

09-17-2021 LETTING ITEM 029

INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

HIGHWAY STANDARDS

SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION

INTERSECTION IMPROVEMENT AT IL 116/ IL 97 WITH INSTALLATION OF FLASHING LIGHTS AND LIGHTING UPGRADES.

DESIGN DESIGNATION (IL 116)

MINOR ARTERIAL  
2019 ADT = 1300  
MU = 80  
SU = 50

PROJECT LOCATION:  
FAIRVIEW TOWNSHIP (8N)  
RANGE 3E

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

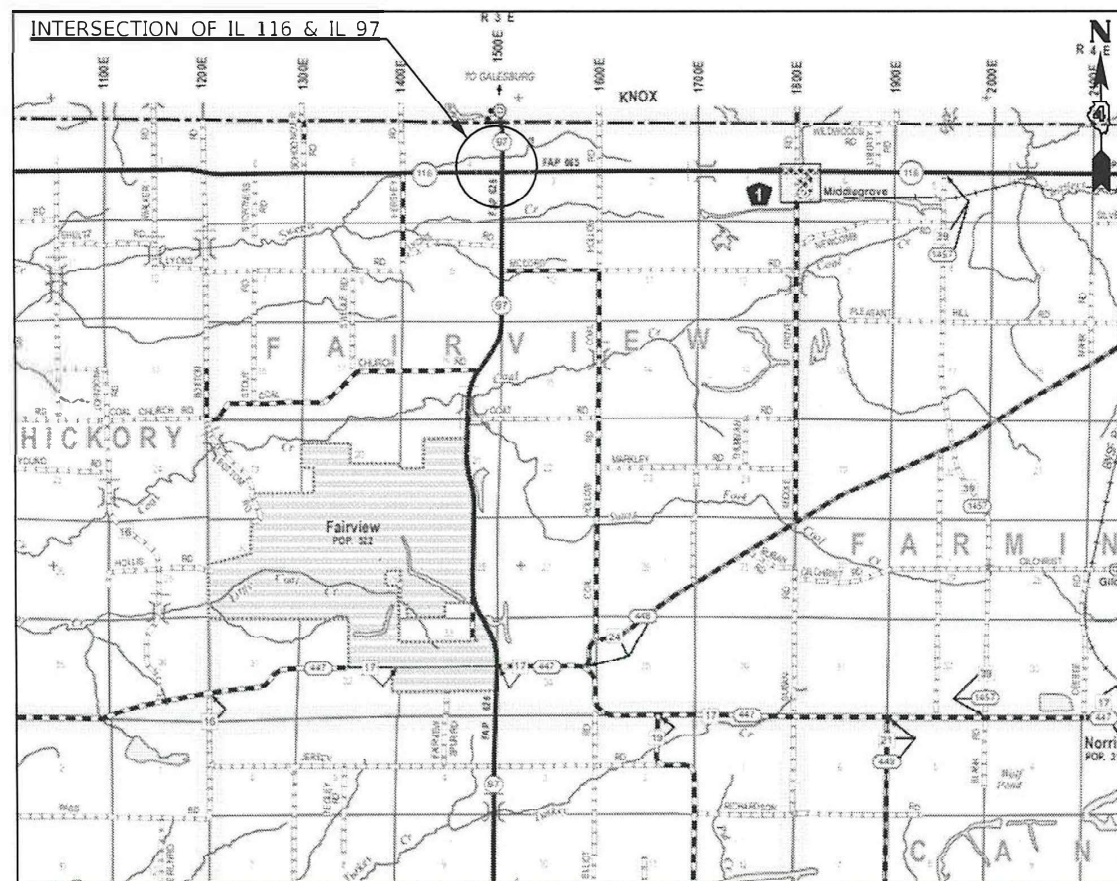
PROJECT ENGINEER: TREVOR HANSON (309) 671-4474  
PROJECT MANAGER: BEN TELLEFSON (309) 671-4477  
CATALOG NO. 36248-00D  
CONTRACT NO. 68G62

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAP 665 (IL 116)  
SECTION (143,23)N,L  
FULTON COUNTY  
PROJECT NUMBER: HSIP-BZJH(617)

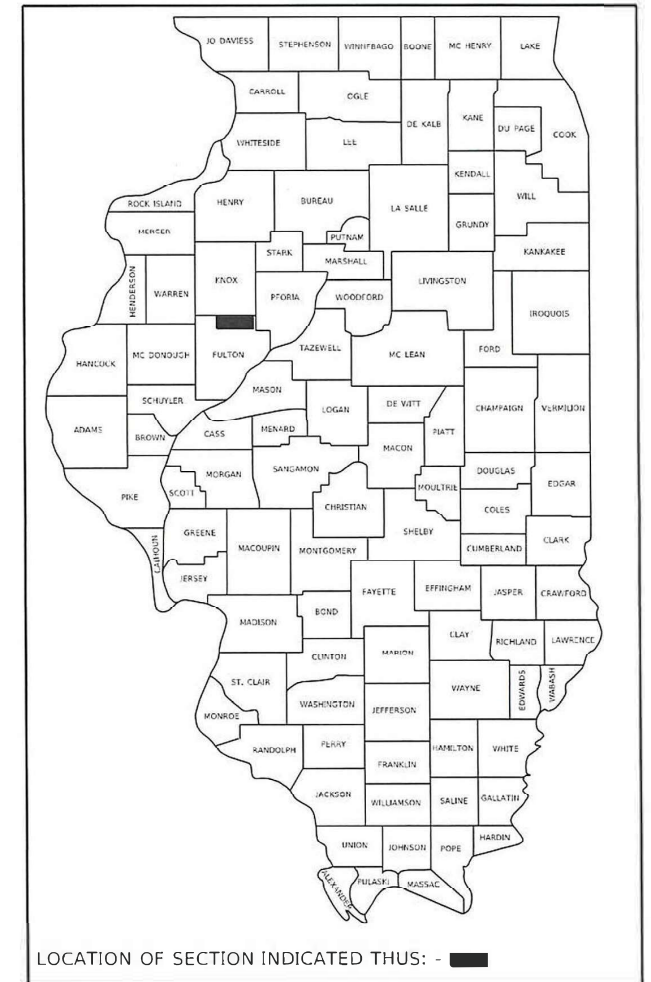
C-94-085-21



GROSS LENGTH = 2743 FT. = 0.52 MILE  
NET LENGTH = 2743 FT. = 0.52 MILE

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 116 (FAP 665)	(143,23)N,L	FULTON	37	1
ILLINOIS CONTRACT NO. 68G62				

D-94-064-21



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 24 2021  
Randa James  
REGION THREE ENGINEER

August 13, 2021  
Scott A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT

August 13, 2021  
James J. Quinn  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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HIGHWAY STANDARDS	
STANDARD	APPLICATION
00001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
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
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
814001-03	HANDHOLES
821101-02	LUMINAIRE WIRING IN POLE
825011-04	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
830021-03	LIGHT POLE STEEL TENON TOP
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND HIGHWAY STANDARDS**  
**IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	2
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

**PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM**

All elevations shown refer to U.S.G.S. datum at mean sea level unless otherwise noted.

**COMMITMENTS**

No commitments has been made.

**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.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Borrow Site Review)
- \* 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

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall 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.

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

**AGGREGATE WEDGE SHOULDER, TYPE B**

Aggregate Wedge Shoulder, Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

**POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES**

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb / sq ft
Existing Pavement	0.08 lb / sq ft
Fog Coat (between lifts)	0.08 lb / sq ft

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

Mixture Use(s):	Shoulders Surface	Shoulders (Lower Lifts)
AC/PC:	PG 58-28	PG 58-28
Design Air Voids:	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Gradation Mixture):	IL 9.5 FG	IL 19.0
Friction Aggregate:	MIX C	N/A
Quality Management:	QCQA	QCQA

**Notes:**

1) For design purposes, mixture weight for all mixes is determined to be 112.0 lb./s.y./in., unless otherwise noted.

**MEDIAN AND ISLAND NOSES**

When constructing median and island noses the following criteria should be followed:

- \* Barrier curb shall be used to construct noses when the median or island surrounds a mast arm or other non-breakaway foundation.
- \* Ramped noses shall be used on medians or islands with breakaway posts.

**SIGN POST HOLES**

Vertical holes shall be constructed in the island pavement and/or concrete median of the type specified or concrete median surface 4 inches (100 mm). The holes shall be 24 inches (600 mm) in diameter or 24 inches (600 mm) square and they shall be free of any obstruction, except earth, for a depth of 5 feet (1.5 m) at the locations shown on the plans or as directed by the Engineer. Any holes not used for the placement of signs shall be filled and compacted flush with the top of the island pavement, concrete median of the types specified, or concrete median surface 4 inches (100 mm). The top 3 inches (75 mm) of said compacted fill shall consist of a hot-mix asphalt mixture. All holes in which the sign posts are installed at the time of this contract shall be similarly filled.

This work, including any required pavement removal necessary to construct the sign post holes, will not be paid for separately but shall be included in the contract unit price per square foot (square meter) for ISLAND PAVEMENT and/or CONCRETE MEDIAN of the type specified, or CONCRETE MEDIAN SURFACE, 4 inches (100 mm).

**ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL**

The Department reserves the right at any time to add additional Traffic Control Systems or devices within the active contract limits, by means of an additional contract. All terms of Article 105.08 of the Standard Specifications shall be followed by each Contractor.

**SIGNING**

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

**JOB SPECIFIC NOTE:**

1. Existing plan view conditions based on old plans and aerial photographs.  
Cross Section based on Lidar information. Existing ground conditions shall be verified on the field.
2. TRAFFIC CONTROL PLANS:  
Flaggers will be used on the sideroads and will not be paid separately, and will be included in the cost of traffic control and protection, Standard 701201.

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PLOT DATE = 6/25/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N,L	FULTON	37	3
			CONTRACT NO. 68G62	
		ILLINOIS	FED. AID PROJECT	

STATUS OF UTILITIES						
COMPANY	CONTACT	TYPE OF UTILITY	TYPE OF CONFLICT	LOCATION	MIN. DEPTH	DISPOSITION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 116 STA. 285+45.9 OFFSET 53.1' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 116 STA. 287+73.8 OFFSET 50.5' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 116 STA. 289+43.9 OFFSET 60.2' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 116 STA. 292+60.7 OFFSET 54.0' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 116 STA. 294+20.4 OFFSET 52.4' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 116 STA. 295+80.6 OFFSET 54.3' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 97 STA. 317+57.5 OFFSET 52.4' RT		CAUTION
AMEREN ELECTRIC	JON REICK 8420 N. UNIVERSITY ST. PEORIA, IL 61615 (309) 693-4697	POWER POLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	IL 97 STA. 323+8.2 OFFSET 68.3' RT		CAUTION
AT&T	WILLIAM CONOVER 8515 INDUSTRIAL DR. PEORIA, IL 61615 (309) 686-3317	UNDERGROUND COMMUNICATIONS CONDUIT	CONDUIT/ UNIT DUCT INSTALLATION, SIGN INSTALLATION, LIGHT POLE INSTALLATION	THROUGHOUT PROJECT	2 FT.	CAUTION
MEDIACOM COMMUNICATIONS	SCOTT ROBERTS 4290 BLUE STEM RD. CHARLESTON, IL 61920 (217) 348-5533	OPTICAL CABLE (AERIAL)	CONDUIT/ UNIT DUCT INSTALLATION	CO-LOCATED ON AMEREN POWER POLES		CAUTION

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STATUS OF UTILITIES**  
**IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	4
CONTRACT NO. 68G62			ILLINOIS FED. AID PROJECT	

## SUMMARY OF QUANTITIES

FULTON COUNTY  
 CONST. TYPE  
 CODE 0021  
 90% FEDERAL  
 10% STATE  
 RURAL  
 (SAFETY FUNDS)

CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	
20200100	EARTH EXCAVATION	CU YD	156.0	156.0
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	343.2	343.2
44000100	PAVEMENT REMOVAL	SQYD	53.0	53.0
44000189	HOT MIX ASPHALT SURFACE REMOVAL, 10"	SQYD	437.0	437.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	60.3	60.3
48203029	HOT MIX ASPHALT SHOULDERS, 8"	SQYD	476.7	476.7
60618760	CONCRETE MEDIAN TYPE M 4.12	SQFT	3925.6	3925.6
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4.0	4.0
67100100	MOBILIZATION	L SUM	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	1.0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1.0	1.0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56.0	56.0
* 72000100	SIGN PANEL, TYPE 1	SQ FT	96.4	96.4
73000100	WOOD SIGN SUPPORT	FOOT	32.0	32.0
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	93.6	93.6
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	28788.0	28788.0

\*= SPECIALTY ITEM

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	5
			CONTRACT NO. 68G62	
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES - CONTINUED

FULTON COUNTY  
 CONST. TYPE  
 CODE 0021  
 90% FEDERAL  
 10% STATE  
 RURAL  
 (SAFETY FUNDS)

CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	375.0
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1921.0
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	131.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	218.0
* 78200020	CURB REFLECTORS	EACH	50.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	218.0
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	31.2
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1.0
* 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	1556.0
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	440.0
* 81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2.0
* 81603111	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	2128.0
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	10.0
* 82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
* 83060830	LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	6.0
* 83060835	LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT-TWIN	EACH	2.0
* 83600358	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 8'	EACH	8.0

\*= SPECIALTY ITEM

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PLOT SCALE = 50.3767' / in.	CHECKED -	REVISED -			CONTRACT NO. 68G62				
PLOT DATE = 6/25/2021	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE:		SHEET OF SHEETS STA. TO STA.							

SUMMARY OF QUANTITIES - CONTINUED

FULTON COUNTY  
 CONST. TYPE  
 CODE 0021  
 90% FEDERAL  
 10% STATE  
 RURAL

CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	(SAFETY FUNDS)
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	32.0	32.0
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1192.0	1192.0
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2035.5	2035.5
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6.0	6.0
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2.0	2.0
* 87700430	STEEL MAST ARM ASSEMBLY AND POLE, 75 FT.	EACH	1.0	1.0
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24.0	24.0
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25.0	25.0
* 87900200	DRILL EXISTING HANDHOLE	EACH	5.0	5.0
* 88030012	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	10.0	10.0
* 88040410	SIGNAL HEAD, POLYCARBONATE, LED, 4-FACE, 1-SECTION, MAST ARM MOUNTED	EACH	1.0	1.0
* 88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	14.0	14.0
* X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0	1.0
X4402815	ISLAND PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	70.0	70.0
* X8210402	LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	8.0	8.0

\*= SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES - CONTINUED  
 IL 116 & IL 97 - FULTON COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	7
			CONTRACT NO. 68G62	
		ILLINOIS FED. AID PROJECT		

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EARTH EXCAVATION				
LOCATION STATION TO STATION	END AREA (SQFT)	DISTANCE (FOOT)	AVG. END AREA (SQFT)	EARTH WORK VOL. (CUYD)
IL ROUTE 97				
318+25	0			
		25	3	2.7
318+50	5.75			
		50	6	11.5
319+00	6.66			
		50	8	15.5
319+50	10.13			
		50	5	9.4
320+00	0			
		50	4	8
320+50	8.6			
		50	7	13.8
321+00	6.25			
		50	6	10.9
321+50	5.52			
		20	3	2.1
321+70	0			
SUB- TOTAL (1) =				73.9
IL ROUTE 116				
288+00	0			
		50	2	2.9
288+50	3.8			
		50	3	5.7
289+00	3.11			
		50	6	10.2
289+50	7.93			
		50	8	14.4
290+00	7.58			
		50	4	7
290+50	0			
		50	6	11.8
291+00	12.72			
		50	10	17.6
291+50	6.29			
		50	5	8.7
292+00	3.12			
		17.79	3	2
292+18	3			
		32.21	2	1.8
292+50	0			
SUB-TOTAL (2)				82.1
TOTAL				156.0

PAVEMENT REMOVAL				
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQFT)	AREA (SQYD)
NORTHWEST CORNER	283.02	0.5	141.51	15.7
SOUTHWEST CORNER	222.53	0.5	111.27	12.4
NORTHEAST CORNER	211.21	0.5	105.61	11.7
SOUTHEAST CORNER	236.65	0.5	118.33	13.2
TOTAL				53.0

HOT-MIX ASPHALT SURFACE REMOVAL, 10"				
LOCATION STATION TO STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQFT)	AREA (SQYD)
289+00.20 TO 290+00.20	100	6	600	67
291+14.29 TO 292+14.29	100	6	600	67
318+25 TO 319+57.75	132.75	12	1559.35	173
320+26.58 TO 321+26.58	100	12	1166.24	130
TOTAL				437.0

HOT-MIX ASPHALT SHOULDERS, 8"				
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQFT)	AREA (SQYD)
NORTHWEST CORNER	283.02	4.5	1273.59	141.5
SOUTHWEST CORNER	222.53	4.5	1001.39	111.3
NORTHEAST CORNER	211.21	4.5	950.45	105.6
SOUTHEAST CORNER	236.65	4.5	1064.93	118.3
TOTAL				476.7

AGGREGATE WEDGE SHOULDER, TYPE B					
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	AVG. AREA (SQFT)	VOLUME (CUYD)	WEIGHT (TONS)
NORTHWEST CORNER	276	2	0.88	9	18
SOUTHWEST CORNER	215.36	2	0.88	7	14
NORTHEAST CORNER	204.05	2	0.88	6.65	13.3
SOUTHEAST CORNER	229.91	2	0.88	7.5	15
TOTAL					60.3
RATE = 2.0 TONS / CUYD					

CONCRETE MEDIAN TYPE M 4.12			
LOCATION STATION TO STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQFT)
289+00.20 TO 290+00.20	100	6	600.0
291+14.29 TO 292+14.29	100	6	600.0
318+25 TO 319+57.75	132.75	12	1559.4
320+26.58 TO 321+26.58	100	12	1166.2
TOTAL			3925.6

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)				
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQFT)	WEIGHT (POUNDS)
NORTHWEST CORNER	283.02	4.5	1273.59	101.9
SOUTHWEST CORNER	222.53	4.5	1001.39	80.1
NORTHEAST CORNER	211.21	4.5	950.45	76.0
SOUTHEAST CORNER	236.65	4.5	1064.93	85.2
TOTAL				343.2
RATE = 0.08 LBS/SQFT				

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES IL 116 &amp; IL 97 - FULTON COUNTY</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N,L	FULTON	37	8
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				



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ENGINEERS' FIELD OFFICE , TYPE B	
LOCATION	QTY. (CAL MO)
JOBSITE	4.0
<b>TOTAL</b>	<b>4.0</b>

TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	
LOCATION	QTY. (L.SUM)
JOBSITE	1.0
<b>TOTAL</b>	<b>1.0</b>

TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	
LOCATION	QTY. (L.SUM)
JOBSITE	1.0
<b>TOTAL</b>	<b>1.0</b>

TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	
LOCATION	QTY. (L.SUM)
JOBSITE	1.0
<b>TOTAL</b>	<b>1.0</b>

CHANGEABLE MESSAGE SIGN	
LOCATION	QTY. CAL DAY
JOBSITE	56.0
<b>TOTAL</b>	<b>56.0</b>

MOBILIZATION	
LOCATION	QTY. L. SUM
JOBSITE	1.0
<b>TOTAL</b>	<b>1.0</b>

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES - CONTINUED**  
**IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N,L	FULTON	37	9
			CONTRACT NO. 68G62	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES			FULTON COUNTY
ITEM DESCRIPTION	UNIT	TOTAL QTY.	IL 116 & IL 97
SIGN PANEL, TYPE 1	SQ FT	96.4	96.4
WOOD SIGN SUPPORT	FOOT	32.0	32.0
ELECTRIC SERVICE INSTALLATION	EACH	1.0	1.0
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	1556.0	1556.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	570.0	570.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2.0	2.0
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	2128.0	2128.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	10.0	10.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0	1.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	6.0	6.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT-TWIN	EACH	2.0	2.0
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 8'	EACH	8.0	8.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	32.0	32.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1192.0	1192.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2035.5	2035.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6.0	6.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2.0	2.0
STEEL MAST ARM ASSEMBLY AND POLE, 75 FT.	EACH	1.0	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	24.0	24.0

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES - CONTINUED  
IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N,L	FULTON	37	10
			CONTRACT NO. 68G62	
ILLINOIS		FED. AID PROJECT		

SCHEDULE OF QUANTITIES - CONTINUED			FULTON COUNTY
ITEM DESCRIPTION	UNIT	TOTAL QTY.	IL 116 & IL 97
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25.0	25.0
DRILL EXISTING HANDHOLE	EACH	5.0	5.0
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	10.0	10.0
SIGNAL HEAD, POLYCARBONATE, LED, 4-FACE, 1-SECTION, MAST ARM MOUNTED	EACH	1.0	1.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	14.0	14.0
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0	1.0
ISLAND PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	70.0	70.0
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	8.0	8.0

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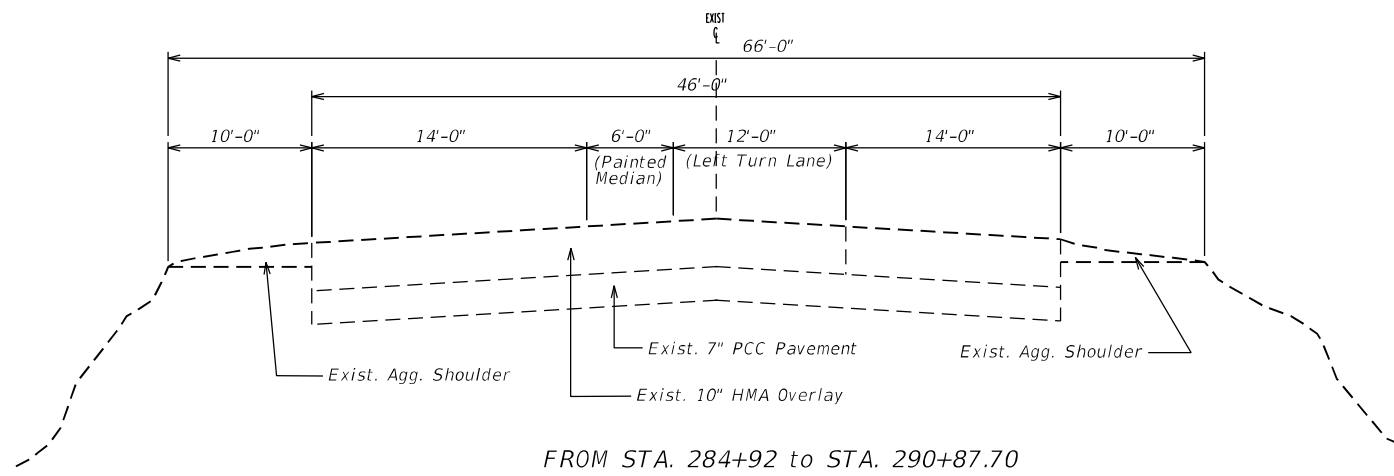
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**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES - CONTINUED**  
**IL 116 & IL 97 - FULTON COUNTY**

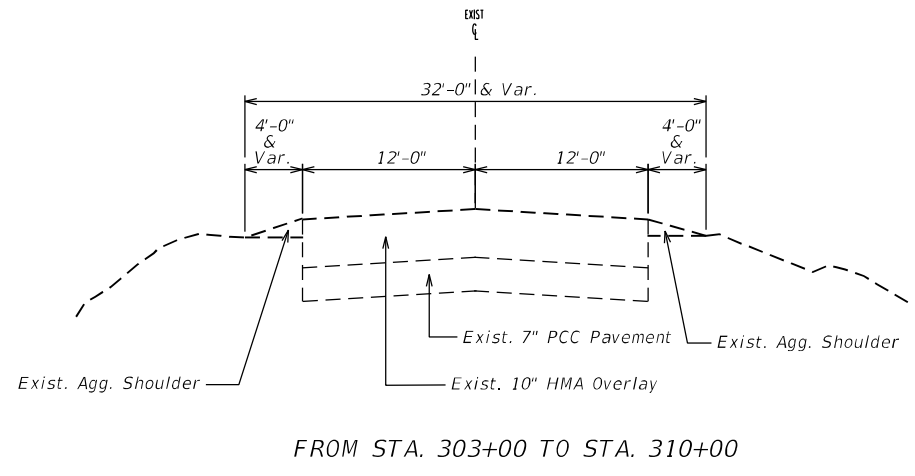
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68G62			ILLINOIS FED. AID PROJECT	

