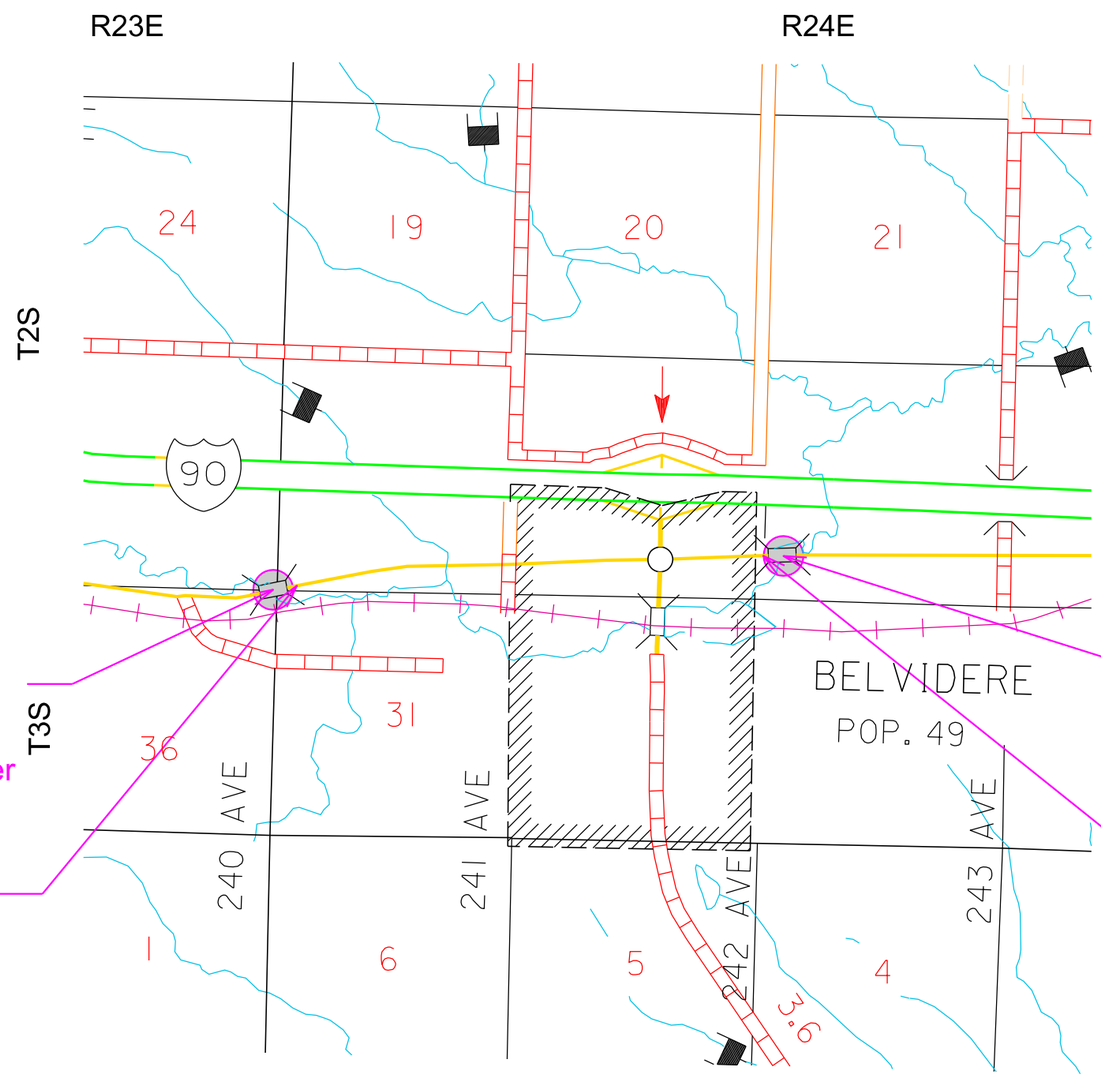
SECTION F: SURFACING PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-B 0248(16)173	F1	F6

