

086

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

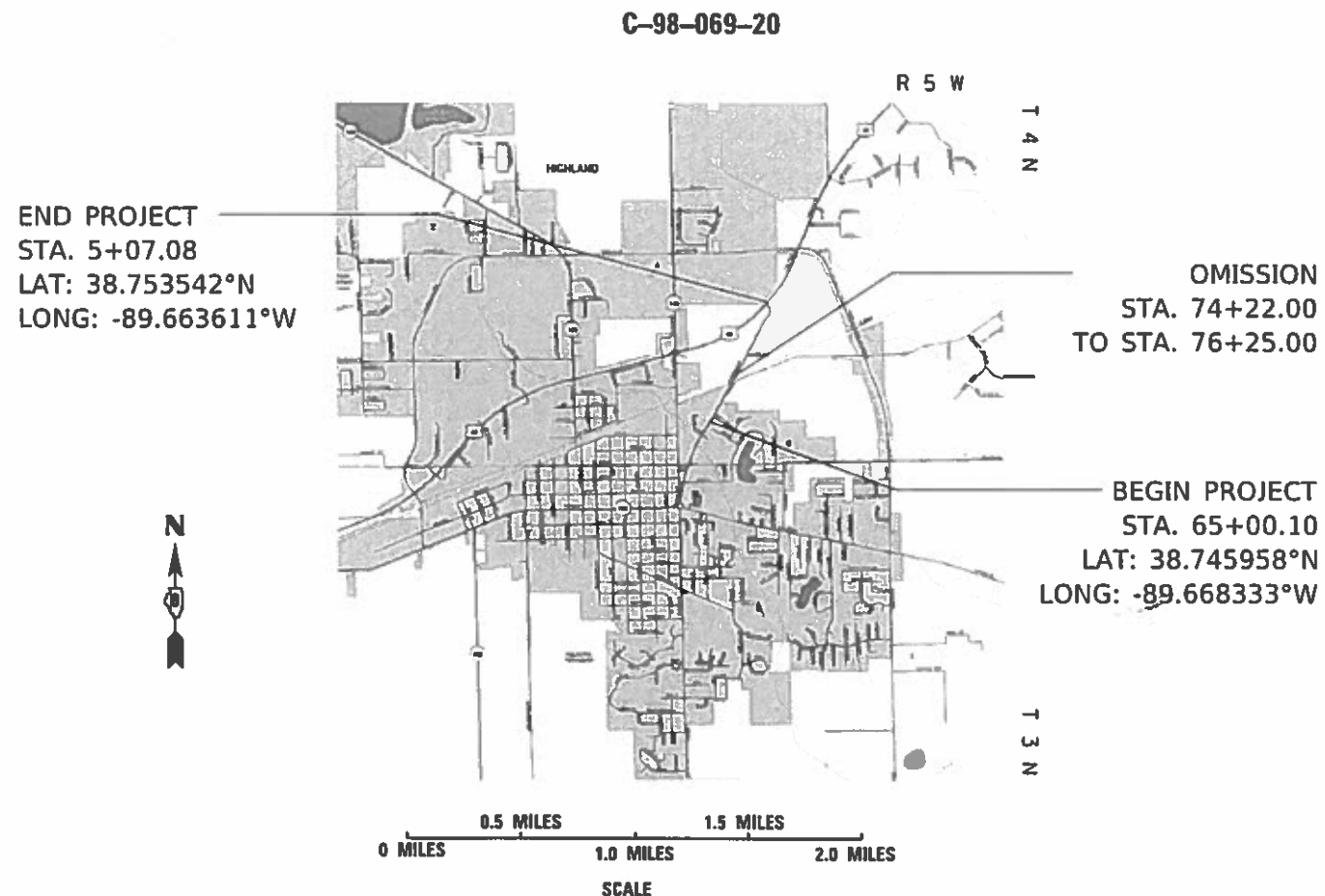
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
690	42RS-4	MADISON	6	1
INDEX			CONTRACT NO. 76N28	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

