

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	410B355	1	6

Plotting Date: 04/12/2017

PLANS FOR PROPOSED
PROJECT 410B355
SALEM MAINTENANCE YARD
McCOOK COUNTY

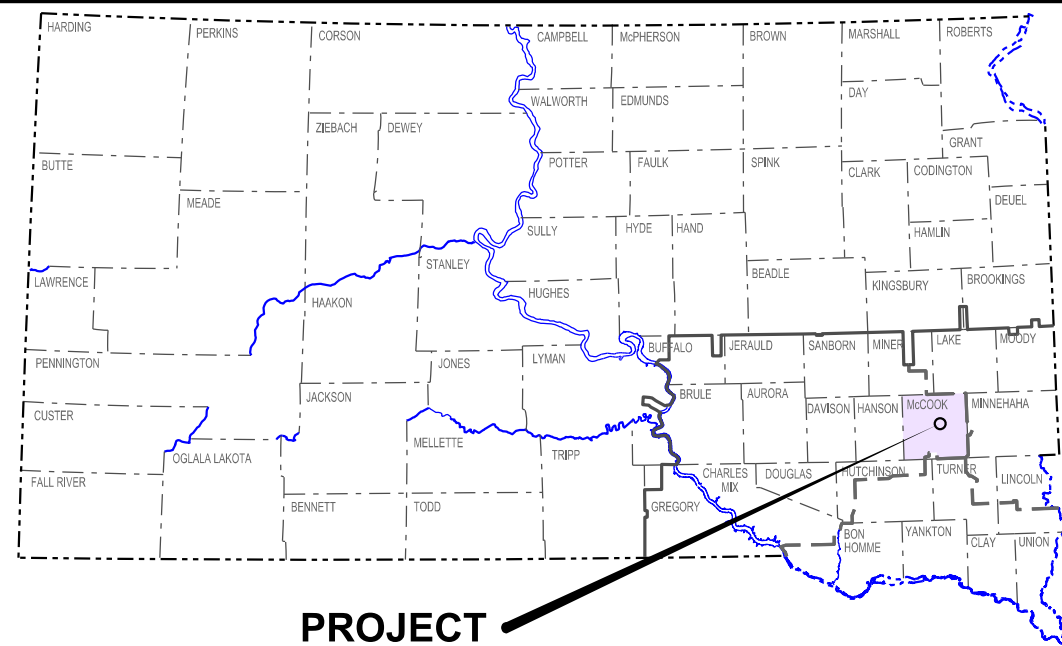
ASPHALT CONCRETE RESURFACING &
CONCRETE VALLEY GUTTER

PCN I4R8

INDEX OF SHEETS

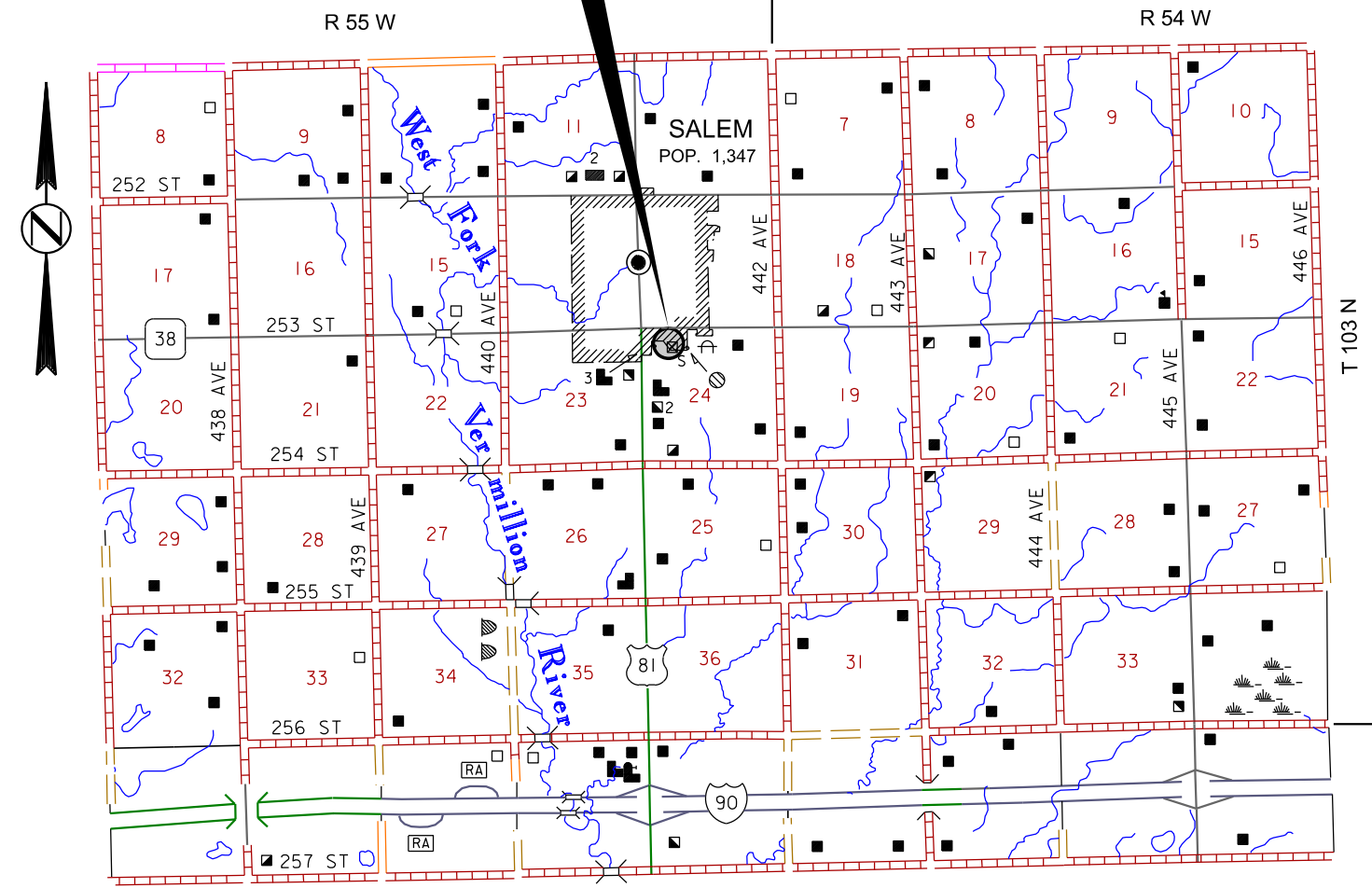
Sheet 1	Layout Map & Index of Sheets
Sheet 2	Estimate of Quantities & Environmental Commitments
Sheet 3	Plan Notes & Horizontal Alignment
Sheets 4&5	Layout for Resurfacing & Valley Gutter
Sheet 6	Detail for Valley Gutter

PLOT SCALE - 1" = 7000'



PROJECT

PROJECT 410B355
SALEM MAINTENANCE YARD



STORM WATER PERMIT
(None required)

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PLOT NAME - 1

ESTIMATE OF QUANTITIES & ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT 410B355	SHEET 2	TOTAL SHEETS 6
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ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	2,178.0	Ton
650E6280	8" Concrete Valley Gutter	171.0	SqYd

SPECIFICATIONS

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

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 B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pit, or staging site associated with the project, cease construction activities in the affected area until the Whooping Crane departs and contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

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 Public ROW.

The waste disposal site(s) shall 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 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 Public 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 Public 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.

Cost 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 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 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.

GENERAL SCOPE OF WORK

1. Install Valley gutter at location on the layout sheet.
2. Allow DOT 3 weeks to complete the grading process.
3. Resurface the lot with 2- 2" lifts of Asphalt Concrete Composite.

