

INDEX OF SHEETS:

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- 2 COMMITMENTS, GENERAL NOTES, AND JOB SPECIFICS
- 3 SUMMARY OF QUANTITIES
- 4 PROPOSED TYPICAL SECTION
- 5 LINE DIAGRAM
- 6 SCHEDULE OF QUANTITIES
- 7-10 DISTRICT STANDARDS

HIGHWAY STANDARDS:

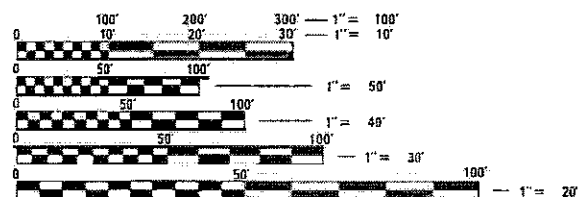
- 701006-05
- 701306-04
- 701901-07

DISTRICT STANDARDS:

- 406101-D4
- 440001-D4

DESIGN DESIGNATION: MINOR ARTERIAL

- ADT: 3,900
- HCV: 1,100 (28.21%)
- SU: 200 (5.13%)
- MU: 900 (23.08%)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

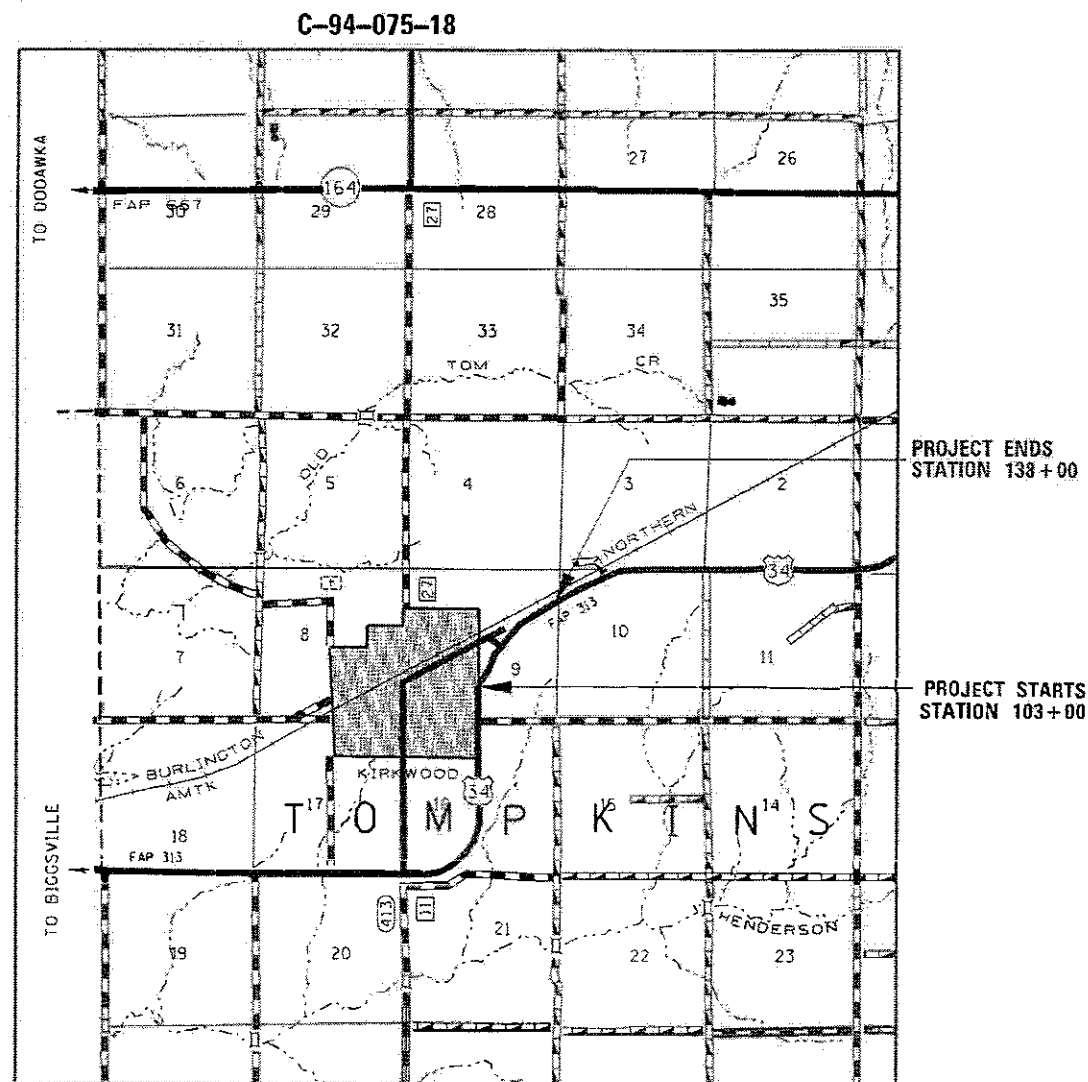
PROJECT ENGINEER: MIKE LEWIS (309) 671-3454
 PROJECT MANAGER: RAYMOND SAMARA (309) 671-3460