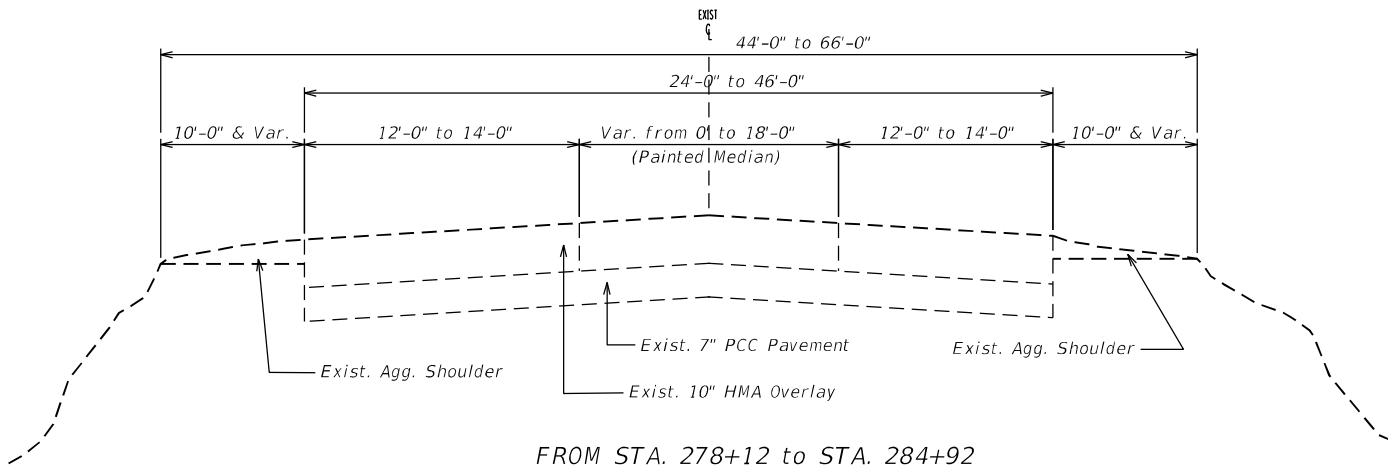
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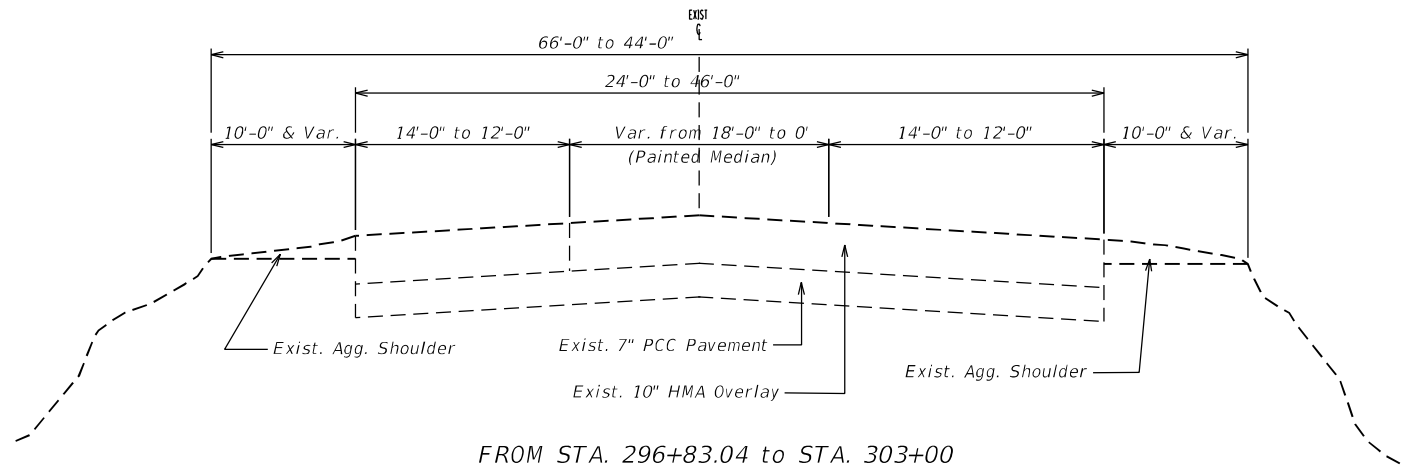
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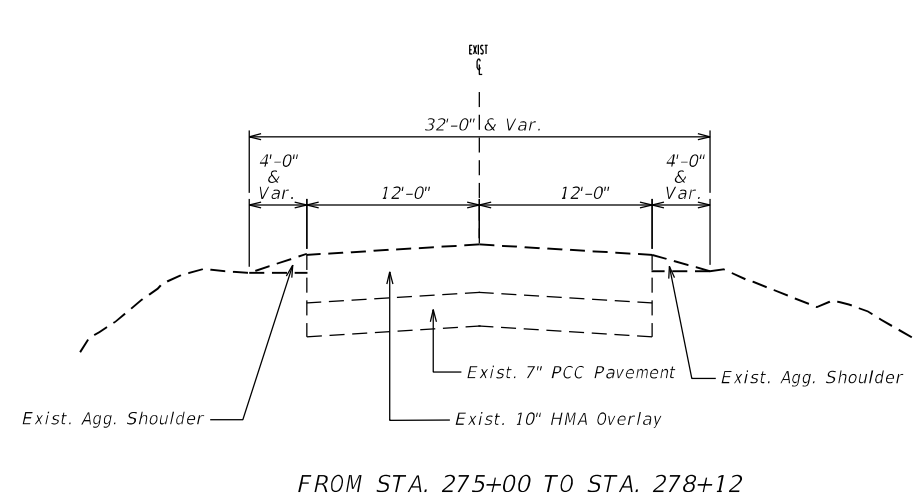
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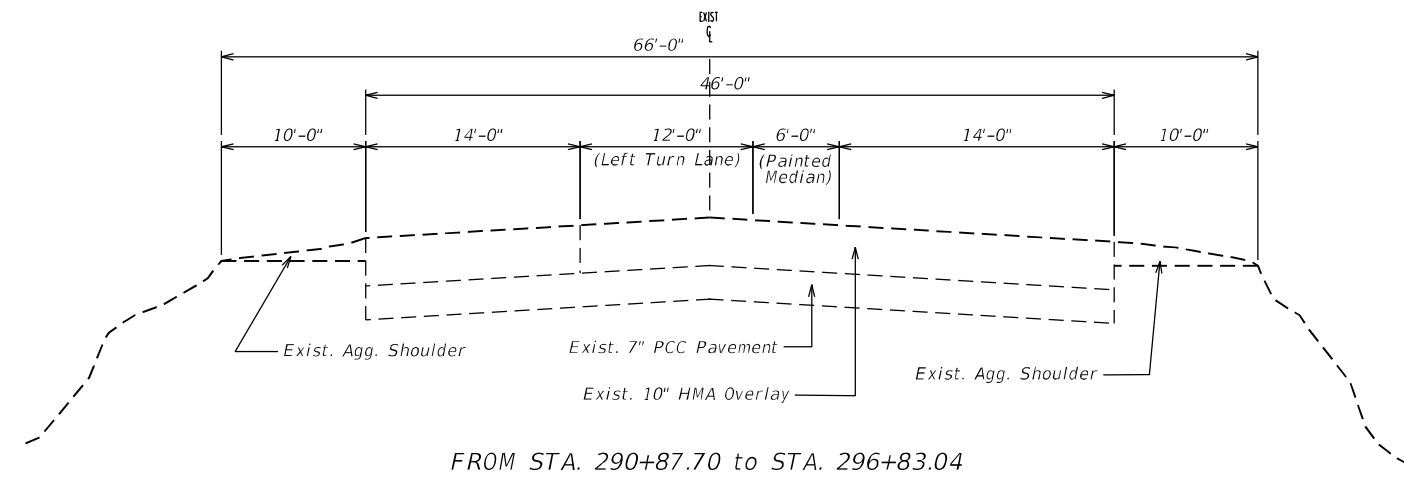
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FROM STA. 296+83.04 to STA. 303+00



FROM STA. 275+00 TO STA. 278+12



FROM STA. 290+87.70 to STA. 296+83.04

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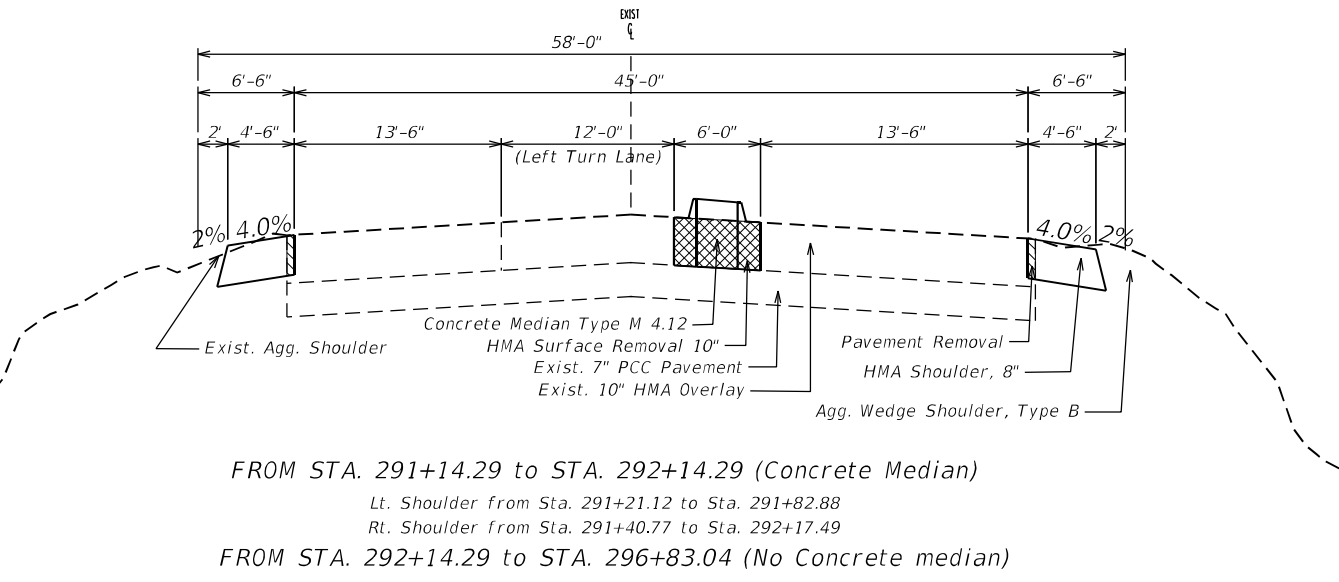
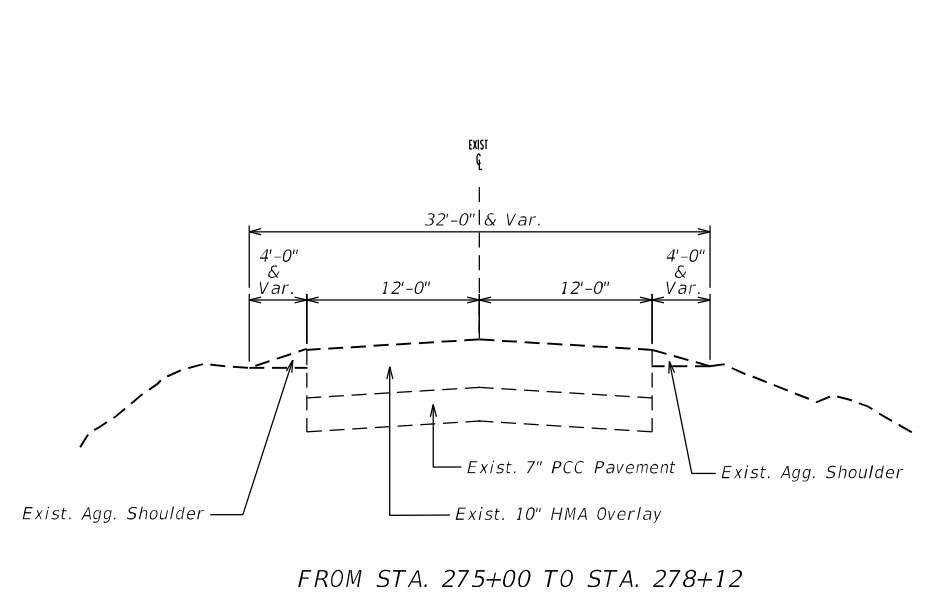
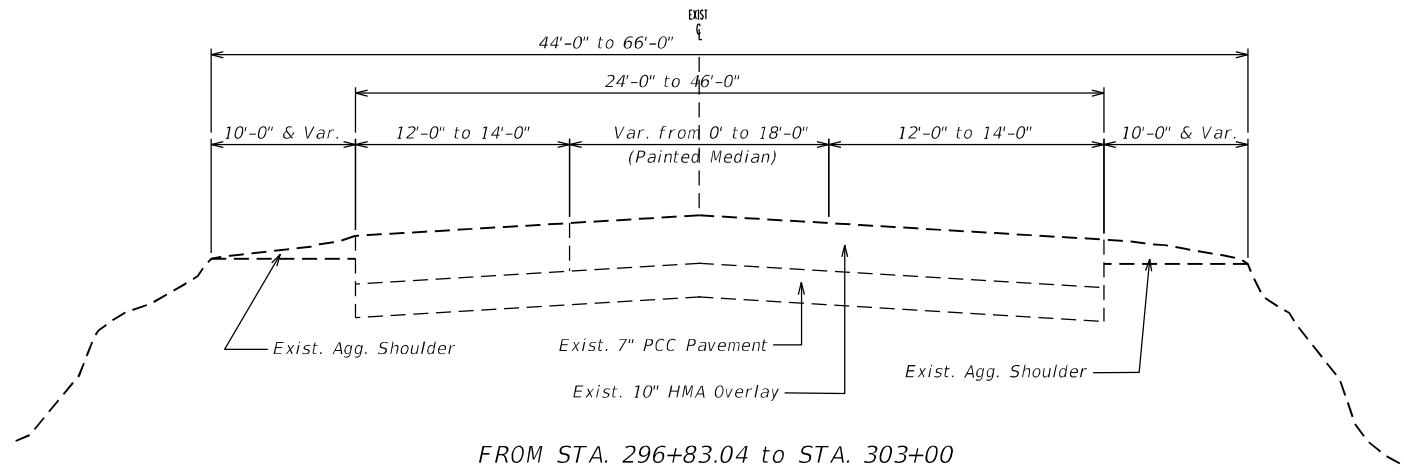
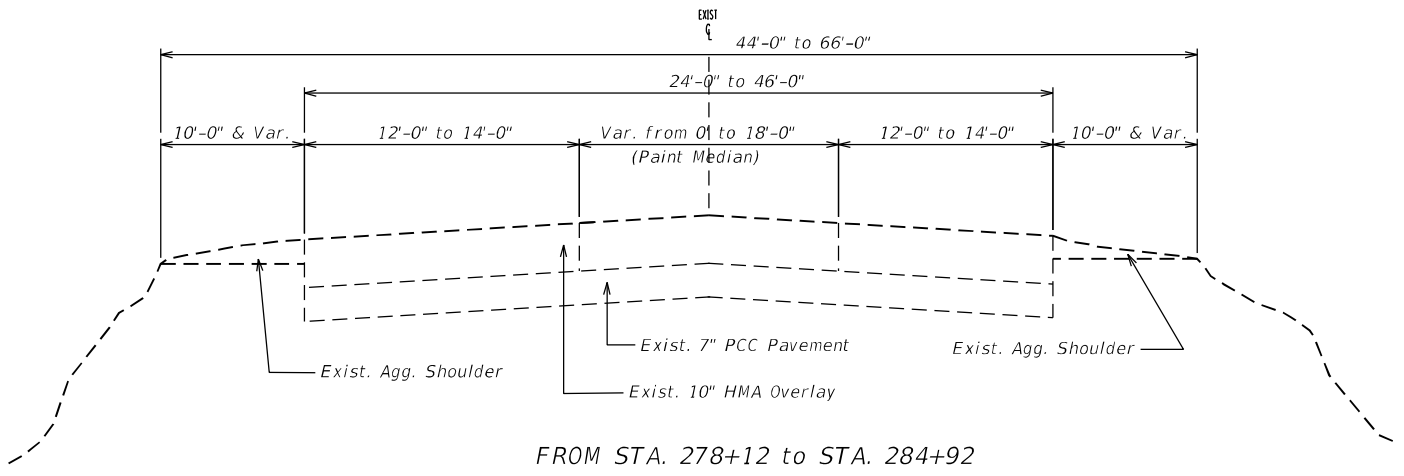
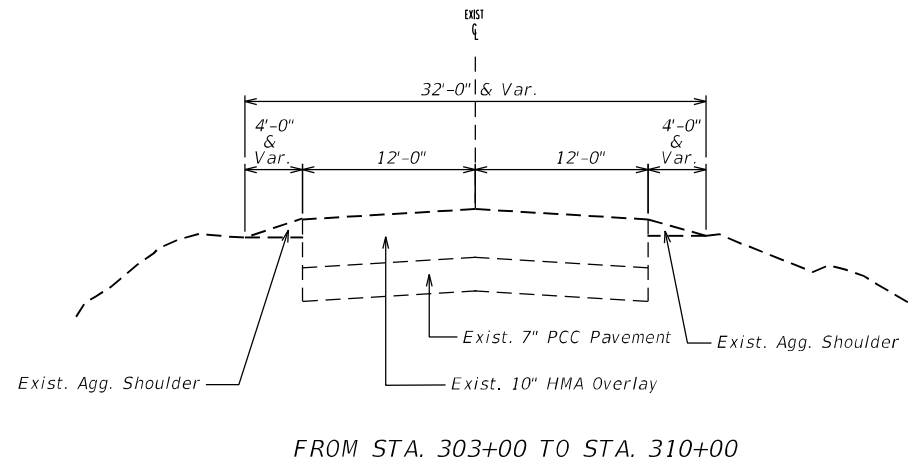
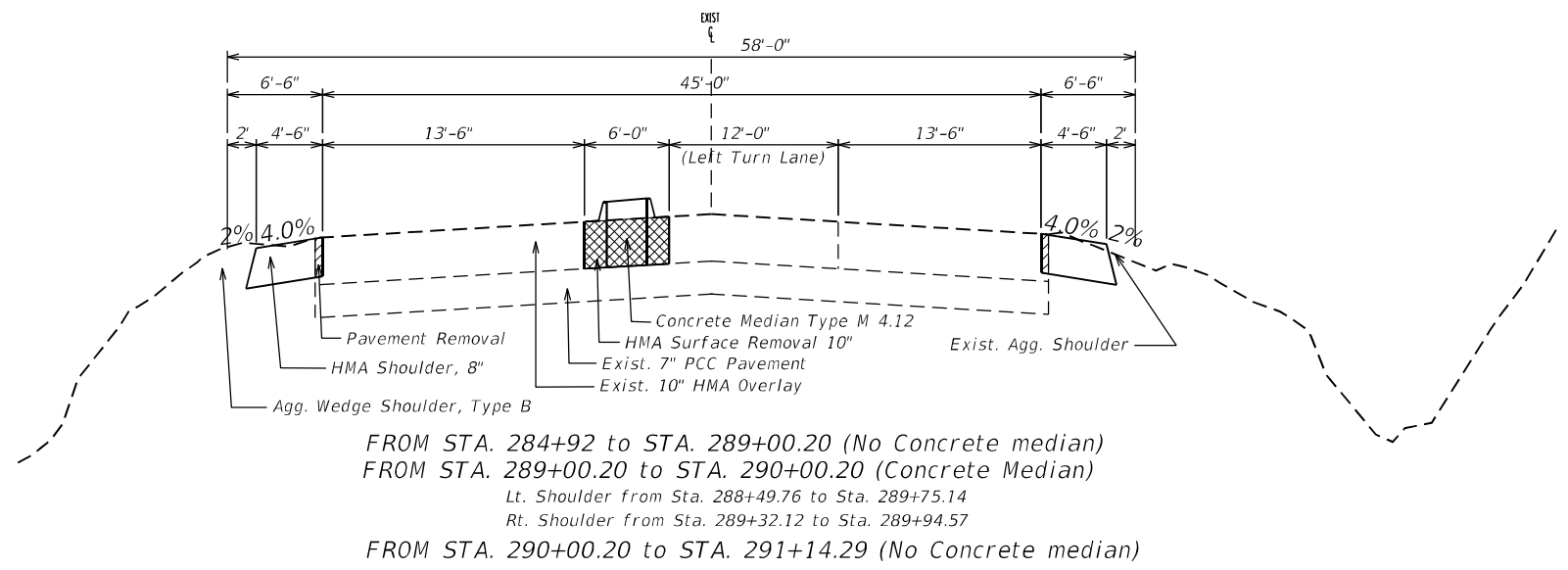
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTION IL 116**  
**IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N.L	FULTON	37	12
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

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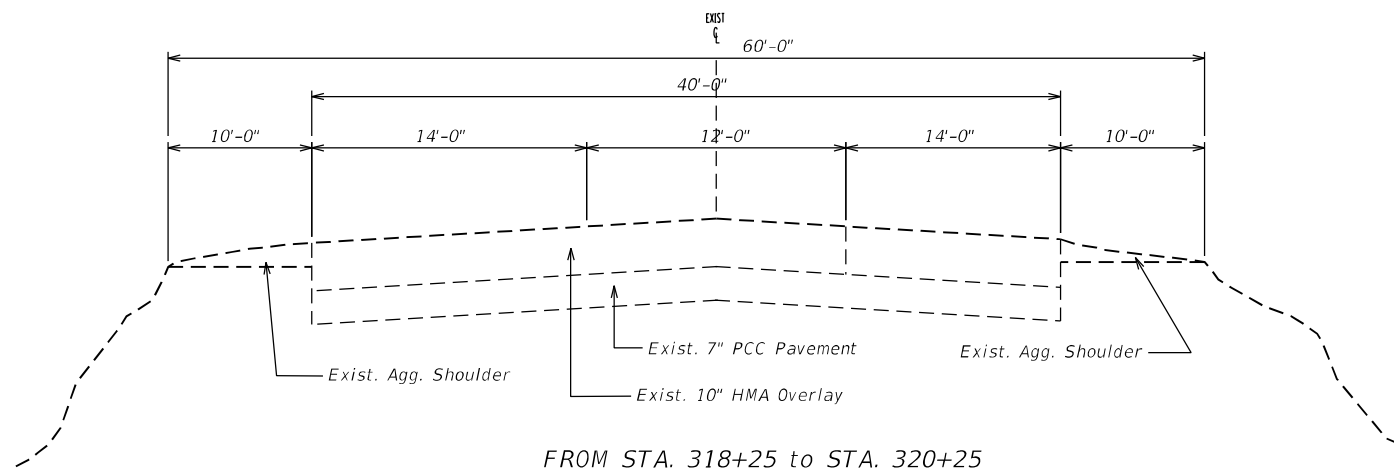
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

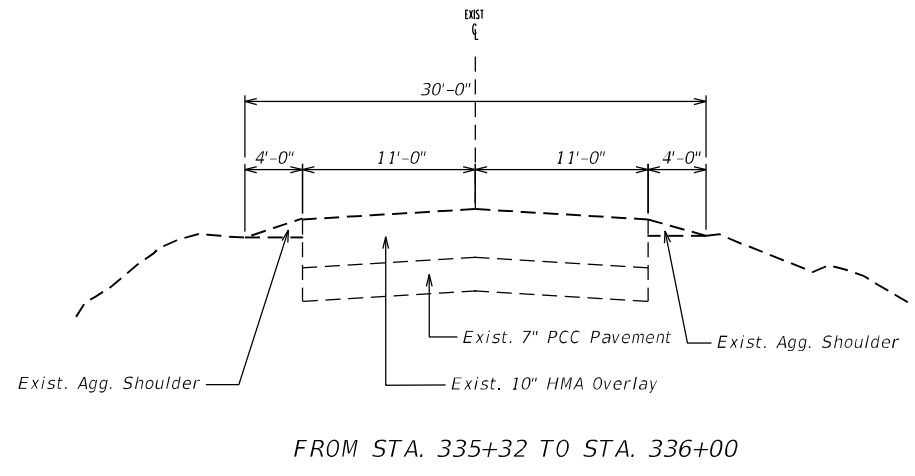
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SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68662				
ILLINOIS FED. AID PROJECT				

