

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-9RS	MADISON	13	1
		ILLINOIS	CONTRACT NO. 76E00	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

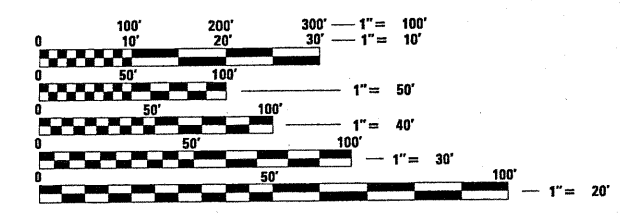
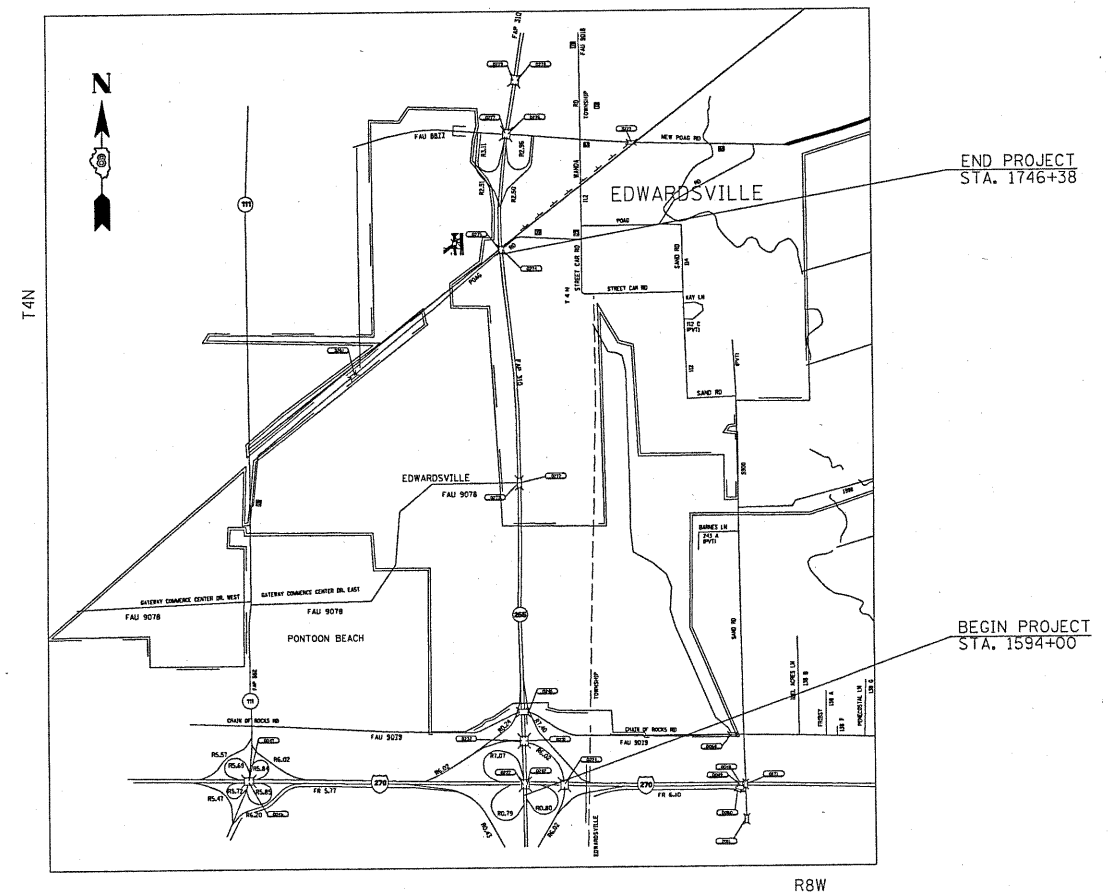
FAP ROUTE 310 (IL 255)  
SECTION 60-9RS

MICRO - SURFACING  
MADISON COUNTY

C-98-083-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-98-064-10



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: TIM PADGETT (618)346-3325  
PROJECT MANAGER: LIZ BURNSIDE (618)346-3196

CONTRACT NO. 76E00

GROSS LENGTH = 15238 FT. = 2.89 MILE  
NET LENGTH = 14915 FT. = 2.82 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED August 17, 2010  
Alan C. James  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 1, 2010  
Scott E. Stitt, P.E.  
acting ENGINEER OF DESIGN AND ENVIRONMENT

October 1, 2010  
Christine M. Reedler  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-05	701401-05
001006	701406-05
442001-04	701411-06
701101-02	701446-01
701106-02	701451-01
701301-03	701456
<del>701300-03</del>	701901-01
701400-04	

COMMITMENTS

NONE

GENERAL NOTES

- ① THE APPLICATION RATE FOR MICRO-SURFACING, TYPE II AND MICRO-SURFACING RUT FILLING, TYPE III SHALL BE 20 LS/SQ YD PER PASS.
- ② ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
• AMERENIP GAS AND ELECTRIC	X	X
• AT&T ILLINOIS		X
• CHARTER COMMUNICATIONS, INC. - CABLE	X	X
• CITY OF EDWARDSVILLE PUBLIC WORKS		X
• VILLAGE OF GLEN CARBON		X
• ILLINOIS AMERICAN WATER COMPANY		X
• MADISON COUNTY SPECIAL SERVICE AREA #1		X
• MITCHELL PUBLIC WATER DISTRICT		X
• NORTHEAST CENTRAL PUBLIC WATER DISTRICT		X

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY (\*). NON - J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- ③ "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND REQUIRED RAMPS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE. (48"x48")
- ④ FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ⑤ THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ⑥ THE REFLECTIVE PAVEMENT MARKERS SHALL NOT BE PLACED IN THE SAME LOCATION AS THEY WERE PREVIOUS.
- ⑦ THE CONTRACTOR SHALL BE AWARE THAT IT MAY BE NECESSARY TO DO SOME CRACK/JOINT SEALING AND BUMP GRINDING ACCORDING TO THE PREVENTATIVE MAINTENANCE MICRO-SURFACING SPECIAL PROVISION OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE CONTRACTOR SHALL DEVISE AND SUBMIT A JOINT PLAN THAT MEETS THE APPROVAL OF THE RESIDENT ENGINEER AS REQUIRED BY THE SPECIAL PROVISION "MICRO-SURFACING".
- ⑨ SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO EACH PASS. ONLY THE REMOVAL OF THE FINAL SURFACE APPLICATION WILL BE PAID FOR (WORK ZONE PAVEMENT MARKING REMOVAL - SQ FT). A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKINGS HAS BEEN ADDED TO THE PLANS.
- ⑩ NO OVERNIGHT LANE CLOSURES ON MAINLINE IL 255 OR FAI 255 UNLESS THE CONTRACTOR PLANS TO WORK AT NIGHT. IN THAT CASE, ONLY THE LANE IN WHICH THE CONTRACTOR IS WORKING CAN BE CLOSED OVERNIGHT.
- ⑪ THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATION AS EXISTING OR AS DIRECTED BY THE RESIDENT ENGINEER.
- ⑫ THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

