

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	D2 RS 2020-2	WINNEBAGO	12	1
FED. ROAD DIST. NO. _		ILLINOIS	CONTRACT NO. 64N89	

PROJECT ENGINEER: SCOTT KULLERSTRAND

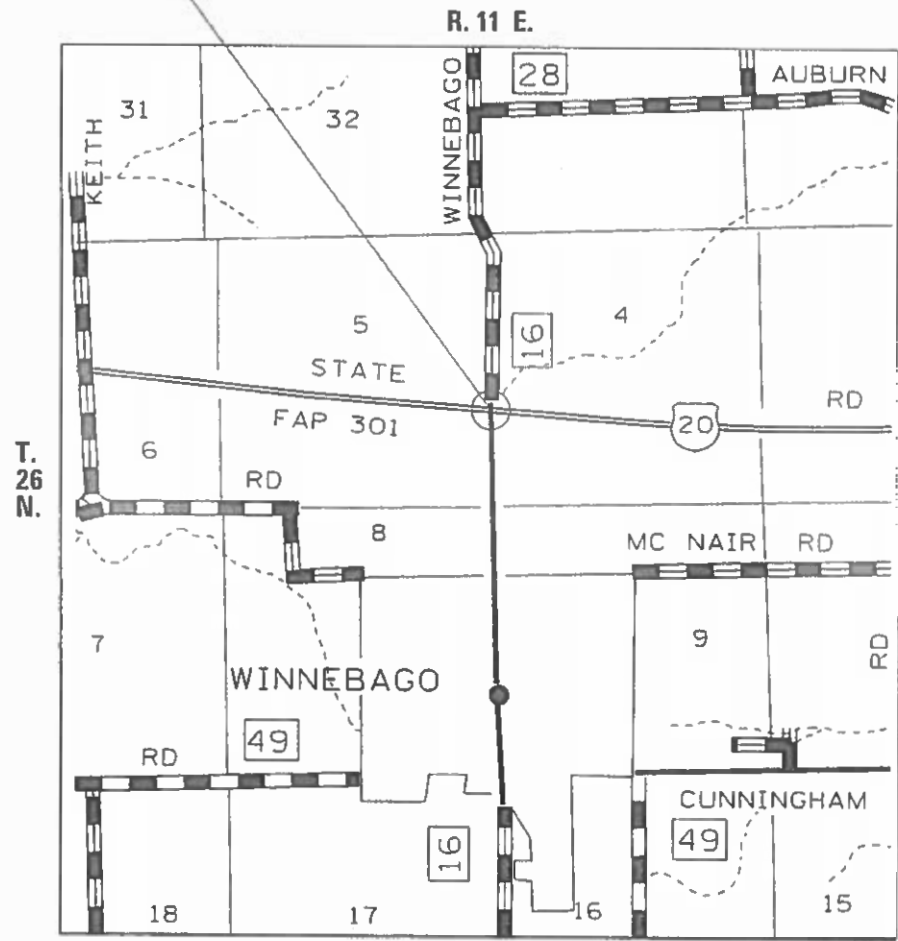
SQUAD LEADER: LANCE NICKLAUS 815-284-5407

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR STATE STANDARDS, SEE SHEET NO. 2

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 301 (US 20)
SECTION D2 RS 2020-2
WINNEBAGO COUNTY
C-92-083-19

PROJECT LOCATION
US 20 & WINNEBAGO ROAD



WINNEBAGO TOWNSHIP SECTIONS (4 & 5)

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

GROSS LENGTH = 1,556 FT. = 0.30 MILE
NET LENGTH = 1,556 FT. = 0.30 MILE

CONTRACT NO. 64N89

FAP ROUTE 301 (US 20) SECTION D2 RS 2020-2 WINNEBAGO COUNTY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED May 13th 20 19
Kevin Marchek
 REGION ENGINEER

June 20 20 19
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

June 20 20 19
[Signature]
 DIRECTOR OF HIGHWAYS, PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

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9	Typicals
10-12	Plan Sheets

STATE STANDARDS

642001-02	SHOULDER RUMBLE STRIPS, 16 INCH
701101-05	OFF-ROAD OPERATIONS, 15'(4.5M) TO 24"(600mm) FROM PAVEMENT EDGE
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEED \geq 45MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POST FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POST (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKER

