

STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED
PROJECT P 0073(00)92
SD HIGHWAY 73
HAAKON COUNTY

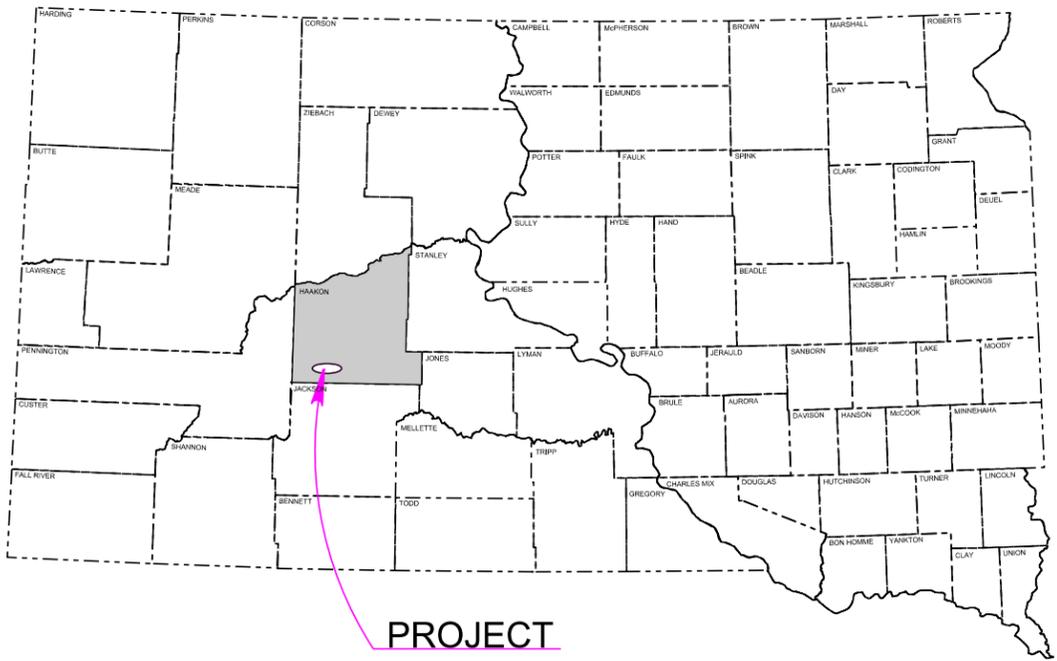
CURB RAMP UPGRADES, SIDEWALK,
 LIGHTING, RETAINING WALL, & ROW PLANS
 PCN 02VG

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0073(00)92	1	82

Plotting Date: 12/11/2014

INDEX OF SECTIONS

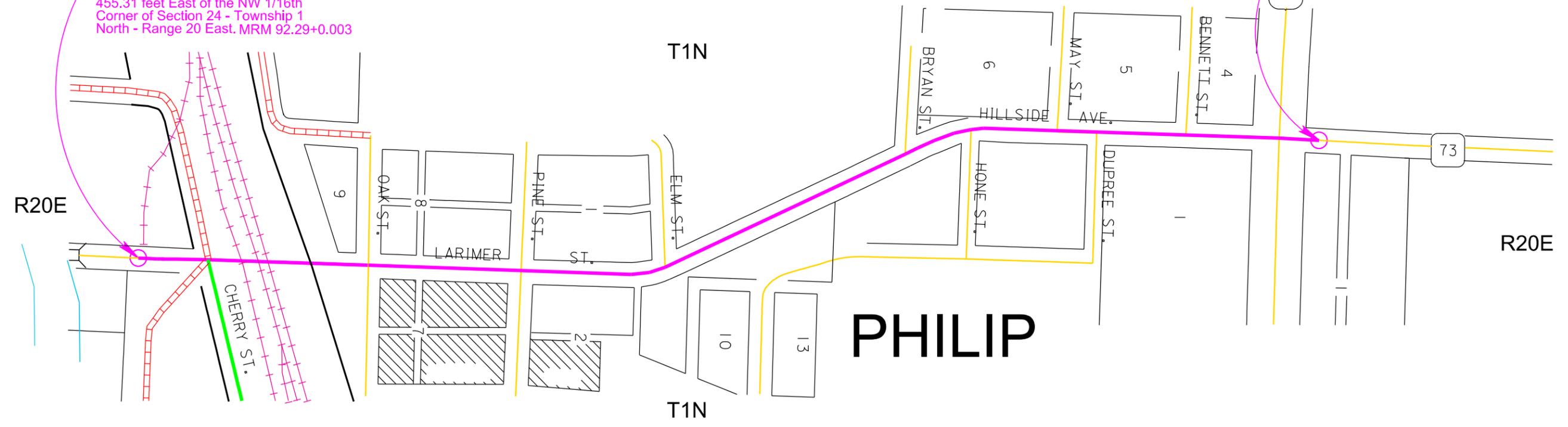
- Section A: Estimate of Quantities and Environmental Commitments
- Section B: Grading Plans
- Section C: Traffic Control Plans
- Section F: Surfacing Plans
- Section L: Signal and Lighting Plans
- Section M: Pavement Marking Plans
- Section X: Cross Sections