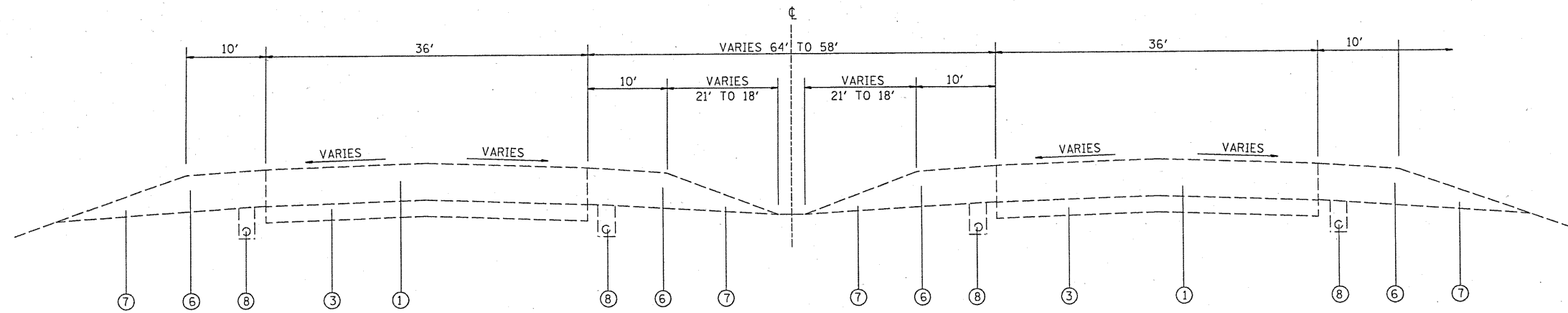
MIXTURE REQUIREMENTS - SUPERPAVE PROJECT			
ROUTE	FAP 310		
SECTION	60-9RS		
COUNTY	MADISON		
CONTRACT	76E00		
DESCRIPTION:	MICRO-SURFACING IL 255 FROM I-270 TO NSRR 0.5 MI. S. OF POAG ROAD.		
ADT (Construction Yr)	27300		
MU%:	4.4		
SU%:	3.8		
20 YR. ESAL'S:	7.84		
MIXTURE USE	Partial Depth Patch	MICRO-SURFACING	
AC/PG	PG 64-22		
RAP % (MAX)	SEE SPEC.		
DESIGN AIR VOIDS	4.0% @Ndes=90		
MIX COMPOSITION (GRADATION MIXTURE)			
FRICITION AGG	MIXTURE "E"	MIXTURE "E"	

•• Top Lift Shoulders - Design this mix at 2.0% voids and add asphalt to reduce voids to 1.5%.  
Plan quantities for Bituminous Concrete Surface Course Items are calculated using a unit weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness).

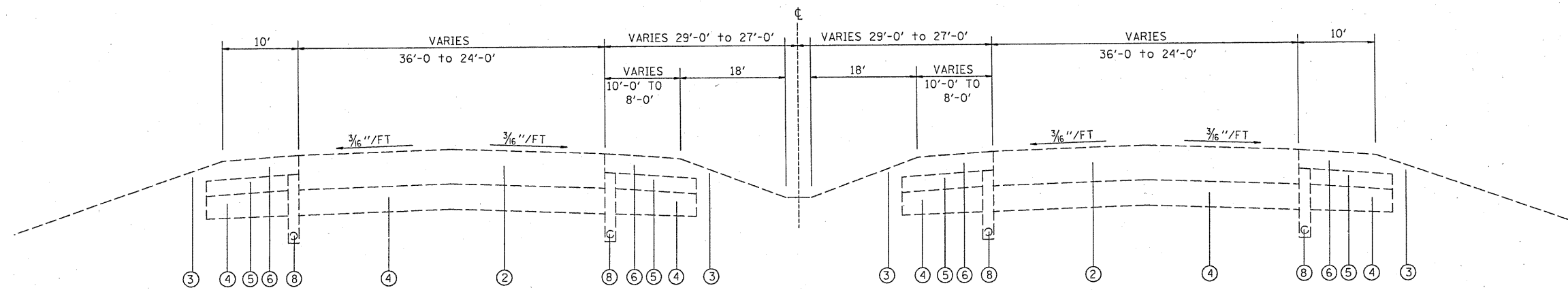
# SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	0005	-----	-----	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	-----	-----	-----	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.3	0.3									
44200557	CLASS A PATCHES, TYPE III, 10 INCH	SO YD	47	47									
44213000	PATCHING REINFORCEMENT	SO YD	58	58									
44213200	SAW CUTS	FOOT	179	179									
67100100	MOBILIZATION	L SUM	1	1									
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	9	9									
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1									
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1									
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	L SUM	1	1									
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1									
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1									
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	12232	12232									
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	85383	85383									
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	5940	5940									
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	2039	2039									
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	85383	85383									
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	5940	5940									
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1048	1048									
78300100	PAVEMENT MARKING REMOVAL	SO FT	32156	32156									
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1048	1048									
X0326220	MICRO-SURFACING RUT FILLING	FOOT	337096	337096									
<b>Z0063805</b>	MICRO-SURFACING, SINGLE PASS, TYPE II	SO YD	123499	123499									
X4421000	PARTIAL DEPTH PATCHING	TON	144	144									
<b>44022029</b>	PARTIAL DEPTH REMOVAL 3"	SO YD	859	859									
Z0075310	TIE BARS 3/4"	EACH	25	25									

