

NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

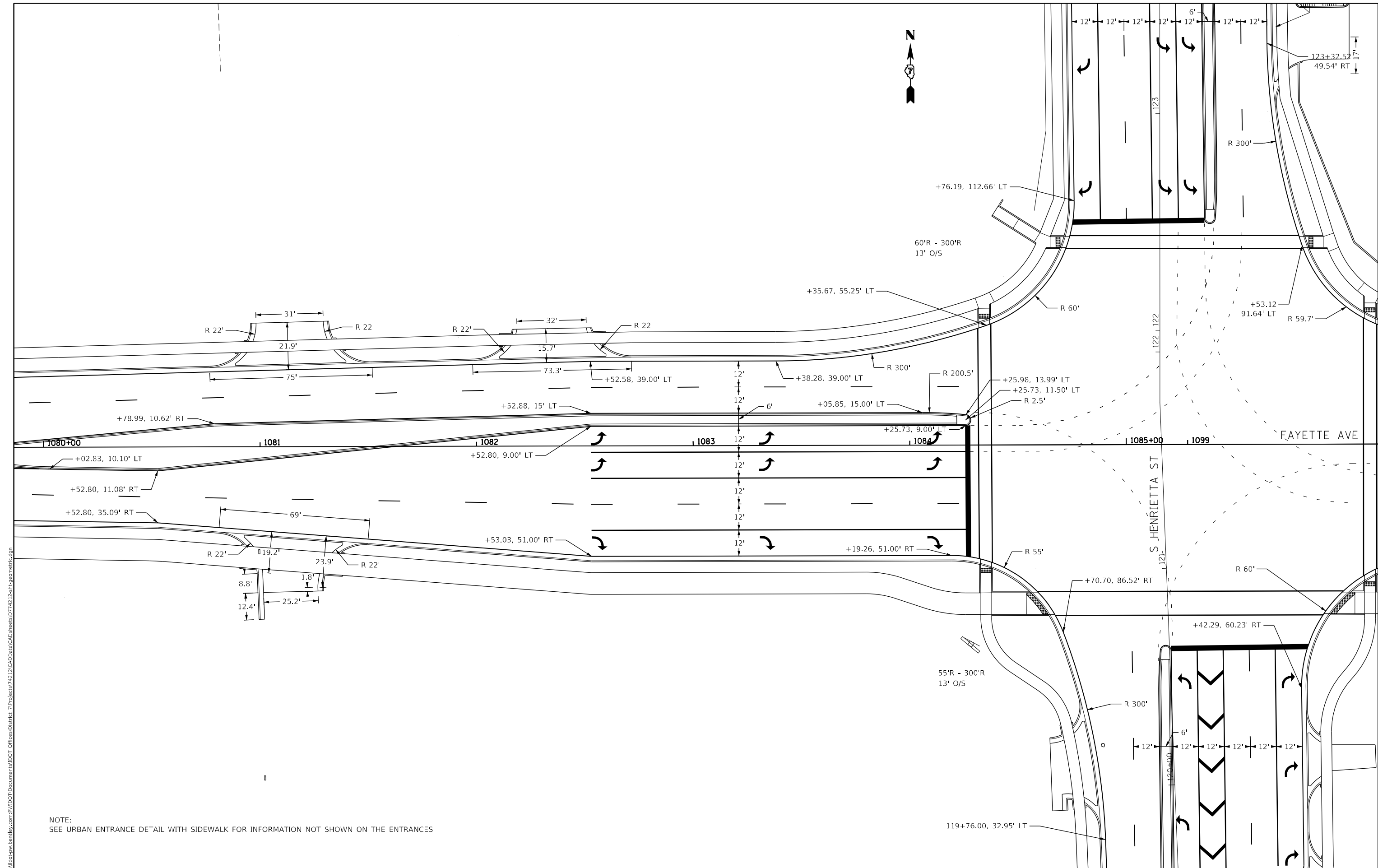
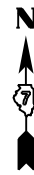
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PLOT SCALE = 40,0001 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE GEOMETRIC PLAN SHEET
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	201
CONTRACT NO. 74212				
		ILLINOIS	FED. AID PROJECT	



NOTE:
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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 40,0001 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/27/2022	DATE -	REVISED -

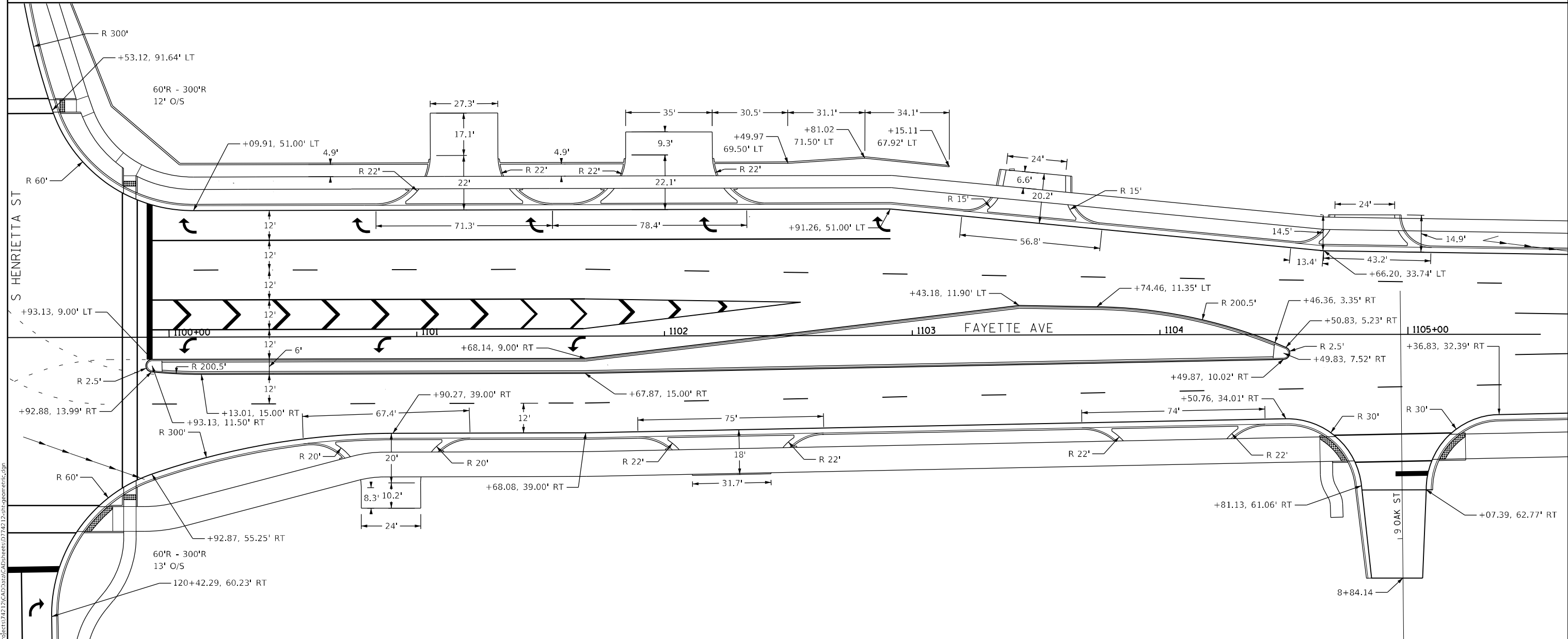
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE GEOMETRIC PLAN SHEET

SCALE:	SHEET OF SHEETS	STA. TO STA.
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F.A.P. RTE. 95	SECTION (182)R	COUNTY Effingham	TOTAL SHEETS 385	SHEET NO. 202
CONTRACT NO. 74212			ILLINOIS FED. AID PROJECT	

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NOTE:
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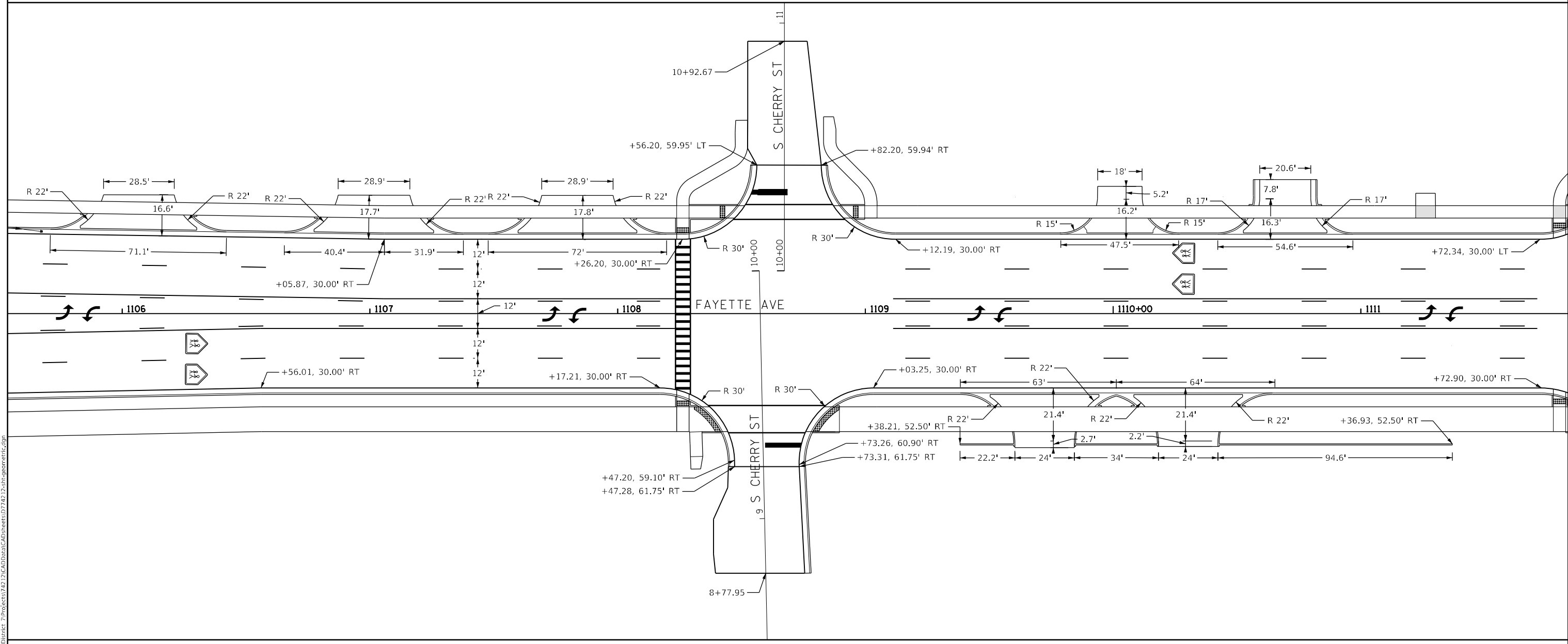
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PLOT DATE = 10/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE GEOMETRIC PLAN SHEET			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	203
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

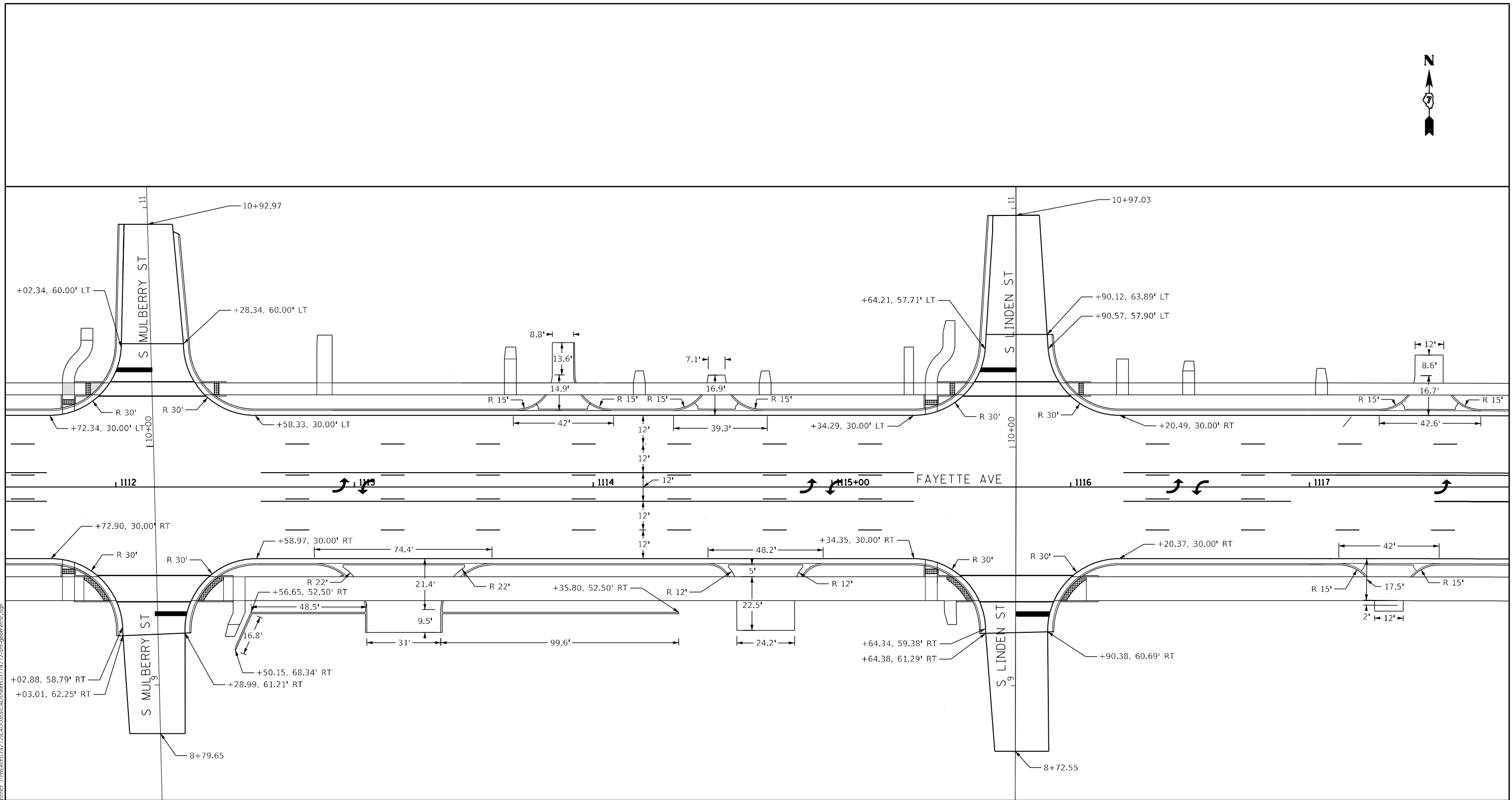
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PLOT DATE = 10/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE GEOMETRIC PLAN SHEET
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	204
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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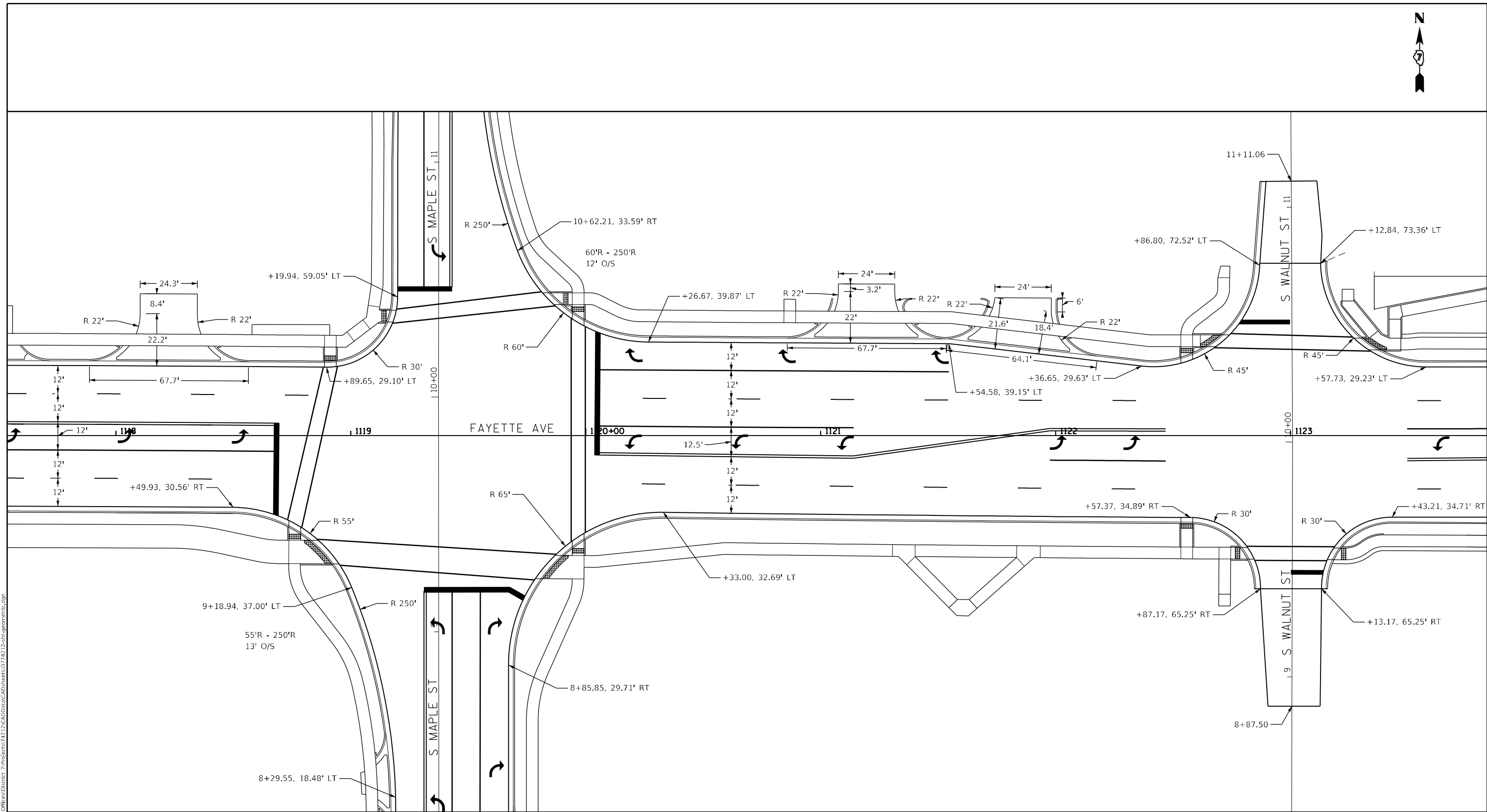
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PLOT DATE = 10/27/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	205
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

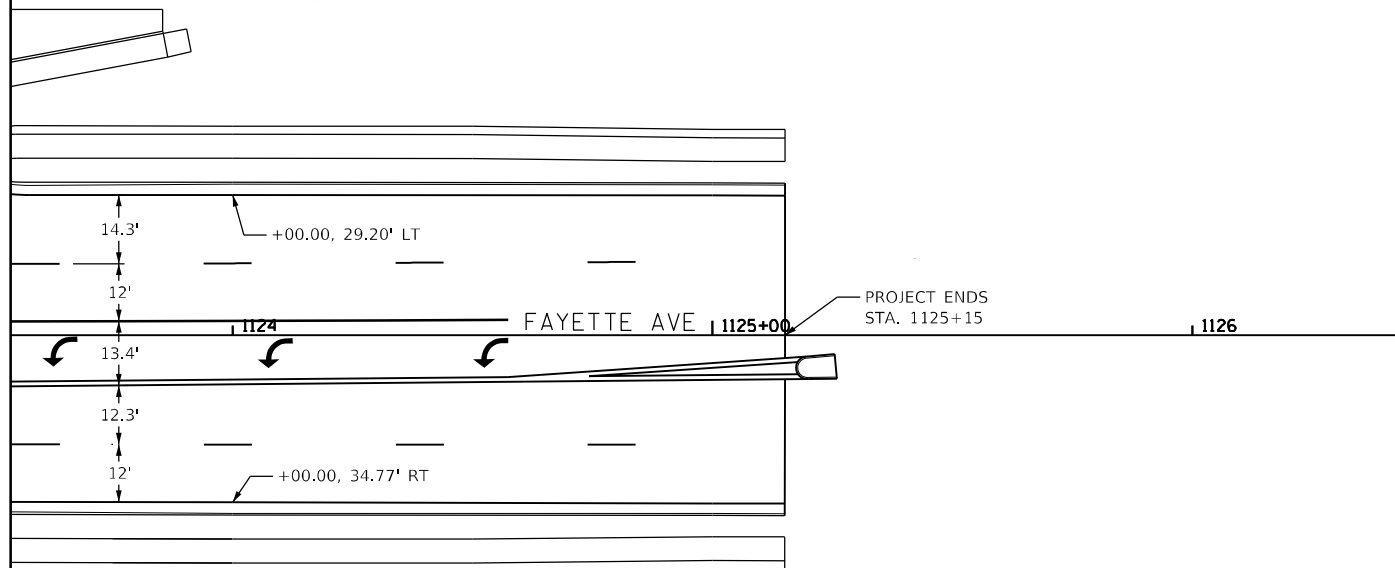
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE GEOMETRIC PLAN SHEET			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	206
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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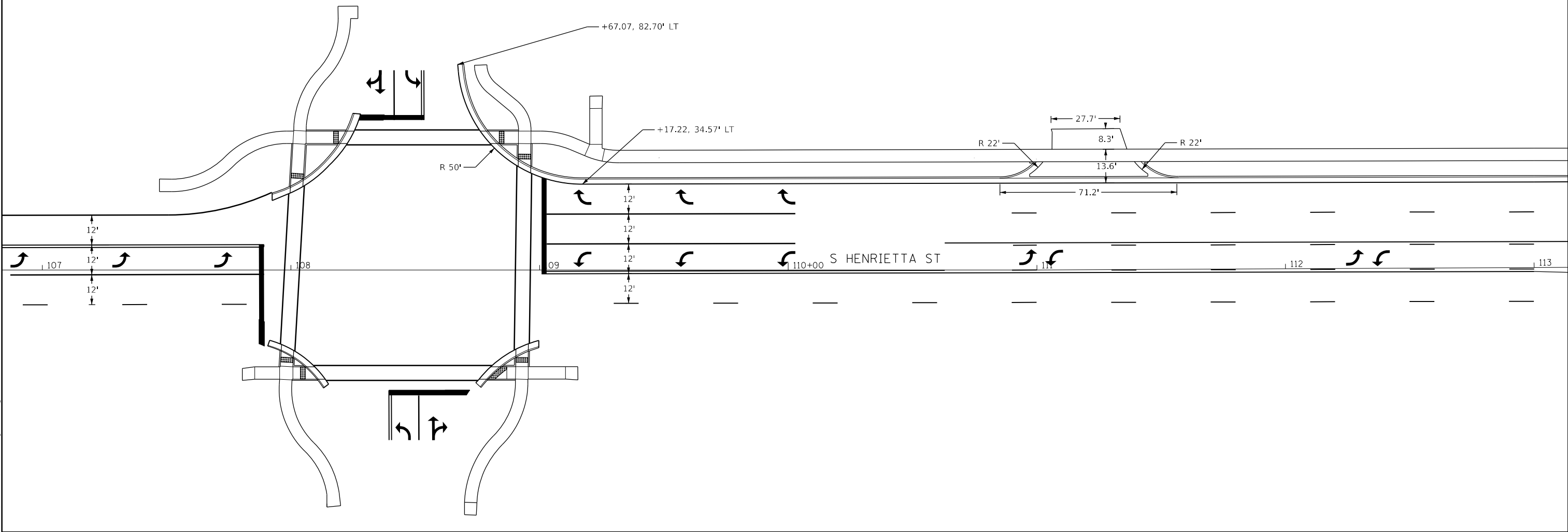
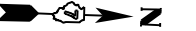
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PLOT DATE = 10/27/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	207
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



W GROVE AVE

NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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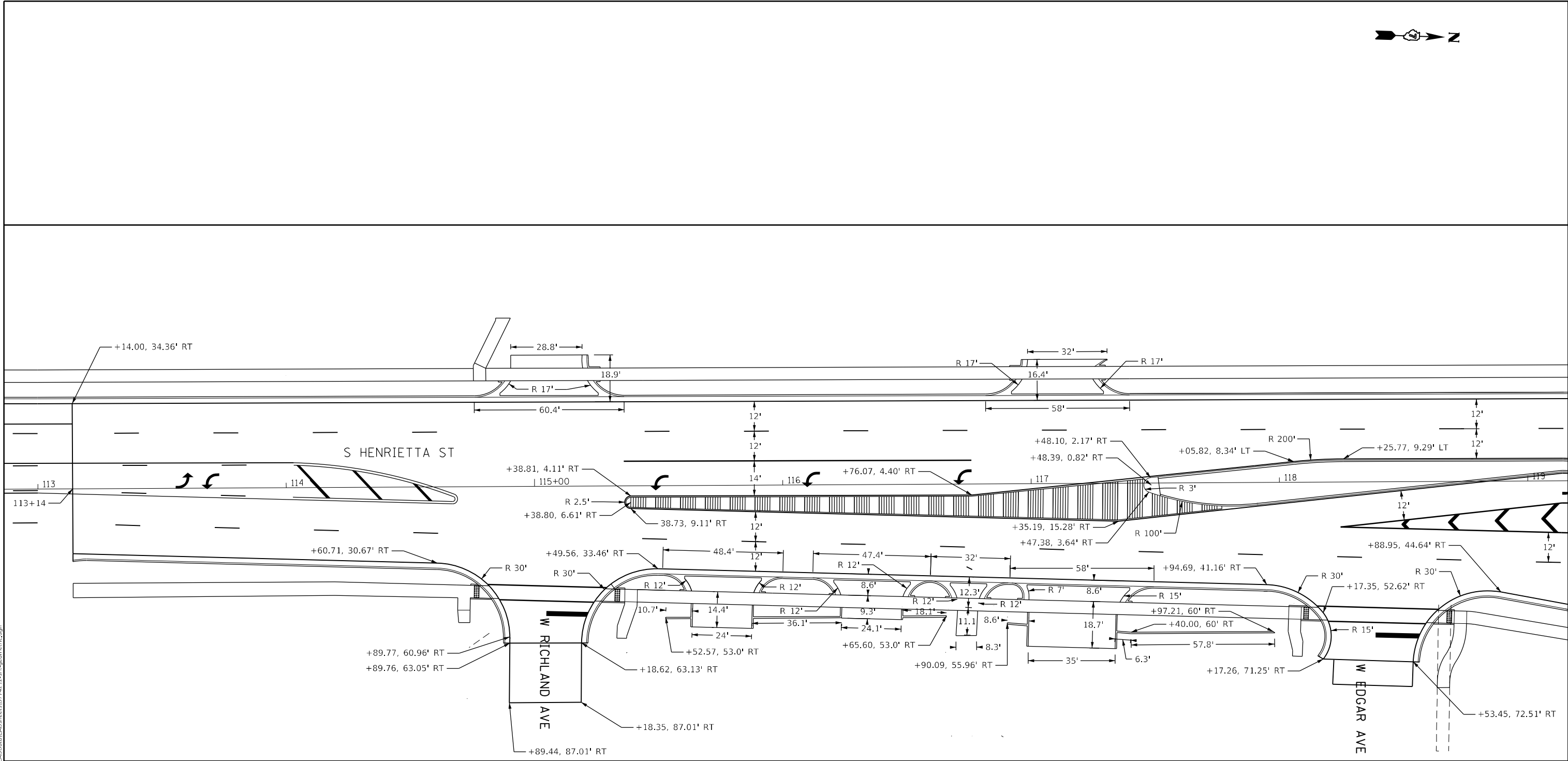
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HENRIETTA ST GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	208
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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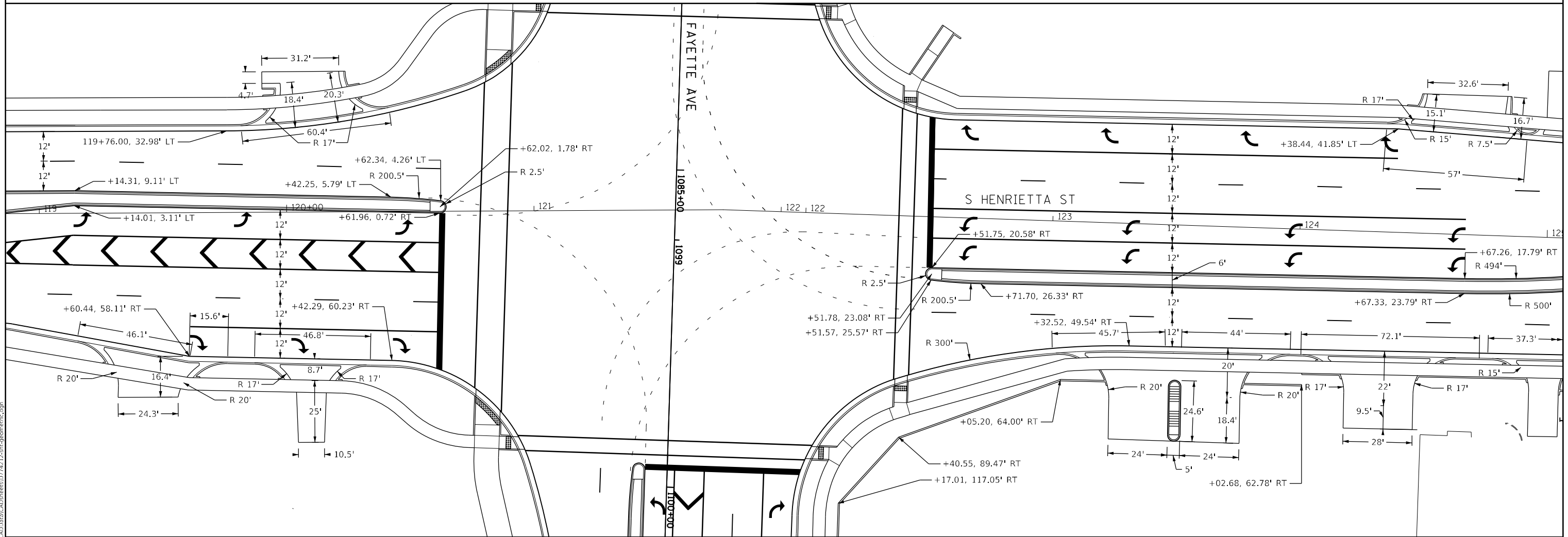
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PLOT DATE = 10/27/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

HENRIETTA ST GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	209
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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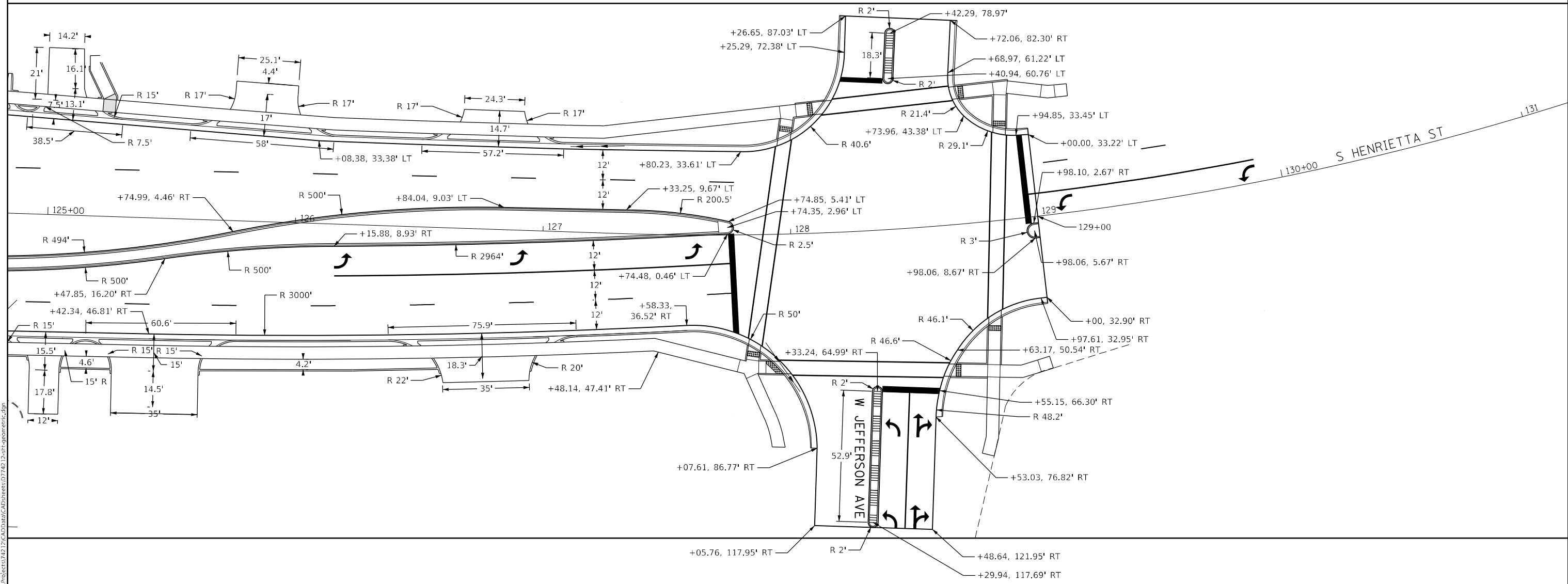
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PLOT DATE = 10/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HENRIETTA ST GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	210
			CONTRACT NO. 74212	
ILLINOIS FED. AID PROJECT				



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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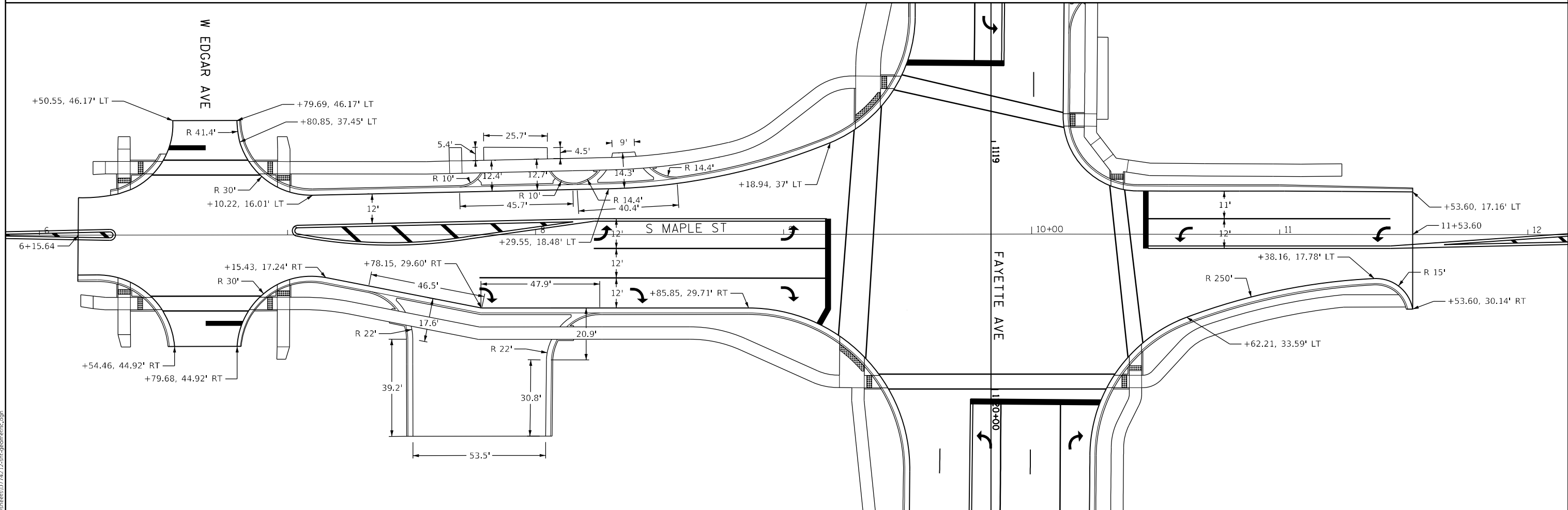
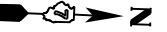
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PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HENRIETTA ST GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	211
CONTRACT NO. 74212			ILLINOIS FED. AID PROJECT	



NOTE:
SEE URBAN ENTRANCE DETAIL WITH SIDEWALK FOR INFORMATION NOT SHOWN ON THE ENTRANCES

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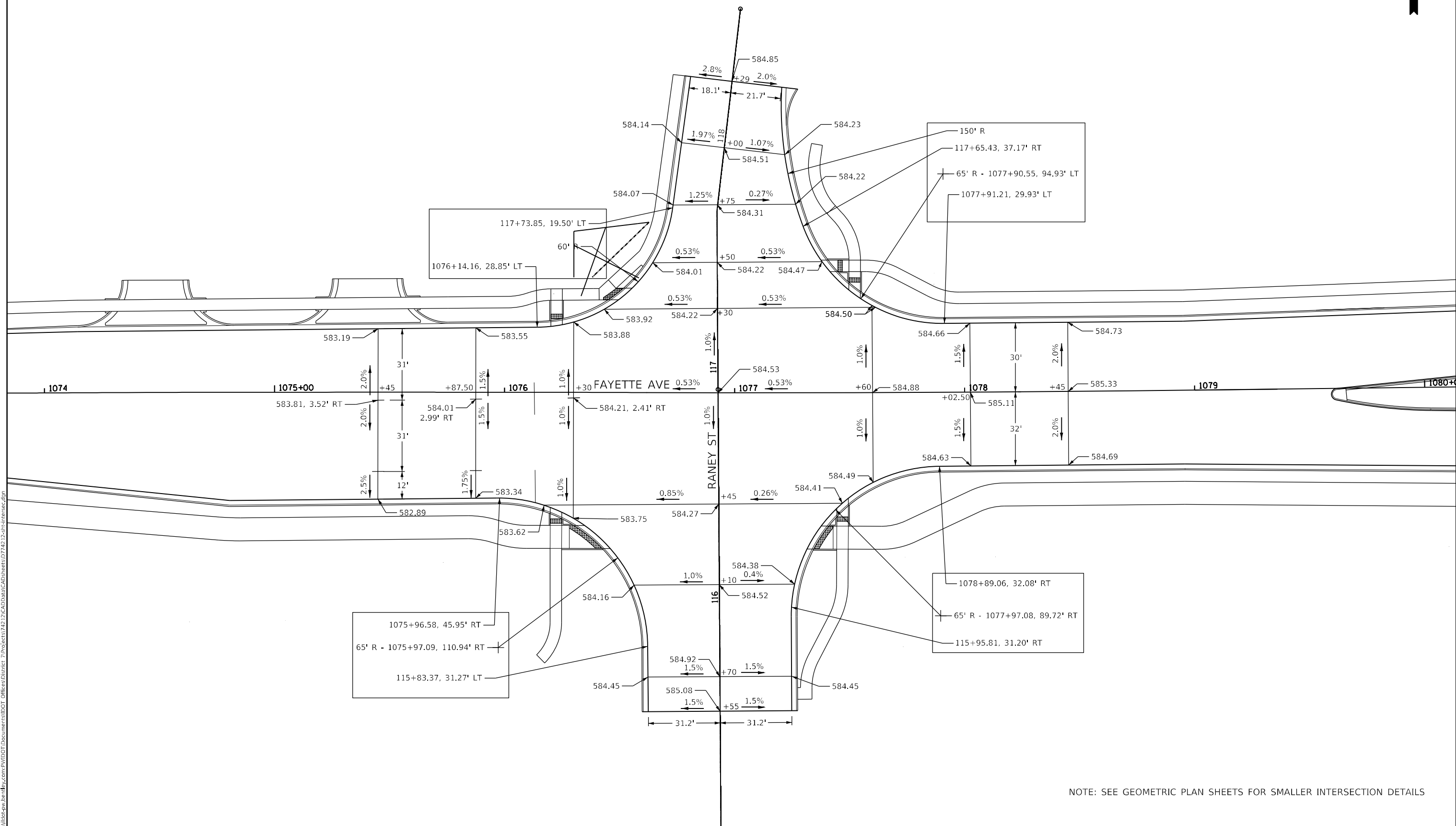
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PLOT DATE = 10/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAPLE ST GEOMETRIC PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	212
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



117+73.85, 19.50' LT
 1076+14.16, 28.85' LT
 60'

150' R
 117+65.43, 37.17' RT
 65' R - 1077+90.55, 94.93' LT
 1077+91.21, 29.93' LT

1075+96.58, 45.95' RT
 65' R - 1075+97.09, 110.94' RT
 115+83.37, 31.27' LT

1078+89.06, 32.08' RT
 65' R - 1077+97.08, 89.72' RT
 115+95.81, 31.20' RT

NOTE: SEE GEOMETRIC PLAN SHEETS FOR SMALLER INTERSECTION DETAILS

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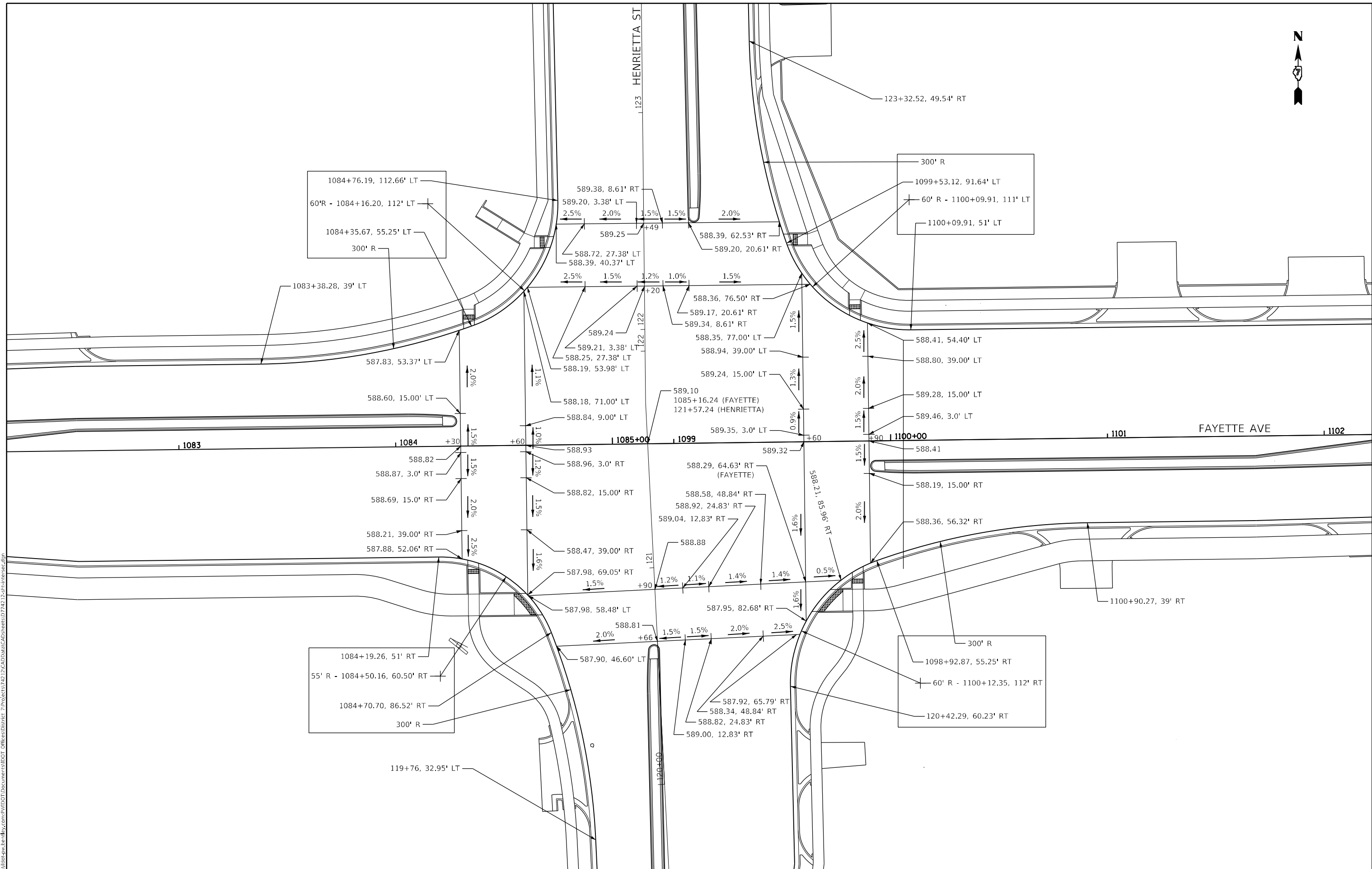
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE & RANEY ST INTERSECTION DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	213
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