DISTRICT STANDARDS

94.2	Traffic Control & Protection at Turn Bays (To Remain Open To Traffic)
34.1	Work Zone Sign Details
41.1	Typical Pavement Markings

SUMMARY OF QUANTITIES

FAP 301 (US 20)
SECTION D2 RS 2020-2
WINNEBAGO COUNTY
CONTRACT # 64N89
SHEET 3 OF 12

100% State
0005

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	1916
44000157	HOT-MIX ASPHALT SURFACE REMOVAL 2"	SQ YD	16104
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	240
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	4515
67100100	MOBILIZATION	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1844
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	510

* Specialty Items

SUMMARY OF QUANTITIES

FAP 301 (US 20)
SECTION D2 RS 2020-2
WINNEBAGO COUNTY
CONTRACT # 64N89
SHEET 4 OF 12

100% State
0005

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	325.4
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7874
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1277
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	602
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	76
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	126
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	126
* 89502210	MODIFY EXISTING CONTROLER CABINET	EACH	1
X0300004	BITUMINOUS MATERIALS (TACK COAT), SPECIAL	POUND	11595
* Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1

Specialty Items

REV. 6/6/19

GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

Milling machines on this project shall be capable of removing a layer of bituminous a minimum 6' wide and 1½ inches in depth in a single pass.

The following Mixture Requirements are applicable for this project:

Location(s):	RESURFACING
Mixture Use(s):	SURFACE
PG:	SBS PG 70-28
Design Air Voids:	4.0 @ N90
Mixture Composition (Mixture Gradation):	IL 9.5
Friction Aggregate:	E
Mixture Weight:	119/LB/SY/IN
Quality Management Program:	QC/QA
Sublot Size:	
Number of Roller Passes ¹⁾ :	

1) When a number of roller passes is specified, the Contractor may opt to use intelligent compaction in lieu of density testing under the Quality Control for Performance (QCP) program.

The Contractor will be required to furnish 5 1/2" high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 6" inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

Install rumble strips in all shoulders in accordance with State Standard 642001. Rumble Strips shall be placed on shoulders on both sides of the pavement.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Any District Standards listed on the Index of Sheets for this contract shall be retrieved from the IDOT webpage (<http://apps.dot.illinois.gov/eplan/desenv/standards/District%202/D2DistrictStandards/>). It shall be the responsibility of both the Contractor and the RE to print any standards needed. The suffix ".1" indicates a full size standard, ".2" indicates a half size standard, and ".4" indicates a quarter size standard. Contact the District's Project Engineer for any questions.

FILE NAME = 64N89GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -			FAP 301	D2 RS 2020-2	Winnebago	12	5
	PLOT DATE = 5/9/2019 10:35 AM	DATE = 5/6/2019 11:38 AM	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS		CONTRACT NO. 64N89 FED. AID PROJECT

SCHEDULE OF QUANTITIES

FAP 301 (US 20)
SECTION D2 RS 2020-2
WINNEBAGO COUNTY
CONTRACT #64N89
SHEET 6 of 12

40603570 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 416+69 - 432+25	<u>1916</u>	Includes Shoulders and Turn Lanes
	1916	

44000157 HOT-MIX ASPHALT SURFACE REMOVAL 2"

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 416+69 - 432+25	<u>16104</u>	Includes Shoulders and Turn Lanes
	16104	

48102100 AGGREGATE WEDGE SHOULDER, TYPE B

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 416+69 - 432+25	<u>240</u>	
	240	

64200116 SHOULDER RUMBLE STRIPS, 16 INCH

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 416+69 - 432+25	<u>4515</u>	Inside and Outside Shoulders
	4515	

70300100 SHORT TERM PAVEMENT MARKING

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 420+15 - 423+85	370	Turn Lane (1 Application)
STA. 425+12 - 428+82	370	Turn Lane (1 Application)
STA. 423+72	28	Stop Bar (8" wide) 1 Application
STA. 424+03	56	Stop Bar (8" wide) 1 Application
STA. 424+92	56	Stop Bar (8" wide) 1 Application
STA. 425+23	28	Stop Bar (8" wide) 1 Application
STA. 416+69 - 432+25	624	Center Line (2 Applications)
STA. 416+69 - 432+25	132	Shoulder (1 Application)
STA. 416+69 - 432+25	<u>180</u>	Turn Arrows (1 Application)
	1844	