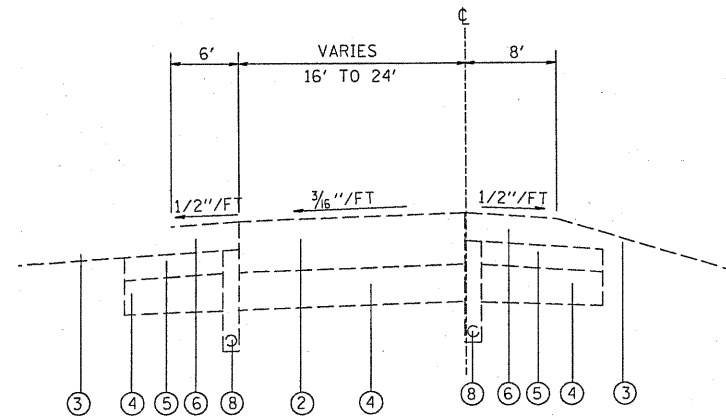
*\*Specialty Items*



I-255 - EXISTING TYPICAL SECTION  
STA. 1598+00 TO STA. 1615+52 N.B



IL 255 - EXISTING TYPICAL SECTION  
STA. 1619+35 TO STA. 1746+21



RAMP - EXISTING TYPICAL SECTION  
I-255 COLLECTOR DISTRIBUTOR - STA. 1594+00 TO STA. 1658+27  
RAMP 3 - STA. 332+89 TO STA. 354+05  
RAMP A - STA. 107+60 TO STA. 122+63  
RAMP B - 201+60 TO STA. 227+73  
RAMP C - STA. 375+70 TO STA. 397+61  
RAMP D - STA. 401+73 TO STA. 420+79

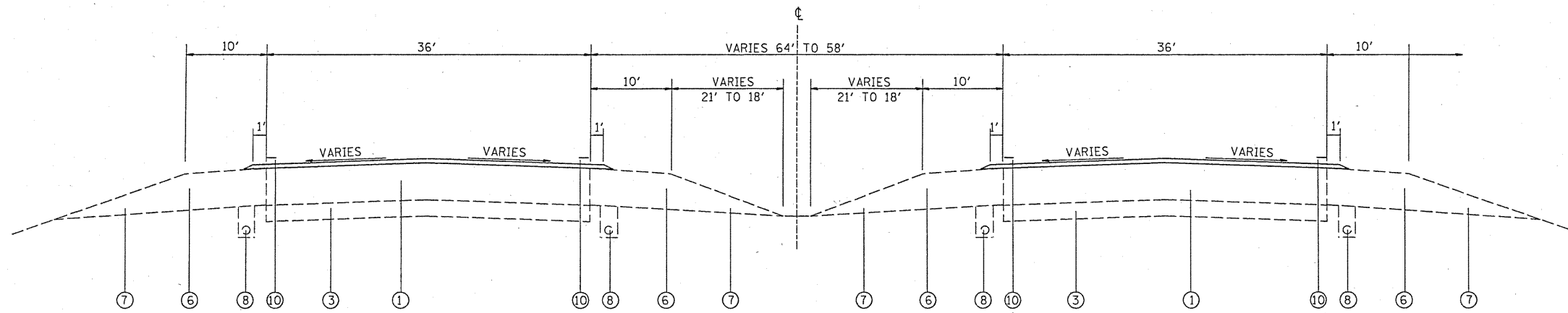
- LEGEND**
- ① EXISTING CRPCC PAVEMENT - 10"
  - ② EXISTING HMA FULL-DEPTH PAVEMENT - 16 1/2"
  - ③ EXISTING STABILIZED SUB-BASE - 4"
  - ④ EXISTING LIME MODIFIED SOIL, 12"
  - ⑤ EXISTING SUB-BASE GRANULAR MATERIAL
  - ⑥ EXISTING HMA SHOULDERS
  - ⑦ EXISTING AGG. SHOULDERS
  - ⑧ EXISTING PIPE UNDERDRAIN, 4"
  - ⑨ PROPOSED MICRO-SURFACING SINGLE PASS, TYPE II, 1/2" (WITH RUT FILLING)
  - ⑩ PROPOSED THERMOPLASTIC PAVEMENT MARKING

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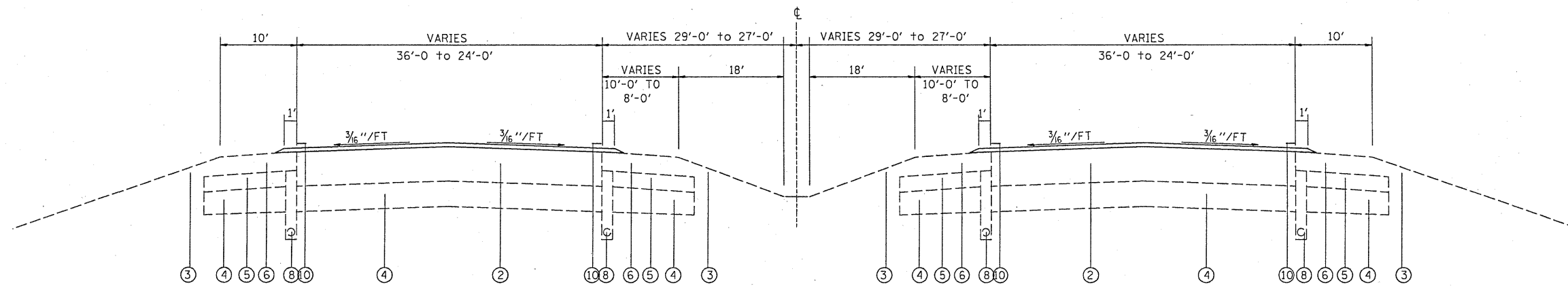
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
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STA. _____ TO STA. _____	

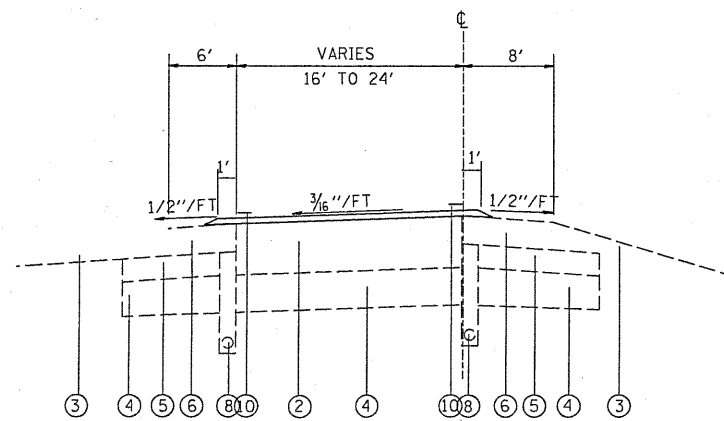
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310	60-9RS	MADISON	13	4
CONTRACT NO. 76E00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