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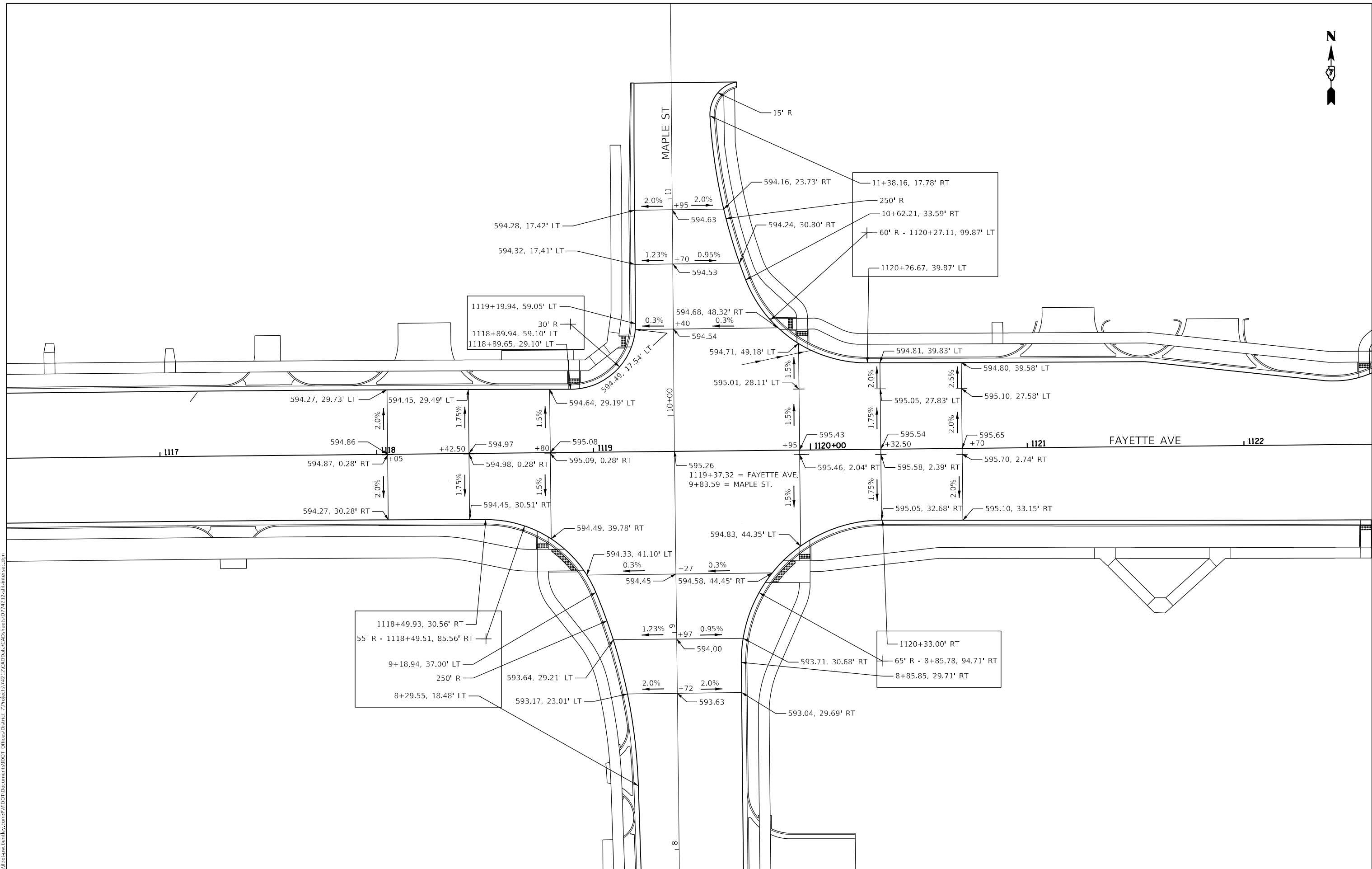
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE & HENRIETTA ST INTERSECTION DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	214
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



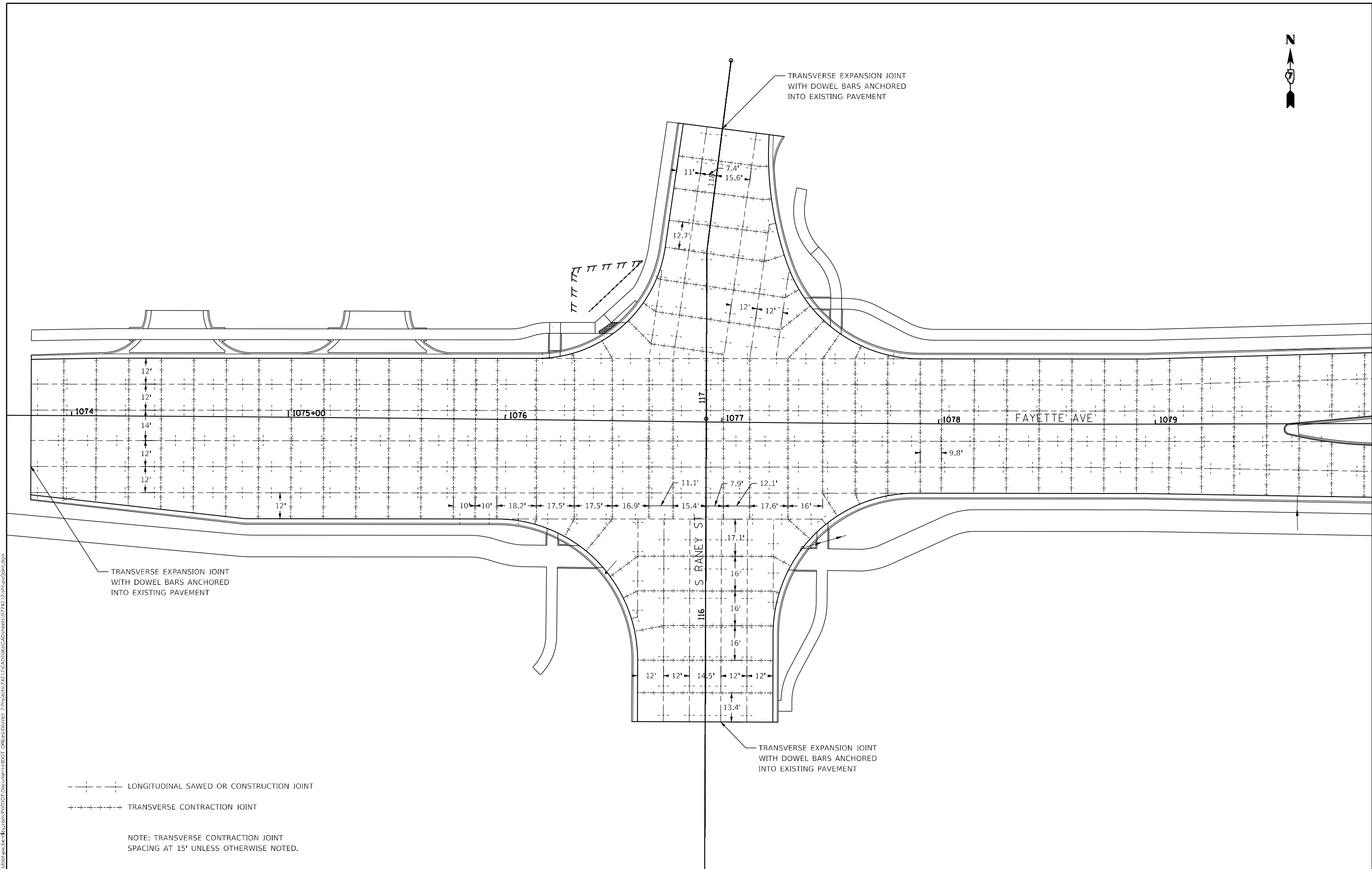
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE & MAPLE ST INTERSECTION DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	215
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



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 + + + + + TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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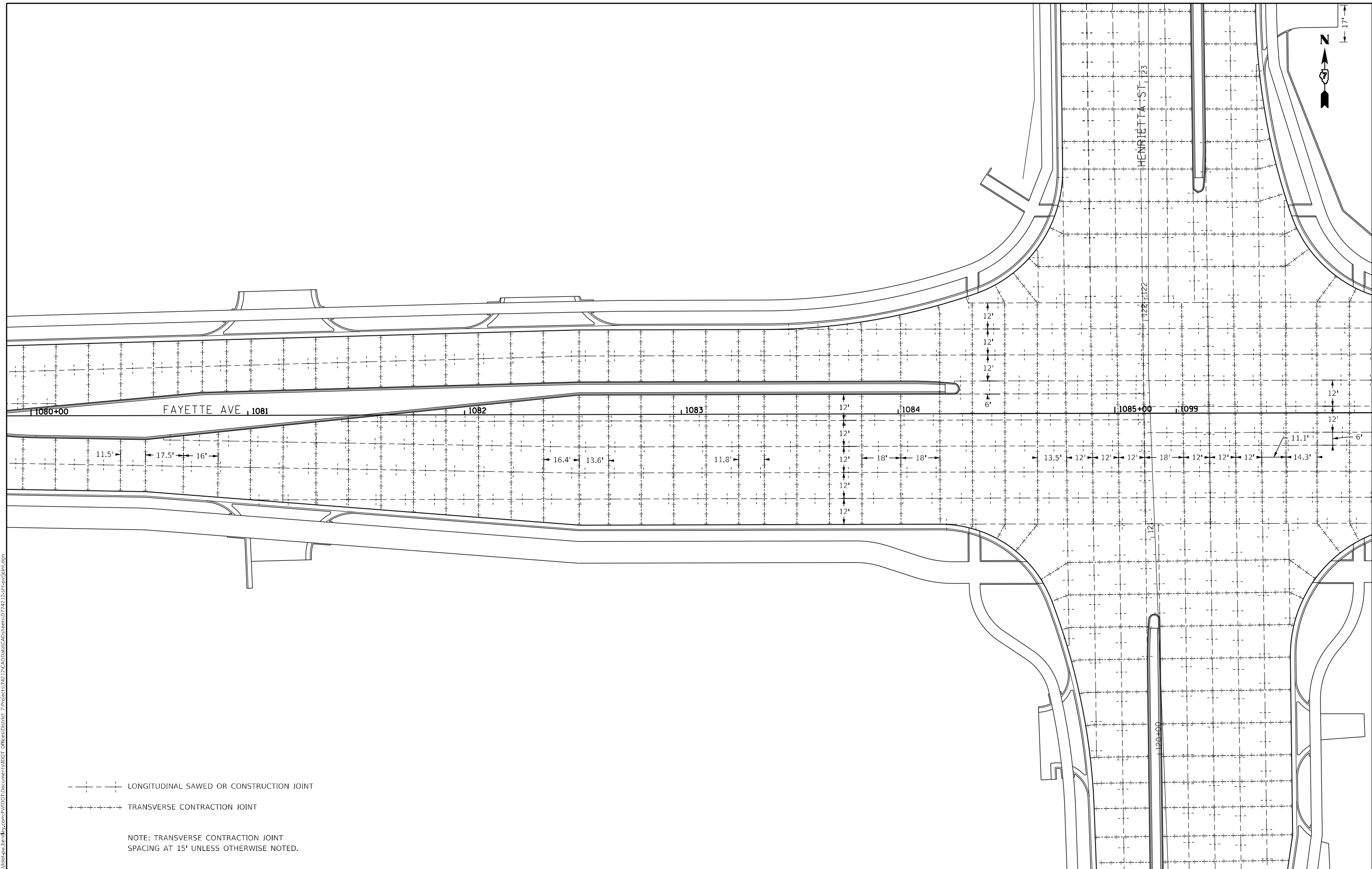
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	216
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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 TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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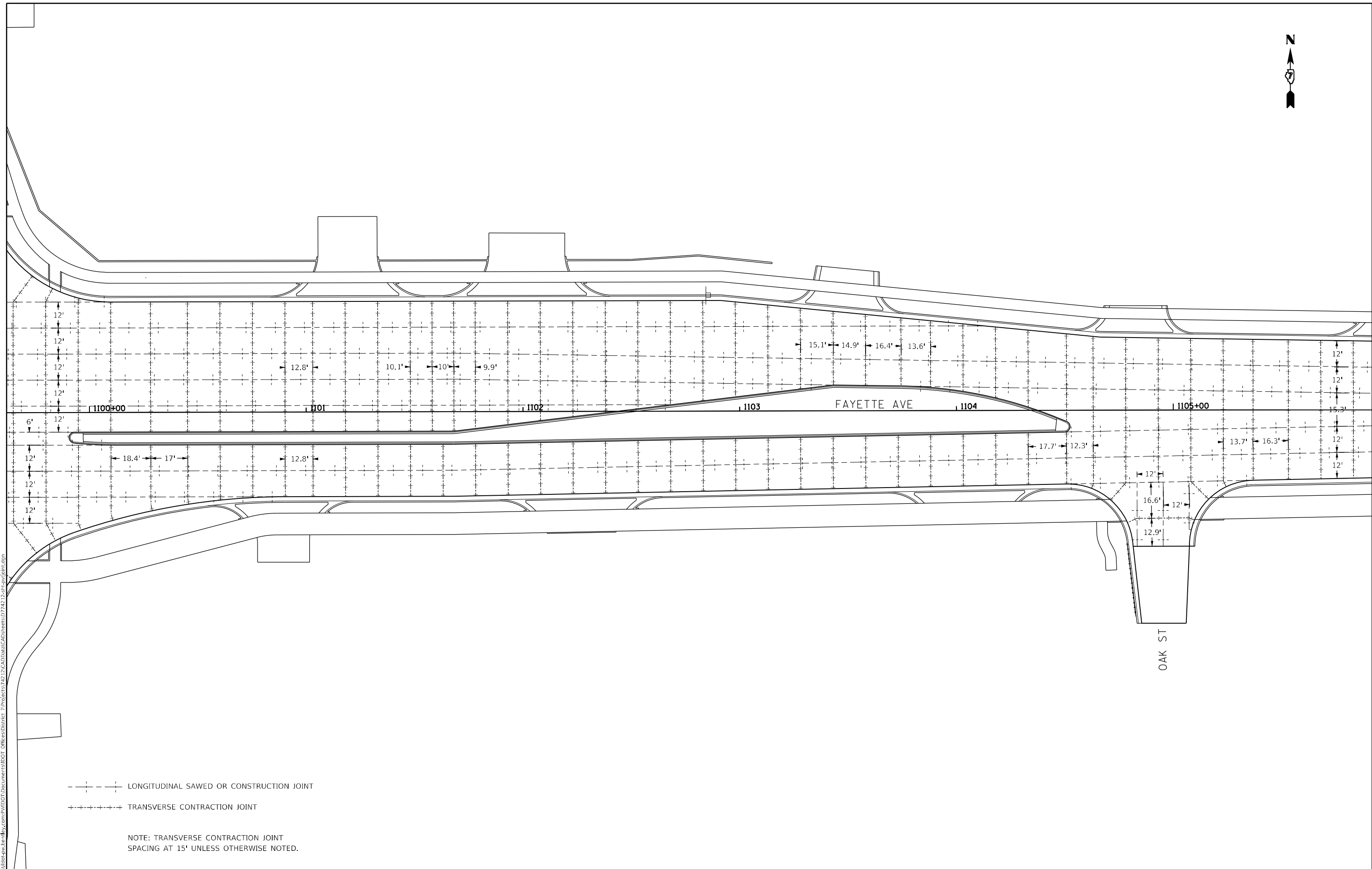
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 95	SECTION (182)R	COUNTY Effingham	TOTAL SHEETS 385	SHEET NO. 217
CONTRACT NO. 74212				

ILLINOIS FED. AID PROJECT



- - - - - LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 - + - + - + - TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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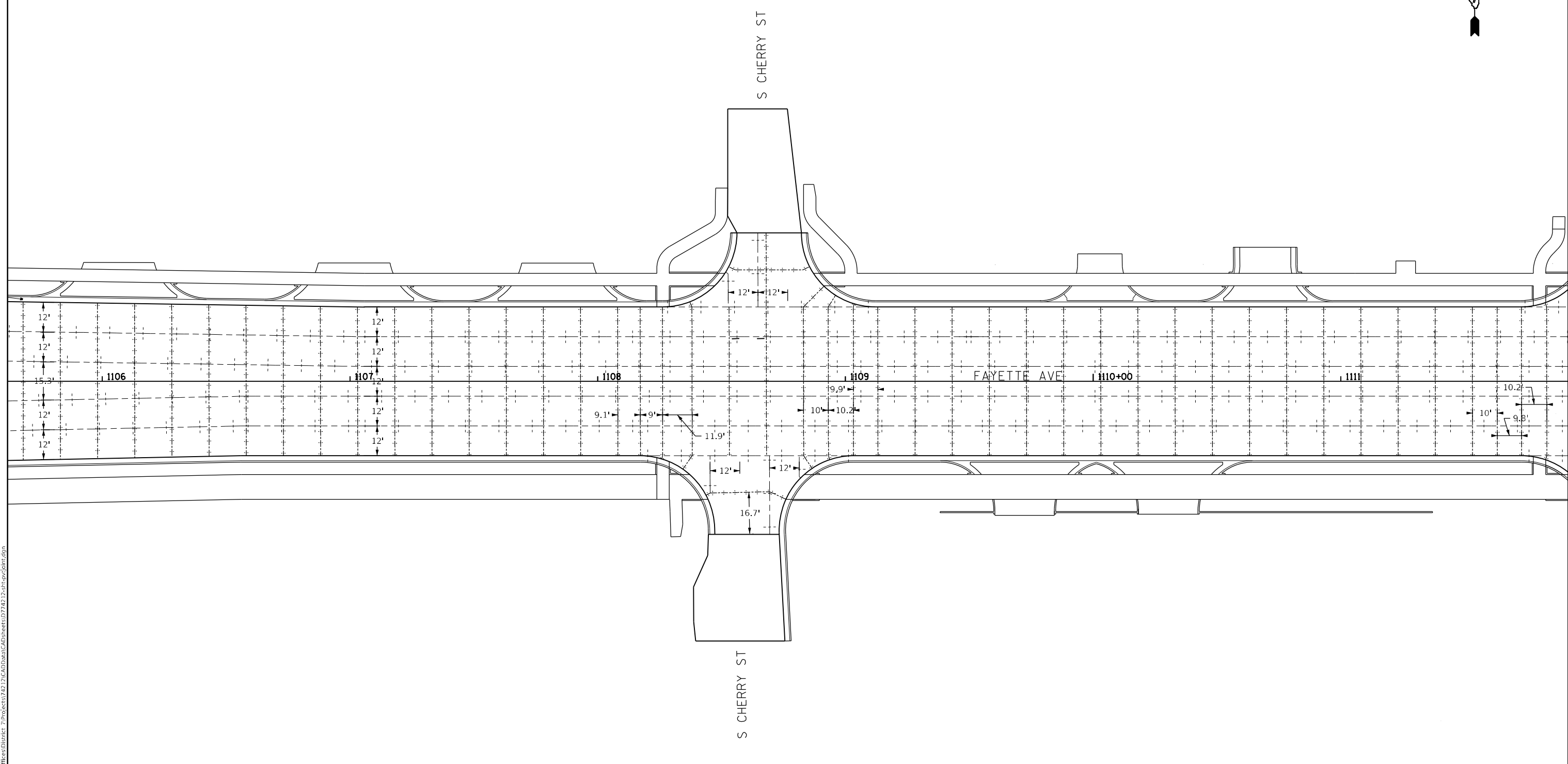
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	218
CONTRACT NO. 74212				

ILLINOIS FED. AID PROJECT



- - - - - LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 + + + + + TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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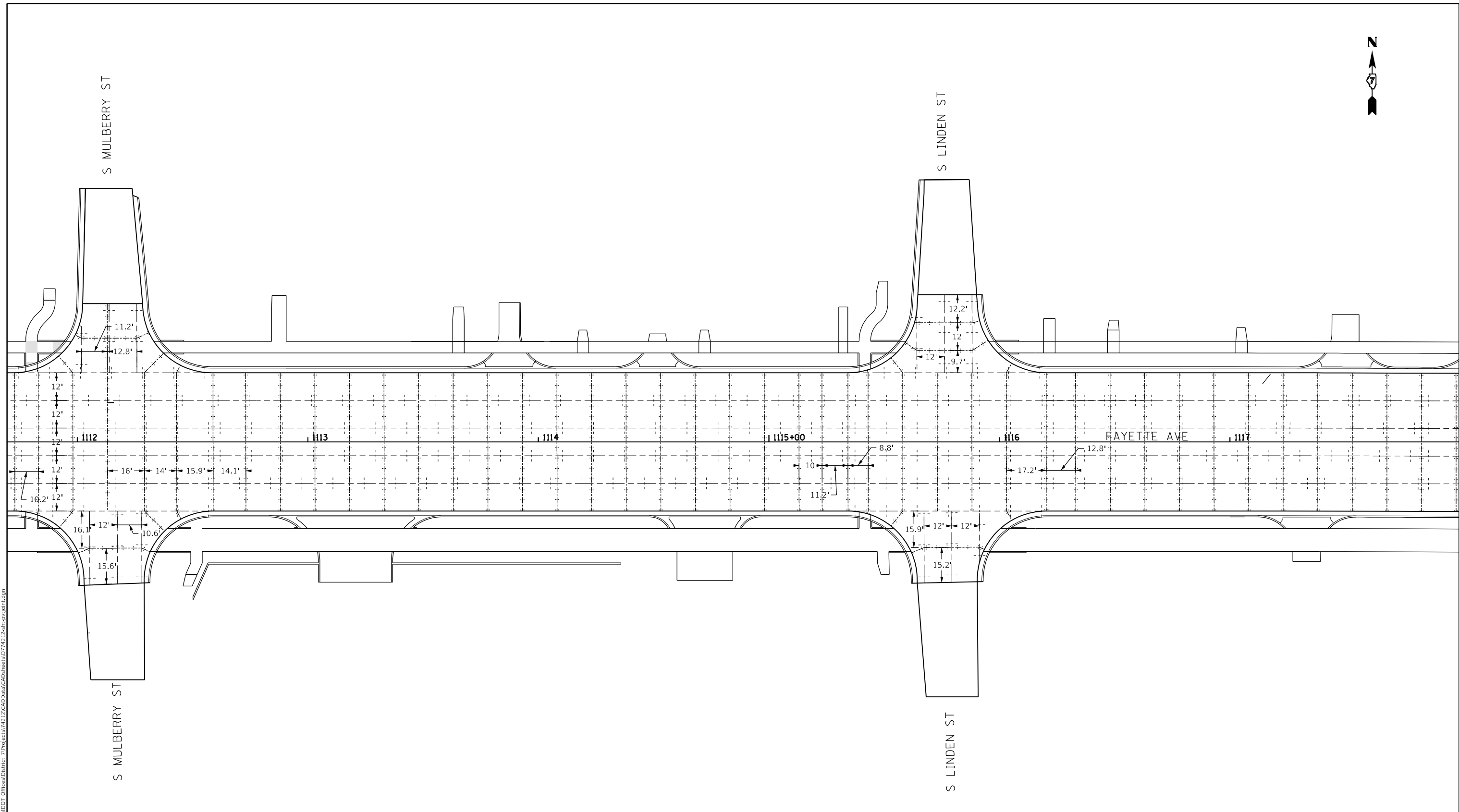
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	219
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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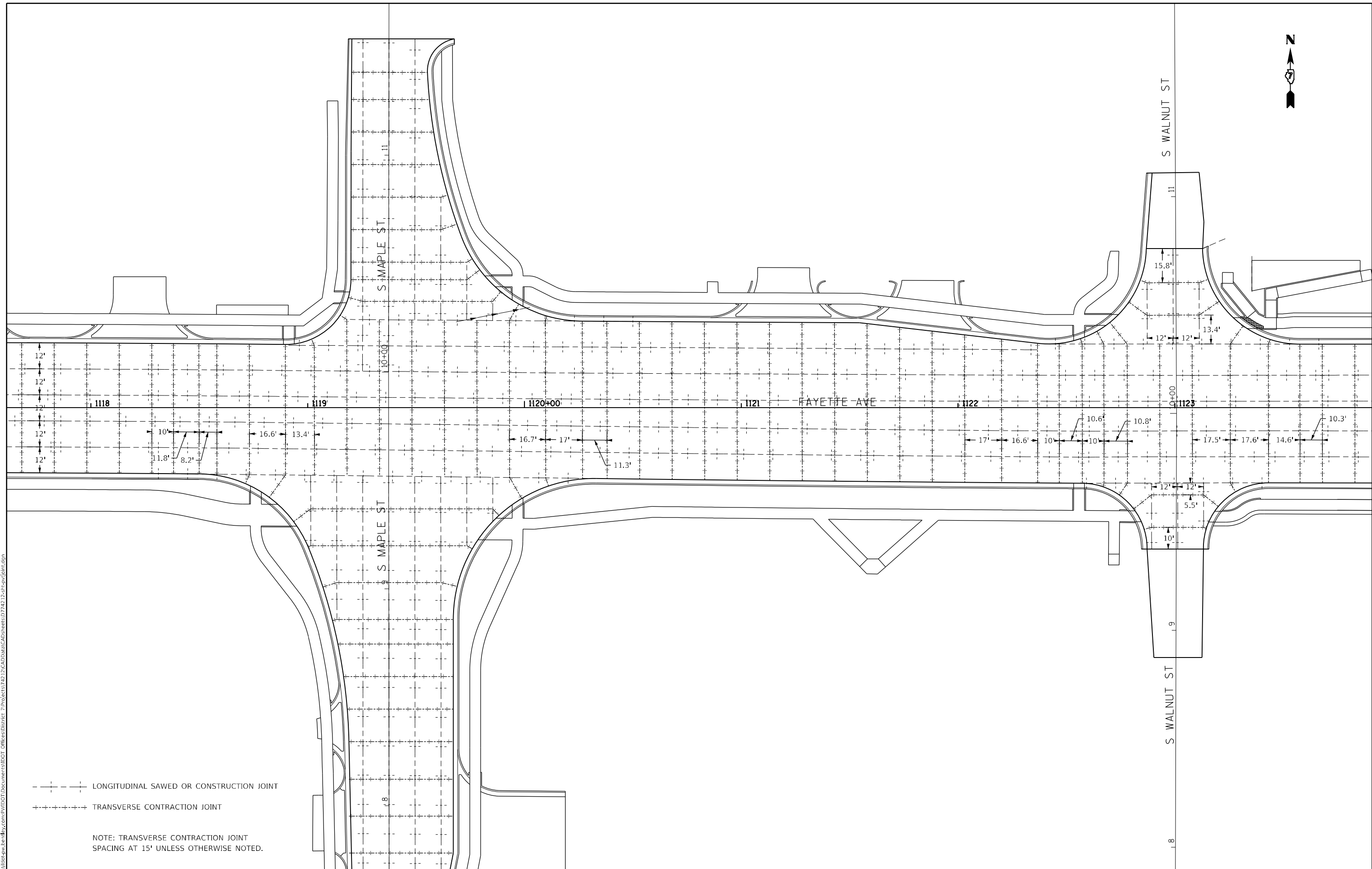
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	220
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



- - - - - LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 - - - - - TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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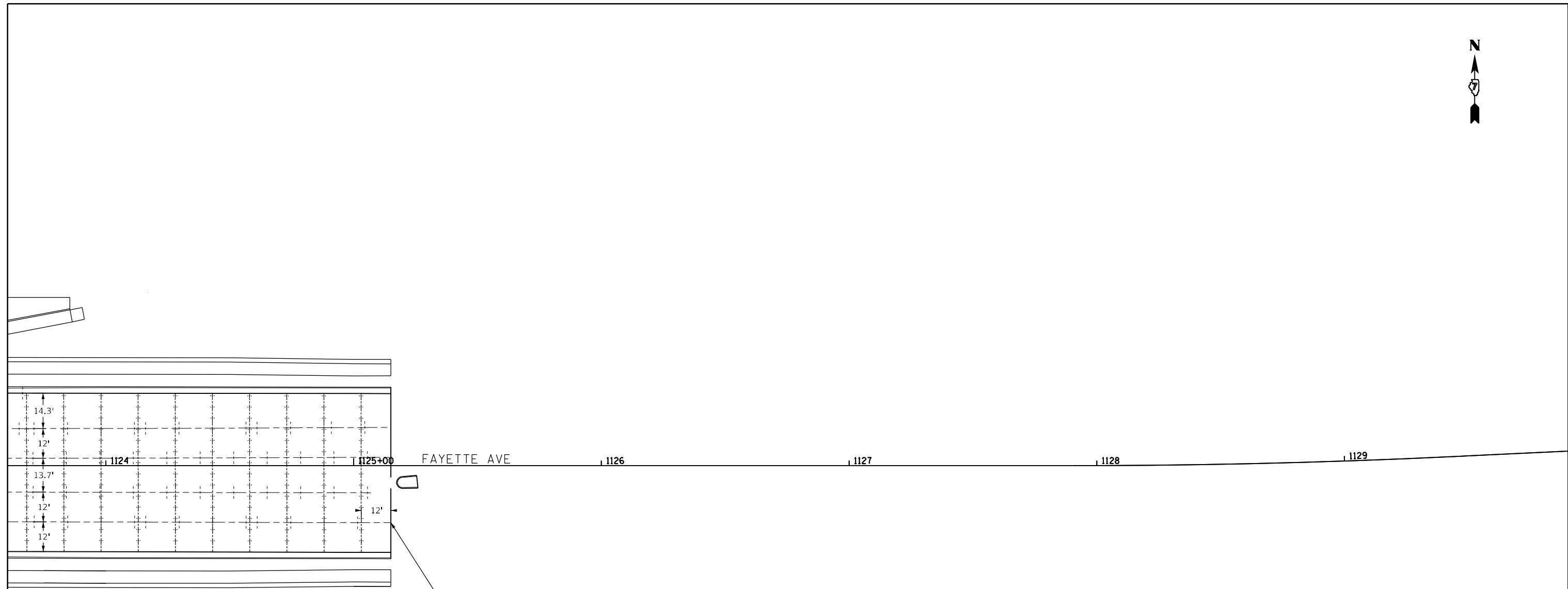
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PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 95	SECTION (182)R	COUNTY Effingham	TOTAL SHEETS 385	SHEET NO. 221
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



TRANSVERSE EXPANSION JOINT WITH DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

---+---+---+ LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 +---+---+---+ TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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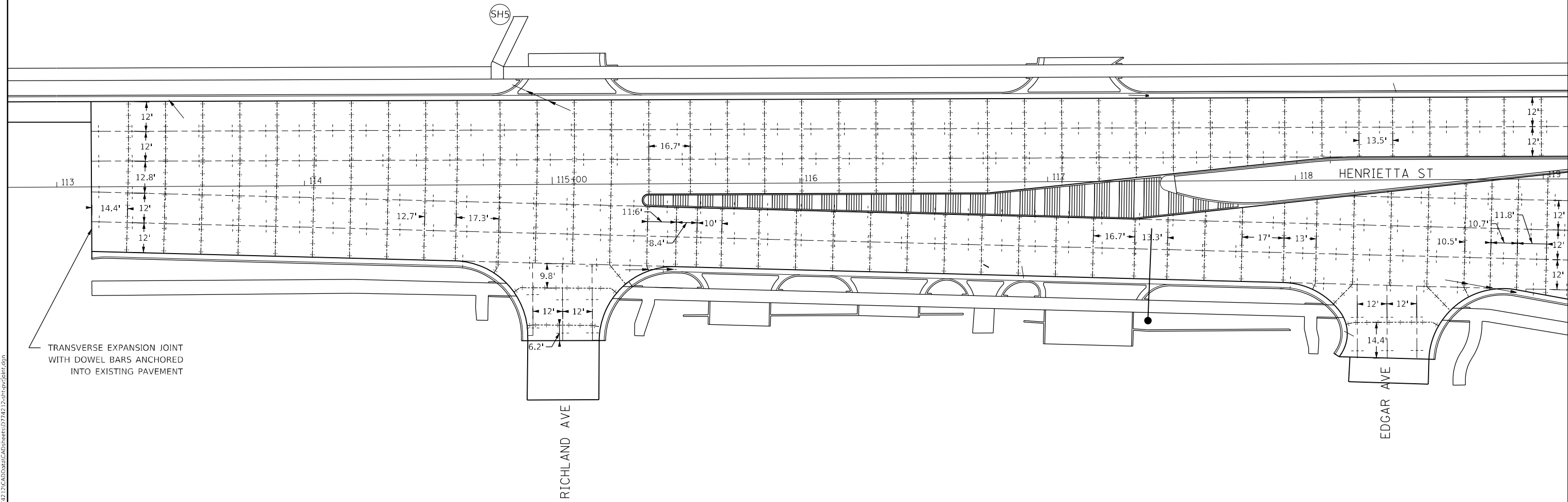
USER NAME = Mona.Steffen	DESIGNED -	REVISED -
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PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

JOINTING DETAIL, FAYETTE AVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	222
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74212	



---+---+---+ LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 -+---+---+---+ TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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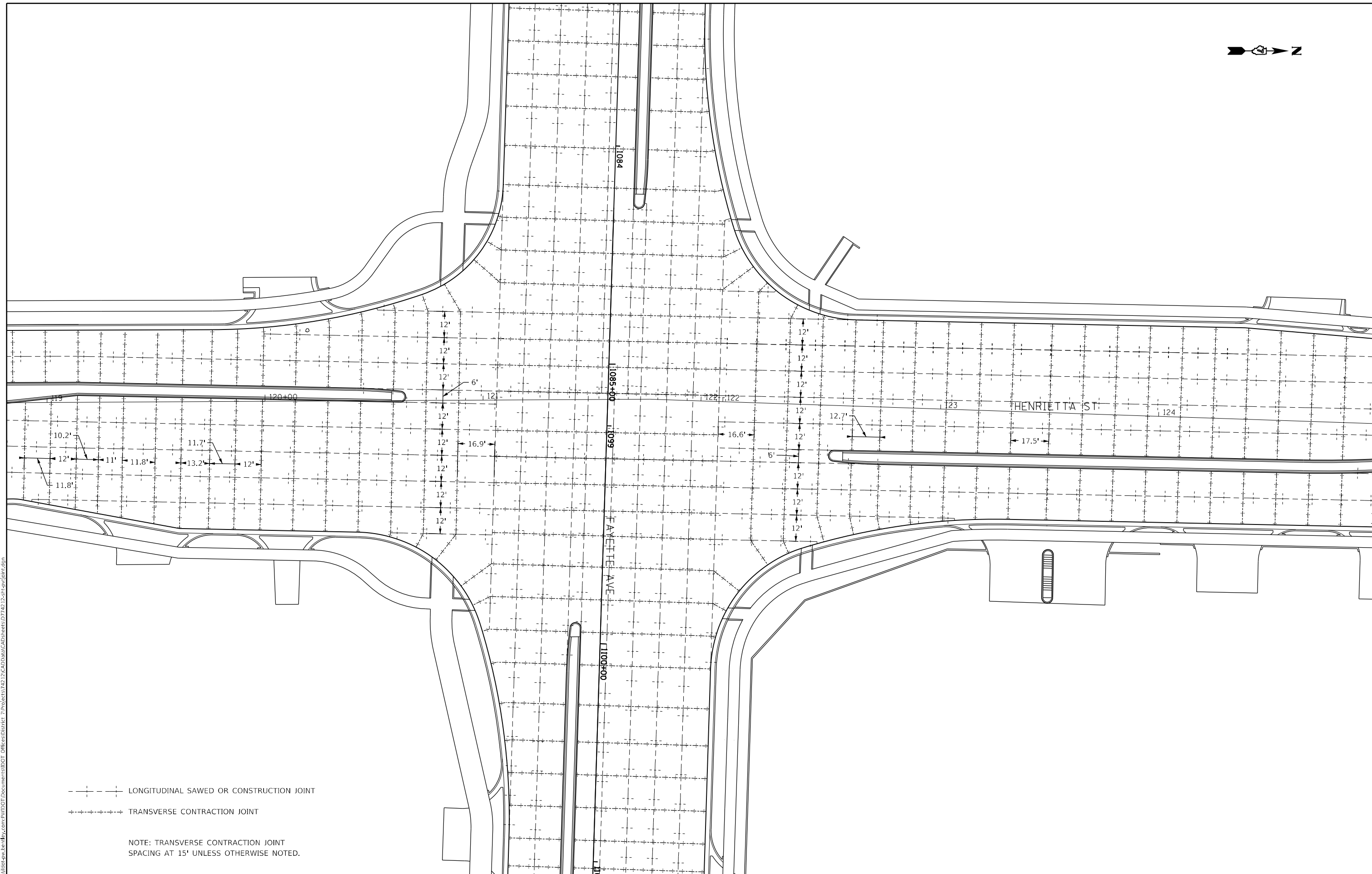
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

JOINTING DETAIL, HENRIETTA ST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	223
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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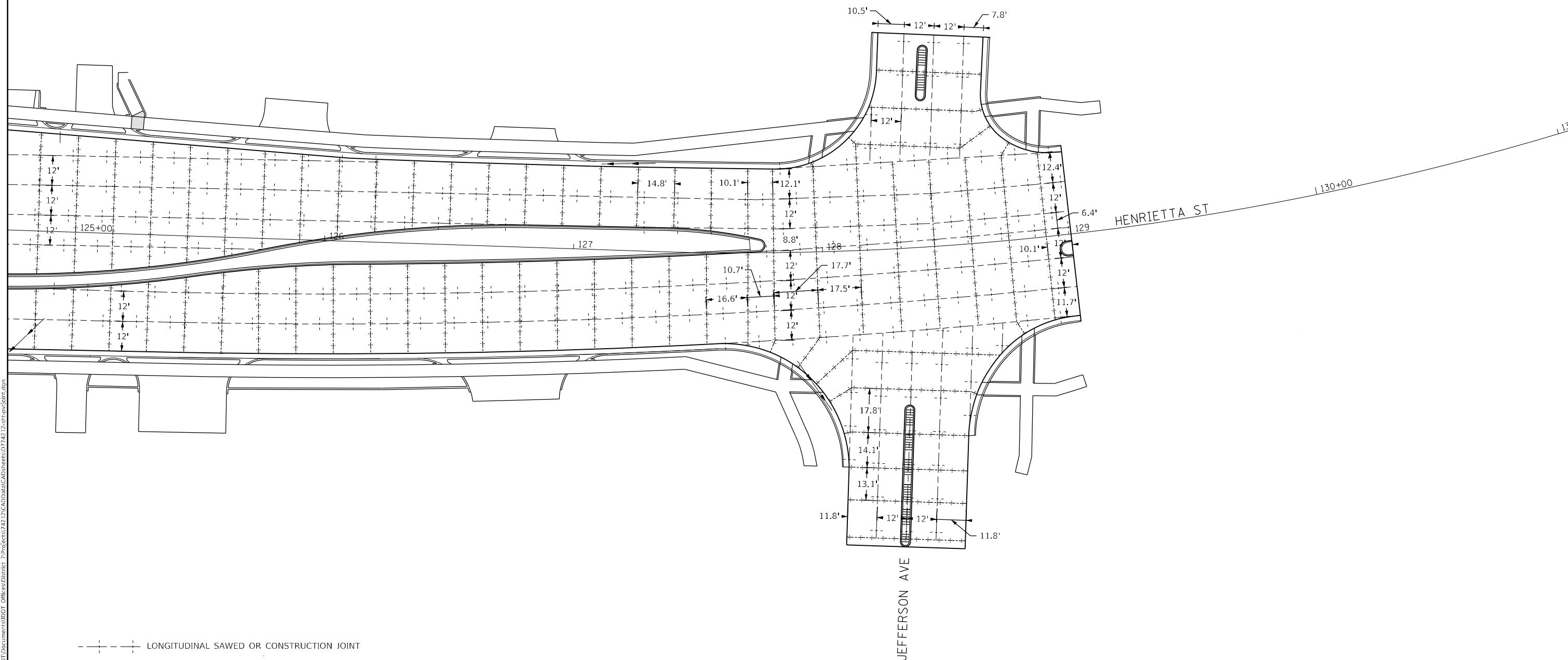
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINTING DETAIL, HENRIETTA ST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	224
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

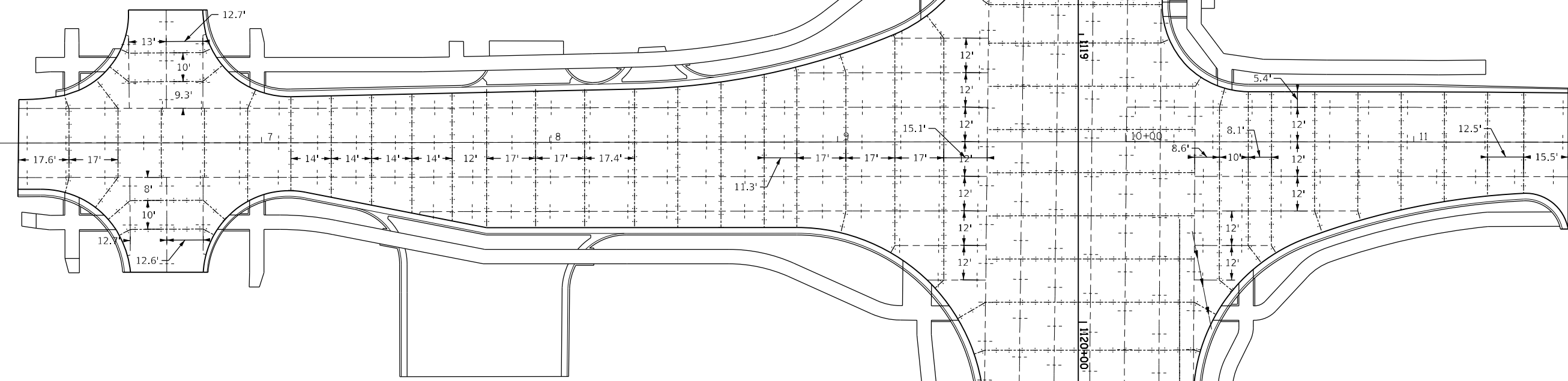
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

JOINTING DETAIL, HENRIETTA ST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	225
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SAWED OR CONSTRUCTION JOINT
 TRANSVERSE CONTRACTION JOINT

NOTE: TRANSVERSE CONTRACTION JOINT SPACING AT 15' UNLESS OTHERWISE NOTED.