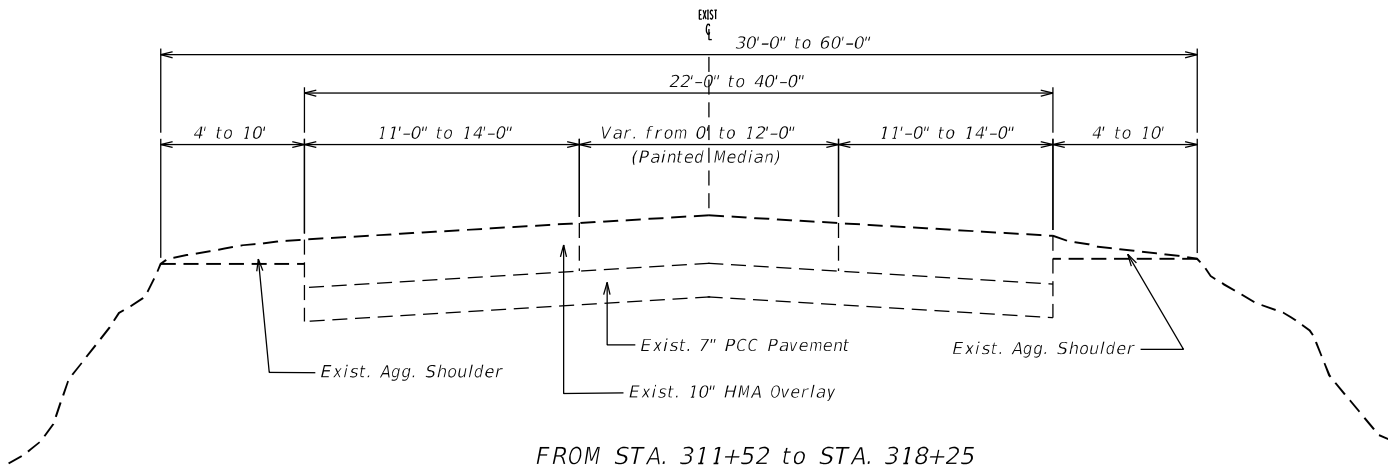
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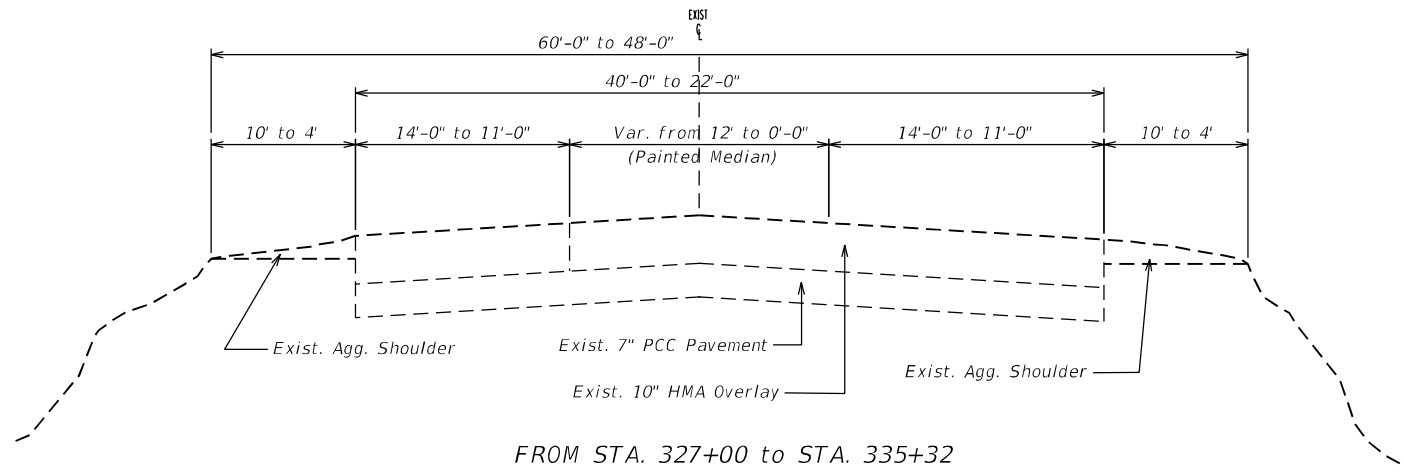
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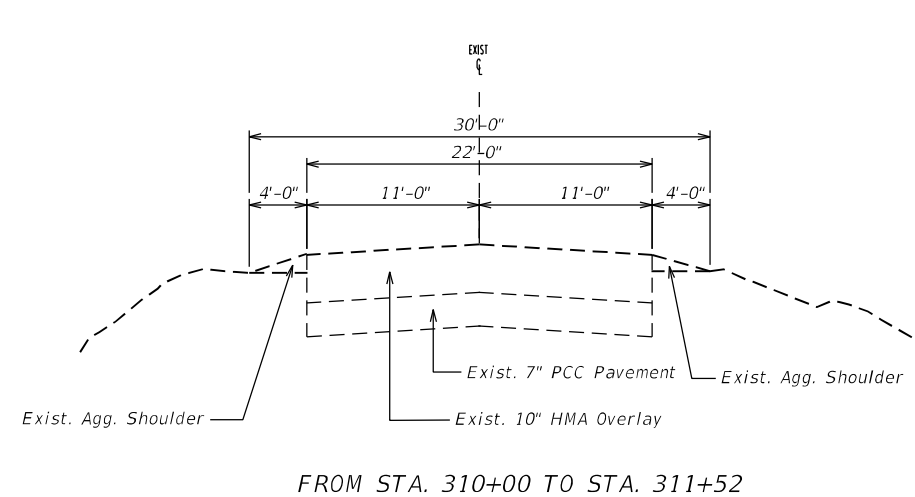
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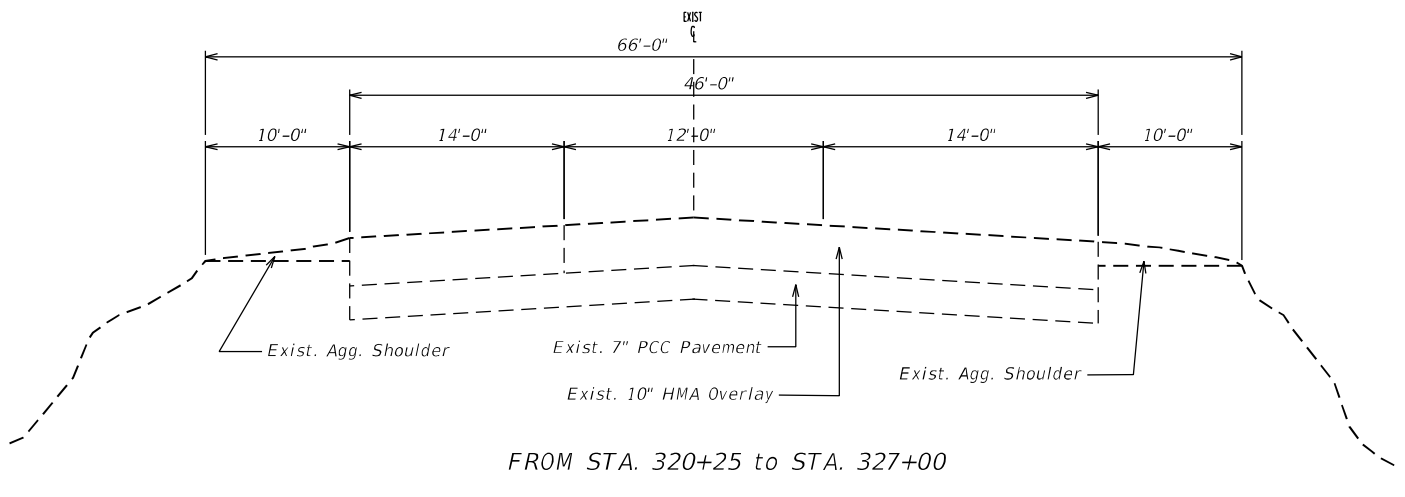
FROM STA. 311+52 to STA. 318+25



FROM STA. 327+00 to STA. 335+32



FROM STA. 310+00 TO STA. 311+52



FROM STA. 320+25 to STA. 327+00

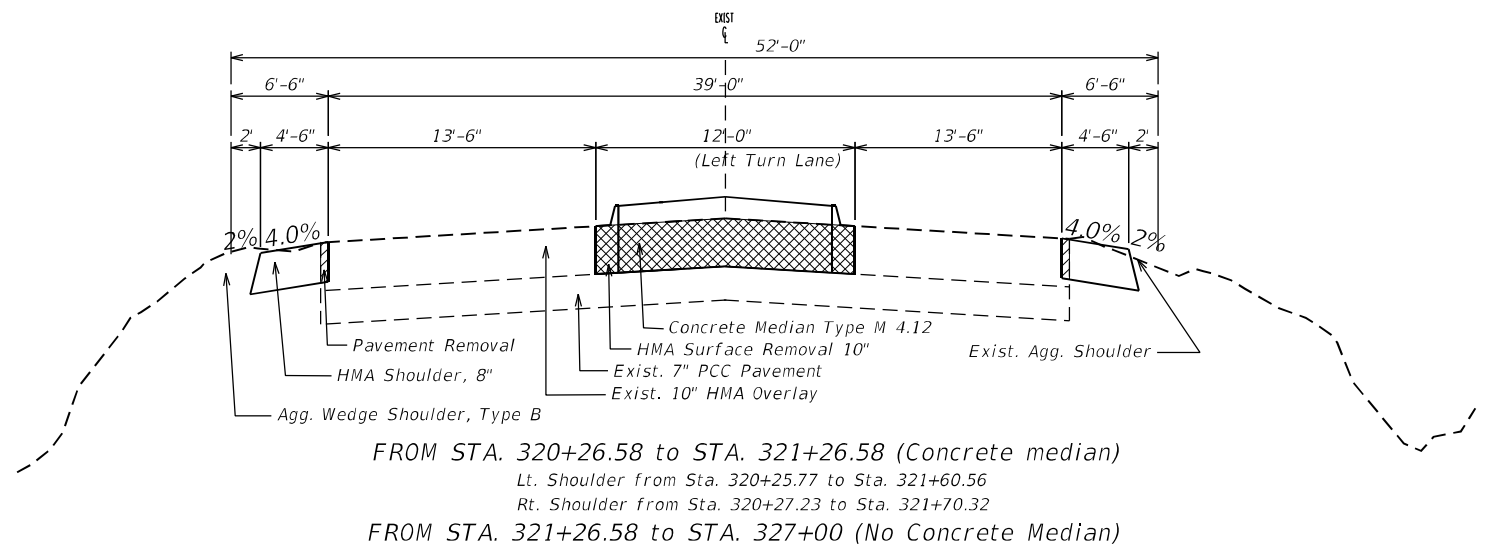
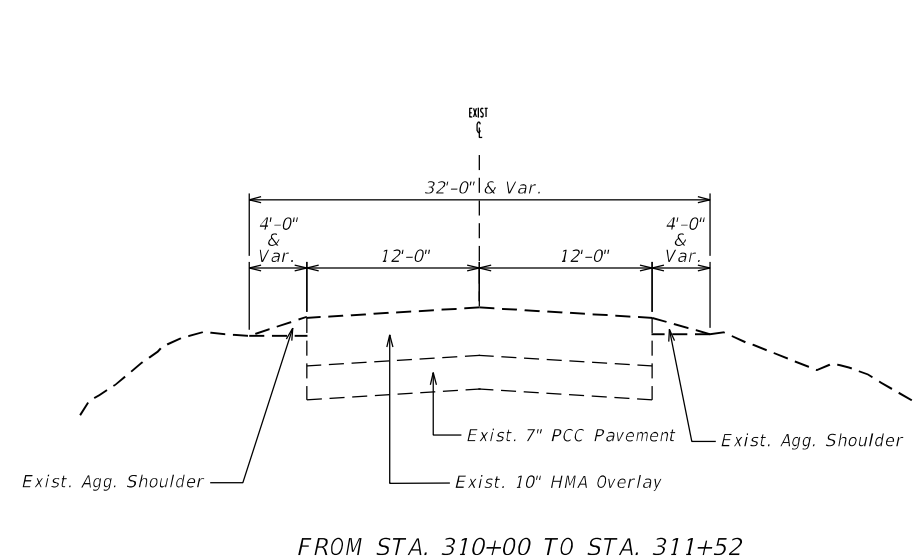
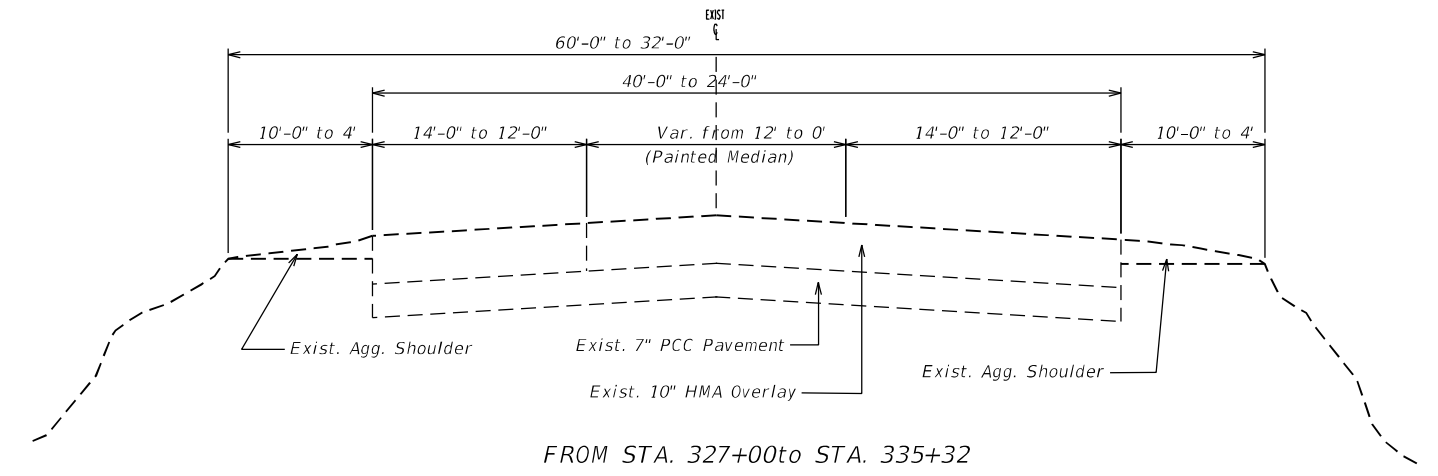
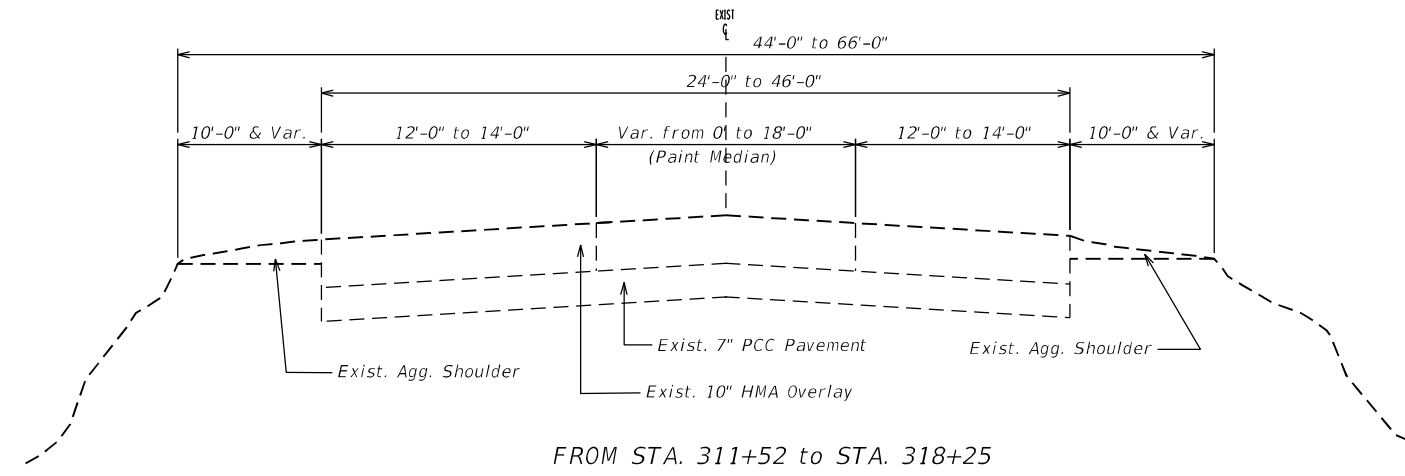
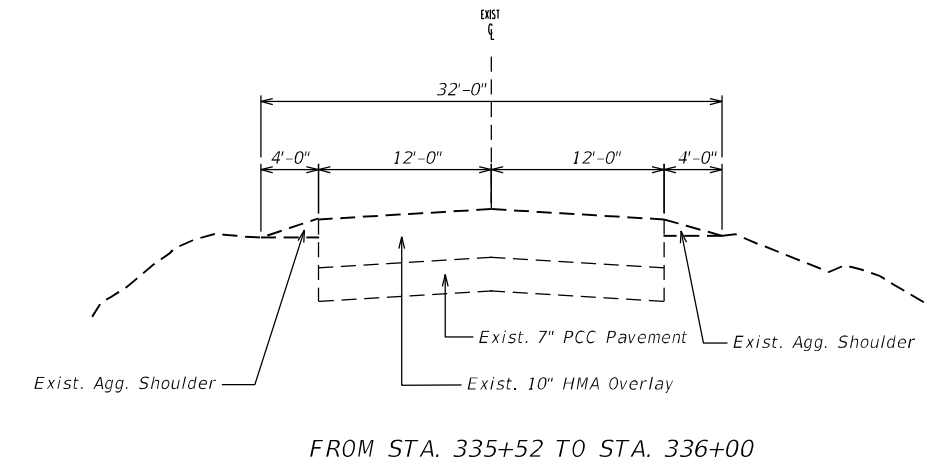
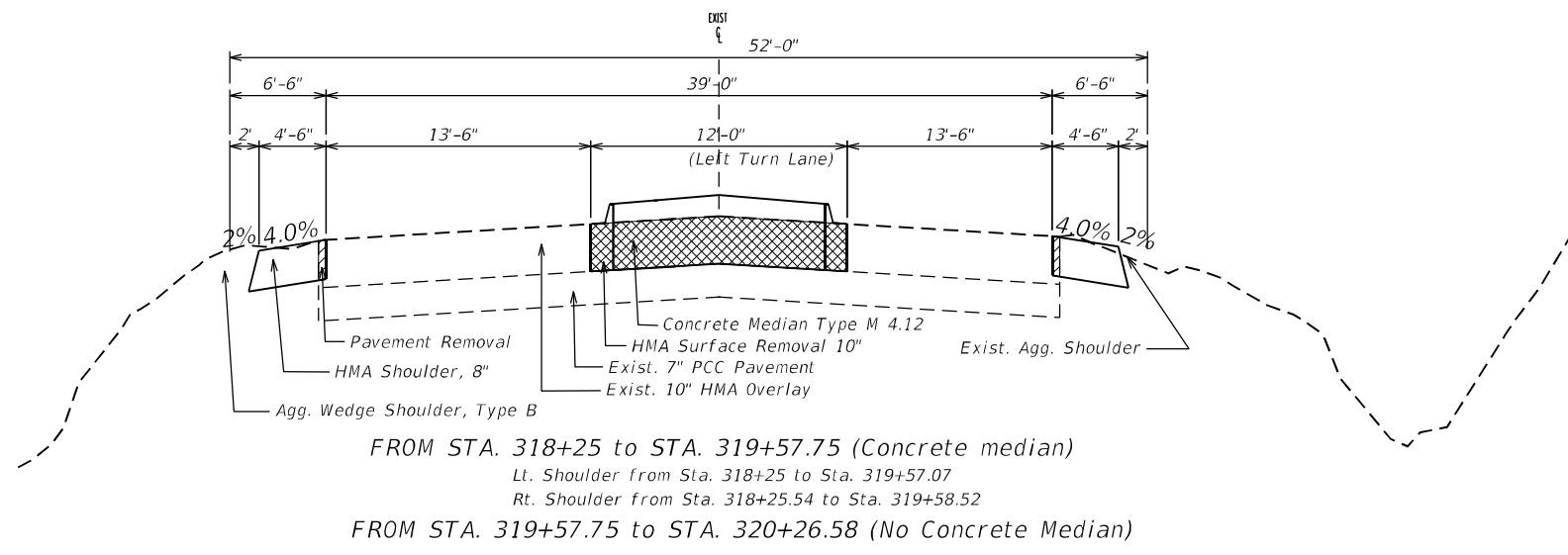
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXISTING TYPICAL SECTION IL 97    IL 116 &amp; IL 97 - FULTON COUNTY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N/L	FULTON	37	14
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

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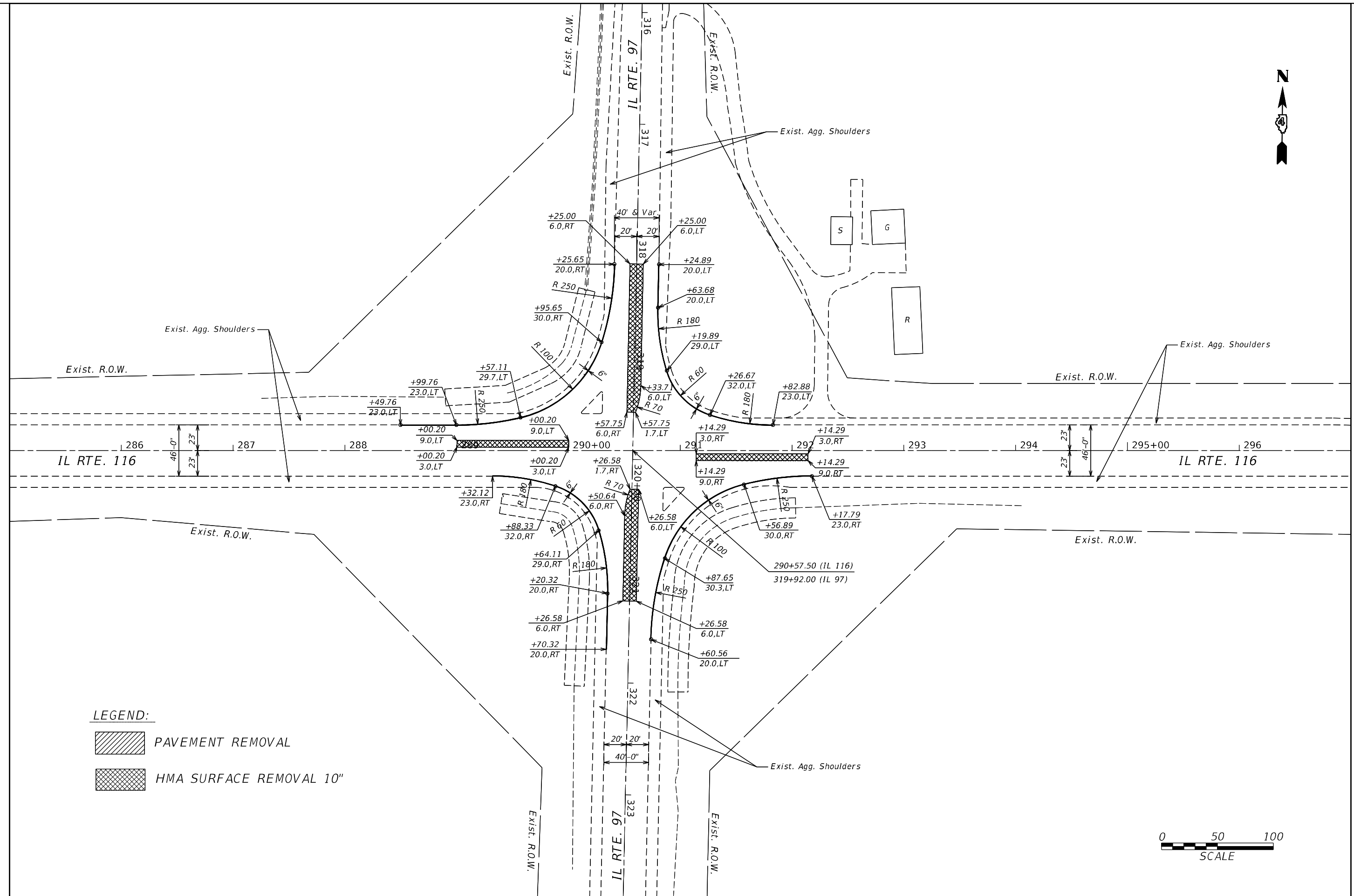