I-255 - PROPOSED TYPICAL SECTION  
 STA. 1598+00 TO STA. 1615+52 N.B



IL 255 - PROPOSED TYPICAL SECTION  
 STA. 1619+35 TO STA. 1746+21



RAMP - PROPOSED TYPICAL SECTION  
 I-255 COLLECTOR DISTRIBUTOR - STA. 1594+00 TO STA. 1658+27  
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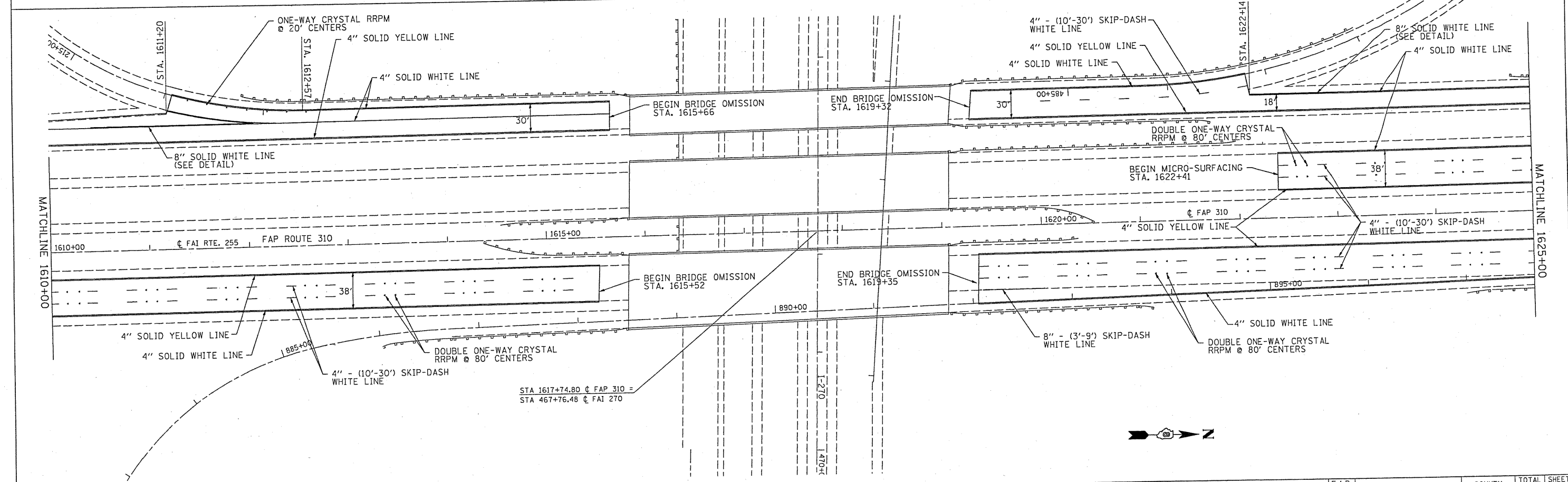
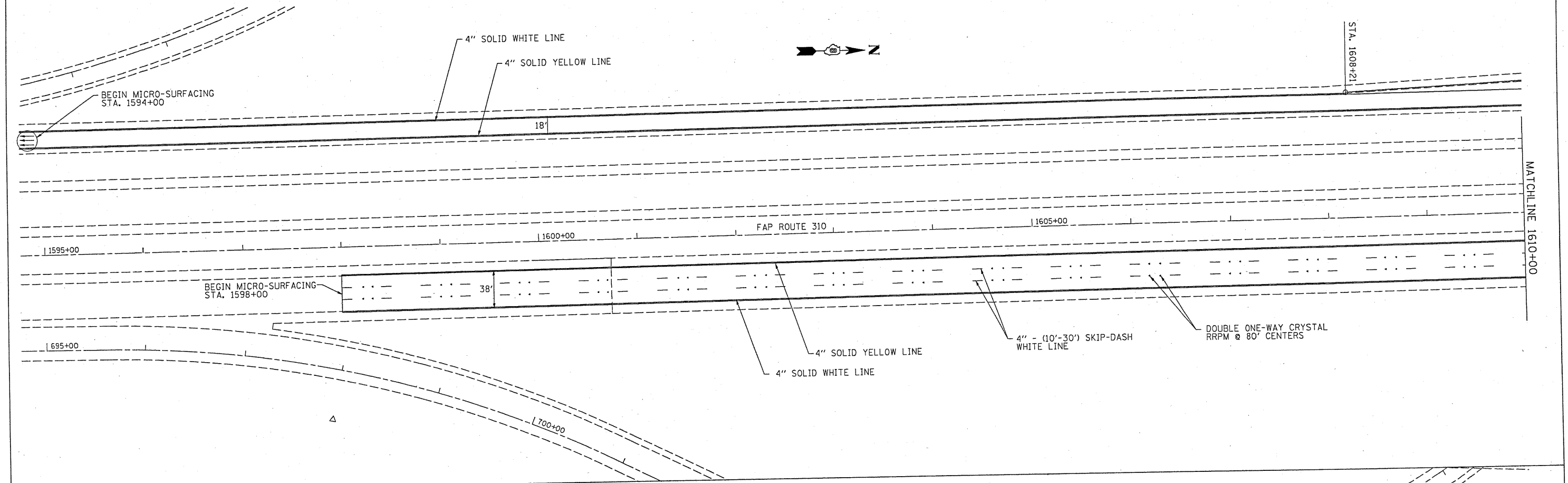
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

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310	60-9RS	MADISON	13	5
CONTRACT NO. 76E00				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				





