STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	1	30

Plotting Date: 12/29/2015

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR
PROJECT P 000S(00)009
COUNTY PAVEMENT MARKING
ABERDEEN REGION
PCN 03DF

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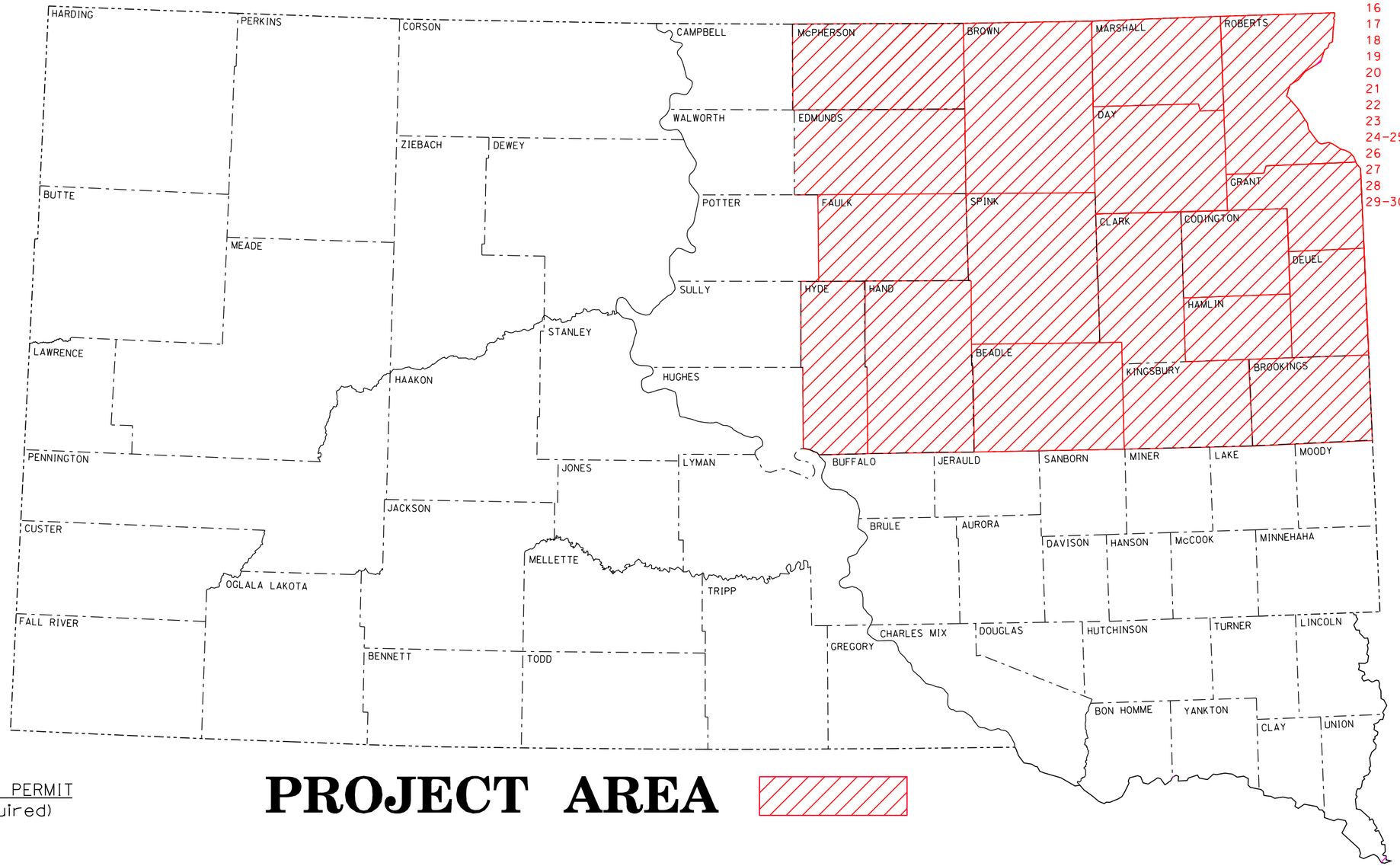


STORM WATER PERMIT
(None Required)

PROJECT AREA

13

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\TITLEA.DGN

ESTIMATE OF QUANTITES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
633E1300	Pavement Marking Paint, White	24,764	Gal
633E1305	Pavement Marking Paint, Yellow	11,631	Gal
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

SPECIFICATIONS

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

2. U.S. Department of Transportation Federal Highway Administration Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition and current Revisions.

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 County 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 County 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 County 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 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

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES (Continued)

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 NOTES

The Contractor will be required to repaint all existing pavement marking including centerline, edge line, and lane lines. This list is approximate. Additional quantities are included in the estimate of quantities to paint the additional pavement marking.

The in-place pavement markings shall be duplicated when striping. The Contractor shall take the necessary action to retain widths, locate tapers, and to be able to reproduce those that are in-place. Quantities of paint are included in the Estimate of Quantities and the cost of this work shall be incidental to the contract unit price per gallon for “Pavement Marking Paint, White” and “Pavement Marking Paint, Yellow”.

Pavement edge lines shall be marked 10 to 12 feet from centerline, as directed by the County Highway Superintendent. Driving surfaces less than 20 feet wide for 2 lanes of traffic shall not require edgelines. Edgelines on 2-lane roads 20 feet wide or greater shall be located as shown on the details in these plans. The pavement shall be cleaned of dirt, loose stones, and other foreign material before the paint is applied. Sweeping shall be incidental to painting.

Some of the miles shown in these plans are scheduled to be resealed or overlaid prior to painting. The Contractor shall provide written notice to the Engineer and each County Highway Superintendent at least 20 calendar days in advance of the begin workday for that county. The Contractor shall also give the County Highway Superintendent a verbal 48 hour notice, before beginning work in that County.

When the Contractor starts work in a County, he shall pursue the work in that County to completion before commencing work available in another County. Routes that are continuous from one County to another may be marked in one operation.

The Contractor shall limit his operation so that no more than 2 crews are working in one county at any one time.

The Contractor must inform the Engineer weekly of the quantity of paint applied and the location of where the Contractor will be working.

The Contractor shall provide a detailed list showing route, length of route and gallons of paint applied on each route in each county. This list shall be signed by a representative of the County and Contractor before submittal to the State for payment. Payment will not be made until the State receives a detailed and signed list of paint applied. There shall be no payment made to the Contractor until the Certificate(s) of Compliance for the Pavement Marking Paint and beads have been received by the Engineer.

The Contractor shall have a satisfactorily calibrated meter to measure the quantity for each color of paint used. The Contractor shall provide data that the meter was calibrated prior to use on the project.

Due to annual surfacing or sealing projects it may be necessary to delete a small amount of the total miles to be marked in some or all of the counties.

Beadle County Road 15 from US 14 to Broadland (8.0 miles) is scheduled to have a blotter installed in the summer of 2016 so the Contractor shall coordinate a schedule with the County Highway Superintendent to complete the pavement markings after the blotter placement.

It is expected that some of the roads will not be ready for striping until after September 15, 2016. The Contractor will be required to return after September 15, 2016 to complete the project if any roads are not ready due to sealing operations. The Contractor shall wait seven calendar days before striping a newly chip sealed roadway.

All materials shall be applied as per manufacturer’s recommendations. Project centerline markings shall be applied using a three gun system.

COLD WEATHER, WATERBORNE PAINT

Waterborne paint applied after October 15th shall be formulated as cold weather, waterborne paint, and shall be applied in accordance with manufacturer’s recommendations, including minimum temperature requirements.

These shall be no adjustment in the contract unit prices should cold weather formulated paint be required.

Cold weather, waterborne paint shall conform to section 980 of the Specifications except for the following:

980.1 – Resin Binder shall be Fastrack XSR manufactured by Dow, or approved equal.

980.1A – Quantitative Requirements:

The Pigment, Percent by Weight for white: 60.0 – 63.0 and for yellow: 58.5 – 61.5.

The Pigment, Percent by Weight when tested in accordance with ASTM D3723 for white: 60.0 – 63.0 and for yellow: 56.1 – 59.2.

The Non-volatile Vehicle, percent by weight, min. for white: 41.5 and yellow: 41.5 when tested in accordance with NIST 141c (method) 4051.1).

COUNTY RESPONSIBILITIES

If a portion of the total miles are to be deleted due to scheduled surfacing or sealing operations, the County Highway Superintendent shall notify the Contractor and the Engineer upon receipt of the Contractor's written notice.

Excess material on resealed roads shall be removed by brooming full width, including edgeline locations, and will be accomplished by County Maintenance forces in advance of the Contractor's operations.

The County shall provide a representative on the project to coordinate, observe and document quantities for the striping operations. The County shall coordinate with the Engineer for acceptance sampling for paint and beads. The County Highway Superintendent representative shall provide the Contractor all the information needed for No Passing Zones and Railroad Crossings as noted in the following paragraphs.

NO PASSING ZONES

No Passing Zones shall be established under the direction of the County Highway Superintendent. The County Highway Superintendent shall verify the No Passing Zones have been checked at an eye height of 3.5 feet prior to painting by the Contractor.

If No Passing Zones need to be established or reestablished, the County shall do so at its own expense.

Beginning and ending of No Passing Zones shall be marked by each County Highway Department prior to the start of work under this contract. The exact starting/ending point for each route to be marked will be determined by the County Highway Superintendent. The County shall mark the centerline of the road. When there is a seam that does not fall on the center of the road, the center of the road shall be marked every 100 feet to establish the center of the road. .

If a No Passing Zone is painted incorrectly, it shall be the Contractor’s responsibility to completely remove the incorrect markings and paint correctly at no cost to the State or County. Pavement marking lines painted in a non-straight manner, with excessive overspray, in a poor workmanship like manner, not conforming within the tolerances stated in Section 633.3 B. of the Specifications, or not as shown in the typical marking details in the plans shall be completely removed and repainted at no cost to the State or County.

RAILROAD CROSSINGS

The County Highway Superintendents shall check the location of Advance Warning Signs and adjust their location as per the MUTCD prior to painting the new markings on the roadway. See Plate Number 633.10.

Pavement marking for each Railroad Crossing shall consist of marking both approaches - crossing symbol, 24" bars before and after each crossing symbol and stop bars in accordance with the details shown in Plate Number 633.10.

All costs for traffic control devices, signs and flaggers used for Railroad Crossing pavement markings shall be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

NOTE: Paint quantities for Railroad Crossing pavement markings are included in the Bid Item “Pavement Marking Paint, White.” (Rate = 4 gallons per crossing and 8 pounds of beads per gallon)

RATES OF MATERIALS

4” Edgeline - 17± Gallons per Mile of White Paint

4” Centerline - 12± Gallons per Pass Mile of Yellow Paint (Includes Average No Passing Zones)

Note: If applied on a fresh chip seal or a new overlay, rates are:

4” Edgeline - 22± Gallons per Mile of White Paint

4” Centerline - 16± Gallons per Pass Mile of Yellow Paint (Includes Average No Passing Zones)

TRAFFIC CONTROL

All equipment and vehicles entering and exiting closed lanes of traffic in addition to working in traffic or alongside traffic shall display a flashing amber light visible from all directions at a minimum distance of ¼ mile.

All signs, shadow vehicles, arrow boards, of changeable message signs shown in the details for “Mobile Operations On 2-Lane Road” and “Mobile Operations On 4-Lane Divided” shall be incidental to the contract lump sum price for “Traffic Control, Miscellaneous”.

Painting will be allowed only during the hours from 1/2 hour after sunrise to 1/2 hour before sunset.

Cost of traffic control, including arrow panel and any flagging necessary shall be incidental to the contract lump sum price for “Traffic Control, Miscellaneous”.

If flagging operation is used per Standard Plate 634.23, signs shall be mounted on portable supports. The bottom of signs on portable supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas.

TABLE OF QUANTITIES

The following table is for information only.

County	County Roads (Mile)	NABI Railroad Crossings (Qty)	NABI Turn Lanes (Qty)	Paint White (Gal)	Paint Yellow (Gal)	NABI Glass Beads (Lb)
BEADLE	42.0	1	0	1852.0	672.0	20192
BROOKINGS	132.0	0	0	5018.0	1796.0	54512
BROWN	60.0	0	0	2640.0	960.0	28800
CLARK	33.0	0	0	1452.0	528.0	15840
CODINGTON	77.5	3	0	2672.0	1144.0	30528
DAY	76.0	1	0	1806.0	488.0	18352
DEUEL	29.7	0	0	1306.8	475.2	14256
EDMUNDS	23.5	1	0	4.0	282.0	2288
FAULK	11.5	0	0	0.0	138.0	1104
GRANT	82.5	10	1	44.0	1172.0	9728
HAMLIN	31.6	0	0	1390.4	505.6	15168
HAND	22.0	2	0	8.0	352.0	2880
HYDE	7.0	0	0	308.0	112.0	3360
KINGSBURY	30.0	0	0	1320.0	480.0	14400
MARSHALL	18.5	0	0	629.0	162.0	6328
MCPHERSON	41.0	0	0	1804.0	656.0	19680
ROBERTS	98.0	0	0	1520.0	1360.0	23040
SPINK	29.0	1	0	990.0	348.0	10704
	844.8	19	1	24764.2	11630.8	291160

NABI = Not a Bid Item

COUNTY HIGHWAY SUPERINTENDENT CONTACTS

County	Name	Address & E-Mail	Phone No.	Cell No.
Beadle	Merl Hanson	655 – 4th ST NW, Huron 57350 bchwy@santel.net	(605)-353-8441	350-8052
Brookings	Dick Birk	422 Western AVE, Brookings 57006 DBirk@brookingscountysd.gov	(605)-696-8270	651-9278
Brown	Dirk Rogers	3133 – 8th AVE NE, Aberdeen 57401 Dirk.Rogers@browncounty.sd.gov	(605)-626-7118	216-3133
Clark	Ryan Eggleston	PO Box 294, Clark 57225 clarkcountyhighwaydepartment@hotmail.com	(605)-532-3667	233-0329
Codington	Rick Small	1201 - 10th ST NW, Watertown 57201 cchighwaydept@knology.net	(605)-882-6271	881-0845
Day	Ben Braaten	530 W 1st AVE, Webster 57274 daycohwy@midconetwork.com	(605)-345-4658	881-1924
Deuel	Jamie Hintz	18028 SD HWY 15, Clear Lake 57226 deuelhwy@itctel.com	(605)-874-2751	237-5050
Edmunds	Lenny Uhrich	PO Box 38, Ipswich 57451 hwy.edco@midconetwork.com	(605)-426-6761	
Faulk	Konni Giesen	PO Box 436, Faulkton 57438 faulkhwy@venturecomm.net	(605)-598-6233	
Grant	Kerwin Schultz	47789 151st St, Milbank 57252 Kerwin.Schultz@state.sd.us	(605)-432-5861	949-1294
Hamlin	Bryan Pedersen	PO Box 297, Hayti 57241 hchdept@itctel.com	(605)-783-3626	881-5358
Hand	Jeff Hargens	810 E 2nd St, Miller 57362 handcohwy@yahoo.com	(605)-853-3292	
Hyde	Mike Cowan	PO Box 260, Highmore 57345 hydehwy@venturecomm.net	(605)-852-2518	870-1020
Kingsbury	Dave Sorenson	PO Box 55, Desmet 57231 kingsbury@qwestoffice.net	(605)-854-3491	203-0693
Marshall	Dustin Hofland	10844 423rd Ave, Britton 57430 mchwysupt@venturecomm.net	(605)-448-2301	448-3021
McPherson	Glenn Spitzer	PO Box 30, Leola 57456 mcphersonhwy@valleytel.net	(605)-439-3667	380-0491
Roberts	Pat Stickland	11901 BIA HWY 700, Sisseton 57262 rocohwy@venturecomm.net	(605)-698-3905	880-8744
Spink	Jeff Haessig	1518 E 7th Ave, Redfield 57469 office.spinkhwy@nrctv.com	(605)-472-5008	460-1389