CATALOG NO. 035629-00D
 CONTRACT NO. 68E40

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED
 HIGHWAY PLANS

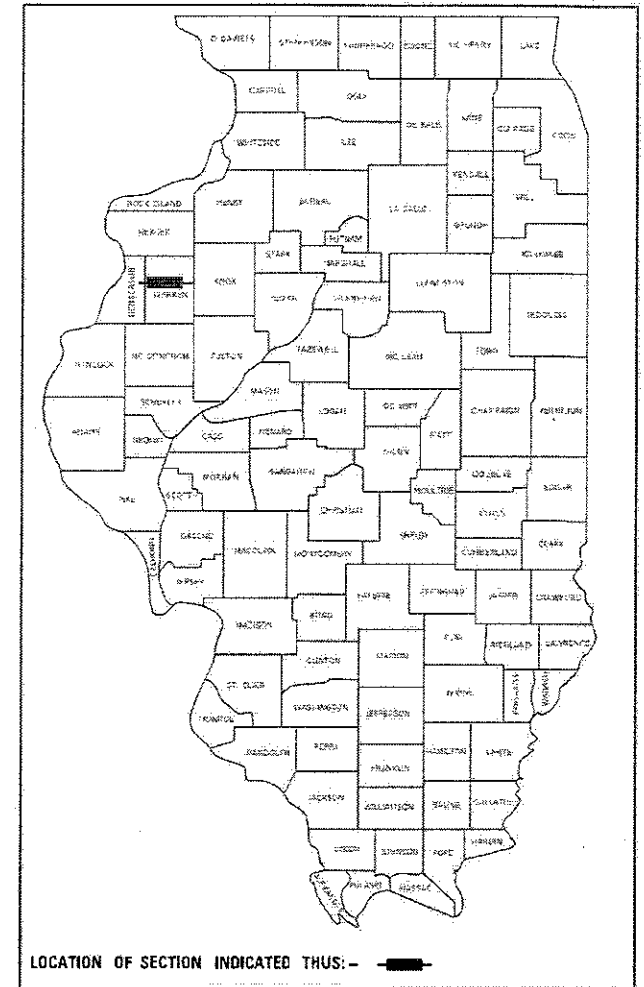
FAP ROUTE 313 (US 34)
 SECTION 4RS-4
 CONTRACT MAINTENANCE
 WARREN COUNTY



GROSS LENGTH = 3,500 FT = 0.663 MILE
 NET LENGTH = 3,500 FT = 0.663 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	4RS-4	WARREN	30	1
CONTRACT NO. 68E40				

D-94-053-18



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Mar 30 20 18
Kensie A. Barnett (KSD)
 REGION THREE ENGINEER

May 11 20 18
Paul P. Chafin
 ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 18
Paul P. Chafin
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

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 OF THE STATE OF ILLINOIS

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

NO COMMITMENT HAVE BEEN MADE FOR THIS PROJECT

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

PAVEMENT STATIONING NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20mm) wide, 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval – 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers – 6 inches (150 mm) from the inside edge of the pavement marking

Location:

- * 2,3, & 5 Lane Pavements – right edge of pavement in direction of increasing stations
- * Multi-Lane Divided Roadways – outside edge of pavement in both directions
- * Ramps – along baseline edge of pavement

