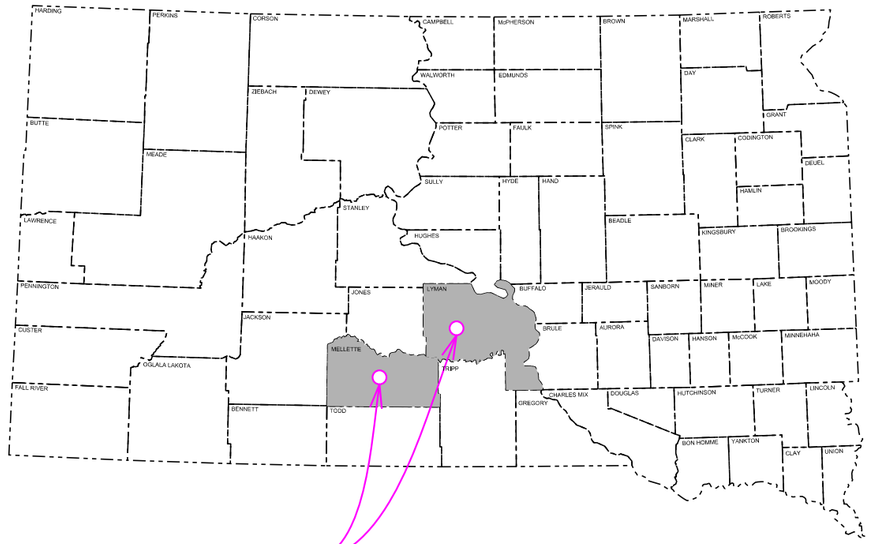


STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

PROJECT 410 C307 & 410 C308

PRESHO AND WHITE RIVER MAINTENANCE YARDS

LYMAN AND MELLETTE COUNTIES

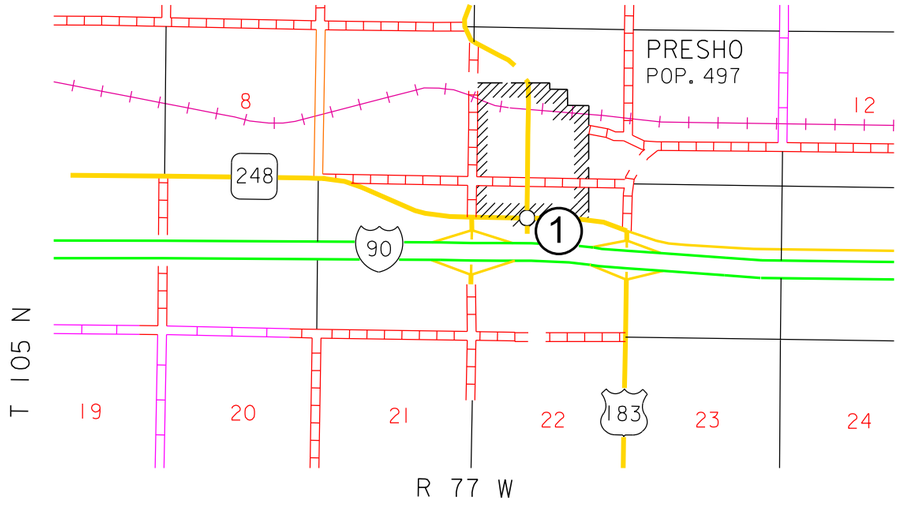
ASPHALT CONCRETE SURFACING AND RESURFACING

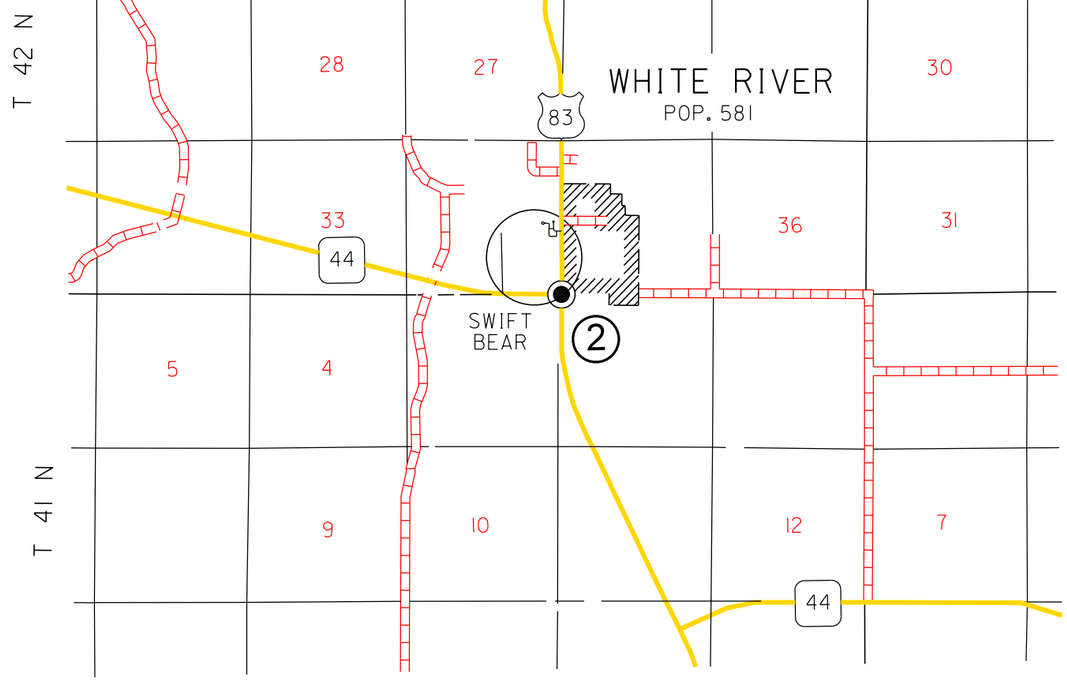
PCN i5xf & i5xg

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	410C307 & 410C308	1	6

Plotting Date: 03/10/2020

INDEX OF SECTIONS





STORM WATER PERMIT
NO PERMIT REQUIRED

PROJECT LOCATION IS DESIGNATED BY A CIRCLED NUMBER AND DESCRIBED BELOW.

① = PRESHO MAINTENANCE SHOP IN PRESHO, SD

② = WHITE RIVER MAINTENANCE SHOP IN WHITE RIVER, SD

ESTIMATE OF QUANTITIES

PROJECT 410C307 (WHITE RIVER MAINTENANCE YARD)

	BID ITEM NUMBER	ITEM	QUANTITY	UNIT
*	009E0010	Mobilization	Lump Sum	LS
*	320E1200	Asphalt Concrete Composite	1,128.0	Ton
*	332E0010	Cold Milling Asphalt Concrete	1,052	SqYd

* - Denotes Non-Participating

PROJECT 410C308 (PRESHO MAINTENANCE YARD)

	BID ITEM NUMBER	ITEM	QUANTITY	UNIT
*	009E0010	Mobilization	Lump Sum	LS
*	320E1200	Asphalt Concrete Composite	1,985.0	Ton
*	332E0010	Cold Milling Asphalt Concrete	367	SqYd

* - Denotes Non-Participating

SPECIFICATIONS

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

UTILITIES

Utilities are not planned to be affected on this project. If utilities are identified near the improvement area through SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the Engineer to determine modifications that will be necessary to avoid utility impacts.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Section A 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. 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/media/documents/EnvironmentalProceduresManual.pdf

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Office at 605-773-3098 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

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 Environment 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 completely 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 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) will be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

State Historical Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

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 of 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.

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 will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office to determine an appropriate course of action.

The Contractor is responsible 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.

SEQUENCE OF WORK

1. Mill existing asphalt as detailed on plan sheets
2. Shape and compact in-place salvaged material
3. Place tack
4. Place Asphalt Concrete Composite

Work at the White River Yard will be coordinated with Greg Ulmer, Highway Maintenance Supervisor at Winner (605-842-0810) and work at the Presho Yard will be coordinated with Jim Lolley, Highway Maintenance Supervisor Murdo (605-669-2371) to ensure that construction has minimal interference with normal operations for SD DOT and Highway Patrol.