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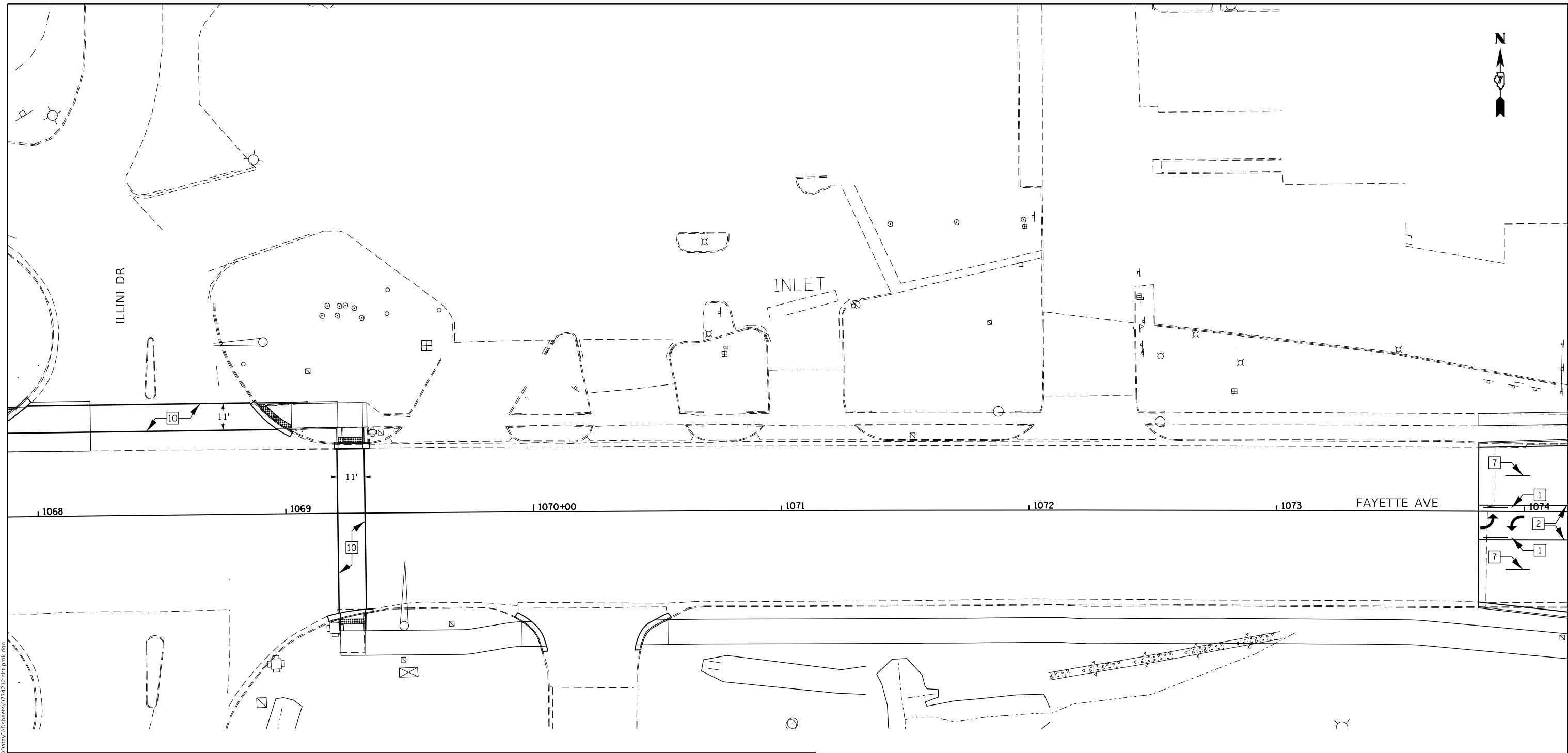
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

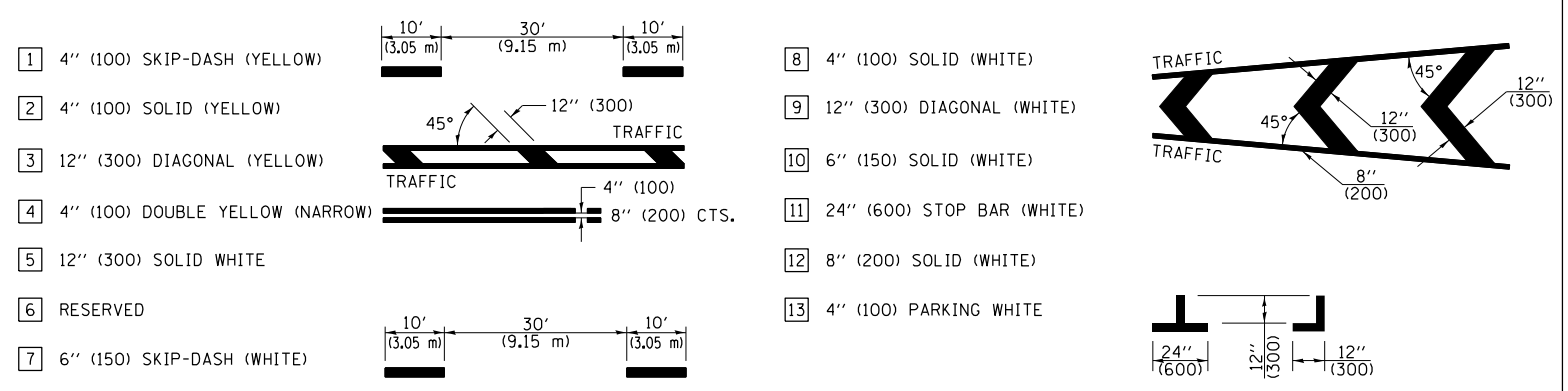
JOINTING DETAIL, MAPLE ST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	226
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND



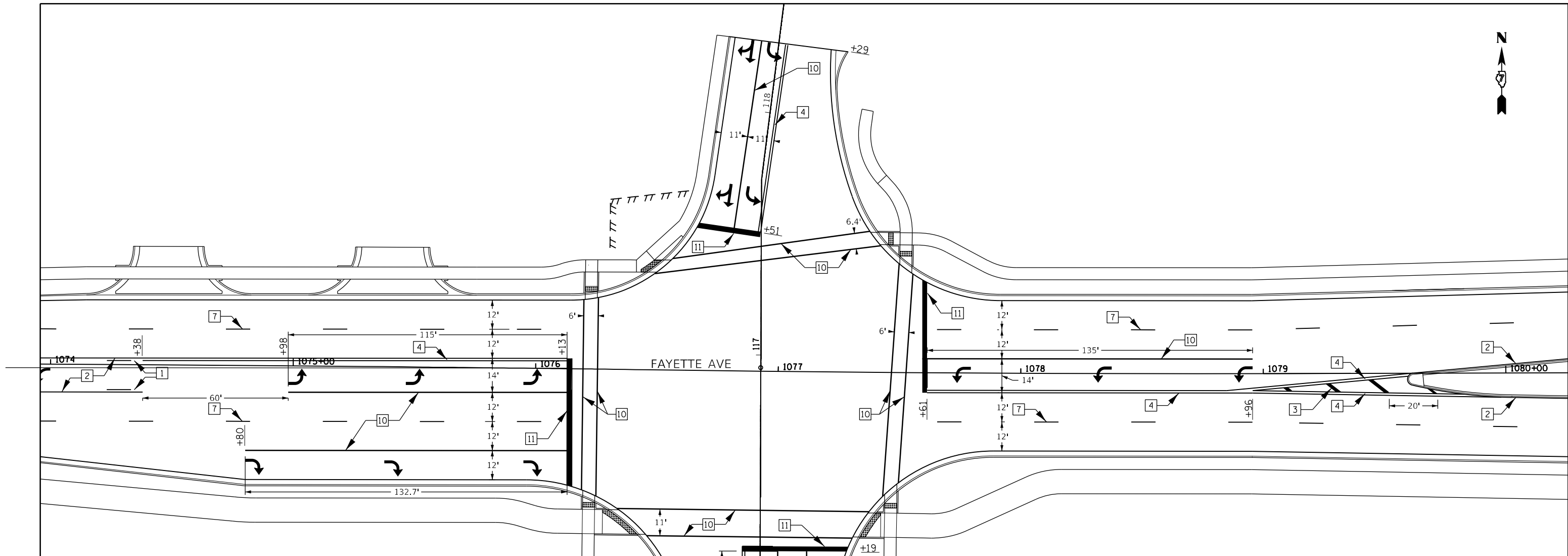
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

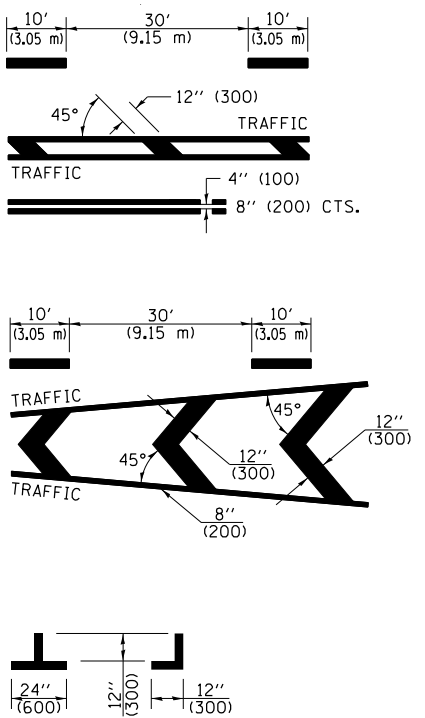
FAYETTE AVE PAVEMENT MARKING DETAILS
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	227
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE PAVEMENT MARKING DETAILS

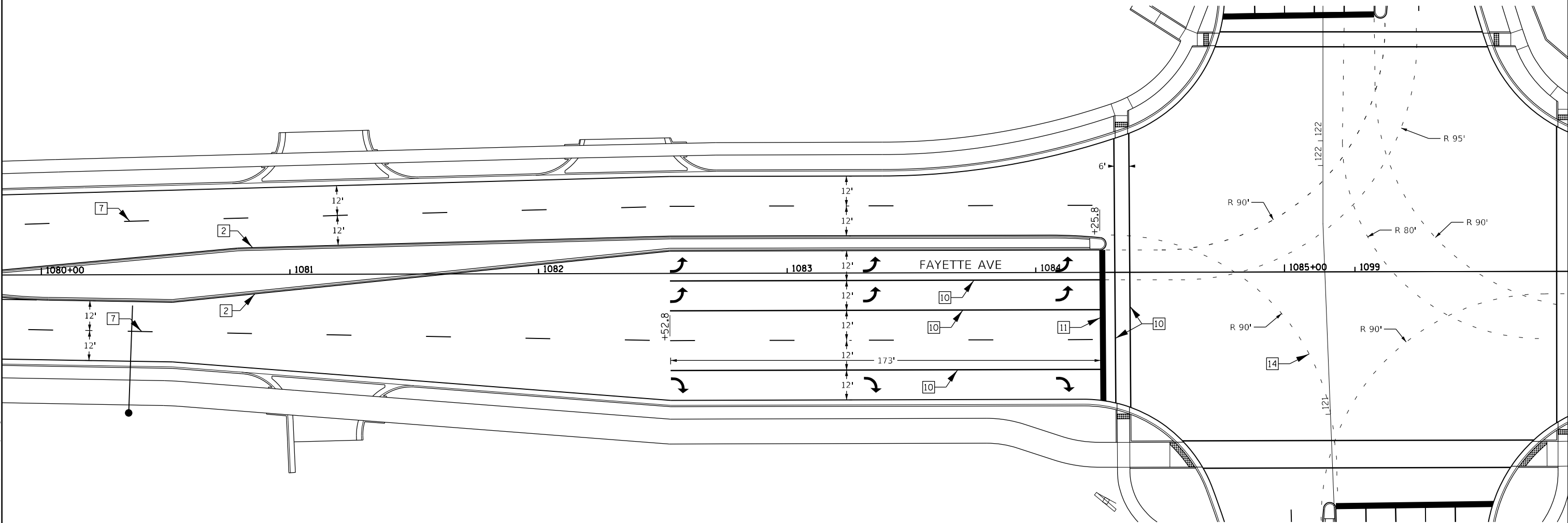
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	228
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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 PLOT DATE: 10/21/2022

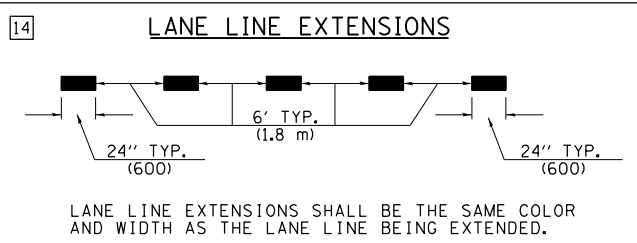


HENRIETTA ST



PAVEMENT MARKING LEGEND

- | | | | |
|-----------------------------------|--|-------------------------------|--|
| 1 4" (100) SKIP-DASH (YELLOW) | | 8 4" (100) SOLID (WHITE) | |
| 2 4" (100) SOLID (YELLOW) | | 9 12" (300) DIAGONAL (WHITE) | |
| 3 12" (300) DIAGONAL (YELLOW) | | 10 6" (150) SOLID (WHITE) | |
| 4 4" (100) DOUBLE YELLOW (NARROW) | | 11 24" (600) STOP BAR (WHITE) | |
| 5 12" (300) SOLID WHITE | | 12 8" (200) SOLID (WHITE) | |
| 6 RESERVED | | 13 4" (100) PARKING WHITE | |
| 7 6" (150) SKIP-DASH (WHITE) | | | |



MODEL: Default
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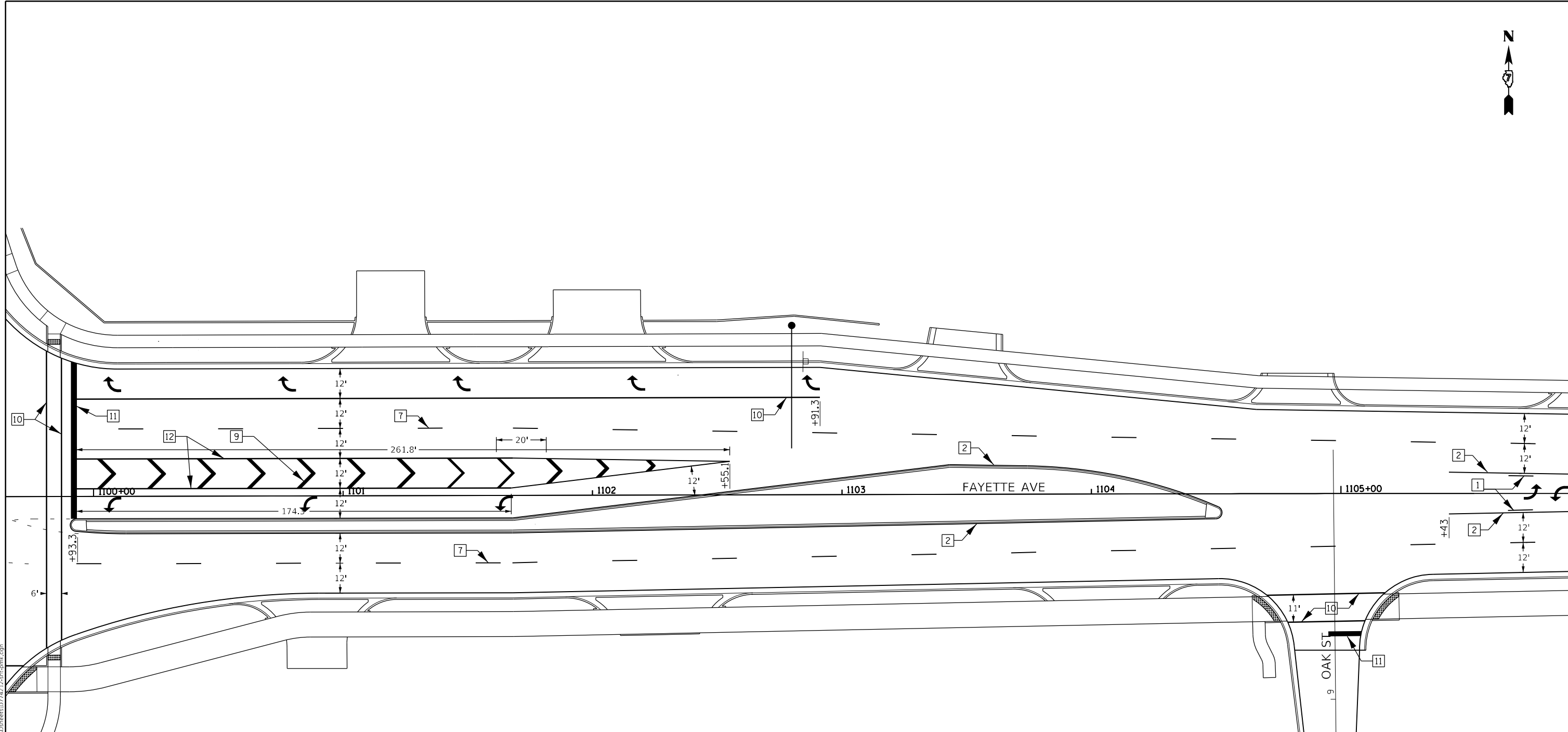
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

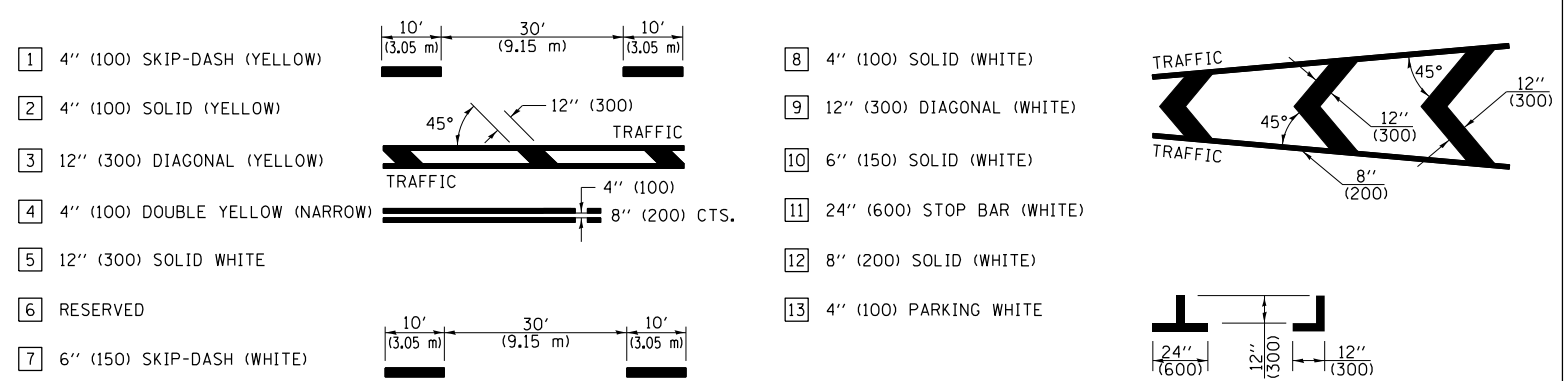
FAYETTE AVE PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	229
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND



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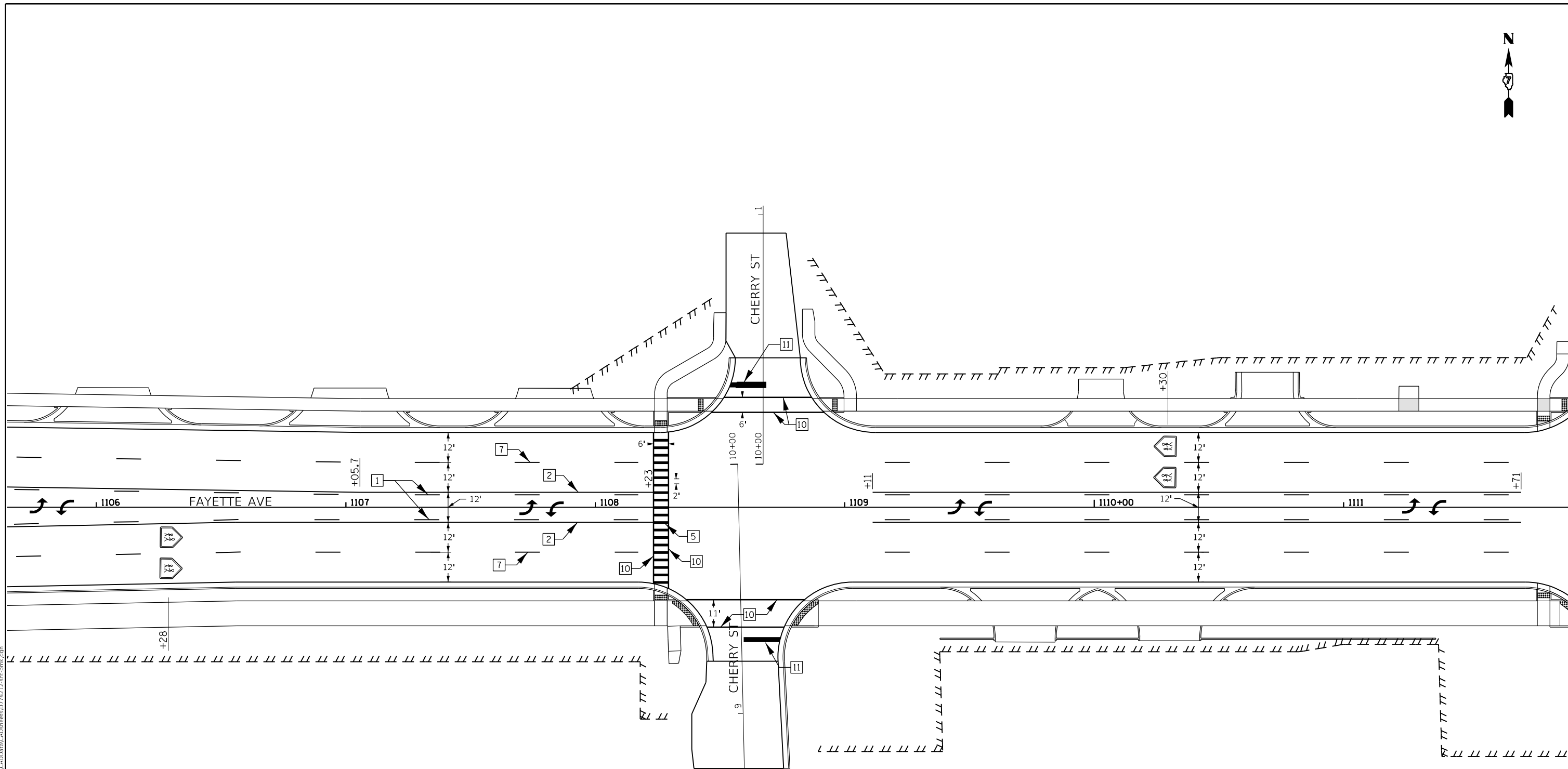
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE PAVEMENT MARKING DETAILS

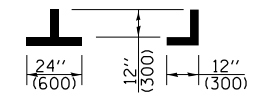
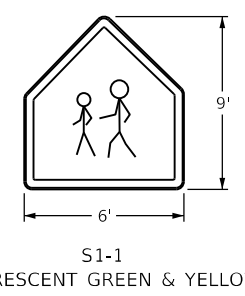
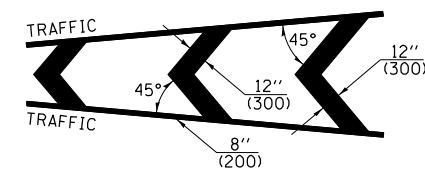
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	230
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | |
|---|---------------------------------|--|----|----------------------------|--|
| 1 | 4" (100) SKIP-DASH (YELLOW) | | 8 | 4" (100) SOLID (WHITE) | |
| 2 | 4" (100) SOLID (YELLOW) | | 9 | 12" (300) DIAGONAL (WHITE) | |
| 3 | 12" (300) DIAGONAL (YELLOW) | | 10 | 6" (150) SOLID (WHITE) | |
| 4 | 4" (100) DOUBLE YELLOW (NARROW) | | 11 | 24" (600) STOP BAR (WHITE) | |
| 5 | 12" (300) SOLID WHITE | | 12 | 8" (200) SOLID (WHITE) | |
| 6 | RESERVED | | 13 | 4" (100) PARKING WHITE | |
| 7 | 6" (150) SKIP-DASH (WHITE) | | | | |



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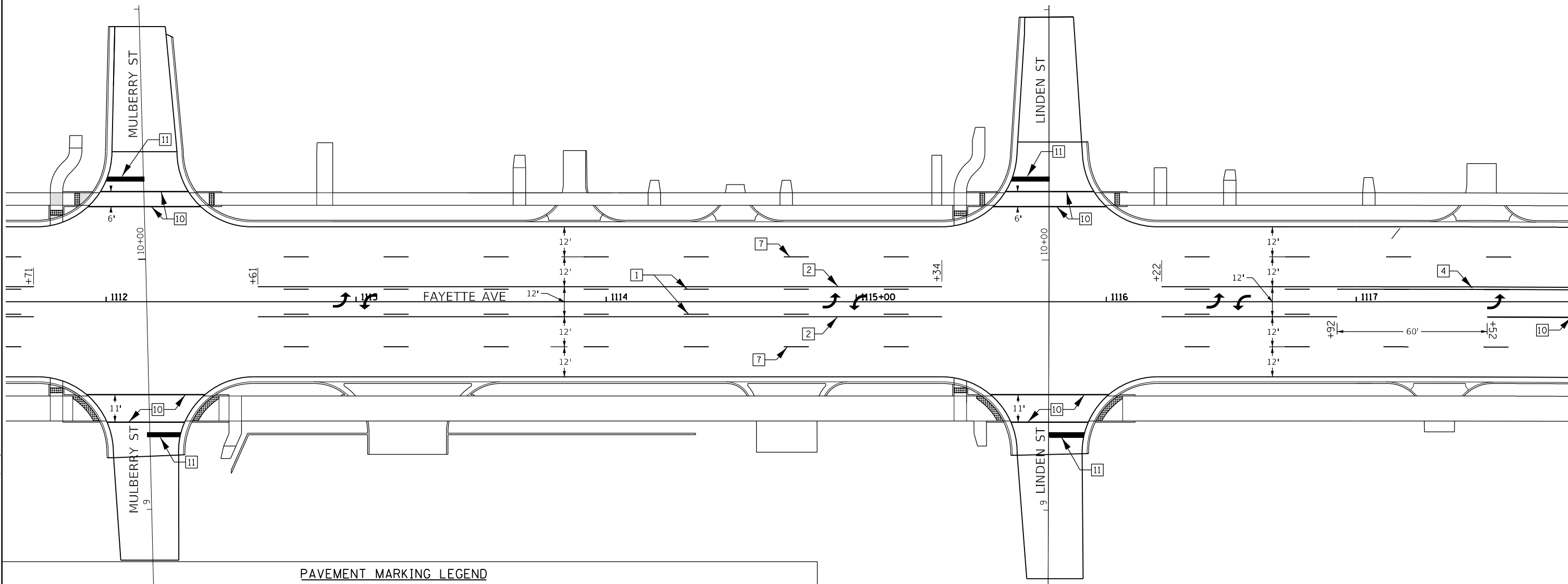
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

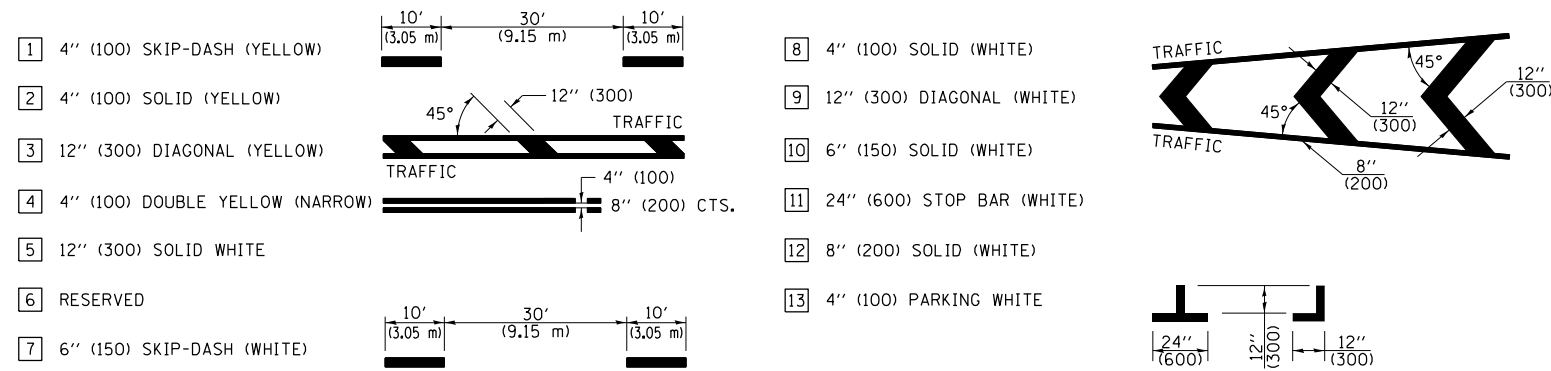
FAYETTE AVE PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	231
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND



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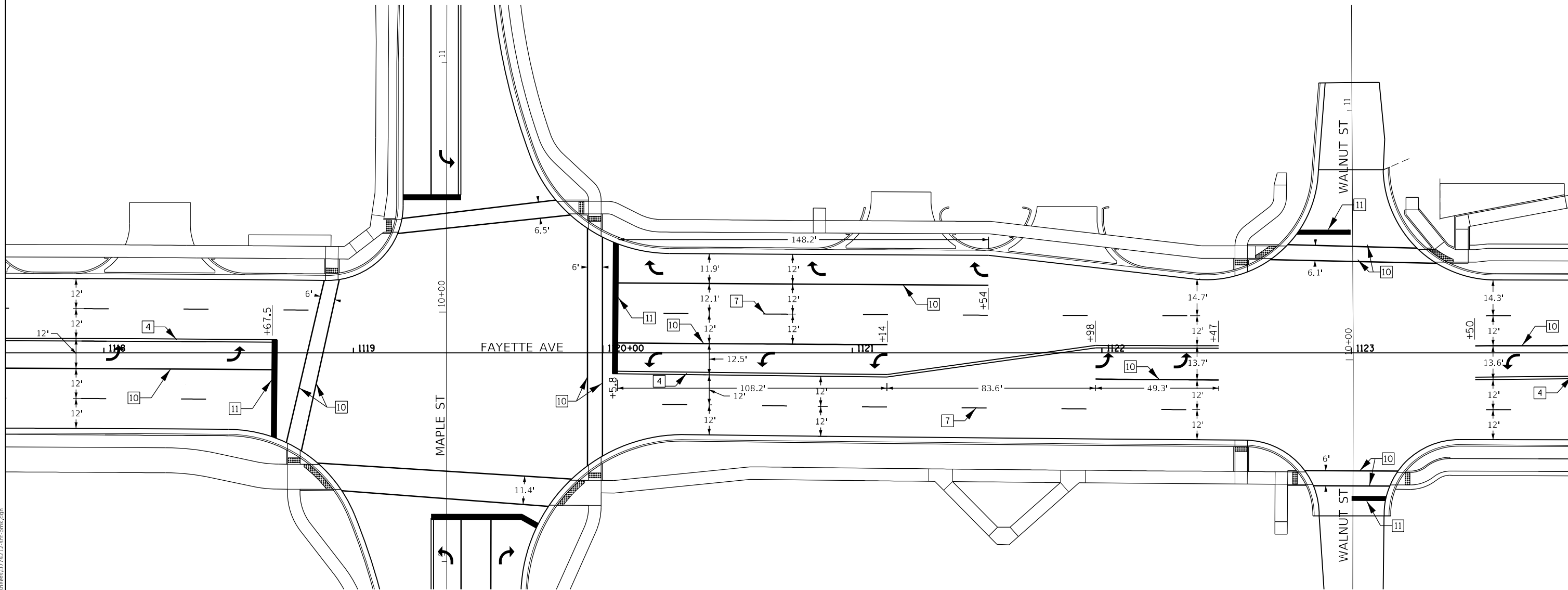
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

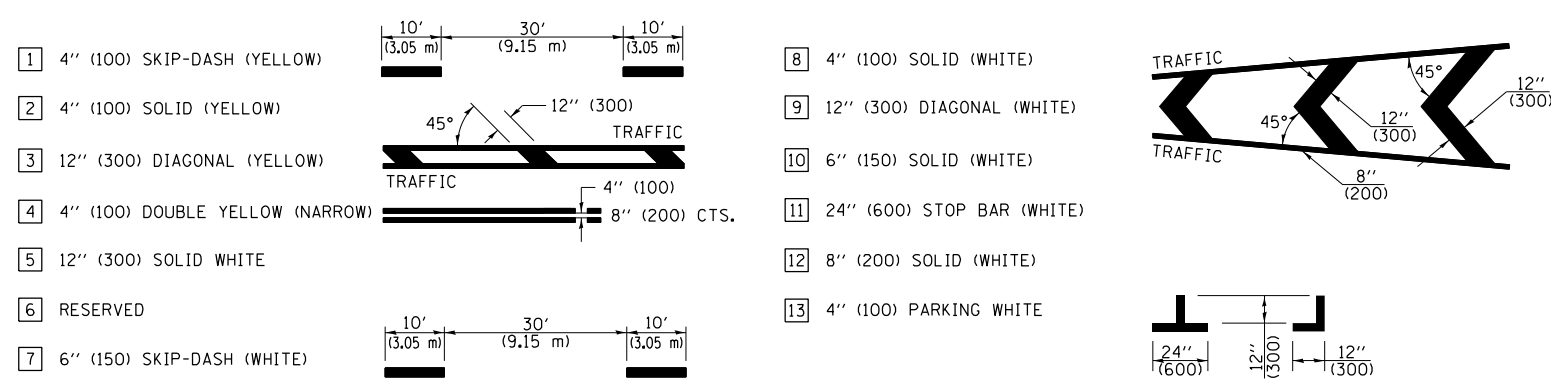
FAYETTE AVE PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	232
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND



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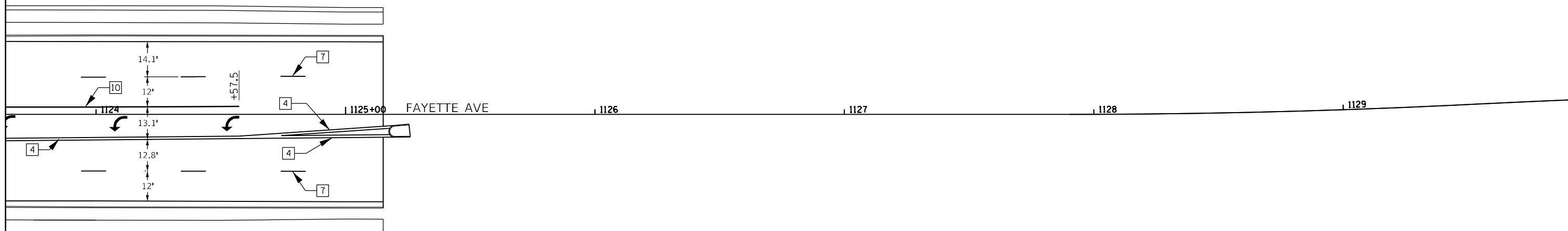
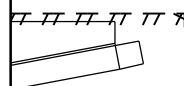
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

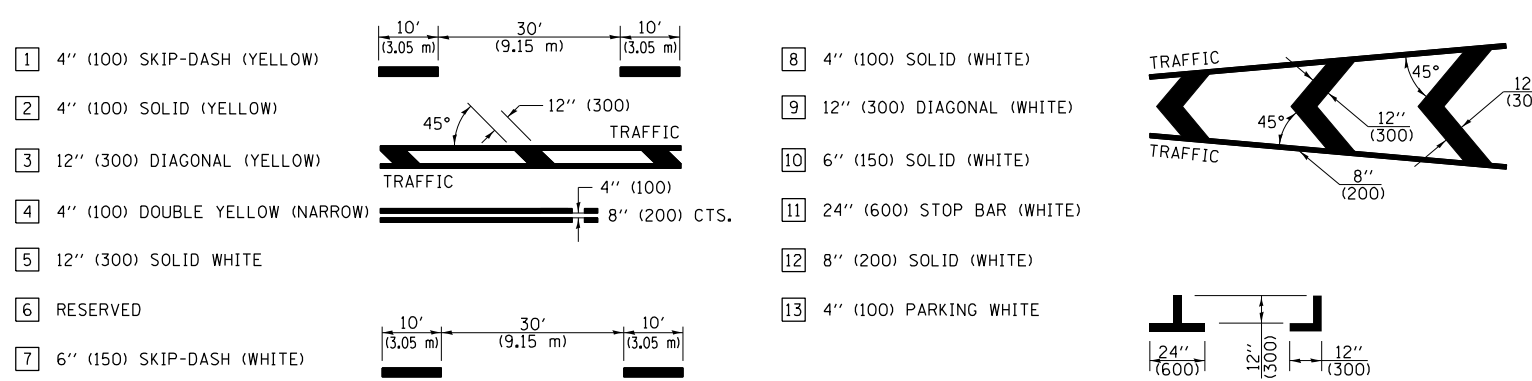
FAYETTE AVE PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	233
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND



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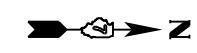
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

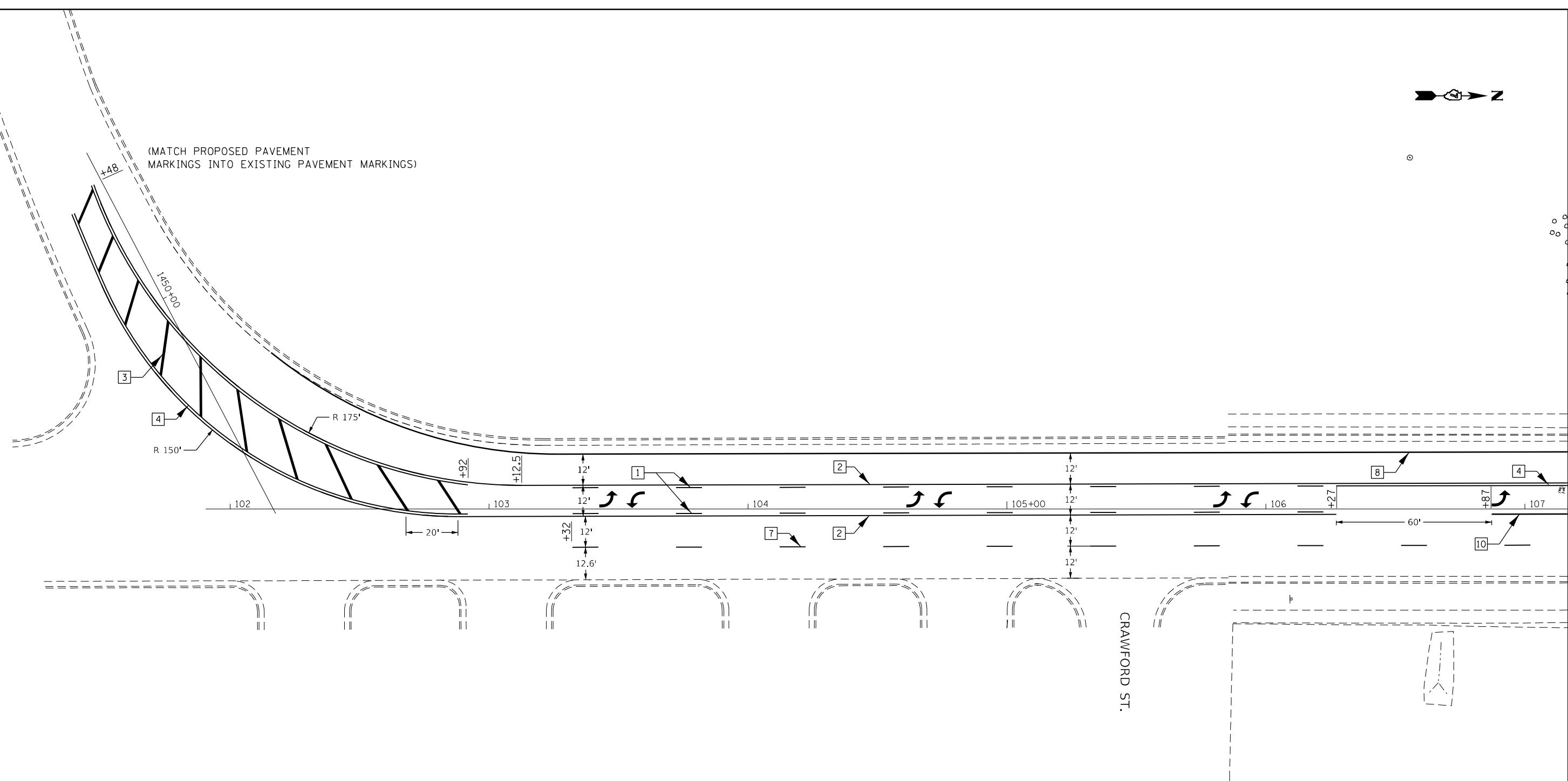
FAYETTE AVE PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	234
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



(MATCH PROPOSED PAVEMENT MARKINGS INTO EXISTING PAVEMENT MARKINGS)



PAVEMENT MARKING LEGEND

1	4" (100) SKIP-DASH (YELLOW)		8	4" (100) SOLID (WHITE)	
2	4" (100) SOLID (YELLOW)		9	12" (300) DIAGONAL (WHITE)	
3	12" (300) DIAGONAL (YELLOW)		10	6" (150) SOLID (WHITE)	
4	4" (100) DOUBLE YELLOW (NARROW)		11	24" (600) STOP BAR (WHITE)	
5	12" (300) SOLID WHITE		12	8" (200) SOLID (WHITE)	
6	RESERVED		13	4" (100) PARKING WHITE	
7	6" (150) SKIP-DASH (WHITE)				

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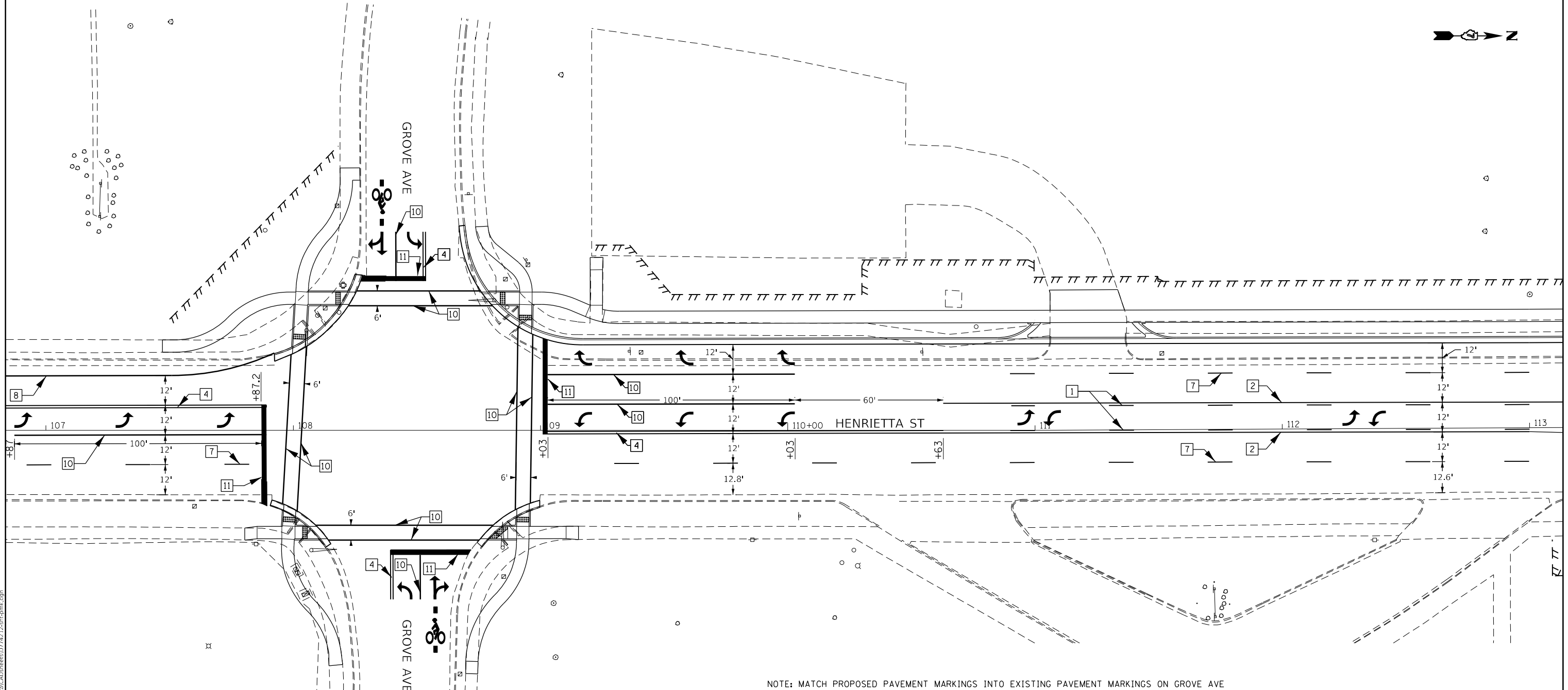
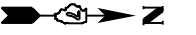
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DRAWN -	REVISIONS -	REVISIONS -	
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PLOT DATE = 10/21/2022	DATE -	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HENRIETTA ST PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

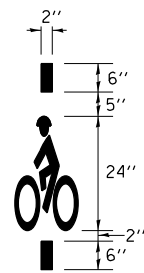
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95	(18Z)R	Effingham	385	235
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



NOTE: MATCH PROPOSED PAVEMENT MARKINGS INTO EXISTING PAVEMENT MARKINGS ON GROVE AVE

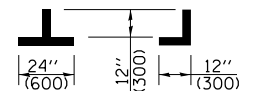
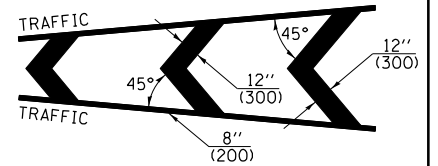
NOTE:
1. BICYCLE DETECTOR MARKING IS TO BE PLACED UPON THE CORNER OF DETECTOR LOOPS, WHEREVER APPLICABLE. CONTRACTOR TO COORDINATE WITH THE ENGINEER ON FINAL PLACEMENT.