Position – stations shall be placed so they can be read from the adjacent shoulder

Format – English (Metric) pavement stations shall use this format "XXX (XX+X00)" where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb/sq ft
Existing Pavement	0.04 lb/sq ft
Fog Coat (Between Lifts)	0.04 lb/sq ft

HOT- MIX ASPHALT MIXTURE REQUIREMENTS

Mixture use(s):	Surface and Centerline Joint Repair	Leveling Binder
AC/PG:	SBS OR SBR 76-28	SBS OR SBR 76-22
Design Air Voids:	4.0% N=70	4.0% N=50
Mixture Composition (Mixture Gradation):	IL 9.5	IL 4.75
Friction Aggregate:	Mix D	N/A
Quality Management Program:	QCQA	QCQA

- Note:
- 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the engineer.
 - 2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/sy/in, unless otherwise noted.
 - 3) Sublot sizes for PFP and QCP mixes will be 1000 tons, unless otherwise agreed to by the engineer and the paving contractor.

JOB SPECIFIC NOTES:

HOT-MIX ASPHALT SURFACE REMOVAL, 2-3/4":

It is the intent to mill the existing HMA to bare concrete and to mill a texture into the surface of the existing concrete to provide a better bond between the proposed leveling binder and the existing concrete pavement.

Due to the drop-off between traveled lanes after the milling operation the contractor shall, as directed by the engineer, place a temporary wedge (minimum 1V:3H slope) or mill a sloped wedge between lanes (minimum 1V:3H slope) before opening lane to traffic. This work shall be included in the cost of "Hot-Mix Asphalt Surface Removal, 2-3/4".

The resident engineer shall notify D.J. Homes at (309) 370-7514 seven days prior to the completion of the project for pavement marking placement.

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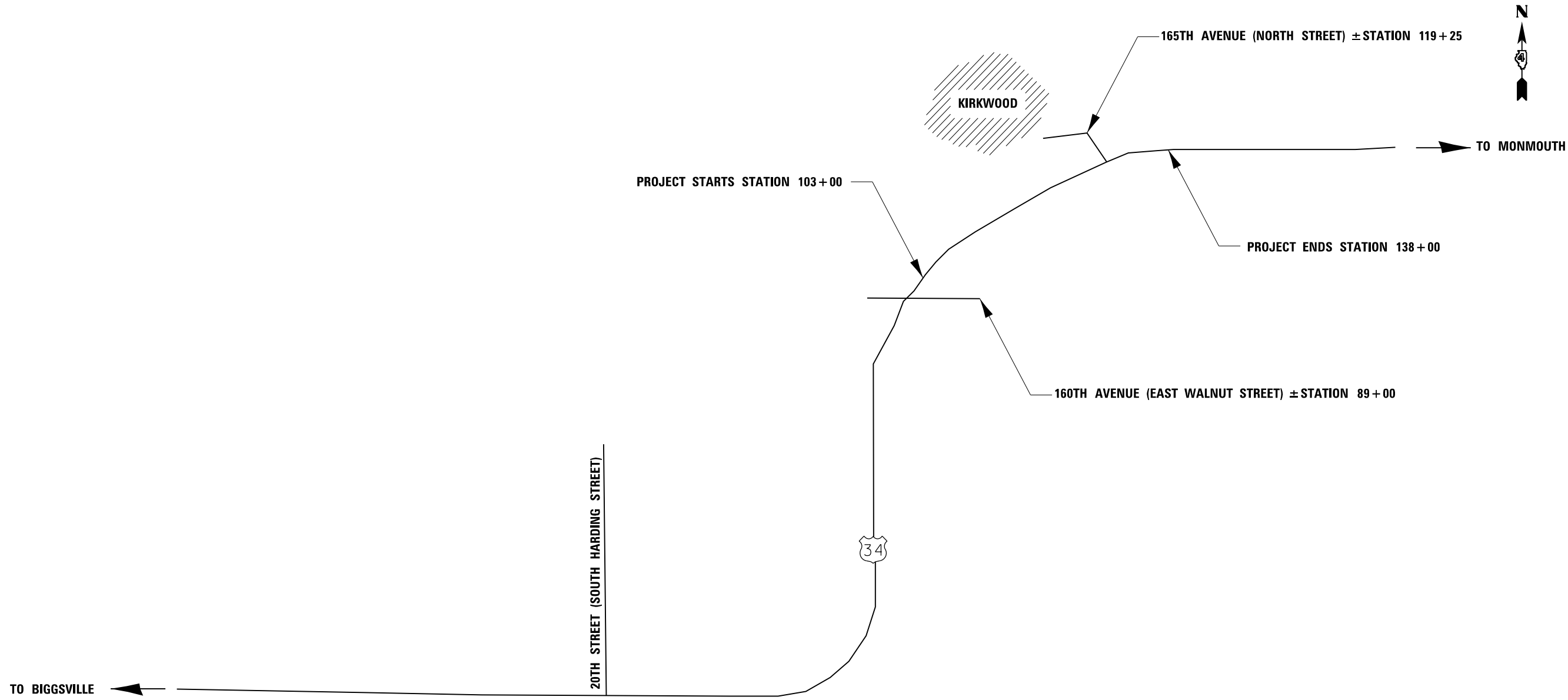
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PLOT DATE = 3/29/2018	DATE -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMITMENTS, GENERAL NOTES, AND JOB SPECIFICS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 313	SECTION 4RS-4	COUNTY WARREN	TOTAL SHEETS 10	SHEET NO. 2
CONTRACT NO. 68E40				ILLINOIS FED. AID PROJECT