DEPARTMENT OF TRANSPORTATION CONTACT

Todd Hertel, Watertown Area Engineering Supervisor, South Dakota Department of Transportation, 5000 9th Avenue SE, Watertown, SD 57201 phone # (605) 882-5166

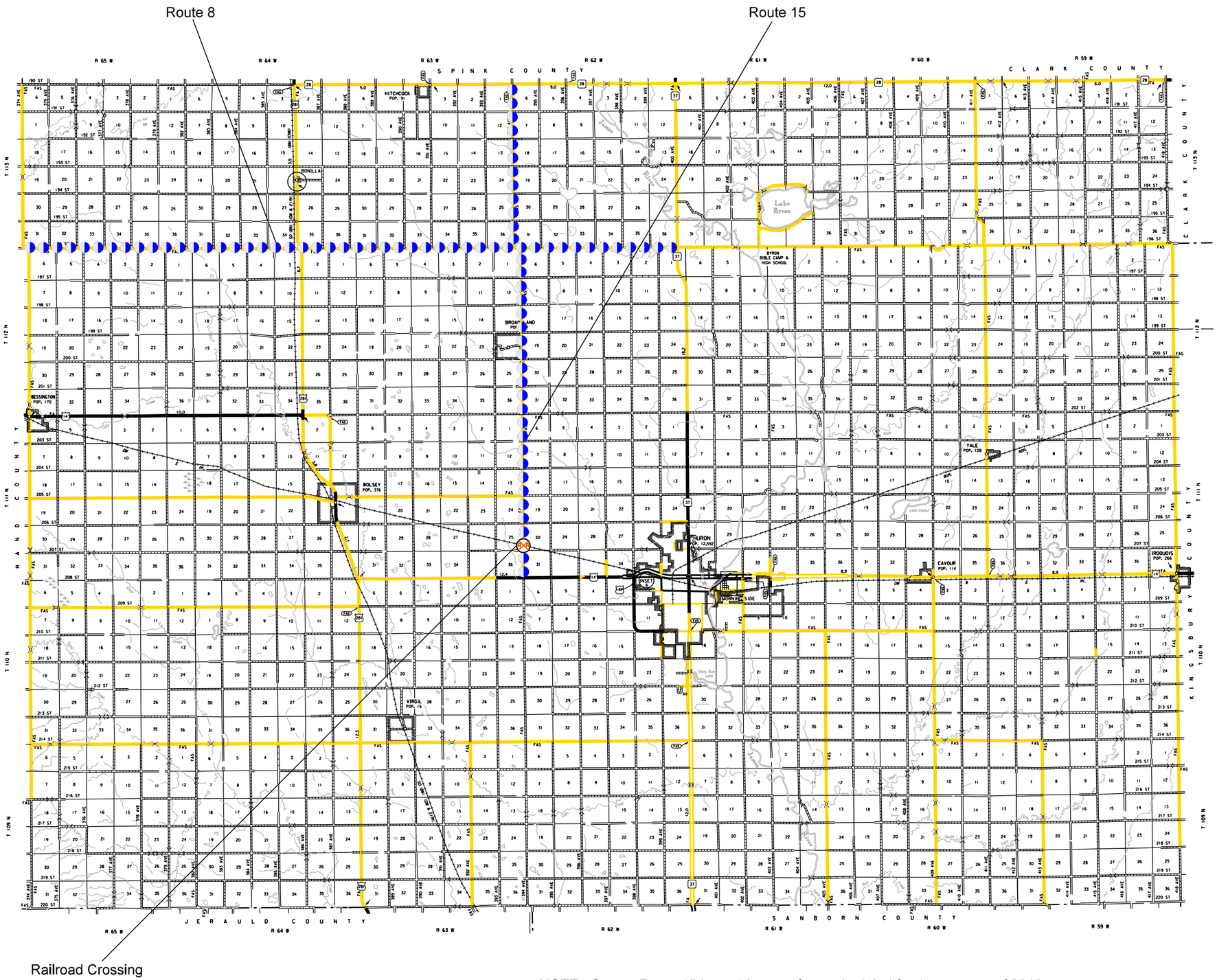
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	6	30

Plotting Date: 01/27/2016

PLOT SCALE - 1:200

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

BEADLE COUNTY



42.0 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL

1 RAILROAD CROSSING

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

NOTE: County Route 15 has a blotter suface scheduled for the summer of 2016.
The Contractor shall contact the County Highway Superintendent to schedule the pavement marking.

FILE - ...\ABERDEEN\DESIGN\BEADLE.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	7	30

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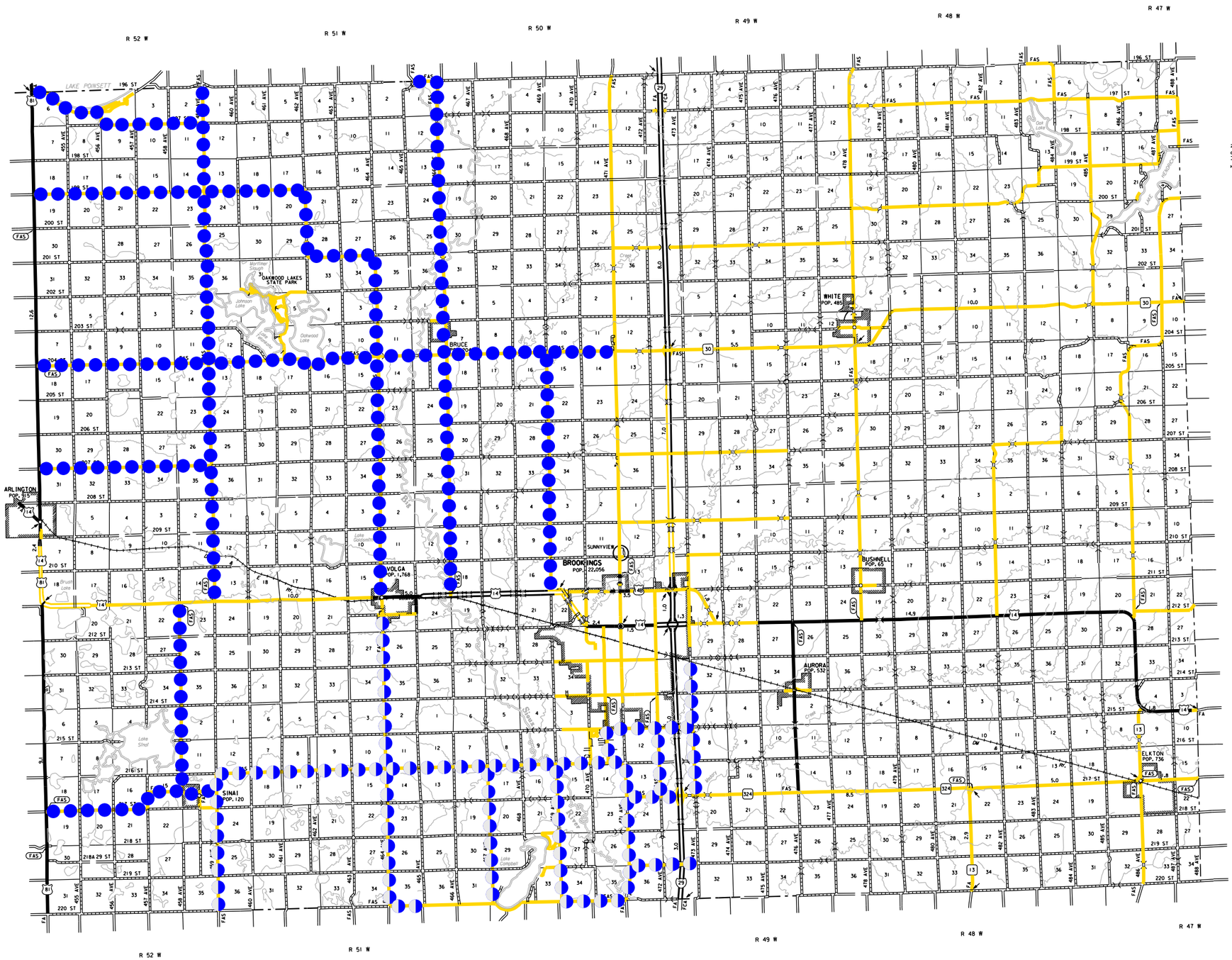
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

BROOKINGS COUNTY



53.0 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL

79.0 MILES OF CENTERLINE & EDGELINE

N

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\BROOKINGS.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	8	30

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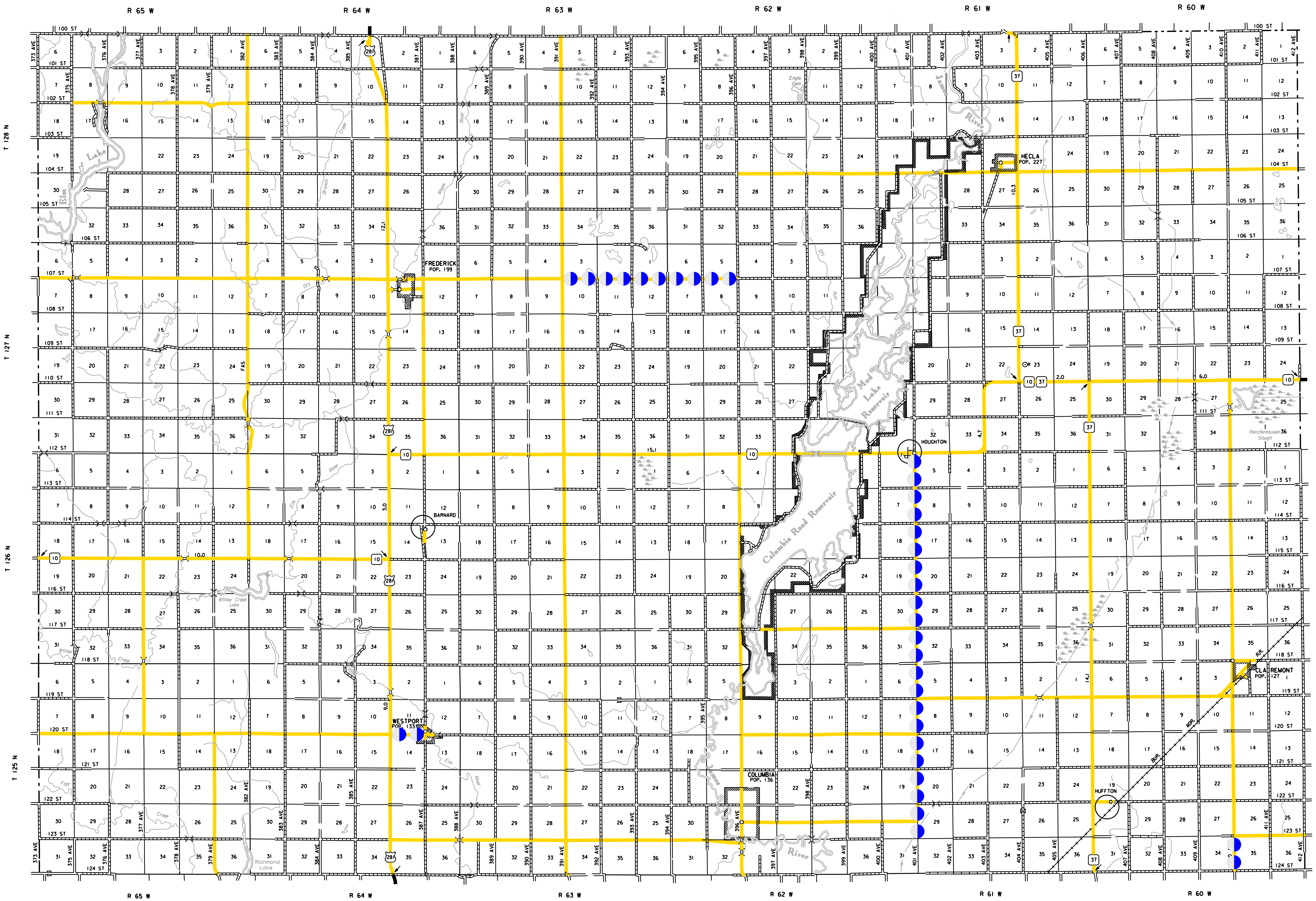
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

BROWN COUNTY (North)