SCOPE OF WORK

White River Maintenance Yard

Area 1: Currently this area consists of asphalt concrete surfacing. The Contractor is to mill the asphalt concrete adjacent to the concrete apron surrounding the fuel pumps, fuel fill area and adjacent to the main shop. Milling will be to a depth of 3” at the concrete apron and adjacent to the main shop to 0” depth at a distance of 20’ from the concrete apron and main shop. The Contractor is to place 3 inches of Asphalt Concrete Composite throughout Area 1. The Asphalt Concrete Composite will be placed in one lift. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. Area 1 contains 2,994 Square Yards minus 100 SqYds for the fuel island area. The area for cold milling asphalt concrete located inside Area 2 is estimated to be 465 square yards.

Area 2: Currently this area consists of asphalt concrete surfacing. The Contractor is to mill the asphalt concrete adjacent to the concrete apron along the main shop and cold storage building. Milling will be to a depth of 3” at the concrete apron to 0” depth at a distance of 20’ from the concrete apron. The Contractor is to then place 3 inches of Asphalt Concrete Composite throughout Area 2. The Asphalt Concrete Composite will be placed in one lift. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. Area 2 contains 1,391 Square Yards. The area for cold milling asphalt concrete located inside Area 2 is estimated to be 384 square yards.

Area 3: Currently this area consists of asphalt concrete surfacing. The Contractor is to mill the asphalt concrete in front of the doors for the salt shed and salt dome. Milling will be to a depth of 3” at the fronts of buildings to 0” depth at a distance of 20’ from the front of these buildings. The Contractor is to then place 3 inches of Asphalt Concrete Composite throughout Area 3. The Asphalt Concrete Composite will be placed in one lift. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. Area 3 contains 2,383 Square Yards. The area for cold milling asphalt concrete located inside Area 3 is estimated to be 203 square yards.

The Contractors attention is drawn to the fact that the fuel island & fuel fills are present within the vicinity of Area 1. Care is to be taken to avoid damaging the items in these areas. Any damage to the concrete fueling island will be repaired by the Contractor, to the satisfaction of the Engineer, at no expense to the State.

SCOPE OF WORK (CONTINUED):

Presho Maintenance Yard

Area 1: Currently this area consists of base course and base course, salvage. The Contractor is to place 3 inches of Asphalt Concrete Composite throughout Area 1. The Asphalt Concrete Composite will be placed in one lift. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer (minimum of 3.0% away from the new shop). SDDOT Maintenance forces will shape base course and base course, salvage for asphalt concrete placement. The Contractor will be required to prep areas adjacent to concrete and buildings. Area 1 contains 222 Square Yards.

Area 2: Currently this area consists of base course and base course, salvage. The Contractor is to place 3 inches of Asphalt Concrete Composite throughout Area 2. The Asphalt Concrete Composite will be placed in one lift. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer (minimum of 3.0% away from the new shop). SDDOT Maintenance forces will shape base course and base course, salvage for asphalt concrete placement. The Contractor will be required to prep areas adjacent to concrete and buildings. Area 2 contains 978 Square Yards.

Area 3: Currently this area consists of base course and base course, salvage. The Contractor is to place 6 inches of Asphalt Concrete Composite throughout Area 3. The Asphalt Concrete Composite will be placed in 2-3” lifts. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. SDDOT Maintenance forces will shape base course and base course, salvage for asphalt concrete placement. The Contractor will be required to prep areas adjacent to concrete and buildings. Area 3 contains 211 Square Yards.

Area 4: Currently this area consists of base course and base course, salvage. The Contractor is to place 6 inches of Asphalt Concrete Composite throughout Area 4. The Asphalt Concrete Composite will be placed in 2-3” lifts. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. SDDOT Maintenance forces will shape base course and base course, salvage for asphalt concrete placement. The Contractor will be required to prep areas adjacent to concrete and buildings. Area 4 contains 1,278 Square Yards.