Plotting Date: 11/10/2025

INDEX OF SHEETS

F1	General Layout with Index
F2	Estimate with General Notes & Tables
F3 - F4	Typical Surfacing Sections
F5 - F6	Standard Plates



BEGIN PROJECT P-B 0248(16)173
Sta. 20+20.0
Located 113.64 Feet North and
25.11 Feet East of the Southwest Corner
Section 30, Township 2 S , Range 23 E
of the Black Hills Meridian

Begin Exception
Sta. 26+75.00

END PROJECT P-B 0248(16)173
Sta. 139+00.00
Located 1119 Feet North and
438 Feet East of the Southwest Corner
Section 28, Township 2 S , Range 24 E
of the Black Hills Meridian

END EXCEPTION
Sta. 130+00.00

Plot Scale - 1:200
Plotted From - TRPP13462
File - ...\prj\jack06NH\Title F 06NH.dgn

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E6200	Water for Granular Material	65.1	MGal
260E1010	Base Course	3,570.6	Ton
260E1030	Base Course, Salvaged	1,847.0	Ton
320E1200	Asphalt Concrete Composite	1,748.2	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	0.6	Mile

SURFACING THICKNESS DIMENSIONS

At those locations where material must be placed to achieve a required elevation, the depth/quantity may be varied to achieve the required elevation.

SALVAGED MATERIAL

The quantity of salvaged granular base material may vary from the plans. The Contractor will be required to use all of the salvaged material on this project, by decreasing or increasing the quantity of Base Course as necessary, or as directed by the Engineer. Estimated quantity of Base Course, Salvaged equals 1,847.0 tons.

BASE COURSE, SALVAGED

Base Course, Salvaged will be obtained from the stockpile site(s) provided by the Contractor and may be used without further gradation testing.

All other requirements for Base Course, Salvaged will apply.

ASPHALT CONCRETE COMPOSITE

Asphalt Concrete Composite will include MC-70 Asphalt for Prime placed at the rate of 0.30 gallons per square yard. The Asphalt for Prime will be applied to the Base Course, Salvaged or Base Course for the full width of the bottom layer of Asphalt Concrete Composite plus one foot additional on the outside shoulder.

Asphalt for tack SS-1h or CSS-1h will be applied prior to each lift of Asphalt Concrete Composite. Asphalt for tack will be applied at a rate of 0.06 gallons per square yard on primed base course or new asphalt concrete pavement. The Asphalt for tack will be applied for the full width of the bottom layer of Asphalt Concrete Composite plus one-half foot additional on the outside shoulder.

The mainline pavement will be tested for smoothness in accordance with the Standard Specifications.

FLUSH SEAL

Application of flush seal will be completed within 10 working days following completion of the asphalt concrete surfacing.

The flush seal application will be placed only on shoulder rumble strips (1.5’ width per shoulder).

GRIND RUMBLE STRIPS IN ASPHALT CONCRETE

Asphalt concrete rumble strips will be constructed on the shoulders. Rumble strips will be paid for at the contract unit price per mile for Grind 12” Rumble Strip or Stripe in Asphalt Concrete. It is estimated that 0.6 miles of asphalt concrete rumble strips will be required. Location of Rumble Strips will be:

Sta. 20+20 to Sta. 26+75 Lt. & Rt. Shoulders
Sta. 130+00 to Sta. 139+00 Lt. & Rt. Shoulders

Rumble strip installation will be completed prior to application of the flush seal and permanent pavement markings. Flush seal will be applied to the newly installed 12” rumble strips at a width of 18” and a rate of 0.10 Gal./SqYd. All costs associated with placing the flush seal will be incidental to the contract unit price per ton for Asphalt Concrete Composite.

