 MILES	2272 FEET 0.43 MILES
Colorado Blvd.	
603 FEET 0.11 MILES	

P 014A(11)8

US 14A
GROSS LENGTH 1252 FEET 0.24 MILES



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A2	A9

Revised Date: 9/23/2015 AMO

Grading – Section B (IM 0901(162)14)

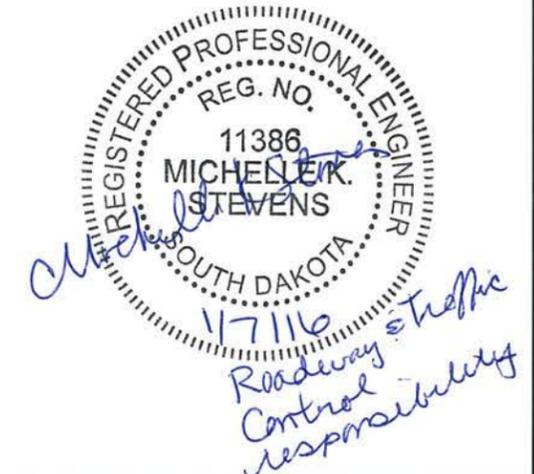
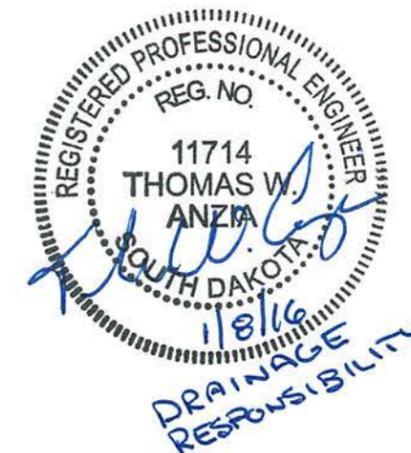
Grading – Section B (IM 0901(162)14) Continued