Area 5: Currently this area consists of base course, base course, salvage and asphalt concrete. The Contractor is to place 6 inches of Asphalt Concrete Composite in areas of base course and base course, salvage and place 3” in areas of existing asphalt concrete surfacing. The Asphalt Concrete Composite will be placed in lifts not to exceed 3”. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. SDDOT Maintenance forces will shape base course and base course, salvage for asphalt concrete placement. The Contractor will be required to prep areas adjacent to concrete and buildings. Area 5 contains 2,153 Square Yards.

Area 6: Currently this area consists of base course, base course, salvage and asphalt concrete. The Contractor is to place 6 inches of Asphalt Concrete Composite in areas of base course and base course, salvage and place 3” in areas of existing asphalt concrete surfacing. The Asphalt Concrete Composite will be placed in lifts not to exceed 3”. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. SDDOT Maintenance forces will shape base course and base course, salvage for asphalt concrete placement. The Contractor will be required to prep areas adjacent to concrete and buildings. Area 6 contains 2,268 Square Yards.

Area 7: Currently this area consists of asphalt concrete surfacing. The Contractor is to mill the asphalt concrete to provide positive drainage as shown on the layout sheet. Milling will be to an average depth of 3” to provide positive drainage as directed by the Engineer. The Contractor is to place an average of 3 inches of Asphalt Concrete Composite throughout Area 7 to provide positive drainage as directed by the Engineer. The Asphalt Concrete Composite will be placed in one lift. Care is to be taken to ensure that positive drainage exists as per direction of the Engineer. Area 7 contains 367 Square Yards. The area for cold milling asphalt concrete located inside Area 7 is estimated to be 367 square yards.

The Contractors attention is drawn to the fact that the fuel island, fuel fills and propane tanks are present within the vicinity of Area 3, Area 5 and Area 6. Care is to be taken to avoid damaging the items in these areas. Any damage to these facilities will be repaired by the Contractor, to the satisfaction of the Engineer, at no expense to the State.

ASPHALT CONCRETE COMPOSITE

All work will be done in accordance with section 324 of the Standard Specifications for Roads & Bridges, 2015 Edition.

In place field densities will not be taken. Specified Roller Coverage shall apply.

Placement of Asphalt Concrete Composite will be accomplished with a self-propelled paver in all Areas except for areas adjacent to the building. The Engineer may allow alternate methods in the smaller areas provided a steel faced vibratory roller is used for compaction.

The Contractor will furnish, install and maintain “TRUCK CROSSING” signs. The location for this pair of signs will be determined in the field. Payment for these signs will be incidental to the various contract items.

It is estimated that 3,113 tons (1128 tons White River Maintenance Yard and 1985 Presho Maintenance Yard) of Asphalt Concrete Composite will be needed overall to complete the paving of the designated areas. The depths and locations of the paving may be changed as per direction of the Engineer. Any additional Asphalt Concrete Composite will be placed at locations in the White River and Presho Yards as directed by the Engineer.