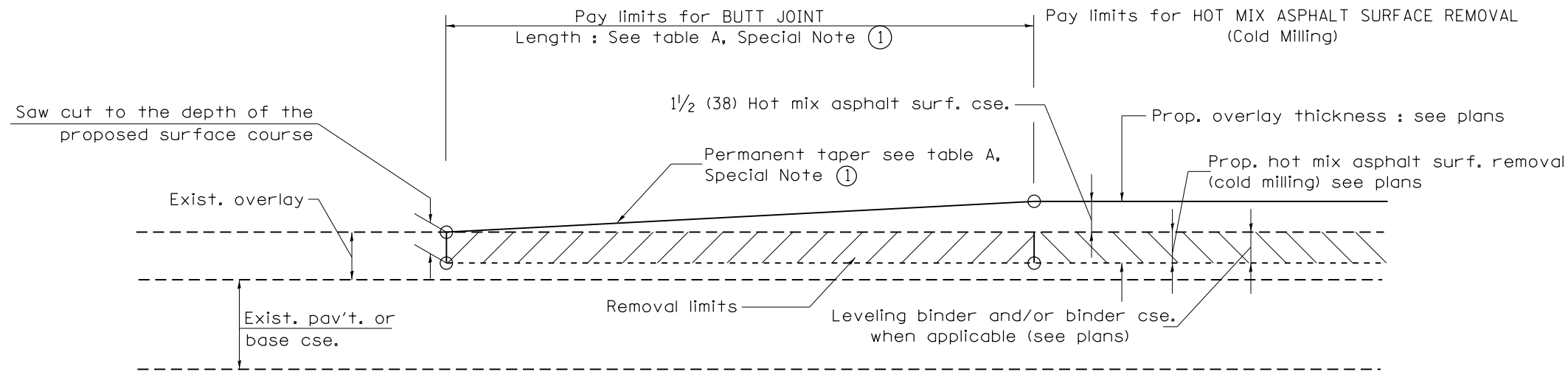
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 RESOURCES: jwirth, gbealo, rbrascign

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	DRAWN -	REVISED -
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PLOT DATE = 3/29/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LINE DIAGRAM			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	4RS-4	WARREN	10	5
CONTRACT NO. 68E40				
		ILLINOIS	FED. AID PROJECT	