BICYCLE DETECTOR MARKING



PAVEMENT MARKING LEGEND

- | | | |
|-----------------------------------|--|-------------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | | 8 4" (100) SOLID (WHITE) |
| 2 4" (100) SOLID (YELLOW) | | 9 12" (300) DIAGONAL (WHITE) |
| 3 12" (300) DIAGONAL (YELLOW) | | 10 6" (150) SOLID (WHITE) |
| 4 4" (100) DOUBLE YELLOW (NARROW) | | 11 24" (600) STOP BAR (WHITE) |
| 5 12" (300) SOLID WHITE | | 12 8" (200) SOLID (WHITE) |
| 6 RESERVED | | 13 4" (100) PARKING WHITE |
| 7 6" (150) SKIP-DASH (WHITE) | | |



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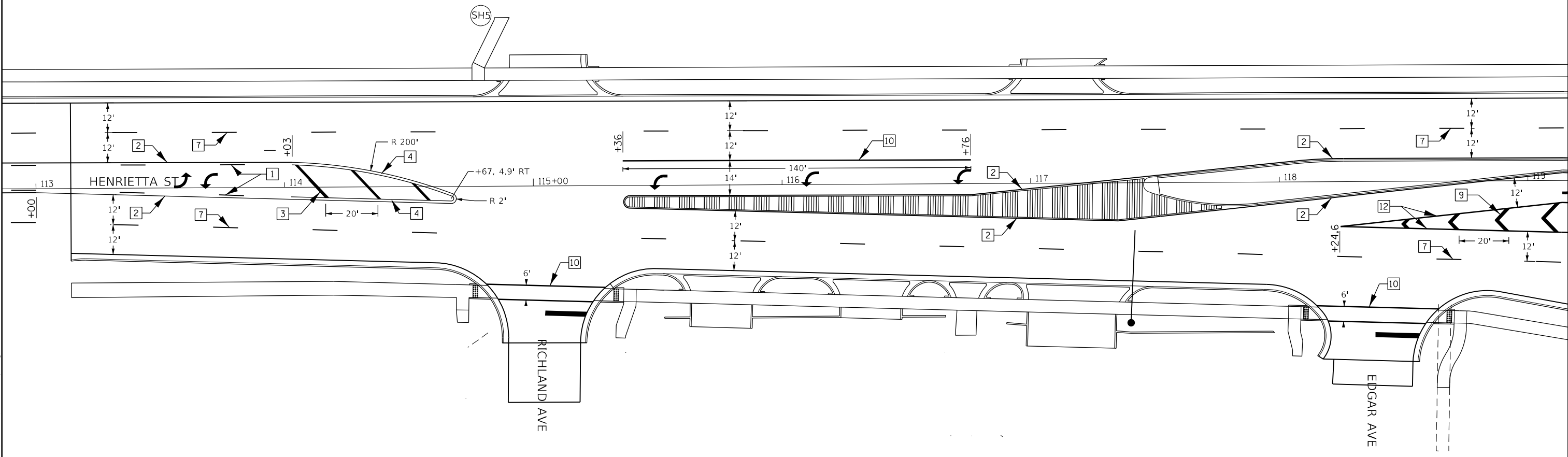
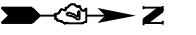
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

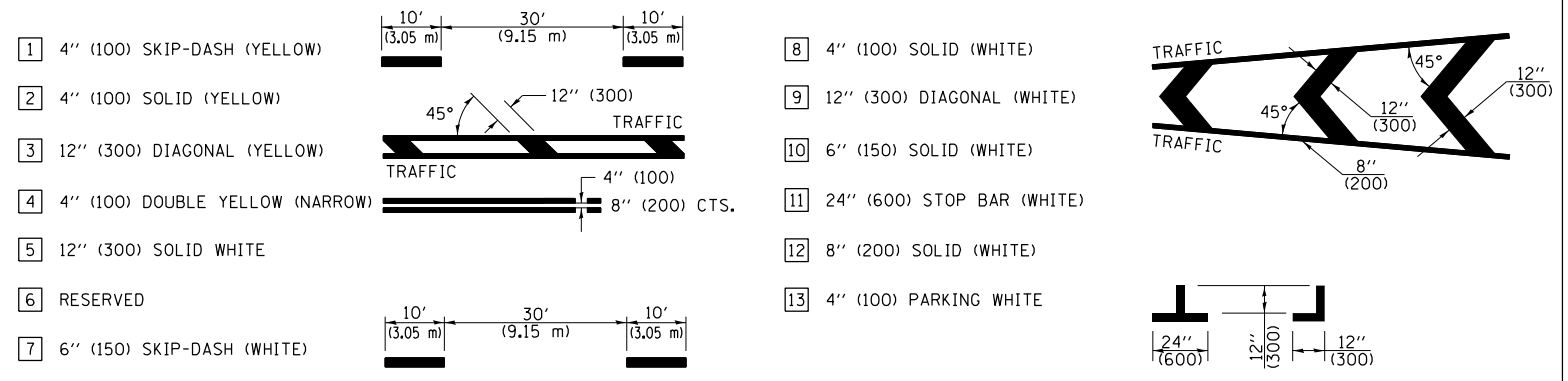
HENRIETTA ST PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	236
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND



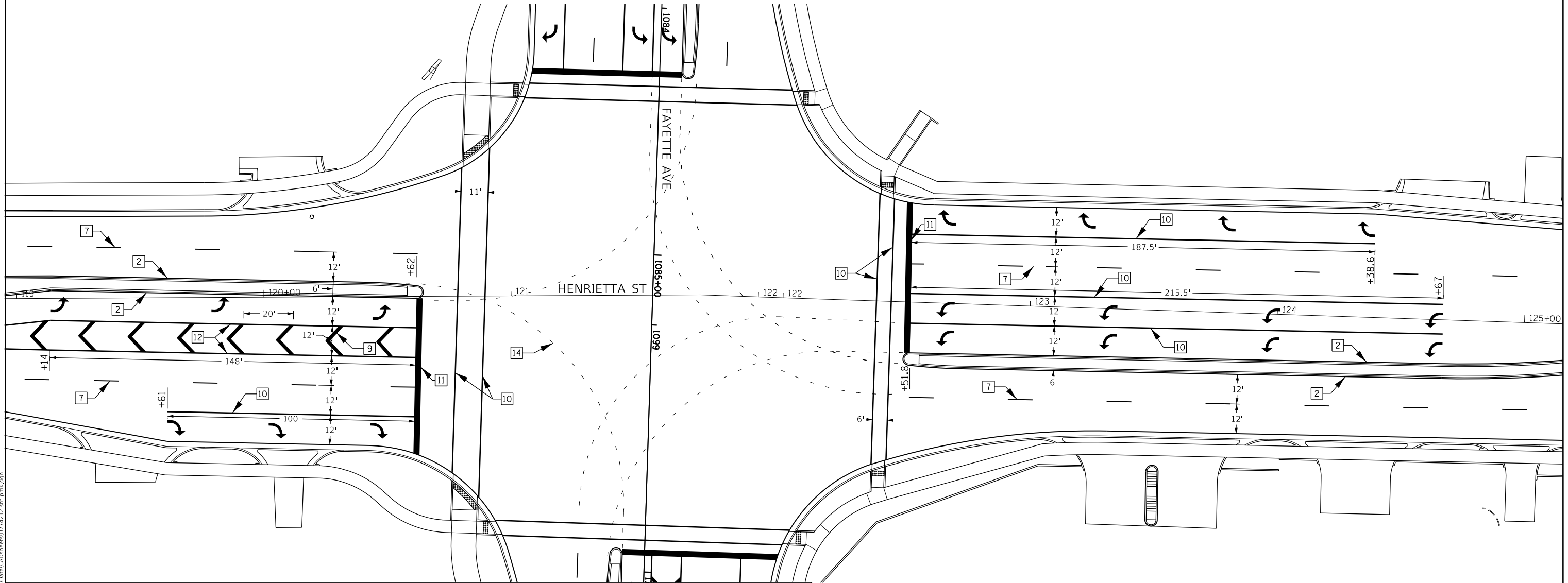
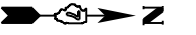
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PLOT DATE = 10/21/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

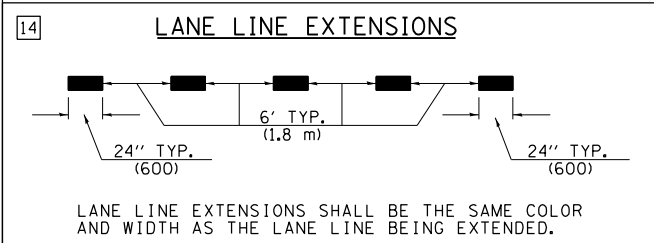
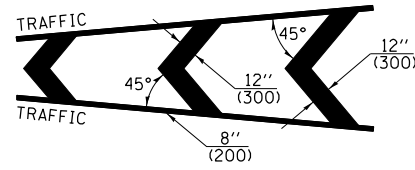
HENRIETTA ST PAVEMENT MARKING DETAILS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	237
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | |
|-----------------------------------|--|-------------------------------|--|
| 1 4" (100) SKIP-DASH (YELLOW) | | 8 4" (100) SOLID (WHITE) | |
| 2 4" (100) SOLID (YELLOW) | | 9 12" (300) DIAGONAL (WHITE) | |
| 3 12" (300) DIAGONAL (YELLOW) | | 10 6" (150) SOLID (WHITE) | |
| 4 4" (100) DOUBLE YELLOW (NARROW) | | 11 24" (600) STOP BAR (WHITE) | |
| 5 12" (300) SOLID WHITE | | 12 8" (200) SOLID (WHITE) | |
| 6 RESERVED | | 13 4" (100) PARKING WHITE | |
| 7 6" (150) SKIP-DASH (WHITE) | | | |



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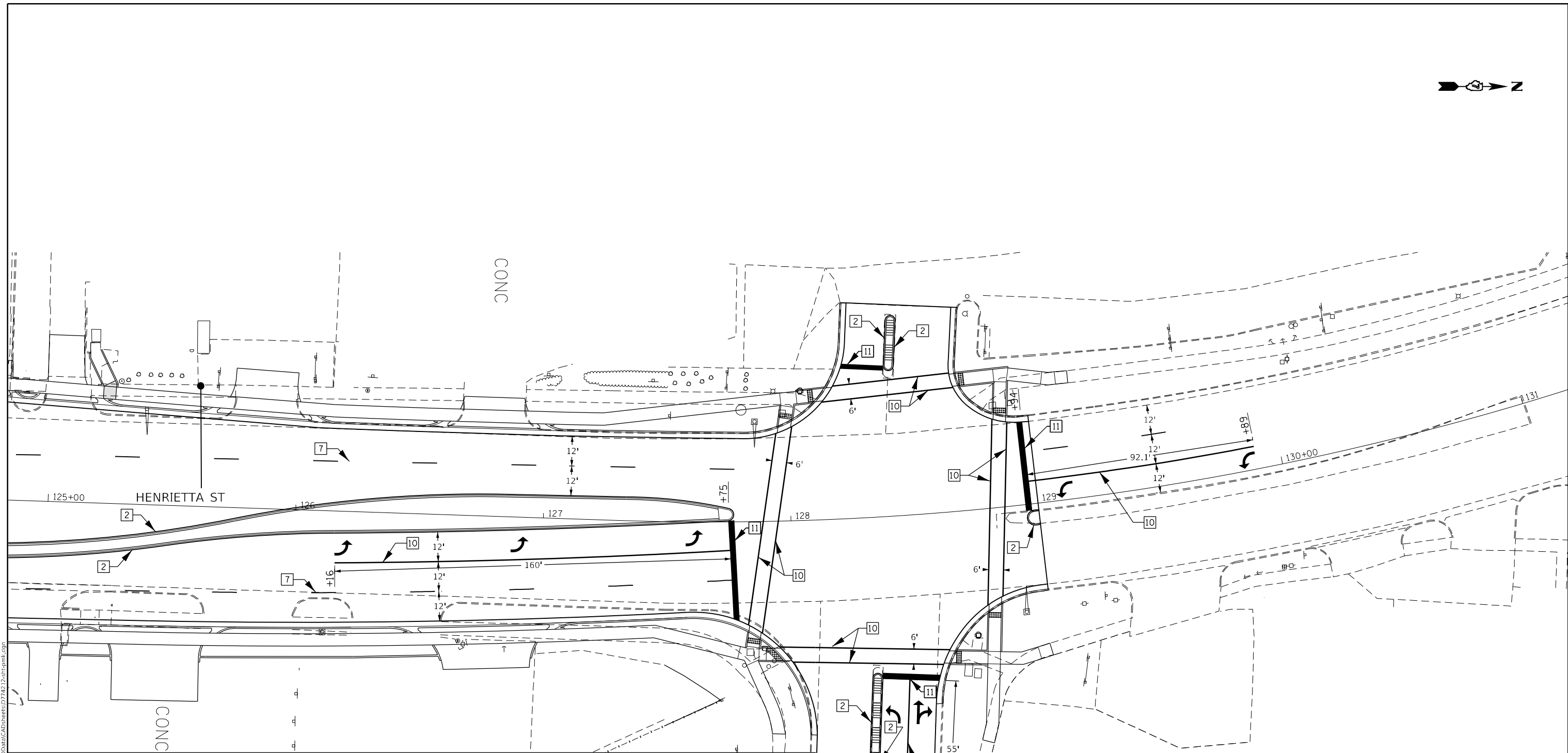
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HENRIETTA ST PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	238
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



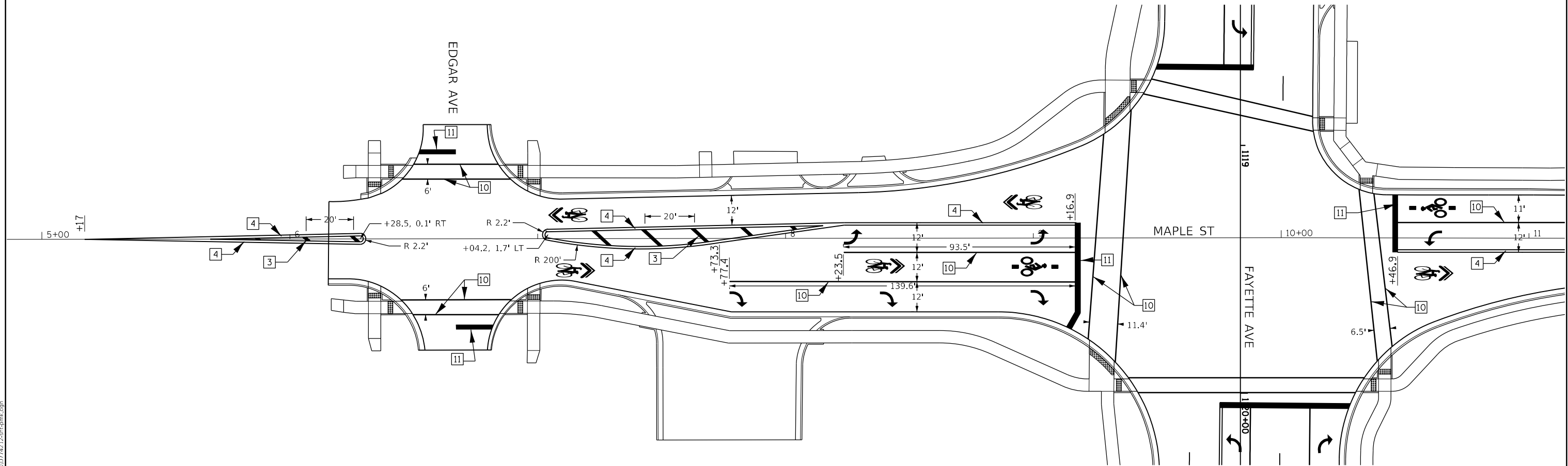
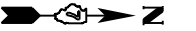
PAVEMENT MARKING LEGEND

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|---|---------------------------------|--|----|----------------------------|--|
| 1 | 4" (100) SKIP-DASH (YELLOW) | | 8 | 4" (100) SOLID (WHITE) | |
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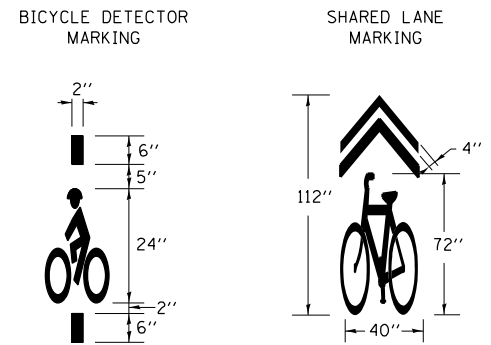
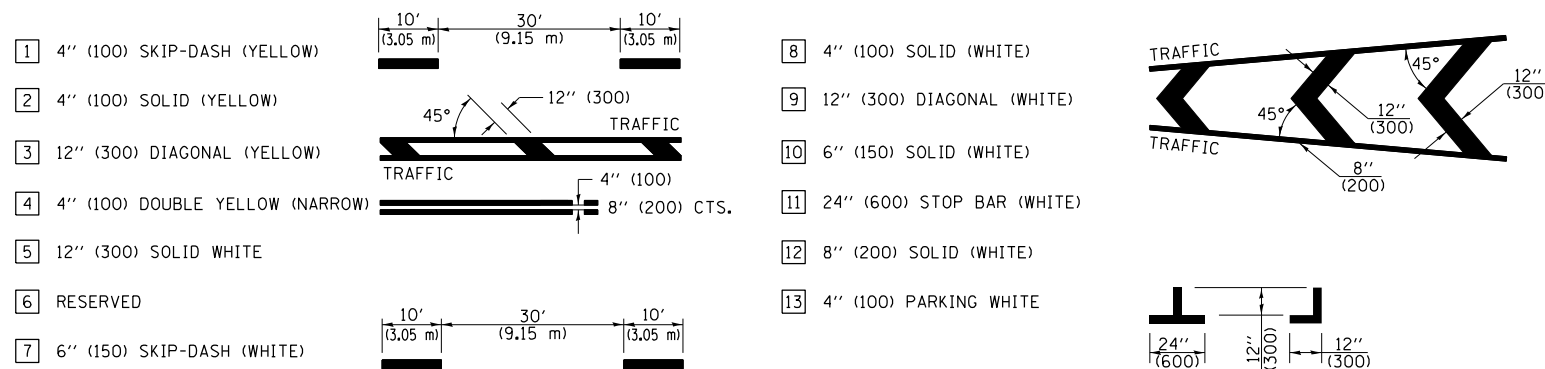
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HENRIETTA ST PAVEMENT MARKING DETAILS

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PAVEMENT MARKING LEGEND



NOTE:
 1. BICYCLE DETECTOR MARKING PLACEMENT IS TO BE PLACED UPON THE CORNER OF DETECTOR LOOPS, WHEREVER APPLICABLE. CONTRACTOR TO COORDINATE WITH THE ENGINEER ON FINAL PLACEMENT.
 2. THE SHARED LANE MARKING SHOULD BE AT LEAST 4 FEET FROM THE FACE OF THE CURB.
 3. THE SHARED LANE MARKING SHOULD BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND SPACED AT INTERVALS NOT GREATER THAN 250 FEET THEREAFTER.

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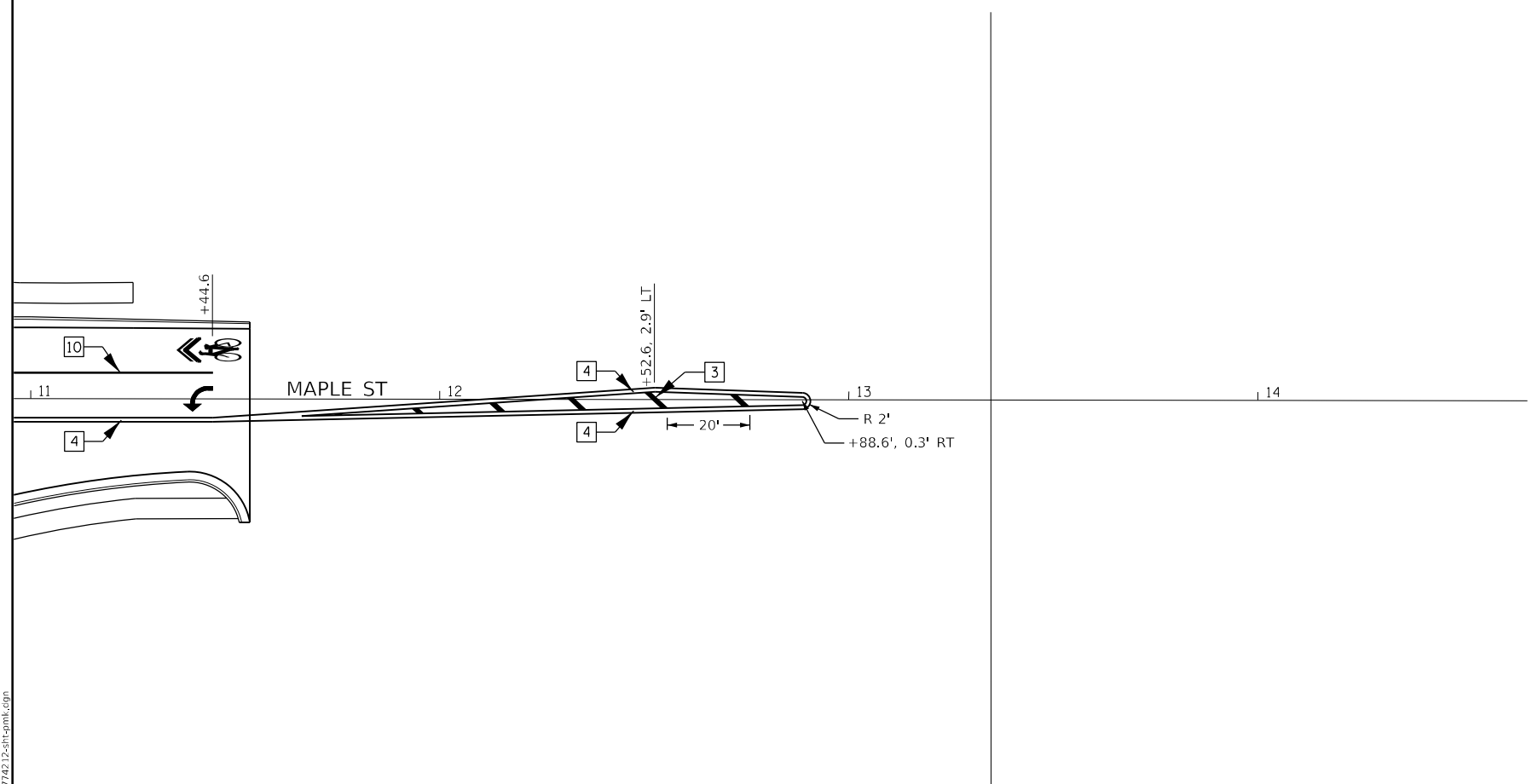
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAPLE ST PAVEMENT MARKING DETAILS

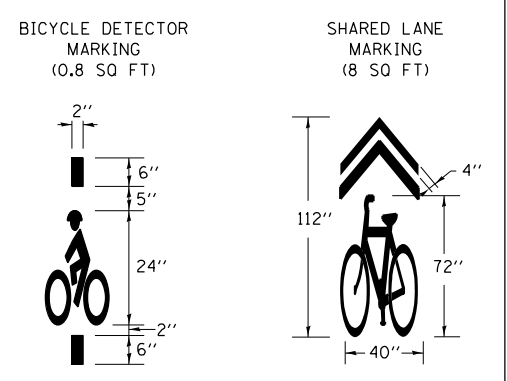
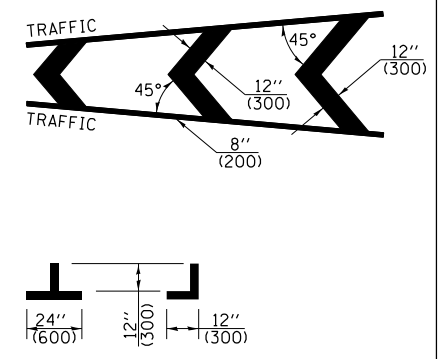
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	240
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | |
|---|---------------------------------|--|----|----------------------------|--|
| 1 | 4" (100) SKIP-DASH (YELLOW) | | 8 | 4" (100) SOLID (WHITE) | |
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- NOTE:**
1. BICYCLE DETECTOR MARKING PLACEMENT IS TO BE PLACED UPON THE CORNER OF DETECTOR LOOPS, WHEREVER APPLICABLE. CONTRACTOR TO COORDINATE WITH THE ENGINEER ON FINAL PLACEMENT.
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 3. THE SHARED LANE MARKING SHOULD BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND SPACED AT INTERVALS NOT GREATER THAN 250 FEET THEREAFTER.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAPLE ST PAVEMENT MARKING DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	241
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF TRAFFIC SIGNAL MODERNIZATION AT 3 SEPARATE INTERSECTIONS ON FAYETTE AVENUE (US RTE 33)- (MAPLE ST, HENRIETTA ST, AND RANEY ST) AND AT 2 SEPARATE INTERSECTIONS ON HENRIETTA ST (JEFFERSON AVE. AND GROVE AVE.) ALL IN EFFINGHAM COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNALS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS PROTION OF THIS PROJECT.

THE EXISTING UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.I.E. AT 1-800-892-0123. THE TRAFFIC SIGNAL UTILITY LINES WILL BE LOCATED BY IDOT, CALL 217-342-3951.

THE TRAFFIC SIGNAL ENGINEER AT THE ILLINOIS DEPARTMENT OF TRANSPORTATON JOSH PORTER SHALL BE NOTIFIED AT 217-342-5677 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT AND 48 HOURS PRIOR TO ANY SIGNAL ADJUSTMENTS.

THE SIZE OF THE CABLE SUPPLIED SHALL BE EQUAL TO OR GREATER THAN THE SIZE OF THE CABLE REQUIRED TO CARRY THE LOAD BETWEEN THE CONTROLLER AND THE SERVICE INSTALLATION.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNALS ARE TURNED ON. THE REPRESENTATIVE SHALL MAKE CERTAIN THAT ALL EQUIPMENT OPERATES TO THE SATISFACTION OF THE ENGINEER.

A 2 FOOT MINIMUM, 6 FOOT DESIRABLE, HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF CURB TO THE EDGE OF HANDHOLES, JUNCTION BOXES AND SIGNAL POST FOUNDATIONS. A 5 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF THE CURB TO ALL MAST ARM FOUNDATIONS. CONTROLLER FOUNDATIONS SHALL BE LOCATED AS FAR FROM THE BACK OF THE CURB AS POSSIBLE TO PROTECT THE CONTROLLER CABINET.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE ELECTRICAL WORK PAY ITEM.

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

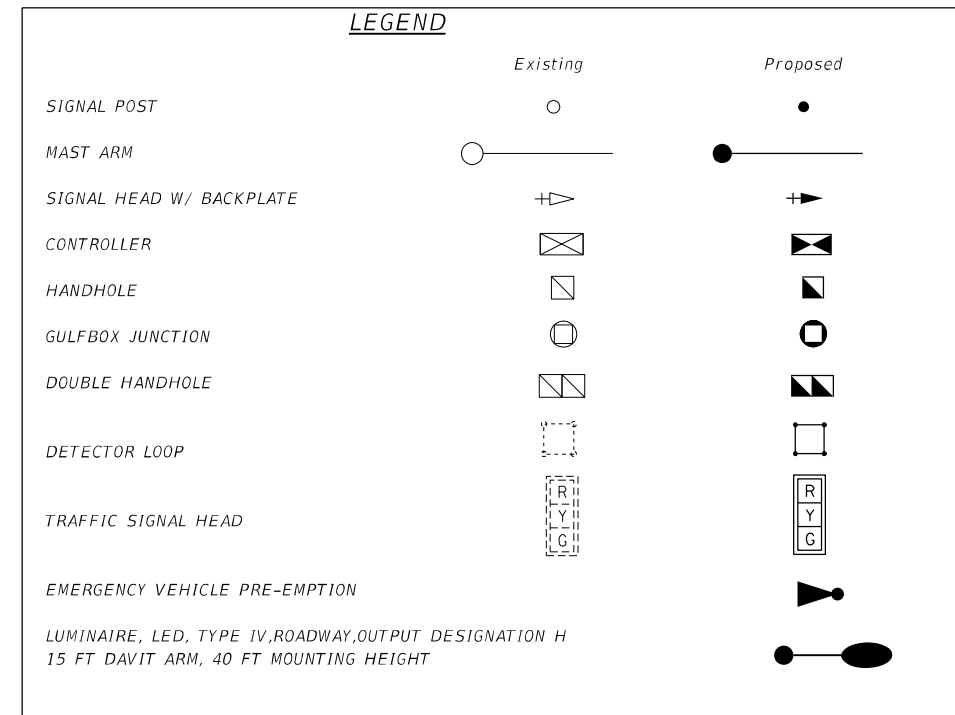
ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE MOUNTED AS TO ALIGN WITH THE CENTER OF THE LANE.

TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION, OR DUAL) MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

THE STATION AND OFFSET SHOWN FOR THE ITEMS TO BE INSTALLED IS THE STATION AND DISTANCE TO THE CENTER OF THE ITEM.

THE EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT AND WIRING WILL BE SUPPLIED BY THE CITY OF EFFINGHAM. THE INSTALLATION WILL BE DONE BY THE CONTRACTOR.



NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS	
		6 X 30		6 X 40			
		DISTANCE FROM CONTROLLER (FT)					
		0	491	0	627	2 TURNS	
		492	982	628	1255	3 TURNS	
0	545	983	1636	1256	2091	4 TURNS	
546	818	1637	2455	2092	3136	5 TURNS	
819	1145	2456	3436			6 TURNS	
1146	1527					7 TURNS	
1528	1964					8 TURNS	
1965	2455					9 TURNS	
2456	3000					10 TURNS	

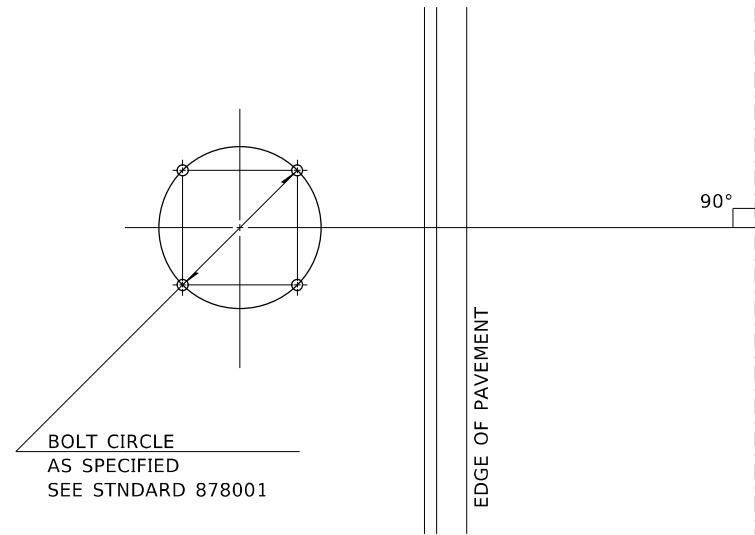
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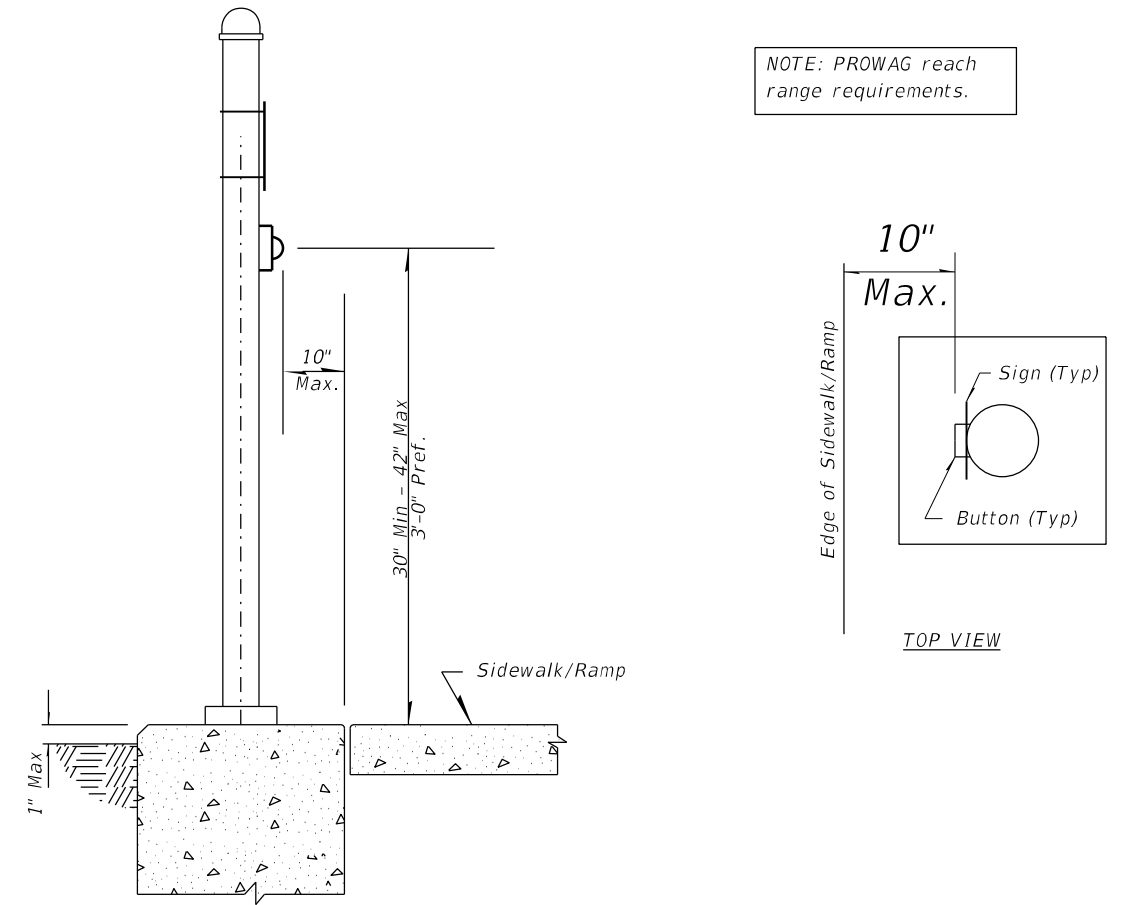
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL INTERSECTIONS GENERAL NOTES & DETAILS				
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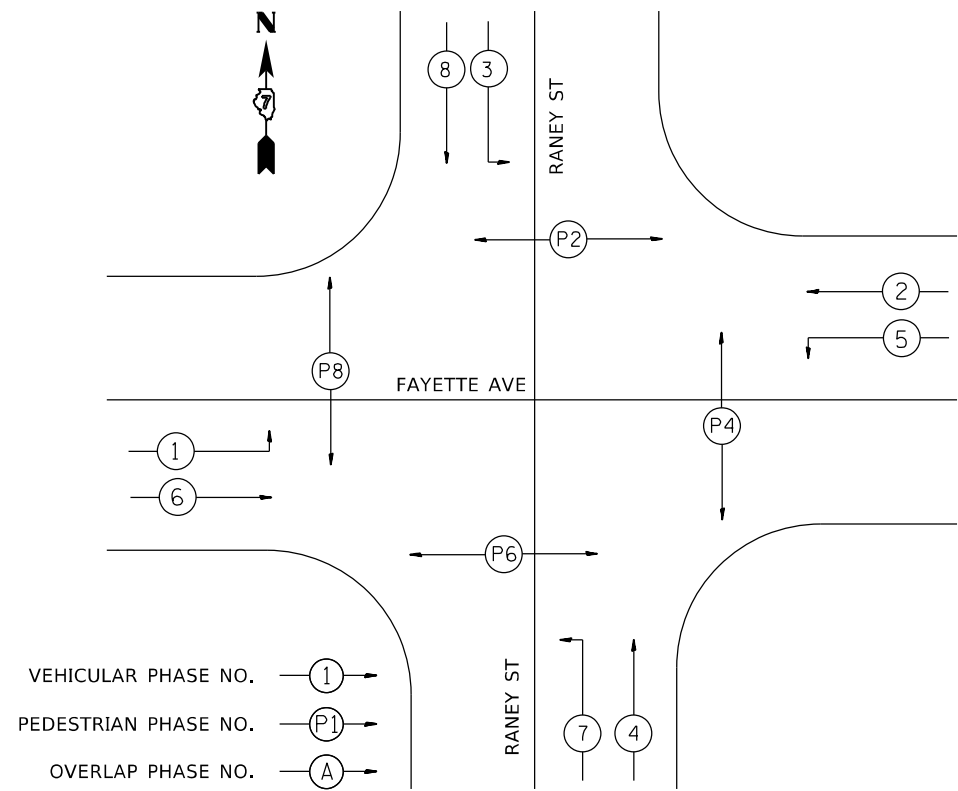
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		EFFINGHAM	385	242
CONTRACT NO. 74212				
		ILLINOIS	FED. AID PROJECT	



**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**



PEDESTRIAN PUSH-BUTTON LOCATION



PHASE DESIGNATION DIAGRAM

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & RANEY ST
DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	243
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

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BILL OF MATERIALS- RANEY ST

CODE	ITEM	UNIT	QUANTITY
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	157
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	994
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	198
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	354
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	6
81400100	HANDHOLE	EACH	7
81400300	DOUBLE HANDHOLE	EACH	1
81500100	GULFBOX JUNCTION	EACH	3
81500130	GULFBOX JUNCTION REMOVAL	EACH	4
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1361
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2752
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	2311
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2005
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	59
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	1414
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	4
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT	EACH	1
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 52 FT	EACH	1

CODE	ITEM	UNIT	QUANTITY
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	18
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
87900200	DRILL EXISING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	24
88500100	INDUCTIVE LOOP DETECTOR	EACH	12
88600100	DETECTOR LOOP, TYPE I	FOOT	1494
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
X1400505	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT WITH DUAL 15 FT LIGHTING ARM AT 40 FT MOUNTING HEIGHT	EACH	1

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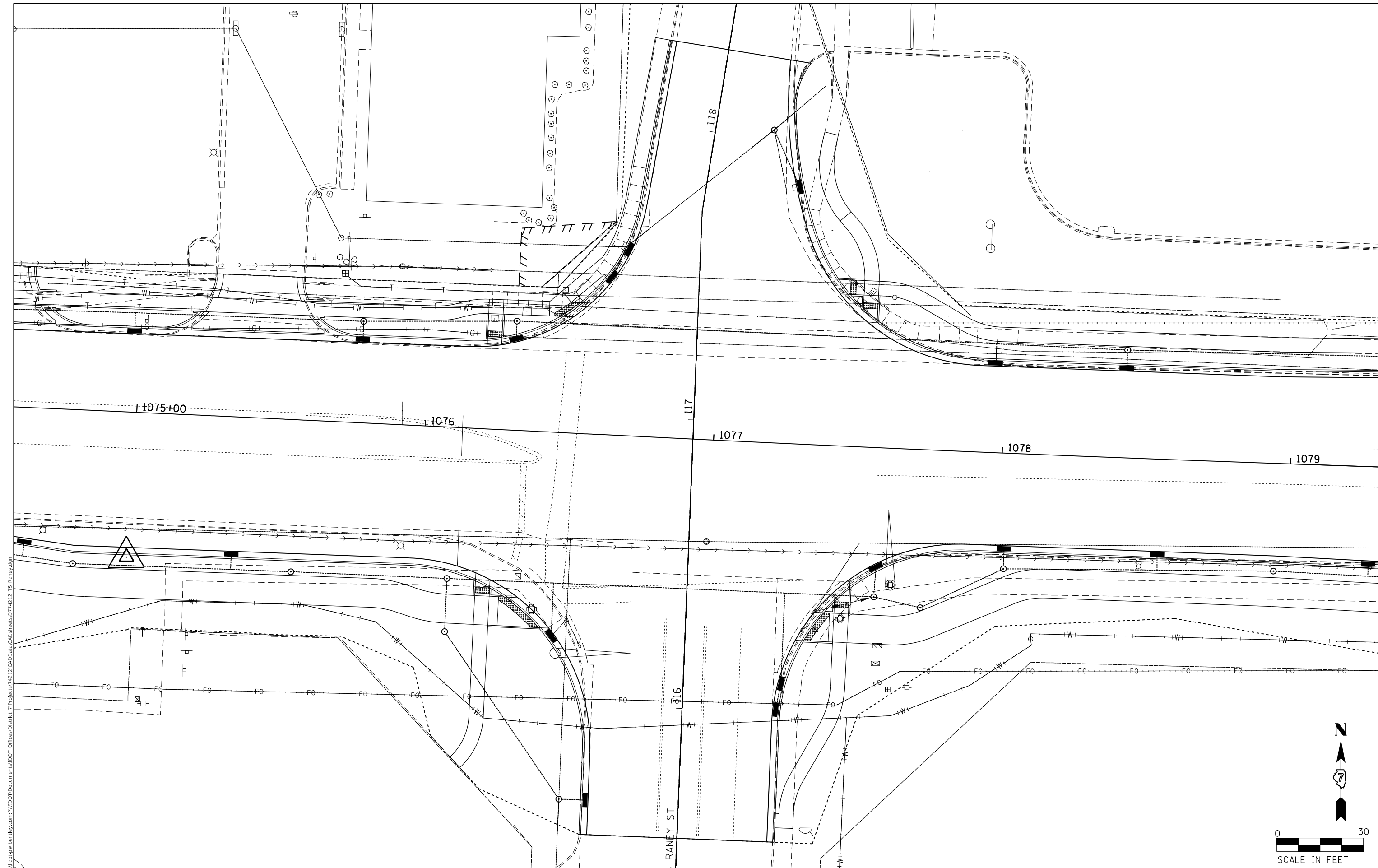
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & RANEY ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	244
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



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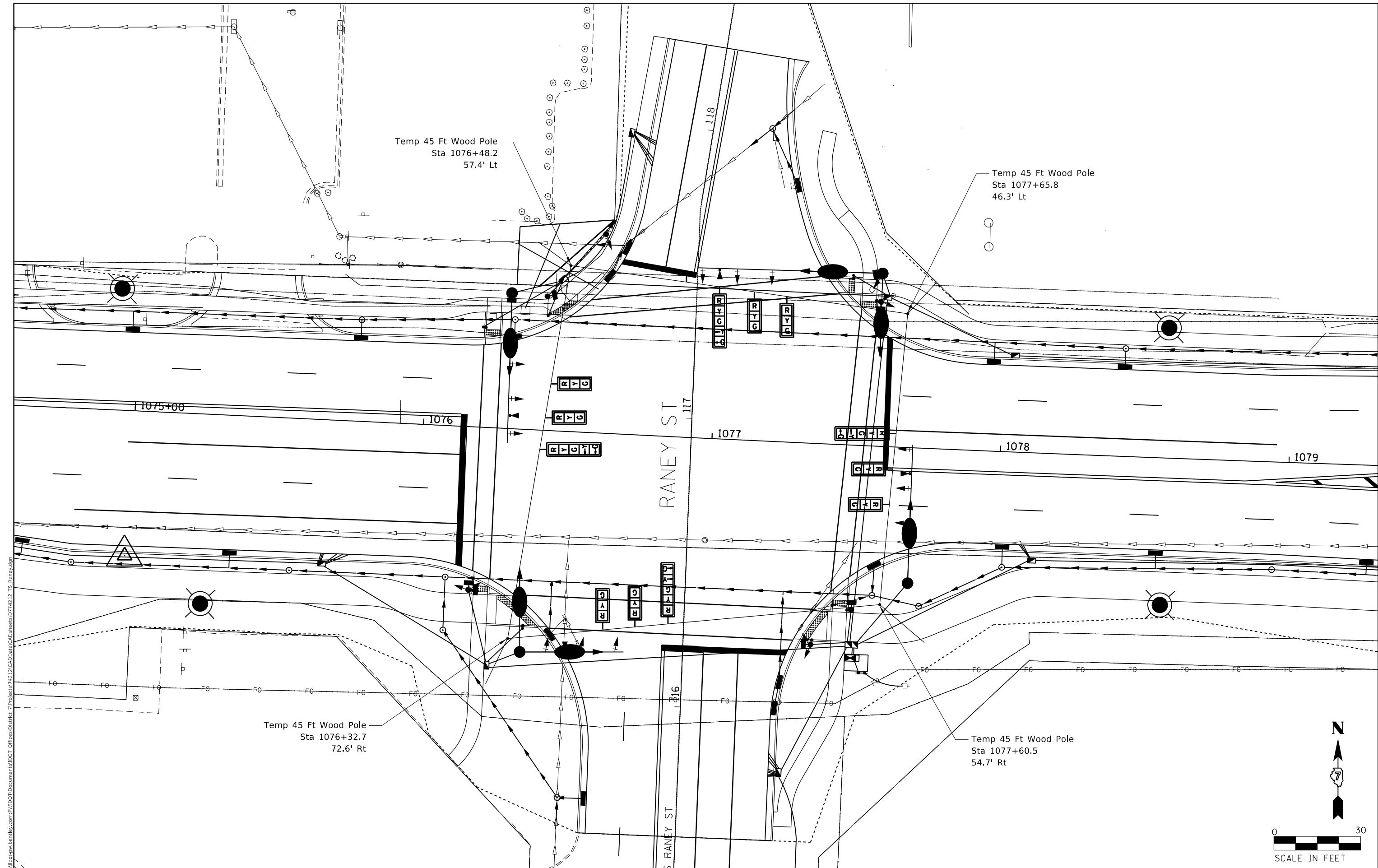
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & RANEY ST
EXISTING UTILITY LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	246
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

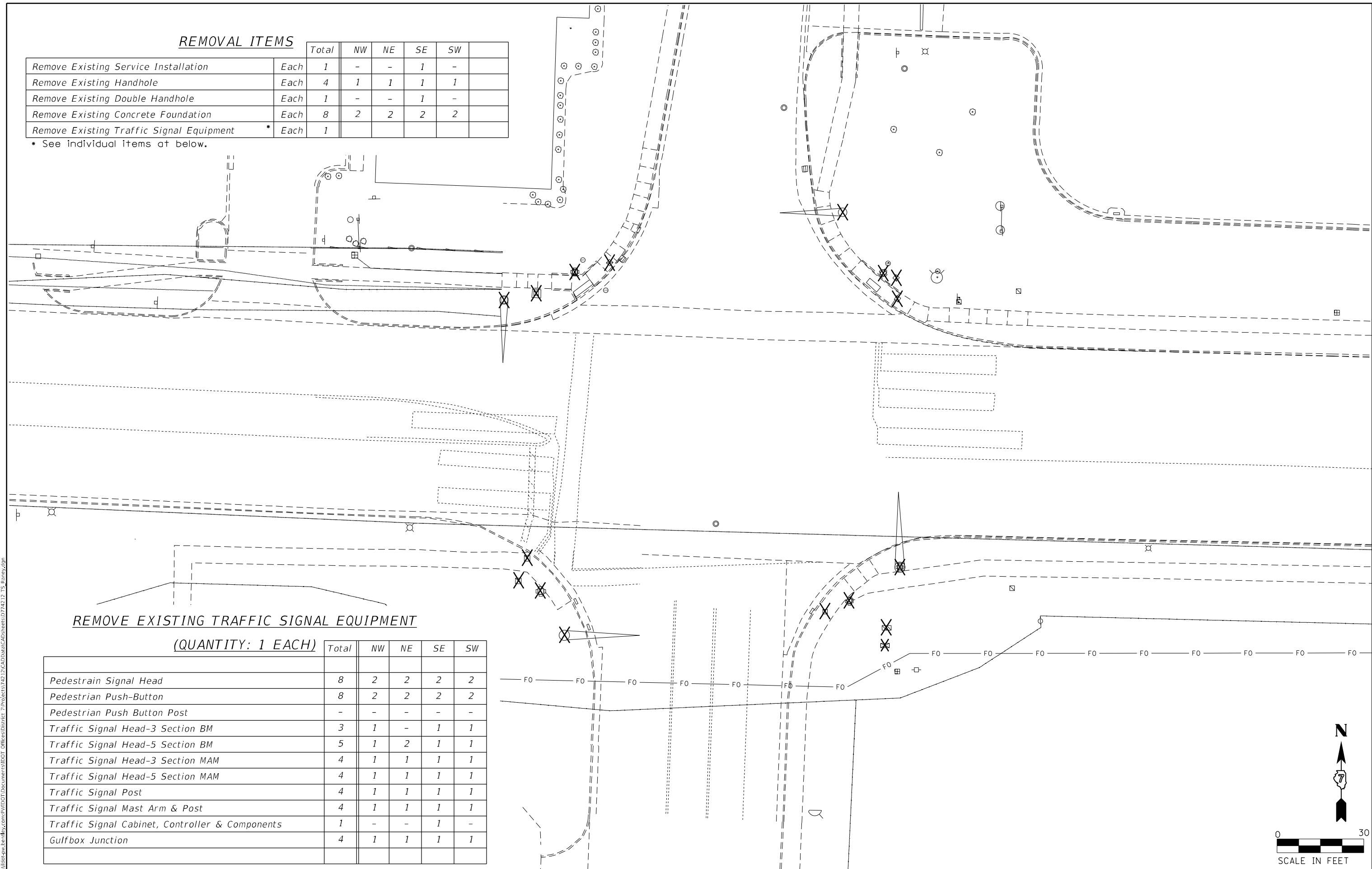
INTERSECTION OF FAYETTE AVE & RANEY ST TEMPORARY SIGNALS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	247
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

	Each	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	1	-	-	1	-
Remove Existing Handhole	Each	4	1	1	1	1
Remove Existing Double Handhole	Each	1	-	-	1	-
Remove Existing Concrete Foundation	Each	8	2	2	2	2
Remove Existing Traffic Signal Equipment	Each	1				

* See individual items at below.