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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED TYPICAL SECTION IL 97</b> <b>IL 116 &amp; IL 97 - FULTON COUNTY</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N.L	FULTON	37	15
CONTRACT NO. 68G62				
ILLINOIS		FED. AID PROJECT		



**LEGEND:**

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL 10"



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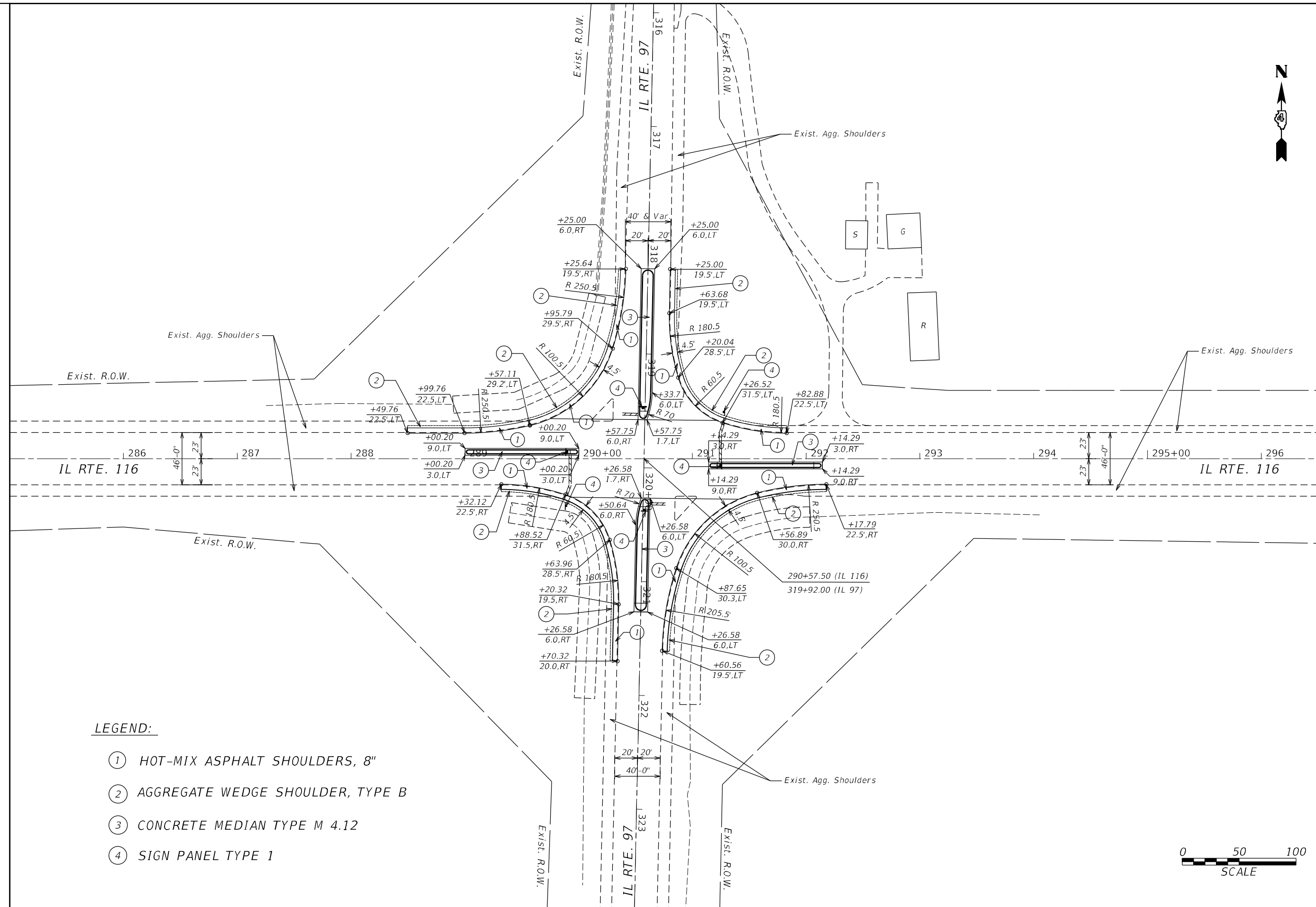
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLANS</b> <b>IL 116 &amp; IL 97 - FULTON COUNTY</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		665	(143,23)N,L	FULTON	37	16
SCALE:		SHEET OF SHEETS		STA. TO STA.		CONTRACT NO. 68G62

ILLINOIS		FED. AID PROJECT	
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**LEGEND:**

- ① HOT-MIX ASPHALT SHOULDERS, 8"
- ② AGGREGATE WEDGE SHOULDER, TYPE B
- ③ CONCRETE MEDIAN TYPE M 4.12
- ④ SIGN PANEL TYPE 1

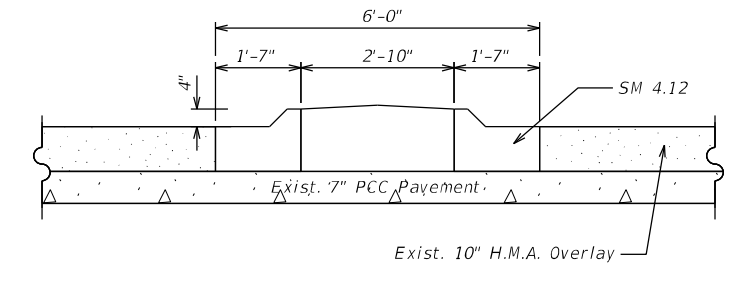
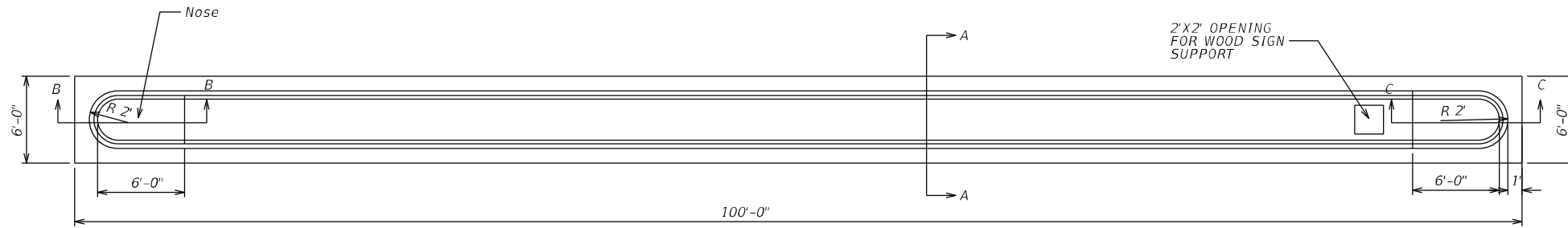
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

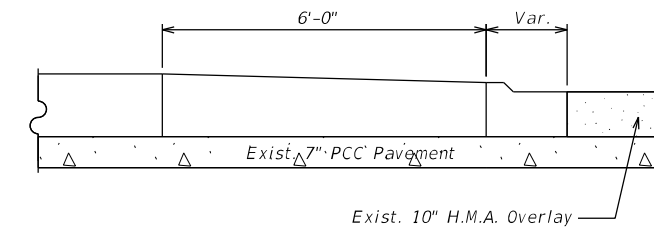
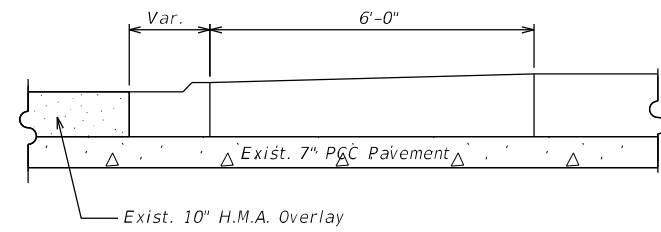
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<b>IL 116 &amp; IL 97 - FULTON COUNTY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N,L	FULTON	37	17
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				



NOTE:  
SOLID CONCRETE MEDIAN SHALL BE CONSTRUCTED IN ACCORDANCE TO DISTRICT CADD STD. 606301, INCLUDING THE FABRIC AND HIGHWAY STD. 606301.

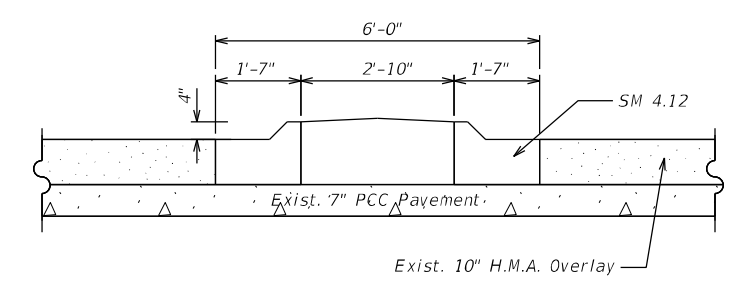
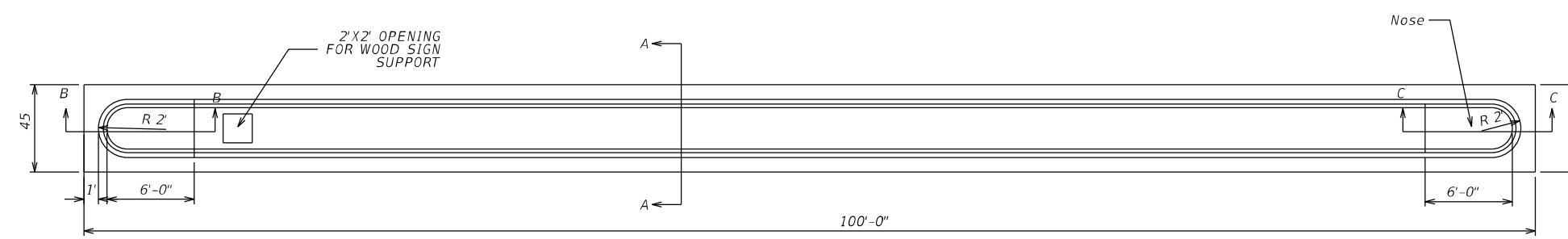
SECTION A-A



SECTION B-B

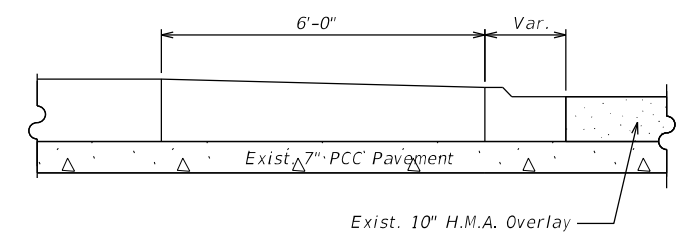
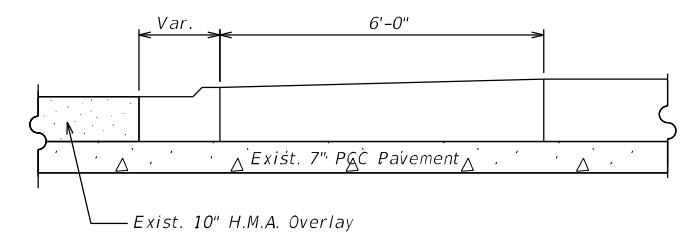
SECTION C-C

**CONCRETE MEDIAN TYPE SM 4.12**  
STA. 289+00.20 TO 290+00.20 (IL 116)



NOTE:  
SOLID CONCRETE MEDIAN SHALL BE CONSTRUCTED IN ACCORDANCE TO DISTRICT CADD STD. 606301, INCLUDING THE FABRIC AND HIGHWAY STD. 606301.

SECTION A-A



SECTION B-B

SECTION C-C

**CONCRETE MEDIAN TYPE SM 4.12**  
STA. 291+14.29 TO 292+14.29 (IL 116)

NOT TO SCALE

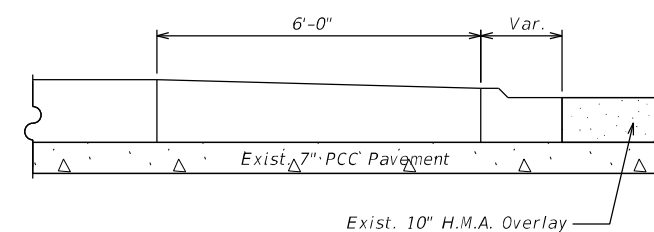
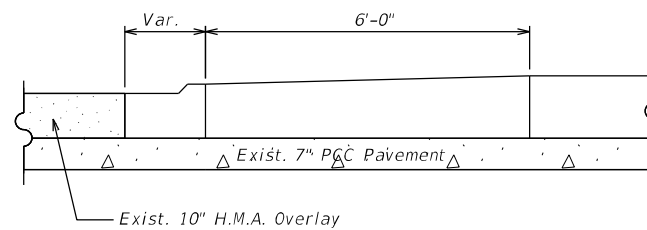
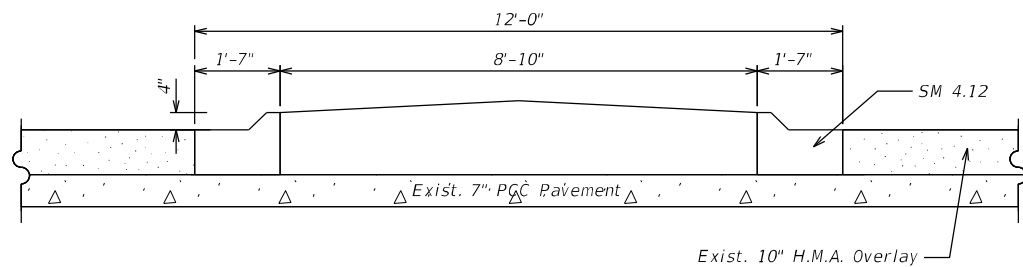
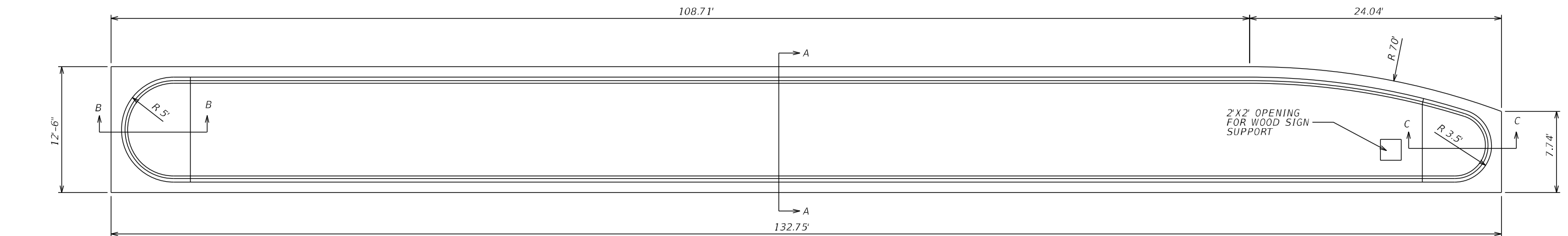
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PLOT SCALE = 80,0000 */ in.	DRAWN -	REVISED -
PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MEDIAN DETAIL</b>	
<b>IL 116 &amp; IL 97 - FULTON COUNTY</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N,L	FULTON	37	18
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				



NOTE:  
SOLID CONCRETE MEDIAN SHALL BE CONSTRUCTED IN ACCORDANCE TO DISTRICT CADD STD. 606301, INCLUDING THE FABRIC AND HIGHWAY STD. 606301.

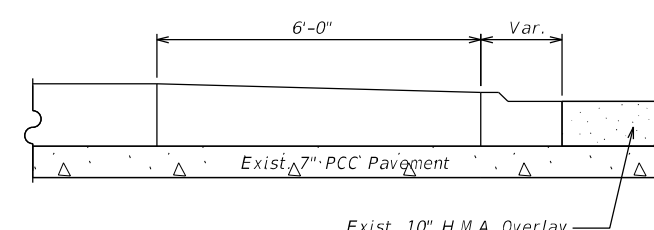
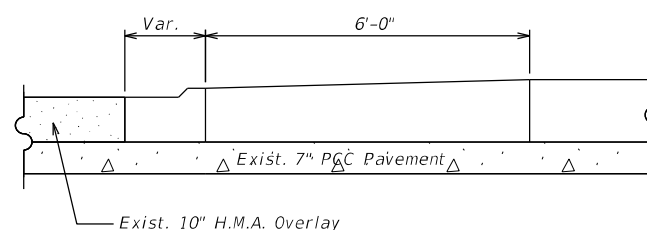
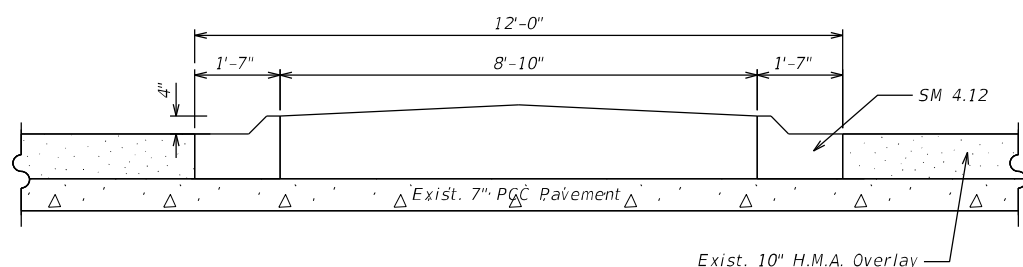
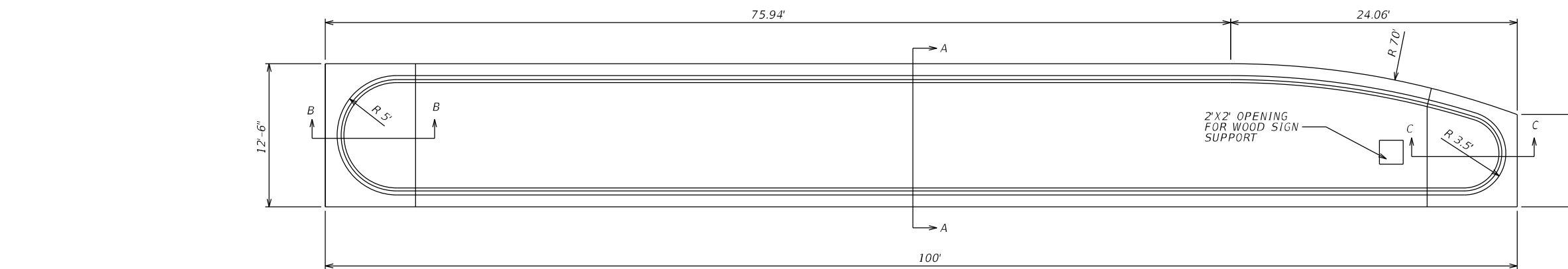
SECTION A-A

SECTION B-B

SECTION C-C

CONCRETE MEDIAN TYPE SM 4.12

STA. 318+25.00 TO 319+57.75 (IL 97)



NOTE:  
SOLID CONCRETE MEDIAN SHALL BE CONSTRUCTED IN ACCORDANCE TO DISTRICT CADD STD. 606301, INCLUDING THE FABRIC AND HIGHWAY STD. 606301.

SECTION A-A

SECTION B-B

SECTION C-C

CONCRETE MEDIAN TYPE SM 4.12

STA. 320+26.58 TO 321+26.58 (IL 97)

NOT TO SCALE

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PLOT DATE = 6/25/2021	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MEDIAN DETAIL  
IL 116 & IL 97 - FULTON COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143.23)N/L	FULTON	37	19
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION NOTES (ELECTRICAL WORK)

1. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE GENERAL CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
3. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
4. THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POSTS, MAST ARM AND LIGHT POLE FOUNDATIONS, AND SIGN POSTS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
5. ALL HIGHWAY LIGHTING STRUCTURES SHALL BE BONDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED LIGHT POLES AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER ITEMS REQUIRED TO BOND THE STRUCTURES.)
6. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
7. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 817.04.
8. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
9. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
10. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LIGHTING SYSTEM COMPONENTS (LIGHT POLES, LUMINAIRES, LIGHTING CONTROLLER, WIRING, ETC.) AS SHOWN IN THE PLANS. THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "REMOVE EXISTING LIGHTING SYSTEM." THE CONTRACTOR SHALL INCLUDE THE SALVAGE PRICE OF THESE ITEMS IN THE BID PRICE.
11. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSEHOLDERS, FUSES, SURGE ARRESTORS, AND LUMINAIRE WIRING INSIDE THE POLE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED LUMINAIRES.
12. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL STAGE THE PROJECT IN A MANNER THAT PREVENTS THE LIGHTING SYSTEM FROM BEING NONOPERATIONAL OVERNIGHT.
13. ALL SIGNAL HEADS SHALL HAVE 12" LENSES AND VISORS.
14. THE FLASHING BEACON INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS.
15. THE COST OF THE PROPOSED 1.0 FT LUMINAIRE ARM SHALL BE INCLUDED IN THE COST OF THE LUMINAIRE MOUNTING BRACKET - SPECIAL.
16. ONE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED IN EACH DIRECTION ON IL ROUTE 116 A MINIMUM OF 14 DAYS PRIOR TO INSTALLATION OF STOP SIGNS ON IL ROUTE 116 AND WILL REMAIN IN PLACE 14 DAYS FOLLOWING THE INSTALLATION OF THE STOP SIGNS.
17. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNIT-DUCT AND CONDUIT PAY ITEMS.
18. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING UNIT-DUCT OR CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
19. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE UNIT-DUCT AND CONDUIT.
20. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
21. THE COST OF THE CONDUIT AND SERVICE CABLES, INCLUDING GROUNDING CABLE AND HARDWARE, FROM THE DISCONNECT TO THE LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRIC SERVICE.
22. THE CONTRACTOR SHALL REMOVE EXISTING CONCRETE LIGHT POLE FOUNDATIONS IN ACCORDANCE WITH ARTICLE 895.05 OF THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR "REMOVE EXISTING LIGHTING SYSTEM."
23. THE CONTRACTOR WILL BE ALLOWED TO INSTALL CONDUIT AND INDIVIDUAL CONDUCTORS IN PLACE OF UNIT DUCT AT NO ADDITIONAL COST TO THE DEPARTMENT.
24. ALL LED MODULES SHALL OPERATE AT 48VDC OR LESS TO REDUCE THE POTENTIAL FOR ELECTROCUTION AND INJURY IN THE EVENT OF A KNOCKDOWN.
25. SDR 13.5 HDPE COILABLE DUCT MAY BE USED IN PLACE OF SCHEDULE 40 PVC CONDUIT.
26. THE CONTRACTOR SHALL FURNISH AND INSTALL EITHER A METAL HELIX FOUNDATION OR CONCRETE FOUNDATION FOR THE PROPOSED LIGHTING CONTROLLER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP."