N

60.0 MILES OF CENTERLINE & EDGELINE
NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\BROWN N.DGN

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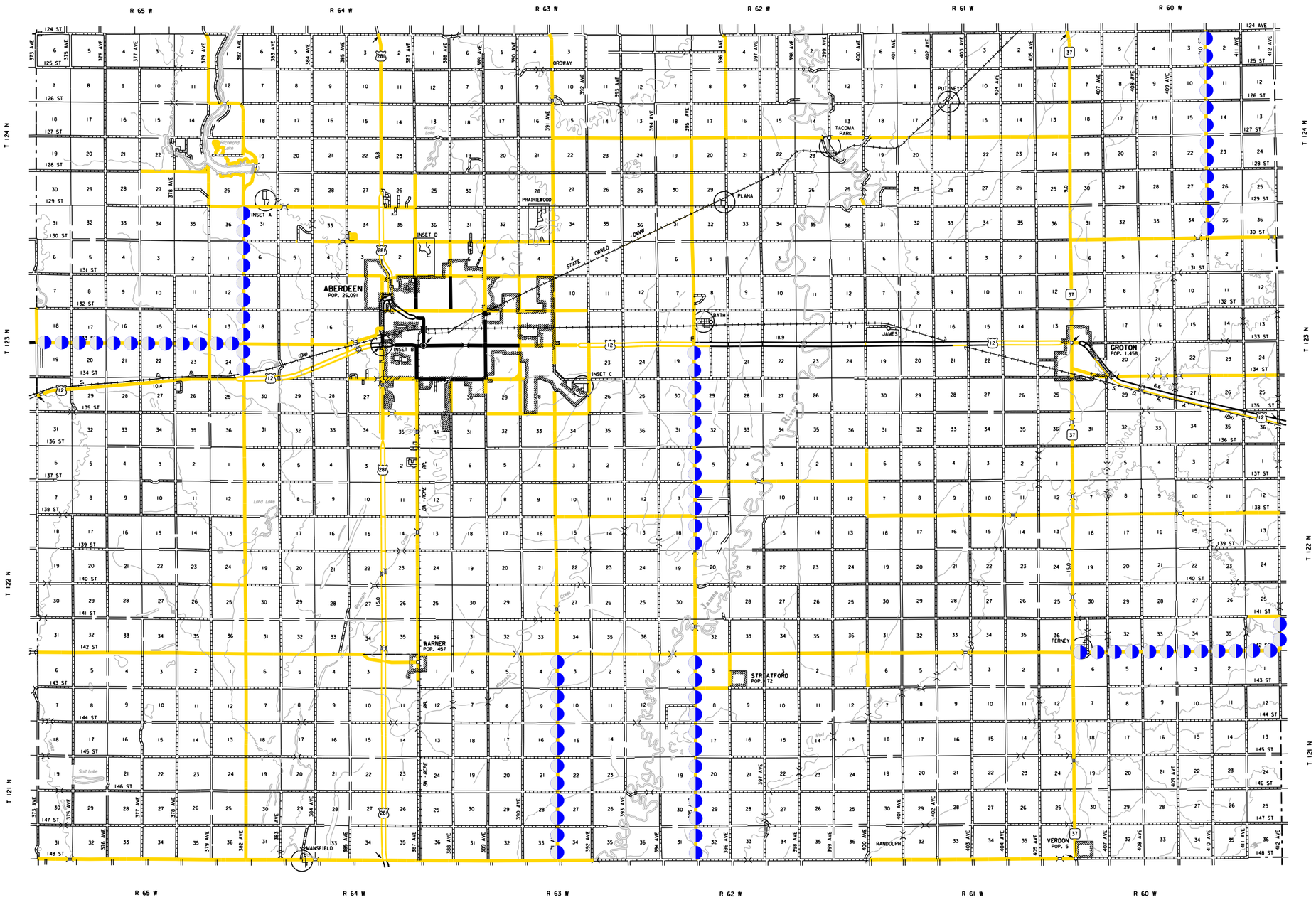
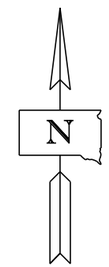
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

BROWN COUNTY (South)





60.0 MILES OF CENTERLINE & EDGELINE
NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\BROWN S.DGN

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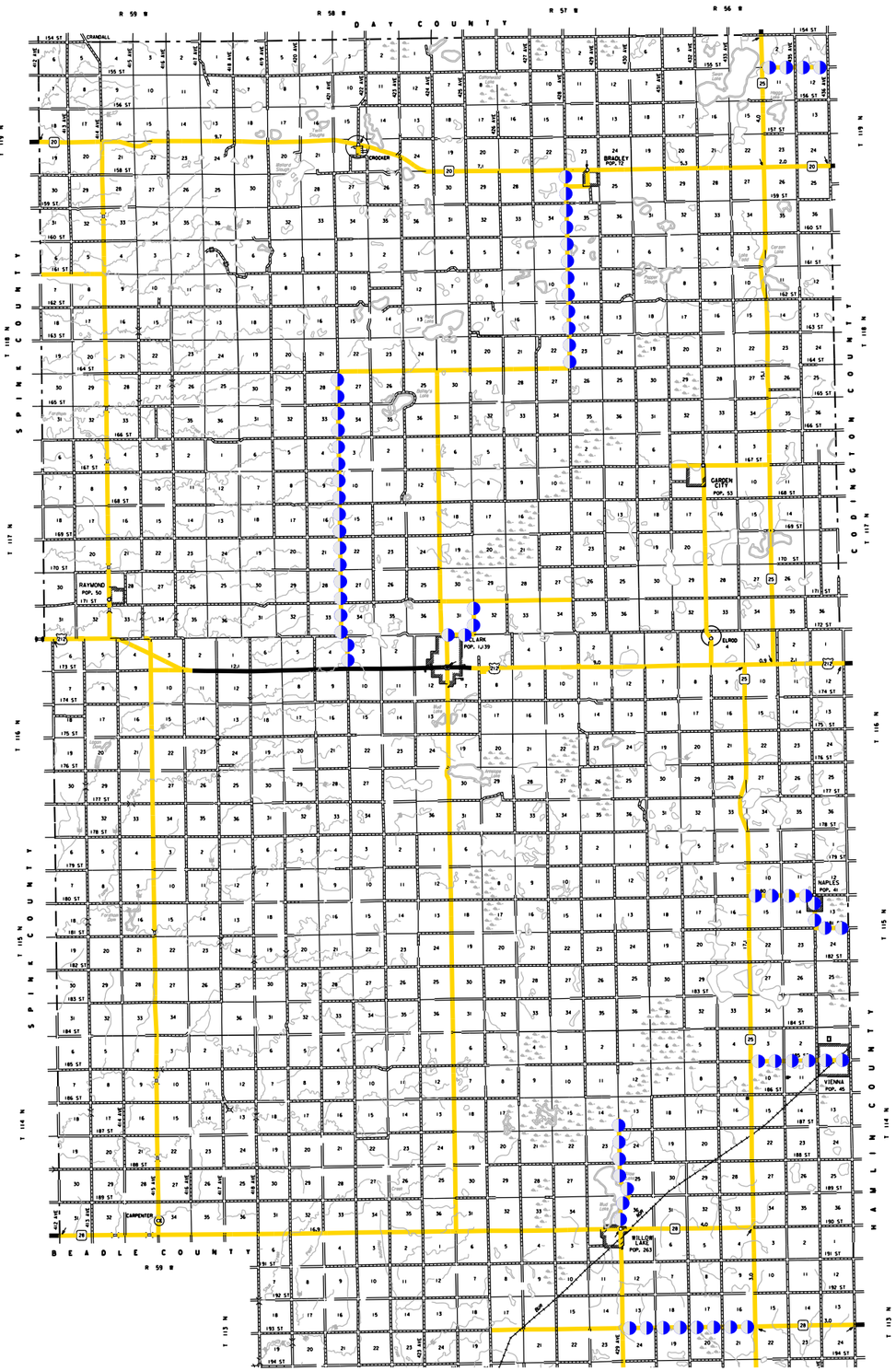
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

CLARK COUNTY



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33.0 MILES OF CENTERLINE & EDGELINE
NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\CLARK.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	11	30

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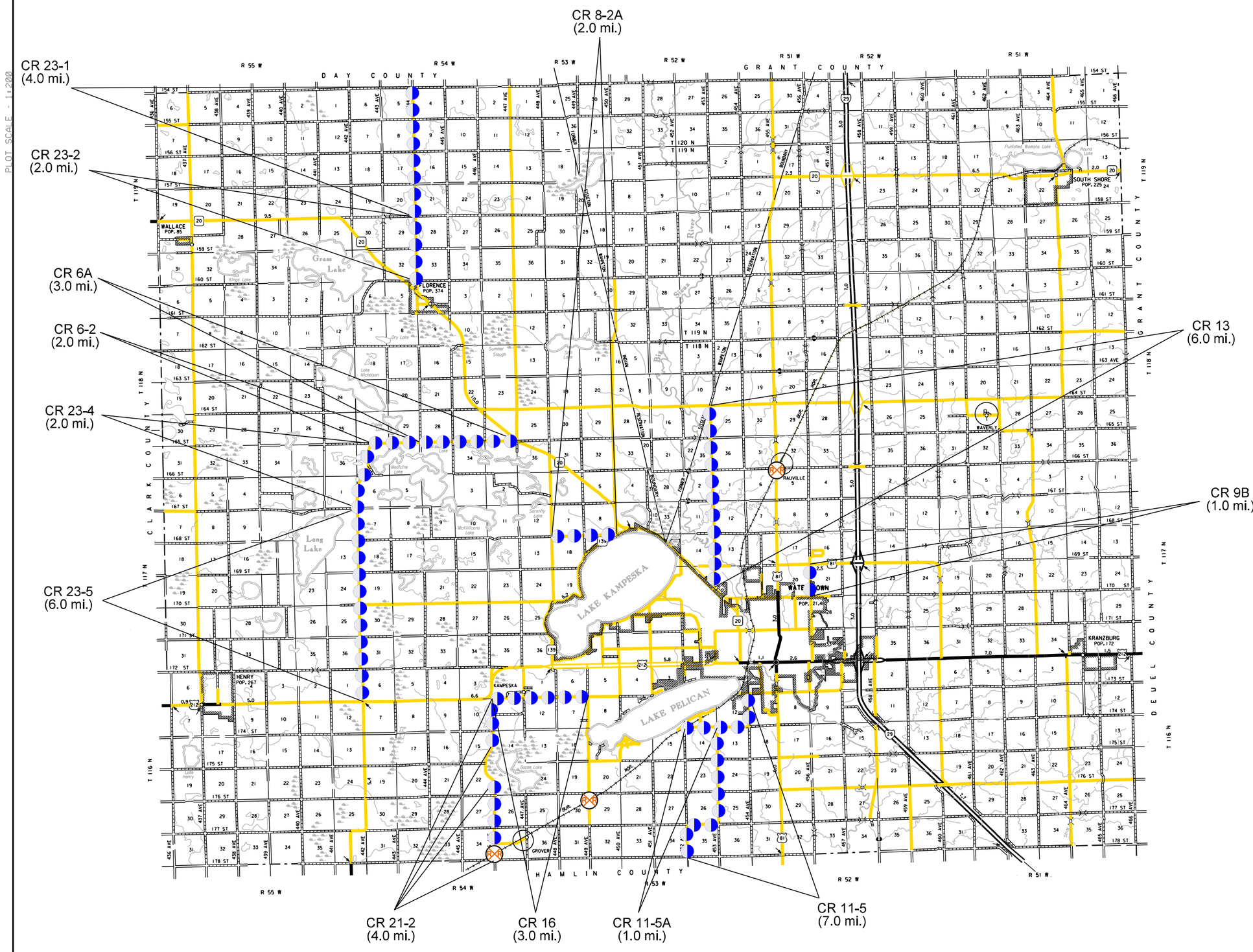
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

CODINGTON COUNTY

NEW CHIP SEAL ROADS



53.5 MILES OF CENTERLINE & EDGELINE
43.0 MILES NEW CHIP SEAL &
10.5 MILES NEW MAT

9.0 MILES OF CENTERLINE & EDGELINE

15.0 MILES OF CENTERLINE ONLY

3 RAILROAD CROSSINGS

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\DESIGN\CODINGTON CS.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	12	30

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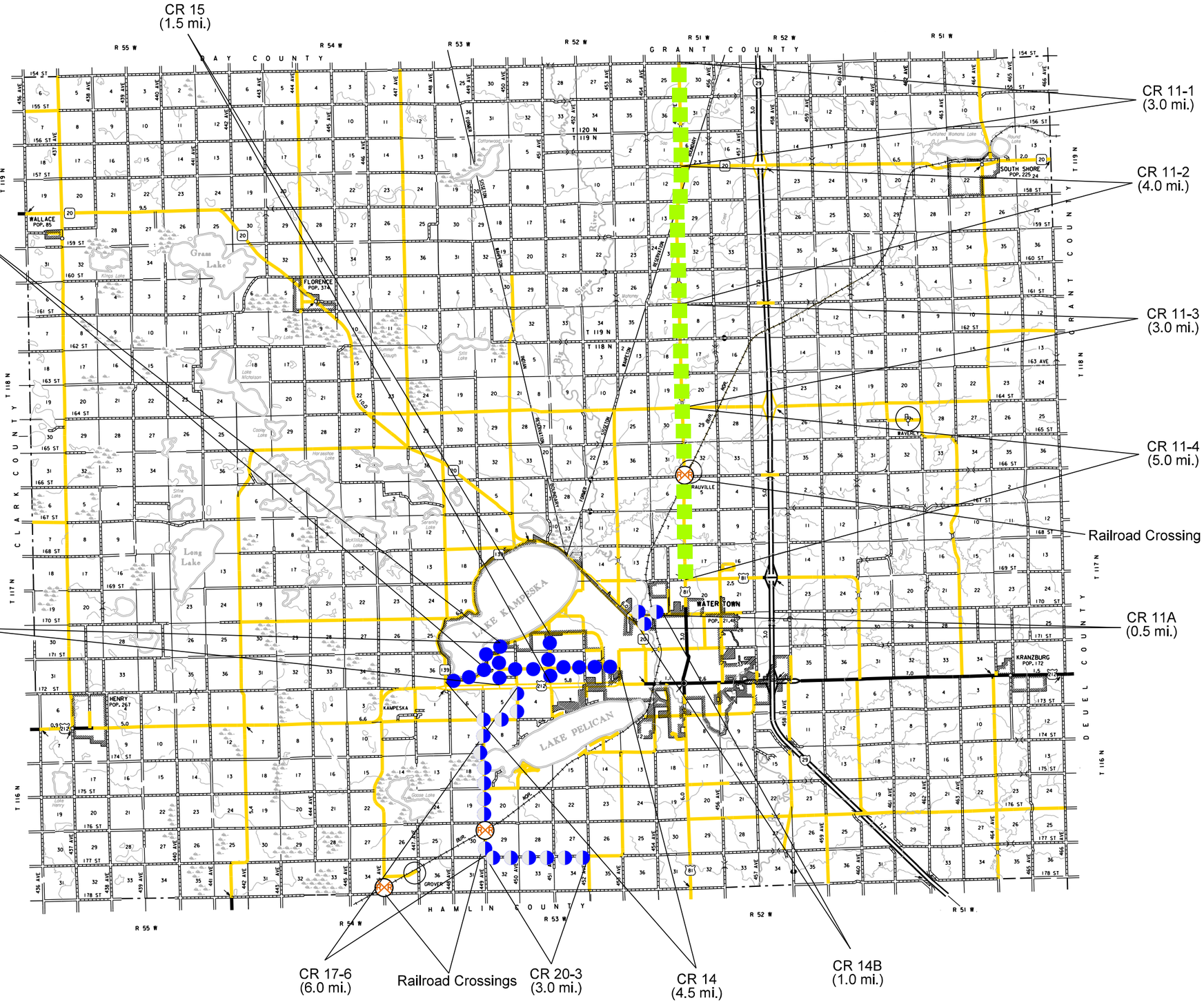
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