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

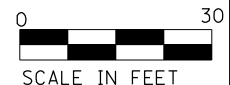
(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	-	-	-	-	-
Traffic Signal Head-3 Section BM	3	1	-	1	1
Traffic Signal Head-5 Section BM	5	1	2	1	1
Traffic Signal Head-3 Section MAM	4	1	1	1	1
Traffic Signal Head-5 Section MAM	4	1	1	1	1
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm & Post	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	-	1	-
Gulfbox Junction	4	1	1	1	1

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & RANEY ST
REMOVAL ITEMS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	248
CONTRACT NO. 74212				

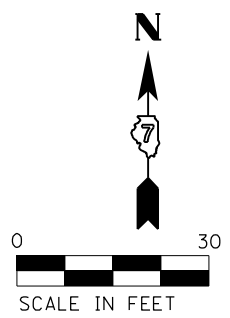
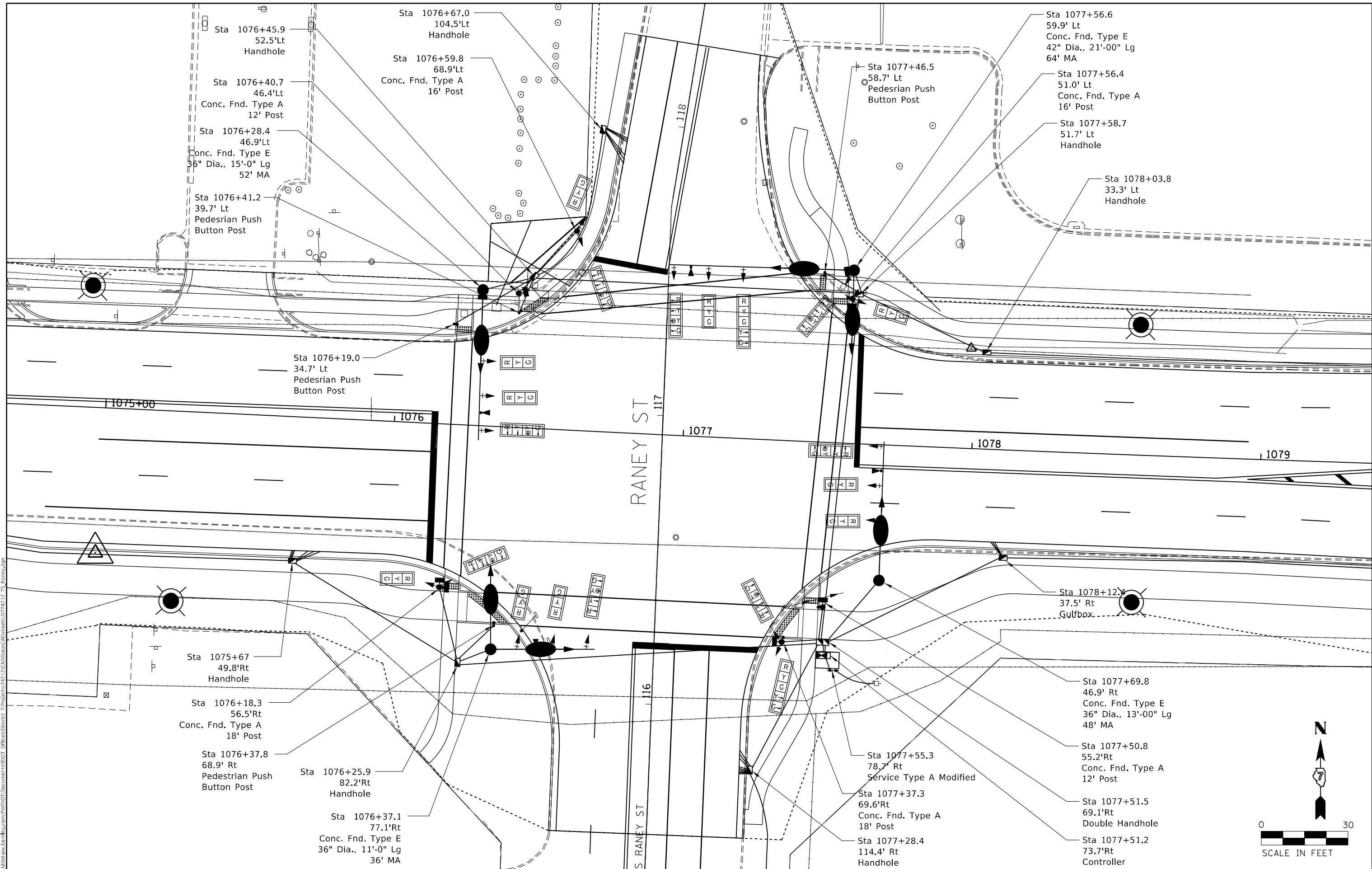


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PLOT DATE = 10/21/2022	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



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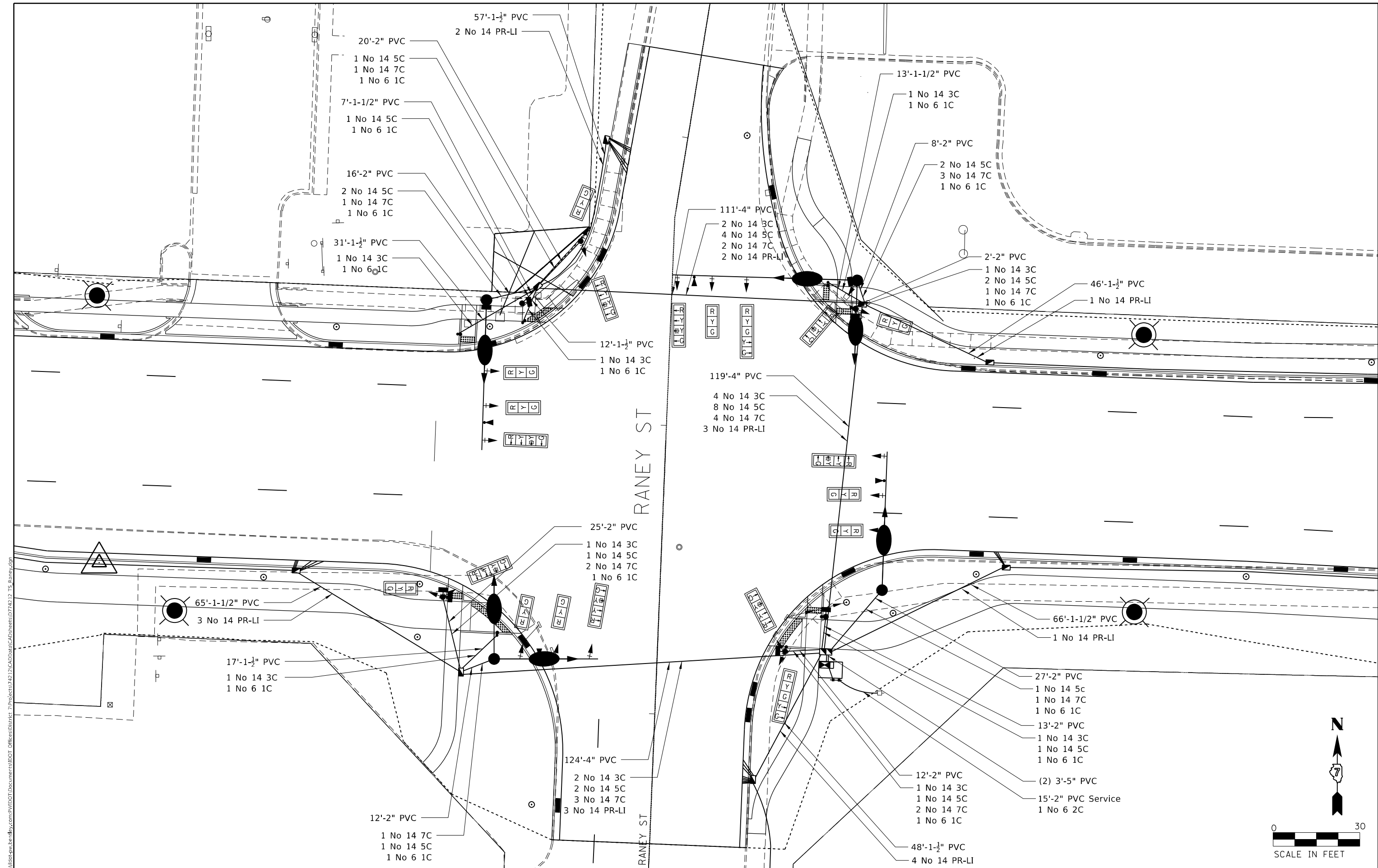
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PLOT DATE = 10/21/2022	DATE -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & RANEY ST
SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	249
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



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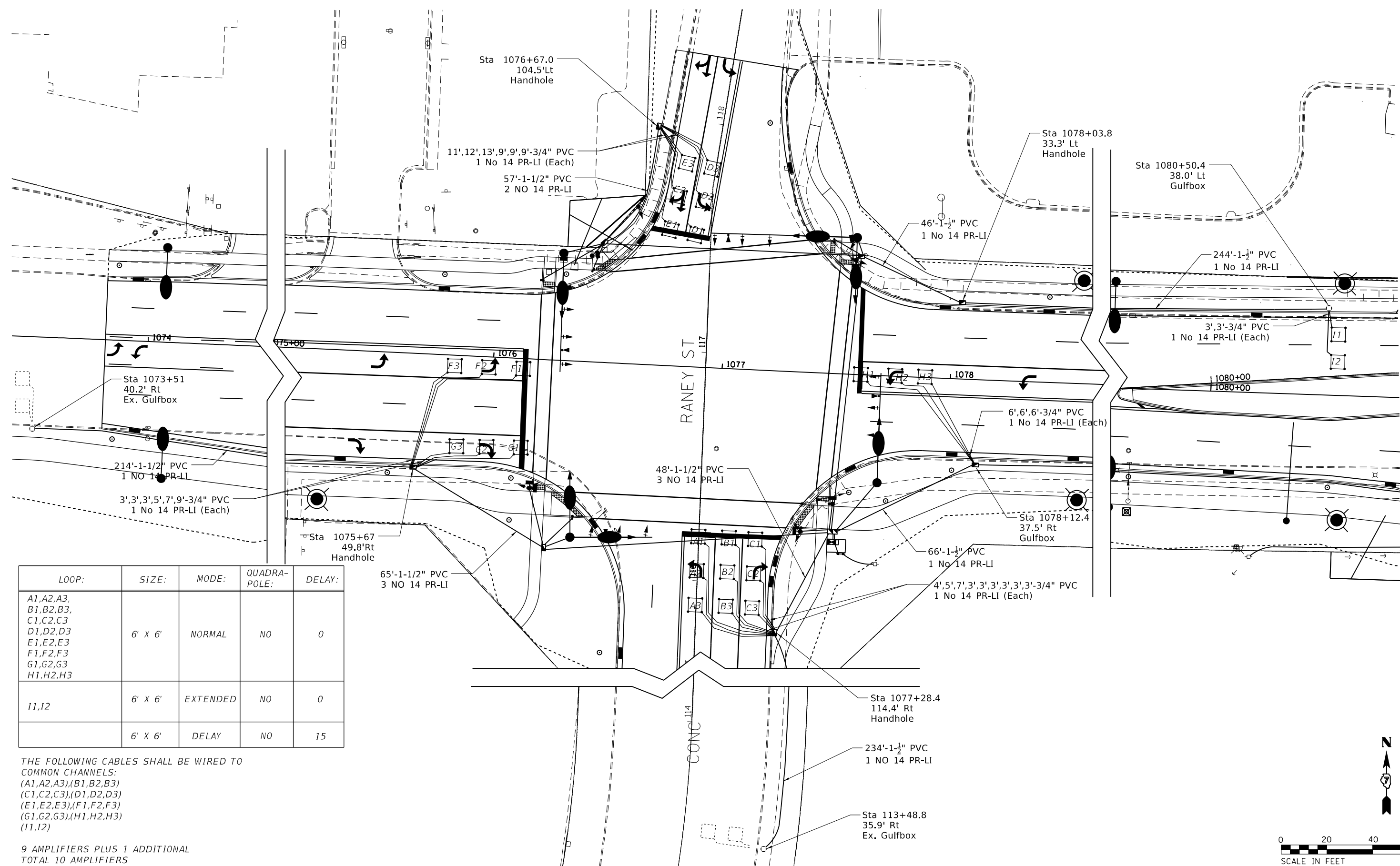
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & RANEY ST
CABLE LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

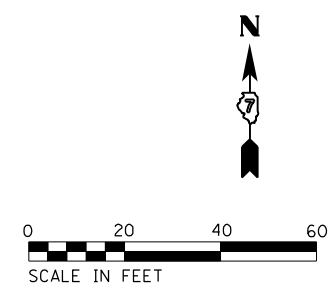
F.A.P. RTE. 95	SECTION (182)R	COUNTY EFFINGHAM	TOTAL SHEETS 385	SHEET NO. 250
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3, B1,B2,B3, C1,C2,C3 D1,D2,D3 E1,E2,E3 F1,F2,F3 G1,G2,G3 H1,H2,H3	6' X 6'	NORMAL	NO	0
11,12	6' X 6'	EXTENDED	NO	0
	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON CHANNELS:
 (A1,A2,A3),(B1,B2,B3)
 (C1,C2,C3),(D1,D2,D3)
 (E1,E2,E3),(F1,F2,F3)
 (G1,G2,G3),(H1,H2,H3)
 (11,12)

9 AMPLIFIERS PLUS 1 ADDITIONAL
 TOTAL 10 AMPLIFIERS



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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & RANEY ST
 DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	251
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

TO BE COMPLETED
FALL 2022

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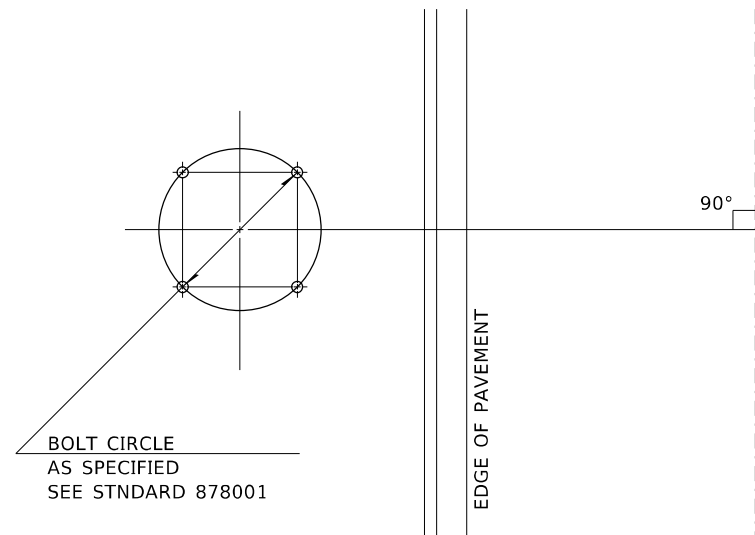
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & RANEY ST
BORING LOGS**

SCALE: SHEET OF SHEETS STA. TO STA.

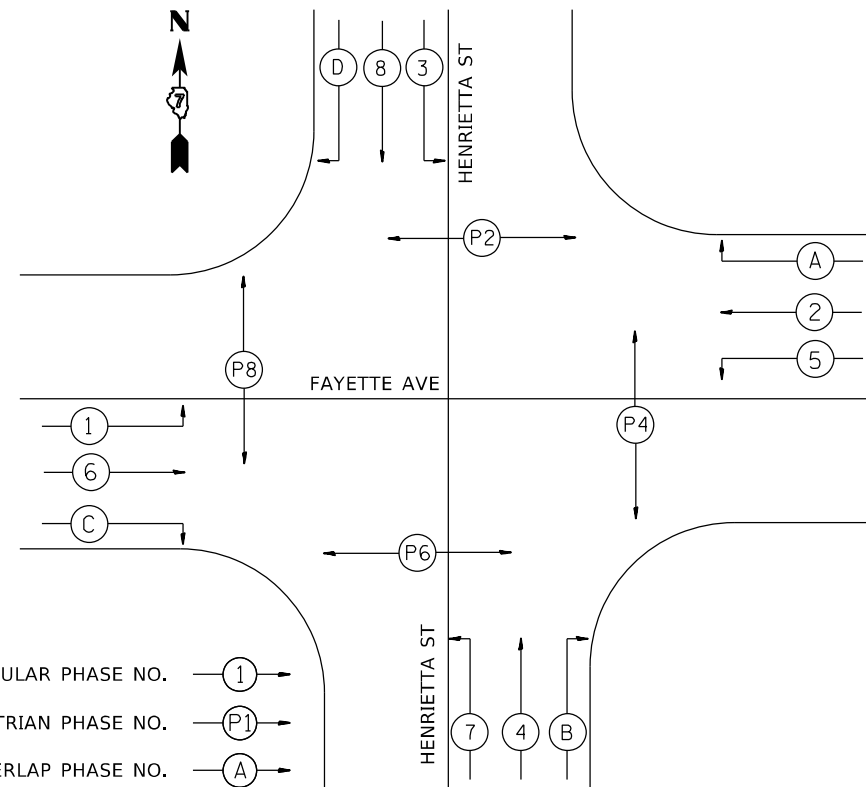
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	252
				CONTRACT NO. 74212
		ILLINOIS	FED. AID PROJECT	



**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**

LEGEND

	Existing	Proposed
SIGNAL POST	○	●
MAST ARM	○—	●—
SIGNAL HEAD W/ BACKPLATE	+▷	+▷
CONTROLLER	⊠	⊠
HANDHOLE	◻	◻
GULFBOX JUNCTION	○	○
DOUBLE HANDHOLE	◻	◻
DETECTOR LOOP	⊞	⊞
TRAFFIC SIGNAL HEAD	⌈ R ⌋ ⌈ Y ⌋ ⌈ G ⌋	⌈ R ⌋ ⌈ Y ⌋ ⌈ G ⌋
EMERGENCY VEHICLE PRE-EMPTION		⚠
LUMINAIRE, LED, TYPE III, ROADWAY, OUTPUT DESIGNATION H 15 FT DAVIT ARM, 45 FT MOUNTING HEIGHT		●—



PHASE DESIGNATION DIAGRAM

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS		
		6 X 6		6 X 30			6 X 40	
		DISTANCE FROM CONTROLLER (FT)						
				0	491	0	627	2 TURNS
				492	982	628	1255	3 TURNS
	0	545	983	1636	1256	2091		4 TURNS
	546	818	1637	2455	2092	3136		5 TURNS
	819	1145	2456	3436				6 TURNS
	1146	1527						7 TURNS
	1528	1964						8 TURNS
	1965	2455						9 TURNS
	2456	3000						10 TURNS

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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & HENRIETTA ST
DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	253
CONTRACT NO. 74212			ILLINOIS FED. AID PROJECT	

BILL OF MATERIALS- HENRIETTA ST

CODE	ITEM	UNIT	QUANTITY
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	275
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	1028
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	550
81028360	UNDERGROUND CONDUIT, PVC, 2-1/2" DIA	FOOT	42
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	506
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	201
81400100	HANDHOLE	EACH	11
81400300	DOUBLE HANDHOLE	EACH	5
81500100	GULFBOX JUNCTION	EACH	4
85000200	MAINTENANCE OF EXISTING SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1822
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	7173
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	692
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	6951
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	450
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	2134
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	3
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	1
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	3
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	21

CODE	ITEM	UNIT	QUANTITY
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	100
87900200	DRILL EXISING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	24
88500100	INDUCTIVE LOOP DETECTOR	EACH	24
88600100	DETECTOR LOOP, TYPE I	FOOT	3288
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
X1400484	STEEL MAST ARM ASSEMBLY AND POLE, 65 FT WITH DUAL 15 FT LIGHTING ARM AT 40 FT MOUNTING HEIGHT	EACH	1
X1400476	STEEL MAST ARM ASSEMBLY AND POLE, 72 FT WITH DUAL 15 FT LIGHTING ARM AT 40 FT MOUNTING HEIGHT	EACH	1
X1400477	STEEL MAST ARM ASSEMBLY AND POLE, 75 FT WITH DUAL 15 FT LIGHTING ARM AT 40 FT MOUNTING HEIGHT	EACH	2
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8870300	EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	4

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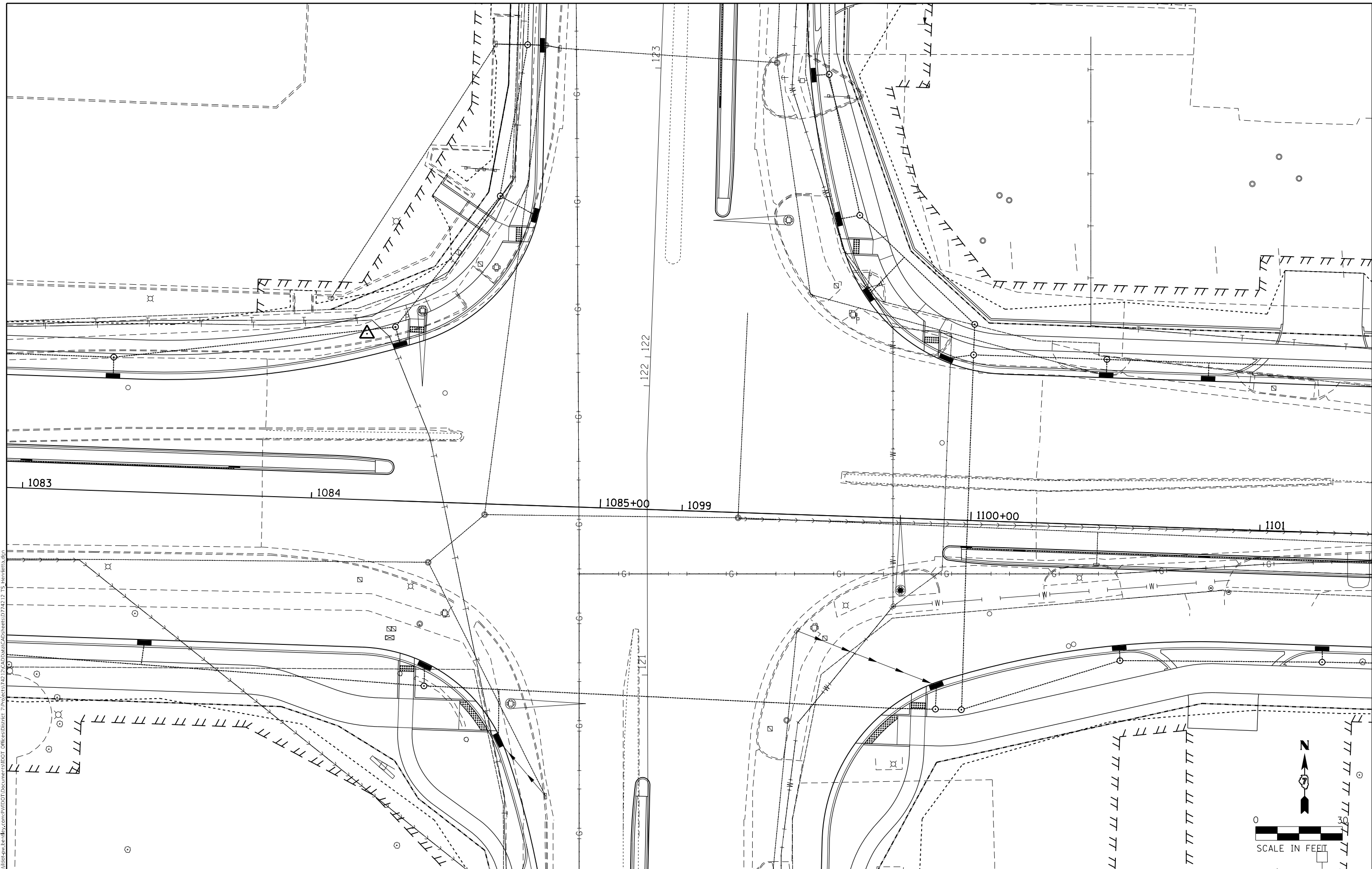
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & HENRIETTA ST
BILL OF MATERIALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	254
CONTRACT NO. 74212				
		ILLINOIS	FED. AID PROJECT	

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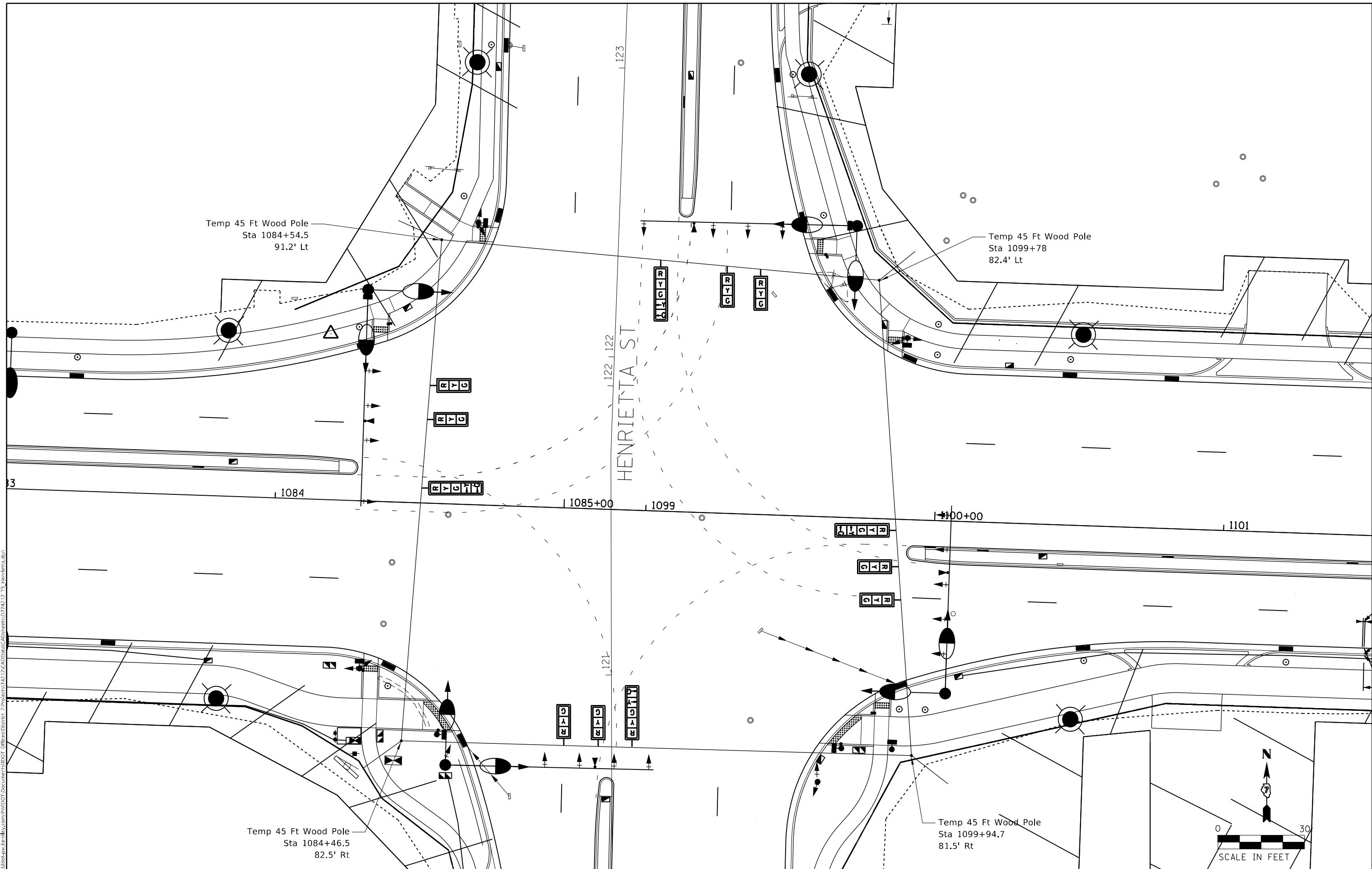
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & HENRIETTA ST EXISTING UTILITY LAYOUT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		95	(182)R	EFFINGHAM	385	255
SCALE:		SHEET OF SHEETS		STA. TO STA.		CONTRACT NO. 74212

ILLINOIS	FED. AID PROJECT
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

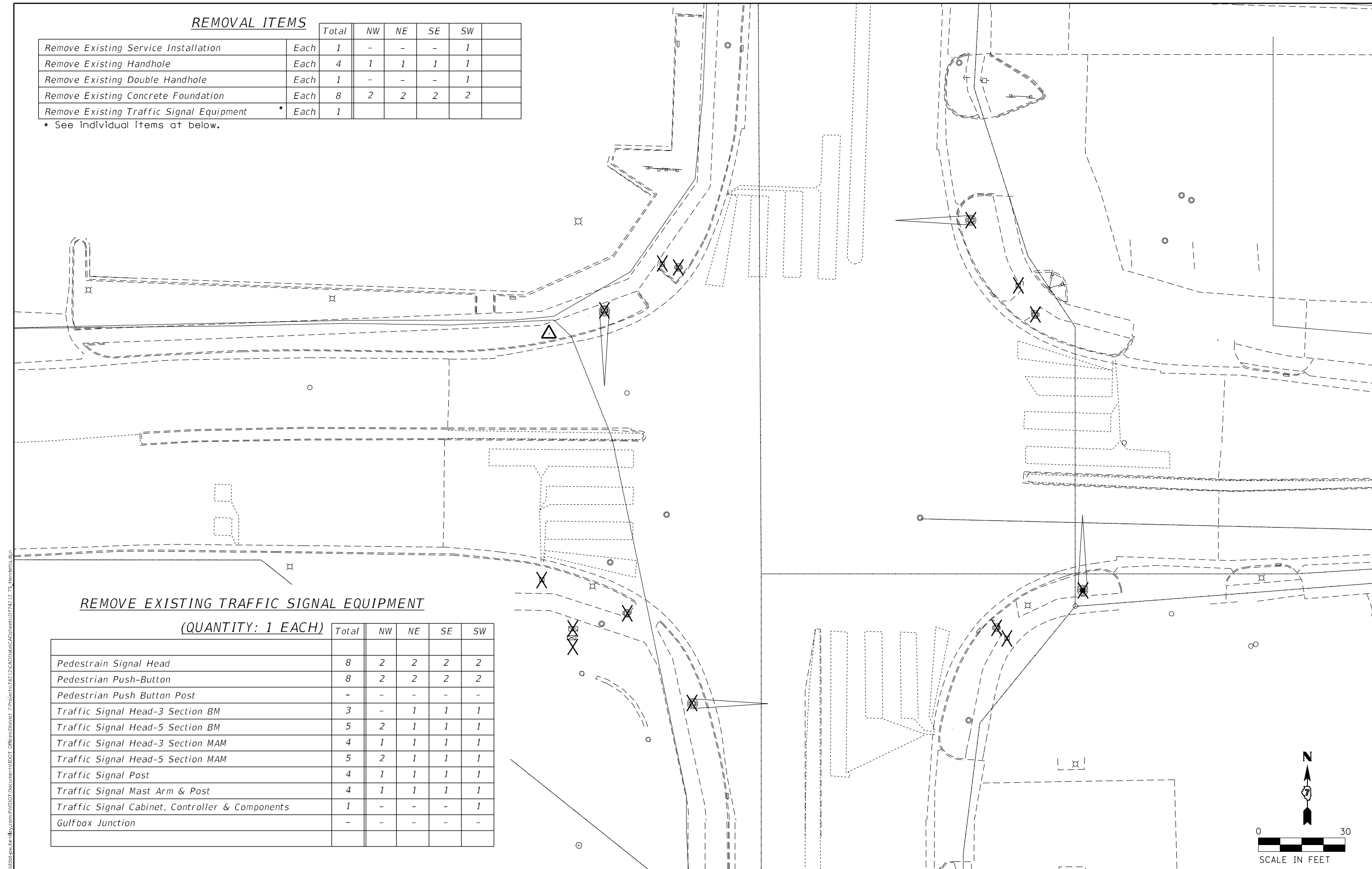
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TEMPORARY SIGNALS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	256
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

	Each	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	1	-	-	-	1
Remove Existing Handhole	Each	4	1	1	1	1
Remove Existing Double Handhole	Each	1	-	-	-	1
Remove Existing Concrete Foundation	Each	8	2	2	2	2
Remove Existing Traffic Signal Equipment	* Each	1				

* See individual items at below.



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	-	-	-	-	-
Traffic Signal Head-3 Section BM	3	-	1	1	1
Traffic Signal Head-5 Section BM	5	2	1	1	1
Traffic Signal Head-3 Section MAM	4	1	1	1	1
Traffic Signal Head-5 Section MAM	5	2	1	1	1
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm & Post	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	-	-	1
Gulfbox Junction	-	-	-	-	-

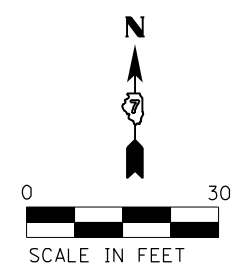
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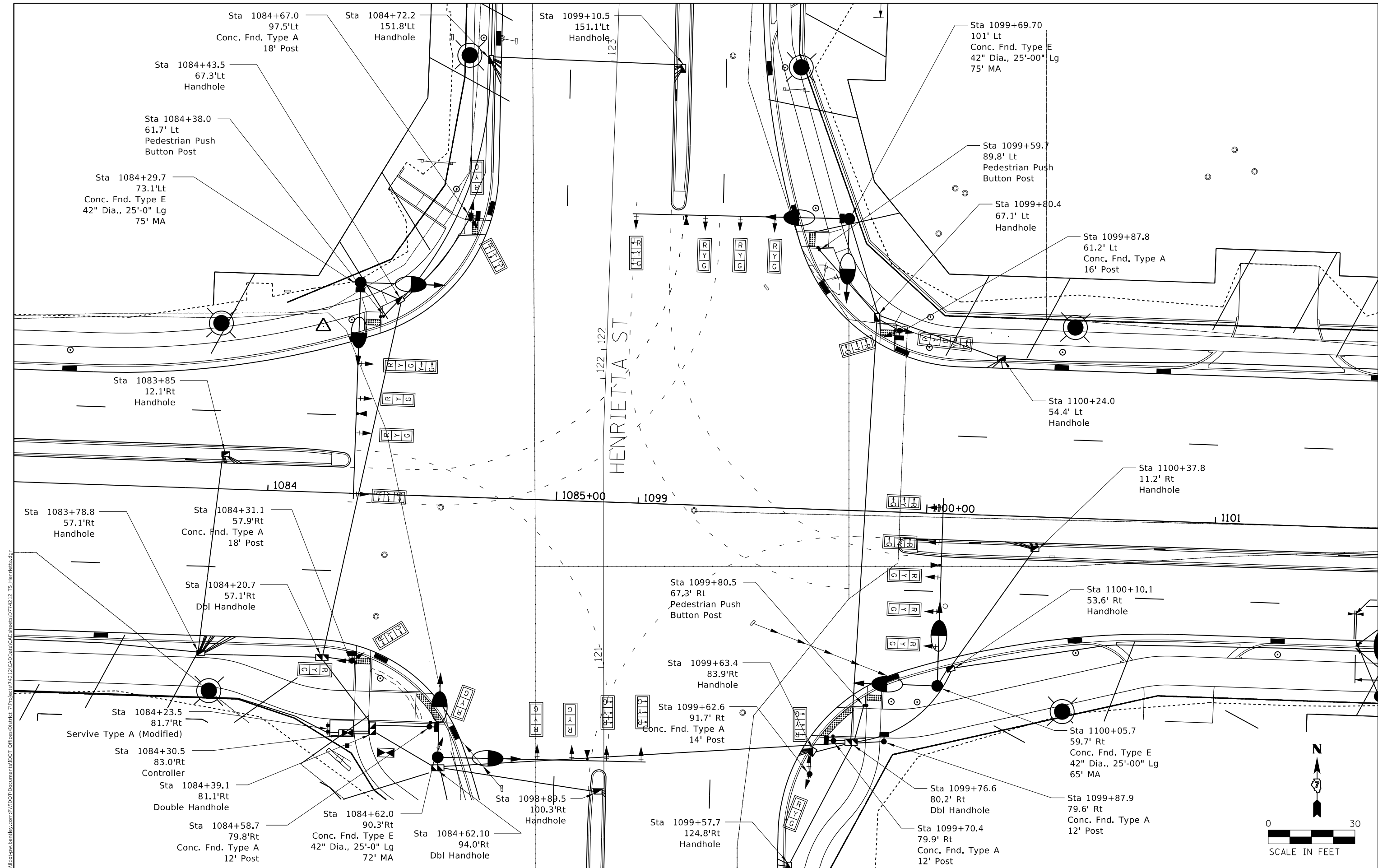
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & HENRIETTA ST
REMOVAL ITEMS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	257
CONTRACT NO. 74212				

SCALE: SHEET OF SHEETS STA. TO STA.