Grading – Section B (IM 0901(162)14) Continued

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	12.277	Mile
009E3245	Final Cross Section Survey	4.821	Mile
009E3250	Miscellaneous Staking	4.821	Mile
009E3280	Slope Staking	4.821	Mile
009E3290	Structure Staking	3	Each
009E3300	Three Man Survey Crew	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0400	Remove Drop Inlet	7	Each
110E0600	Remove Fence	160	Ft
110E0655	Remove Interim Crossover Closure	600	Ft
110E0700	Remove 3 Cable Guardrail	586	Ft
110E0740	Remove 3 Cable Guardrail Anchor Assembly	4	Each
110E1510	Remove Luminaire Pole	1	Each
110E1515	Remove Luminaire Arm	1	Each
110E6000	Remove 3 Cable Guardrail for Reset	2,120	Ft
110E6010	Remove 3 Cable Guardrail Anchor Assembly for Reset	1	Each
110E7510	Remove Pipe End Section for Reset	6	Each
110E7800	Remove Chain Link Fence for Reset	740	Ft
110E7802	Remove Fence for Reset	300	Ft
120E0010	Unclassified Excavation	291,481	CuYd
120E0500	Option Borrow Excavation	239,629	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E2000	Undercutting	70,764	CuYd
120E6100	Water for Embankment	4,892.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
380E2564	4" Barrier Type Colored Median PCC Pavement	1,769.0	SqYd
380E3540	8" PCC Approach Pavement	63.0	SqYd
421E0100	Pipe Culvert Undercut	119	CuYd
450E0112	15" RCP Class 2, Furnish	22	Ft
450E0120	15" RCP, Install	22	Ft
450E0122	18" RCP Class 2, Furnish	2,290	Ft
450E0130	18" RCP, Install	2,290	Ft
450E0142	24" RCP Class 2, Furnish	920	Ft
450E0150	24" RCP, Install	920	Ft
450E0182	36" RCP Class 2, Furnish	52	Ft
450E0184	36" RCP Class 4, Furnish	214	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E0190	36" RCP, Install	266	Ft
450E0222	60" RCP Class 2, Furnish	162	Ft
450E0230	60" RCP, Install	162	Ft
450E0700	RCP Tee, Furnish	1	Each
450E0701	RCP Tee, Install	1	Each
450E2008	18" RCP Flared End, Furnish	2	Each
450E2009	18" RCP Flared End, Install	2	Each
450E2028	36" RCP Flared End, Furnish	1	Each
450E2029	36" RCP Flared End, Install	1	Each
450E2304	18" RCP Safety End, Furnish	1	Each
450E2307	18" RCP Safety End, Install	1	Each
450E4758	18" CMP 14 Gauge, Furnish	298	Ft
450E4760	18" CMP, Install	298	Ft
450E4768	24" CMP 14 Gauge, Furnish	408	Ft
450E4770	24" CMP, Install	408	Ft
450E4798	42" CMP 14 Gauge, Furnish	26	Ft
450E4800	42" CMP, Install	26	Ft
450E5010	18" CMP Elbow, Furnish	4	Each
450E5011	18" CMP Elbow, Install	4	Each
450E5025	36" CMP Elbow, Furnish	1	Each
450E5028	36" CMP Elbow, Install	1	Each
450E5211	18" CMP Flared End, Furnish	2	Each
450E5212	18" CMP Flared End, Install	2	Each
450E8009	18" RCP to CMP Transition, Furnish	1	Each
450E8010	18" Pipe Transition, Install	1	Each
450E9001	Reset Pipe End Section	6	Each
462E0100	Class M6 Concrete	74.0	CuYd
480E0100	Reinforcing Steel	10,914	Lb
530E0300	Type C Concrete Retaining Wall	75	SqFt
600E0300	Type III Field Laboratory	1	Each
620E4100	Reset Fence	300	Ft
621E0160	6' Chain Link Fence with Tension Wired Top	738	Ft
621E0520	Reset Chain Link Fence	740	Ft
629E0100	3 Cable Guardrail	1,248	Ft
629E0200	Reset 3 Cable Guardrail	2,120	Ft
629E0400	3 Cable Guardrail Anchor Assembly	4	Each
629E0410	Reset 3 Cable Guardrail Anchor Assembly	1	Each
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	50.0	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
630E1010	Straight Class A W Beam Guardrail with Wood Posts	875.0	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	4	Each
630E2020	W Beam Guardrail Tangent End Terminal	4	Each
650E0090	Type B69 Concrete Curb and Gutter	5,268	Ft
650E0390	Type BL69 Concrete Curb and Gutter	4,237	Ft
650E1090	Type F69 Concrete Curb and Gutter	363	Ft
650E1390	Type FL69 Concrete Curb and Gutter	615	Ft
650E4680	Type P6 Concrete Gutter	133	Ft
650E6280	8" Concrete Valley Gutter	44.0	SqYd
651E0060	6" Concrete Sidewalk	19,181	SqFt
651E0160	6" Reinforced Concrete Sidewalk	140	SqFt
651E7000	Type 1 Detectable Warnings	198	SqFt
670E1200	Type B Frame and Grate Assembly	17	Each
670E2200	Type C Frame and Grate	12	Each
670E4205	Type M Frame and Grate Assembly	5	Each
670E5300	3' x 4' Drop Inlet Cover	4	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	4	Each
670E5400	Precast Drop Inlet Collar	17	Each
671E4548	48" Manhole Cone Section	3.0	Ft
671E5502	2" Adjusting Ring for Manhole	2	Each
671E6009	Type A9 Manhole Frame and Lid	3	Each
671E7010	Adjust Manhole	1	Each
671E8000	Reconstruct Manhole	3	Each
720E1015	Bank and Channel Protection Gabion	19.5	CuYd
900E0010	Refurbish Single Mailbox	1	Each



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A3	A9

Revised Date: 8/28/2015 AMO

Grading – Section B (P 014A(11)8)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	1.020	Mile
009E3245	Final Cross Section Survey	0.237	Mile
009E3250	Miscellaneous Staking	0.237	Mile
009E3280	Slope Staking	0.237	Mile
100E0100	Clearing	Lump Sum	LS
110E0400	Remove Drop Inlet	1	Each
110E0805	Remove Chain Link Fence	350	Ft
110E7800	Remove Chain Link Fence for Reset	105	Ft
120E0010	Unclassified Excavation	13,855	CuYd
120E0500	Option Borrow Excavation	28,407	CuYd
120E2000	Undercutting	4,338	CuYd
120E6100	Water for Embankment	429.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
380E2564	4" Barrier Type Colored Median PCC Pavement	628.0	SqYd
450E0122	18" RCP Class 2, Furnish	192	Ft
450E0130	18" RCP, Install	192	Ft
450E2008	18" RCP Flared End, Furnish	1	Each
450E2009	18" RCP Flared End, Install	1	Each
450E4758	18" CMP 14 Gauge, Furnish	56	Ft
450E4760	18" CMP, Install	56	Ft
450E5010	18" CMP Elbow, Furnish	2	Each
450E5011	18" CMP Elbow, Install	2	Each
450E5211	18" CMP Flared End, Furnish	1	Each
450E5212	18" CMP Flared End, Install	1	Each
462E0100	Class M6 Concrete	11.4	CuYd
480E0100	Reinforcing Steel	1,805	Lb
621E0520	Reset Chain Link Fence	105	Ft
650E1090	Type F69 Concrete Curb and Gutter	2,358	Ft
650E1390	Type FL69 Concrete Curb and Gutter	1,706	Ft
651E5000	Sidewalk Drain	16.0	Ft
670E1200	Type B Frame and Grate Assembly	3	Each
670E6340	4' x 11' Precast Concrete Type S Drop Inlet Lid	1	Each
670E6400	Precast Drop Inlet Collar	3	Each
671E4548	48" Manhole Cone Section	1.0	Ft
671E5502	2" Adjusting Ring for Manhole	1	Each
671E6009	Type A9 Manhole Frame and Lid	1	Each
720E1015	Bank and Channel Protection Gabion	9.0	CuYd