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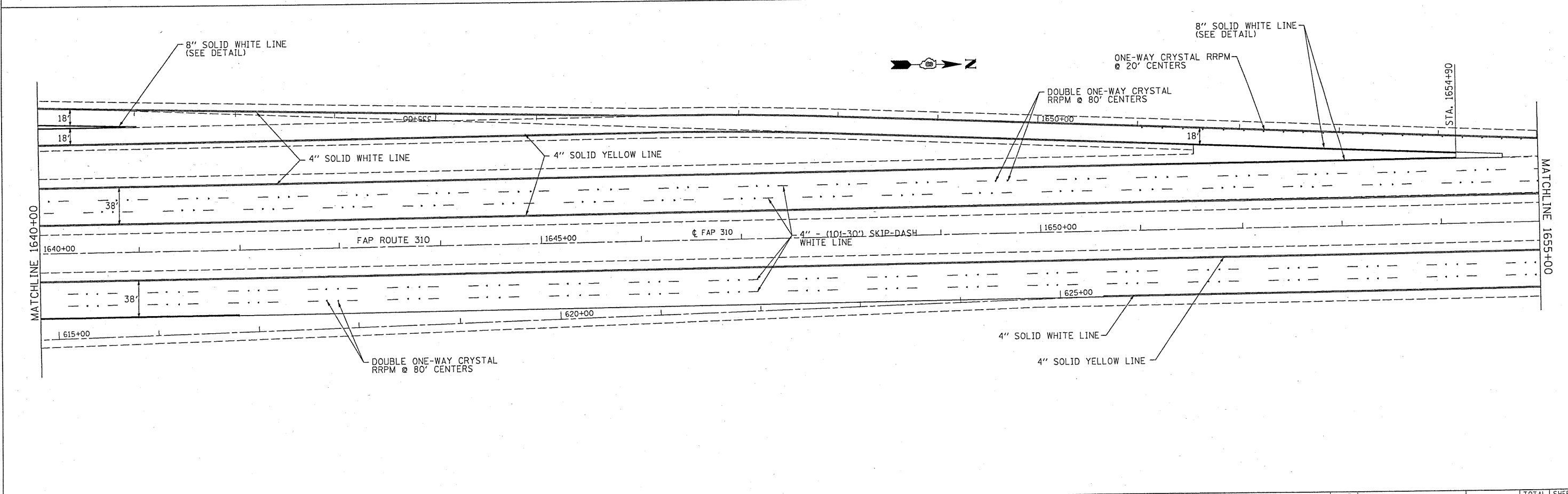
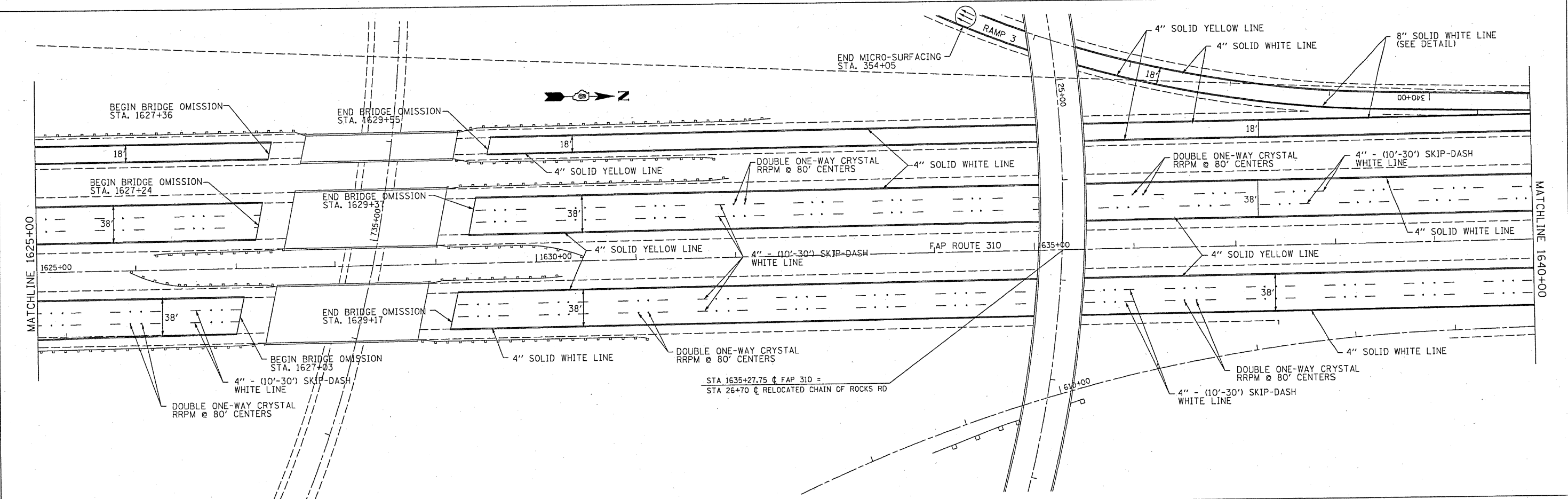
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

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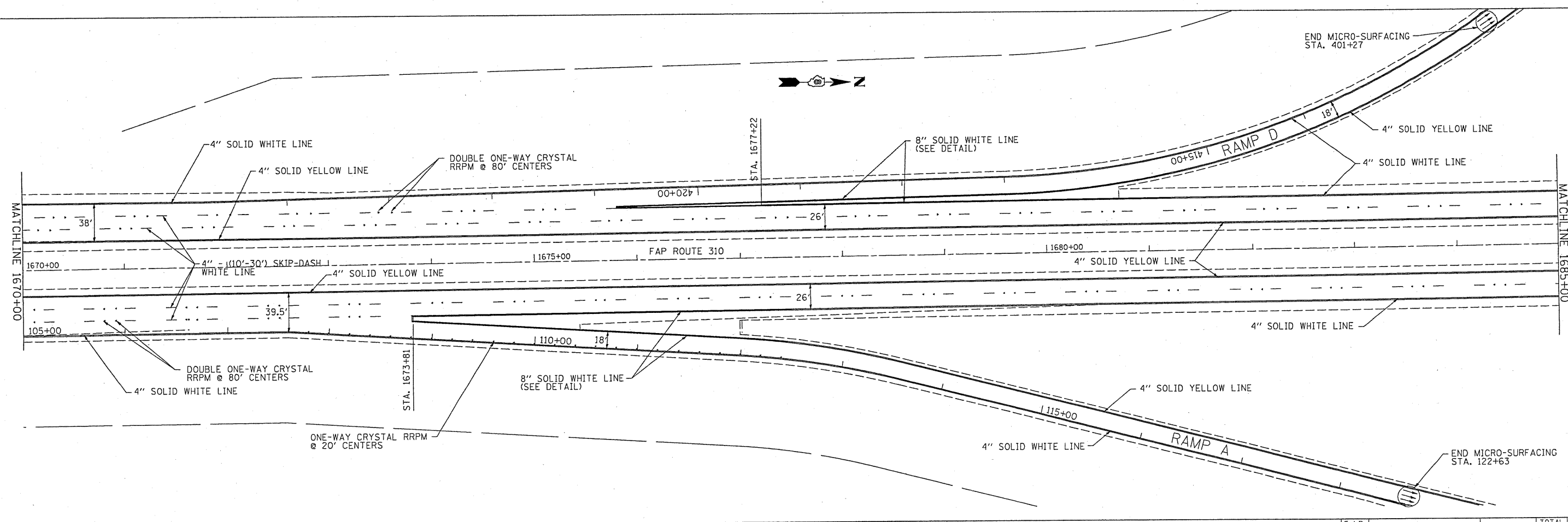
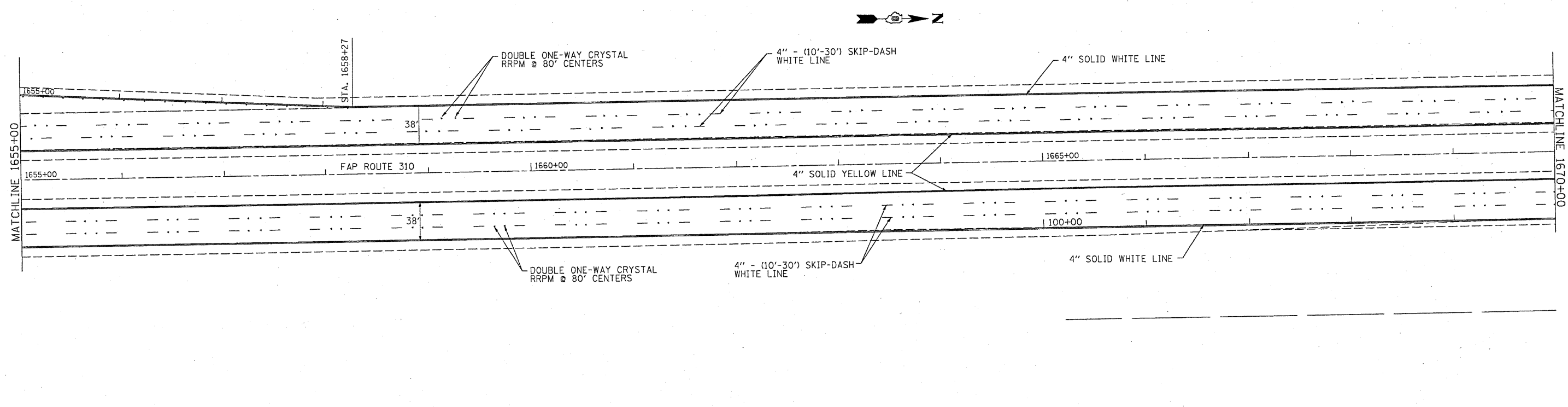
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310	60-9RS	MADISON	13	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76E00	