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PLOT DATE = 6/25/2021	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION NOTES (ELECTRICAL WORK)**  
**IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	20
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

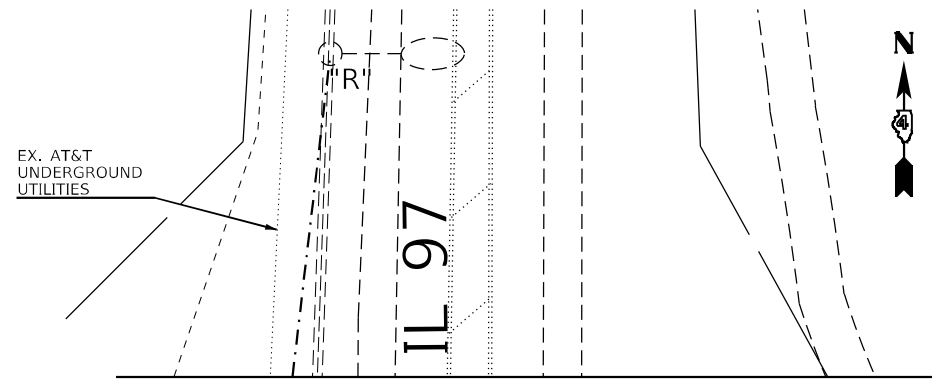
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LIGHT POLE SCHEDULE									
POLE NUMBER	ROUTE	STATION	OFFSET	POLE TYPE	MOUNTING HEIGHT (FT.)	ARM LENGTH (FT.)	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	LUMINAIRE MOUNTING BRACKET - SPECIAL QTY.	LUMINAIRE
1/2	IL 116	291+23.2	90.7	GALVANIZED STEEL, TENON MOUNT-TWIN	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 2.0)
3	IL 97	322+91.1	-49.1	GALVANIZED STEEL, TENON MOUNT	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 1.0)
4	IL 116	287+33.8	45.2	GALVANIZED STEEL, TENON MOUNT	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 1.0)
5	IL 116	284+16.6	50.4	GALVANIZED STEEL, TENON MOUNT	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 1.0)
6/7	IL 116	289+84.4	-85.7	GALVANIZED STEEL, TENON MOUNT-TWIN	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 2.0)
8	IL 97	316+68.6	37.2	GALVANIZED STEEL, TENON MOUNT	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 1.0)
9	IL 116	293+67.8	-53.9	GALVANIZED STEEL, TENON MOUNT	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 1.0)
10	IL 116	295+60.0	-47.9	GALVANIZED STEEL, TENON MOUNT	45.0	1.0	INSTALL ON PROP. COUPLINGS ON PROP. METAL FOUNDATION (WITHIN 5.0 FT. OF EXISTING POLE LOCATION)	1.0	LUMINIARE, LED, ROADWAY, OUTPUT DESIGNATION H (QTY. 1.0)

FLASHING BEACON SCHEDULE					
NAME	ROUTE	LOCATION	LED COLOR (QTY.)	SIGNAL HEAD DESCRIPTION	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE DESCRIPTION (QTY.)
FL-1/2	EB IL 116	WEST OF INTERSECTION	YELLOW (QTY. 2.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, YELLOW REFLECTIVE TAPE (QTY. 2.0)
FL-3/6/10/13	IL 116 & IL 97	MAST ARM	RED (QTY. 4.0)	SH P LED 1F 4S MAM	BLACK BACKPLATE, YELLOW REFLECTIVE TAPE (QTY. 4.0)
FL-4	EB IL 116	RIGHT TURN RADIUS	RED (QTY. 1.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, NO REFLECTIVE TAPE (QTY. 1.0)
FL-5	EB IL 116	CENTER MEDIAN	RED (QTY. 1.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, NO REFLECTIVE TAPE (QTY. 1.0)
FL-7	SB IL 97	RIGHT TURN ISLAND	RED (QTY. 1.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, NO REFLECTIVE TAPE (QTY. 1.0)
FL-8/9	WB IL 116	EAST OF INTERSECTION	YELLOW (QTY. 2.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, YELLOW REFLECTIVE TAPE (QTY. 2.0)
FL-11	WB IL 116	RIGHT TURN RADIUS	RED (QTY. 1.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, NO REFLECTIVE TAPE (QTY. 1.0)
FL-12	WB IL 116	CENTER MEDIAN	RED (QTY. 1.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, NO REFLECTIVE TAPE (QTY. 1.0)
FL-14	NB IL 97	RIGHT TURN ISLAND	RED (QTY. 1.0)	SH P LED 1F 1S BM	BLACK BACKPLATE, NO REFLECTIVE TAPE (QTY. 1.0)

SIGN SCHEDULE						
SIGN TYPE	ROUTE	LOCATION	SIGN DESCRIPTION	POLE TYPE	FLASHING BEACON	
A	EB IL 116	WEST OF INTERSECTION	STOP AHEAD (W3-1) 36" X 36"	TS POST GALVANIZED STEEL, 18 FT.	YELLOW X 2	
B	EB IL 116	RIGHT TURN RADIUS	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	TS POST GALVANIZED STEEL, 16 FT.	RED X 1	
B	EB IL 116	CENTER MEDIAN	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	TS POST GALVANIZED STEEL, 16 FT.	RED X 1	
A	WB IL 116	EAST OF INTERSECTION	STOP AHEAD (W3-1) 36" X 36"	TS POST GALVANIZED STEEL, 18 FT.	YELLOW X 2	
B	WB IL 116	RIGHT TURN RADIUS	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	TS POST GALVANIZED STEEL, 16 FT.	RED X 1	
B	WB IL 116	CENTER MEDIAN	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	TS POST GALVANIZED STEEL, 16 FT.	RED X 1	
B	NB IL 97	RIGHT TURN ISLAND	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	TS POST GALVANIZED STEEL, 16 FT.	RED X 1	
C	NB IL 97	CENTER MEDIAN	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	WOOD SIGN SUPPORT, 8 FT.	-	
B	SB IL 97	RIGHT TURN ISLAND	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	TS POST GALVANIZED STEEL, 16 FT.	RED X 1	
C	SB IL 97	CENTER MEDIAN	STOP SIGN (R1-1) 36" X 36", ALL WAY (R1-3P) 18" X 6"	WOOD SIGN SUPPORT, 8 FT.	-	

USER NAME = hansonj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHT POLE, FLASHING BEACON, &amp; SIGN SCHEDULE IL 116 &amp; IL 97 - FULTON COUNTY</b>	F.A.P. RTE. 665	SECTION (143,23)N.L	COUNTY FULTON	TOTAL SHEETS 37	SHEET NO. 21		
PLOT SCALE = 50,3767' / in.	CHECKED -	REVISED -			CONTRACT NO. 68G62						
PLOT DATE = 6/25/2021	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
ILLINOIS FED. AID PROJECT											



MATCHLINE A-A

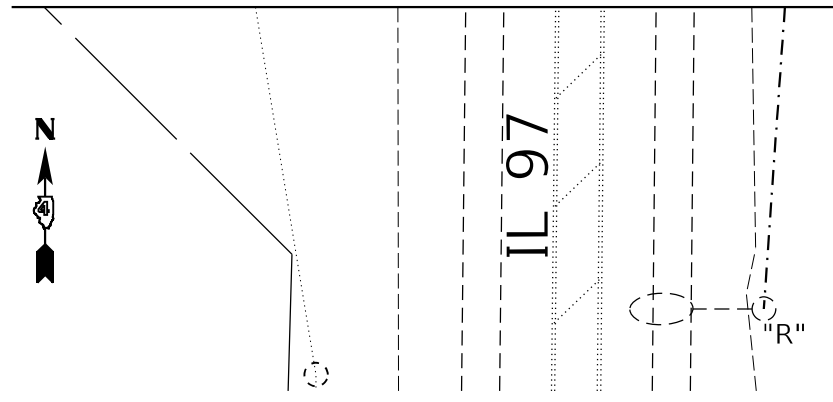
BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0

REMOVE EXISTING LIGHTING SYSTEM - QTY. 1.0 LUMP SUM (INCLUDES ALL ITEMS LISTED BELOW)	
THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF OF THE RIGHT-OF-WAY:	
QTY.	ITEM
1.0	LIGHTING CONTROLLER CABINET (PEDESTAL MOUNTED)
1.0	CONCRETE FOUNDATION (LIGHTING CONTROLLER)
8.0	LIGHT POLE
10.0	HPS LUMINAIRE
8.0	LIGHT POLE CONCRETE FOUNDATION (PARTIAL REMOVAL IN ACCORDANCE WITH ARTICLE 895.05)
ALL	ELECTRICAL CABLE IN CONDUIT
1.0	ELECTRICAL SERVICE
1.0	FLASHING BEACON CONTROLLER
4.0	FLASHING BEACON (INCLUDES SIGNAL HEAD AND CONDUIT)
6.0	SIGN AND SIGN POSTS

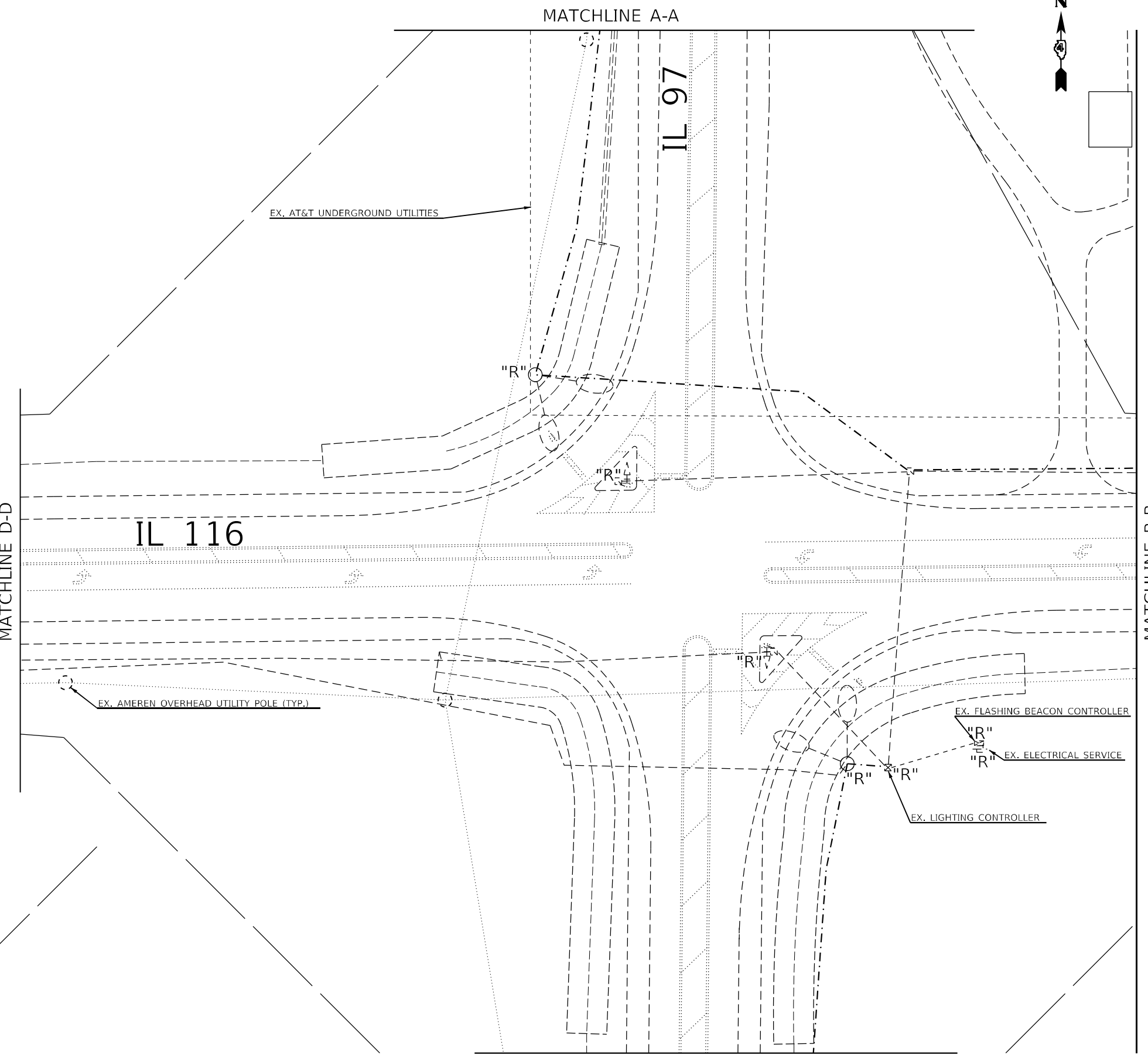
NOTES:  
1. REMOVAL ITEMS ARE LABELED "R."

LEGEND			
	EX. SIGN AND POST WITH FLASHING BEACON		EX. UNIT-DUCT
	EX. SIGN AND POST		EX. LIGHT POLE AND LUMINAIRE ON EX. FOUNDATION
	EX. ELECTRICAL SERVICE		EX. LIGHTING CONTROLLER
	EX. STOP BAR		EX. FLASHING BEACON CONTROLLER (INSTALLED ON WOOD SERVICE POLE)
	EX. AT&T UNDERGROUND CONDUIT		EX. OVERHEAD UTILITY POLE
	EX. OVERHEAD UTILITIES		

MATCHLINE C-C



MATCHLINE D-D



MATCHLINE C-C

MATCHLINE B-B

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

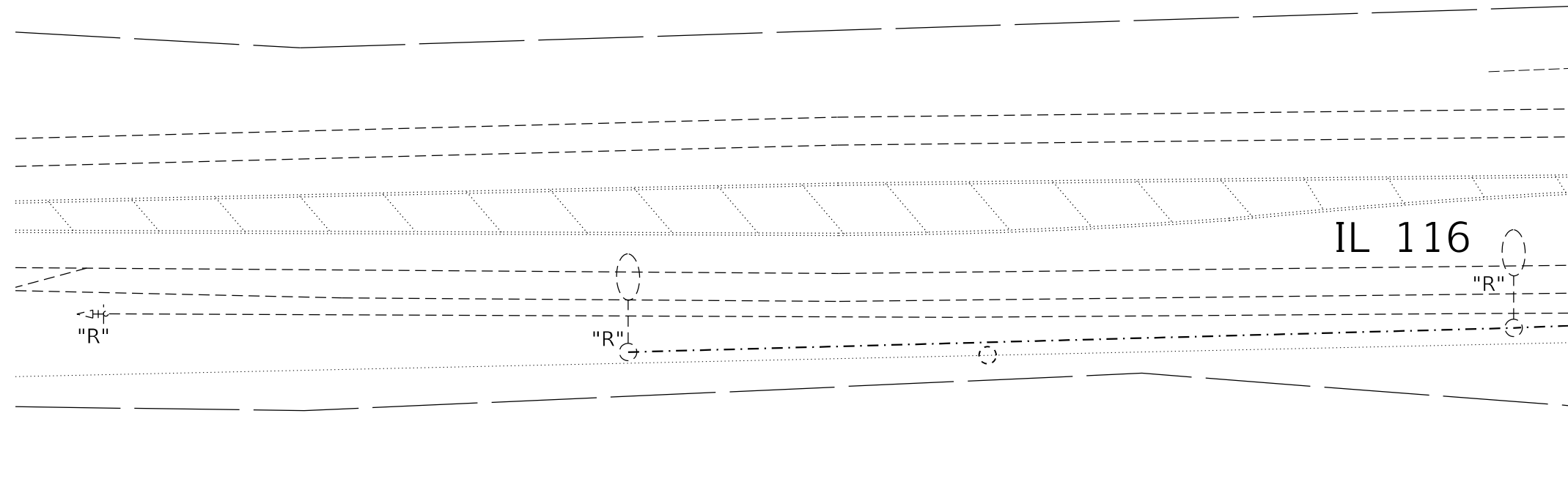
EXISTING FLASHING BEACON AND LIGHTING SYSTEM REMOVAL PLANS  
IL 116 & IL 97 - FULTON COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 665	SECTION (143,23)N.L	COUNTY FULTON	TOTAL SHEETS 37	SHEET NO. 22
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE

NOTES:  
1. REMOVAL ITEMS ARE LABELED "R."



MATCHLINE D-D

IL 116

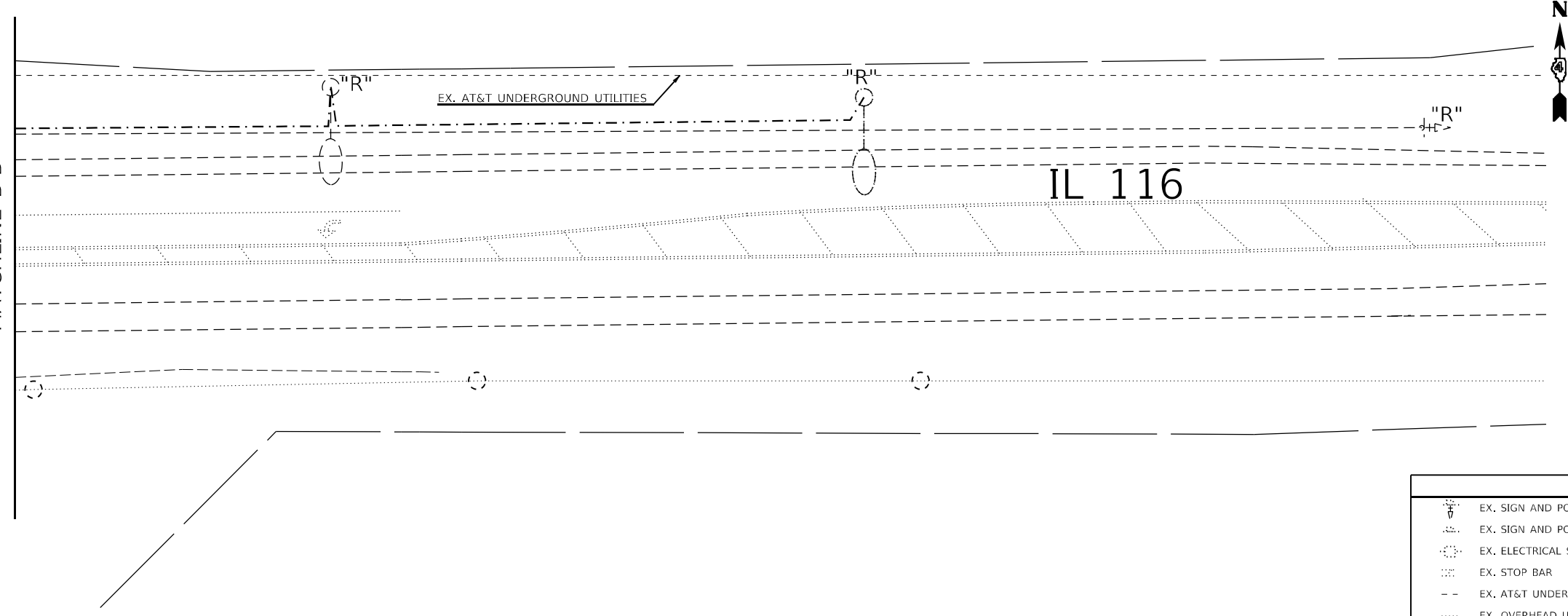
"R"

"R"

"R"

NOT TO SCALE

MATCHLINE B-B



EX. AT&T UNDERGROUND UTILITIES

IL 116

"R"

"R"

"R"

NOT TO SCALE

LEGEND	
	EX. SIGN AND POST WITH FLASHING BEACON
	EX. SIGN AND POST
	EX. ELECTRICAL SERVICE
	EX. STOP BAR
	EX. AT&T UNDERGROUND CONDUIT
	EX. OVERHEAD UTILITIES
	EX. UNIT-DUCT
	EX. LIGHT POLE AND LUMINAIRE ON EX. FOUNDATION
	EX. LIGHTING CONTROLLER
	EX. FLASHING BEACON CONTROLLER (INSTALLED ON WOOD SERVICE POLE)
	EX. OVERHEAD UTILITY POLE

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PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED FLASHING BEACON AND LIGHTING PLANS  
IL 116 & IL 97 - FULTON COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

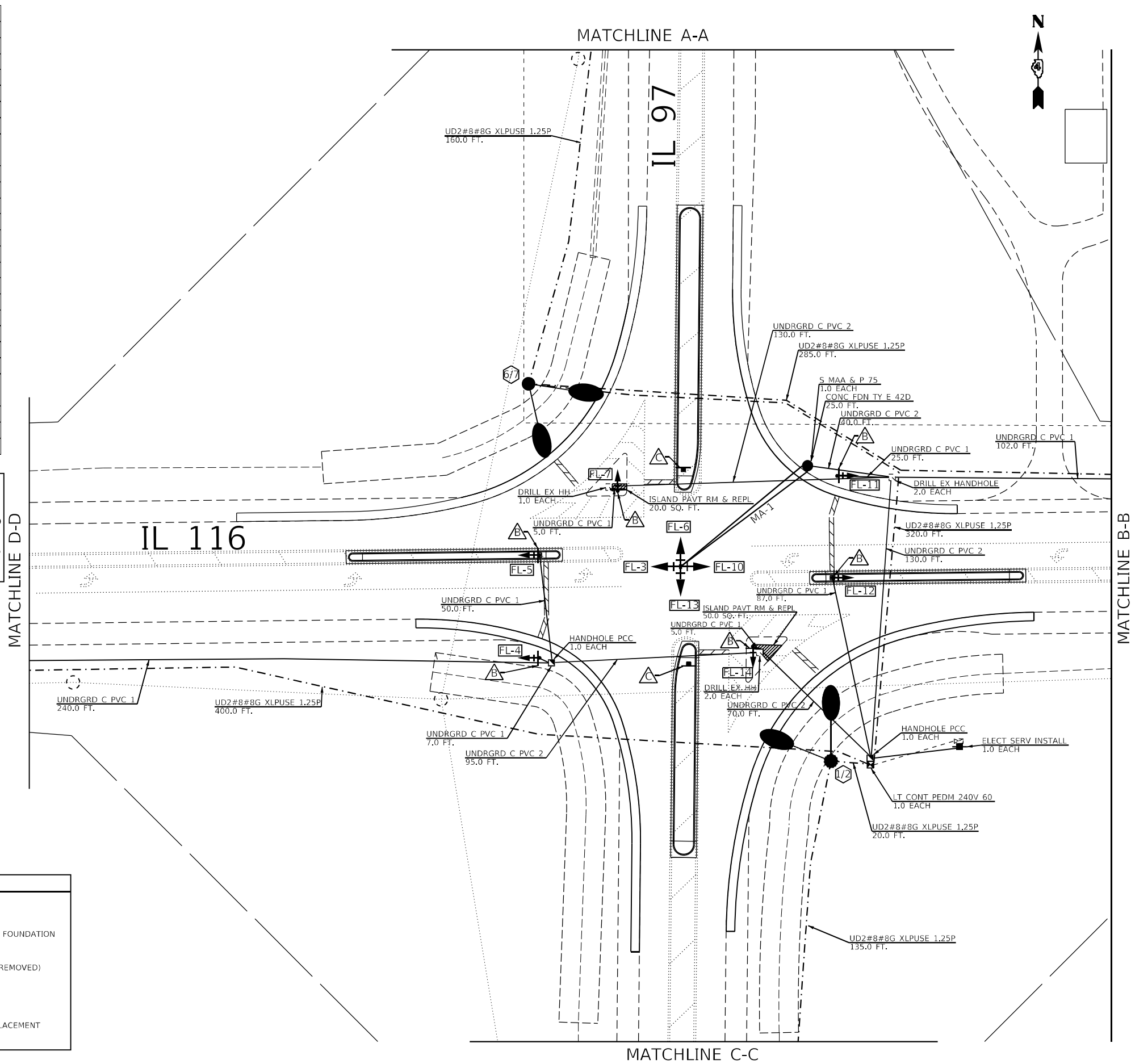
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	23
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS			
DESCRIPTION	UNIT	QTY.	
SIGN PANEL, TYPE 1	SQ FT	78.4	
WOOD SIGN SUPPORT	FOOT	32.0	
ELECTRIC SERVICE INSTALLATION	EACH	1.0	
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	521.0	
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	440.0	
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2.0	
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	1320.0	
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	4.0	
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0	
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT-TWIN	EACH	2.0	
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8' X 8'	EACH	2.0	
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	8.0	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1192.0	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	968.5	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6.0	
STEEL MAST ARM ASSEMBLY AND POLE, 75 FT.	EACH	1.0	
CONCRETE FOUNDATION, TYPE A	FOOT	18.0	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25.0	
DRILL EXISTING HANDHOLE	EACH	5.0	
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	6.0	
SIGNAL HEAD, POLYCARBONATE, LED, 4-FACE, 1-SECTION, MAST ARM MOUNTED	EACH	1.0	
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10.0	
ISLAND PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	70.0	
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	2.0	

- NOTES:
- THE CONTRACTOR SHALL INSTALL THE PROPOSED LIGHT POLES WITHIN 5 FT. OF THE EXISTING LOCATIONS.
  - ALL LED MODULES SHALL OPERATE AT 48VDC OR LESS TO REDUCE THE POTENTIAL FOR ELECTROCUTION AND INJURY IN THE EVENT OF A KNOCKDOWN.
  - THE PROPOSED MAST ARM SHALL BE INSTALLED AT A MINIMUM DISTANCE OF 5 FT. BEHIND THE PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC PRIOR TO LAYOUT OF THE PROPOSED MAST ARM CONCRETE FOUNDATION.
  - THE CONTRACTOR SHALL INSTALL A CONCRETE STAND PAD 36" (L) X 30" (W) X 4" (D) FOR THE PROPOSED LIGHTING CONTROLLER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER.