Traffic Control – Section C (IM 0901(162)14)

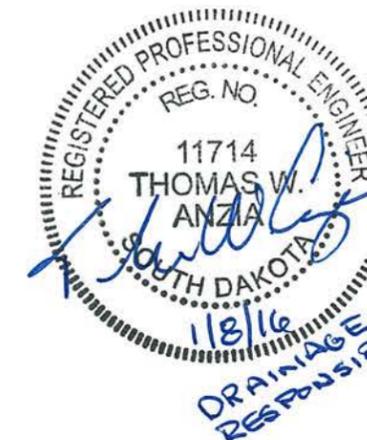
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0655	Remove Interim Crossover Closure	448	Ft
110E7000	Remove Crossover Closure for Reset	1,344	Ft
629E9010	Interim Crossover Closure	448	Ft
629E9050	Reset Crossover Closure	1,344	Ft
632E2520	Type 2 Object Marker	6	Each
634E0010	Flagging	300.0	Hour
634E0110	Traffic Control Signs	2,011	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0260	Type 3 Barricade, 6' Single Sided	12	Each
634E0265	Type 3 Barricade, 6' Double Sided	15	Each
634E0280	Type 3 Barricade, 8' Single Sided	1	Each
634E0330	Temporary Raised Pavement Markers	186,738	Ft
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	1,129	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	252,938	Ft
634E0630	Temporary Pavement Marking	40.0	Mile
634E0700	Traffic Control Movable Concrete Barrier	565	Each
634E0705	Remove and Reset Traffic Control Movable Concrete Barrier	265	Each
634E0750	Temporary Concrete Barrier End Protection	7	Each
634E0755	Remove and Reset Temporary Concrete Barrier End Protection	7	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	2	Each
634E0915	Short Term Temporary Traffic Control Signal	5	Site
634E1002	Detour Signing	682.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	8	Each
634E2010	Temporary Pedestrian Facility(s)	Lump Sum	LS

Traffic Control – Section C (P 014A(11)8)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	100.0	Hour
634E0110	Traffic Control Signs	529	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0260	Type 3 Barricade, 6' Single Sided	6	Each
634E0265	Type 3 Barricade, 6' Double Sided	7	Each
634E0330	Temporary Raised Pavement Markers	25,207	Ft
634E0560	Remove Pavement Marking, 4" or Equivalent	61,807	Ft
634E0630	Temporary Pavement Marking	9.0	Mile
634E0915	Short Term Temporary Traffic Control Signal	2	Site

INDEX OF SHEETS

A1 and A2 Estimate of Quantities for Sections B,C,D,E, F, H, L, M, and S
 A3 to A8 Environmental Commitments



11/8/16
 DRAINAGE RESPONSIBILITY
Michelle Stevens
 11/7/16
 Roadway Traffic Control Responsibility

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A4	A9

Revised Date: 8/28/2015 AMO

Erosion and Sediment Control – Section D (IM 0901(162)14)

Erosion and Sediment Control – Section D (P 014A(11)8)