COLD MILLING ASPHALT CONCRETE

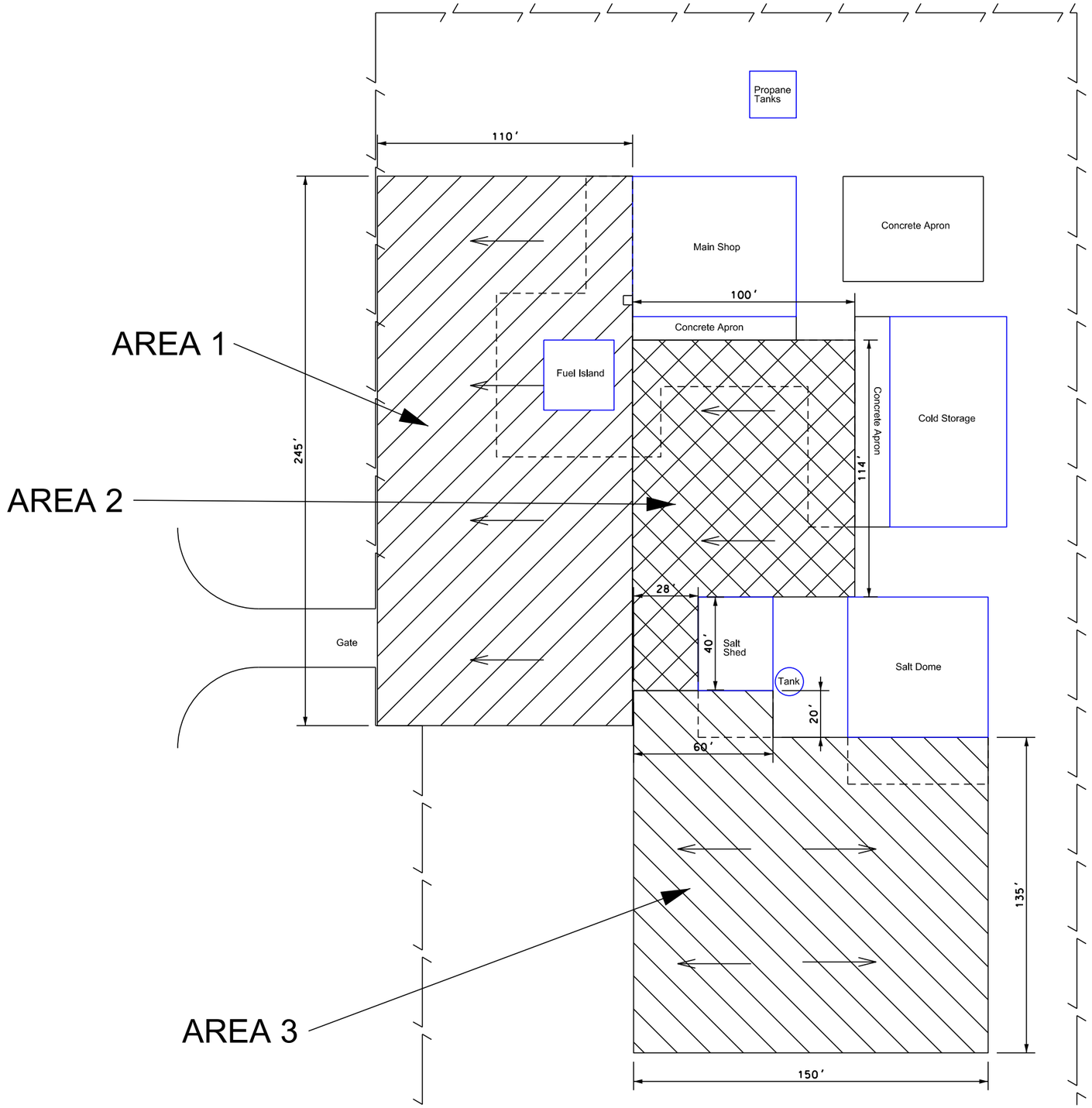
Asphalt Cold Milling Material generated from the White River Maintenance Yard will be stockpiled in the White River Maintenance Yard. The stockpile location shall be determined by Greg Ulmer, Highway Maintenance Supervisor at Winner (605-842-0810). Payment for stockpiling this material, estimated to be 88 ton, shall be incidental to the Unit Bid Price per Square Yard for Cold Milling Asphalt Concrete.

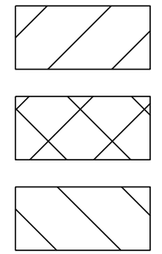
Asphalt Cold Milling Material generated from the Presho Maintenance Yard will be stockpiled in the Presho Maintenance Yard. The stockpile location shall be determined by Jim Lolley, Highway Maintenance Supervisor at Murdo (605-669-2371). Payment for stockpiling this material, estimated to be 61 ton, shall be incidental to the Unit Bid Price per Square Yard for Cold Milling Asphalt Concrete.