SIGN TYPE LEGEND			
<b>A</b>	<b>STOP AHEAD SIGN (WITH DUAL FLASHING BEACONS). INCLUDES THE FOLLOWING PAY ITEMS:</b>		
	SIGN PANEL, TYPE 1	QTY.	9.0 SQ. FT.
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	QTY.	1.0 EACH
	CONCRETE FOUNDATION, TYPE A	QTY.	3.0 FT.
	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	QTY.	2.0 EACH (YELLOW)
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	QTY.	2.0 EACH
<b>B</b>	<b>STOP SIGN (WITH FLASHING BEACON). INCLUDES THE FOLLOWING PAY ITEMS:</b>		
	SIGN PANEL, TYPE 1	QTY.	9.8 SQ. FT.
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	QTY.	1.0 EACH
	CONCRETE FOUNDATION, TYPE A	QTY.	3.0 FT.
	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	QTY.	1.0 EACH (RED)
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	QTY.	1.0 EACH
<b>C</b>	<b>STOP SIGN. INCLUDES THE FOLLOWING PAY ITEMS:</b>		
	SIGN PANEL, TYPE 1	QTY.	9.8 SQ. FT.
	WOOD SIGN SUPPORT	QTY.	16.0 FT.

LEGEND			
	PROP. SIGN AND TS POST WITH SINGLE FLASHING BEACON		PROP. PVC CONDUIT
	PROP. SIGN AND TS POST WITH DUAL FLASHING BEACONS		PROP. UNIT-DUCT
	PROP. SIGN AND WOOD POST		PROP. LIGHT POLE AND LUMINAIRE ON PROP. FOUNDATION
	PROP. ELECTRICAL SERVICE		PROP. LIGHTING CONTROLLER
	PROP. HANDHOLE PCC		EX. FLASHING BEACON CONTROLLER (TO BE REMOVED)
	PROP. 4-FACE, 1-SECTION MAST ARM MOUNTED SIGNAL HEAD		EX. OVERHEAD UTILITY POLE
	PROP. STEEL MAST ARM ASSEMBLY		PROP. LIGHT POLE NUMBER
	PROP. STOP BAR		PROP. ISLAND PAVEMENT REMOVAL AND REPLACEMENT
	EX. AT&T UNDERGROUND CONDUIT		EX. OVERHEAD UTILITIES



MODEL: Default  
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USER NAME = hansonj	DESIGNED -	REVISED -
PLOT SCALE = 50,3767' / in.	DRAWN -	REVISED -
PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

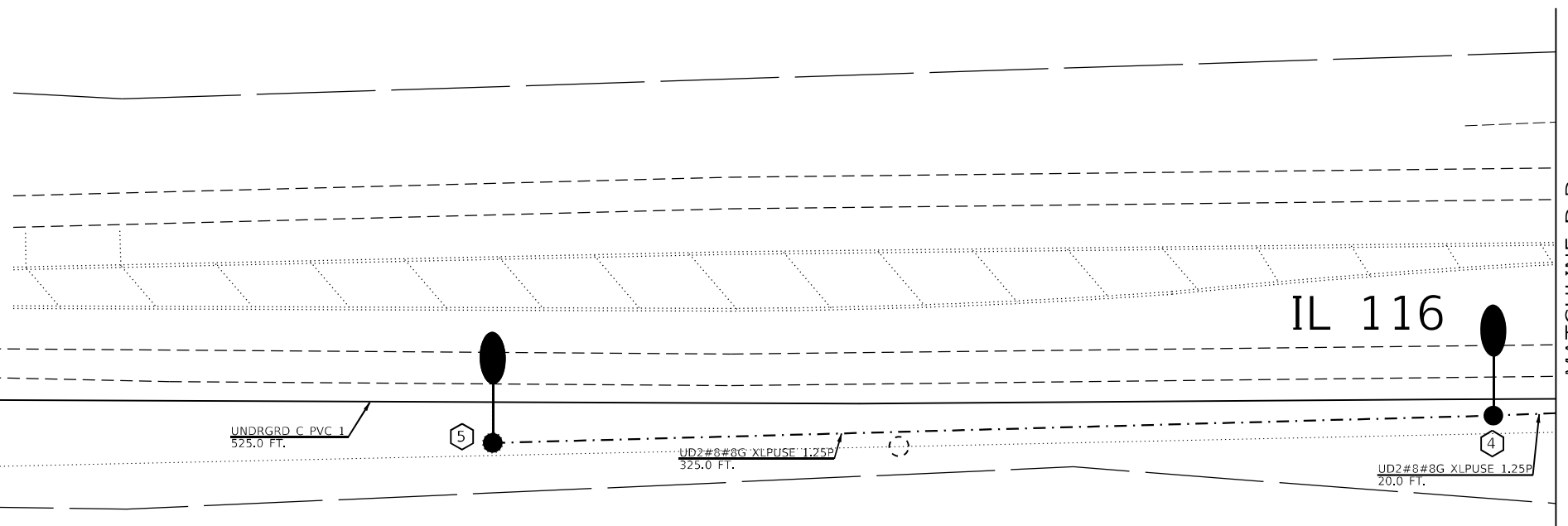
<b>PROPOSED FLASHING BEACON AND LIGHTING PLANS</b> <b>IL 116 &amp; IL 97 - FULTON COUNTY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	24
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE

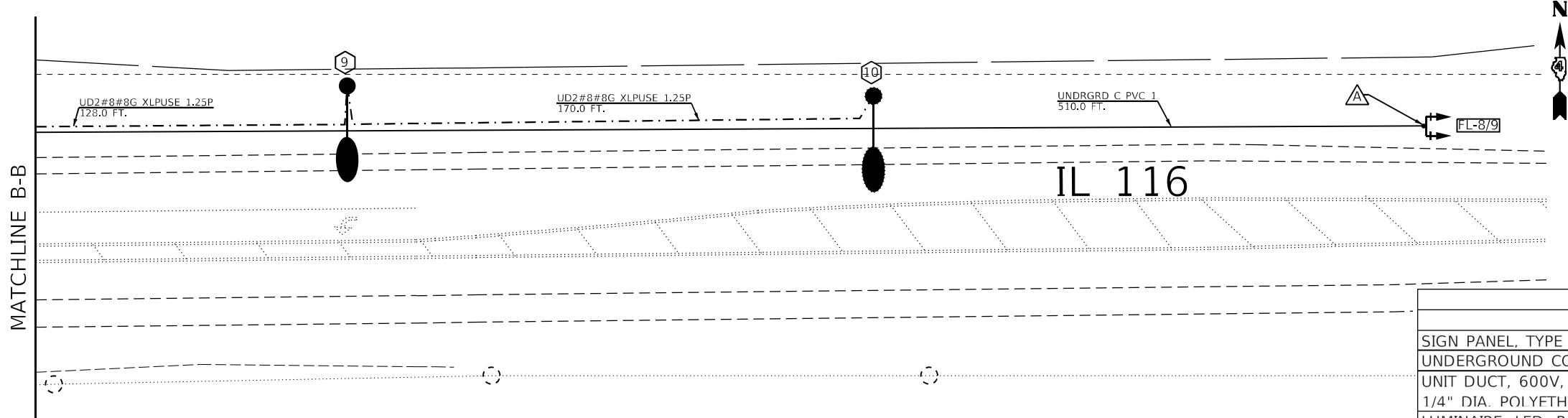


BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
SIGN PANEL, TYPE 1	SQ FT	9.0
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	525.0
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	345.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	2.0
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 8'	EACH	2.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	8.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	541.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	3.0
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	2.0
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	2.0



NOTES:  
 1. THE CONTRACTOR SHALL INSTALL THE PROPOSED LIGHT POLES WITHIN 5 FT. OF THE EXISTING LOCATIONS.  
 2. ALL LED MODULES SHALL OPERATE AT 48VDC OR LESS TO REDUCE THE POTENTIAL FOR ELECTROCUTION AND INJURY IN THE EVEN OF A KNOCKDOWN.

NOT TO SCALE



MATCHLINE B-B

LEGEND	
	PROP. SIGN AND TS POST WITH SINGLE FLASHING BEACON
	PROP. SIGN AND TS POST WITH DUAL FLASHING BEACONS
	PROP. SIGN AND WOOD POST
	PROP. ELECTRICAL SERVICE
	PROP. HANDHOLE PCC
	PROP. 4-FACE, 1-SECTION MAST ARM MOUNTED SIGNAL HEAD
	PROP. STEEL MAST ARM ASSEMBLY
	PROP. STOP BAR
	EX. AT&T UNDERGROUND CONDUIT
	PROP. PVC CONDUIT
	PROP. UNIT-DUCT
	PROP. LIGHT POLE AND LUMINAIRE ON PROP. FOUNDATION
	PROP. LIGHTING CONTROLLER
	EX. FLASHING BEACON CONTROLLER (TO BE REMOVED)
	EX. OVERHEAD UTILITY POLE
	PROP. LIGHT POLE NUMBER
	PROP. ISLAND PAVEMENT REMOVAL AND REPLACEMENT
	EX. OVERHEAD UTILITIES

BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
SIGN PANEL, TYPE 1	SQ FT	9.0
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	510.0
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	298.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	2.0
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 8'	EACH	2.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	8.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	526.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	3.0
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	2.0
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	2.0

NOT TO SCALE

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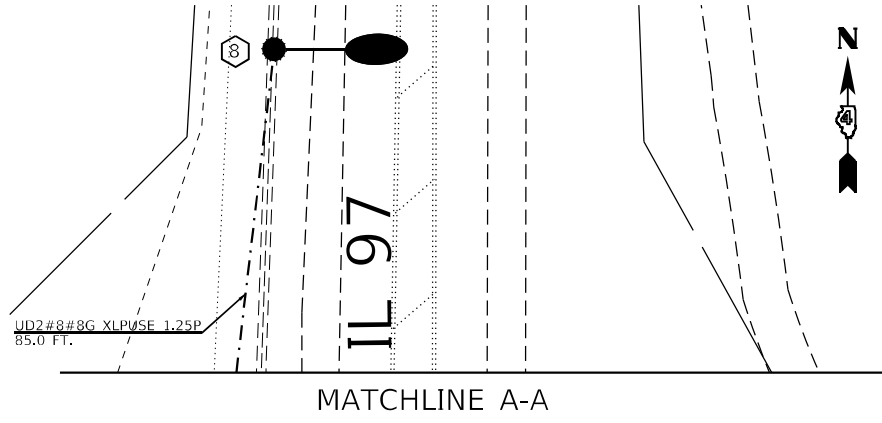
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PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED FLASHING BEACON AND LIGHTING PLANS - CONTINUED  
 IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

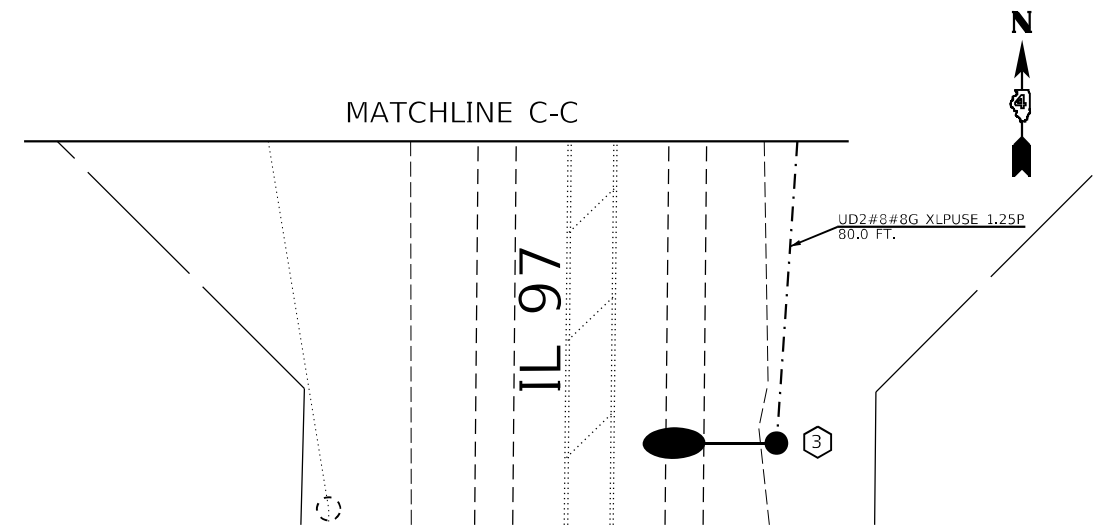
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	25
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	85.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	1.0
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 8'	EACH	1.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	4.0
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	1.0

NOTES:  
 1. THE CONTRACTOR SHALL INSTALL THE PROPOSED LIGHT POLES WITHIN 5 FT. OF THE EXISTING LOCATIONS.  
 2. ALL LED MODULES SHALL OPERATE AT 48VDC OR LESS TO REDUCE THE POTENTIAL FOR ELECTROCUTION AND INJURY IN THE EVEN OF A KNOCKDOWN.

NOT TO SCALE



BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	EACH	80.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	1.0
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 8'	EACH	1.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	4.0
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	1.0

LEGEND	
	PROP. SIGN AND TS POST WITH SINGLE FLASHING BEACON
	PROP. SIGN AND TS POST WITH DUAL FLASHING BEACONS
	PROP. SIGN AND WOOD POST
	PROP. ELECTRICAL SERVICE
	PROP. HANDHOLE PCC
	PROP. 4-FACE, 1-SECTION MAST ARM MOUNTED SIGNAL HEAD
	PROP. STEEL MAST ARM ASSEMBLY
	PROP. STOP BAR
	EX. AT&T UNDERGROUND CONDUIT
	PROP. PVC CONDUIT
	PROP. UNIT-DUCT
	PROP. LIGHT POLE AND LUMINAIRE ON PROP. FOUNDATION
	PROP. LIGHTING CONTROLLER
	EX. FLASHING BEACON CONTROLLER (TO BE REMOVED)
	EX. OVERHEAD UTILITY POLE
	PROP. LIGHT POLE NUMBER
	PROP. ISLAND PAVEMENT REMOVAL AND REPLACEMENT
	EX. OVERHEAD UTILITIES

NOT TO SCALE

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PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

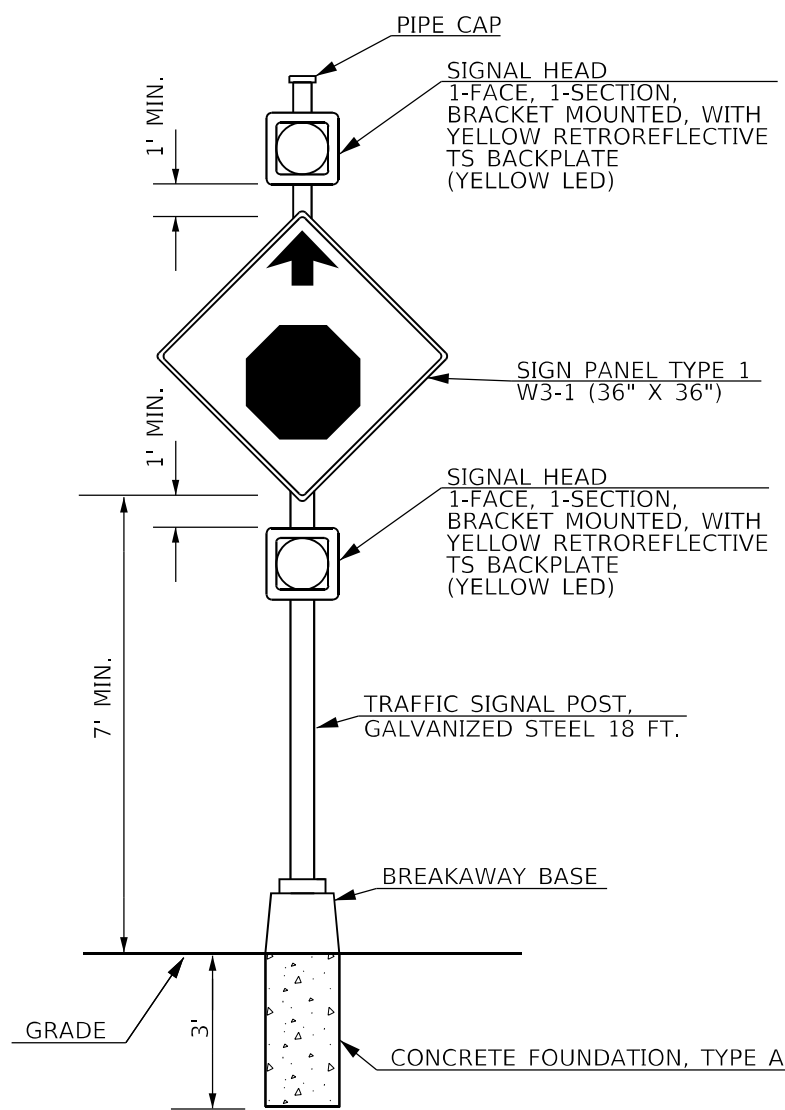
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED FLASHING BEACON AND LIGHTING PLANS - CONTINUED  
 IL 116 & IL 97 - FULTON COUNTY

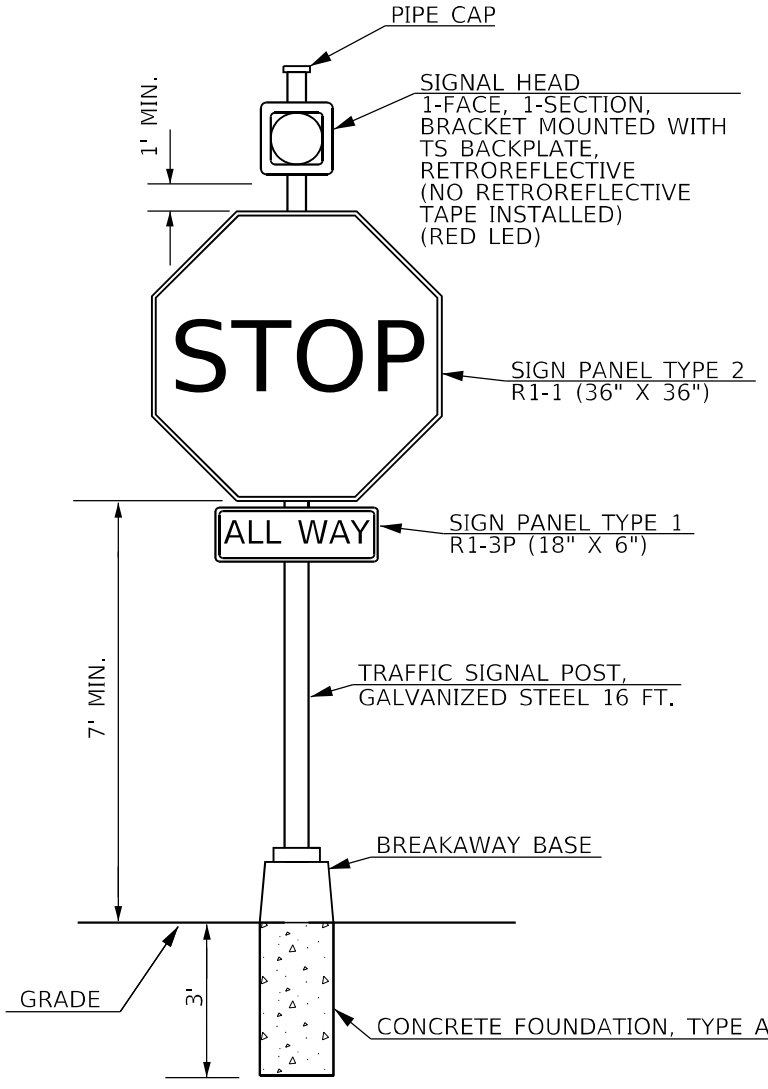
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CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

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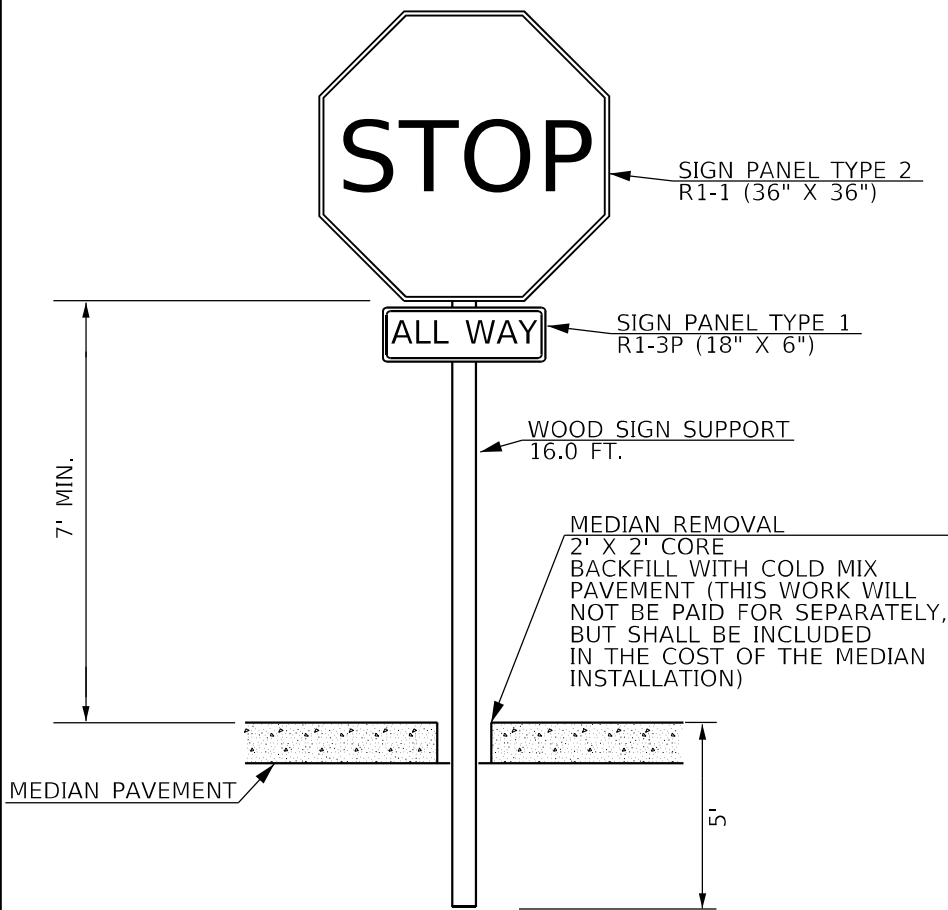
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**STOP AHEAD SIGN  
(WITH DUAL FLASHING BEACONS)**



**STOP SIGN  
(WITH FLASHING BEACON)**



**STOP SIGN**

**NOTES:**  
 1. ALL LED MODULES SHALL OPERATE AT 48VDC OR LESS TO REDUCE THE POTENTIAL FOR ELECTROCUTION AND INJURY IN THE EVEN OF A KNOCKDOWN.  
 2. THE RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES INSTALLED ON THE STOP AHEAD SIGNS (WITH DUAL FLASHING BEACONS) SHALL BE INSTALLED USING RETROREFLECTIVE YELLOW TAPE. THE RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES INSTALLED ON THE STOP SIGNS SHALL BE INSTALLED WITHOUT THE REFLECTIVE TAPE.

NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
PLOT SCALE = 50,3767' / in.	DRAWN -	REVISED -
PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED SIGN DETAILS</b>			
<b>IL 116 &amp; IL 97 - FULTON COUNTY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

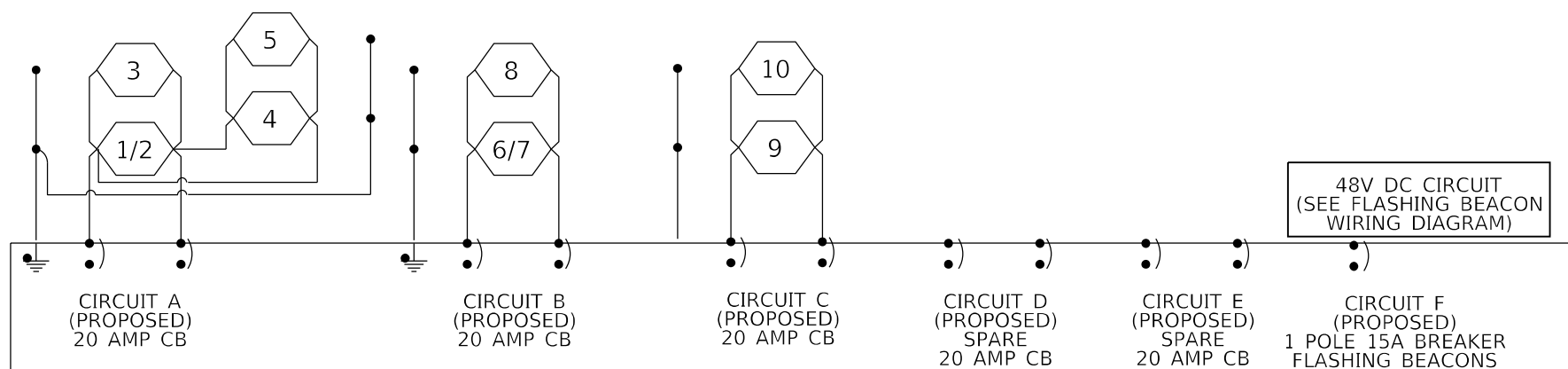
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	27
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

FLASHING BEACON WIRING DIAGRAM

ALL PROPOSED LED MODULES SHALL OPERATE AT 48VDC OR LESS

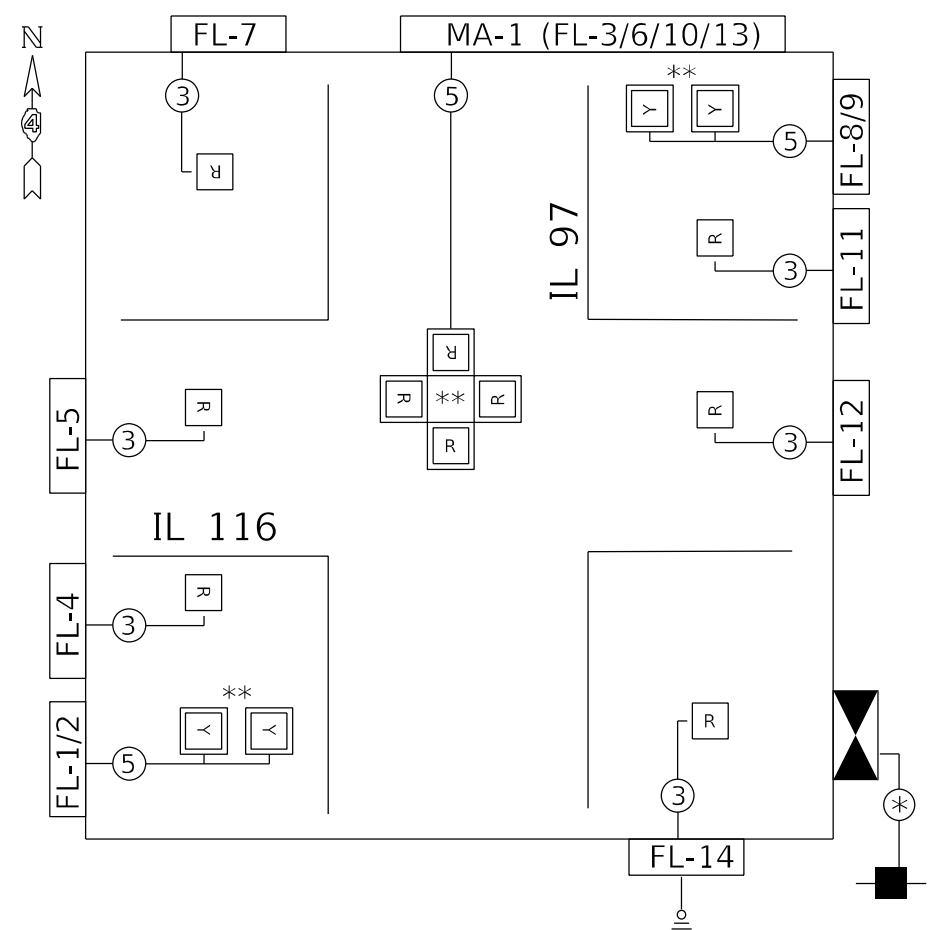
LEGEND

-  PROP. LED LUMINAIRE (INSTALLED ON PROP. LIGHT POLE)
-  PROP. UNIT-DUCT AND GROUND










PROPOSED IL 116 & IL 97 LIGHTING CONTROLLER WITH FLASHING BEACON CIRCUIT CONTROL INSTALLATION TYPE CB-RCS-60-240

- NOTES:
1. THE PROPOSED LIGHTING CONTROLLER SHALL CONTAIN ONE NEMA FLASHER SOCKET, NEMA FLASHER, TERMINAL BLOCKS, 120V AC TO 48V DC TRANSFORMER, AND ALL OTHER ITEMS REQUIRED FOR 48V DC FLASHING BEACON OPERATION. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER.
  2. THE CONTRACTOR SHALL FURNISH AND INSTALL A METAL SCREW-IN FOUNDATION, PEDESTAL POST, AND TRANSFORMER BASE. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE OF THE LIGHTING CONTROLLER.
  3. ALL LED MODULES SHALL OPERATE AT 48VDC OR LESS TO REDUCE THE POTENTIAL FOR ELECTROCUTION AND INJURY IN THE EVEN OF A KNOCKDOWN.
  4. THE FLASHING BEACON CONTROL PANEL SHALL BE INSTALLED INSIDE THE PROPOSED LIGHTING CONTROLLER CABINET.



FLASHING BEACON WIRING DIAGRAM LEGEND

-  PROP. LIGHTING CONTROLLER
-  PROP. ELECTRIC SERVICE
-  PROP. 1 SEC. SIGNAL HEAD WITH BACKPLATE
-  PROP. 1 SEC. SIGNAL HEAD WITHOUT BACKPLATE
-  PROP. 3/C NO. 14 SIGNAL CABLE
-  PROP. 5/C NO. 14 SIGNAL CABLE
-  PROP. #6 1/C CABLE X 2

\*\* WIG WAG FLASHING BEACON OPERATION

NOT TO SCALE

MODEL: Default  
FILE NAME: C:\Users\hansontj\OneDrive - State of Illinois - Docs of Innovation & Technology\Trevor One Drive - IL 116 (IL 116) - Stop Flasher\ITG Transfer\68662 IL 97 & IL 116 (Final 6-25-21).dwg

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	CHECKED - DATE -	REVISED - REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 68G62 ILLINOIS FED. AID PROJECT		

**ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE**  
LED replacement for 400W HPS Horizontal Mount luminaire

**GIVEN CONDITIONS**

<b>ROADWAY DATA</b>	Lane Width	12 ft
	Number of Lanes (in One direction Only)	4
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
<b>LIGHT POLE DATA</b>	Mounting Height	45 ft
	Luminaire Overhang From Edge of Pavement (White Line)	0 ft
<b>LUMINAIRE DATA</b>	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type II or III
	Total Light Loss Factor	0.684
<b>LAYOUT DATA</b>	Spacing	240 ft
	Configuration	One Sided

**NOTES:**

- Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

**PERFORMANCE REQUIREMENTS**

**NOTE:** These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

<b>ILLUMINANCE</b>	Average Illuminance, $E_{AVE}$	<u>0.9 fc to 1.4 fc</u>
	Uniformity Ratio, $E_{AVE}/E_{MIN}$	<u><math>\leq 3.0:1</math></u>
<b>LUMINANCE</b>	Average Luminance, $L_{AVE}$	<u>0.6 cd/m<sup>2</sup> to 0.9 cd/m<sup>2</sup></u>
	Uniformity Ratio, $L_{AVE}/L_{MIN}$	<u><math>\leq 3.5:1</math></u>
	Uniformity Ratio, $L_{MAX}/L_{MIN}$	<u><math>\leq 6.0:1</math></u>
	Max. Veiling Luminance Ratio, $L_v/L_{AVE}$	<u><math>\leq 0.3:1</math></u>

NOTE: PERFORMANCE VALUES MAY BE ROUNDED UP TO ONE SIGNIFICANT DIGIT.

NOT TO SCALE

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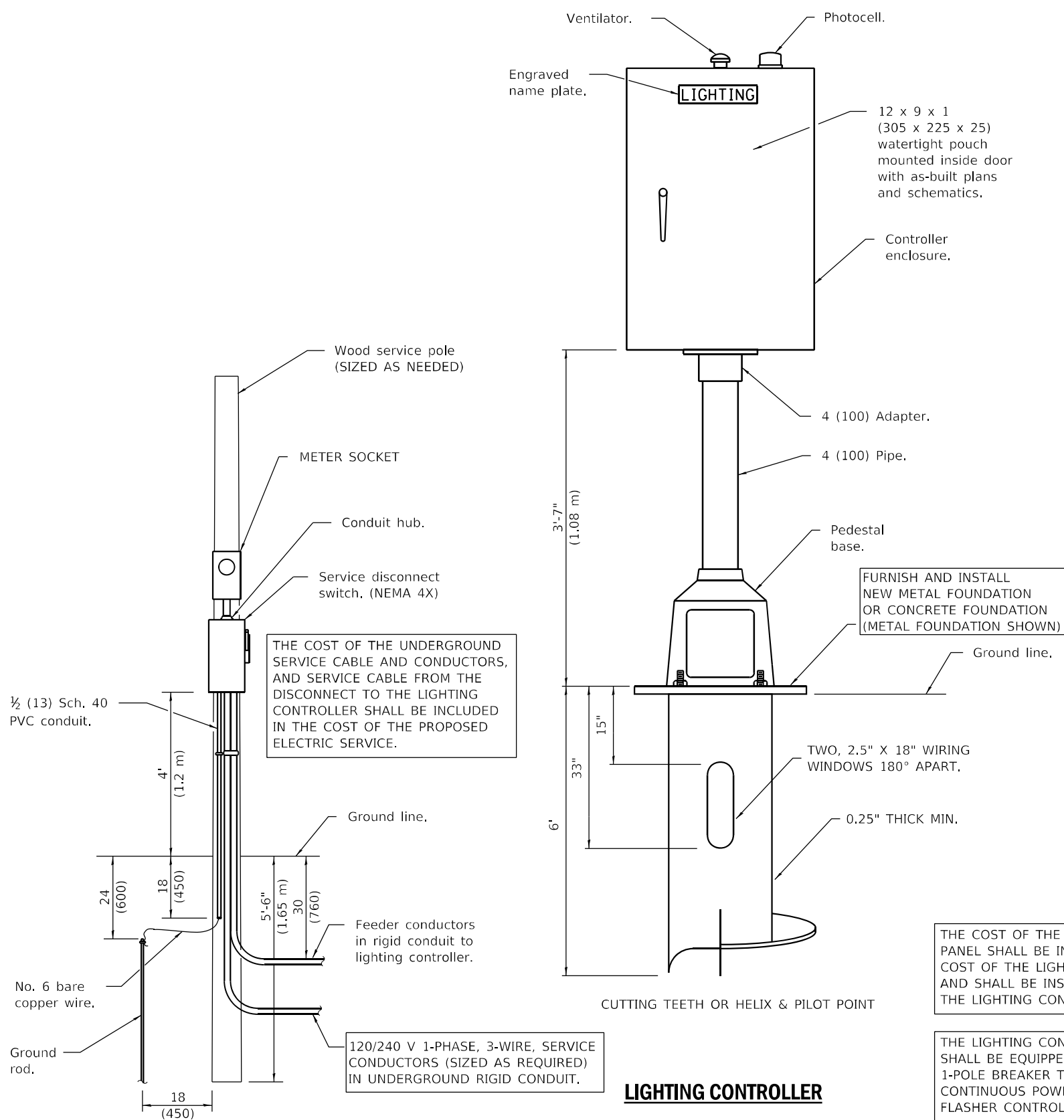
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PLOT DATE = 6/25/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED LUMINAIRE PERFORMANCE TABLE</b>			
<b>IL 116 &amp; IL 97 - FULTON COUNTY</b>			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 68G62	
		ILLINOIS	FED. AID PROJECT	

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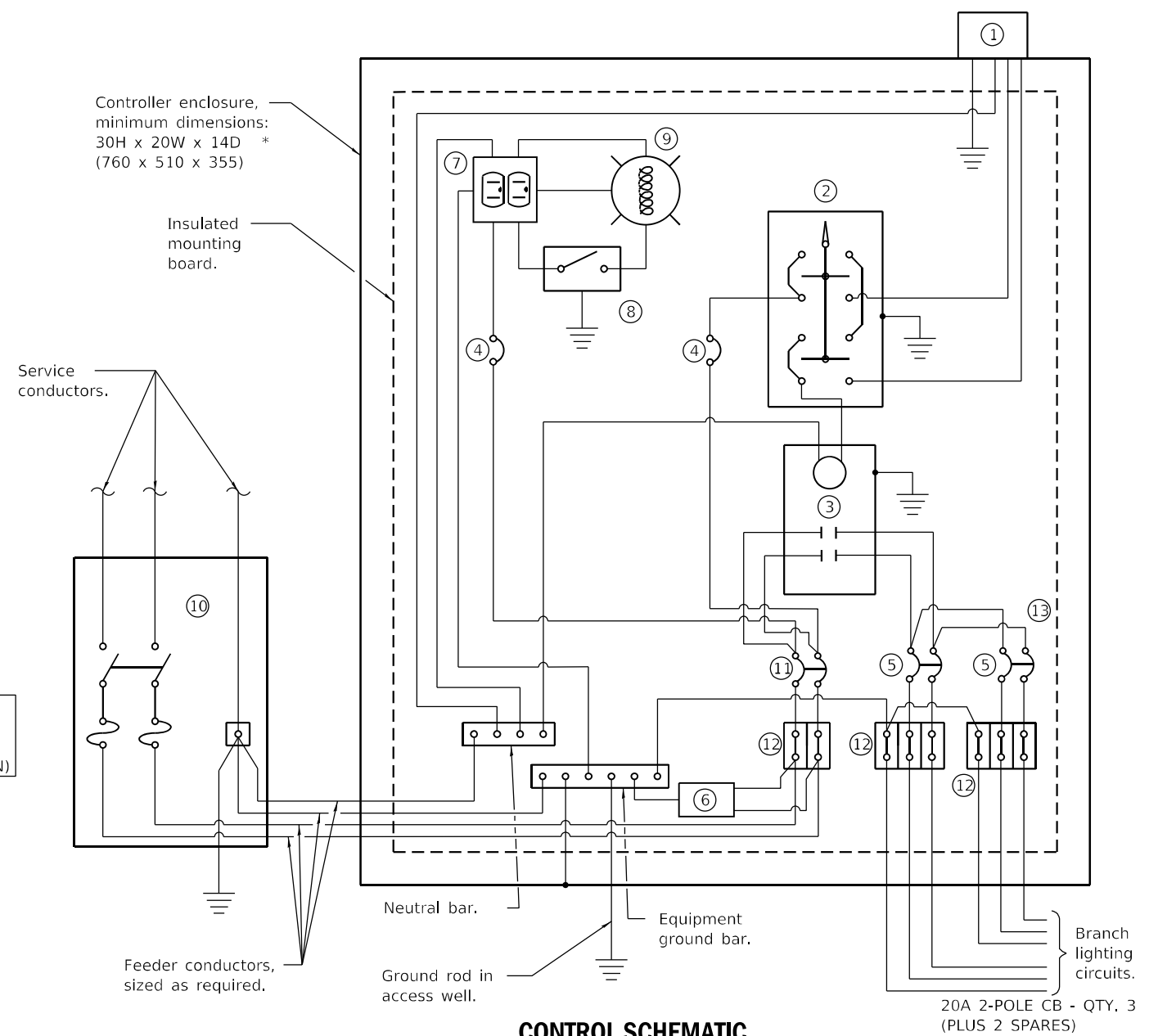


THE CONTRACTOR SHALL FURNISH AND INSTALL EITHER A METAL HELIX FOUNDATION OR CONCRETE FOUNDATION FOR THE PROPOSED LIGHTING CONTROLLER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP."

THE COST OF THE FLASHER CONTROL PANEL SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER AND SHALL BE INSTALLED INSIDE THE LIGHTING CONTROLLER CABINET.

THE LIGHTING CONTROLLER CABINET SHALL BE EQUIPPED WITH ONE 20A 1-POLE BREAKER THAT PROVIDES CONTINUOUS POWER TO THE FLASHER CONTROLLER.

THE CONTRACTOR SHALL INSTALL A CONCRETE STAND PAD 36" (L) X 30" (W) X 4" (D) FOR THE PROPOSED LIGHTING CONTROLLER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER.



- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 60 amp\*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp\*, 2-pole circuit breaker (QTY 3.0 PLUS 2 SPARES).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ LED light bulb, enclosed and gasketed with 800 lumen lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 60 amp\*, fused at 60 amp\*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ 60 amp\*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.
- ⑬ 15A 1-POLE CIRCUIT BREAKER (QTY. 1)

\* Size larger as needed.

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

NOT TO SCALE

USER NAME = hansonj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50,3767 * / in.	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING CONTROLLER DETAIL  
IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

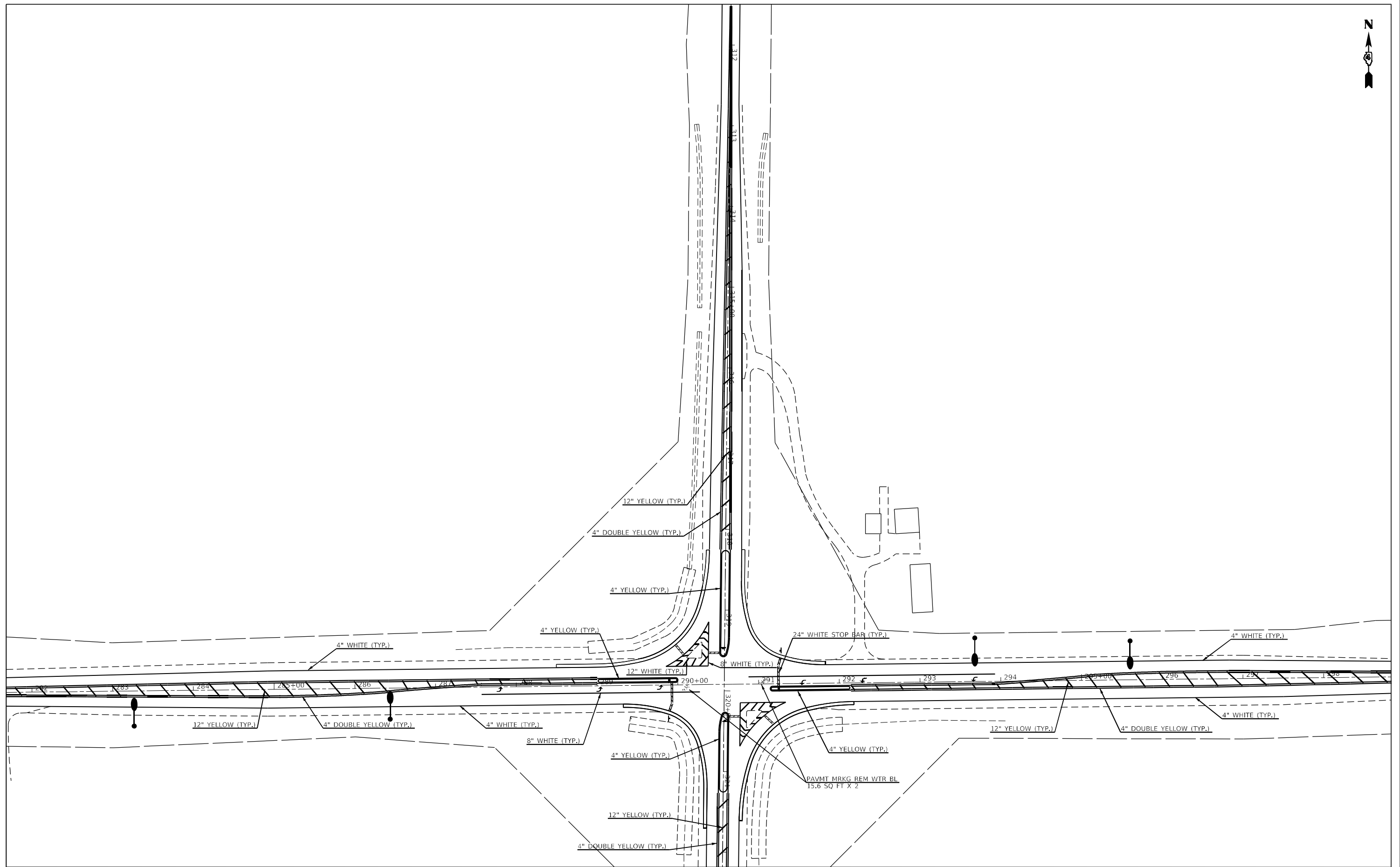
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	30
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

MODEL Default  
 FILE NAME: C:\Users\hansontj\OneDrive - State of Illinois - Docs of Innovation & Technology\Trevor One Drive # 68662 IL 97 & IL 116 (4 Way Stop) Pavement Marking Schedule 68662 IL 97 & IL 116 (Final) 6-25-21.dwg

PAVEMENT MARKING SCHEDULE											
PAY ITEM NO.	78009000	78009004		78009008	78009012		78009024	78100100	78200020	78300200	78300202
DESCRIPTION	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"		MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER	CURB REFLECTORS	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING
COLOR	WHITE	YELLOW	WHITE	WHITE	YELLOW	WHITE	WHITE	AMBER	AMBER	-	-
UNIT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	SQ FT
IL 116 & IL 97	93.6	18439.0	10349.0	375.0	1685.0	236.0	131.0	218.0	50.0	218.0	31.2

NOTES:  
 1. PROPOSED PAVEMENT MARKINGS WILL BE INSTALLED IN THE PLACE OF EXISTING PAVEMENT MARKINGS WHERE APPLICABLE.

USER NAME = hansontj DESIGNED - DRAWN - PLOT SCALE = 50.3767 * / in. PLOT DATE = 6/25/2021	REVISIONS REVISIONS REVISIONS REVISIONS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED PAVEMENT MARKING SCHEDULE</b> <b>IL 116 &amp; IL 97 - FULTON COUNTY</b>	F.A.P. RTE. = 665 SECTION = (143,23)N.L COUNTY = FULTON TOTAL SHEETS = 37 SHEET NO. = 31 CONTRACT NO. 68G62 ILLINOIS FED. AID PROJECT
SCALE:			SHEET OF SHEETS STA. TO STA.	