Section E (IM 0901(162)14) Structure 41-116-088

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	9.0	CuYd
110E1693	Remove Erosion Control Wattle	975	Ft
110E1695	Remove Sediment Filter Bag	1,355	Ft
110E1697	Remove Triangular Silt Barrier	500	Ft
110E1700	Remove Silt Fence	3,779	Ft
120E6300	Water for Vegetation	11.4	MGal
230E0010	Placing Topsoil	11,900	CuYd
730E0100	Cover Crop Seeding	6.0	Bu
730E0208	Type E Permanent Seed Mixture	580	Lb
732E0100	Mulching	58.0	Ton
732E0200	Fiber Mulching	3.2	Ton
733E0100	Sodding	636	SqYd
734E0044	Soil Stabilizer	1.9	Acre
734E0103	Type 3 Erosion Control Blanket	25,000	SqYd
734E0140	Erosion Bale	500	Each
734E0154	12" Diameter Erosion Control Wattle	3,913	Ft
734E0165	Remove and Reset Erosion Control Wattle	3,913	Ft
734E0180	Sediment Filter Bag	1,430	Ft
734E0325	Surface Roughening	2.1	Acre
734E0400	Rock Check Dam	100.0	CuYd
734E0425	Triangular Silt Barrier	500	Ft
734E0430	Remove and Reset Triangular Silt Barrier	500	Ft
734E0510	Shaping for Erosion Control Blanket	11,000	Ft
734E0602	Low Flow Silt Fence	16,544	Ft
734E0604	High Flow Silt Fence	115	Ft
734E0610	Mucking Silt Fence	1,047	CuYd
734E0620	Repair Silt Fence	3,779	Ft
734E0680	Flocculent Housing Unit	1	Each
734E0683	500K Gallon Treatment Flocculent Bag	1	Each
734E0845	Sediment Control at Inlet with Frame and Grate	35	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	120	Ft
734E5000	Dewatering	38	Hour
734E5010	Sweeping	68	Hour
900E1310	Concrete Washout Facility	1	Each
900E1320	Construction Entrance	1	Each

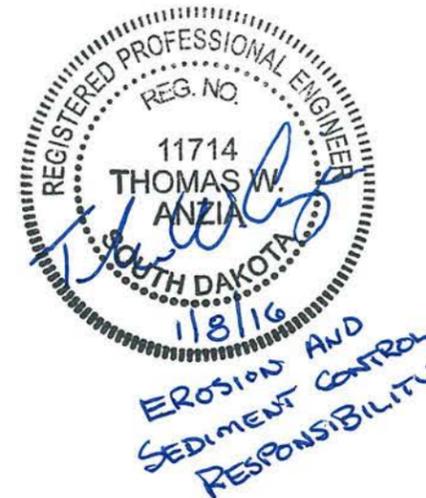
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	3.0	CuYd
110E1693	Remove Erosion Control Wattle	325	Ft
110E1695	Remove Sediment Filter Bag	1,610	Ft
110E1700	Remove Silt Fence	1,259	Ft
120E6300	Water for Vegetation	7.6	MGal
230E0010	Placing Topsoil	1,065	CuYd
730E0100	Cover Crop Seeding	2.0	Bu
730E0206	Type D Permanent Seed Mixture	21	Lb
732E0100	Mulching	6.0	Ton
733E0100	Sodding	420	SqYd
734E0044	Soil Stabilizer	0.1	Acre
734E0154	12" Diameter Erosion Control Wattle	1,287	Ft
734E0165	Remove and Reset Erosion Control Wattle	1,287	Ft
734E0180	Sediment Filter Bag	155	Ft
734E0602	Low Flow Silt Fence	3,456	Ft
734E0604	High Flow Silt Fence	35	Ft
734E0610	Mucking Silt Fence	351	CuYd
734E0620	Repair Silt Fence	1,259	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	4	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	30	Ft
734E5000	Dewatering	12	Hour
734E5010	Sweeping	22	Hour
900E1320	Construction Entrance	1	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	3,105.0	SqYd
250E0030	Incidental Work, Structure	Lump Sum	LS
260E1010	Base Course	17,106.0	Ton
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	345.4	Ft
420E0100	Structure Excavation, Bridge	1,084	CuYd
430E0300	Granular Bridge End Backfill	578.0	CuYd
460E0030	Class A45 Concrete, Bridge Deck	1,526.7	CuYd
460E0050	Class A45 Concrete, Bridge	996.7	CuYd
460E0100	Class A45 Concrete, Miscellaneous	18.4	CuYd
460E0150	Concrete Approach Slab for Bridge	1,246.6	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	278.1	SqYd
460E0380	Install Dowel in Concrete	450	Each
460E0500	Deck Drain, Girder Bridge	3	Each
460E0650	Roadway Canopy	Lump Sum	LS
480E0100	Reinforcing Steel	172,595	Lb
480E0200	Epoxy Coated Reinforcing Steel	2,850	Lb
491E0010	Bridge Deck Polymer Chip Seal	1,970.0	SqYd
510E0100	Extract Pile	6	Each
510E3130	HP 12 Pile Tip Reinforcement	152	Each
510E3421	HP 12x74 Steel Test Pile, Furnish and Drive	182	Ft
510E3425	HP 12x74 Steel Bearing Pile, Furnish and Drive	9,966	Ft
560E8054	54" Minnesota Shape Prestressed Concrete Beam	5,220	Ft
621E0300	Chain Link Fence for Bridge Sidewalk	364	Ft
734E2020	Bridge Berm Slope Protection, Crushed Aggregate	213.0	SqYd
831E1010	Geogrid Reinforcement	3,364	SqYd