WHITE RIVER MAINTENANCE YARD PAVING LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	410C307 & 410C308	5	6

Plotting Date: 03/10/2020





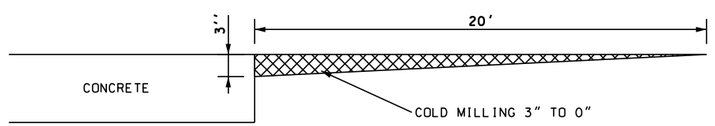
Area 1

Area 2

Area 3

Cold Milling Limits

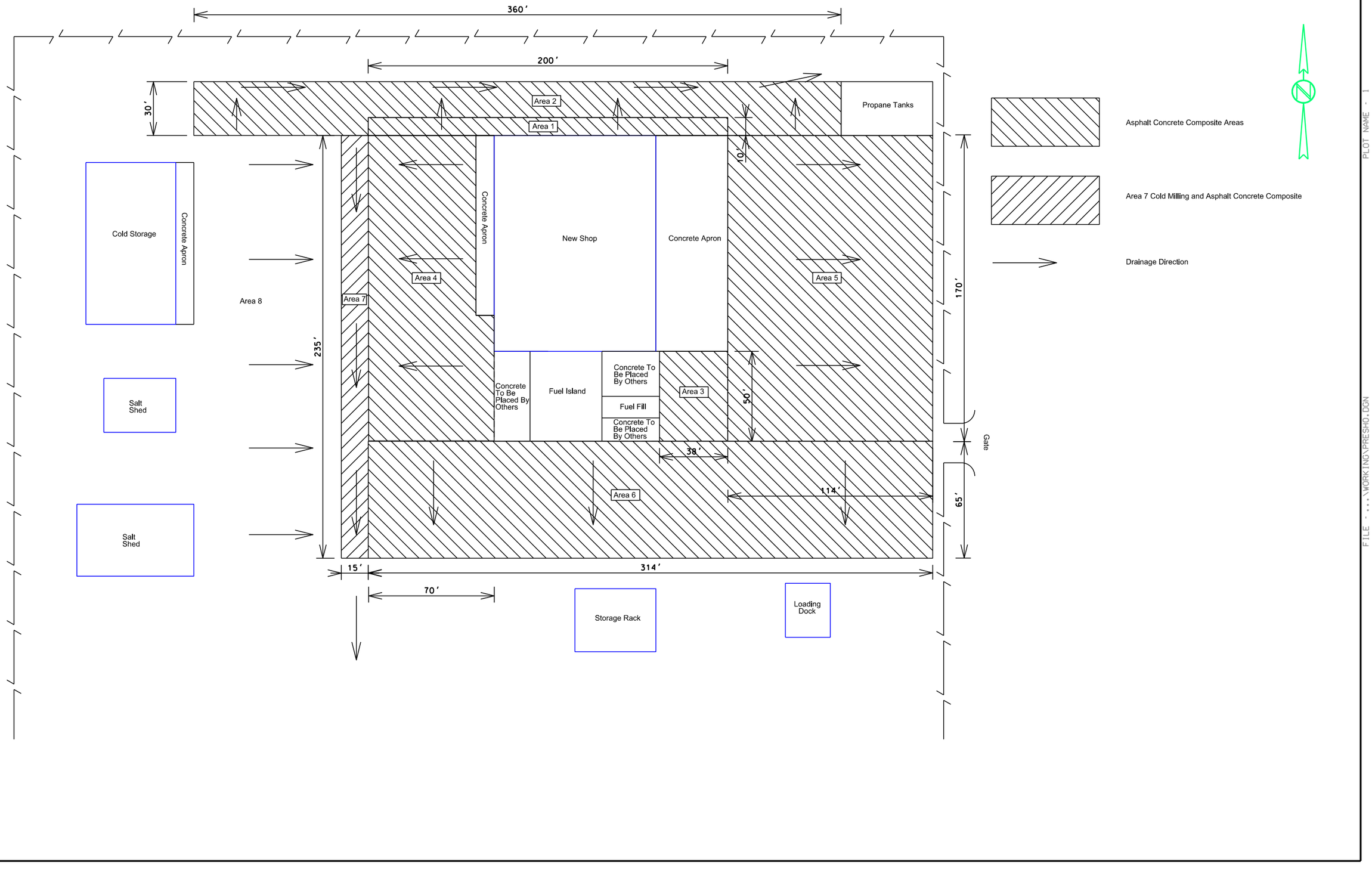
Drainage Direction



PRESHO MAINTENANCE YARD PAVING LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	410C307 & 410C308	6	6

Plotting Date: 03/10/2020



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PLOT NAME - 1

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