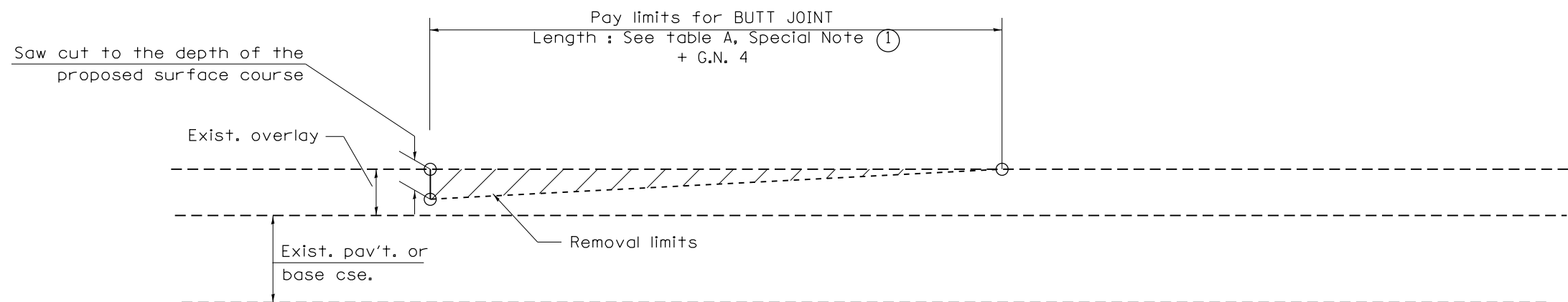
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

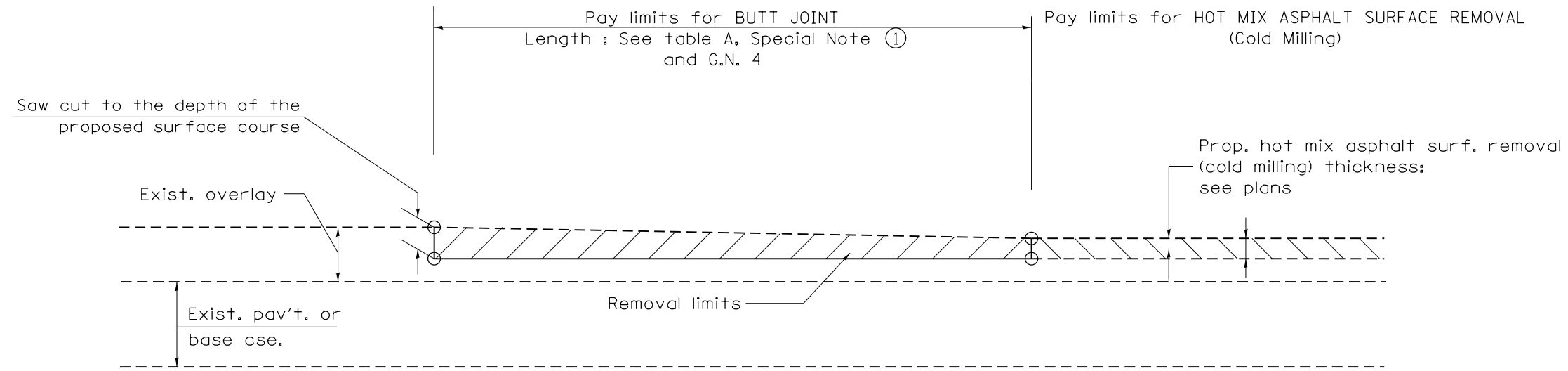
1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