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

<u>LOCATION</u>	<u>SQ FT</u>	<u>REMARKS</u>
STA. 420+15 - 423+85	123	Turn Lane
STA. 425+12 - 428+82	123	Turn Lane
STA. 423+72	9	Stop Bar (8" wide)
STA. 424+03	19	Stop Bar (8" wide)
STA. 424+92	19	Stop Bar (8" wide)
STA. 425+23	9	Stop Bar (8" wide)
STA. 416+69 - 432+25	104	Center Line
STA. 416+69 - 432+25	44	Shoulder
STA. 416+69 - 432+25	<u>60</u>	Turn Arrows
	510	

78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

<u>LOCATION</u>	<u>SQ FT</u>	<u>REMARKS</u>
<u>US 20 EASTBOUND</u>		
STA. 419+66	15.6	Left Turn Arrow
STA. 420+29	69.1	"ONLY"
STA. 420+29	15.6	Right Turn Arrow
STA. 420+93	15.6	Left Turn Arrow
STA. 421+32	15.6	Right Turn Arrow
STA. 422+42	15.6	Right Turn Arrow
STA. 423+60	15.6	Right Turn Arrow
<u>US 20 WESTBOUND</u>		
STA. 425+32	15.6	Right Turn Arrow
STA. 426+30	15.6	Right Turn Arrow
STA. 427+39	15.6	Right Turn Arrow
STA. 428+08	15.6	Left Turn Arrow
STA. 428+67	69.1	"ONLY"
STA. 428+66	15.6	Right Turn Arrow
STA. 429+31	15.6	Left Turn Arrow
	<u>325.4</u>	

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
<u>US 20 EASTBOUND</u>		
STA. 416+69 - 432+25	370	White Center Line
STA. 416+69 - 423+78	710	White Edge Line
STA. 425+31 - 432+25	699	White Edge Line
STA. 416+69 - 423+72	704	Yellow Edge Line
STA. 425+45 - 432+25	679	Yellow Edge Line
STA. 419+78 - 421+91	428	White Median
STA. 421+91 - 424+05	220	Yellow Median
STA. 421+91 - 423+72	185	White Edge Line Left Turn
	<u>3995</u>	SUB TOTAL

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (CONT)

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
<u>US 20 WESTBOUND</u>		
STA. 416+69 - 432+25	370	White Center Line
STA. 416+69 - 423+02	633	White Edge Line
STA. 416+69 - 423+49	680	Yellow Edge Line
STA. 424+90 - 427+03	219	Yellow Median
STA. 425+22 - 427+03	185	White Edge Line Left Turn
STA. 427+03 - 429+15	428	White Median
STA. 425+22 - 432+25	704	Yellow Edge Line
STA. 425+65 - 432+25	660	White Edge Line
	<u>3879</u>	SUB TOTAL
	7874	TOTAL

78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
<u>US 20 EASTBOUND</u>		
STA. 417+19 - 420+15	49	White Skip Dash
STA. 417+83 - 419+79	33	White Skip Dash
STA. 420+15 - 424+19	404	White Turn Lane
<u>US 20 WESTBOUND</u>		
STA. 424+75 - 428+81	406	White Turn Lane
STA. 428+81 - 431+75	49	White Skip Dash
STA. 429+16 - 431+15	33	White Skip Dash
INTERSECTION	303	Island Edge Lines
	<u>1277</u>	

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
<u>US 20 EASTBOUND</u>		
STA. 419+79 - 421+91	91	White Diagonals
STA. 421+91 - 424+05	88	Yellow Diagonals
<u>US 20 WESTBOUND</u>		
STA. 424+93 - 427+03	88	Yellow Diagonals
STA. 427+03 - 429+15	76	White Diagonals
INTERSECTION	259	Island Diagonals
	<u>602</u>	

78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
<u>US 20 EASTBOUND</u>		
STA. 424+05	24	White Stop Bar
STA. 423+71	14	White Stop Bar
<u>US 20 WESTBOUND</u>		
STA. 425+24	14	White Stop Bar
STA. 424+98	24	White Stop Bar
	<u>76</u>	