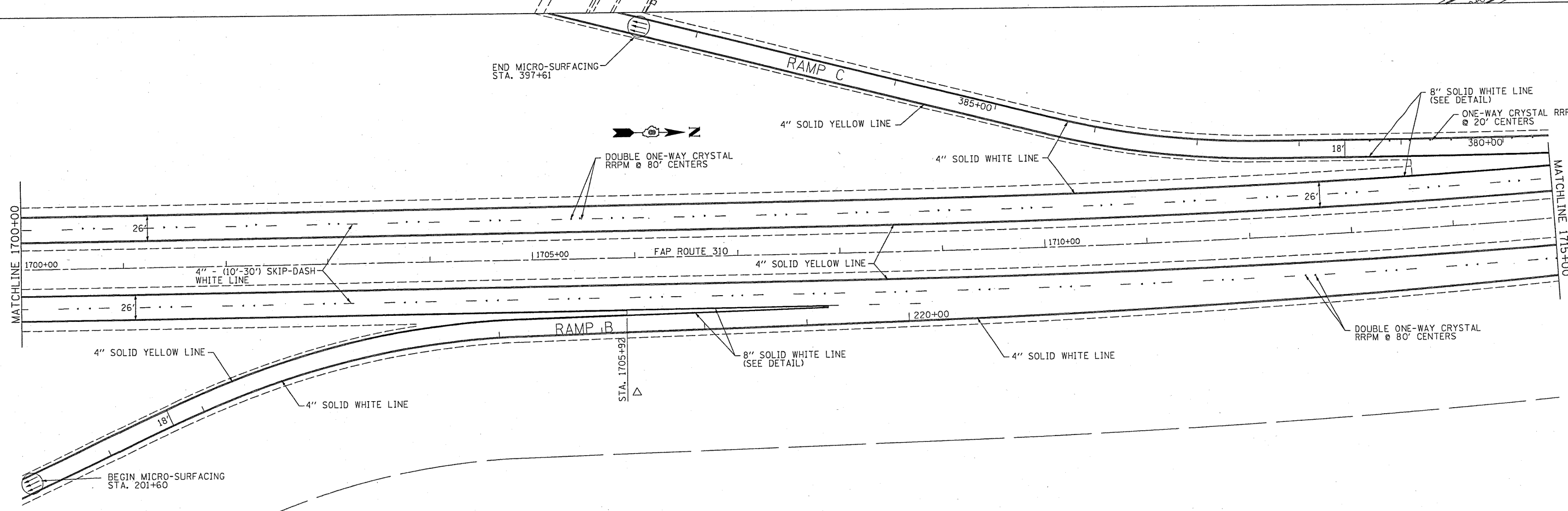
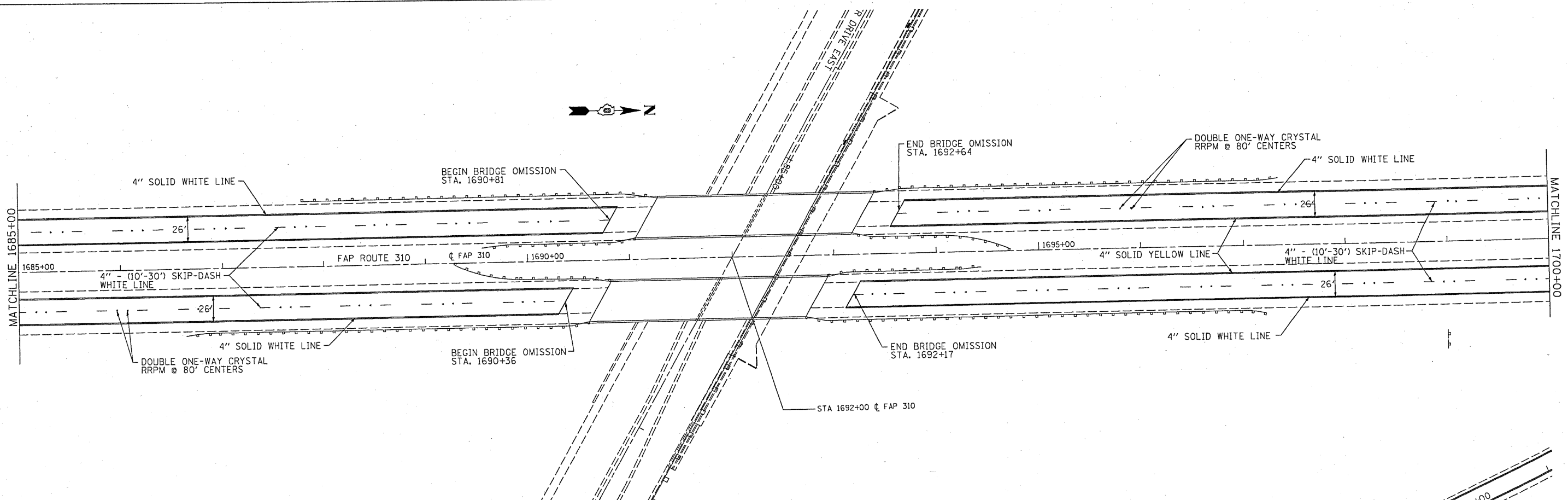