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0300	Structure Excavation, Retaining Wall	2,685	CuYd
421E1000	Footing Undercut	2,857	CuYd
530E0420	MSE Large Panel Wall, Furnish	17,832	SqFt
530E0422	MSE Large Panel Wall, Install	17,832	SqFt
530E0702	Granular Backfill for MSE Large Panel Wall	12,339.0	CuYd

Section E (IM 0901(162)14) Structure 41-116-088 Stainless Alt. A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
480E0300	Stainless Reinforcing Steel	385,150	Lb



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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IM 0901 (162)14/P 014A (11) 8		A5	A9

Revised Date: 01/15/2016 AMO

Section E (IM 0901(162)14) Structure 41-116-088 Zinc and Epoxy Dual Coated Alt. B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
480E0250	Zinc and Epoxy Dual-Coated Reinforcing Steel	385,150	Lb

Surfacing – Section F (IM 0901(162)14)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E3320	Checker	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1,879	Ft
110E0415	Remove Edge Drains	Lump Sum	LS
110E0655	Remove Interim Crossover Closure	256	Ft
110E1020	Remove Asphalt Concrete Pavement	12,399.8	CuYd
110E1105	Remove Concrete Pavement	10,020.7	CuYd
110E1110	Remove Concrete Approach Pavement	356.2	SqYd
110E1140	Remove Concrete Sidewalk	401.1	SqYd
110E1640	Remove Granular Material	17,452.7	CuYd
110E7000	Remove Crossover Closure for Reset	416	Ft
120E0010	Unclassified Excavation	48,310	CuYd
120E6200	Water for Granular Material	959.9	MGal
210E2000	Shoulder Shaping	5.347	Mile
260E1010	Base Course	24,712.4	Ton
260E2010	Gravel Cushion	48,921.0	Ton
270E0020	Salvage and Stockpile Asphalt Mix Material	3,192.3	Ton
320E1200	Asphalt Concrete Composite	200.0	Ton
320E5010	Saw and Seal Shoulder Joint	28,235	Ft
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	2.9	Mile
330E0010	MC-70 Asphalt for Prime	47.5	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	8.8	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	4.7	Ton
330E2000	Sand for Flush Seal	1.6	Ton
380E0070	9" Nonreinforced PCC Pavement	42,652.5	SqYd
380E0110	11" Nonreinforced PCC Pavement	53,418.7	SqYd
380E6000	Dowel Bar	50,374	Each
380E6110	Insert Steel Bar in PCC Pavement	98	Each
410E2600	Membrane Sealant Expansion Joint	345.4	Ft
629E9050	Reset Crossover Closure	416	Ft

Surfacing Alt. A – Section F (IM 0901(162)14)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0004	PG 58-28 Asphalt Binder	389.3	Ton
320E1070	Class HR Asphalt Concrete	9,734.4	Ton

Surfacing Alt. B – Section F (IM 0901(162)14)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0004	PG 58-28 Asphalt Binder	359.9	Ton
320E1070	Class HR Asphalt Concrete	9,996.7	Ton

Surfacing – Section F (P 014A(11)8)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	860	Ft
110E1020	Remove Asphalt Concrete Pavement	1,350.0	CuYd
110E1140	Remove Concrete Sidewalk	232.1	SqYd
110E1640	Remove Granular Material	3,722.2	CuYd
120E0010	Unclassified Excavation	5,529	CuYd
120E6200	Water for Granular Material	63.0	MGal
260E1010	Base Course	1,030.6	Ton
260E2010	Gravel Cushion	4,216.5	Ton
270E0020	Salvage and Stockpile Asphalt Mix Material	207.7	Ton
330E0010	MC-70 Asphalt for Prime	1.2	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	0.6	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	0.2	Ton
330E2000	Sand for Flush Seal	4.2	Ton
380E0070	9" Nonreinforced PCC Pavement	9,768.0	SqYd
380E6000	Dowel Bar	6,127	Each

Surfacing Alt. A – Section F (P 014A(11)8)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0004	PG 58-28 Asphalt Binder	26.0	Ton
320E1070	Class HR Asphalt Concrete	646.3	Ton

Surfacing Alt. B – Section F (P 014A(11)8)