78100100 RAISED REFLECTIVE PAVEMENT MARKER

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
<u>US 20 EASTBOUND</u>		
STA. 416+69 - 432+25	18	Crystal - Center Line
STA. 417+83 - 423+72	15	Amber - Left Turn Lane
STA. 419+78 - 421+91	10	Crystal - Median
STA. 421+91 - 423+72	5	Crysatl - Left Turn Lane
STA. 421+91 - 424+05	5	Amber - Median
STA. 420+15 - 429+19	10	Crystal - Right Turn Lane
<u>US 20 WESTBOUND</u>		
STA. 416+69 - 432+25	18	Crystal - Center Line
STA. 424+75 - 428+81	10	Crystal - Right Turn Lane
STA. 424+90 - 427+03	5	Amber - Median
STA. 425+22 - 427+03	5	Crysatl - Left Turn Lane
STA. 427+03 - 429+15	10	Crystal - Median
STA. 425+22 - 431+13	15	Amber - Left Turn Lane
	<u>126</u>	

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 416+69 - 432+25	<u>126</u>	
	126	

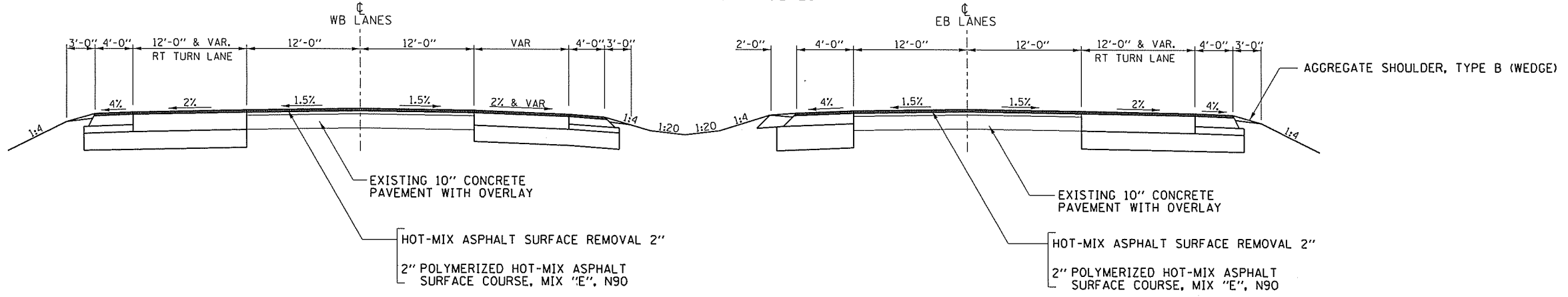
X0300004 BITUMINOUS MATERIALS (TACK COAT), SPECIAL

<u>LOCATION</u>	<u>POUND</u>	<u>REMARKS</u>
STA. 416+69 - 432+25	<u>11595</u>	Includes Shoulders and Turn Lanes
	11595	

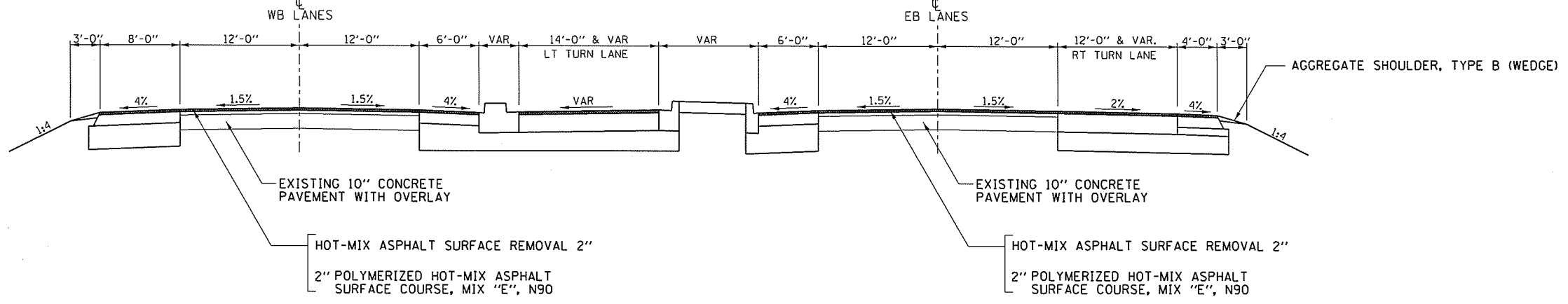
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301	D2 RS 2020-2	WINNEBAGO	12	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