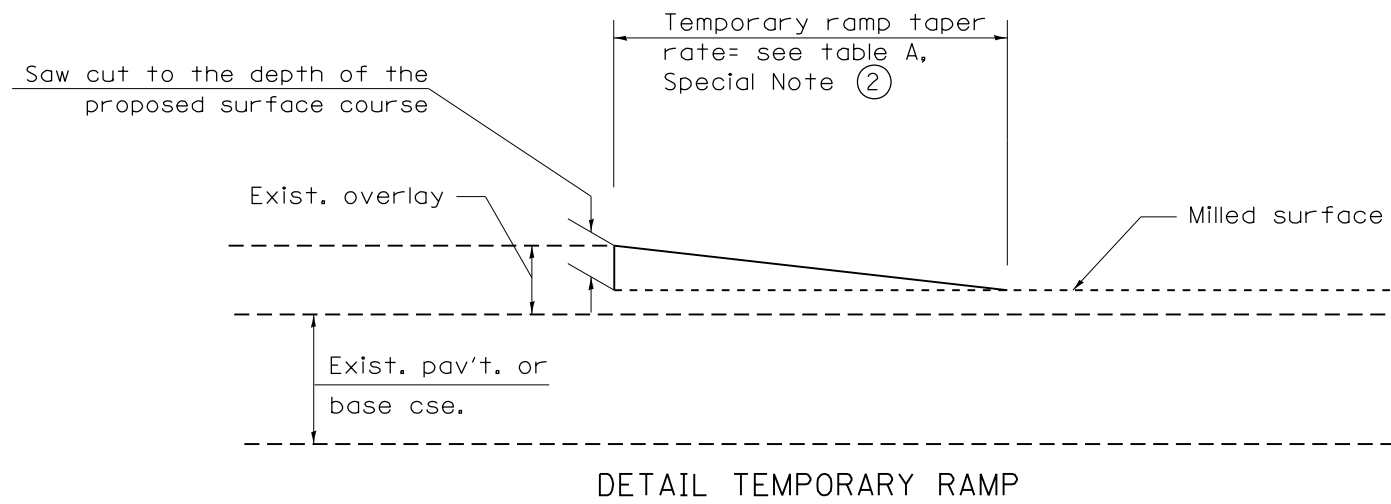
CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-01-97	CORRECTION TO DEPTH	J.A.	02-29-16	MINOR CORRECTIONS	R.D.			313	4RS-4	WARREN	10	7
09-15-05	REVISED DESIGNER NOTE	M.M.A.	04-12-16	MINOR CORRECTIONS	R.D.			CONTRACT NO. 68E40				
10-16-06	REVISED TO 2007 SPEC.	M.A.	02-14-17	ADDED NOTE 5	R.D.			ILLINOIS FED. AID PROJECT				



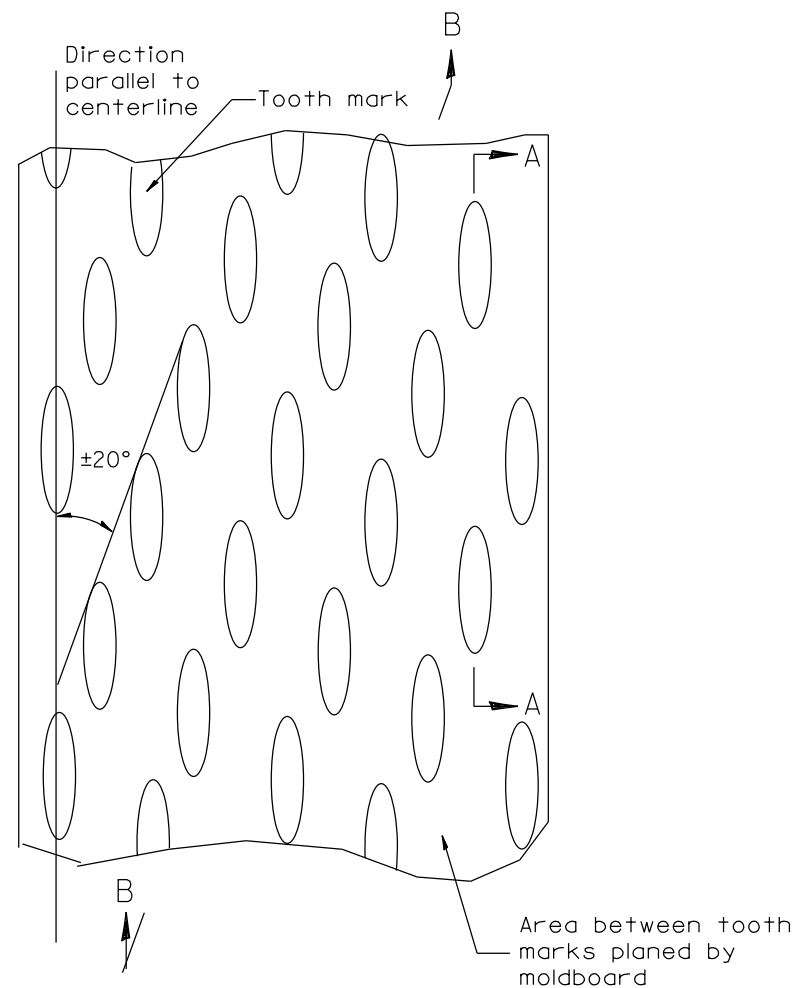
CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



All dimensions are in inches (millimeters) unless otherwise noted.