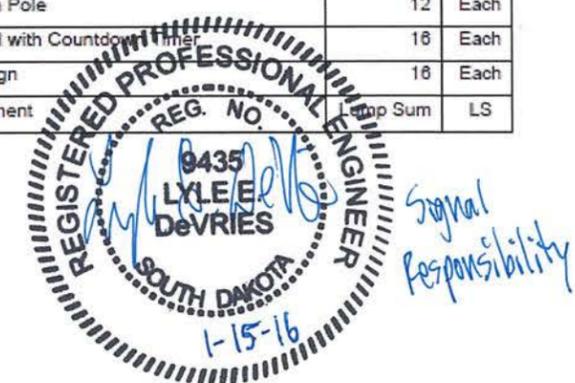
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
320E0004	PG 58-28 Asphalt Binder	23.9	Ton
320E1070	Class HR Asphalt Concrete	663.8	Ton

Signal and Lighting – Section L (IM 0901(162)14)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1510	Remove Luminaire Pole	1	Each
110E1520	Remove Signal Equipment	Lump Sum	LS
110E1530	Remove Signal Pole Footing	15	Each
110E1540	Remove Luminaire Pole Footing	1	Each
110E6100	Salvage Luminaire Pole	15	Each
110E6110	Salvage Signal Equipment	Lump Sum	LS
632E5000	Single Beam Sign Bridge	1	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	34	Each
635E2000	Pedestal Signal Pole	4	Each
635E2125	Signal Pole with 25' Mast Arm and Luminaire Arm	1	Each
635E2145	Signal Pole with 45' Mast Arm and Luminaire Arm	1	Each
635E2155	Signal Pole with 55' Mast Arm and Luminaire Arm	1	Each
635E2160	Signal Pole with 60' Mast Arm and Luminaire Arm	2	Each
635E2165	Signal Pole with 65' Mast Arm and Luminaire Arm	2	Each
635E3340	Roadway Luminaire, 400 Watt with Photoelectric Cell	44	Each
635E3530	Under Bridge Deck Luminaire, 250 Watt	14	Each
635E4030	3 Section Vehicle Signal Head	15	Each
635E4040	4 Section Vehicle Signal Head	15	Each
635E5020	2' Diameter Footing	298.0	Ft
635E5030	3' Diameter Footing	89.0	Ft
635E5100	Controller Cabinet Footing	1	Each
635E5301	Type 1 Electrical Junction Box	41	Each
635E5302	Type 2 Electrical Junction Box	18	Each
635E5303	Type 3 Electrical Junction Box	9	Each
635E5304	Type 4 Electrical Junction Box	3	Each
635E5360	Surface Mounted Junction Box	11	Each
635E5400	Electrical Service Cabinet	2	Each
635E5430	Traffic Signal Controller	3	Each
635E5440	Master Controller	1	Each
635E5500	Meter Socket	2	Each
635E5520	Video Detection System	3	Each
635E5560	Emergency Vehicle Preemption Unit	3	Each
635E5570	Optical Detector	11	Each
635E5900	Pedestrian Push Button	16	Each
635E5910	Pedestrian Push Button Pole	12	Each
635E5922	Pedestrian Signal Head with Countdown Timer	16	Each
635E5930	Pedestrian Crossing Sign	16	Each
635E7530	Relocate Signal Equipment	Lump Sum	LS



Structures Responsibility



Signal Responsibility

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A6	A9

Signal and Lighting – Section L (IM 0901(162)14) Continued

Signal and Lighting – Section L (P 014A(11)8)

Revised Date: 9/23/2015 AMO

Pavement Marking – Section M (P 014A(11)8)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E8020	2" Rigid Galvanized Steel Conduit	1,720	Ft
635E8030	3" Rigid Galvanized Steel Conduit	1,530	Ft
635E8120	2" Rigid Conduit, Schedule 40	11,200	Ft
635E8130	3" Rigid Conduit, Schedule 40	1,780	Ft
635E8140	4" Rigid Conduit, Schedule 40	70	Ft
635E8220	2" Rigid Conduit, Schedule 80	1,720	Ft
635E8230	3" Rigid Conduit, Schedule 80	1,530	Ft
635E9012	1/C #2 AWG Copper Wire	18,550	Ft
635E9014	1/C #4 AWG Copper Wire	20,940	Ft
635E9016	1/C #6 AWG Copper Wire	8,920	Ft
635E9020	1/C #10 AWG Copper Wire	31,730	Ft
635E9202	2/C #12 AWG IMSA Copper Cable, K1	100	Ft
635E9204	4/C #12 AWG IMSA Copper Cable, K1	3,350	Ft
635E9207	7/C #12 AWG IMSA Copper Cable, K1	2,700	Ft
635E9212	12/C #12 AWG IMSA Copper Cable, K1	690	Ft
635E9219	19/C #12 AWG IMSA Copper Cable, K1	870	Ft
635E9224	24/C #12 AWG IMSA Copper Cable, K1	1,360	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	3,140	Ft
635E9800	Preemption Cable	2,570	Ft
635E9900	Video Cable	1,720	Ft
635E9912	12 Strand Fiber Optic Cable	2,120	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1540	Remove Luminaire Pole Footing	4	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	4	Each
635E3340	Roadway Luminaire, 400 Watt with Photoelectric Cell	4	Each
635E5020	2' Diameter Footing	128.0	Ft
635E5301	Type 1 Electrical Junction Box	5	Each
635E5302	Type 2 Electrical Junction Box	4	Each
635E5400	Electrical Service Cabinet	2	Each
635E5500	Meter Socket	2	Each
635E7500	Remove and Reset Luminaire Pole	4	Each
635E8020	2" Rigid Galvanized Steel Conduit	820	Ft
635E8030	3" Rigid Galvanized Steel Conduit	530	Ft
635E8120	2" Rigid Conduit, Schedule 40	850	Ft
635E8220	2" Rigid Conduit, Schedule 80	820	Ft
635E8230	3" Rigid Conduit, Schedule 80	530	Ft
635E9012	1/C #2 AWG Copper Wire	3,140	Ft
635E9014	1/C #4 AWG Copper Wire	8,130	Ft
635E9016	1/C #6 AWG Copper Wire	1,570	Ft
635E9020	1/C #10 AWG Copper Wire	7,850	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	600	Ft