TABLE OF QUANTITIES

LOCATION			WATER FOR GRANULAR MATERIAL	BASE COURSE or BASE COURSE, SALVAGED	ASPHALT CONCRETE COMPOSITE
station	to	station	(MGal)	(Ton)	(Ton / Lift)
MAINLINE					
20+20.0	to	26+75.0	24.4	2,031.9	376.8 / 376.8
130+00.0	to	139+00.0	32.5	2,698.5	497.3 / 497.3
TRAFFIC DIVERSION A					
201+52.5	to	212+43.3	8.2	687.2	
		Total	65.1	5,417.6	1,748.2

IN PLACE TYPICAL SECTIONS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-B 0248(16)173	F3	F6

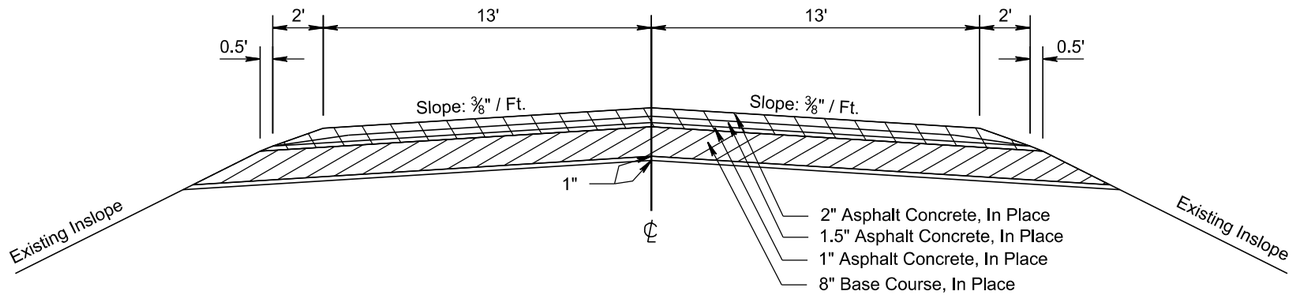
Plotting Date: 11/10/2025

Remove Asphalt Concrete Pavement
(see Section B)

Salvage and Stockpile
Granular Base Material
(see Section B)

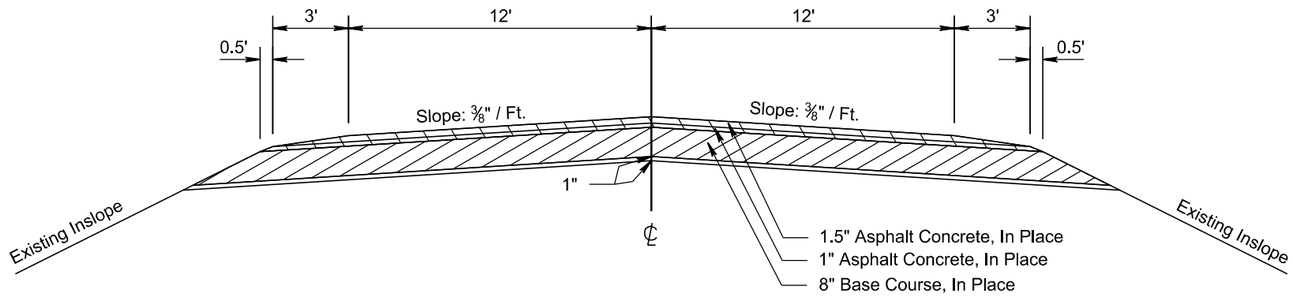
Section 1

Sta. 20+20 to Sta. 22+10.7
Sta. 26+31.7 to Sta. 26+75
Sta. 130+00 to Sta. 131+26.1
Sta. 136+16.5 to Sta. 139+00



Section 2

Sta. 22+10.7 to Sta. 23+85.7
Sta. 24+56.7 to Sta. 26+31.7
Sta. 131+26.1 to Sta. 133+01.1
Sta. 134+41.5 to Sta. 136+16.5