CODINGTON COUNTY



53.5 MILES OF CENTERLINE & EDGELINE
10.5 MILES NEW MAT &
43.0 MILES NEW CHIP SEAL

9.0 MILES OF CENTERLINE & EDGELINE

15.0 MILES OF CENTERLINE ONLY

3 RAILROAD CROSSINGS

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\CODINGTON.DGN

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	P 000S(00)009	13	30

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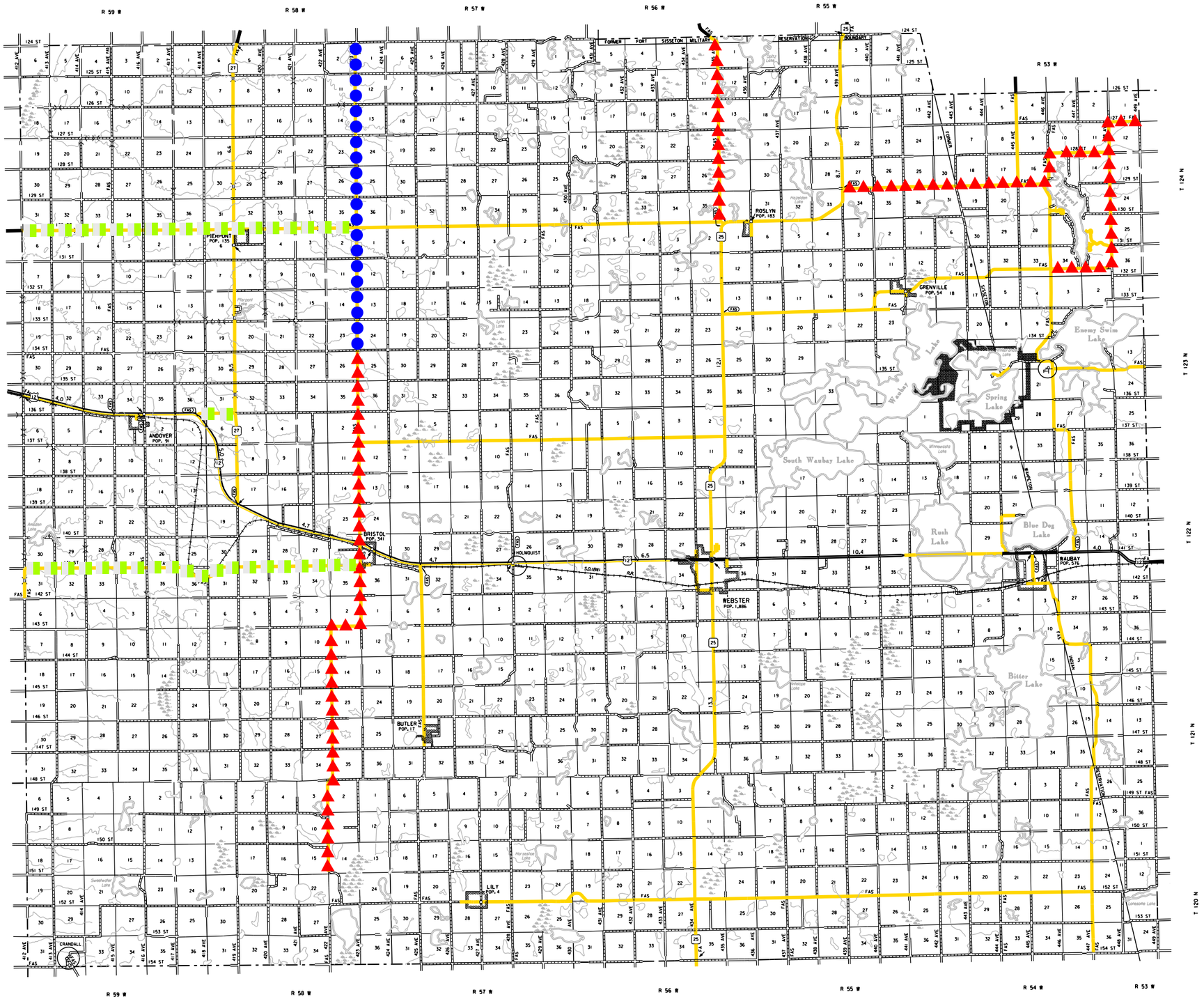
SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

DAY COUNTY



10.0 MILES OF CENTERLINE & EDGELINE

23.0 MILES OF CENTERLINE ONLY
NEW CHIP SEAL

43.0 MILES OF EDGELINE ONLY

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

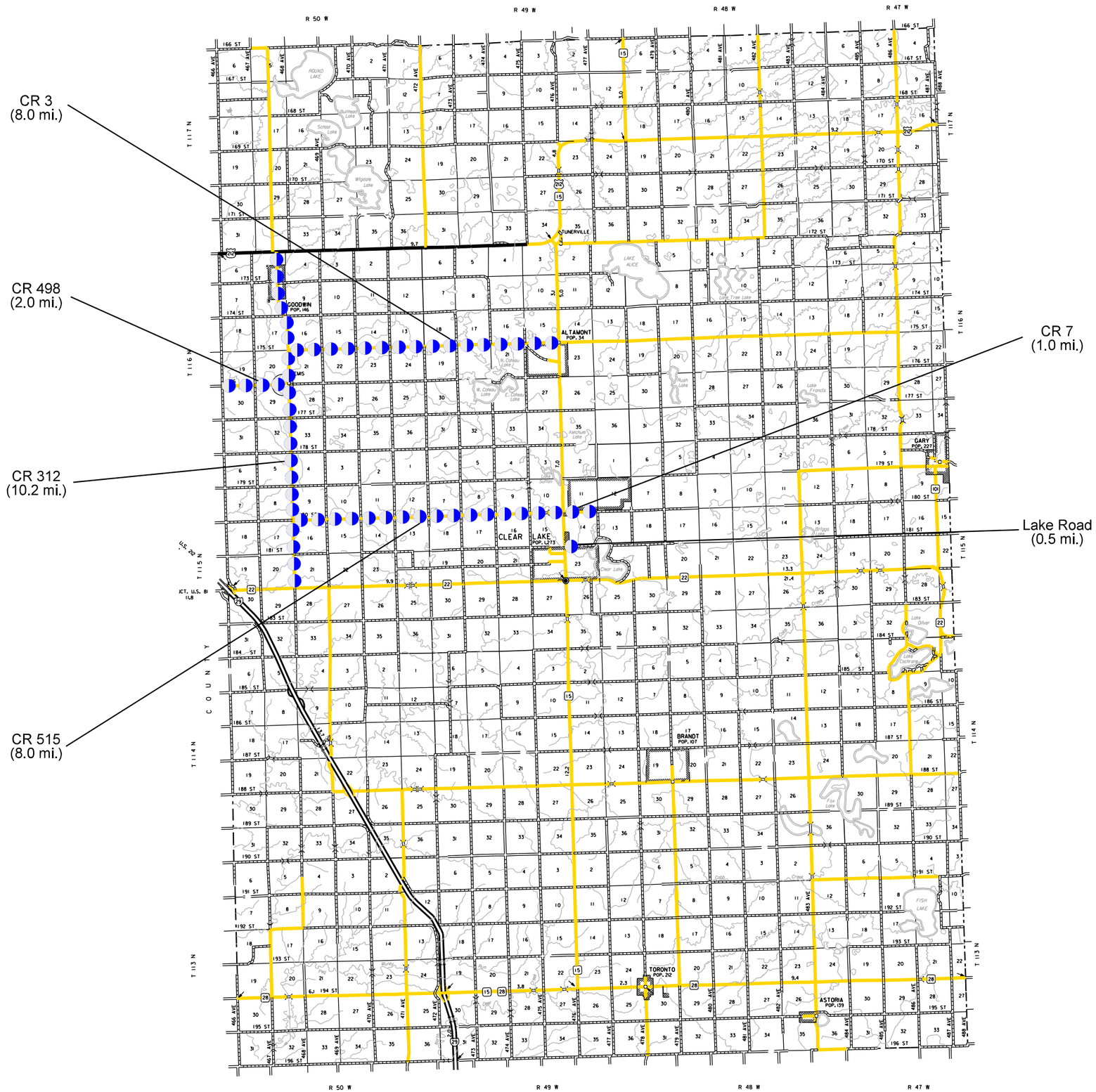
FILE - ...\ABERDEEN\DESIGN\DAY COUNTY.DGN

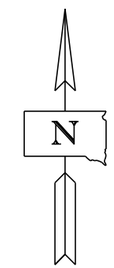
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	14	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

DEUEL COUNTY





29.7 MILES OF CENTERLINE & EDGELINE
NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\DESIGN\DEUEL COUNTY.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	15	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

EDMUNDS COUNTY

23.5 MILES OF CENTERLINE ONLY

1 RAILROAD CROSSING

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

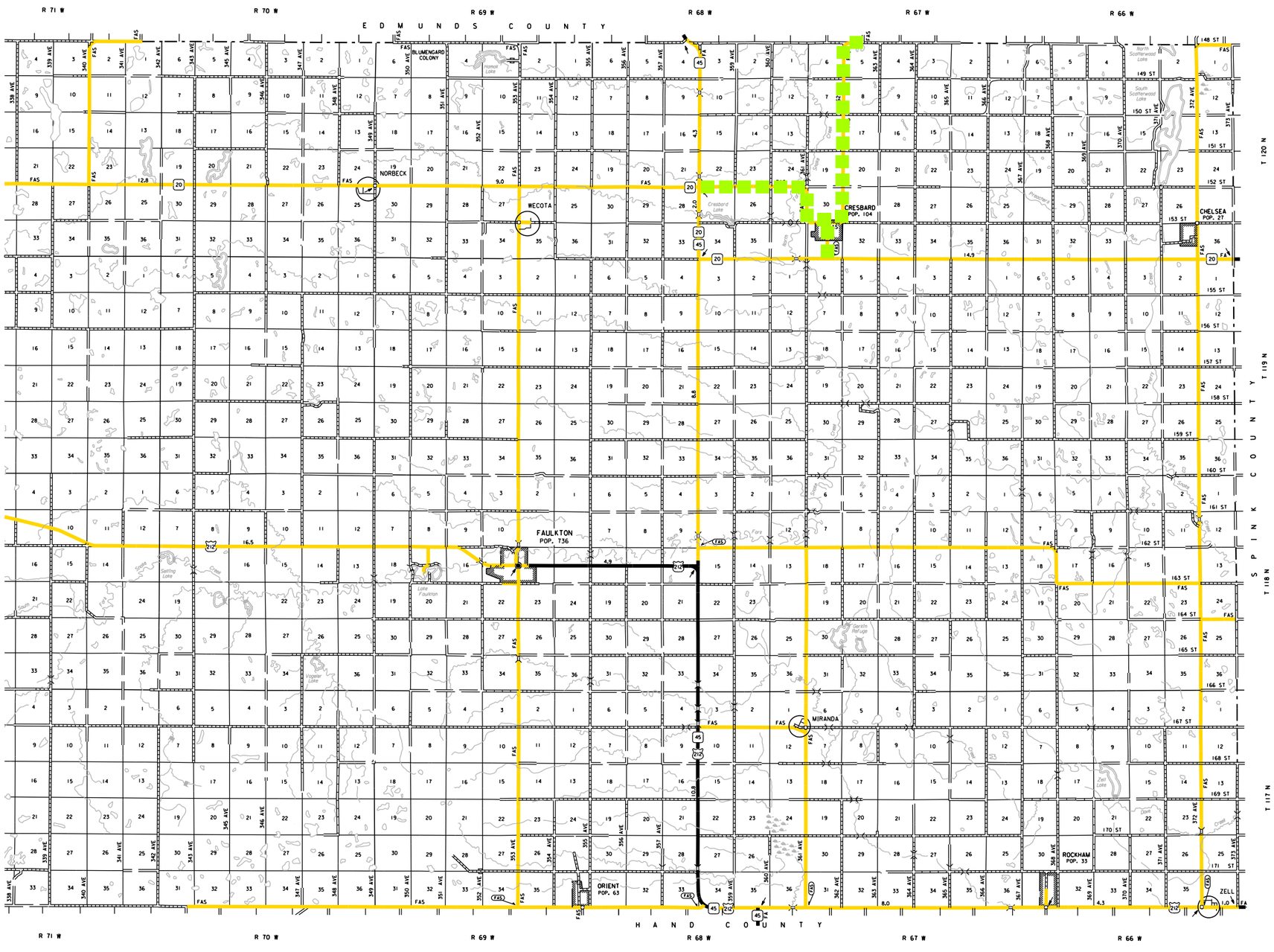
FILE - ...\ABERDEEN\DESIGN\EDMUNDS.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	16	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

FAULK COUNTY



N

11.5 MILES OF CENTERLINE ONLY

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

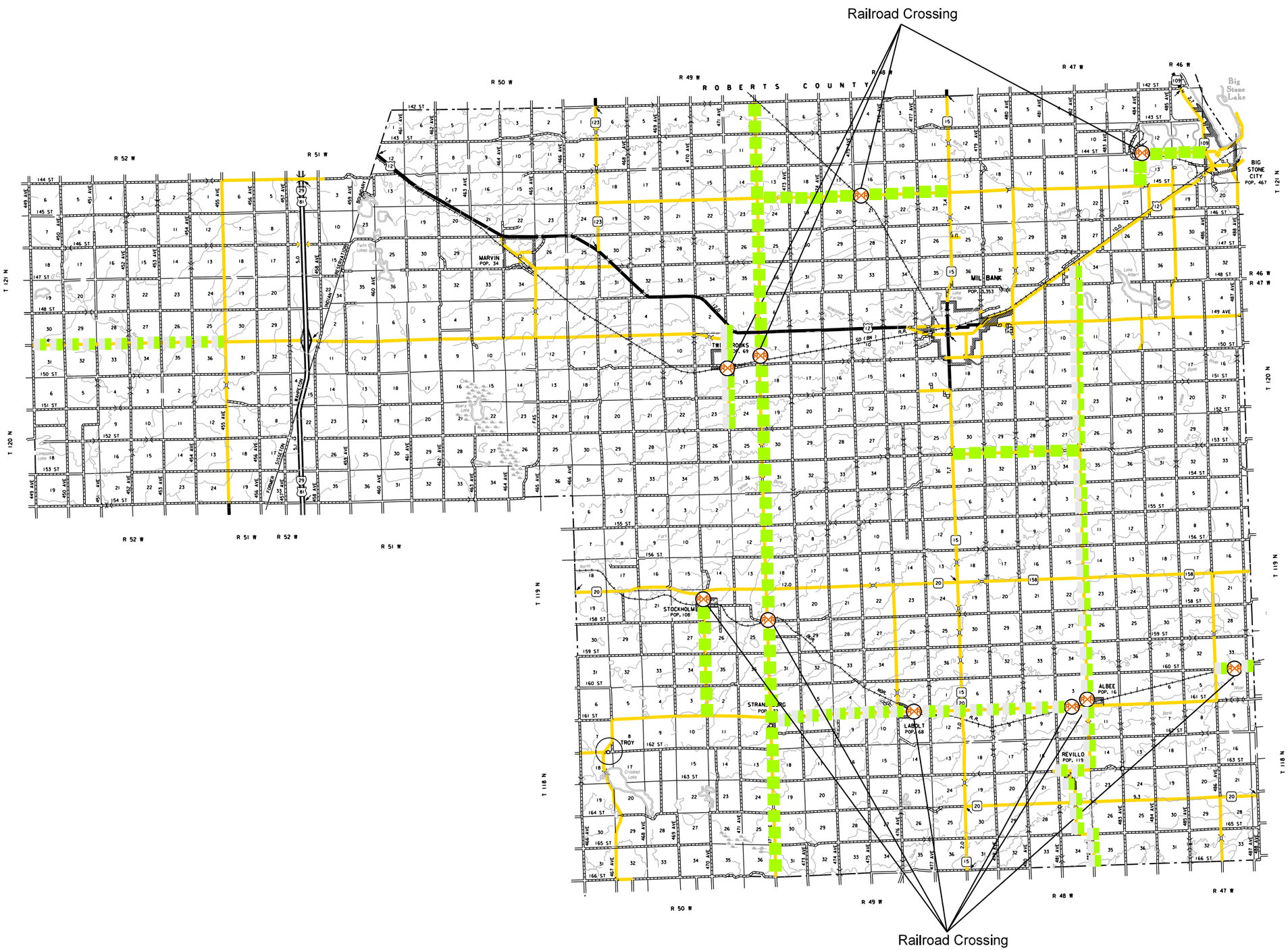
FILE - ...\ABERDEEN\DESIGN\FAULK.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	17	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