US ROUTE 20
STA 416+69 - STA 432+25



US ROUTE 20
WITH BURIED LT TURN LANE



NOTE:
SURFACE COURSE
(119 LB/SY/IN)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

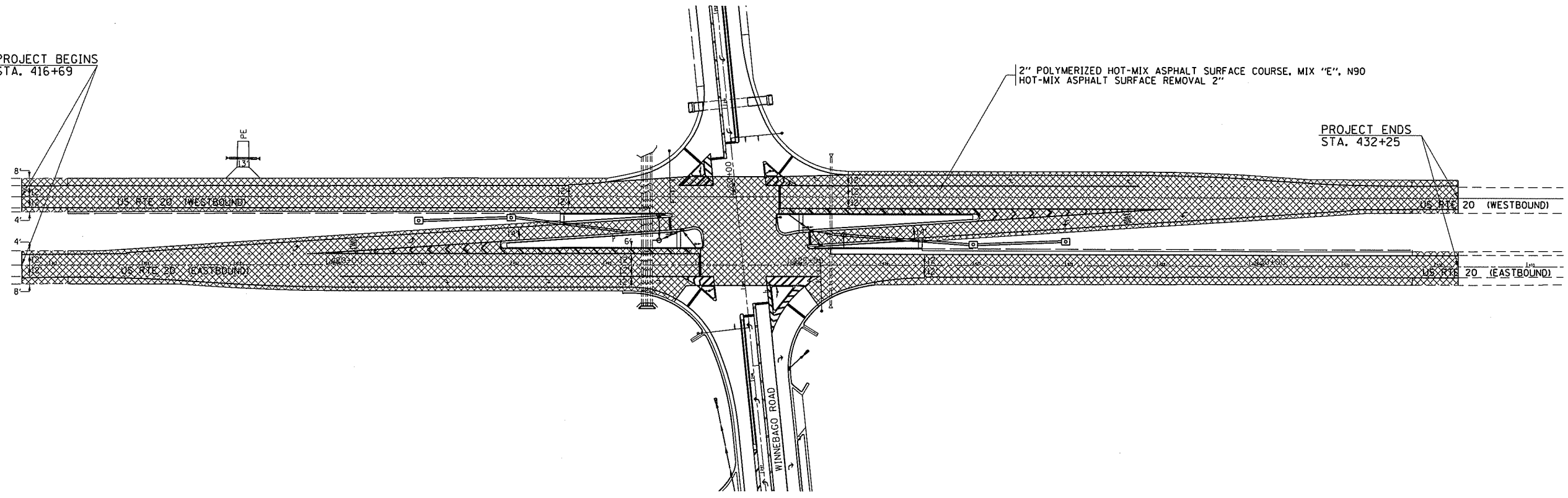
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DATE

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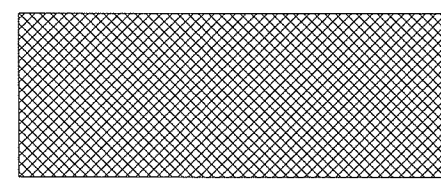
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PROJECT BEGINS
STA. 416+69