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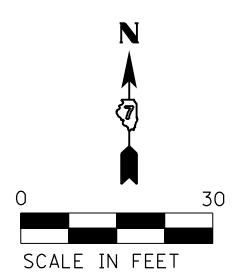
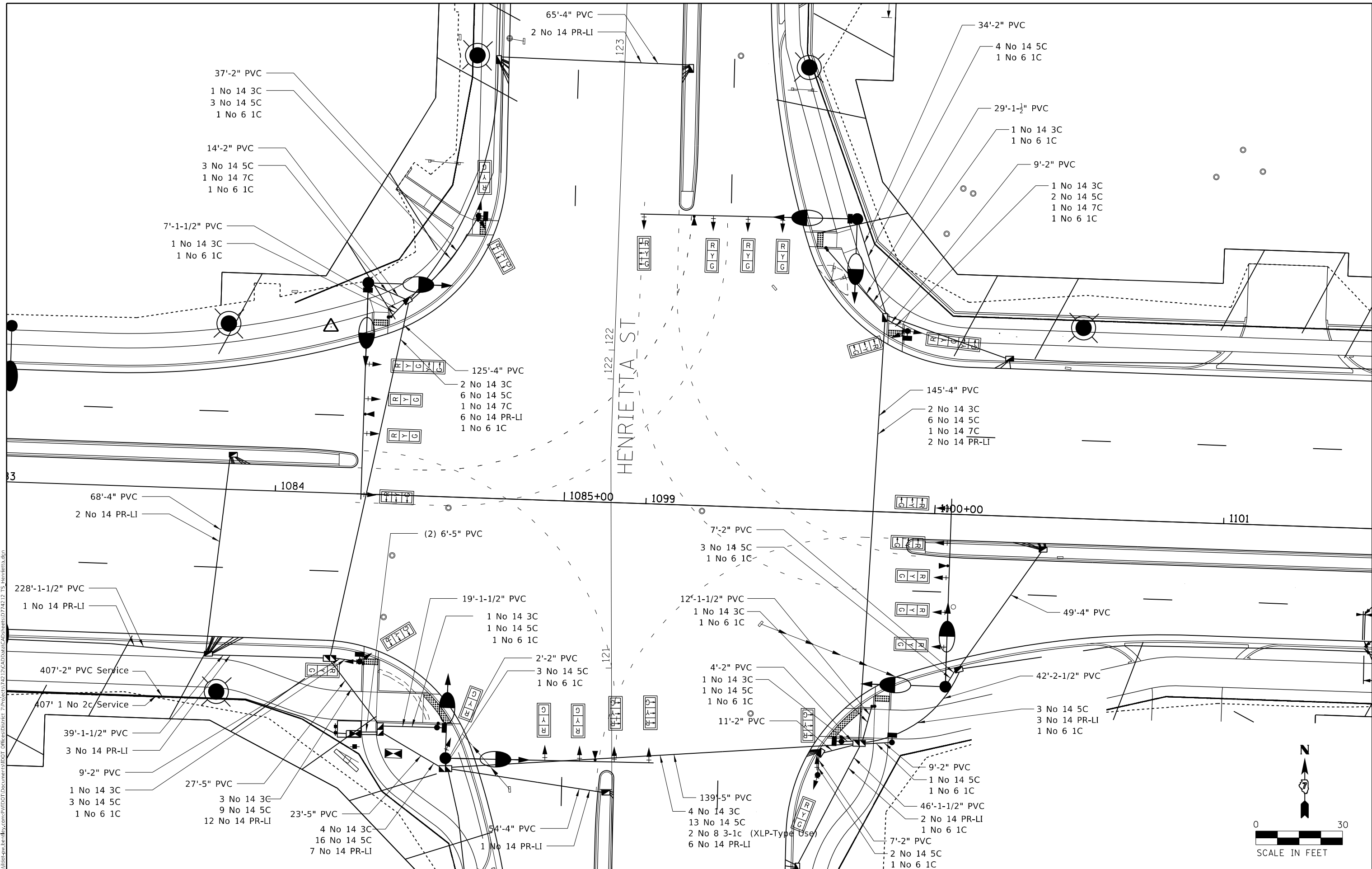
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & HENRIETTA ST SIGNAL LAYOUT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		95	(182)R	EFFINGHAM	385	258
SCALE:		SHEET OF SHEETS		STA. TO STA.		CONTRACT NO. 74212

ILLINOIS FED. AID PROJECT	
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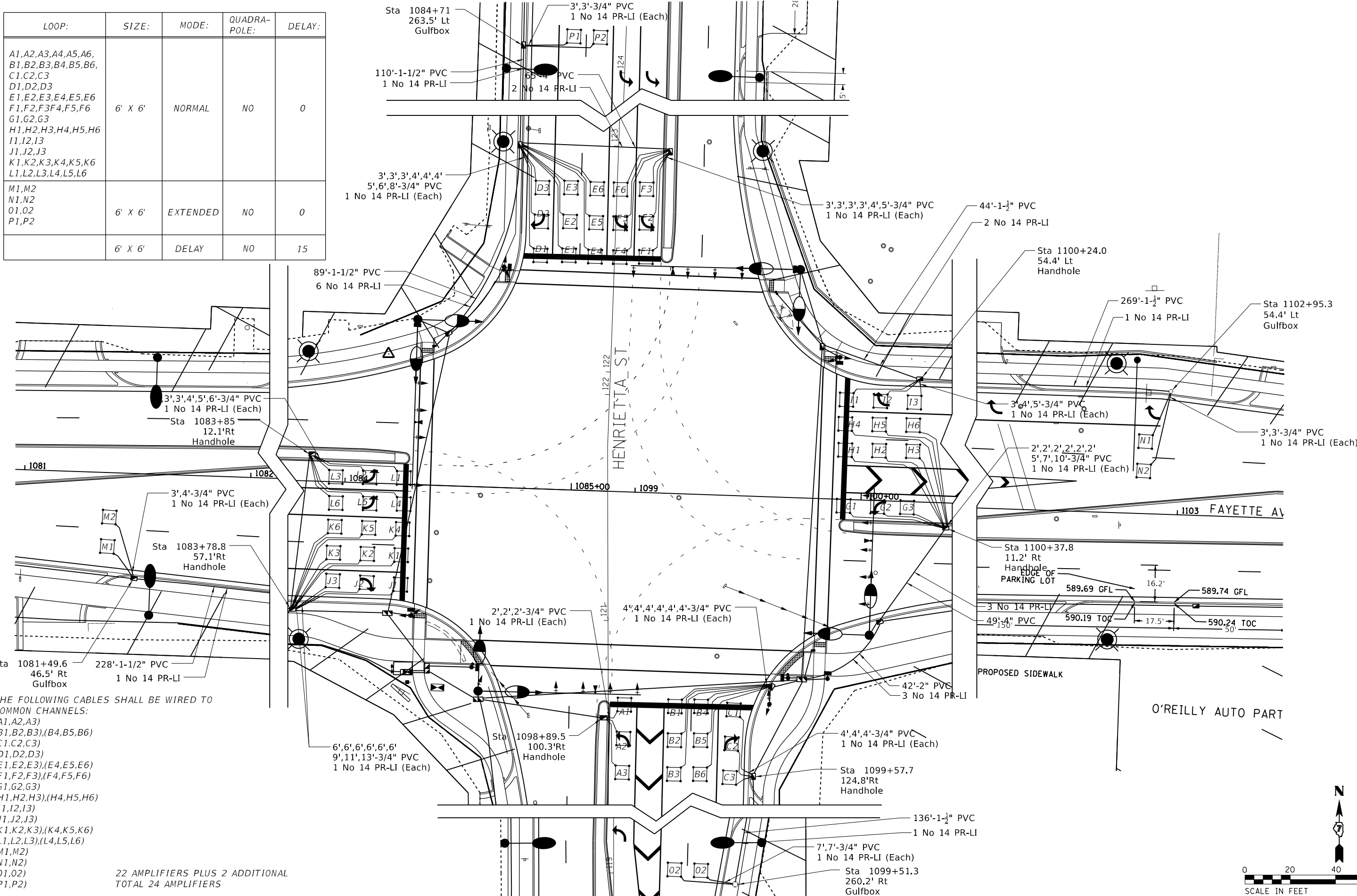
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	DRAWN -	REVISED -
PLOT SCALE = 30,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & HENRIETTA ST			
CABLE LAYOUT			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	259
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3,A4,A5,A6, B1,B2,B3,B4,B5,B6, C1,C2,C3 D1,D2,D3 E1,E2,E3,E4,E5,E6 F1,F2,F3F4,F5,F6 G1,G2,G3 H1,H2,H3,H4,H5,H6 I1,I2,I3 J1,J2,J3 K1,K2,K3,K4,K5,K6 L1,L2,L3,L4,L5,L6	6' X 6'	NORMAL	NO	0
M1,M2 N1,N2 O1,O2 P1,P2	6' X 6'	EXTENDED	NO	0
	6' X 6'	DELAY	NO	15



THE FOLLOWING CABLES SHALL BE WIRED TO COMMON CHANNELS:
 (A1,A2,A3)
 (B1,B2,B3),(B4,B5,B6)
 (C1,C2,C3)
 (D1,D2,D3)
 (E1,E2,E3),(E4,E5,E6)
 (F1,F2,F3),(F4,F5,F6)
 (G1,G2,G3)
 (H1,H2,H3),(H4,H5,H6)
 (I1,I2,I3)
 (J1,J2,J3)
 (K1,K2,K3),(K4,K5,K6)
 (L1,L2,L3),(L4,L5,L6)
 (M1,M2)
 (N1,N2)
 (O1,O2)
 (P1,P2)

22 AMPLIFIERS PLUS 2 ADDITIONAL
 TOTAL 24 AMPLIFIERS

USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & HENRIETTA ST
 DETECTOR LOOPS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 95	SECTION (182)R	COUNTY EFFINGHAM	TOTAL SHEETS 385	SHEET NO. 260
CONTRACT NO. 74212			ILLINOIS FED. AID PROJECT	

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TO BE COMPLETED
FALL 2022

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 30,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & HENRIETTA ST
BORING LOGS**

SCALE: SHEET OF SHEETS STA. TO STA.

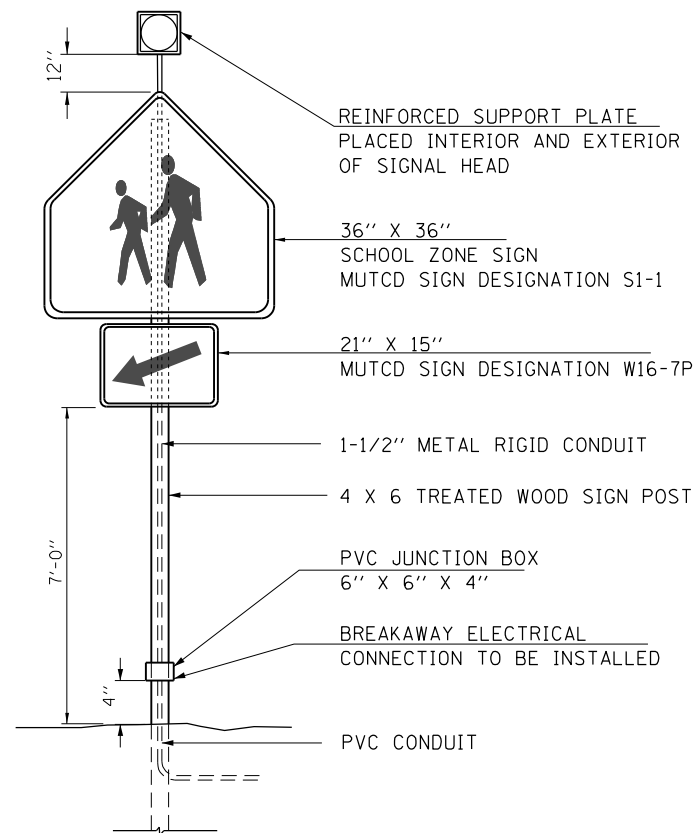
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	261
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

THIS PROJECT IS LOCATED AT THE INTERSECTION OF FAYETTE AVE AND CHERRY ST IN EFFINGHAM COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING POST MOUNTED SIGNS WITH BEACONS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE LOCATION OF ALL FLASHING BEACON COMPONENTS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE FINAL LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL NEW FLASHER SIGNAL WIRING SHALL EXTEND FROM FLASHER CONTROLLER TO THE FLASHER SIGNAL.



BILL OF MATERIALS FLASHER CONTROLLER

CODE	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL-TYPE 1	SOFT	23
80500100	SERVICE INSTALLATION,TYPE A	EACH	1
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	4
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	92
81100500	CONDUIT ATTACHED TO STRUCTURE, 1-1/2" DIA., GALVANIZED STEEL	FOOT	26
81500100	GULFBOX	EACH	2
85800100	FLASHER CONTROLLER	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, NO 14 3C	FOOT	224
87301805	ELECTRIC CABLE IN CONDUIT,SERVICE,NO 6 2C	FOOT	23
88000105	FLASHING BEACON INSTALLATION	EACH	1
88040030	SIGNAL HEAD, POLYCARONATE, LED, 1 FACE, 1 SECTION, POST MOUNTED	EACH	2
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1

BILL OF MATERIALS TRAFFIC COUNTER

CODE	ITEM	UNIT	QUANTITY
81028330	UNDERGROUND CONDUIT, PVC, 1-1/4" DIA	FOOT	26
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA	FOOT	70
81400100	HANDHOLE	EACH	2
86300300	CONTROLLER CABINET TYPE III	EACH	1
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0327116	SOLAR POWER ASSEMBLY	EACH	1
X8730810	ELECTRIC CABLE IN CONDUIT,CONOGA-30003	FOOT	234
X8860400	DETECTOR LOOP, SPECIAL	FOOT	142

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 30,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & CHERRY ST.
GENERAL NOTES/QUANTITIES**

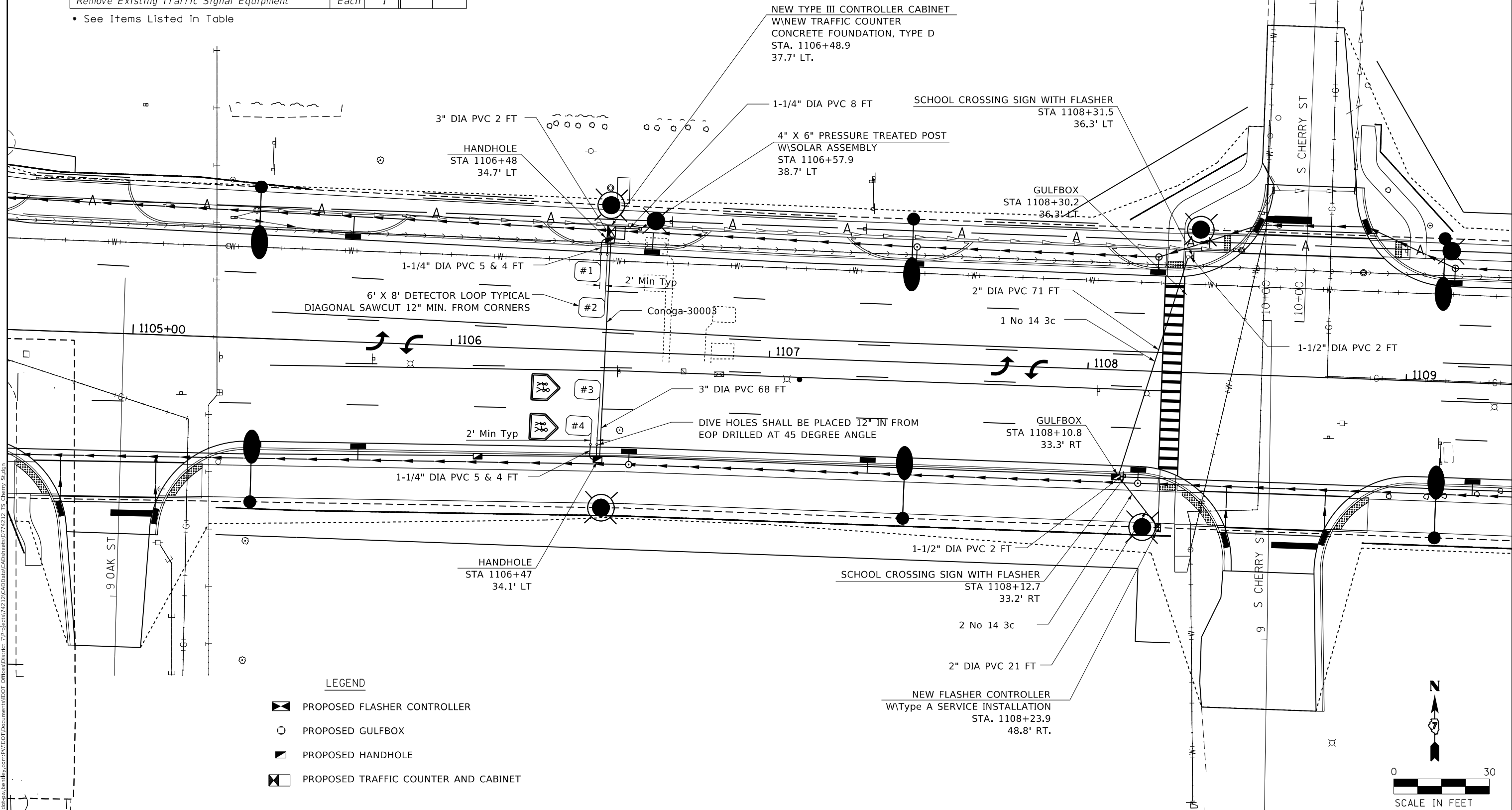
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	262
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

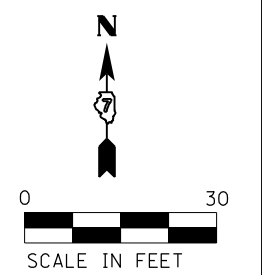
REMOVAL ITEMS FOR EXISTING TRAFFIC COUNTER

	Total		
Remove Existing Solar Assembly	1		
Remove Existing Handhole	1		
Remove Existing Controller Cabinet	1		
Remove Existing Controller Foundation	1		
Remove Existing Traffic Signal Equipment	Each	1	

• See Items Listed in Table



- LEGEND**
- PROPOSED FLASHER CONTROLLER
 - PROPOSED GULFBOX
 - PROPOSED HANDHOLE
 - PROPOSED TRAFFIC COUNTER AND CABINET



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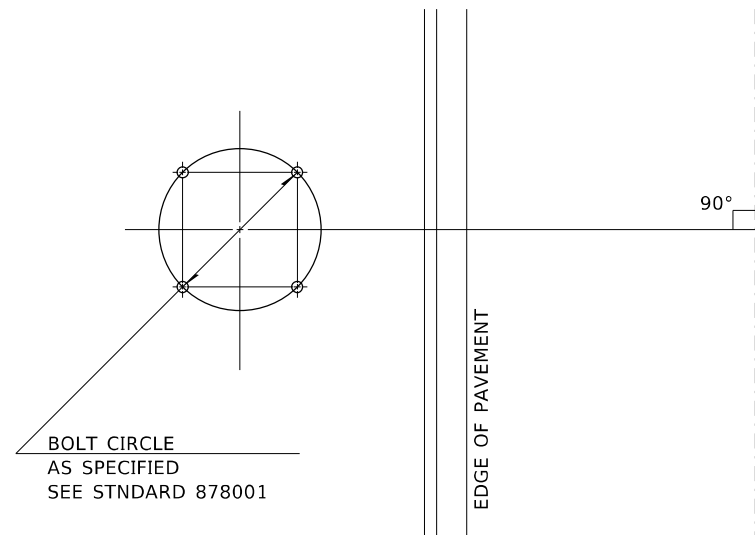
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & CHERRY ST
SIGNAL LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

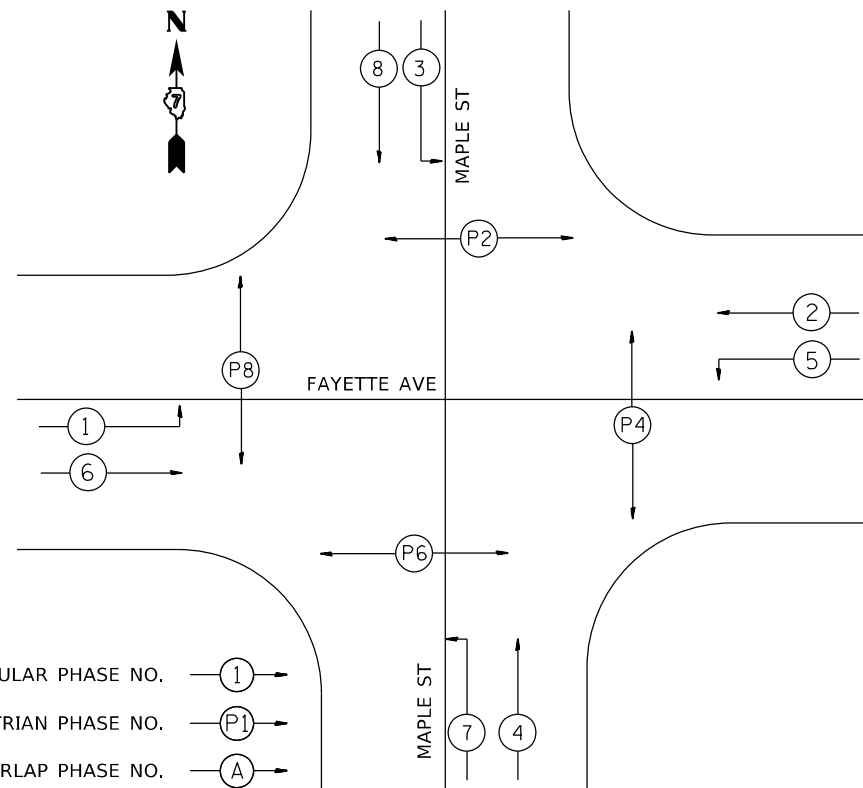
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	263
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**

LEGEND

	Existing	Proposed
SIGNAL POST	○	●
MAST ARM	○—	●—
SIGNAL HEAD W/ BACKPLATE	⊢	⊢
CONTROLLER	⊠	⊠
HANDHOLE	◻	◻
GULFBOX JUNCTION	○	○
DOUBLE HANDHOLE	◻	◻
DETECTOR LOOP	⊞	⊞
TRAFFIC SIGNAL HEAD	⊞ R Y G	⊞ R Y G
EMERGENCY VEHICLE PRE-EMPTION		⊞
LUMINAIRE, LED, TYPE IV, ROADWAY, OUTPUT DESIGNATION H 15 FT DAVIT ARM, 40 FT MOUNTING HEIGHT		●—



PHASE DESIGNATION DIAGRAM

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS		
		6 X 6		6 X 30			6 X 40	
		DISTANCE FROM CONTROLLER (FT)						
				0	491	0	627	2 TURNS
				492	982	628	1255	3 TURNS
	0	545	983	1636	1256	2091		4 TURNS
	546	818	1637	2455	2092	3136		5 TURNS
	819	1145	2456	3436				6 TURNS
	1146	1527						7 TURNS
	1528	1964						8 TURNS
	1965	2455						9 TURNS
	2456	3000						10 TURNS

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	DRAWN -	REVISED -
PLOT SCALE = 30,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & MAPLE ST
DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	264
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS- MAPLE ST

CODE	ITEM	UNIT	QUANTITY
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	147
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	772
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	298
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	200
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	144
81400100	HANDHOLE	EACH	6
81400300	DOUBLE HANDHOLE	EACH	3
81500100	GULFBOX JUNCTION	EACH	3
85000200	MAINTENANCE OF EXISTING SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1471
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1975
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	2382
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2775
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	185
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	1368
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	3
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	3
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	7
87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT	EACH	1
87703050	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 64 FT	EACH	1

CODE	ITEM	UNIT	QUANTITY
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	21
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
87900200	DRILL EXISING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	3
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
88500100	INDUCTIVE LOOP DETECTOR	EACH	16
88600100	DETECTOR LOOP, TYPE I	FOOT	1483
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

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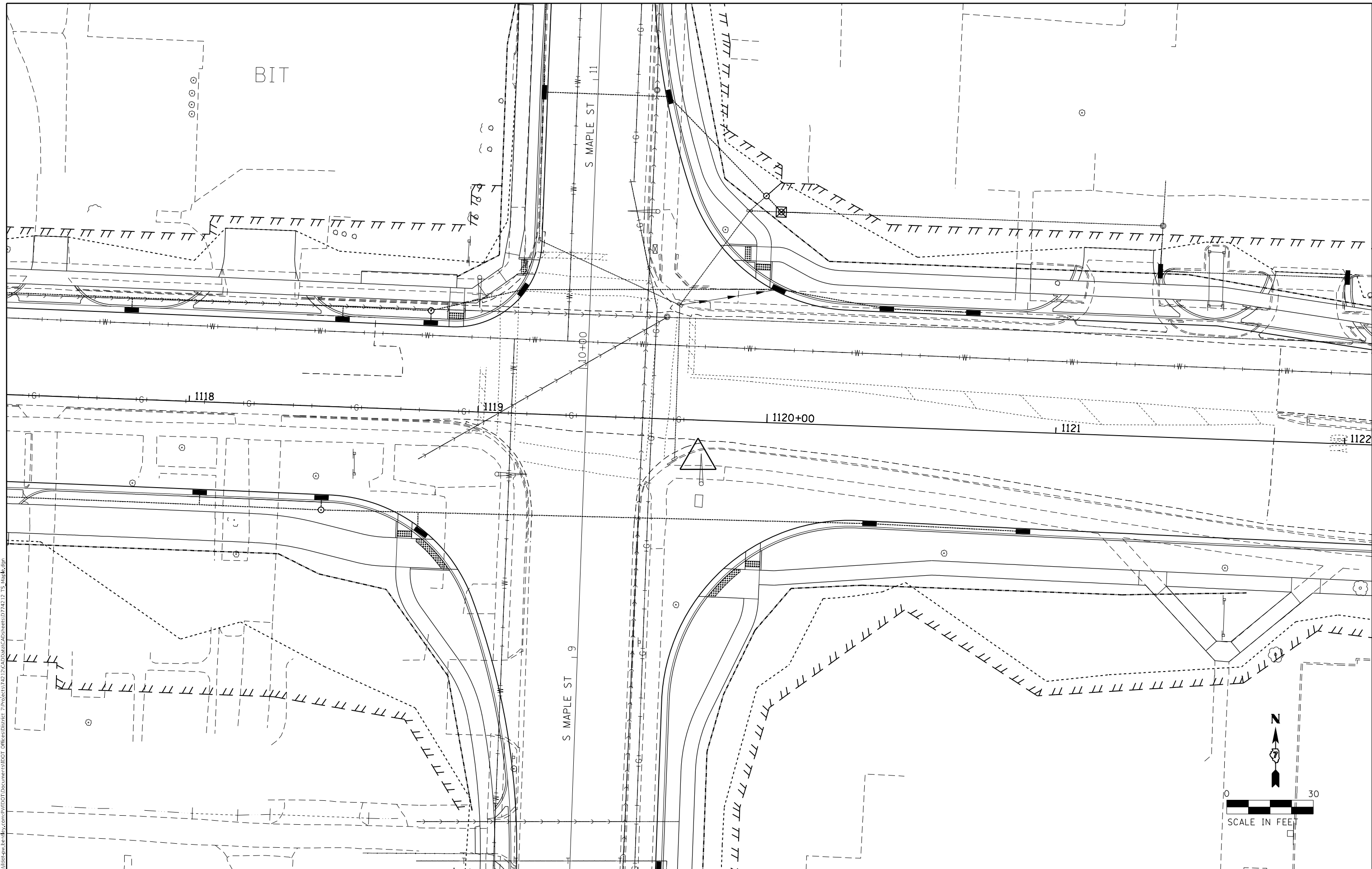
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & MAPLE ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	265
			CONTRACT NO. 74212	
		ILLINOIS	FED. AID PROJECT	



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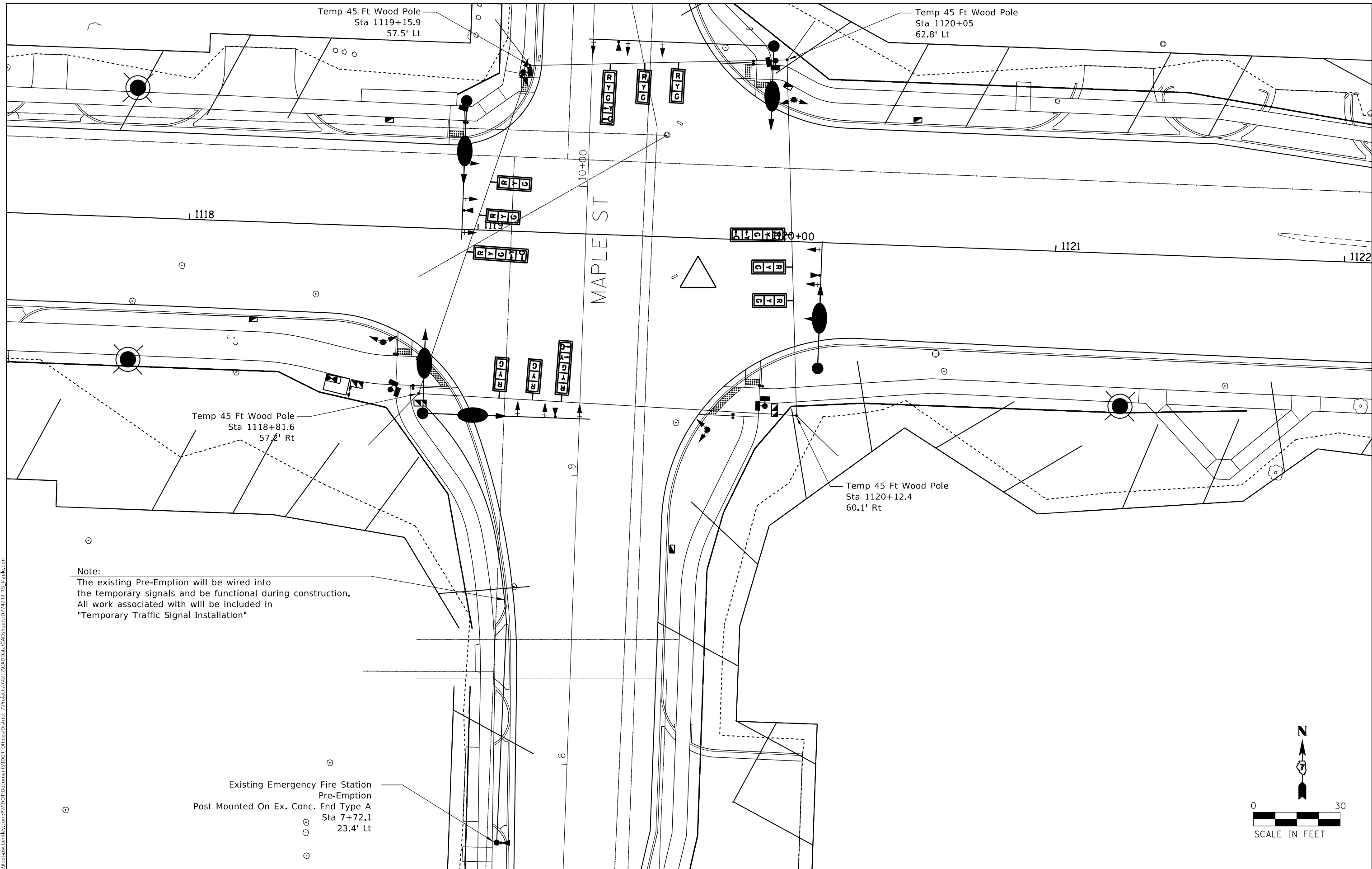
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & MAPLE ST
EXISTING UTILITY LAYOUT

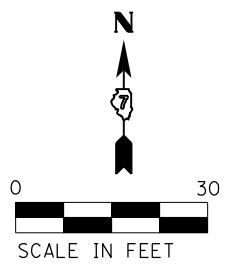
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F.A.P. RTE. 95	SECTION (182)R	COUNTY EFFINGHAM	TOTAL SHEETS 385	SHEET NO. 267
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



Note:
 The existing Pre-Emption will be wired into the temporary signals and be functional during construction. All work associated with will be included in "Temporary Traffic Signal Installation"

Existing Emergency Fire Station
 Pre-Emption
 Post Mounted On Ex. Conc. Fnd Type A
 Sta 7+72.1
 23.4' Lt



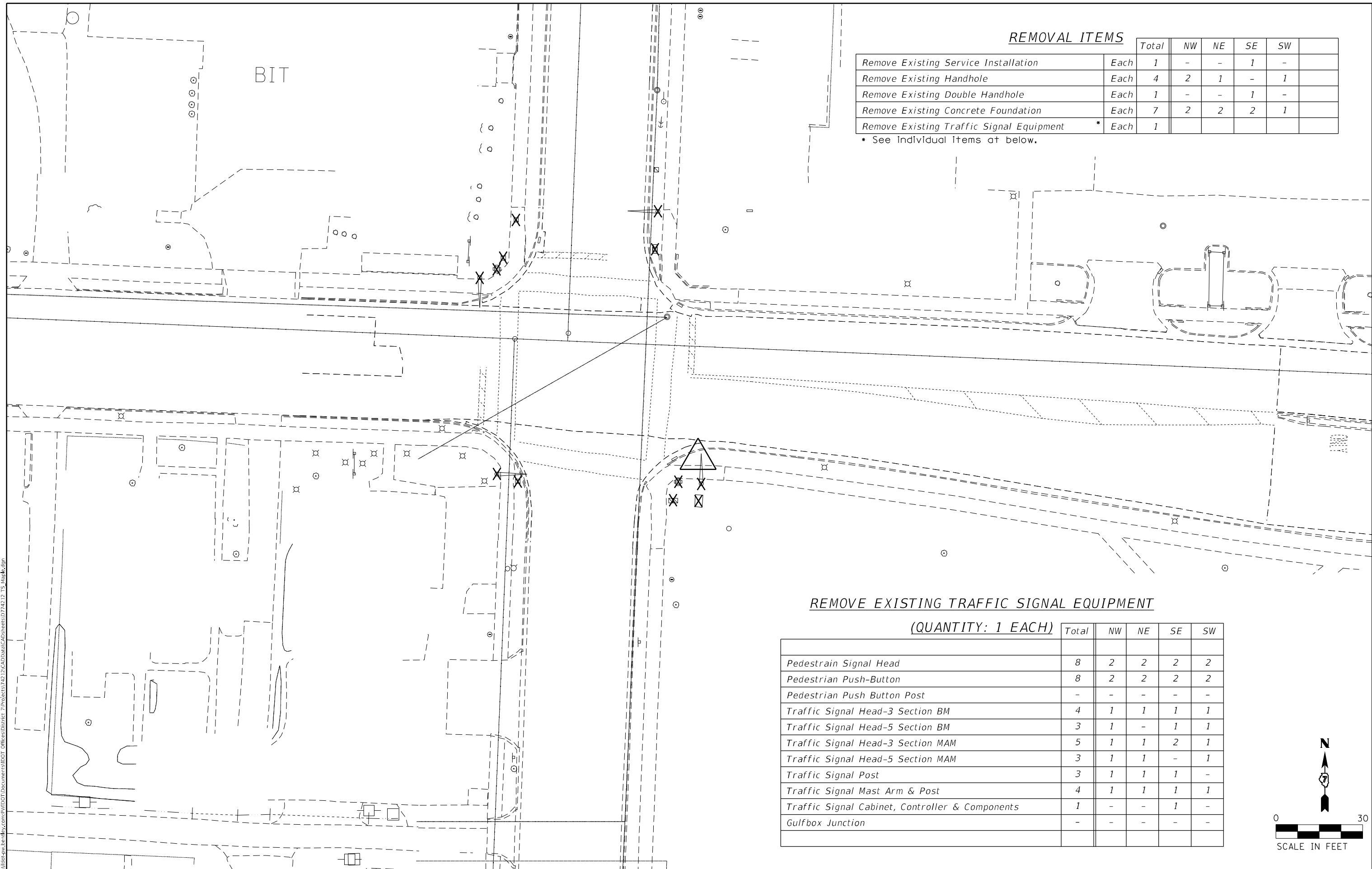
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERSECTION OF FAYETTE & MAPLE ST TEMPORARY SIGNALS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R		385	268
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



REMOVAL ITEMS

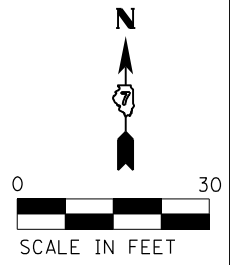
		Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	1	-	-	1	-
Remove Existing Handhole	Each	4	2	1	-	1
Remove Existing Double Handhole	Each	1	-	-	1	-
Remove Existing Concrete Foundation	Each	7	2	2	2	1
Remove Existing Traffic Signal Equipment	* Each	1				

* See individual items at below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	-	-	-	-	-
Traffic Signal Head-3 Section BM	4	1	1	1	1
Traffic Signal Head-5 Section BM	3	1	-	1	1
Traffic Signal Head-3 Section MAM	5	1	1	2	1
Traffic Signal Head-5 Section MAM	3	1	1	-	1
Traffic Signal Post	3	1	1	1	-
Traffic Signal Mast Arm & Post	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	-	1	-
Gulfbox Junction	-	-	-	-	-



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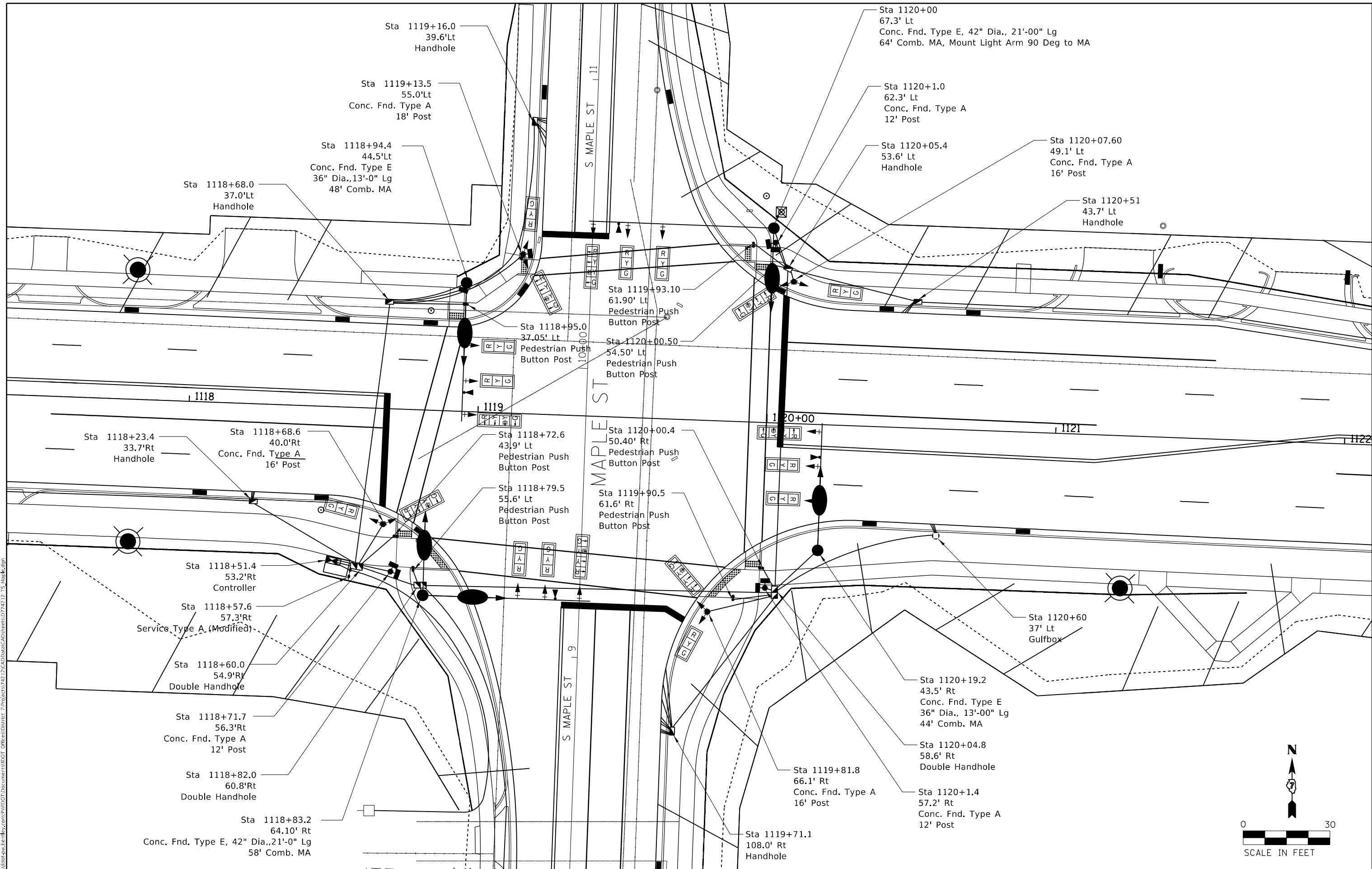
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE & MAPLE ST
REMOVAL ITEMS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 95	SECTION (182)R	COUNTY	TOTAL SHEETS 385	SHEET NO. 269
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 10/21/2022	DATE -	REVISED -

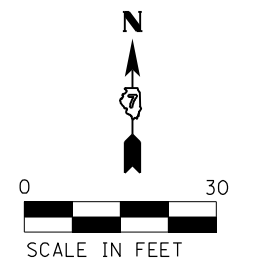
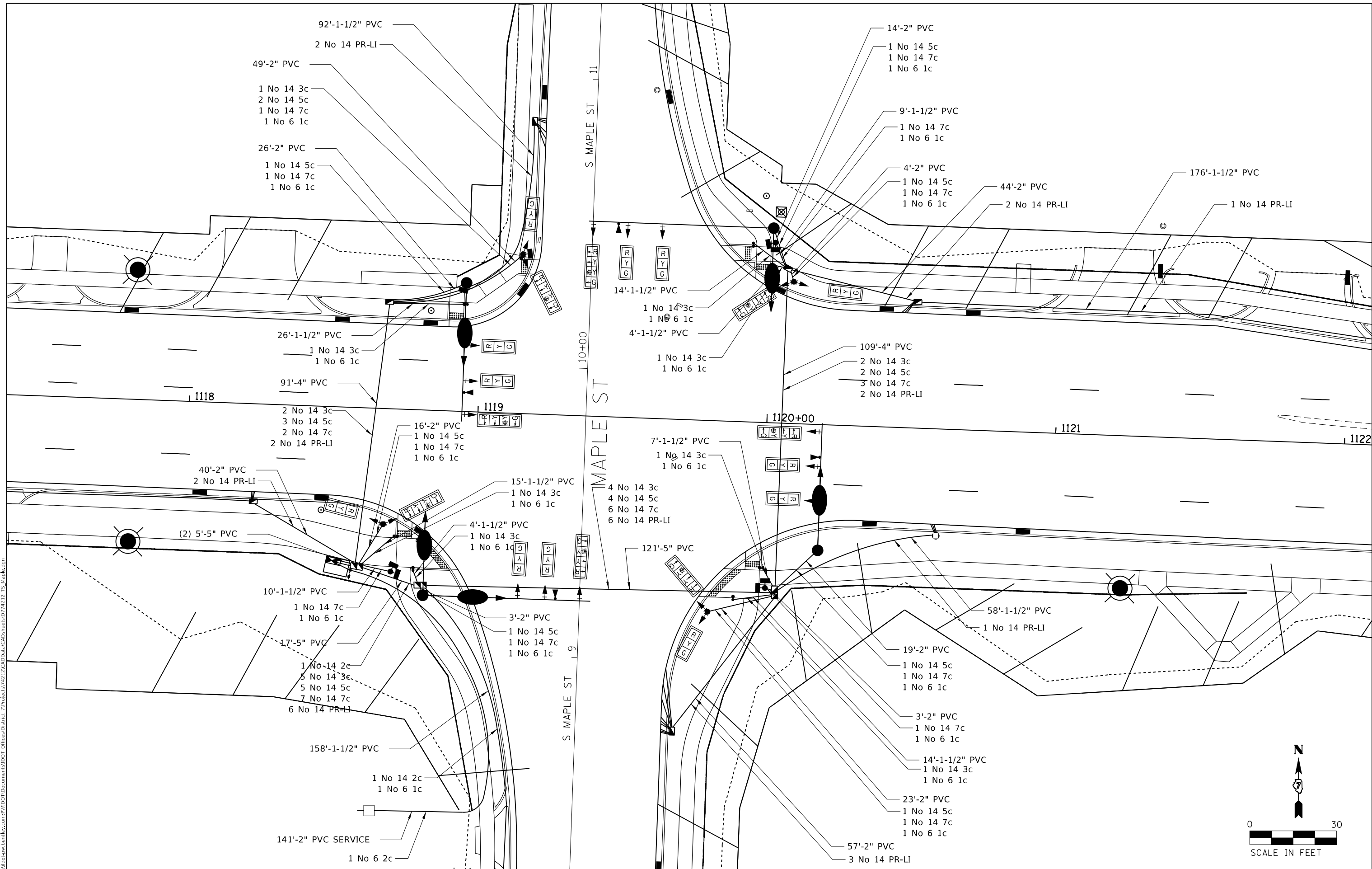
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & MAPLE ST
LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	270
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 10/21/2022	DATE -	REVISED -

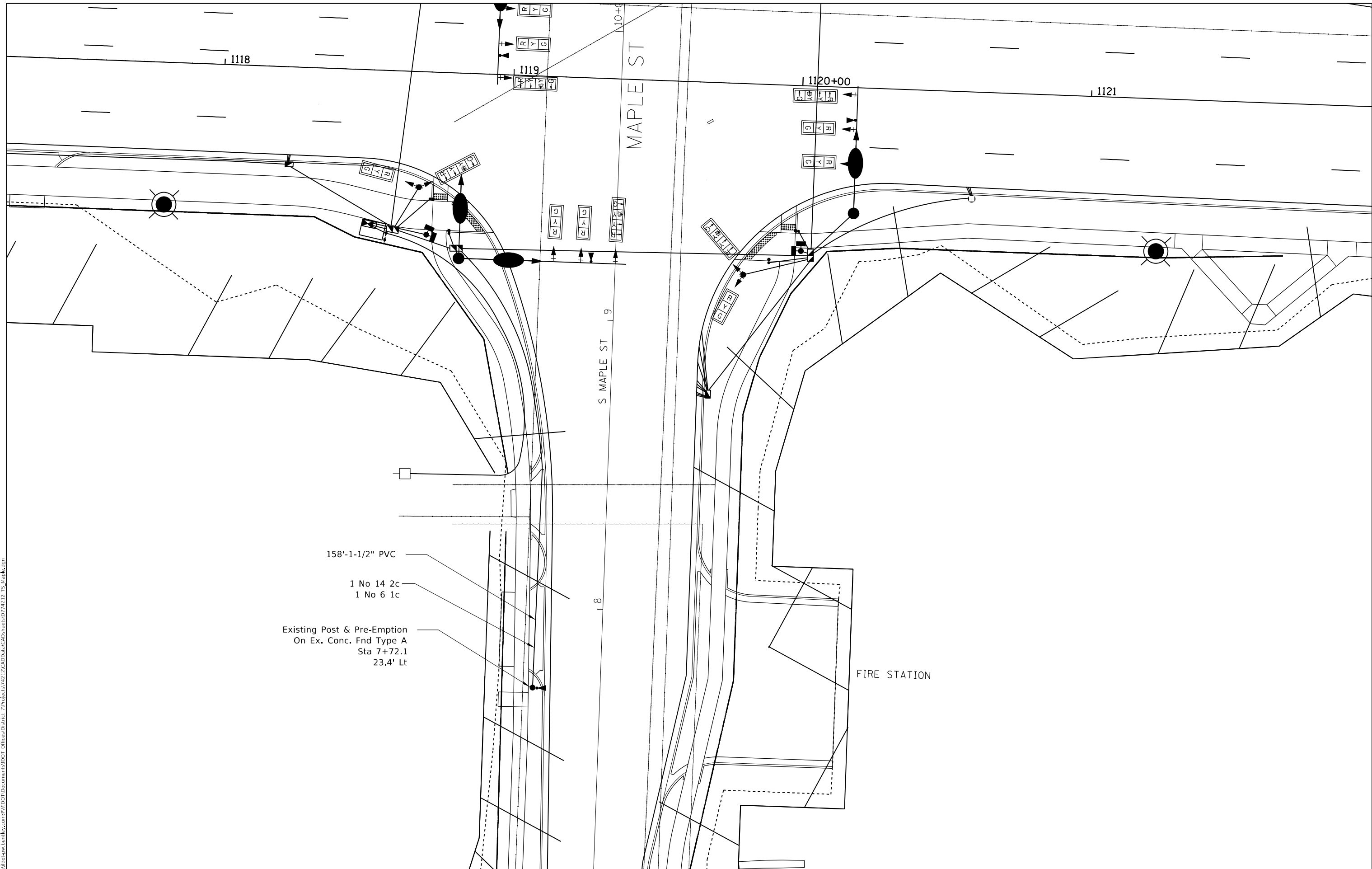
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF FAYETTE AVE & MAPLE ST
CABLE LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R		385	271
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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158'-1-1/2" PVC
 1 No 14 2c
 1 No 6 1c
 Existing Post & Pre-Emption
 On Ex. Conc. Fnd Type A
 Sta 7+72.1
 23.4' Lt