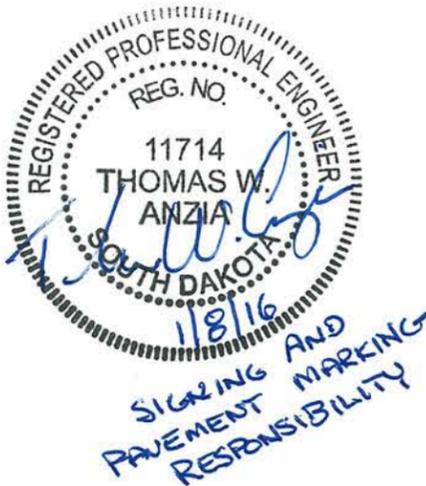
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0030	Cold Applied Plastic Pavement Marking, 24"	530	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	11	Each
633E1200	Waterborne Pavement Marking Paint with High Grade Polymer, White	8	Gal
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	530	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	11	Each
633E5100	Grooving for Durable Pavement Marking, 4"	1,470	Ft

Permanent Signage – Section S (IM 0901(162)14)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	85	Each
632E0014	1.75' Diameter Breakaway Support Concrete Footing	72.0	Ft
632E0016	2' Diameter Breakaway Support Concrete Footing	36.0	Ft
632E1225	W6x12 Steel Post	232.1	Ft
632E1250	W8x24 Steel Post	45.4	Ft
632E1265	W10x33 Steel Post	113.9	Ft
632E1320	2.0"x2.0" Perforated Tube Post	756.6	Ft
632E1330	2.25"x2.25" Perforated Tube Post	106.2	Ft
632E1340	2.5"x2.5" Perforated Tube Post	297.2	Ft
632E2000	4"x4" Amber Delineator with 1.12 Lb/Ft Post	51	Each
632E2004	4"x8" Amber Delineator with 1.12 Lb/Ft Post	48	Each
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	54	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	130	Each
632E2203	4" Tubular Amber Delineator Reflector	12	Each
632E2207	4" Tubular White Delineator Reflector	81	Each
632E2510	Type 2 Object Marker Back to Back	2	Each
632E2520	Type 2 Object Marker	2	Each
632E3003	Aluminum Overlay Sign, Nonremovable Copy High Intensity	63.0	SqFt
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	1,969.8	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	163.4	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	9	Each
635E5980	Rectangular Rapid Flashing Beacon	4	Each
900E0041	Reset Road Closure Gate	2	Each
900E0045	Drop Arm Road Closure Gate	1	Each

Pavement Marking – Section M (IM 0901(162)14)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	570	Ft
633E0020	Cold Applied Plastic Pavement Marking, 8"	3,450	Ft
633E0025	Cold Applied Plastic Pavement Marking, 12"	3,740	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	1,820	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	39	Each
633E1200	Waterborne Pavement Marking Paint with High Grade Polymer, White	170	Gal
633E1205	Waterborne Pavement Marking Paint with High Grade Polymer, Yellow	108	Gal
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	570	Ft
633E5005	Grooving for Cold Applied Plastic Pavement Marking, 8"	3,450	Ft
633E5010	Grooving for Cold Applied Plastic Pavement Marking, 12"	3,750	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	1,820	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	39	Each
633E5100	Grooving for Durable Pavement Marking, 4"	53,400	Ft