PLOT SCALE - 1:6.00001

PLOTTED FROM - TRPR13462

PLOT NAME - 2

FILE - ...\TYPICAL SECTIONS 06NH.DGN

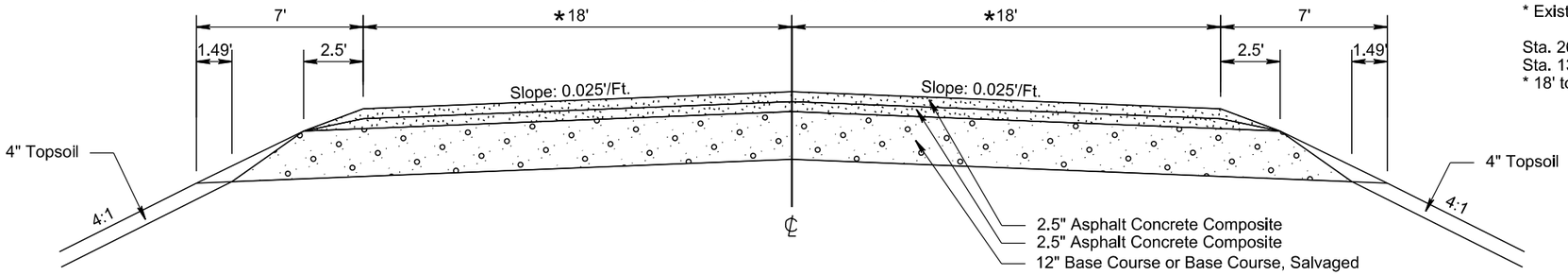
TYPICAL SURFACING SECTIONS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-B 0248(16)173	F4	F6

Plotting Date: 11/10/2025

Section 3

Sta. 20+20 to Sta. 26+75
Sta. 130+00 to Sta. 139+00



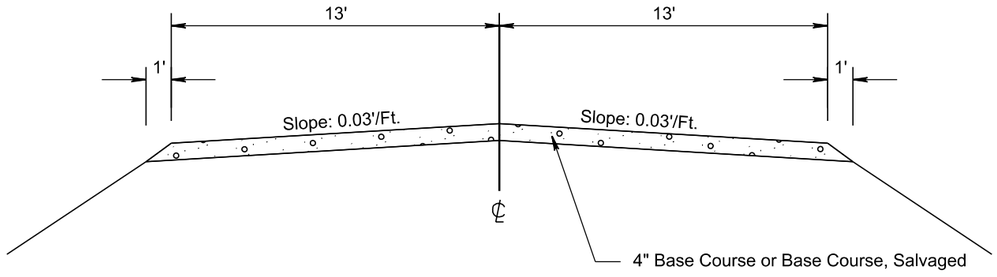
Transitions:

Sta. 20+20 to Sta. 21+00
Sta. 130+00 to Sta. 132+40
* Existing width (approximately 13') to 18'

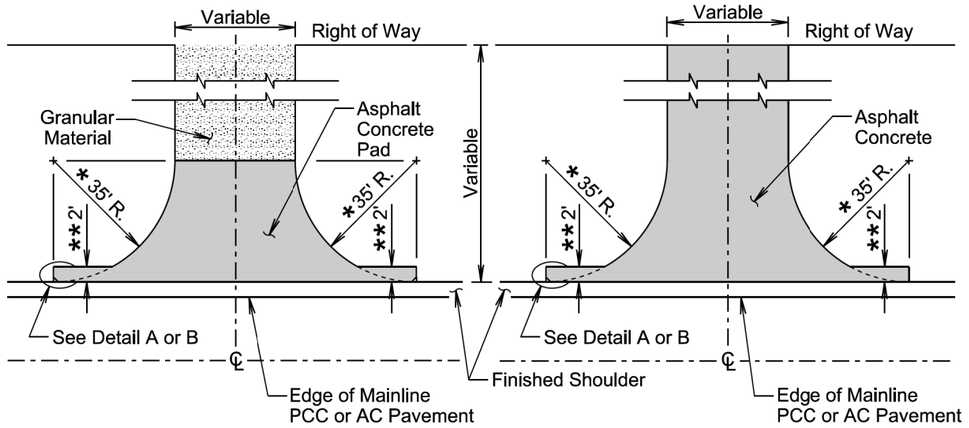
Sta. 26+00 to Sta. 26+75
Sta. 136+60 to Sta. 139+00
* 18' to Existing width (approximately 13')