GRANT COUNTY



41.5 MILES OF CENTERLINE ONLY
NEW CHIP SEAL & MAT

41.0 MILES OF CENTERLINE ONLY

10 RAILROAD CROSSINGS

1 TURN LANE
(contact County for location)

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESIGN\GRANT.DGN

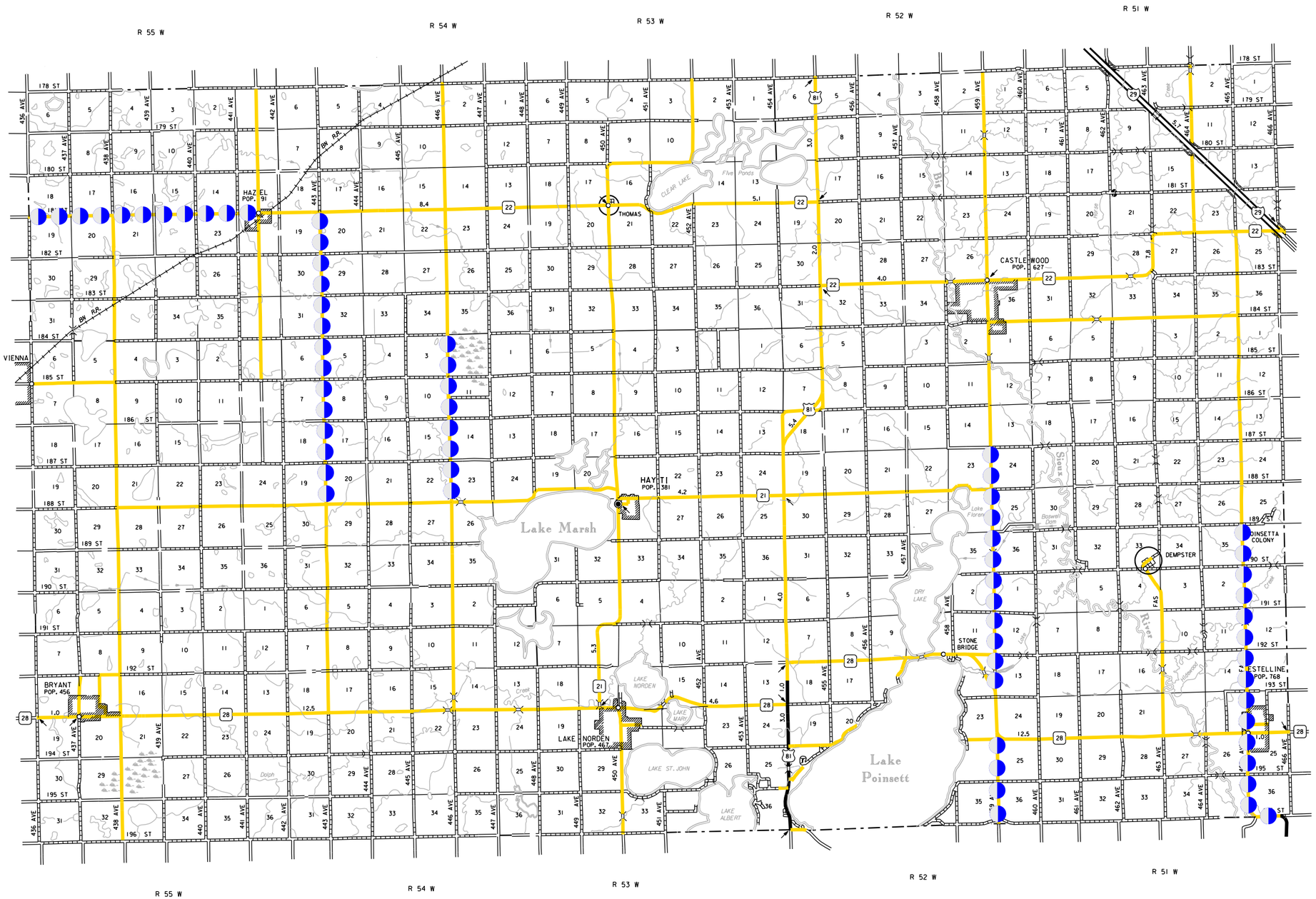
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	18	30

Plotting Date: 01/27/2016

PLOT SCALE - 1:200

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

HAMLIN COUNTY



LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

31.6 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL & MAT

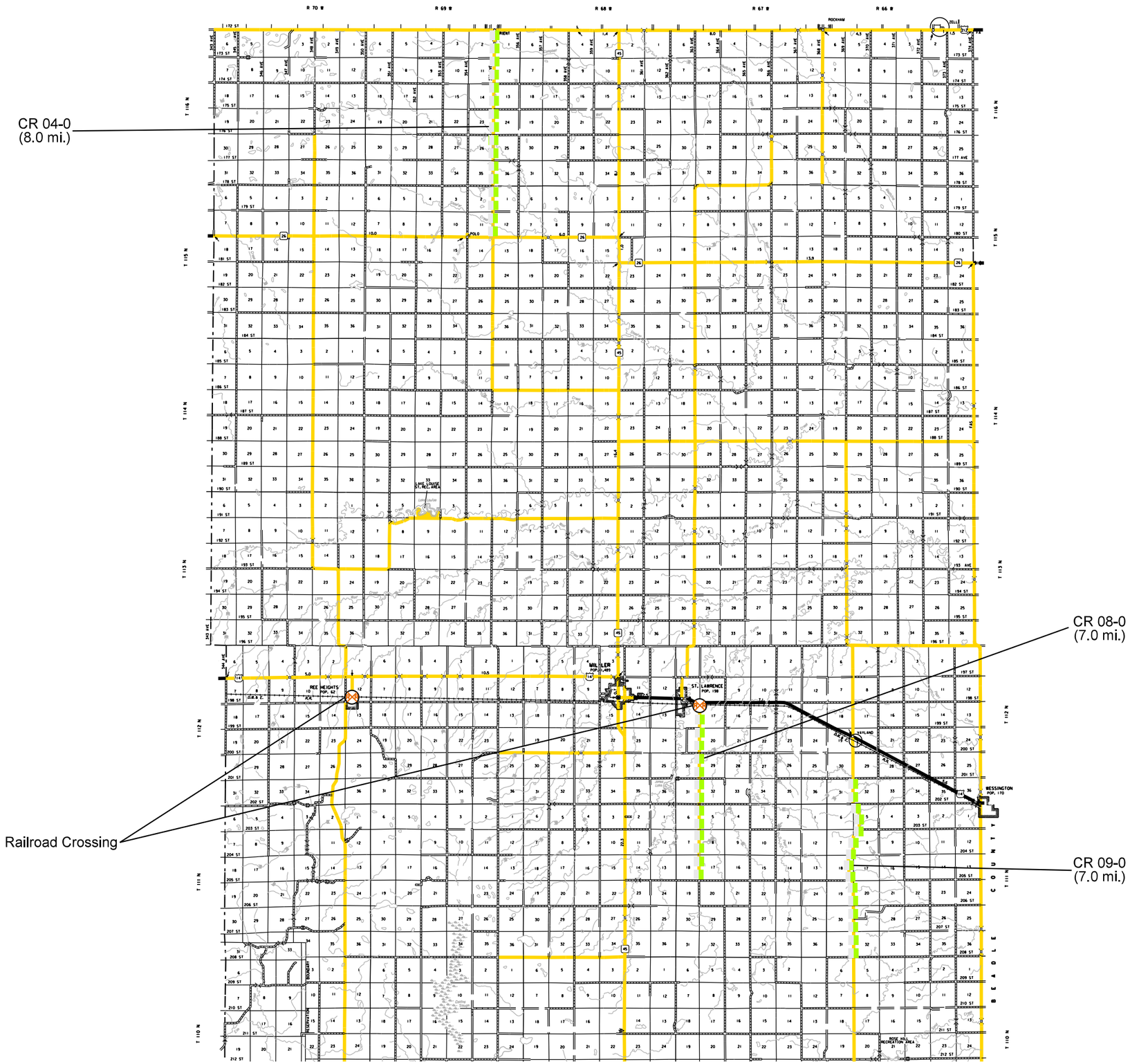
FILE - ...\ABERDEEN\DESTON\HAMLIN.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	19	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

HAND COUNTY



N

22.0 MILES OF CENTERLINE ONLY
NEW CHIP SEAL

2 RAILROAD CROSSINGS

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

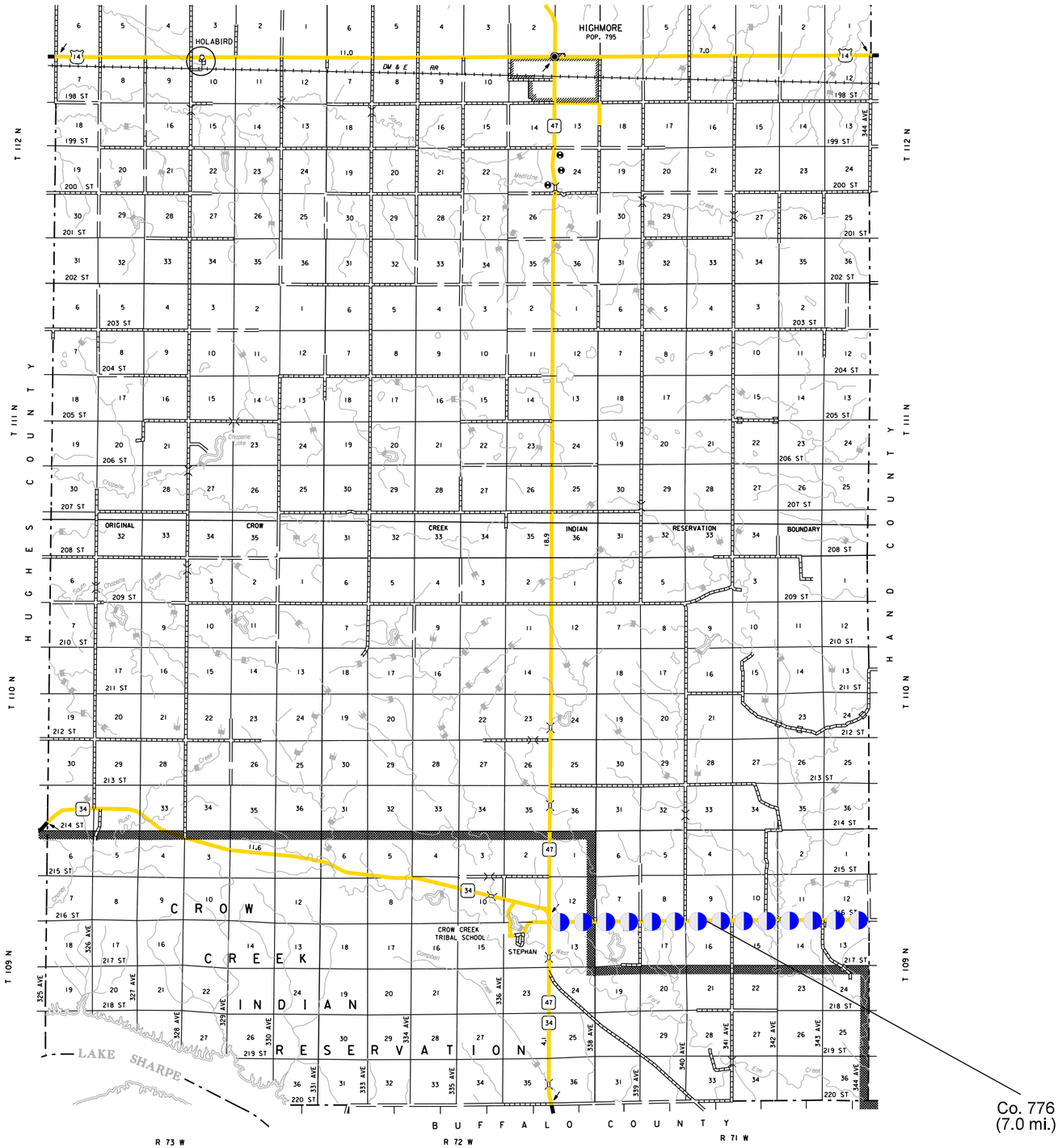
FILE - ...\ABERDEEN\DESIGN\HAND CO.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	20	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