				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINTS		SHT. 2 OF 3 CADD STD. 406101-D4	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
313	4RS-4	WARREN	10	8	CONTRACT NO. 68E40				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							

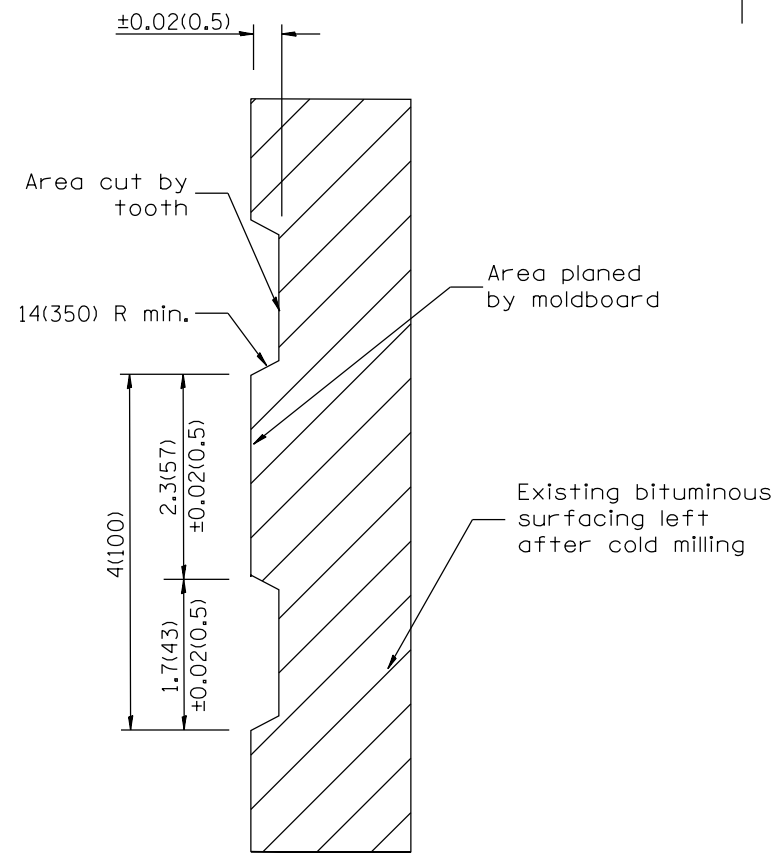
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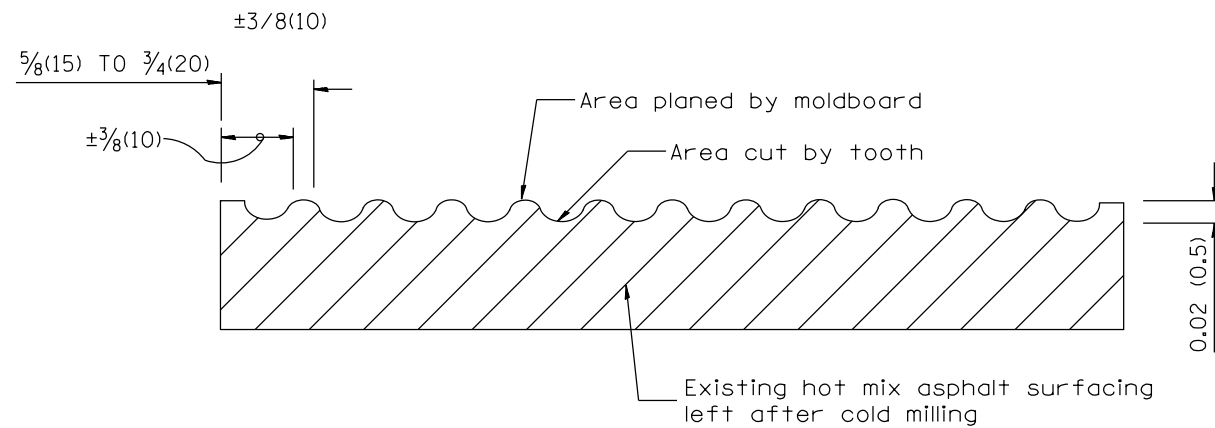
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

CADD STD. 440001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	4RS-4	WARREN	10	10
CONTRACT NO. 68E40				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				