Section 4
Traffic Diversion

Sta. 201+52.5 to Sta. 212+43.3 Div. A



PLOT SCALE - 1:6.00001
PLOTTED FROM - TRPR13462
PLOT NAME - 3
FILE ...\TYPICAL SECTIONS 06NH.DGN



PLAN VIEW
(Intersecting Road)
(No Asphalt Concrete Surfacing Beyond Right of Way)

PLAN VIEW
(Intersecting Road)
(Asphalt Concrete Surfacing Beyond Right of Way)

GENERAL NOTES:

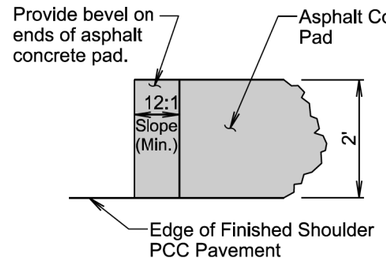
The precise construction limits for situations other than shown above will be determined by the Engineer during construction.

* For new construction, 35' radius typical or as specified in the plans. For resurfacing projects, radius is variable depending on existing conditions.

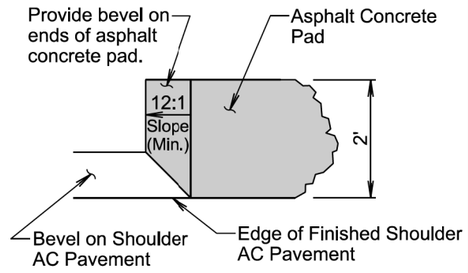
** The Contractor may adjust the screed of the paver during mainline paving operations to provide the 2-foot asphalt concrete pad or the Contractor may provide the 2-foot asphalt concrete pad during paving of the intersecting roads as shown above. The Engineer may eliminate the 2-foot asphalt concrete pads if the Engineer, in the Engineer's sole discretion, determines the pads are infeasible to construct due to site specific reasons including, but not limited to; existing inslope configuration, borrow and material availability, and right-of-way constraints.

August 27, 2020

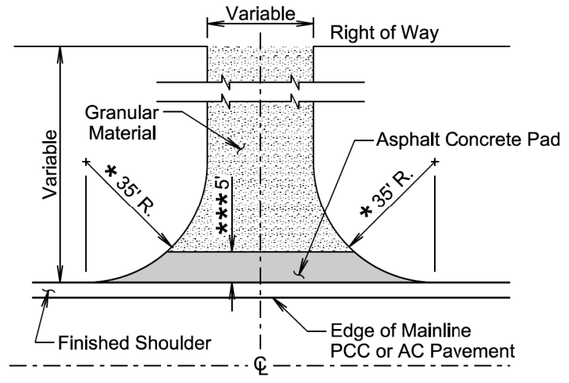
Published Date: 2026	SDDOT	SURFACING OR RESURFACING OF INTERSECTING ROADS AND ENTRANCES (MAINLINE AND SHOULDERS: PCC OR AC PAVEMENT)	PLATE NUMBER 320.04 Sheet 1 of 2



DETAIL A
(Typ. for Projects with PCC Pavement on Shoulder)



DETAIL B
(Typ. for Projects with AC Pavement on Shoulder)



PLAN VIEW
(Entrance)

*** Not required if finished shoulder width is 4' or greater.

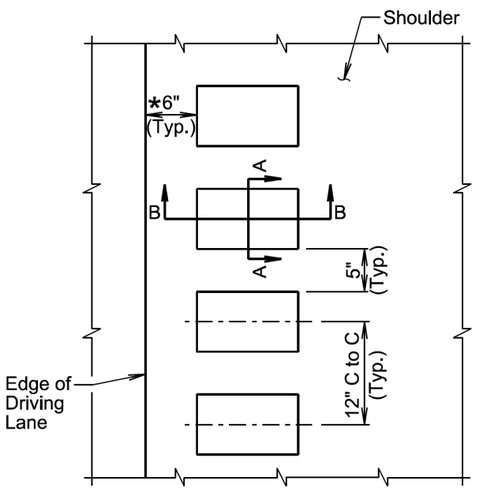
August 27, 2020

Published Date: 2026	SDDOT	SURFACING OR RESURFACING OF INTERSECTING ROADS AND ENTRANCES (MAINLINE AND SHOULDERS: PCC OR AC PAVEMENT)	PLATE NUMBER 320.04 Sheet 2 of 2