HYDE COUNTY



N

7.0 MILES OF CENTERLINE & EDGELINE
NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

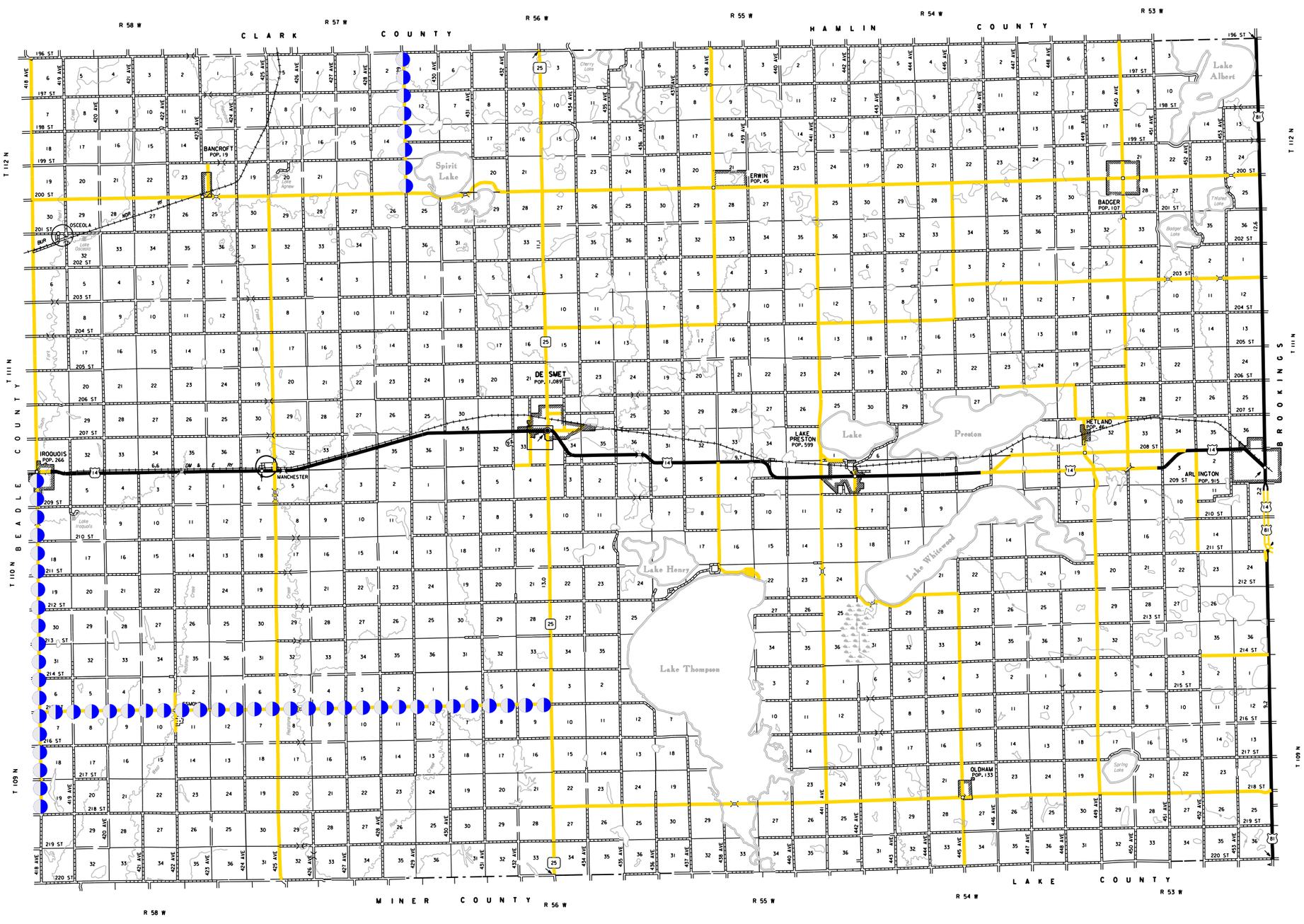
FILE - ...\ABERDEEN\DESIGN\HYDE CO.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	21	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

KINGSBURY COUNTY



30.0 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

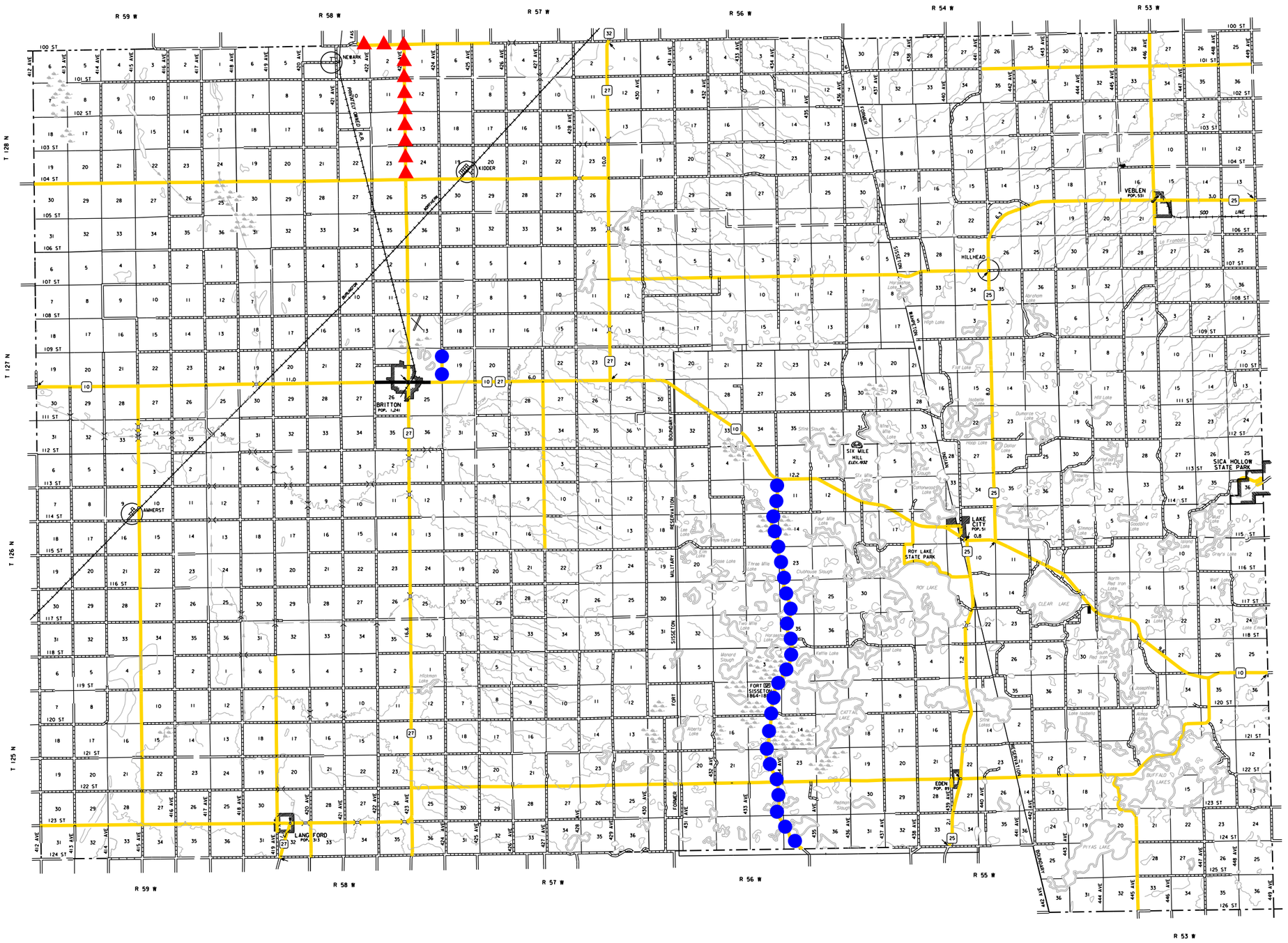
FILE - ...\ABERDEEN\DESIGN\KINGSBURY.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	22	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

MARSHALL COUNTY



N

13.5 MILES OF CENTERLINE & EDGELINE

5.0 MILES OF EDGELINE ONLY

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

FILE - ...\ABERDEEN\DESTION\MARSHALL.DGN

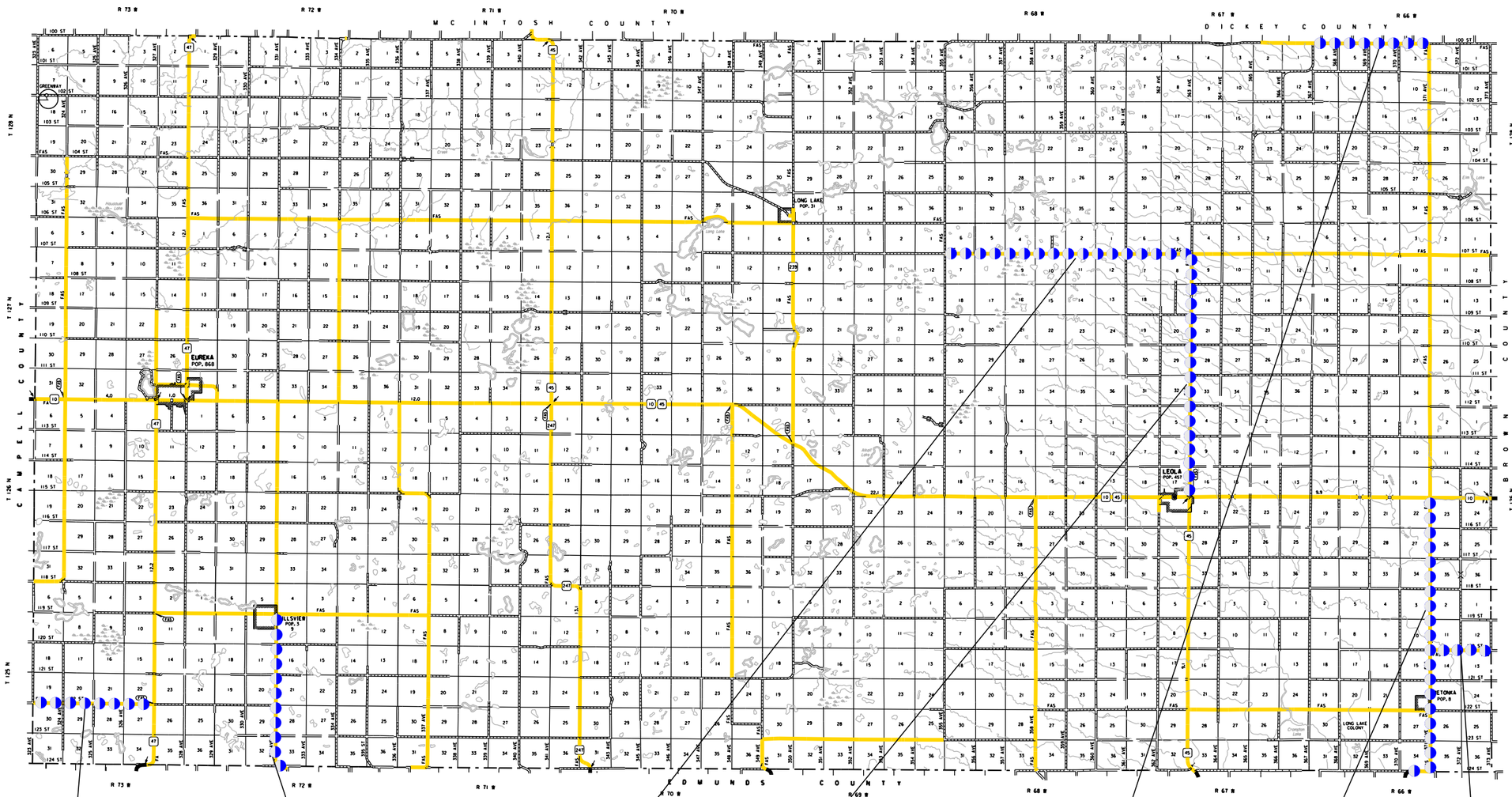
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	23	30

Plotting Date: 01/27/2016

PLOT SCALE - 1:200

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

MCPHERSON COUNTY



Co. 16 (4.0 mi.)

Co. 5 (5.5 mi.)

Co. 8 (8.0 mi.)

Co. 19 (8.0 mi.)

Co. 2 (4.0 mi.)

Co. 23 (9.5 mi.)

Co. 18 (2.0 mi.)

N

41.0 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

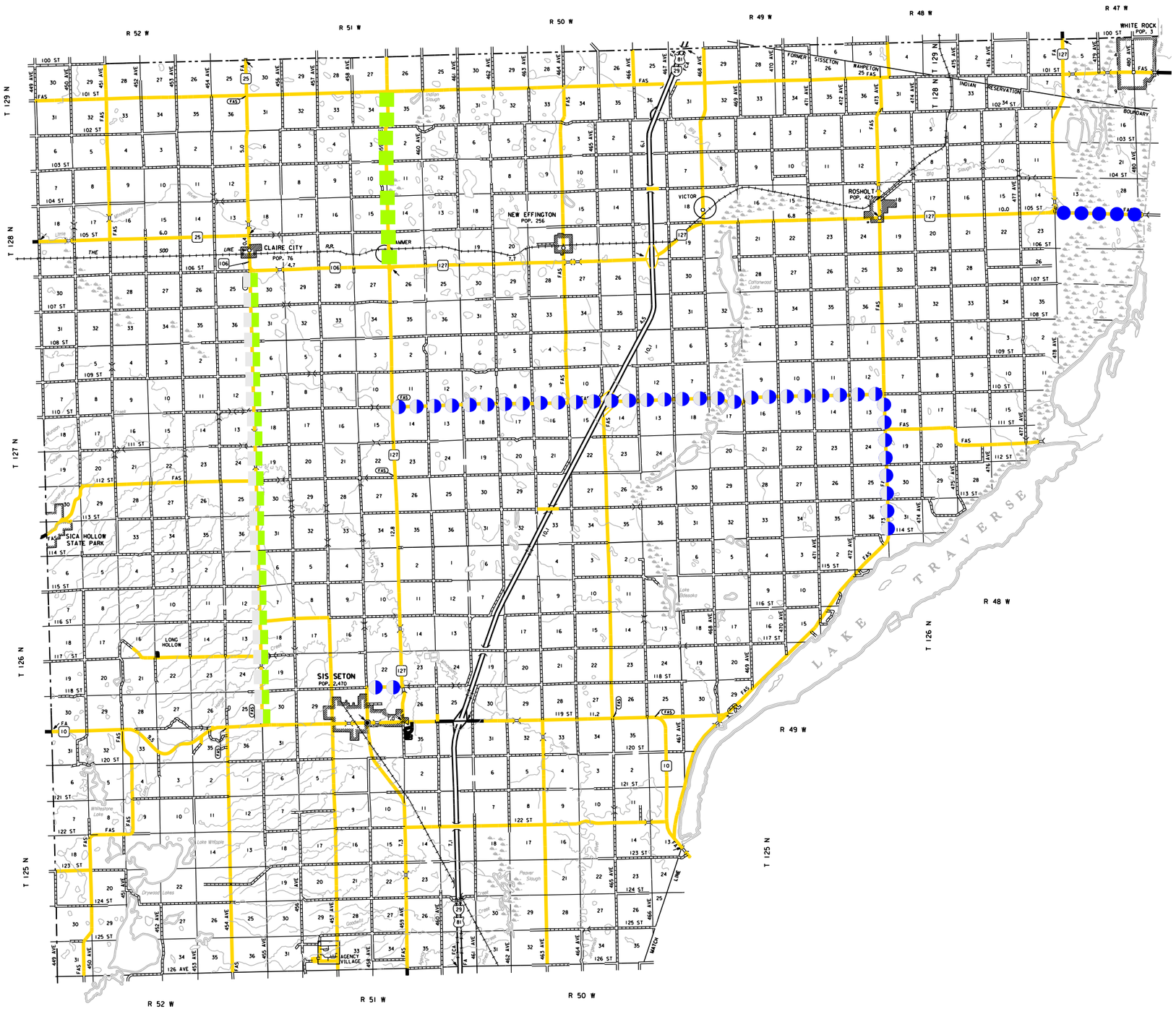
FILE - ...\ABERDEEN\DESIGN\MCPHERSON.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	24	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

ROBERTS COUNTY (North)