NOT TO SCALE

MODEL: Default  
 FILE NAME: C:\Users\hansontj\OneDrive - State of Illinois - Docs of Innovation & Technology\Trevor One Drive - IL 116 (4 Way Stop) - 68662 IL 97 & IL 116 (Final 6-25-21).dwg

USER NAME = hansonjt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.3767' / in.	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

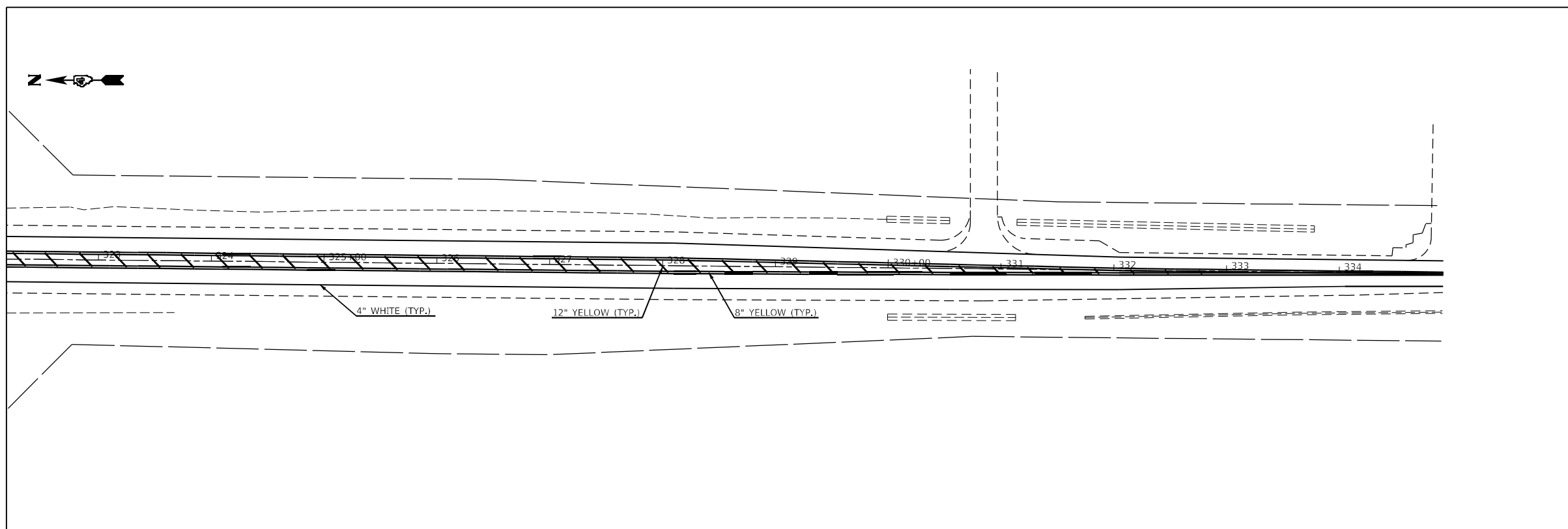
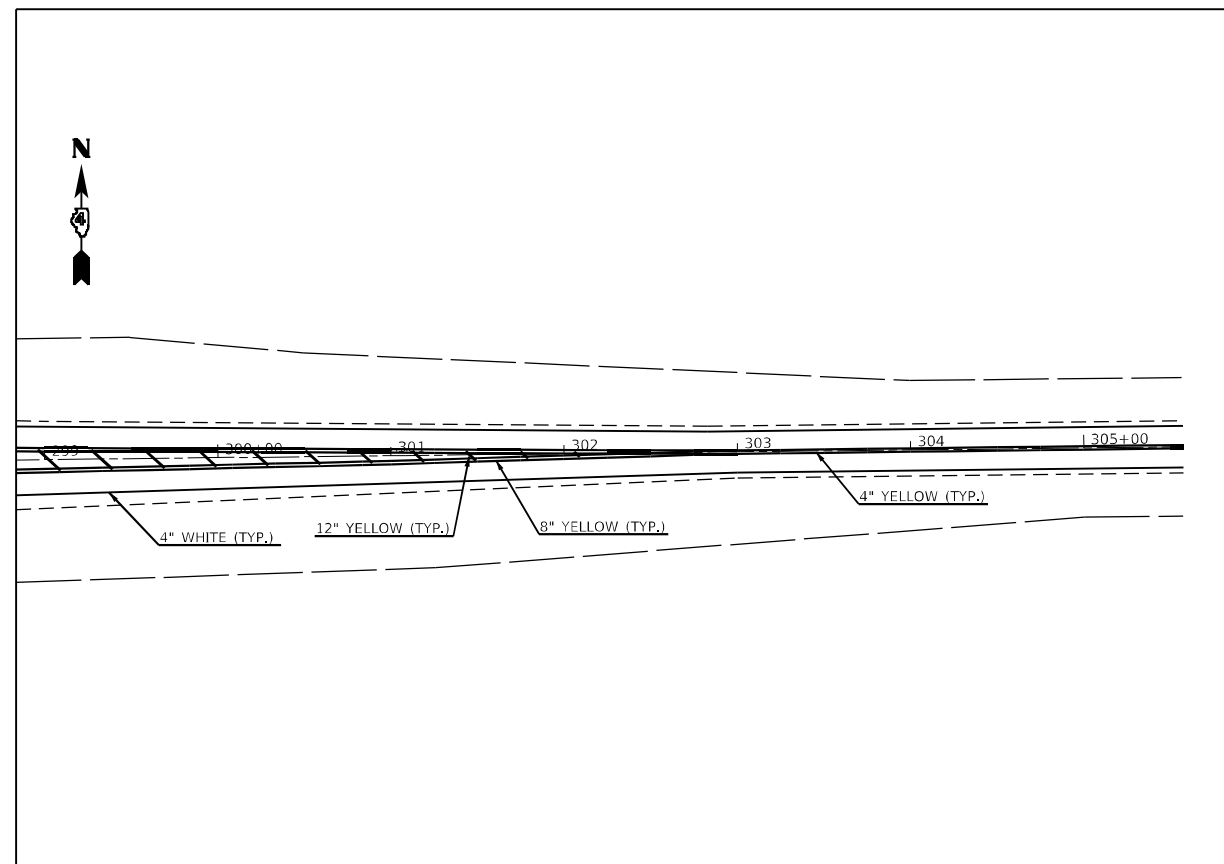
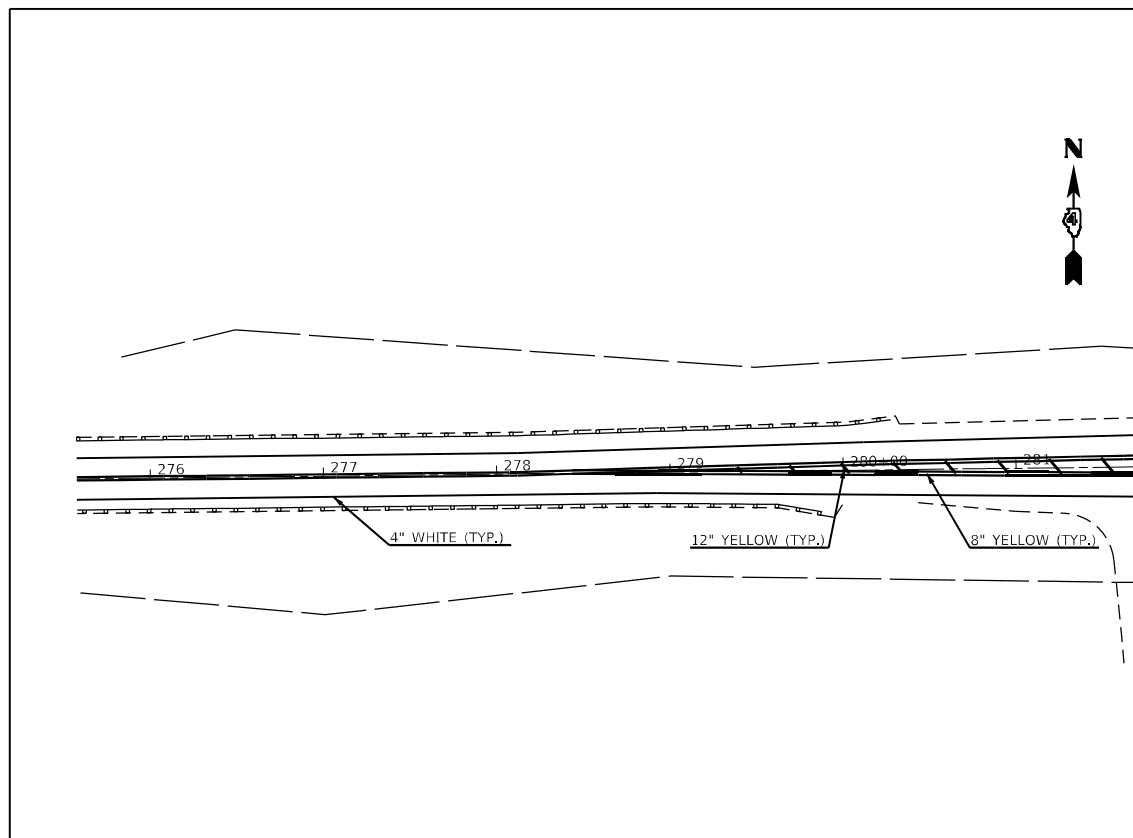
**PROPOSED PAVEMENT MARKING PLANS  
 IL 116 & IL 97 - FULTON COUNTY**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(143,23)N.L	FULTON	37	32
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



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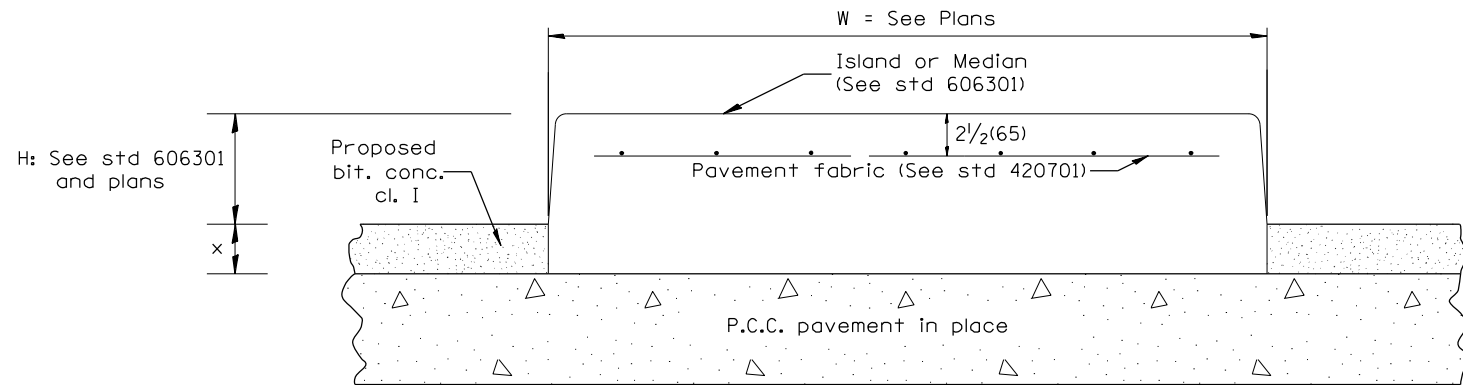
USER NAME = hansonj	DESIGNED -	REVISED -
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PLOT DATE = 6/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING PLANS - CONTINUED**  
**IL 116 & IL 97 - FULTON COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 665	SECTION (143,23)N.L	COUNTY FULTON	TOTAL SHEETS 37	SHEET NO. 33
CONTRACT NO. 68G62				
ILLINOIS FED. AID PROJECT				



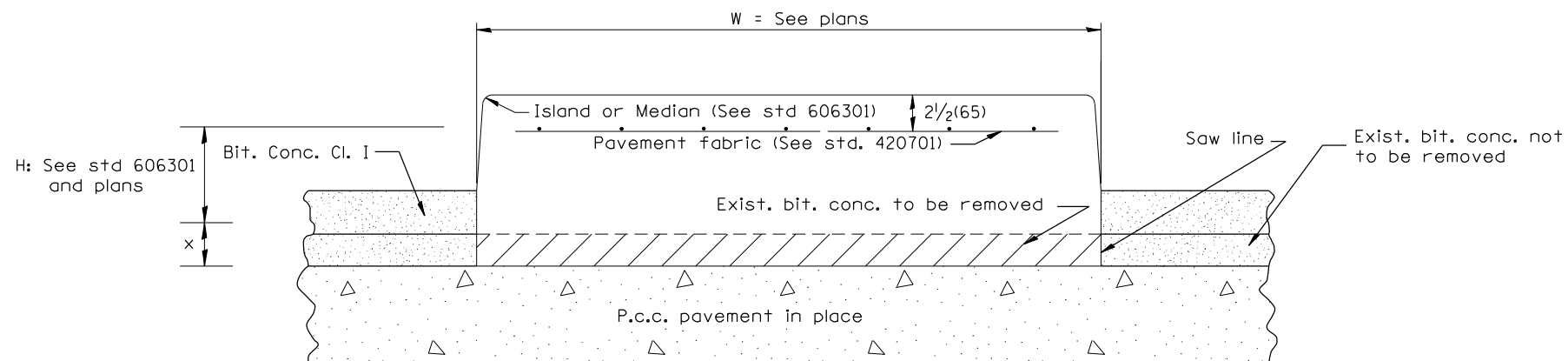
P.C.C. PAVEMENT

LEGEND

- X = thickness of proposed overlay (see plans)
- H = height of island or median (see std 606301 and plans)
- W = width of island or median (see plans)

GENERAL NOTES:

1. This work shall consist of constructing P.C. concrete Islands and medians of variable width as shown on the plans and in accordance to the applicable portions of section 606 of the Standard Specifications and Standard 606301.



PREVIOUSLY RESURFACED P.C.C. PAVEMENT

DESIGNER NOTES: 1. INCLUDE STD 420701 AND 606301  
2. INCLUDE DISTRICT SPECIAL PROVISION

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

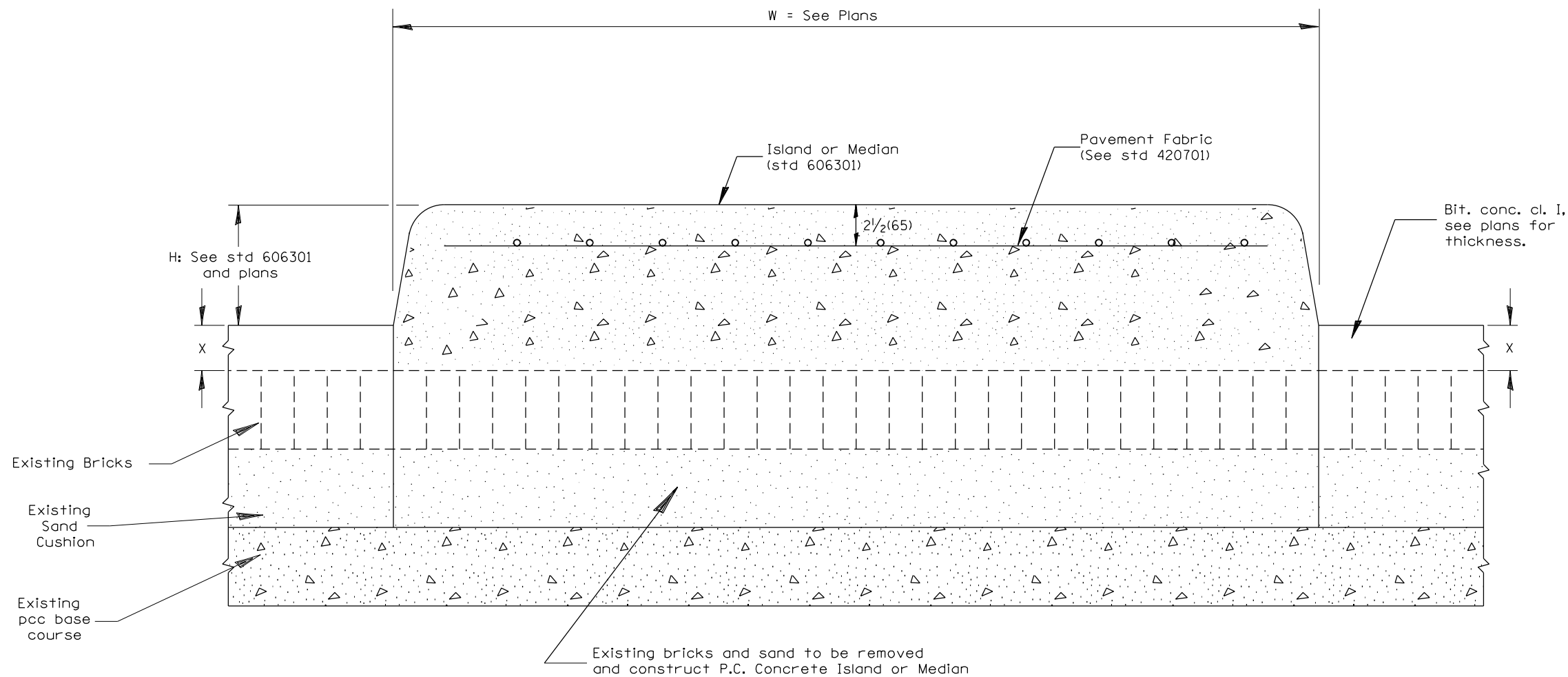
01-01-97	RENUM. A-7.05, & A-7.07, NEW REVISION BOX, NEW FORMAT, REVISED TITLE BOX, REVISED NOTES	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**P.C. CONCRETE ISLANDS AND MEDIANS  
(CONSTRUCTED ON TOP OF EXISTING PAVEMENT)**  
NOT TO SCALE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(143,23)N,L	FULTON	37	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G62	

SHT. 1 OF 2  
CADD STD. 606301-D4



**BRICK PAVEMENT**

**LEGEND**

X = thickness of proposed overlay (see plans)

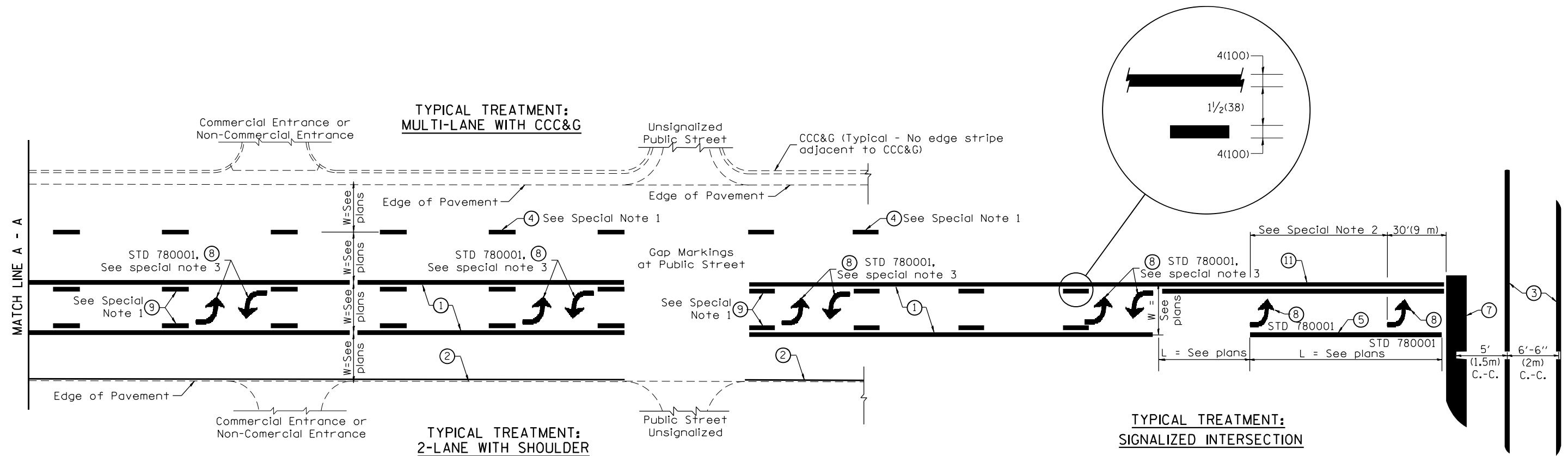
H = height of island or median  
(see std 606301 and plans)

W = width of island or median  
(see plans)

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				P.C. CONCRETE ISLANDS AND MEDIANS (CONSTRUCTED ON TOP OF EXISTING PAVEMENT)				F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								685		(143,23)N,L	FULTON	37	35
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 606301-D4				CONTRACT NO. 68G62					
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

DESIGNER NOTES:  
1. Include State Standard 780001 (Typical Pavement Markings)



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
  - Through Arrow= 14.8 sq. ft.
  - Large Left or Right Arrow= 21.9 sq. ft.
  - 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
  - Wrong Way Arrow= 29.5 sq. ft.
  - Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

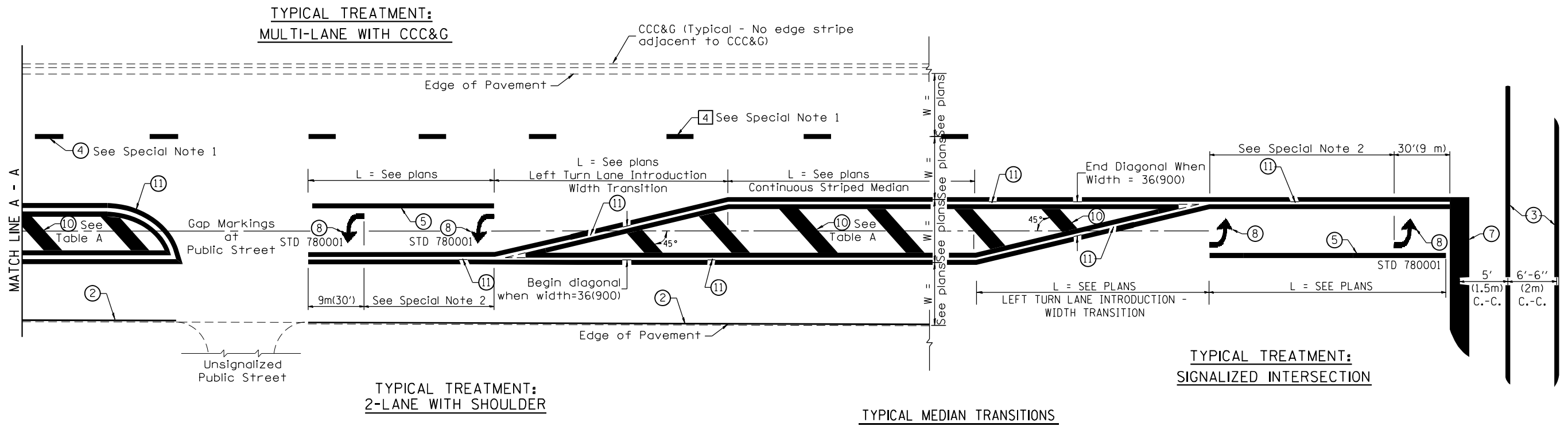
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS**

SHT. 1 OF 2  
CADD STD. 780001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(143,23)N,L	FULTON	37	36
CONTRACT NO. 68G62				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



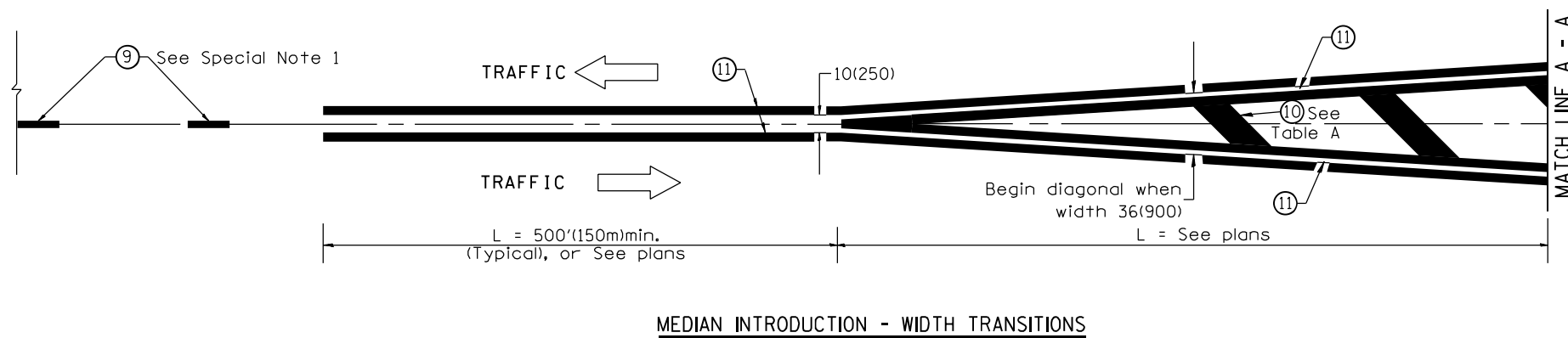
FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TYPICAL TREATMENT: SIGNALIZED INTERSECTION

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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