FAP ROUTE 690 (IL 160)
SECTION 42RS-4
SMART-CM
MADISON COUNTY

TRAFFIC DATA	
LOCATION	IL 160
2019 ADT	1900 (ACTUAL)
2040 ADT	2250 (ESTIMATED)
MU%	3.2
SU%	3.2



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: HELVE GELIN (618) 346-3179
PROJECT DESIGNER: THOMAS JEFFERSON (618) 346-3412

CONTRACT NO. 76N28

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *June 27, 2020*

Keith Roberts
REGIONAL ENGINEER

March 20, 2020
A. E. K.
ENGINEER OF DESIGN AND ENVIRONMENT

March 20, 2020
J. M. J.
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS
3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES

HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- ① ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
- ② THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ③ THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- ④ AN ESTIMATED QUANTITY OF 631 TONS OF CUTTINGS FROM HMA REMOVAL IS ANTICIPATED.
- ⑤ THE PROPOSED PAVEMENT MARKINGS SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKINGS, AS DIRECTED BY THE ENGINEER.
- ⑥ THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES. SEE ALSO SPECIAL PROVISIONS "HOT-MIX ASPHALT SURFACE REMOVAL WITH SKETCH OR ILLINOIS STANDARD W8-1107".
- ⑦ TWO CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 14 DAYS IN ADVANCE OF CONSTRUCTION. EXACT LOCATION OF CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- ⑧ THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS IN COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN METTING WORKFORCE AND TRAINEE GOALS.

GENERAL NOTES CONTINUED

- ⑨ THE MIXTURE REQUIREMENTS ARE AS FOLLOWS:

ROUTE	FAP 690 (IL 160)
SECTION	42RS-4
COUNTY	MADISON
CONTRACT	76N28

DESCRIPTION:	SMART - CM FROM 0.1 MILES SOUTH OF TRESTLE ROAD TO US 40
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ADT (Construction Yr)	1900
MU%:	3.16
SU%:	3.78
20 YR. ESAL'S:	0.42

MIXTURE USE	SURFACE				
AC/PG	PG 64-22				
RAP % (MAX)	SEE SPECIAL PROVISION				
DESIGN AIR VOIDS	4.0% @ Ndes=70				
MIX COMPOSITION (Gradation)	IL 9.5				
FRICTION AGG	MIXTURE "C"				
QUALITY MGMT PROGRAM	QC/QA				

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).

COMMITMENTS

NONE

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PLOT SCALE = 100.1753' / in.	DRAWN - _____	REVISED - _____		SCALE: _____	SHEET 1	OF 1	SHEETS	STA. _____	TO STA. _____	690	42RS-4	MADISON	6	2
PLOT DATE = 1/28/2020	CHECKED - _____	REVISED - _____		CONTRACT NO. 76N28										
	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0005 URBAN
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3381	3381
40600990	TEMPORARY RAMP	SQ YD	75	75
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	631	631
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	7513	7513
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	264	264
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	88	88
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	11220	11220
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	66	66
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	66	66
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	2889	2889

* SPECIALTY ITEM

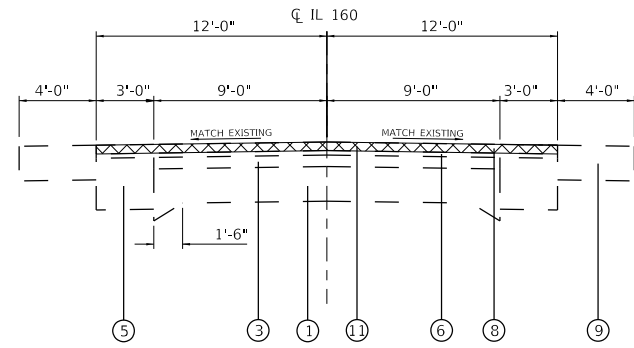
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	DATE - _____	REVISED - _____