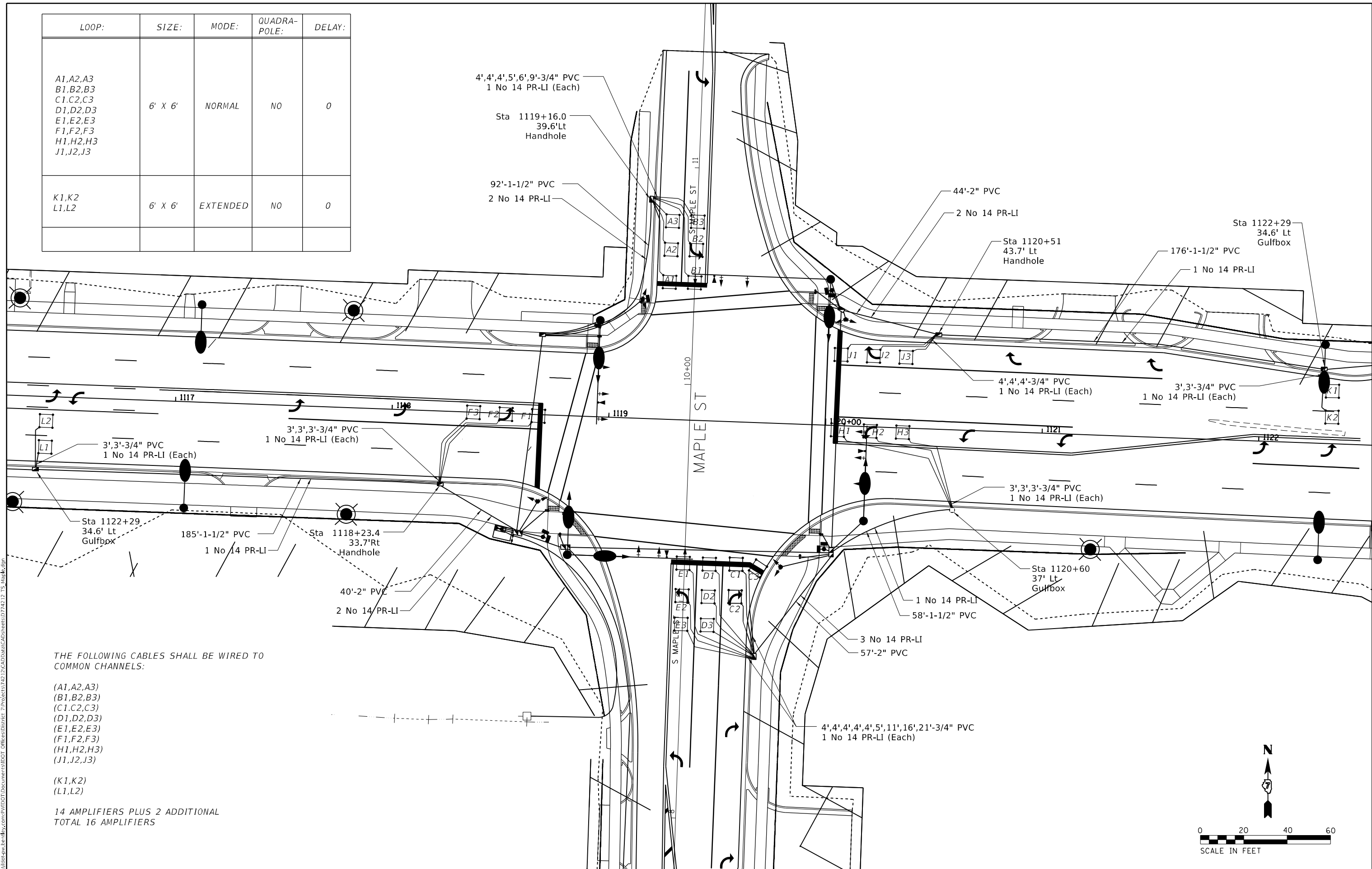
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & MAPLE ST
 FIRE STATION PRE-EMPTION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	272
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3 B1,B2,B3 C1,C2,C3 D1,D2,D3 E1,E2,E3 F1,F2,F3 H1,H2,H3 J1,J2,J3	6' X 6'	NORMAL	NO	0
K1,K2 L1,L2	6' X 6'	EXTENDED	NO	0

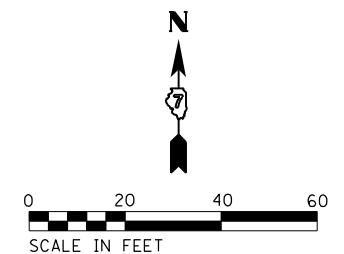


THE FOLLOWING CABLES SHALL BE WIRED TO COMMON CHANNELS:

- (A1,A2,A3)
- (B1,B2,B3)
- (C1,C2,C3)
- (D1,D2,D3)
- (E1,E2,E3)
- (F1,F2,F3)
- (H1,H2,H3)
- (J1,J2,J3)

- (K1,K2)
- (L1,L2)

14 AMPLIFIERS PLUS 2 ADDITIONAL
TOTAL 16 AMPLIFIERS



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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & MAPLE ST
DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	273
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

TO BE COMPLETED
 FALL 2022

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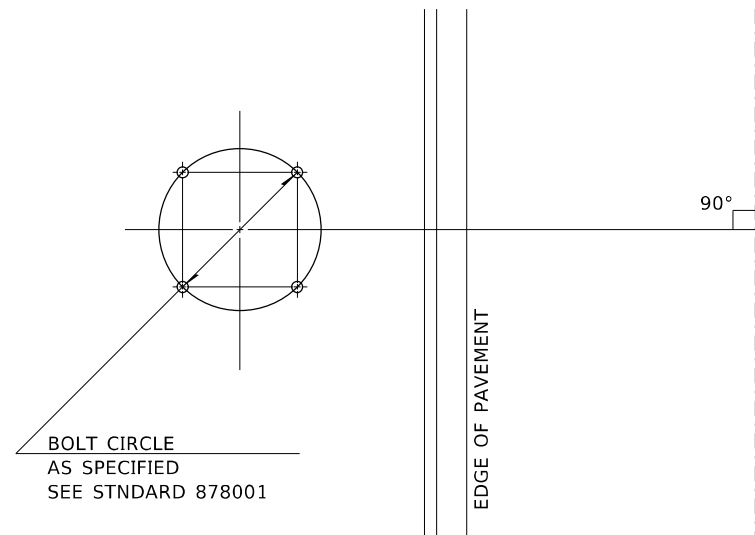
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF FAYETTE AVE & MAPLE ST
 BORING LOGS**

SCALE: SHEET OF SHEETS STA. TO STA.

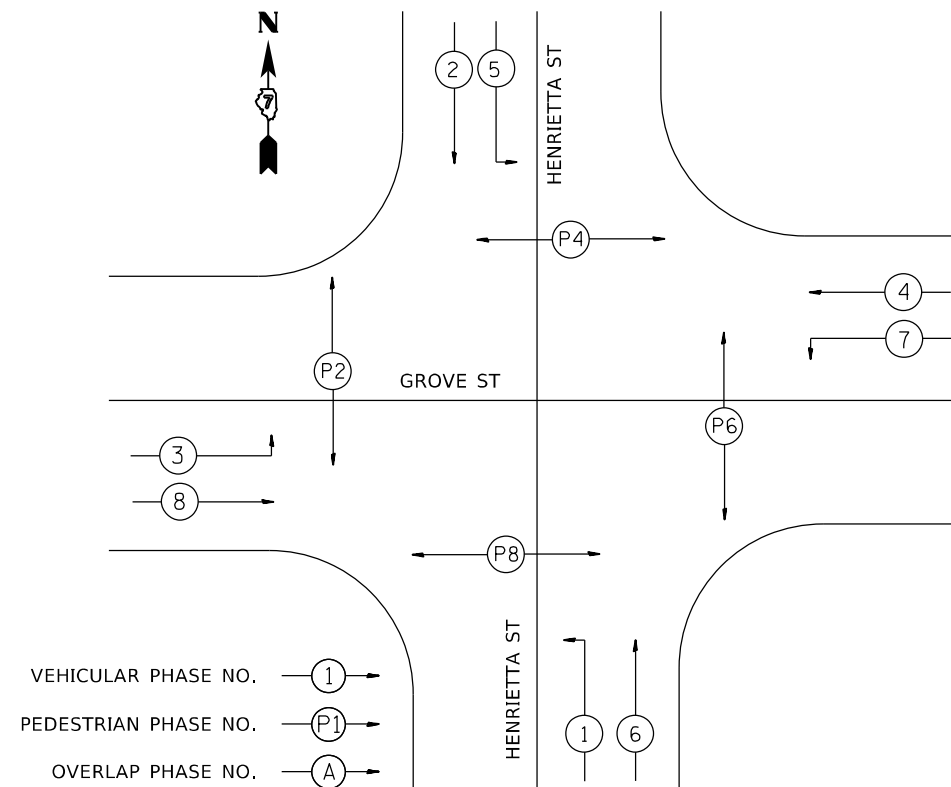
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	274
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**

LEGEND

	Existing	Proposed
SIGNAL POST	○	●
MAST ARM	○—	●—
SIGNAL HEAD W/ BACKPLATE	+▷	+▷
CONTROLLER	⊠	⊠
HANDHOLE	◻	◻
GULFBOX JUNCTION	○	○
DOUBLE HANDHOLE	◻	◻
DETECTOR LOOP	- - - □	□
TRAFFIC SIGNAL HEAD	R Y G	R Y G
EMERGENCY VEHICLE PRE-EMPTION		▶
LUMINAIRE, LED, TYPE IV, ROADWAY, OUTPUT DESIGNATION H 15 FT DAVIT ARM, 40 FT MOUNTING HEIGHT		●—



NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)			NUMBER OF TURNS		
		6 X 6	6 X 30	6 X 40			
		DISTANCE FROM CONTROLLER (FT)					
			0	491	0	627	2 TURNS
			492	982	628	1255	3 TURNS
	0	545	983	1636	1256	2091	4 TURNS
	546	818	1637	2455	2092	3136	5 TURNS
	819	1145	2456	3436			6 TURNS
	1146	1527					7 TURNS
	1528	1964					8 TURNS
	1965	2455					9 TURNS
	2456	3000					10 TURNS

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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & GROVE ST
DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	275
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS- GROVE ST

CODE	ITEM	UNIT	QUANTITY
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	185
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	624
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	134
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	282
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	12
81400100	HANDHOLE	EACH	7
81400300	DOUBLE HANDHOLE	EACH	1
81500100	GULFBOX JUNCTION	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1143
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2069
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	1429
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2678
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	845
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	1131
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	3
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	6
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT	EACH	1
87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	1
87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 54 FT	EACH	1
87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 56 FT	EACH	1

CODE	ITEM	UNIT	QUANTITY
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
87900200	DRILL EXISING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
88500100	INDUCTIVE LOOP DETECTOR	EACH	14
88600100	DETECTOR LOOP, TYPE I	FOOT	1696
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	8
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8870300	EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	4

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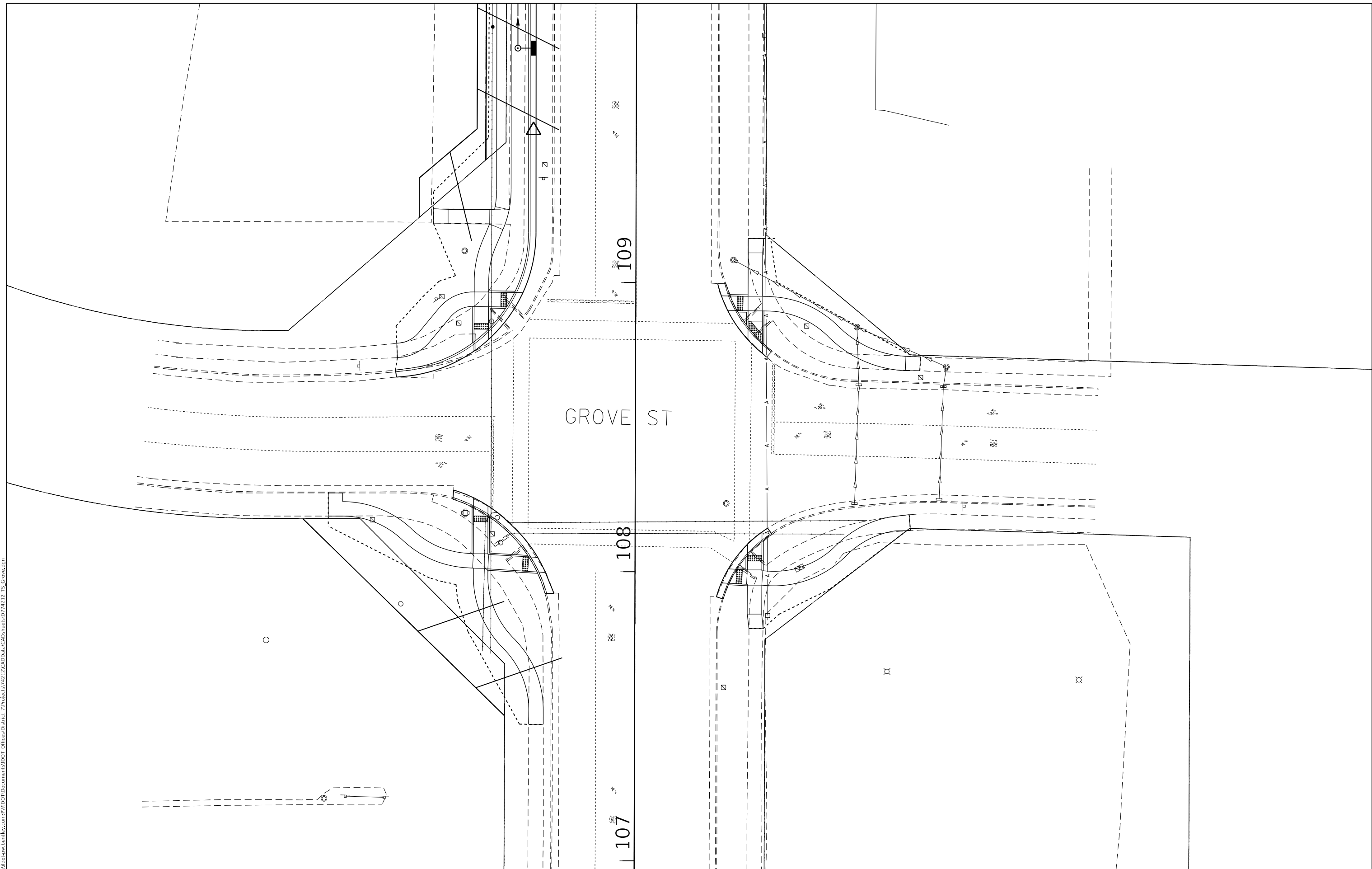
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & GROVE ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	276
			CONTRACT NO. 74212	
ILLINOIS FED. AID PROJECT				

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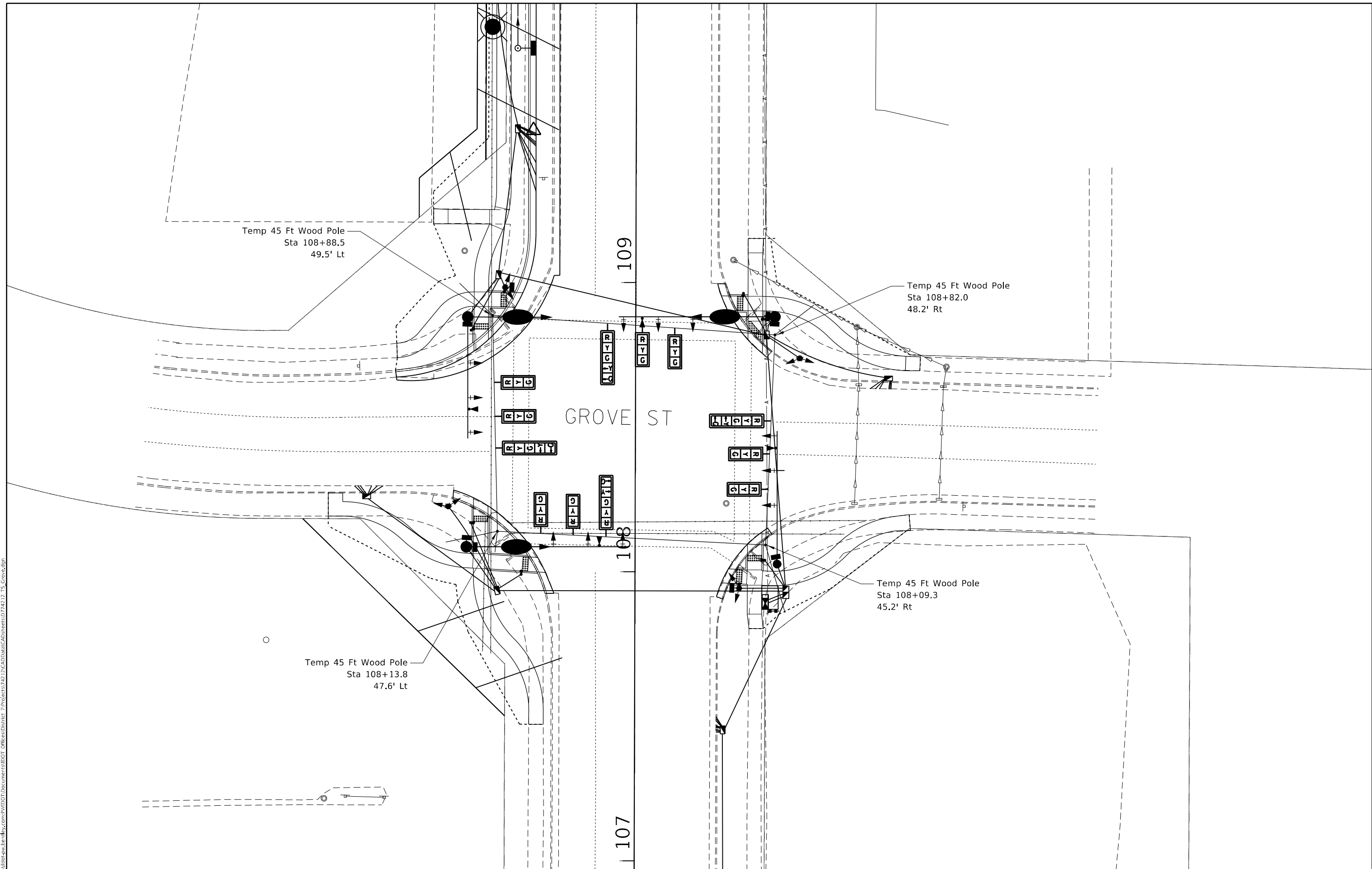
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & GROVE ST
 EXISTING UTILITY LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 95	SECTION (18Z)R	COUNTY EFFINGHAM	TOTAL SHEETS 385	SHEET NO. 277
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74212	

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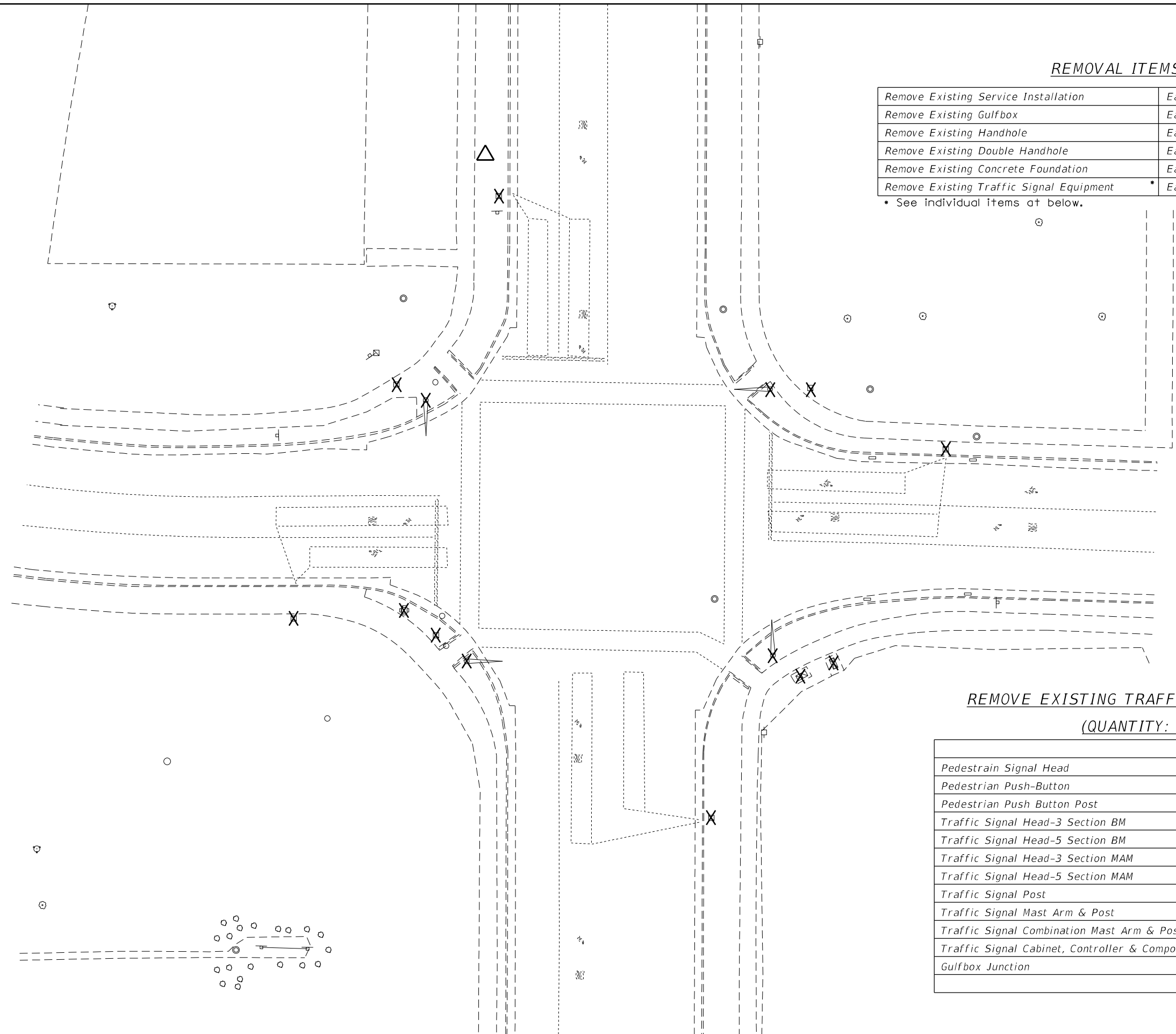
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA & GROVE ST
 TEMPORARY SIGNALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	278
CONTRACT NO. 74212			ILLINOIS FED. AID PROJECT	



REMOVAL ITEMS

		Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	1	-	-	1	-
Remove Existing Gulfbox	Each	4	1	1	1	1
Remove Existing Handhole	Each	4	2	1	-	1
Remove Existing Double Handhole	Each	1	-	-	1	-
Remove Existing Concrete Foundation	Each	5	1	1	1	2
Remove Existing Traffic Signal Equipment *	Each	1				

* See individual items at below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	-	-	-	-	-
Traffic Signal Head-3 Section BM	-	-	-	-	-
Traffic Signal Head-5 Section BM	4	1	1	1	1
Traffic Signal Head-3 Section MAM	5	1	2	1	1
Traffic Signal Head-5 Section MAM	5	1	2	1	1
Traffic Signal Post	1	-	-	-	1
Traffic Signal Mast Arm & Post	2	-	1	1	-
Traffic Signal Combination Mast Arm & Post	2	1	-	-	1
Traffic Signal Cabinet, Controller & Components	1	-	-	1	-
Gulfbox Junction	-	-	-	-	-

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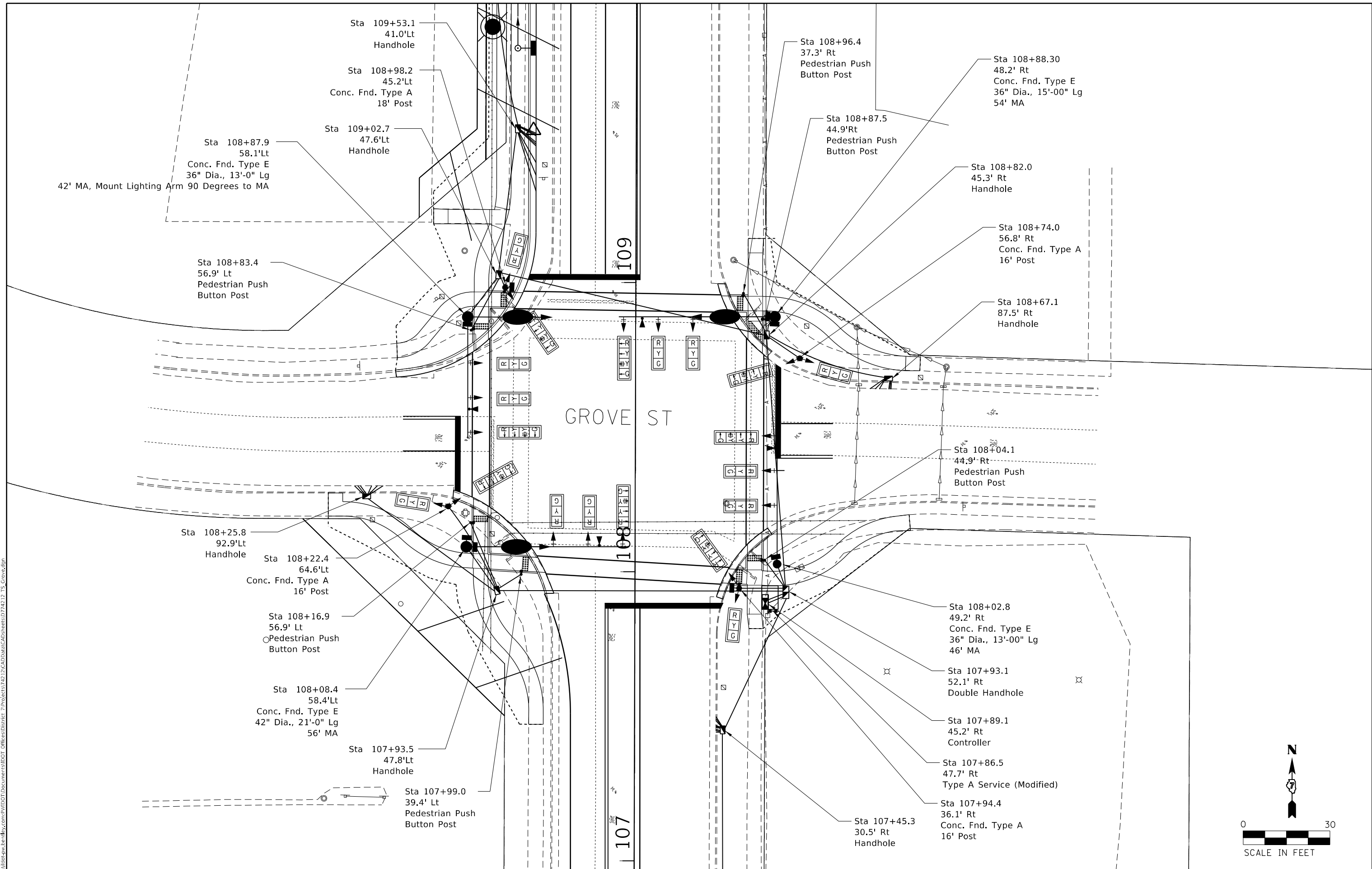
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA & GROVE ST
REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 95	SECTION (182)R	COUNTY EFFINGHAM	TOTAL SHEETS 385	SHEET NO. 279
			CONTRACT NO. 74212	
ILLINOIS FED. AID PROJECT				

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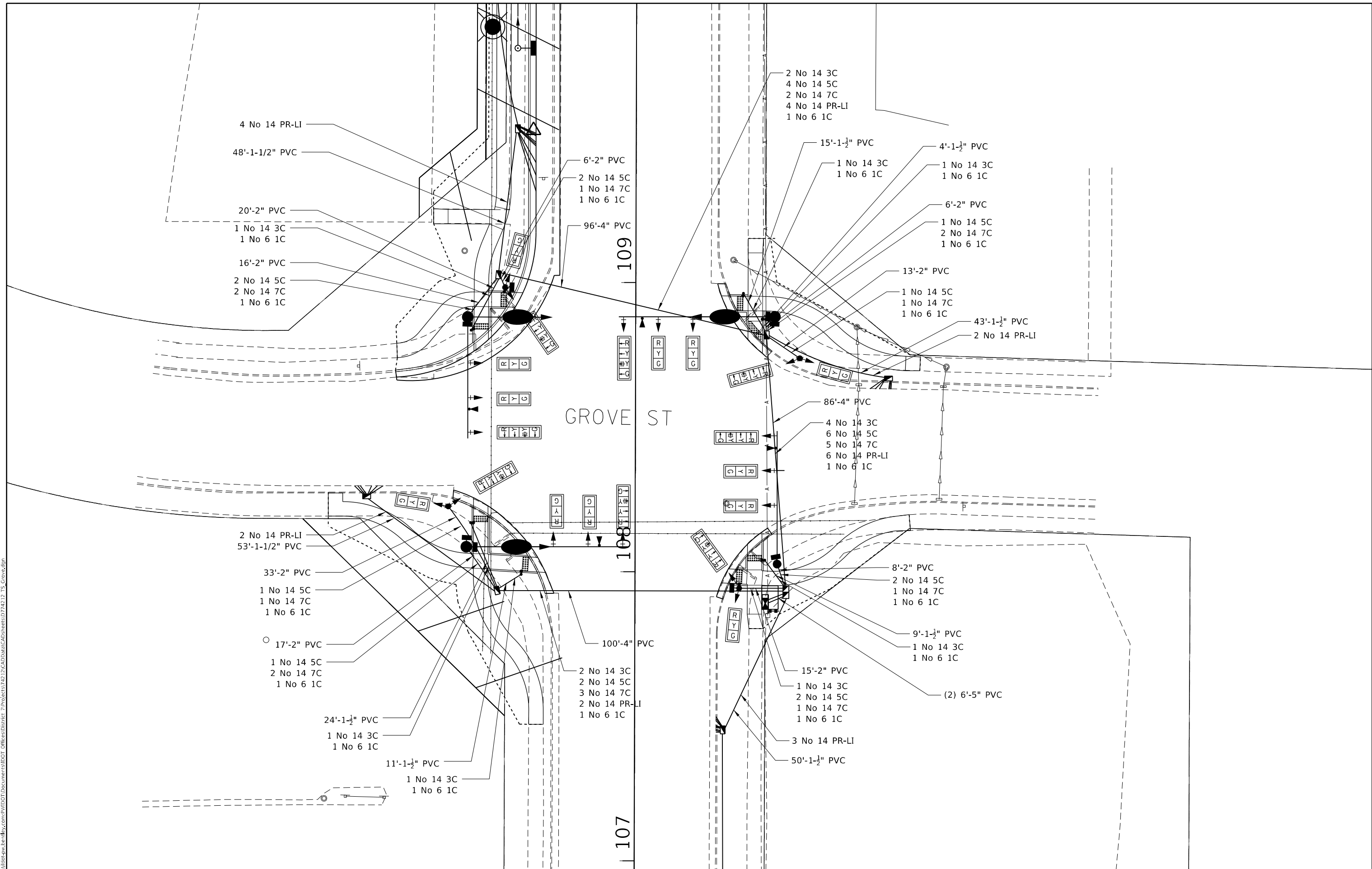
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA & GROVE ST
 SIGNAL LAYOUT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	280
CONTRACT NO. 74212				
SCALE:		SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT

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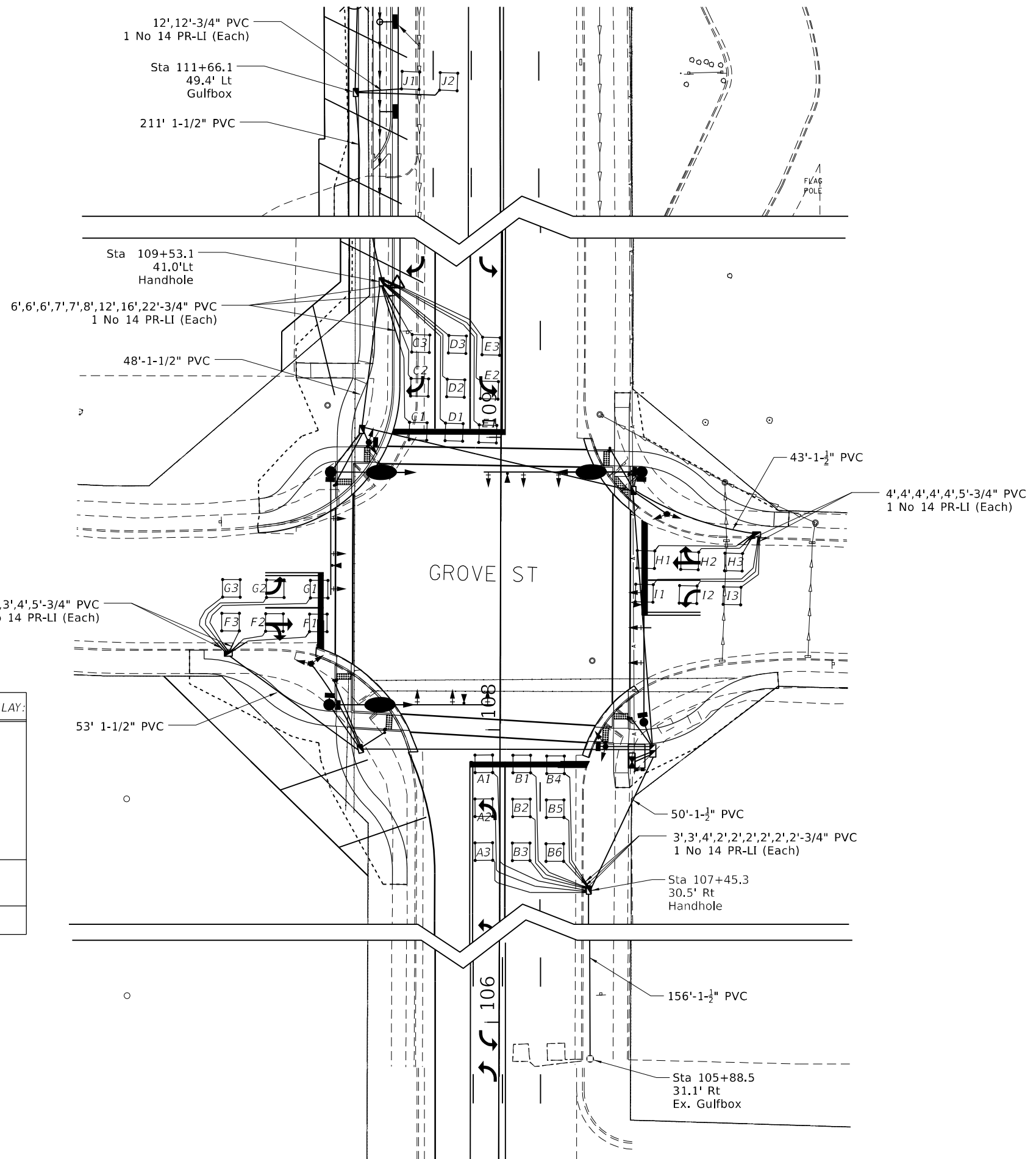
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & GROVE ST
 CABLE LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

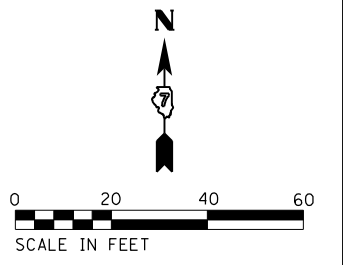
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	281
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A5, B1,B2,B3,B4,B5,,B6, C1,C2,C3 D1,D2,D3 E1,E2,E3 F1,F2,F3 G1,G2,G3 H1,H2,H3 I1,I2,I3	6' X 6'	NORMAL	NO	0
J1,J2	6' X 6'	EXTENDED	NO	0
	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON CHANNELS:
 (A1,A3,A5)
 (B1,B2,B3),(B4,B5,,B6)
 (C1,C2,C3)
 (D1,D2,D3)
 (E1,E2,E3)
 (F1,F2,F3)
 (G1,G2,G3)
 (H1,H2,H3)
 (I1,I2,I3)
 (J1,J2)

11 AMPLIFIERS PLUS 1 ADDITIONAL
 TOTAL 12 AMPLIFIERS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA AVE & GROVE ST
DETECTOR LOOPS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	282
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

TO BE COMPLETED
 FALL 2022

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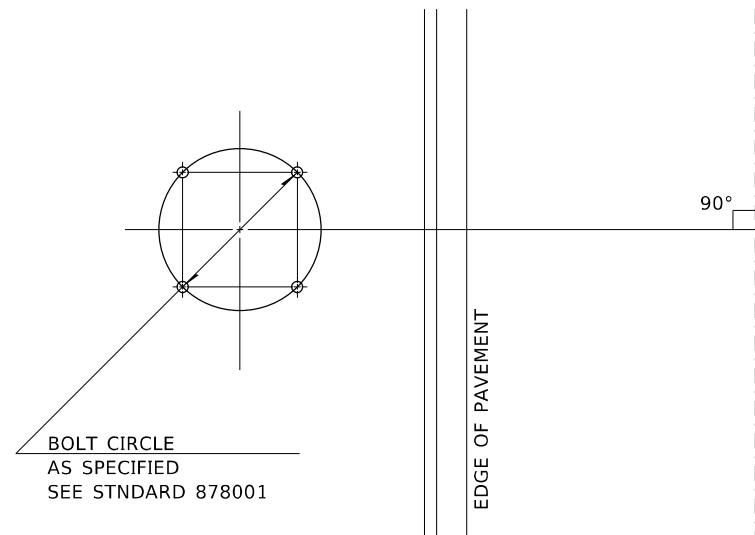
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & GROVE ST
 BORING LOGS**

SCALE: SHEET OF SHEETS STA. TO STA.