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	PLOT DATE = 8/16/2010	DATE - ---	REVISED - ---		CONTRACT NO. 76E00								





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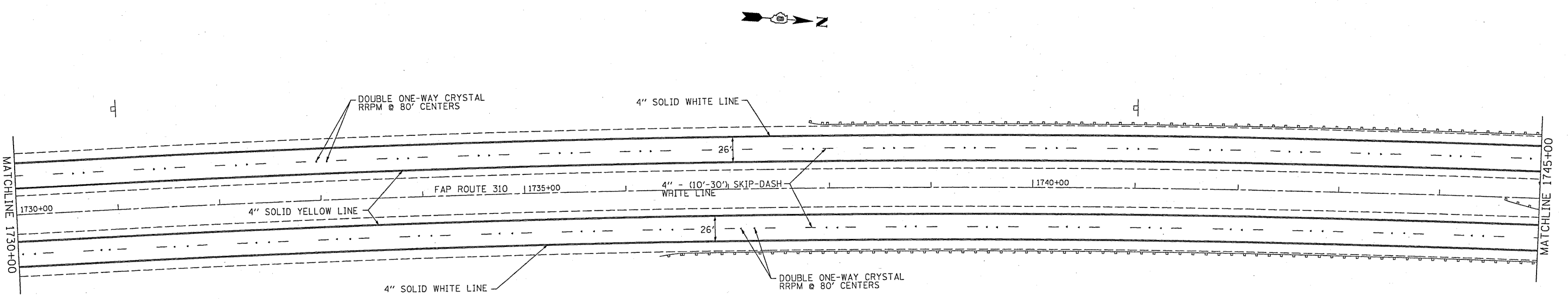
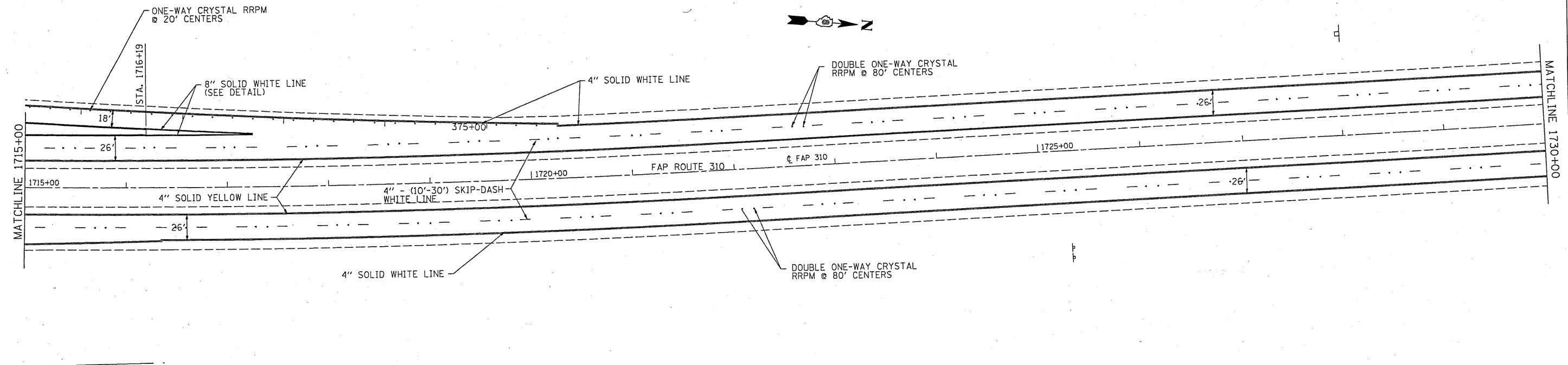
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. 310	SECTION 60-9RS	COUNTY MADISON	TOTAL SHEETS 13	SHEET NO. 10
CONTRACT NO. 76E00				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