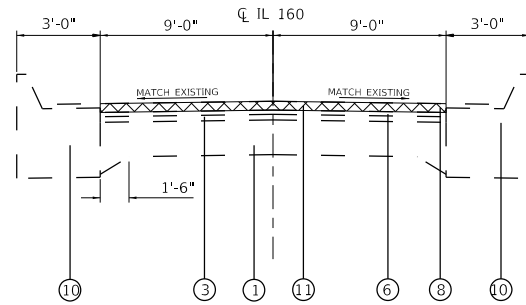
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
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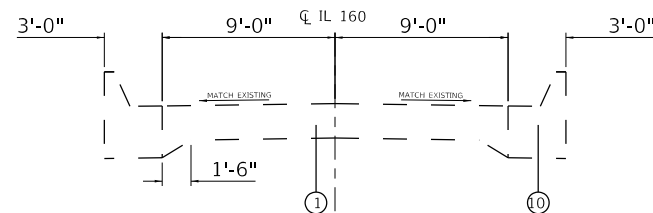
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690	42RS-4	MADISON	6	3
			CONTRACT NO. 76N28	
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
STA. 65+00.10 TO STA. 71+15.00



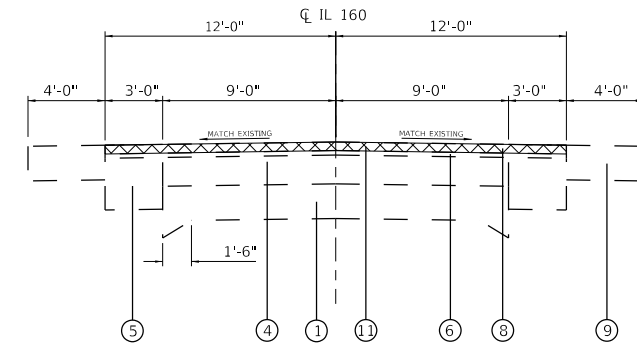
EXISTING TYPICAL SECTION
STA. 71+15.00 TO STA. 74+22.00
STA. 76+25.00 TO STA. 79+00.00



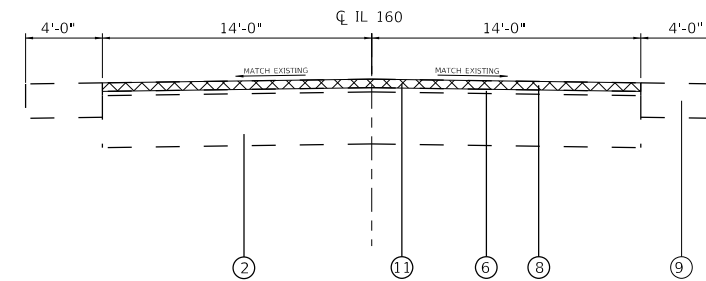
EXISTING TYPICAL SECTION - OMISSION
STA. 74+22.00 TO STA. 76+25.00

NOTE:

STATION EQUATION STA. 90+84.83 SURVEY CL =
STA. 0+00.00 CONSTRUCTION CL



EXISTING TYPICAL SECTION
STA. 79+00.00 TO STA. 90+84.83
STA. 0+00.00 TO STA. 0+65.17



EXISTING TYPICAL SECTION
STA. 0+65.17 TO STA. 5+07.08

LEGEND

- ① EXISTING 9-6-9 PAVEMENT
- ② EXISTING PCC PAVEMENT
- ③ EXISTING BITUMINOUS SURFACE, 2"
- ④ EXISTING BITUMINOUS SURFACE, 5"
- ⑤ EXISTING BITUMINOUS BASE COURSE WIDENING, 9"
- ⑥ EXISTING BITUMINOUS LEVELING BINDER, 3/4"
- ⑦ EXISTING BITUMINOUS LEVELING BINDER, 1"
- ⑧ EXISTING BITUMINOUS SURFACE COURSE, 1 1/2"
- ⑨ EXISTING AGGREGATE SHOULDER, 6"
- ⑩ EXISTING COMBINATION CURB AND GUTTER
- ⑪ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- ⑫ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", 1 1/2"
- ⑮ PROPOSED PAVEMENT MARKING