33.0 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL

2.0 MILES OF CENTERLINE & EDGELINE

50.0 MILES OF CENTERLINE ONLY

13.0 MILES OF CENTERLINE ONLY NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

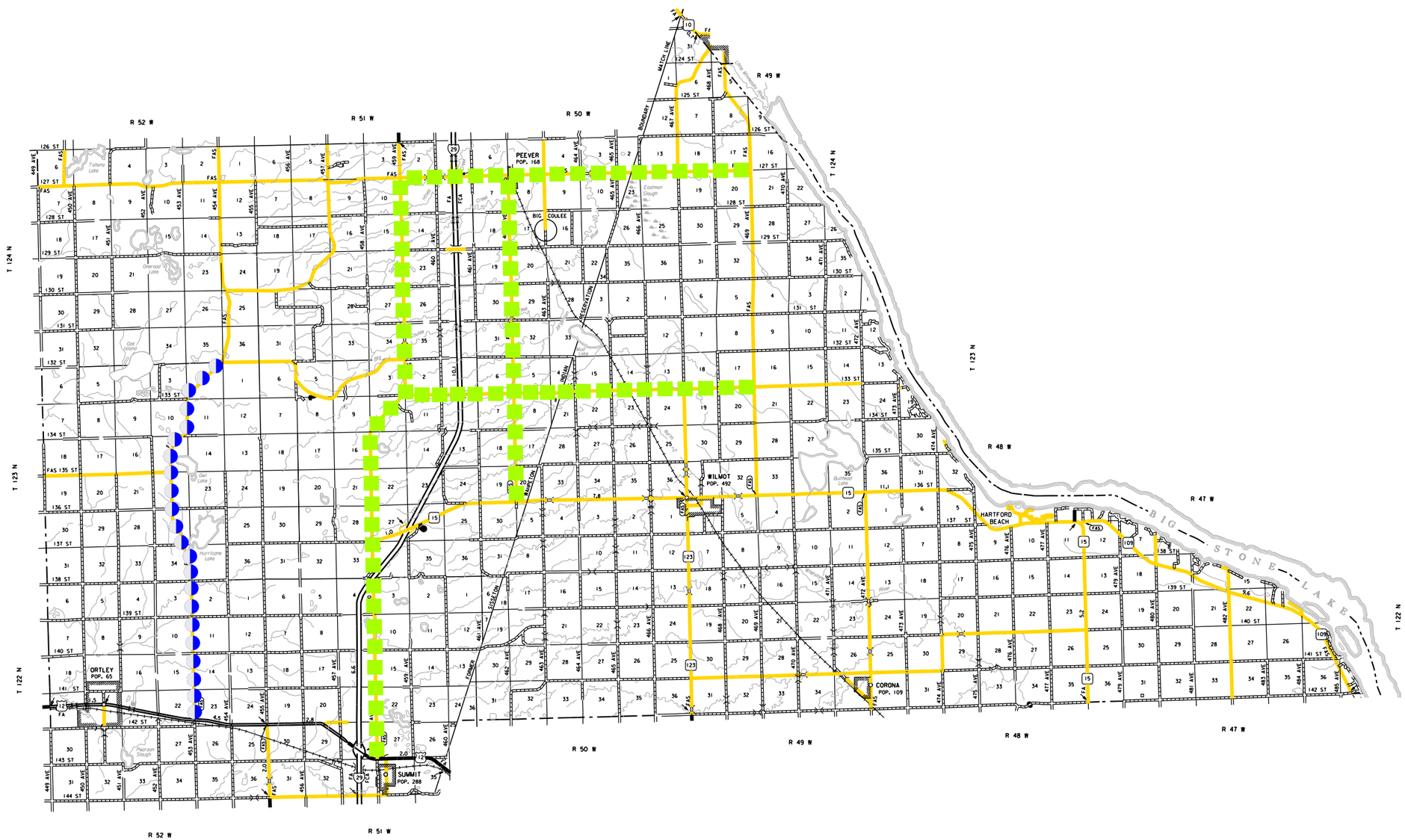
FILE - ...\ABERDEEN\DESIGN\ROBERTS N.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	25	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

ROBERTS COUNTY (South)



N

33.0 MILES OF CENTERLINE & EDGELINE NEW CHIP SEAL

2.0 MILES OF CENTERLINE & EDGELINE

50.0 MILES OF CENTERLINE ONLY

13.0 MILES OF CENTERLINE ONLY NEW CHIP SEAL

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

PLOT SCALE - 1:200

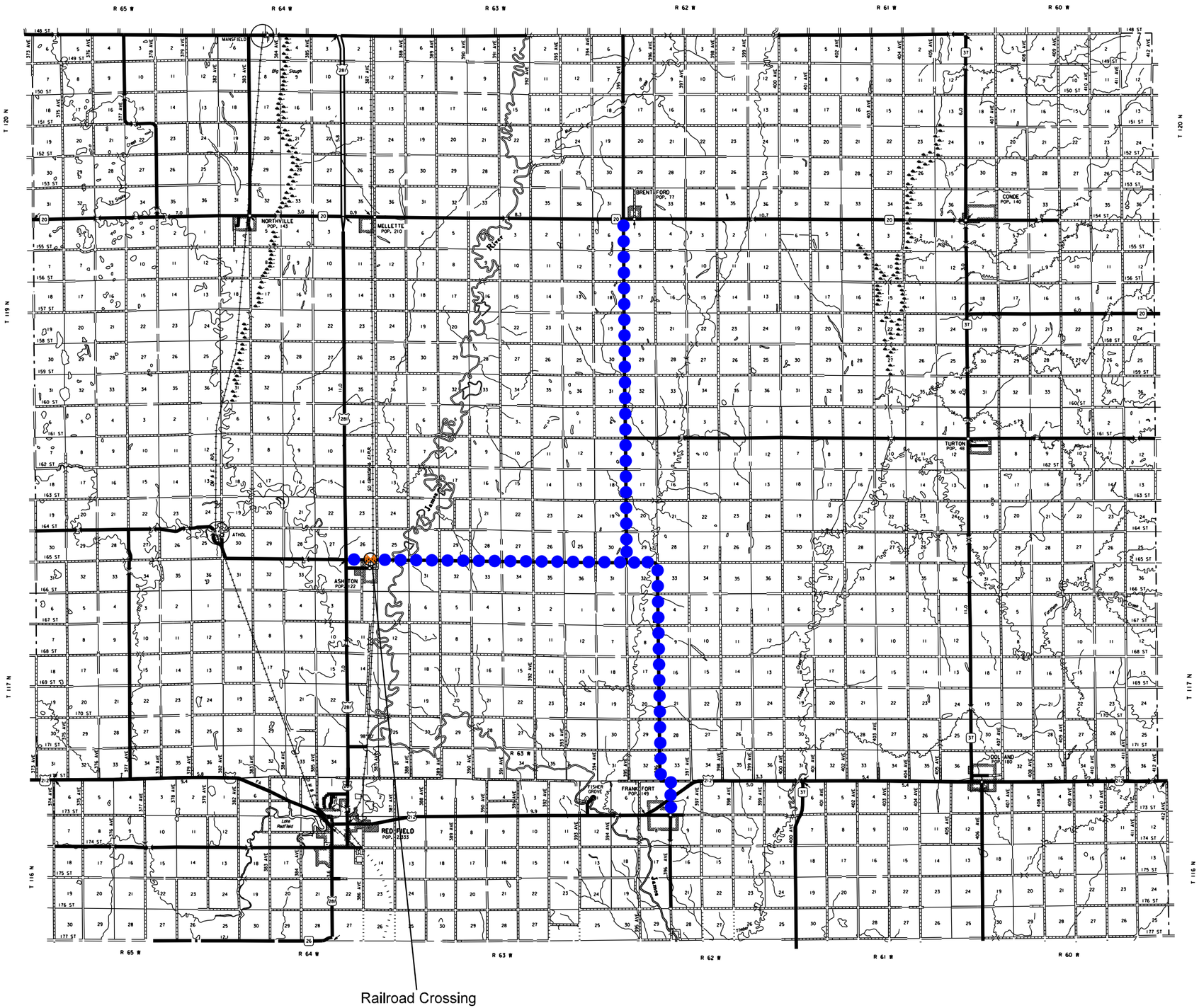
FILE - ...\ABERDEEN\DESIGN\ROBERTS S.DGN

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	26	30

Plotting Date: 01/27/2016

SOUTH DAKOTA COUNTY PAVEMENT MARKING 2016

SPINK COUNTY



N

29.0 MILES OF CENTERLINE & EDGELINE

1 RAILROAD CROSSING

LEGEND

- CENTERLINE & EDGELINES
- CENTERLINE ONLY
- EDGELINES ONLY
- RAILROAD CROSSING
- CENTERLINE & EDGELINES NEW CHIP SEAL
- CENTERLINE ONLY NEW CHIP SEAL
- EDGELINES ONLY NEW CHIP SEAL

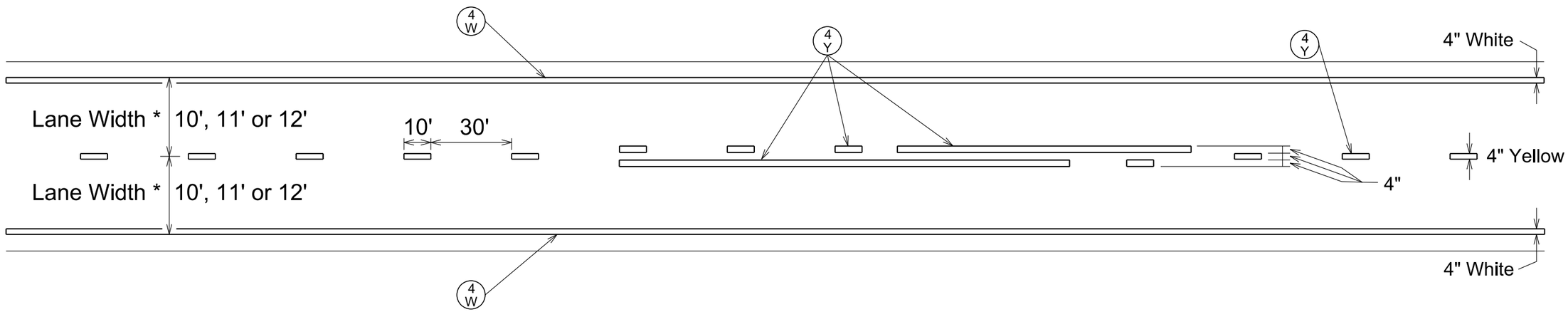
PLOT SCALE - 1:200

FILE - ...\DESIGN\SPINK COUNTY.DGN

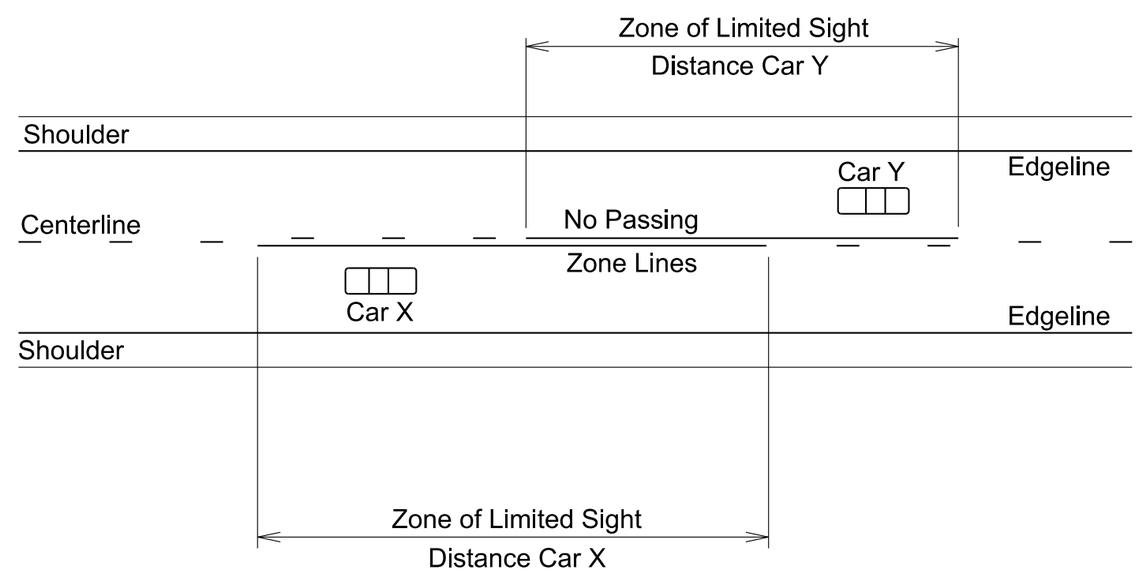
PAVEMENT MARKING DETAIL FOR COUNTY ROADS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	27	30

Plotting Date: 03/31/2014



KEY	ITEM
4 W	4" White
4 Y	4" Yellow



GENERAL NOTES:

Project centerline marking shall be applied using a three gun system.

The typical pavement marking as shown on this sheet is to be applied on the county roads of this project.

PLOT SCALE - 1:200
FILE - ...\PMDETAILREVISED.DGN

Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies.

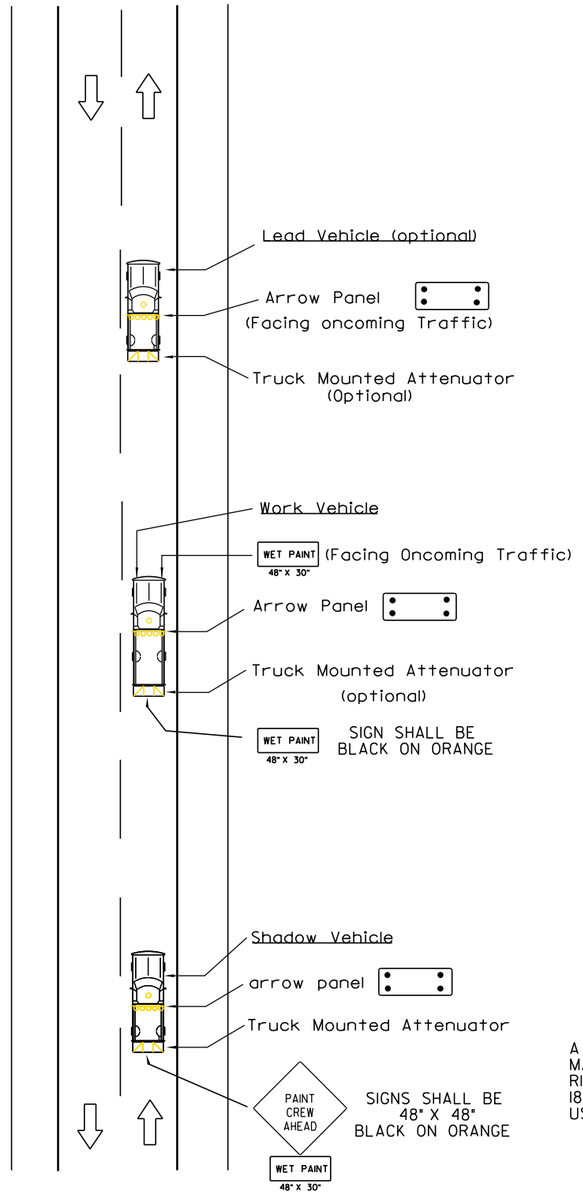
Sign legends on vehicle-mounted signs shall be covered or turned from view when work is not in progress.