PROJECT ENDS
STA. 432+25



AREA TO BE MILLED AND RESURFACED

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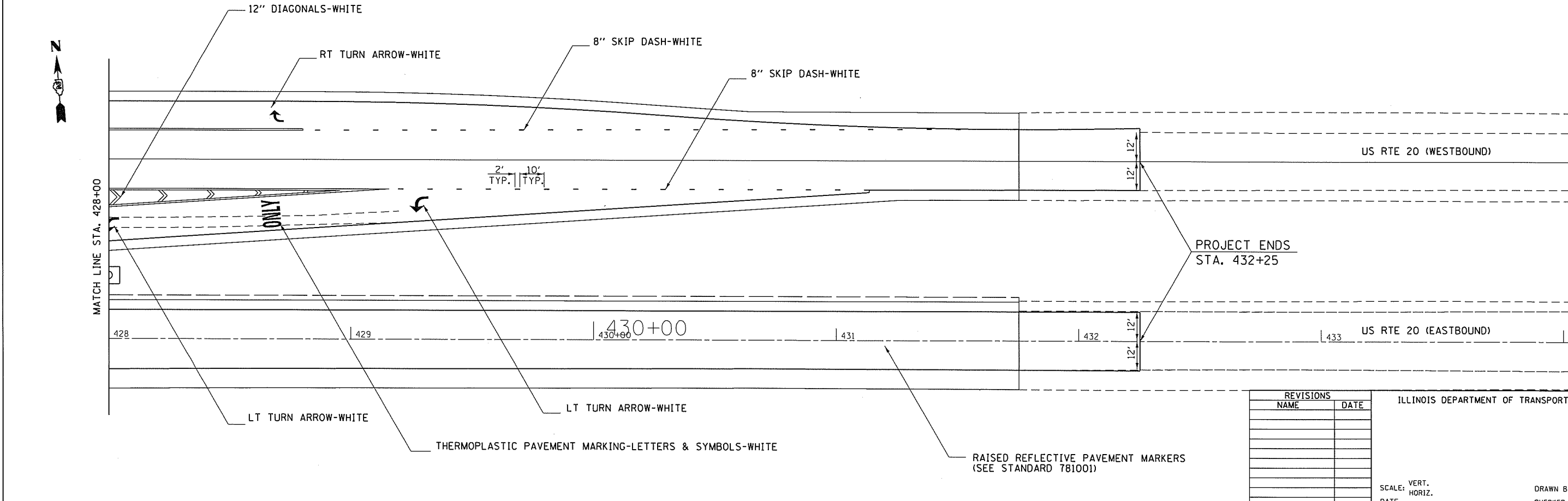
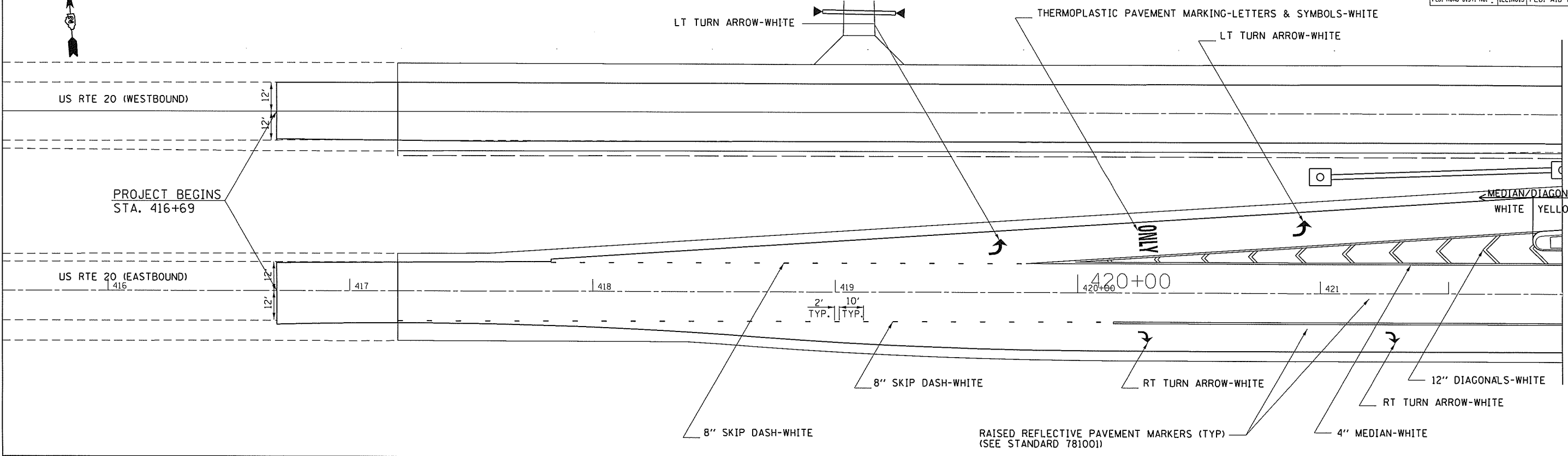
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	D2 RS 2020-2	WINNEBAGO	12	10
CONTRACT NO. 64N89				
ILLINOIS FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	D2 RS 2020-2	WINNEBAGO	12	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