CONCRETE VALLEY GUTTER

Concrete valley gutter shall be placed at the location and elevations shown in the plans. Base Course shall be installed according to the detail. The Contractor will be responsible for excavating the existing material and placing Base Course. Valley gutter shall be 8" thick x 4' wide.

Concrete shall comply with the Specifications for Class M6 Concrete. Reinforcing steel shall comply with Sections 480 and 1010.

The sawed joints shall be spaced at 12'. The saw cut to control cracking shall be a minimum of ¼ the thickness of the pavement.

Cost for furnishing and installing valley gutter including excavating, concrete, base course, equipment, labor, material and incidentals shall be included in the contract unit price per square yard for 8" Concrete Valley Gutter.

GRADING


Grading of the lot will be completed by the SDDOT Maintenance Forces. A minimum of 3 week notice shall be given before paving of the lot is planned to begin to allow for the grading to be completed.

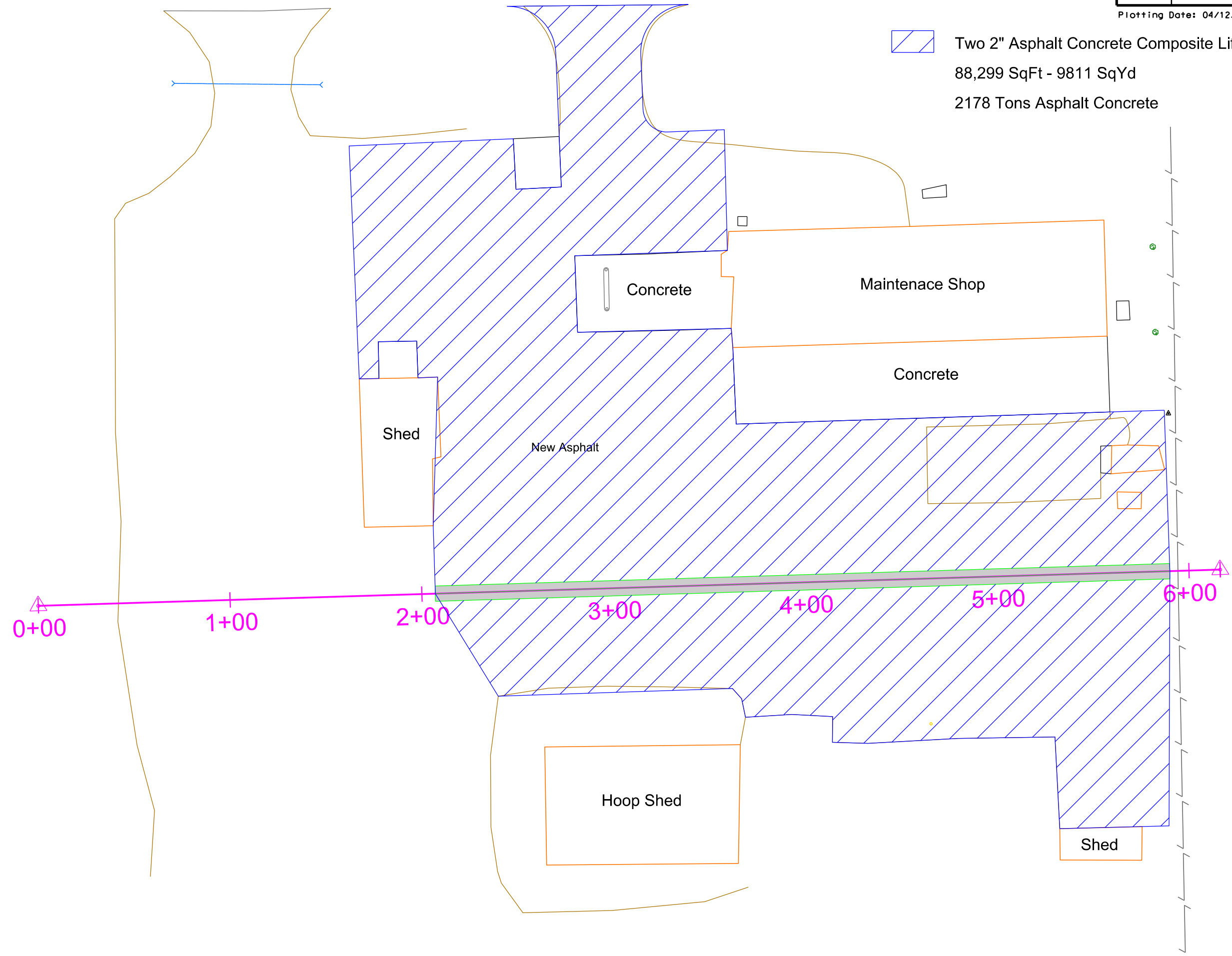
CONCRETE CHANNEL ALIGNMENT DATA

Type	Station		Northing	Easting
POB	0+00.00		517853.447	2747678.651
		TL= 616.26		
		N 88°14'49" E		
POE	6+16.26		517872.299	2748294.626

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011); epoch 20 __.__; Geoid 12A; SF = 0.999885318

Plotting Date: 04/12/2017

 Two 2" Asphalt Concrete Composite Lifts
 88,299 SqFt - 9811 SqYd
 2178 Tons Asphalt Concrete



PLOT SCALE - 1:50

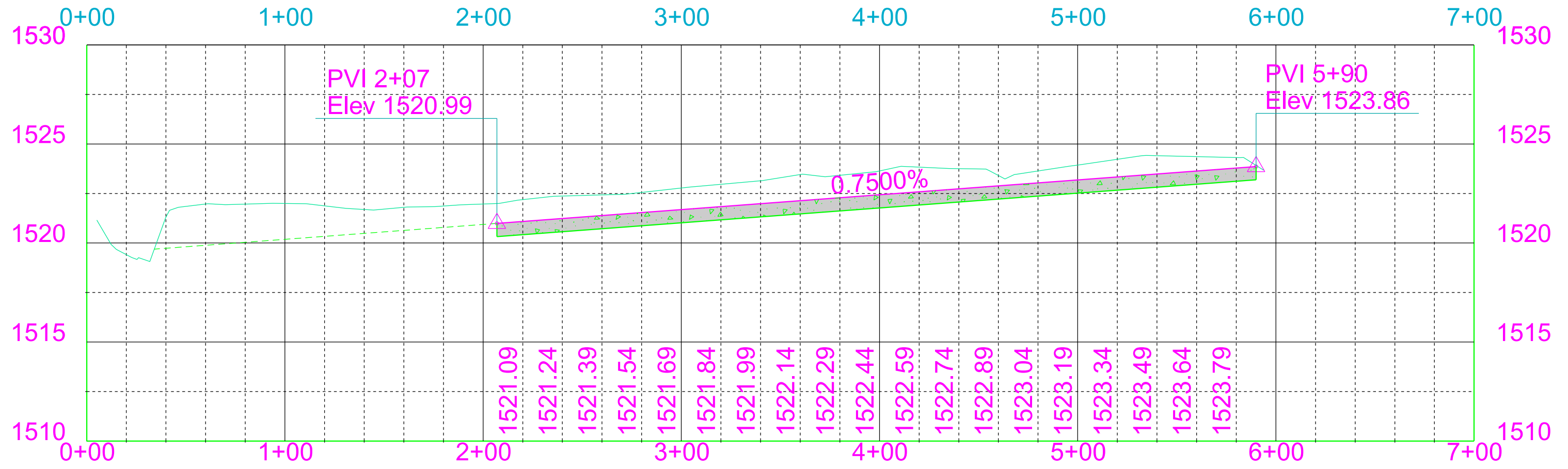
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PLOT NAME - 2