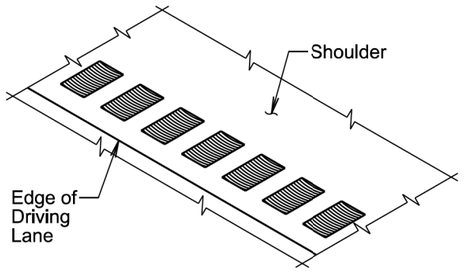
Plot Scale - 1:200
Plotted From - TRPR13462
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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-B 0248(16)173	F6	F6

Plotting Date: 11/10/2025

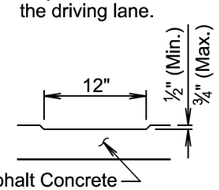


PLAN VIEW
(Typical Rumble Strip in Asphalt Concrete)

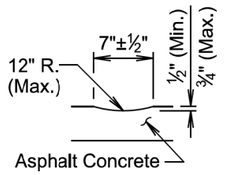


PERSPECTIVE VIEW
(Typical Rumble Strip in Asphalt Concrete)

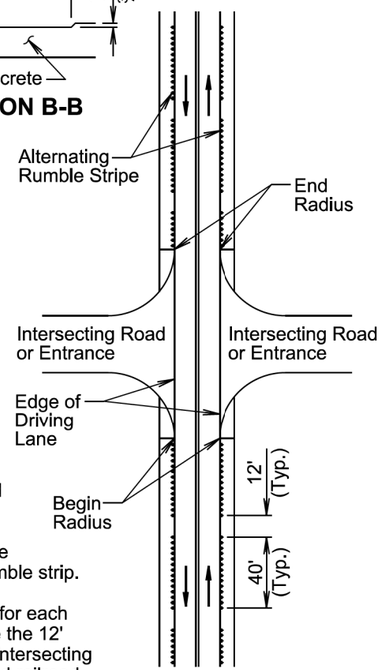
*When PCC pavement width from centerline to edge of pavement is 12', the rumble strip may be placed a maximum of 2' from the edge of the driving lane.



SECTION B-B



SECTION A-A



PLAN VIEW

GENERAL NOTES:

A rumble strip will be constructed on all of the asphalt concrete shoulders by grinding alternating patterns of 40' continuous indentations in the asphalt concrete. The rumble strip will receive a flush seal or asphalt surface treatment as specified in the plans.

A rumble strip will not be constructed through intersecting roads, entrances, turnouts, bridge decks, bridge approach slabs, and railroad crossings. The lengths of the 40' segments with continuous indentations and the 12' segments without a rumble strip adjacent to the intersecting roads, entrances, turnouts, bridge decks, bridge approach slabs, and railroad crossings will be adjusted as approved by the Engineer.

Prior to constructing the rumble strip the Contractor will submit to the Engineer, for approval, the proposed method of constructing the rumble strip.

Measurement of the rumble strip will be to the nearest 0.1 of a mile for each shoulder. Measurement and payment of the rumble strip will include the 12' long segments without rumble strips and the segments adjacent to intersecting roads, entrances, turnouts, bridge decks, bridge approach slabs, and railroad crossings without rumble strips. Payment for constructing the rumble strip will be at the contract unit price per mile for "Grind 12" Rumble Strip or Stripe in Asphalt Concrete".

September 14, 2019

Published Date: 2026	SDDOT	***12" RUMBLE STRIP IN ASPHALT CONCRETE ON NONDIVIDED HIGHWAY SHOULDERS***	*PLATE NUMBER* 320.24
			Sheet 1 of 1

Plot Scale - 1:200

Plotted From - TRPR13462

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