THERMOPLASTIC PAVEMENT MARKING DETAILS



REVISIONS	
NAME	DATE

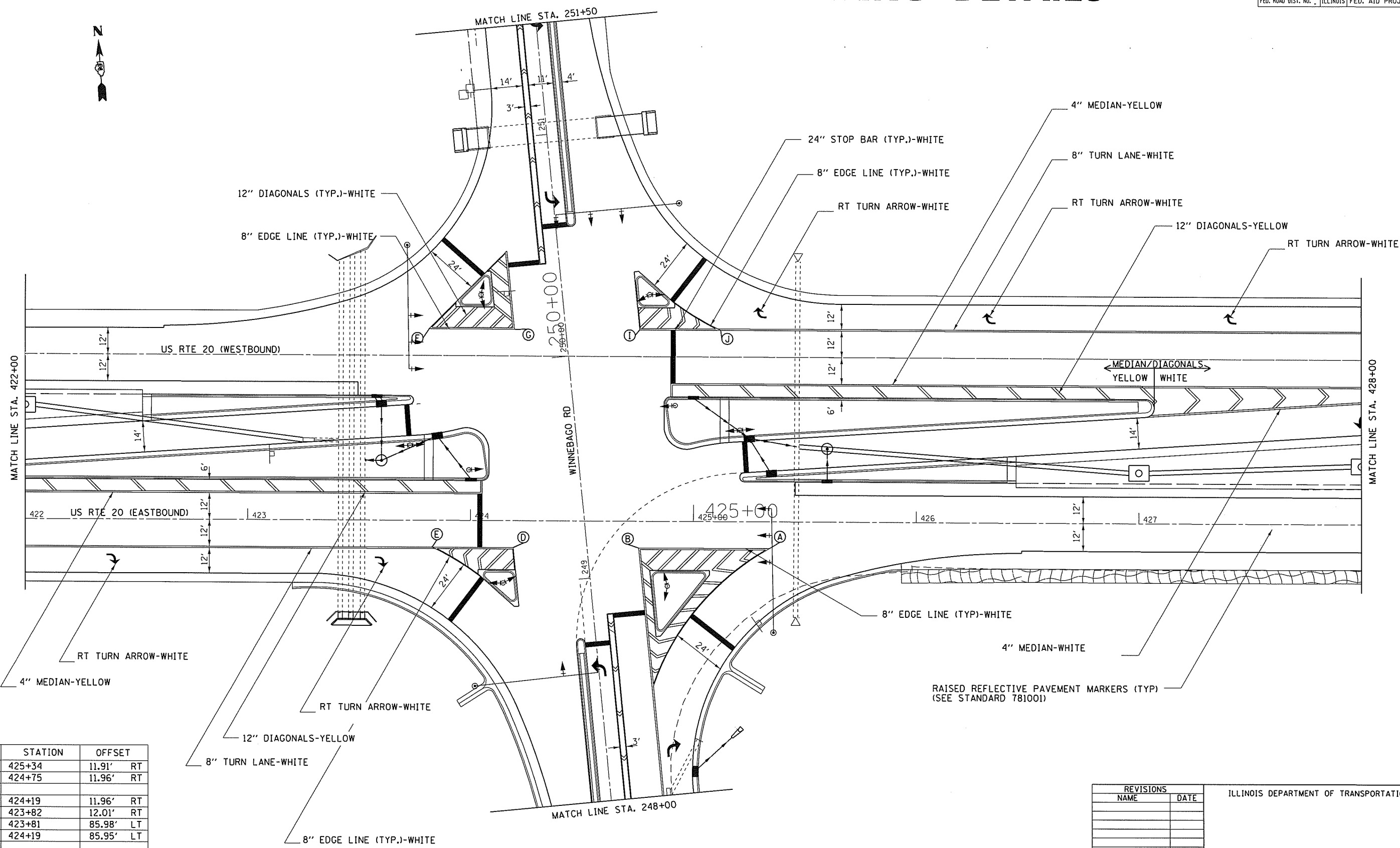
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THERMOPLASTIC PAVEMENT MARKING DETAILS

CONTRACT NO. 64N89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	D2 RS 2020-2	WINNEBAGO	12	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



	STATION	OFFSET
A	425+34	11.91' RT
B	424+75	11.96' RT
D	424+19	11.96' RT
E	423+82	12.01' RT
F	423+81	85.98' LT
G	424+19	85.95' LT
I	424+75	85.91' LT
J	425+12	85.89' LT

RAISED REFLECTIVE PAVEMENT MARKERS (TYP)
(SEE STANDARD 781001)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

THERMOPLASTIC PAVEMENT MARKING DETAILS US RTE 20

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