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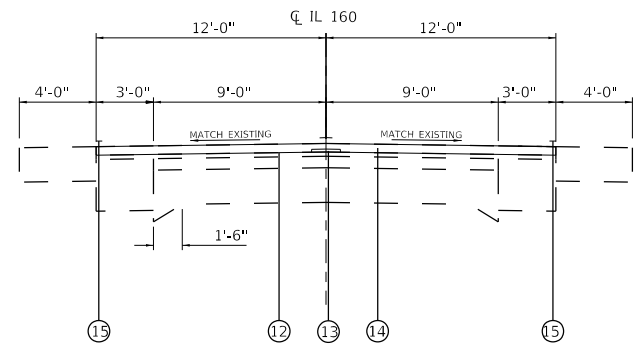
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

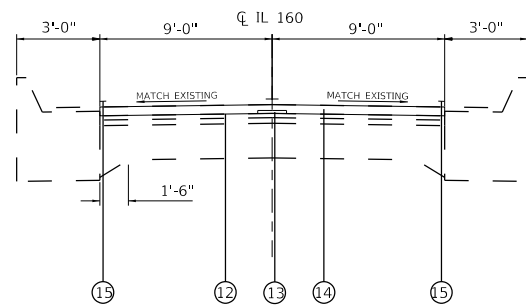
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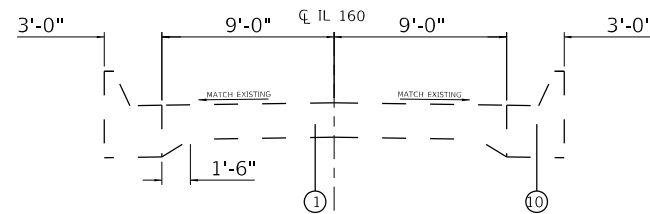
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690	42RS-4	MADISON	6	4
CONTRACT NO. 76N28				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION
STA. 65+00.10 TO STA. 71+15.00



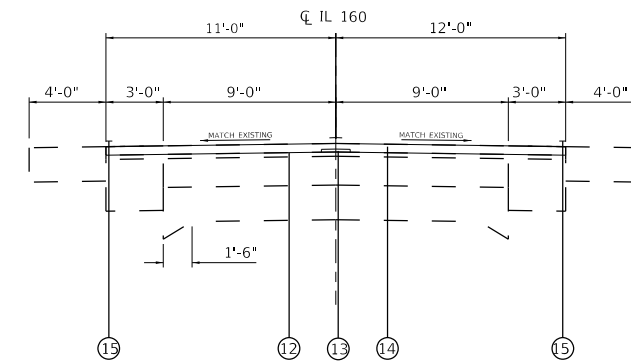
PROPOSED TYPICAL SECTION
STA. 71+15.00 TO STA. 74+22.00
STA. 76+25.00 TO STA. 79+00.00



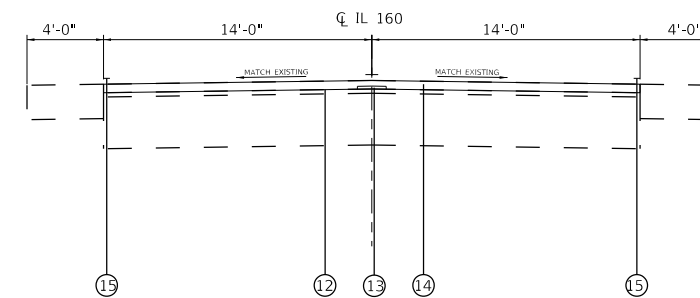
PROPOSED TYPICAL SECTION - OMISSION
STA. 74+22.00 TO STA. 76+25.00

NOTE:

STATION EQUATION STA. 90+84.83 SURVEY \bar{C} =
STA. 0+00.00 CONSTRUCTION \bar{C}



PROPOSED TYPICAL SECTION
STA. 79+00.00 TO STA. 90+84.83
STA. 0+00.00 TO STA. 0+65.17



PROPOSED TYPICAL SECTION
STA. 0+65.17 TO STA. 5+07.08

LEGEND

- ① EXISTING 9-6-9 PAVEMENT
- ② EXISTING PCC PAVEMENT
- ③ EXISTING BITUMINOUS SURFACE, 2"
- ④ EXISTING BITUMINOUS SURFACE, 5"
- ⑤ EXISTING BITUMINOUS BASE COURSE WIDENING, 9"
- ⑥ EXISTING BITUMINOUS LEVELING BINDER, 3/4"
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- ⑬ PROPOSED LONGITUDINAL JOINT SEALANT
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", 1 1/2"
- ⑮ PROPOSED PAVEMENT MARKING

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE: _____	SHEET ___ OF ___ SHEETS
STA. _____ TO STA. _____	

F.A.P. RTE. 690	SECTION 42RS-4	COUNTY MADISON	TOTAL SHEETS 6	SHEET NO. 5
CONTRACT NO. 76N28				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE							
LOCATION			THERMOPLASTIC PAVEMENT MARKING - LINE 4"			SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
			YELLOW SKIP DASH	YELLOW SOLID	WHITE SOLID		
STA	TO	STA	FOOT	FOOT	FOOT	FOOT	SQFT
65+00.10		74+22.00		1844	1844	84	28
74+22.00		76+25.00	OMISSION				
76+25.00		78+44.39		439	439	20	7
78+44.39		82+91.49	112	447	894	40	13
82+91.49		90+84.83		1587	1587	72	24
0+00.00		5+07.08		1014	1014	48	16
SUBTOTAL			112	5331	5778		
TOTAL				11220		264	88

MAINLINE PAVEMENT SCHEDULE						
LOCATION			BITUMINOUS MATERIALS (TACK COAT)	HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1.5"	HMA SURFACE REMOVAL, 1 1/2"	LONGITUDINAL JOINT SEALANT
STA.	TO	STA.	POUNDS	TON	SQ YD	FOOT
65+00.10		71+15.00	738	138	1640	615.00
71+15.00		74+22.00	276	52	614	307.00
74+22.00		76+25.00	OMISSION			
76+25.00		79+00.00	248	46	550	275.00
79+00.00		90+84.83	1422	265	3160	1185.00
00+00.00		00+65.17	78	15	174	65.00
00+65.17		05+07.08	619	115	1375	442.00
TOTAL			3381	631	7513	2889

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE					
LOCATION			RAISED REFLECTIVE PAVEMENT MARKER		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
			ONE WAY CRYSTAL	TWO WAY AMBER	
STA	TO	STA	EACH	EACH	EACH
65+00.10		70+28.10		7	7
70+28.10		74+22.00	20	5	25
74+22.00		76+25.00	OMISSION		
76+25.00		78+21.94	10	2	12
78+21.94		90+84.83		16	16
0+00.00		5+07.08		6	
SUBTOTAL			30	36	
TOTAL				66	60

TEMPORARY RAMP SCHEDULE	
LOCATION	TEMPORARY RAMP
STATION	SQYD
65+00.10	13
TRESTLE ROAD	13
74+22.00	10
76+25.00	10
BOESER ROAD	13
5+07.08	16
TOTAL	75

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PLOT DATE = 1/28/2020	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
690	42RS-4	MADISON	6	6
CONTRACT NO. 76N28			ILLINOIS FED. AID PROJECT	