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A7	A9

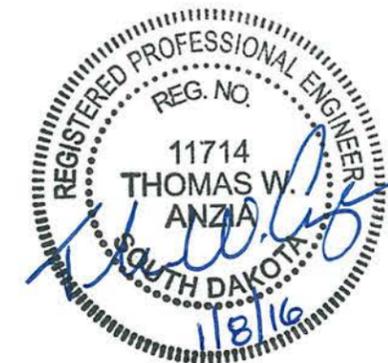
Revised Date: 8/28/2015 AMO

Permanent Signing – Section S (P 014A(11)8)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	16	Each
632E1320	2.0"x2.0" Perforated Tube Post	201.5	Ft
632E2203	4" Tubular Amber Delineator Reflector	6	Each
632E2207	4" Tubular White Delineator Reflector	13	Each
632E3003	Aluminum Overlay Sign, Nonremovable Copy High Intensity	45.8	SqFt
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	140.3	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	5.2	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	5	Each

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.



ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A8	A9

Revised Date: 8/28/2015 AMO

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived 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. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

COMMITMENT C: WATER SOURCE

The Contractor shall not withdraw water with equipment previously used outside the State of South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment before entering South Dakota to reduce the risk of invasive species introduction into the project vicinity.

Action Taken/Required:

The Contractor shall obtain the necessary permits from the regulatory agencies such as the Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (COE) prior to executing water extraction activities.

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D2: SURFACE WATER DISCHARGE

The False Bottom Creek and associated tributary are classified as a cold water marginal fishery with a Surface Water Discharge standard of 90 milligrams/liter total suspended solids.

Action Taken/Required:

If construction dewatering is required, the Contractor shall obtain a Temporary Discharge Permit from the DENR and provide a copy to the Project Engineer. Contact the DENR Surface Water Program at 605-773-3351 to apply for a permit.

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance.

Action Taken/Required:

The DENR and the US Environmental Protection Agency (EPA) have issued separate general permits for the discharge of storm water runoff. The DENR permit applies to discharges on state land and the EPA permit applies to discharges on federal or reservation land. The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior

to project start by the DOT Environmental Office. A letter must be received from DENR that acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

The Contractor shall adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State".

A major component of the storm water construction permits is development and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which is a joint effort and responsibility of the SDDOT and the Contractor. Erosion control measures and best management practices will be implemented in accordance with the SWPPP. The SWPPP is a dynamic document and is to be available on-site at all times.

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

SDDOT:

<http://www.sddot.com/business/environmental/stormwater/Default.aspx>

DENR: <http://www.denr.sd.gov/des/sw/stormwater.aspx>

EPA: http://cfpub.epa.gov/nepdes/home.cfm?program_id=6

Contractor Certification Form:

The "Department of Environmental and Natural Resources – Contractor Certification Form" (SD EForm – 2110LDV1-ContractorCertification.pdf) shall be completed by the Contractor or their certified Erosion Control Supervisor after the award of the contract. Work may not begin on the project until this form is signed.

The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the Surface Water Discharge General Permit for Storm Water Discharges Associated with Construction Activities for the Project.

The online form can be found at:

<http://denr.sd.gov/des/sw/eforms/E2110LDV1-ContractorCertification.pdf>

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor shall 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 State ROW.

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

The waste disposal site(s) shall 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 Project Engineer.

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

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of 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 of time not to exceed the duration of the project. Prior to project completion, the waste shall 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) shall be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical 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 review of cultural resources impacts. 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 shall arrange and pay for a cultural resource survey and/or records search. 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

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0901 (162)14/P 014A (11) 8	A9	A9

Revised Date: 8/28/2015 AMO

survey. A record search might be sufficient for review; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES (Cont.)

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the proposed 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 shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). 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.

If evidence for historic or cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order 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 shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COMMITMENT L: CONTAMINATED MATERIAL

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

Description	Station	L / R
Speedy Mart, Inc. - Aboveground Service Tank	89+58 - 90+39	R
Tordsen Development Company, LLC - Underground Storage Tank	90+39 - 91+58	R

Action Taken/Required:

The Contractor shall give notice to the Engineer when contaminated soil is encountered on the project. The Engineer will contact the SDDOT Environmental Engineer, at 605-773-3180, so that contact with the Department of Environment and Natural Resources (DENR) and consultant to inspect and monitor removal of any contaminated soil can be initiated.

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

Petroleum contaminated soil may be disposed of at the Belle Fourche landfill. Todd Youngberg is the landfill contact and his phone number is 605.723.0485. Measurement of "Contaminated Material Excavation" shall 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 shall 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".