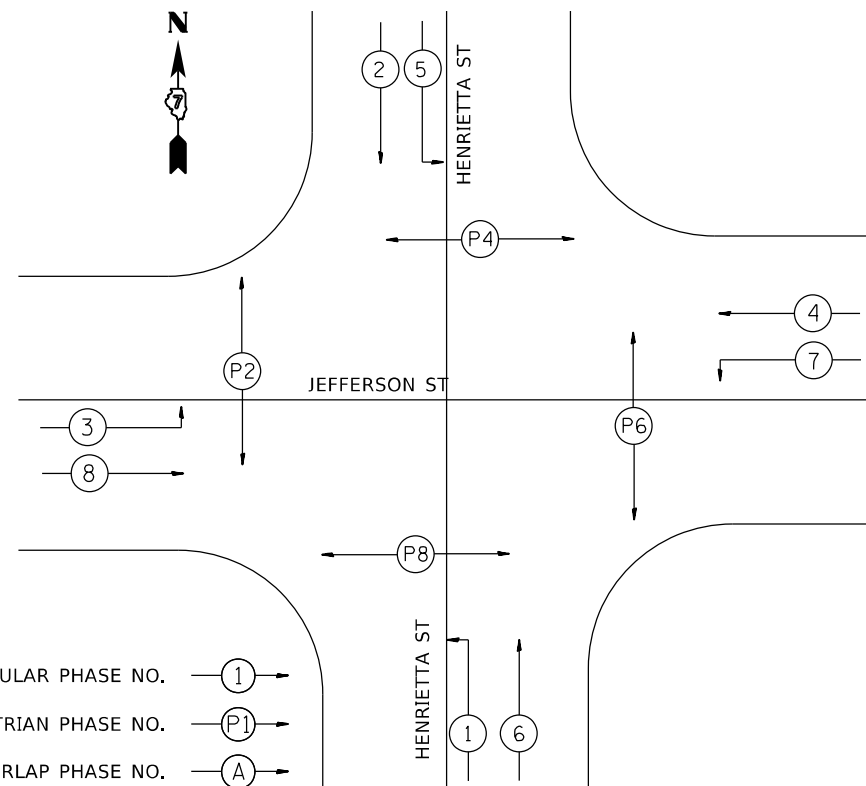
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	283
				CONTRACT NO. 74212
		ILLINOIS	FED. AID PROJECT	



**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**

LEGEND

	Existing	Proposed
SIGNAL POST	○	●
MAST ARM	○—	●—
SIGNAL HEAD W/ BACKPLATE	⊢	⊢
CONTROLLER	⊠	⊠
HANDHOLE	◻	◻
GULFBOX JUNCTION	○	○
DOUBLE HANDHOLE	◻	◻
DETECTOR LOOP	□	□
TRAFFIC SIGNAL HEAD	RYG	RYG
EMERGENCY VEHICLE PRE-EMPTION		⚡
LUMINAIRE, LED, TYPE IV, ROADWAY, OUTPUT DESIGNATION H 15 FT DAVIT ARM, 40 FT MOUNTING HEIGHT		⚡



PHASE DESIGNATION DIAGRAM

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS		
		6 X 6		6 X 30			6 X 40	
		DISTANCE FROM CONTROLLER (FT)						
				0	491	0	627	2 TURNS
				492	982	628	1255	3 TURNS
	0	545	983	1636	1256	2091		4 TURNS
	546	818	1637	2455	2092	3136		5 TURNS
	819	1145	2456	3436				6 TURNS
	1146	1527						7 TURNS
	1528	1964						8 TURNS
	1965	2455						9 TURNS
	2456	3000						10 TURNS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & JEFFERSON ST
DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	284
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS- JEFFERSON ST

CODE	ITEM	UNIT	QUANTITY
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	112
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	449
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	346
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	335
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	4
81400100	HANDHOLE	EACH	7
81400300	DOUBLE HANDHOLE	EACH	1
81500100	GULFBOX JUNCTION	EACH	2
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1354
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2471
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	1756
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2133
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	108
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	1177
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	4
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	3
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 30 FT	EACH	1
87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	1
87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1

CODE	ITEM	UNIT	QUANTITY
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
87900200	DRILL EXISING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
88500100	INDUCTIVE LOOP DETECTOR	EACH	14
88600100	DETECTOR LOOP, TYPE I	FOOT	1650
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	3
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8775040	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT WITH DUAL 15 FT LIGHTING ARM AT 40 FT MOUNTING HEIGHT	EACH	1
X8870300	EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	4

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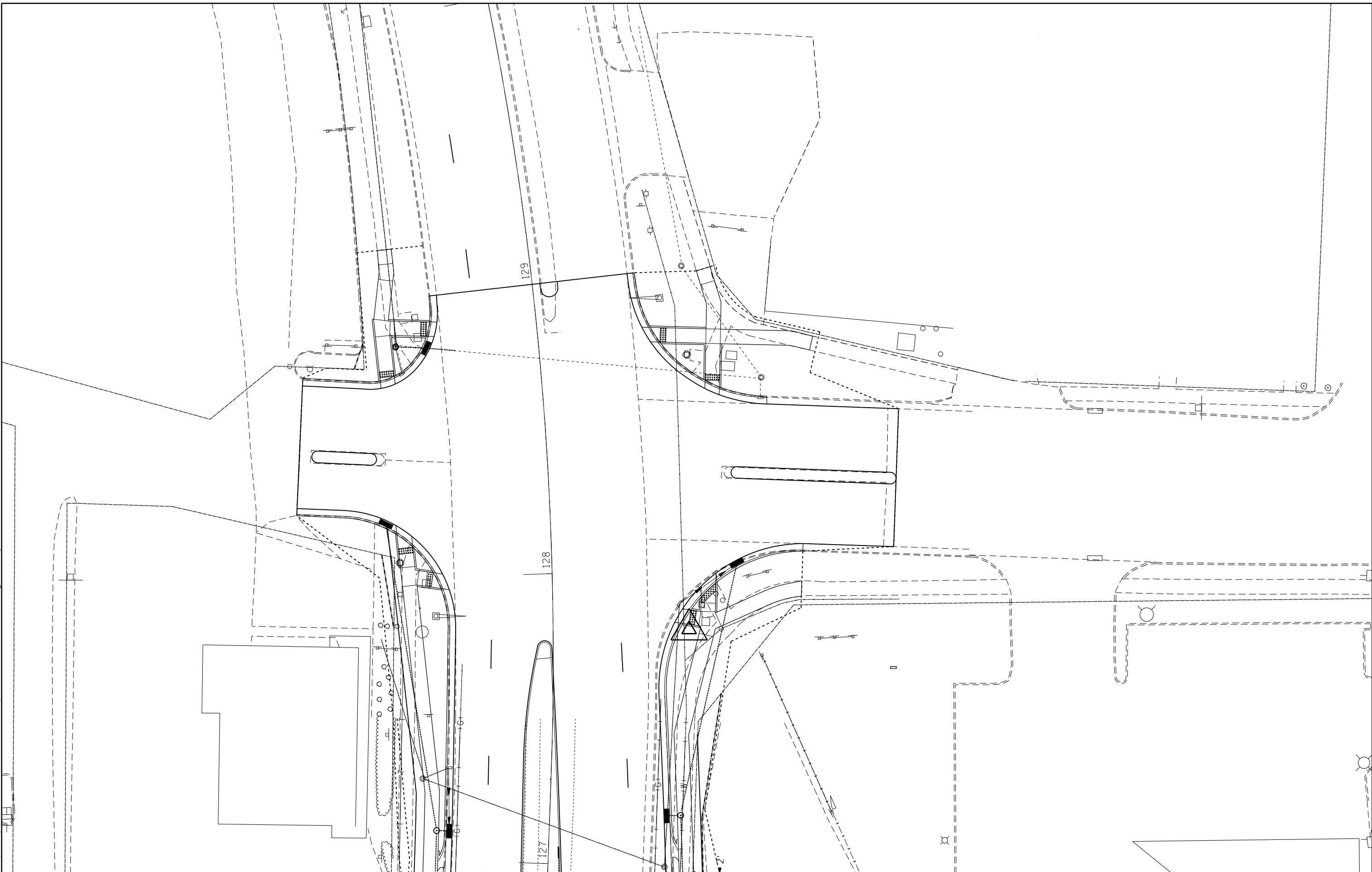
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA AVE & JEFFERSON ST
BILL OF MATERIALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	285
			CONTRACT NO. 74212	
		ILLINOIS	FED. AID PROJECT	

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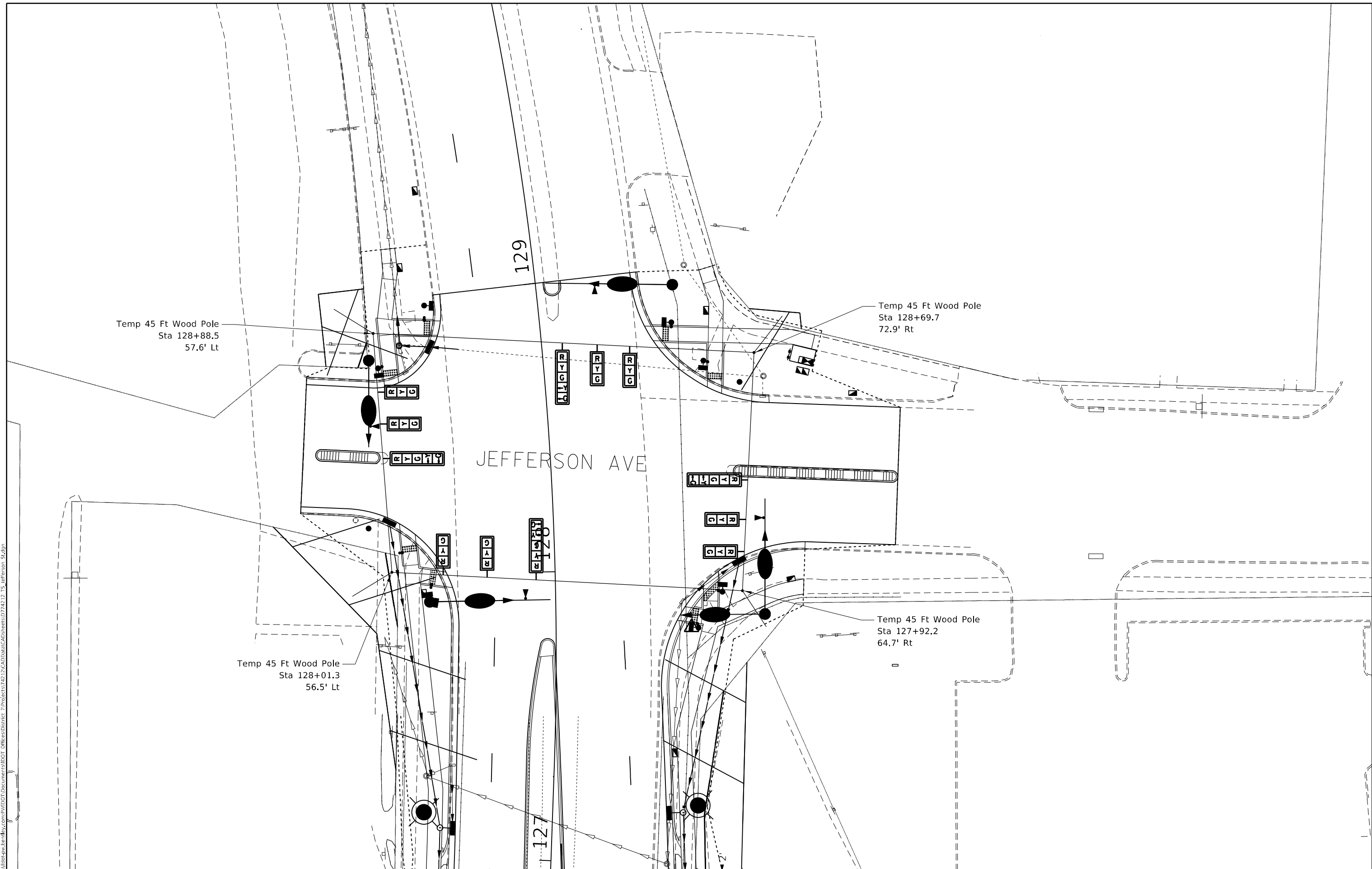
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA AVE & JEFFERSON ST				
EXISTING UTILITY LAYOUT				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	286
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA & JEFFERSON ST
TEMPORARY SIGNALS

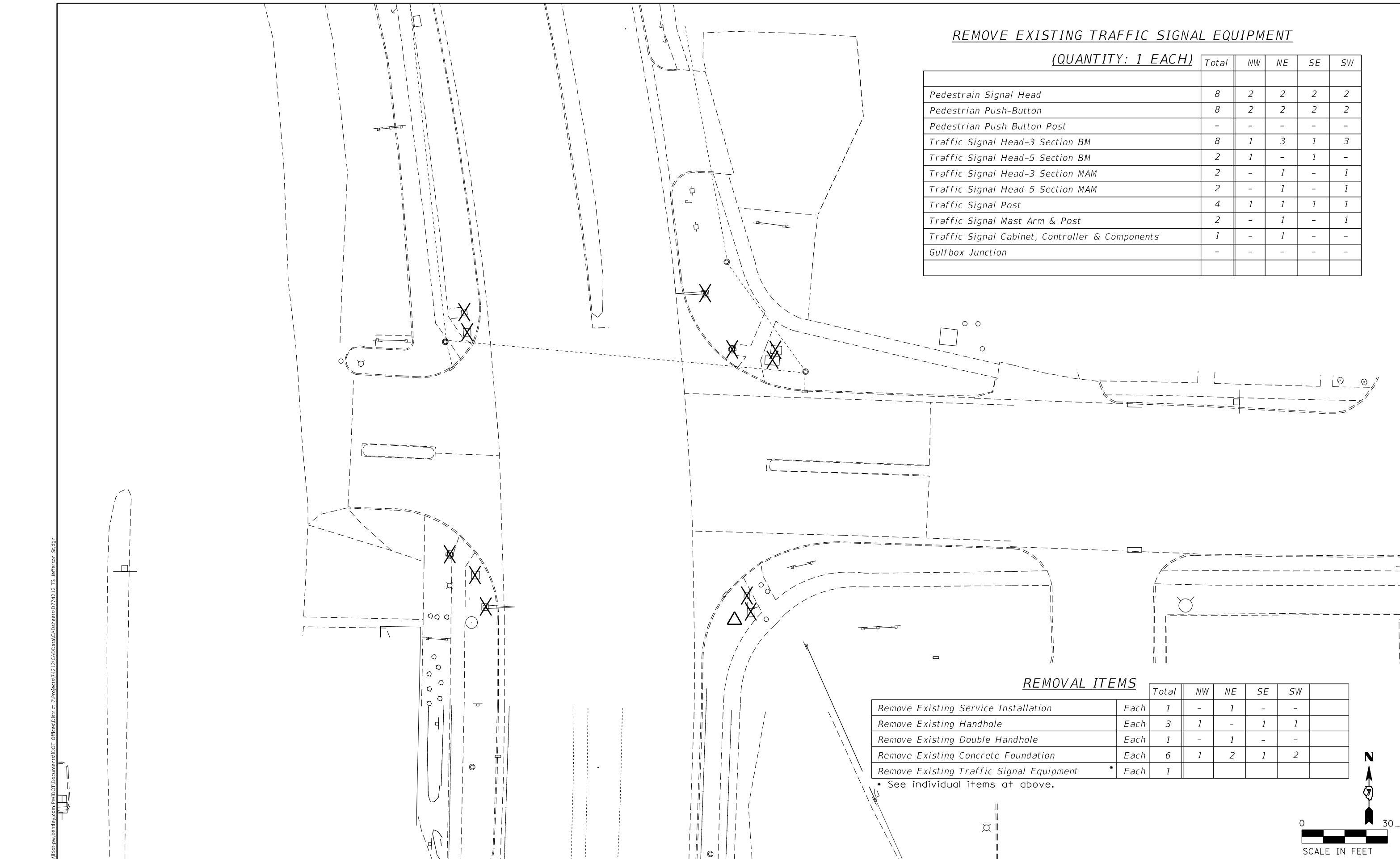
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	287
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

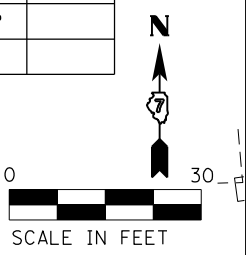
	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	-	-	-	-	-
Traffic Signal Head-3 Section BM	8	1	3	1	3
Traffic Signal Head-5 Section BM	2	1	-	1	-
Traffic Signal Head-3 Section MAM	2	-	1	-	1
Traffic Signal Head-5 Section MAM	2	-	1	-	1
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm & Post	2	-	1	-	1
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbox Junction	-	-	-	-	-



REMOVAL ITEMS

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each 3	1	-	1	1
Remove Existing Double Handhole	Each 1	-	1	-	-
Remove Existing Concrete Foundation	Each 6	1	2	1	2
Remove Existing Traffic Signal Equipment	Each 1				

* See individual items at above.



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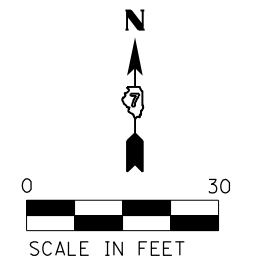
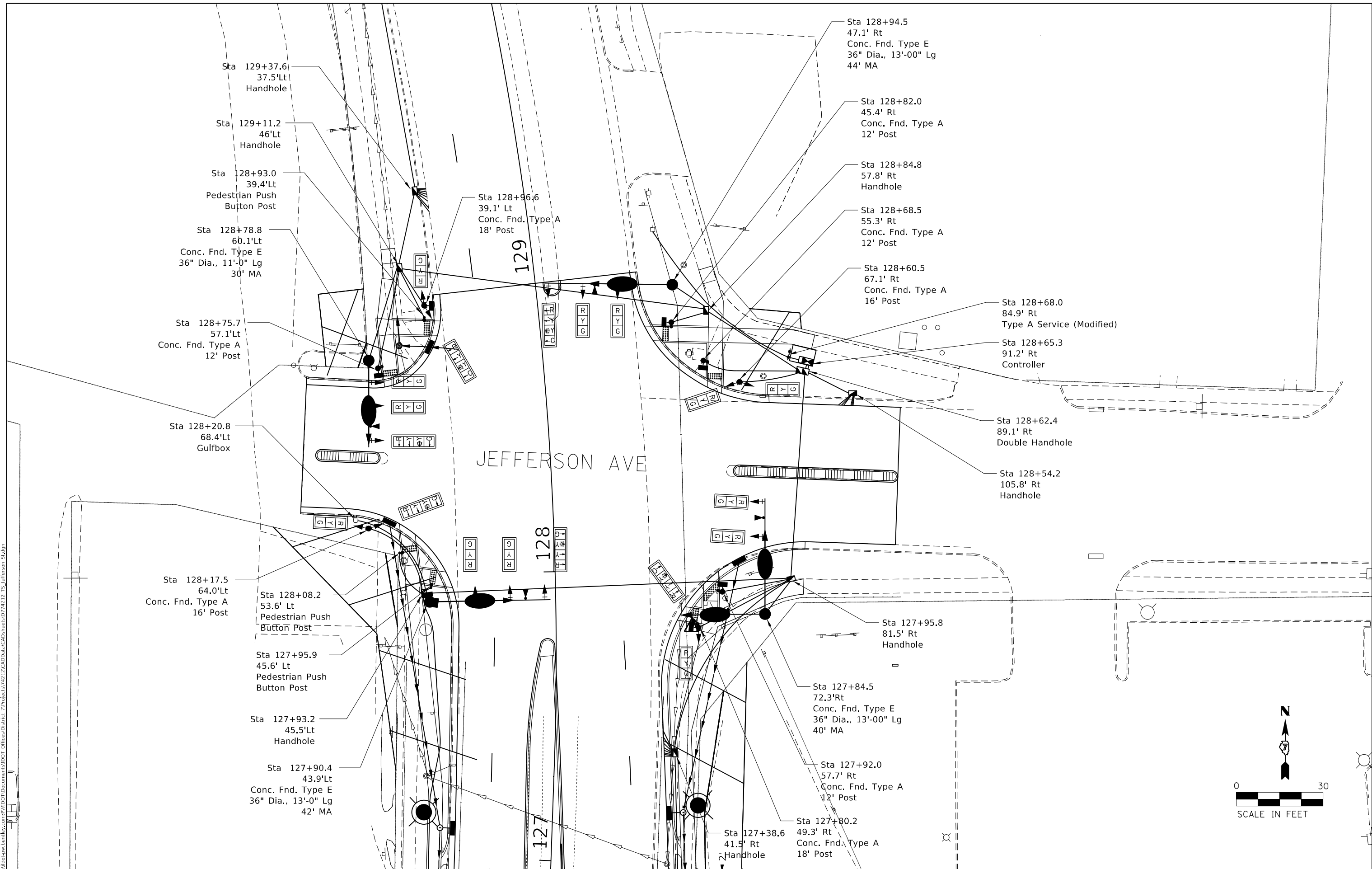
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA & JEFFERSON ST
REMOVAL ITEMS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	288
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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USER NAME = Mona.Steffen	DESIGNED -	REVISD -
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PLOT SCALE = 30,0000 * / in.	CHECKED -	REVISD -
PLOT DATE = 10/21/2022	DATE -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA & JEFFERSON ST
SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	289
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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- 25'-1-1/2" PVC
- 4 No 14 PR-LI
- 17'-1-1/2" PVC
- 1 No 14 3C
- 1 No 6 1C
- 34'-1-1/2" PVC
- 1 No 14 3C
- 1 No 14 5C
- 1 No 6 1C
- 34'-2" PVC
- 1 No 14 5C
- 1 No 14 7C
- 1 No 6 1C
- 30'-1-1/2" PVC
- 1 No 14 5C
- 1 No 14 7C
- 1 No 6 1C
- 17'-1-1/2" PVC
- 1 No 14 3C
- 1 No 6 1C
- 2'-1-1/2" PVC
- 1 No 14 3C
- 1 No 6 1C
- 2'-2" PVC
- 1 No 14 5C
- 2 No 14 7C
- 1 No 6 1C

- 14'-2" PVC
- 2 No 14 5C
- 1 No 14 7C
- 1 No 6 1C
- 106'-4" PVC
- 2 No 14 3C
- 4 No 14 5C
- 2 No 14 7C
- 4 No 14 PR-LI
- 1 No 6 1C
- 37'-1-1/2" PVC

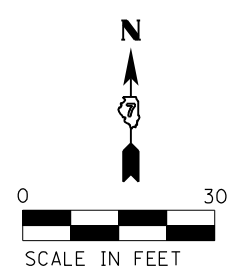
- 14'-2" PVC
- 1 No 14 5C
- 1 No 14 7C
- 1 No 6 1C
- 10'-2" PVC
- 1 No 14 3C
- 1 No 14 5C
- 1 No 6 1C
- 65'-2" PVC SERVICE
- 37'-4" PVC
- 33'-2" PVC
- 1 No 14 3C
- 1 No 14 5C
- 1 No 6 1C
- 21'-2" PVC
- 2 No 14 5C
- 1 No 6 1C
- (2) 2'-5" PVC
- 16'-1-1/2" PVC
- 2 No 14 PR-LI
- 70'-4" PVC
- 4 No 14 3C
- 6 No 14 5C
- 4 No 14 7C
- 5 No 14 PR-LI
- 1 No 6 1C
- 2 No 14 3C
- 2 No 14 5C
- 3 No 14 7C
- 1 No 14 PR-LI
- 1 No 6 1C
- 125'-4" PVC
- 15'-2" PVC
- 1 No 14 5C
- 1 No 6 1C
- 24'-1-1/2" PVC
- 1 No 14 3C
- 1 No 14 5C
- 1 No 6 1C
- 35'-2" PVC
- 1 No 14 3C
- 2 No 14 5C
- 1 No 14 7C
- 1 No 6 1C
- 73'-2" PVC
- 4 No 14 PR-LI

JEFFERSON AVE

129

128

127



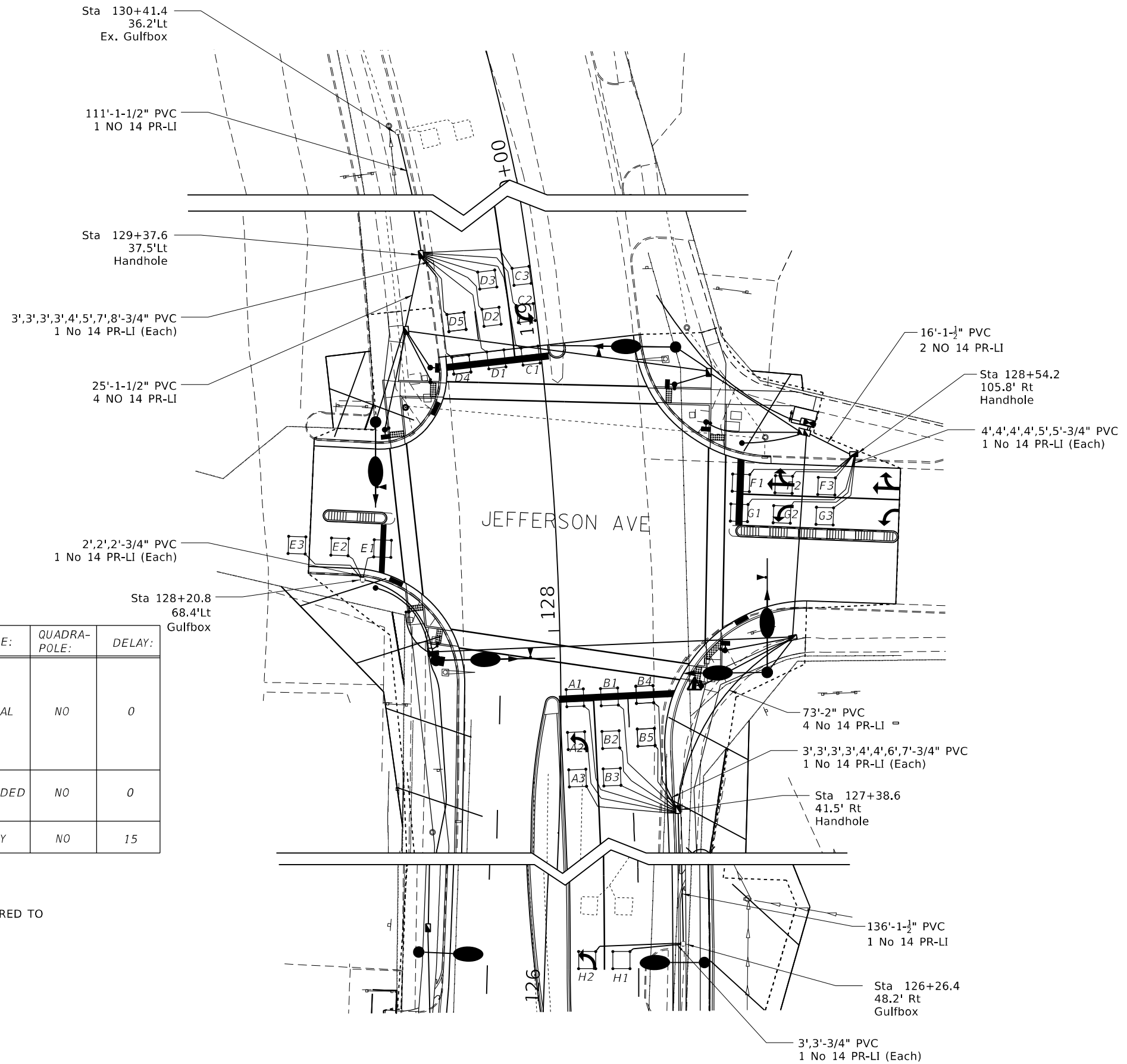
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF HENRIETTA AVE & JEFFERSON ST
CABLE LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	290
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA- POLE:	DELAY:
(A1,A2,A3) (B1,B2,B3),(B4,B5,B6) (C1,C1,C2) (D1,D2,D3),(D4,D5,D6) (E1,E2,E3) (F1,F2,F3) (G1,G2,G3)	6' X 6'	NORMAL	NO	0
(H1,H2)	6' X 6'	EXTENDED	NO	0
	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON CHANNELS:
 (A1,A2,A3)
 (B1,B2,B3),(B4,B5,B6)
 (C1,C1,C2)
 (D1,D2,D3),(D4,D5,D6)
 (E1,E2,E3)
 (F1,F2,F3)
 (G1,G2,G3)

(H1,H2)

10 AMPLIFIERS PLUS 2 ADDITIONAL
 TOTAL 12 AMPLIFIERS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & JEFFERSON ST
 DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	291
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

TO BE COMPLETED
FALL 2022

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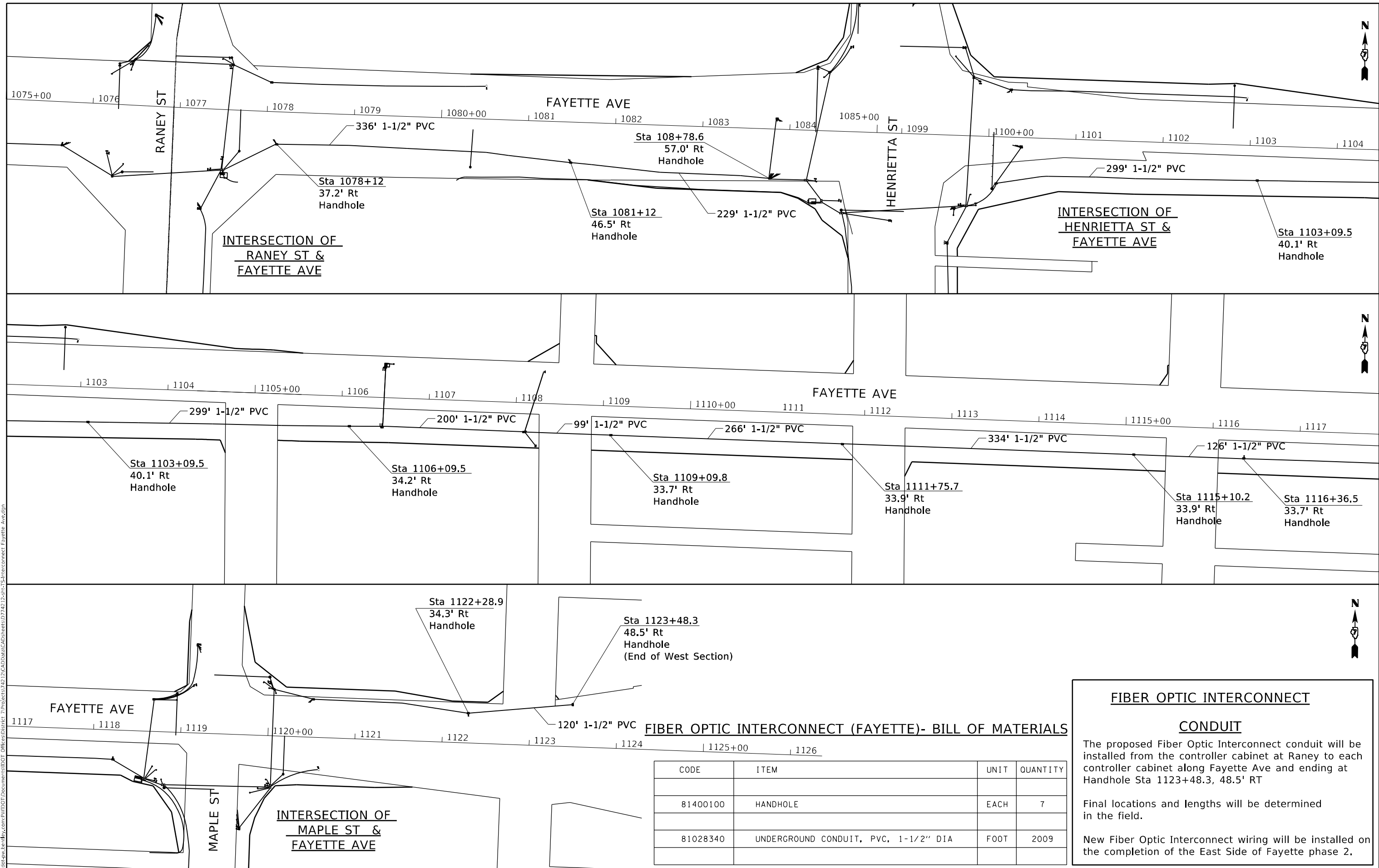
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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF HENRIETTA AVE & JEFFERSON ST
BORING LOGS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	EFFINGHAM	385	292
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



FIBER OPTIC INTERCONNECT (FAYETTE)- BILL OF MATERIALS

CODE	ITEM	UNIT	QUANTITY
81400100	HANDHOLE	EACH	7
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	2009

**FIBER OPTIC INTERCONNECT
CONDUIT**

The proposed Fiber Optic Interconnect conduit will be installed from the controller cabinet at Raney to each controller cabinet along Fayette Ave and ending at Handhole Sta 1123+48.3, 48.5' RT

Final locations and lengths will be determined in the field.

New Fiber Optic Interconnect wiring will be installed on the completion of the East Side of Fayette phase 2.

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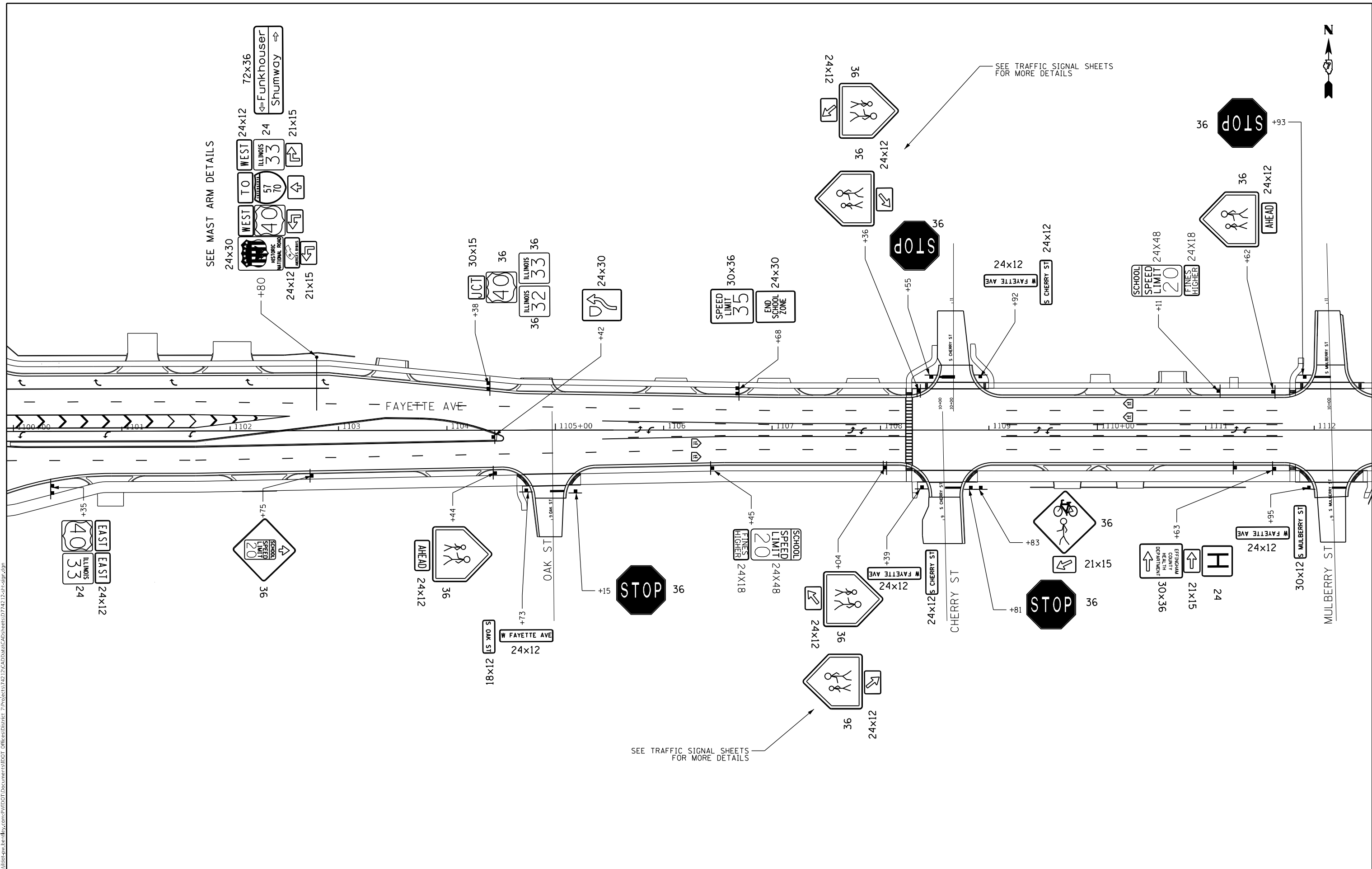
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNALS INTERCONNECT FAYETTE AVE	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	EFFINGHAM	385	293
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				

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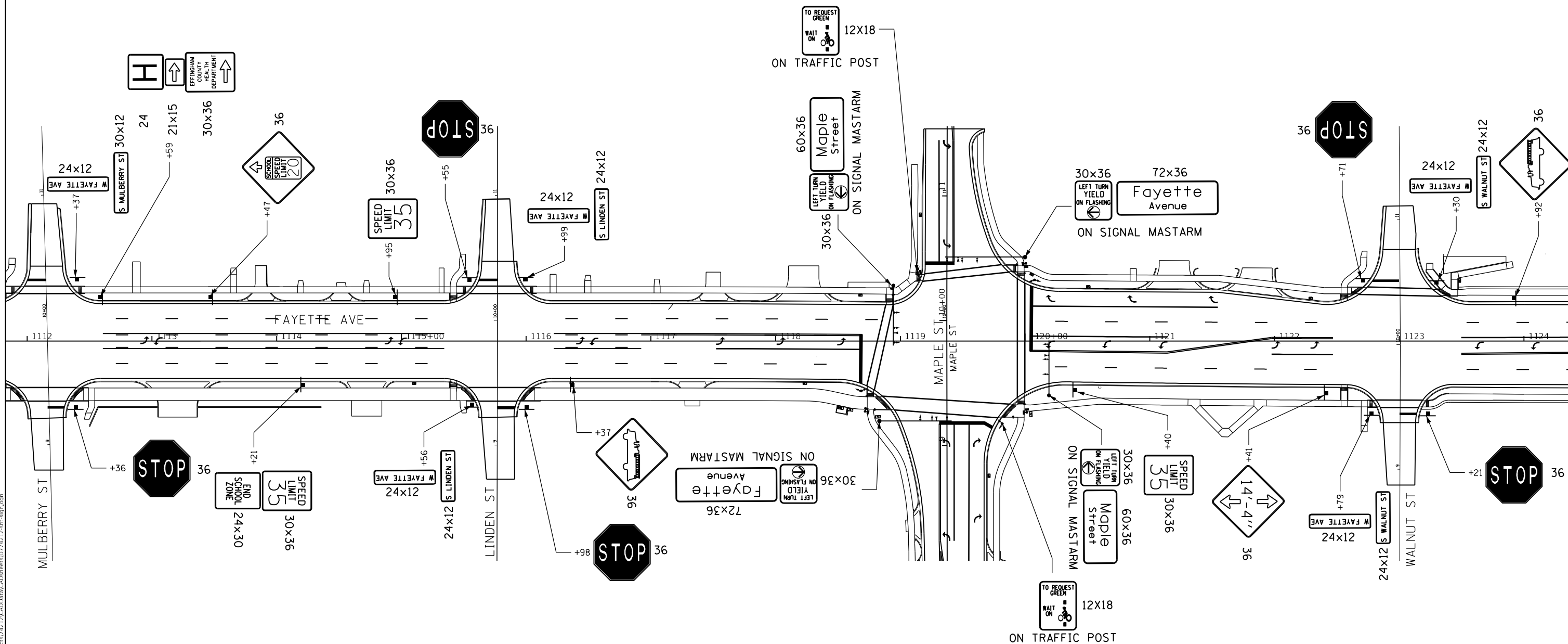


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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAYETTE AVE SIGN PLANS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	296
CONTRACT NO. 74212				
ILLINOIS		FED. AID PROJECT		



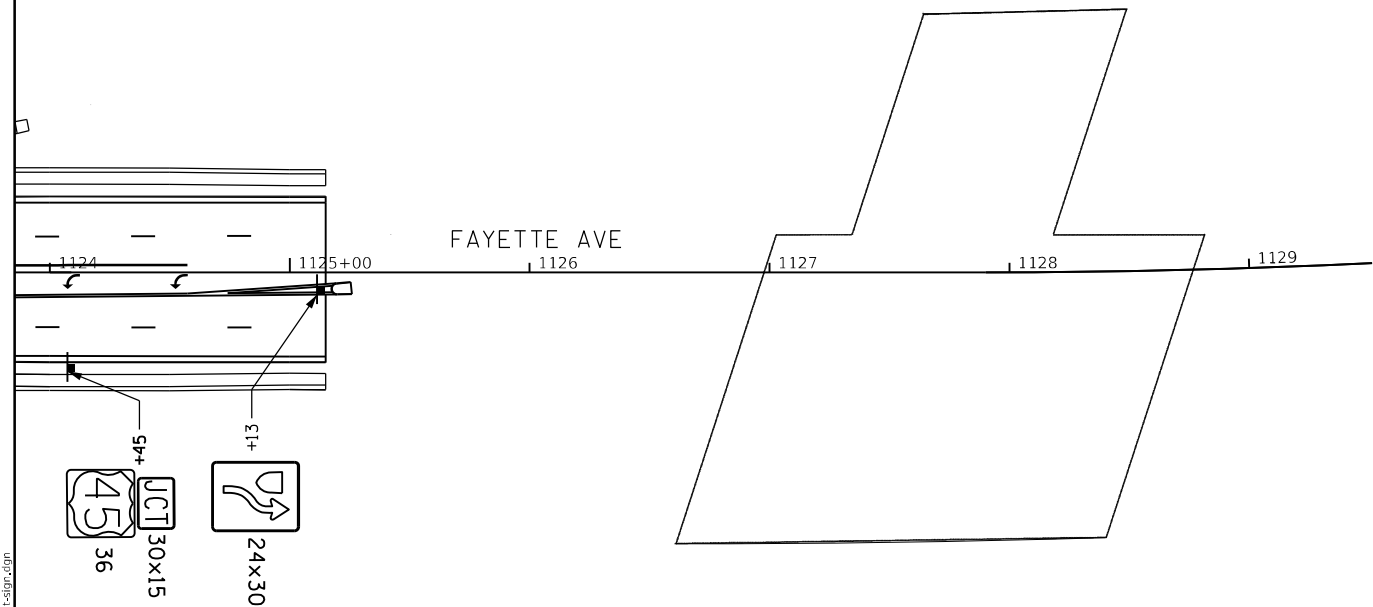
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE SIGN PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 95	SECTION (182)R	COUNTY Effingham	TOTAL SHEETS 385	SHEET NO. 297
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



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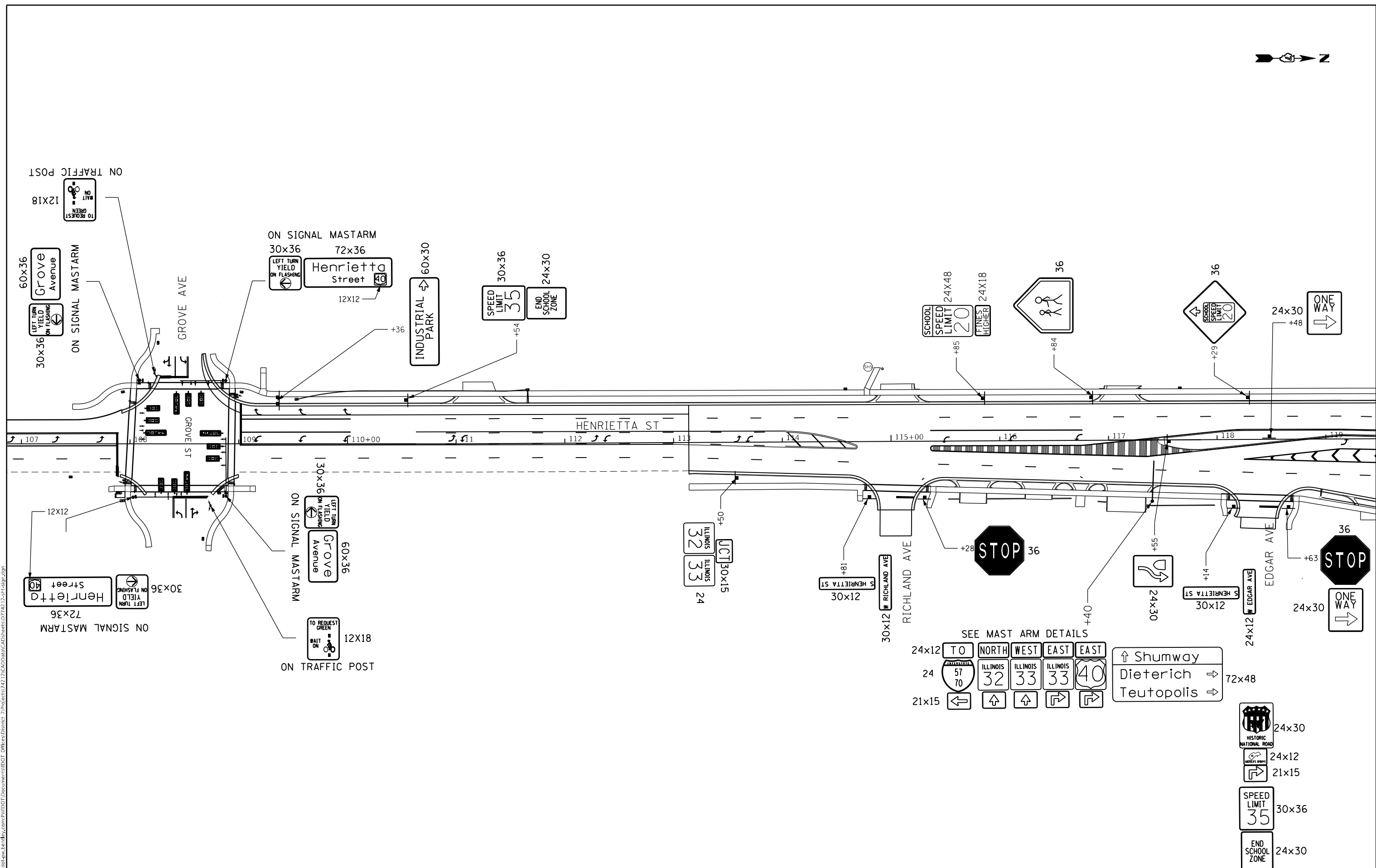
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PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE AVE SIGN PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	298
			CONTRACT NO. 74212	
		ILLINOIS	FED. AID PROJECT	



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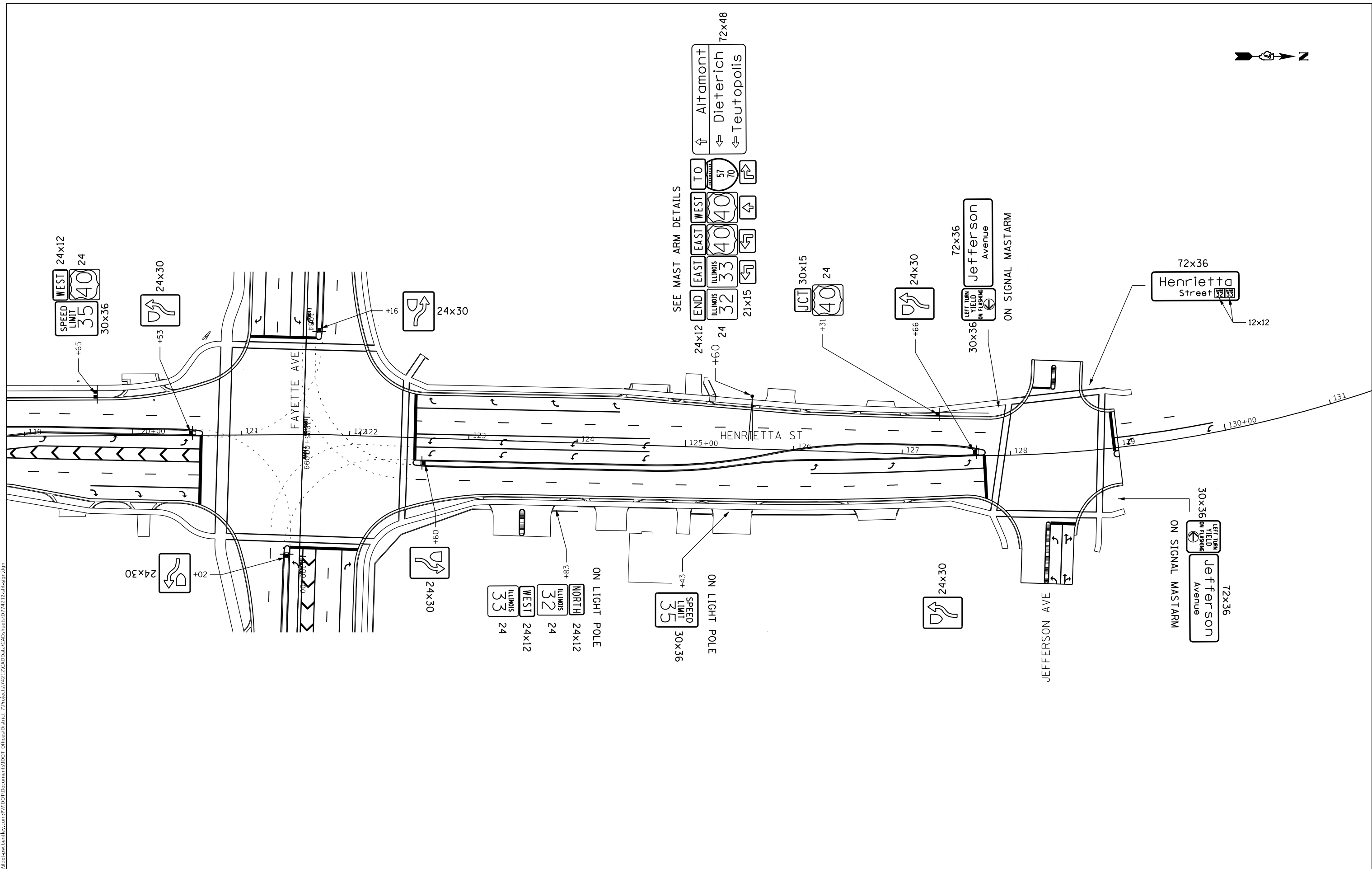
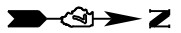
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

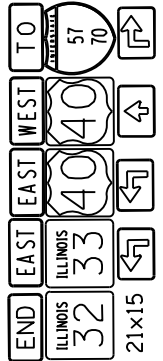
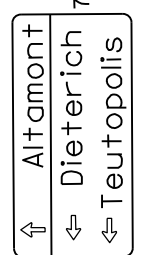
HENRIETTA ST SIGN PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(182)R	Effingham	385	299
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				



SEE MAST ARM DETAILS



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PLOT DATE = 10/21/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

HENRIETTA ST SIGN PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(18Z)R	Effingham	385	300
CONTRACT NO. 74212				
ILLINOIS FED. AID PROJECT				