Shadow and Work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights, flags, signs, or arrow panels.

Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

When an arrow panel is used, it shall be used in the caution mode. Marching Diamonds are acceptable.

Arrow panels shall, as a minimum, be Type B, with a size of 60" x 30".



A CHANGEABLE MESSAGE SIGN MAY BE USED IN PLACE OF RIGID ALUMINUM SIGNS (MIN. OF 18" LETTER HEIGHT SHALL BE USED).

GUIDES FOR TRAFFIC CONTROL DEVICES MOBILE OPERATIONS ON 2-LANE ROAD

MOBILE: Intermittent and continuously moving.

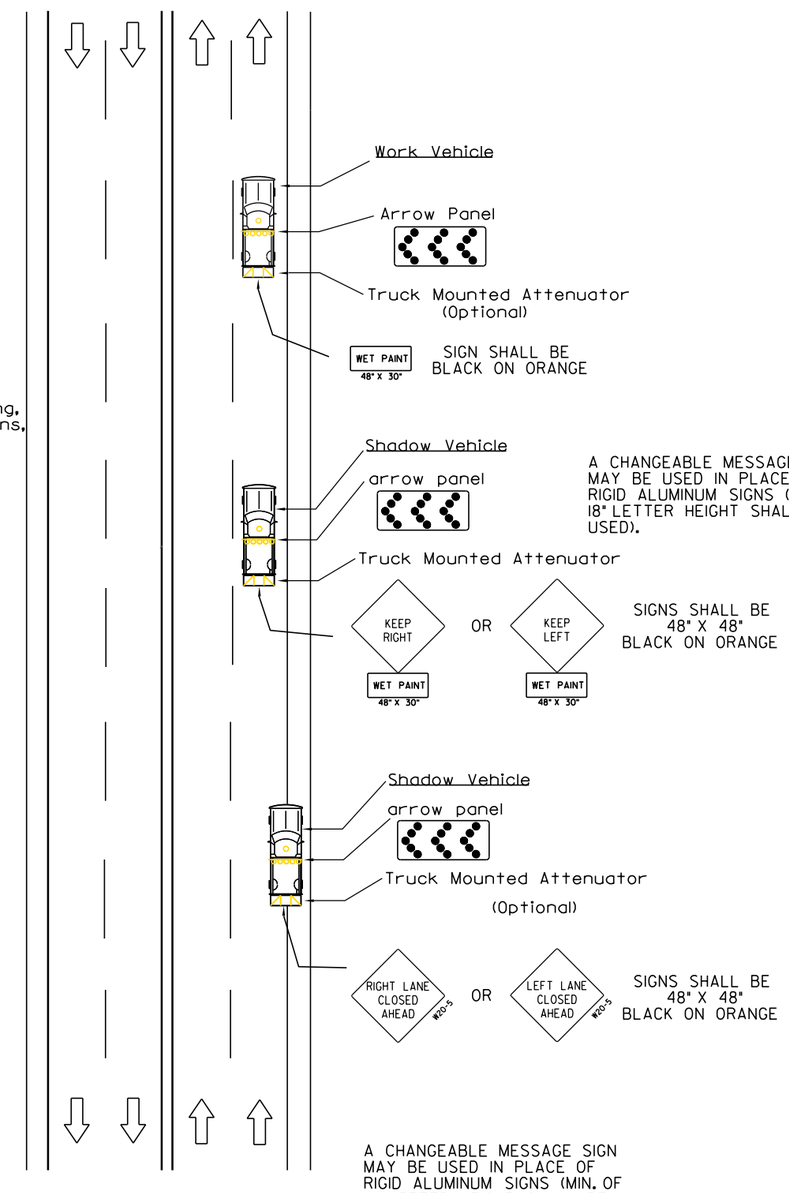
Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies.

Sign legends on vehicle-muonted signs shall be covered or turned from view when work is not in progress.

Shadow and Work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights, flags, signs, or arrow panels.

Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

Arrow panels shall, as a minimum, be Type B, with a size of 60" x 30".

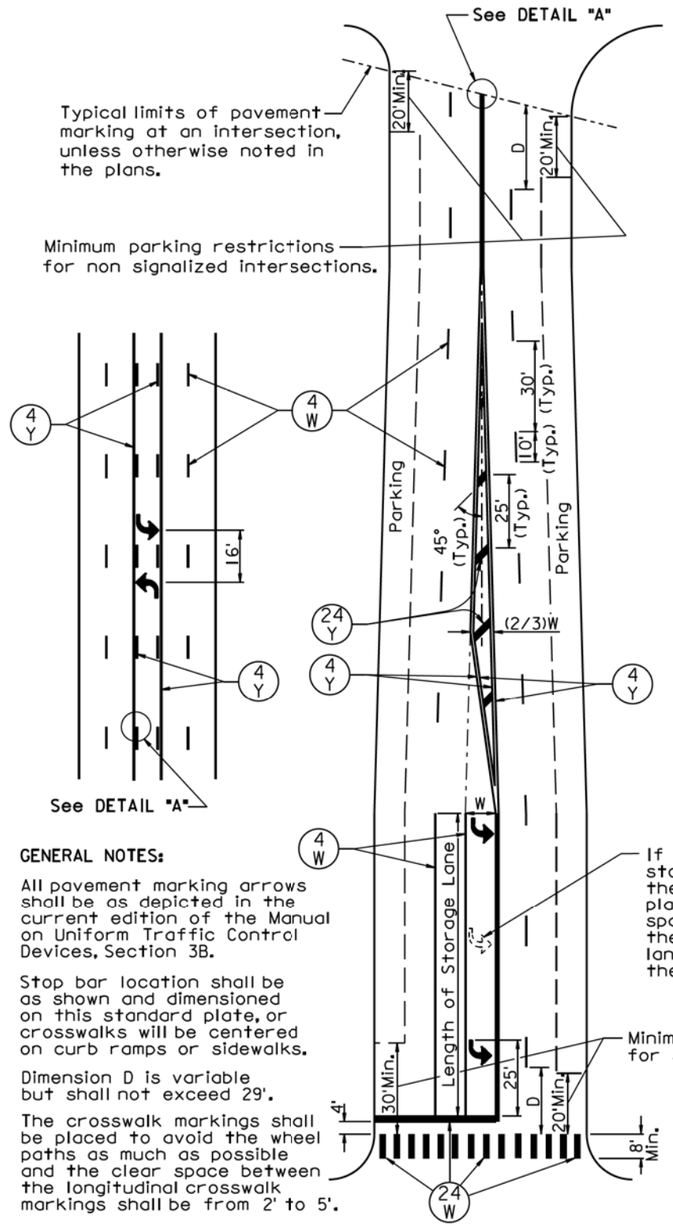


A CHANGEABLE MESSAGE SIGN MAY BE USED IN PLACE OF RIGID ALUMINUM SIGNS (MIN. OF 18" LETTER HEIGHT SHALL BE USED).

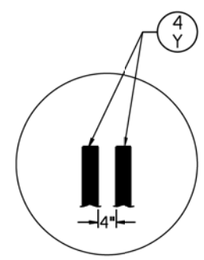
GUIDES FOR TRAFFIC CONTROL DEVICES MOBILE OPERATIONS ON 4-LANE DIVIDED

MOBILE: Intermittent and continuously moving.

PLOT SCALE - 1:200
FILE - ...\2 & 4 LANE MOBILE OPS.DGN



KEY	ITEM
4 W	4" White
4 Y	4" Yellow
12 W	12" White
24 W	24" White
24 Y	24" Yellow
	Arrow



DETAIL "A"

GENERAL NOTES:

All pavement marking arrows shall be as depicted in the current edition of the Manual on Uniform Traffic Control Devices, Section 3B.

Stop bar location shall be as shown and dimensioned on this standard plate, or crosswalks will be centered on curb ramps or sidewalks.

Dimension D is variable but shall not exceed 29'.

The crosswalk markings shall be placed to avoid the wheel paths as much as possible and the clear space between the longitudinal crosswalk markings shall be from 2' to 5'.

If more than 2 arrows per storage lane are shown, then the additional arrows shall be placed at approximately equal spaces between the arrow at the beginning of the storage lane and the arrow nearest the stop bar.

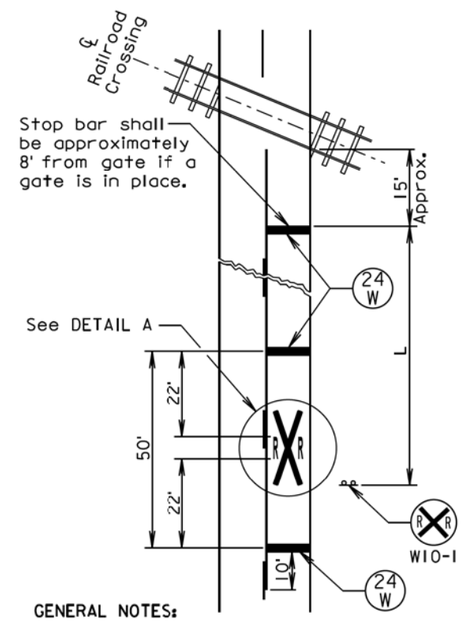
Minimum parking restrictions for signalized intersections.

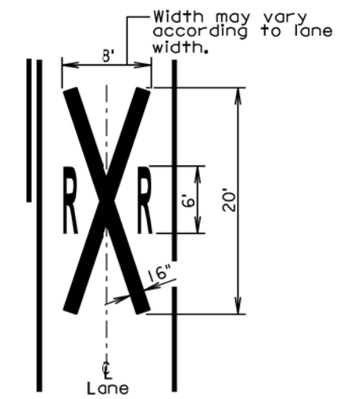
September 14, 2011

Published Date: 1st Qtr. 2016	SDDOT	PAVEMENT MARKINGS FOR ADJACENT INTERSECTIONS AND CENTER TURN LANE	PLATE NUMBER 633.01 Sheet 1 of 1

KEY	ITEM
24 W	24" White
X	White

Posted Speed Limit (M.P.H.)	L (Ft.)
≤ 30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475
70	550





DETAIL A

GENERAL NOTES:

The railroad crossing pavement markings shall be placed symmetrically about the centerline of the railroad crossing.

When pavement markings are used, a portion of the RXR symbol shall be placed directly opposite of the advance warning sign W10-1.

On multi-lane roads the transverse bands shall extend across all approach lanes and individual RXR symbols shall be placed in each approach lane.

The railroad crossing pavement markings shall consist of all the transverse bands, stop bars, and RXR symbols.

When pavement marking paint is used for marking the railroad crossing, all costs for furnishing and painting the markings, materials, labor, and necessary equipment shall be incidental to the contract unit price per gallon for "Pavement Marking Paint, White".

When pavement marking tape is used for marking the railroad crossing, all costs for furnishing and placing the markings, materials, labor, and necessary equipment shall be incidental to the contract unit price per each for "Cold Applied Plastic Pavement Marking, Railroad Crossing".

June 26, 2013

Published Date: 1st Qtr. 2016	SDDOT	PAVEMENT MARKINGS AT RAILROAD CROSSING	PLATE NUMBER 633.10 Sheet 1 of 1

Plot Scale - 1:200
Plotted From - trpr13476
File - ...\Std Plates\s63301_s63310.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 000S(00)009	30	30

Plotting Date: 01/25/2016

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	25
35 - 40	350	25
45 - 50	500	50
55	750	50
60 - 65	1000	50

Flagger

Channelizing Device

For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

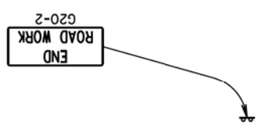
The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) shall be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

The channelizing devices shall be drums or 42" cones.

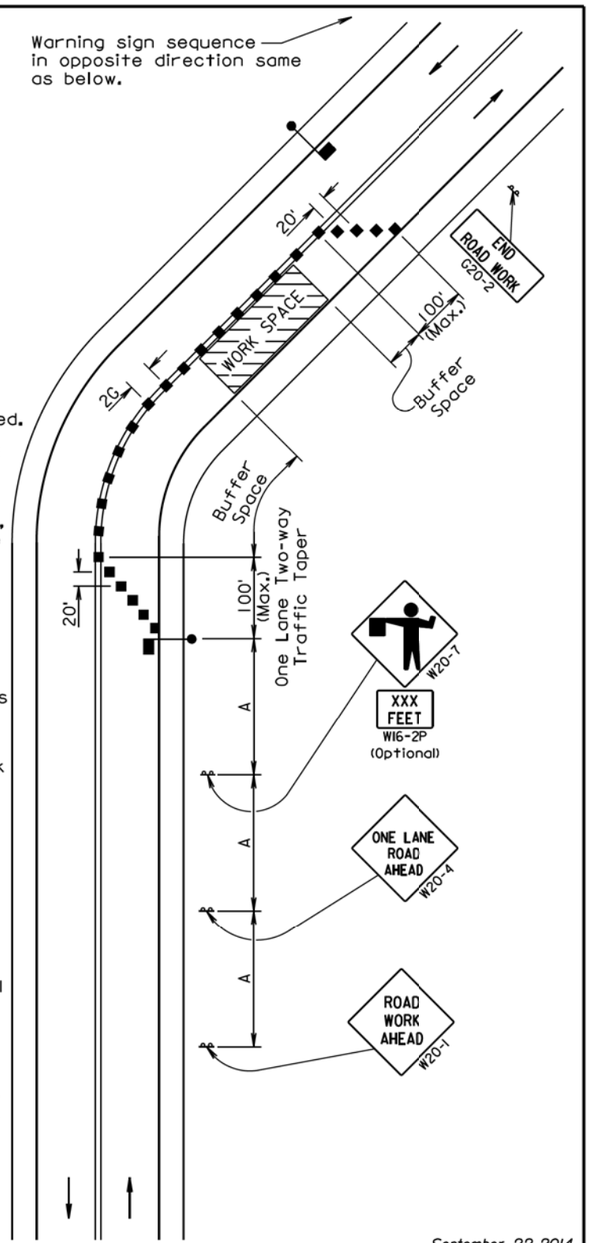
Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.



Channelizing devices and flaggers shall be used at intersecting roads to control intersecting road traffic as required.

The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

The length of A may be adjusted to fit field conditions.



September 22, 2014

Published Date: 1st Qtr. 2016

SDDOT

GUIDES FOR TRAFFIC CONTROL DEVICES
LANE CLOSURE WITH FLAGGER PROVIDED

PLATE NUMBER
634.23

Sheet 1 of 1

Plot Scale - 1:200
Plotted From - trgr13476
File - ...\Std Plates\s634223.dgn