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PLOT SCALE - 1:50

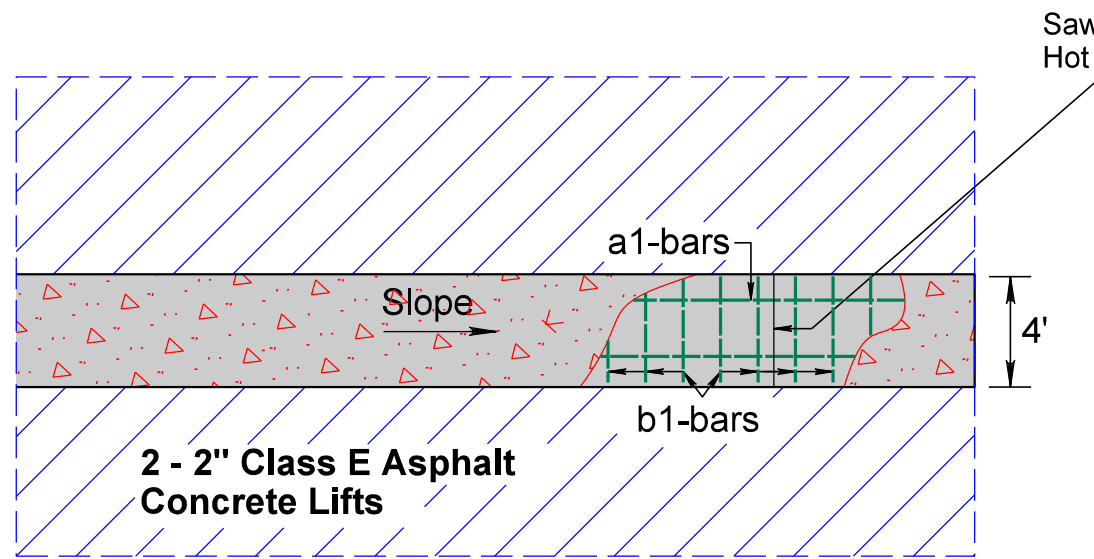
PLOT NAME - 3



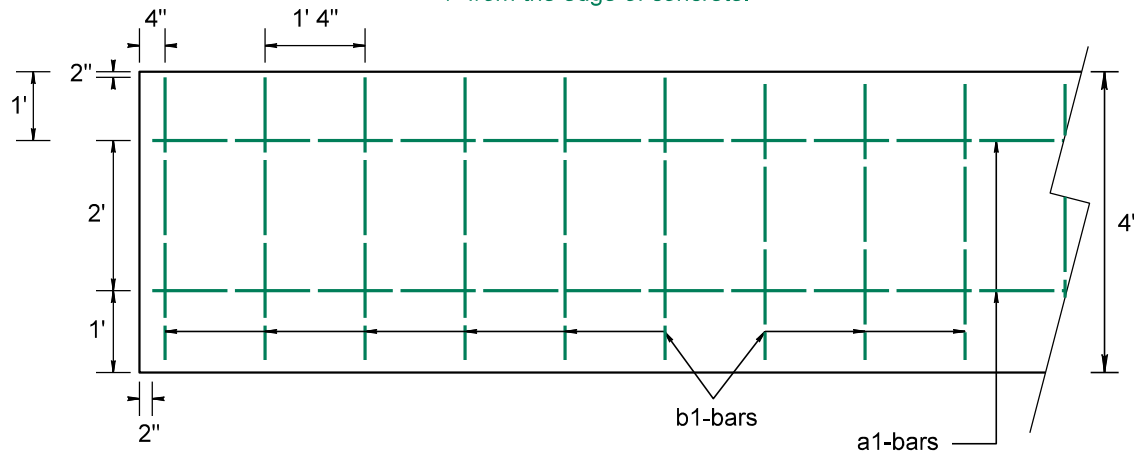
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DETAILS FOR GUTTER SECTION SALEM MAINTENANCE YARD



Reinforcing Steel (a1) shall be placed 2" from the transverse end and 1' from the longitudinal end. Reinforcing Steel (b1) shall be placed on 1' 4" centers starting 4" from the edge of concrete.



* a1-bars and b1-bars shall be No. 4 Rebar (Typ.)