PROJECT

BEGIN P 0073(00)92
 Station 10+00.00=32+75.62 on
 F 027-4. 31.55 feet North and
 455.31 feet East of the NW 1/16th
 Corner of Section 24 - Township 1
 North - Range 20 East. MRM 92.29+0.003

END P 0073(00)92
 Station 44+00.00=501+05.71 on
 FAP F 027-4. 43.39 feet North of
 East 1/4 Corner of Section 14 -
 Township 1 North - Range 20 East.
 MRM 92.94+0.012



DESIGN DESIGNATION

ADT (2013)	590
ADT (2038)	693
DHV	75
D	51%
T DHV	9.4%
T ADT	20.8%
V	30 mph

STORM WATER PERMIT

None required

GROSS LENGTH	3400.00 FEET	0.644 MILES
LENGTH OF EXCEPTIONS	0.00 FEET	0.000 MILES
NET LENGTH	3400.00 FEET	0.644 MILES

10

Plot Scale - 1:200

Plotted From - trpr15696

File - U:\trproj\haakon02V\title.dgn

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0073(00)92	A1	A2

Plotting Date: 01/12/2015

Grading – Section B

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
009E3250	Miscellaneous Staking	0.644	Mile
009E3290	Structure Staking	2	Each
009E3300	Three Man Survey Crew	10.0	Hour
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1,052	Ft
110E0320	Remove Concrete Gutter	211	Ft
110E0400	Remove Drop Inlet	1	Each
110E0420	Remove Drop Inlet Frame and Grate Assembly	1	Each
110E1010	Remove Asphalt Concrete Pavement	827.1	SqYd
110E1100	Remove Concrete Pavement	34.2	SqYd
110E1110	Remove Concrete Approach Pavement	161.1	SqYd
110E1140	Remove Concrete Sidewalk	199.5	SqYd
110E1300	Remove Concrete Retaining Wall	85.0	Ft
110E7700	Remove Drop Inlet Frame and Grate Assembly for Reset	4	Each
380E3520	6" PCC Approach Pavement	167.9	SqYd
380E3540	8" PCC Approach Pavement	201.6	SqYd
380E4050	8" PCC Fillet Section	289.0	SqYd
462E0100	Class M6 Concrete	1.8	CuYd
480E0100	Reinforcing Steel	244	Lb
530E0300	Type C Concrete Retaining Wall	421	SqFt
600E0200	Type II Field Laboratory	1	Each
650E0060	Type B66 Concrete Curb and Gutter	456	Ft
650E0080	Type B68 Concrete Curb and Gutter	166	Ft
650E0360	Type BL66 Concrete Curb and Gutter	4	Ft
650E4660	Type P6 Concrete Gutter	92	Ft
650E4680	Type P8 Concrete Gutter	104	Ft
650E6280	8" Concrete Valley Gutter	60.6	SqYd
651E0040	4" Concrete Sidewalk	9,019	SqFt
651E0060	6" Concrete Sidewalk	930	SqFt
651E7000	Type 1 Detectable Warnings	286	SqFt
670E1200	Type B Frame and Grate Assembly	1	Each
670E2200	Type C Frame and Grate	1	Each
670E5400	Precast Drop Inlet Collar	1	Each
670E7000	Reset Drop Inlet Frame and Grate Assembly	4	Each
734E0010	Erosion Control	Lump Sum	LS
998E0100	Railroad Protective Insurance	Lump Sum	LS

Traffic Control – Section C

Bid Item Number	Item	Quantity	Unit
634E0010	Flagging	20	Hour
634E0100	Traffic Control	1,334	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E2020	Temporary Curb Ramp	4	Each

Surfacing – Section F

Bid Item Number	Item	Quantity	Unit
120E6200	Water for Granular Material	9.1	MGal
260E1010	Base Course	742.0	Ton
320E1200	Asphalt Concrete Composite	164.6	Ton
380E1030	8" Miscellaneous PCC Pavement	226.9	SqYd

Signal and Lighting – Section L

Bid Item Number	Item	Quantity	Unit
635E0035	Breakaway Base Luminaire Pole with Arm, 35' Mounting Height	22	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	22	Each
635E5020	2' Diameter Footing	132.0	Ft
635E5302	Type 2 Electrical Junction Box	11	Each
635E5400	Electrical Service Cabinet	2	Each
635E8120	2" Rigid Conduit, Schedule 40	2,680	Ft
635E8220	2" Rigid Conduit, Schedule 80	1,630	Ft
635E9014	1/C #4 AWG Copper Wire	8,245	Ft
635E9016	1/C #6 AWG Copper Wire	5,605	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	1,100	Ft

INDEX OF SHEETS

A1	Estimate of Quantities for Sections B, C, F, and L
A2	Environmental Commitments

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2004 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0073(00)92	A2	A2

Plotting Date: 12/22/2014

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 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.

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 designated option borrow 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: staging areas, borrow sites, waste disposal sites, and all material processing sites.

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

The Contractor shall provide ARC with the following: a topographical map or aerial view on 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 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 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 staging areas, borrow sites, waste disposal sites, or material processing sites 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.