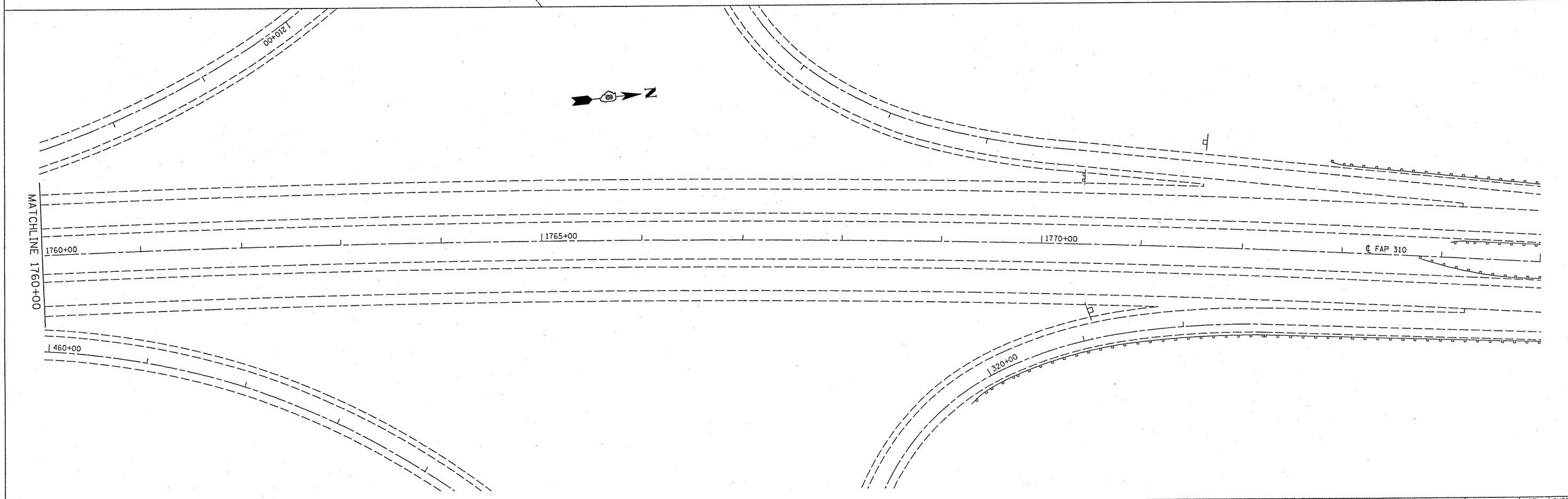
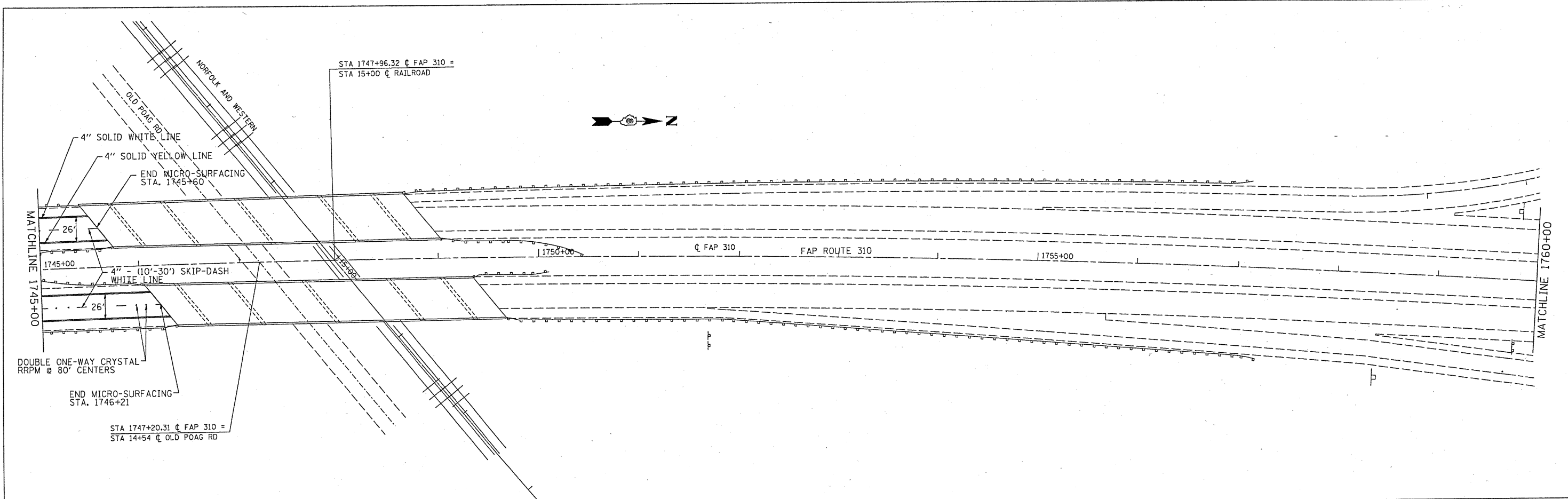
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PLOT DATE = 8/16/2018		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-9RS	MADISON	13	11
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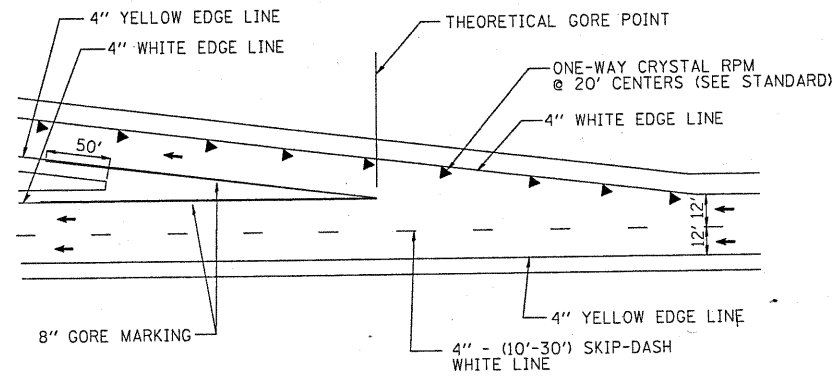
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		DATE -	REVISED -

**STATE OF ILLINOIS  
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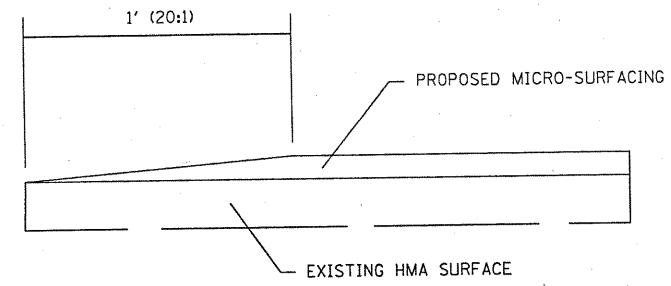
**PLAN SHEETS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

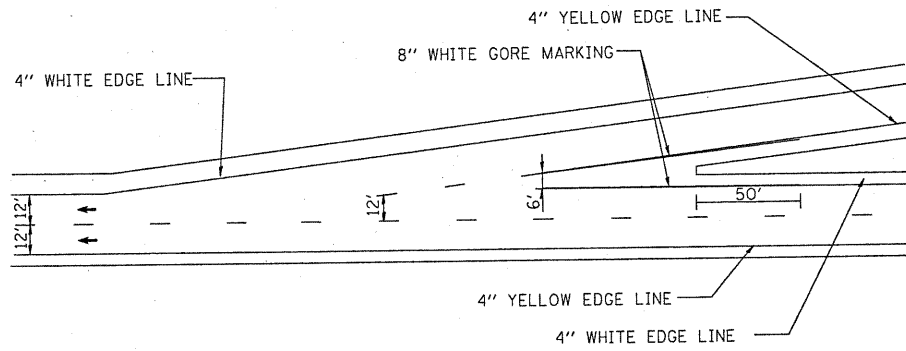
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CONTRACT NO. 76E00				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



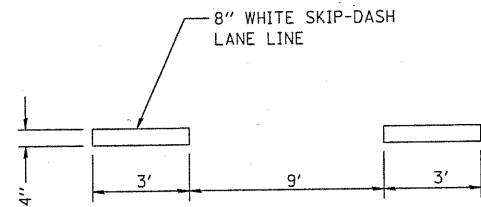
TYPICAL EXIT RAMP MARKINGS



TAPER DETAIL FOR BEGINNING AND END OF PROJECT



TYPICAL ENTRANCE RAMP MARKINGS



TYPICAL APPLICATION FOR WHITE SKIP-DASH LANE LINES

4" - (3'-9') SKIP-DASH WHITE LINE DETAIL

FILE NAME =	USER NAME = burnsideem	DESIGNED - ---	REVISED - ---
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	PLOT DATE = 8/16/2010	DATE - ---	REVISED - ---

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-9RS	MADISON	13	13
CONTRACT NO. 76E00				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				