

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

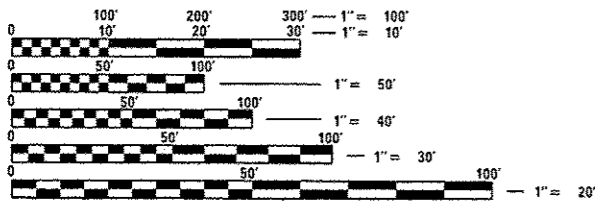
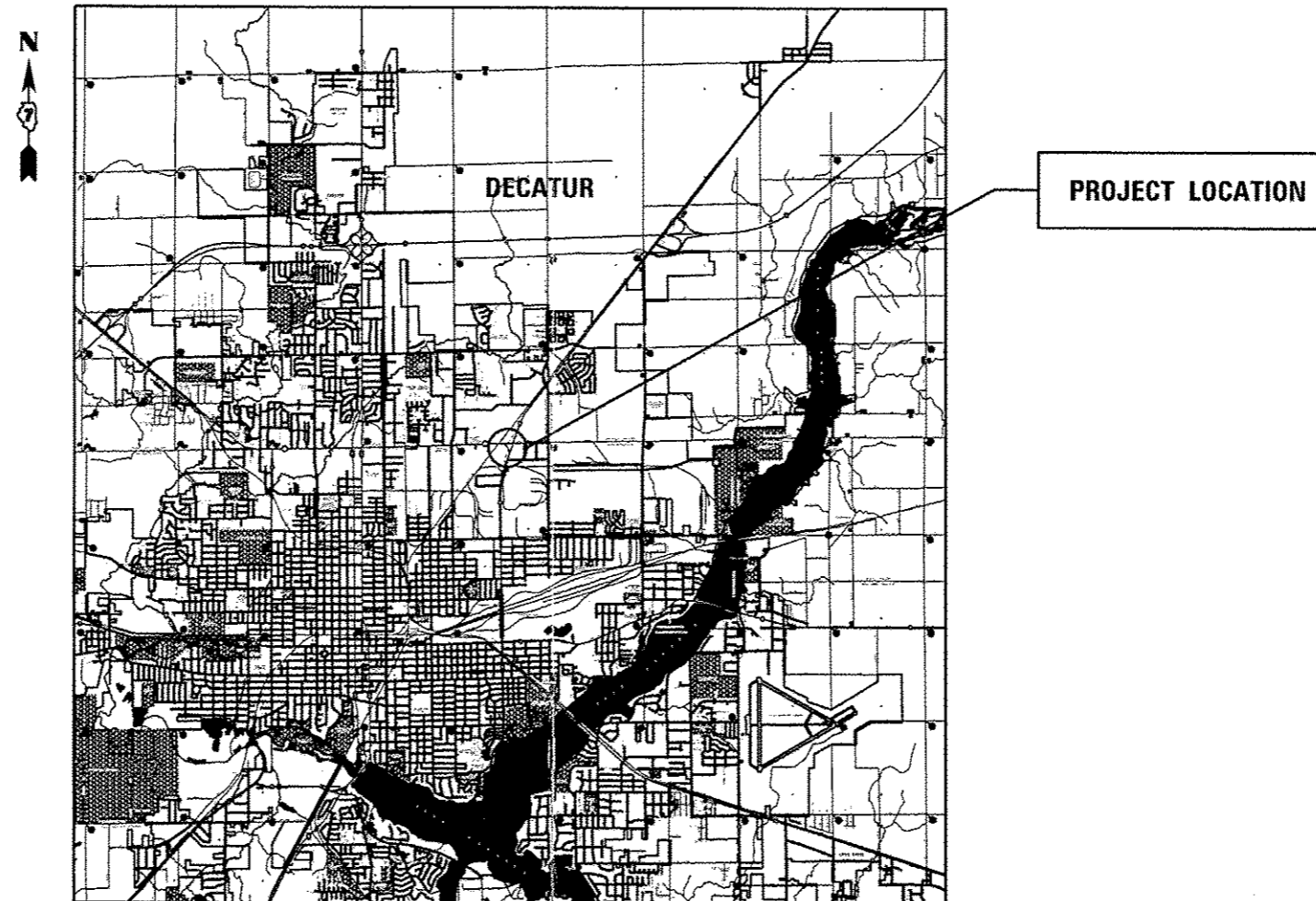
**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 320 (IL 48)
SECTION 126N
PROJECT HSIP-F-0320(038)
TRAFFIC SIGNALS & RESURFACING
MACON COUNTY
C-97-031-11

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 18,300

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	1
		ILLINOIS	CONTRACT NO. 74510	



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MARK DAUGHERTY
PROJECT MANAGER: BRIAN LEWIS
PHONE: (217)-342-8360
CONTRACT NO. 74510

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 28, 2012
Roger L. Drakell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 17, 2012
John D. Baranzelli, P.E.
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

August 17, 2012
William R. Freyer
ACTING DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012; THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS INDICATED ON THE CHECK SHEET, AND THE SPECIAL PROVISIONS INCLUDED IN THIS PROPOSAL.

THE ACTUAL LOCATIONS OF PAVMENT PATCHING AND FINAL QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE HMA SURFACE REMOVAL ON THE EAST LEG OF THE INTERSECTION WILL BE VARIABLE DEPTH BUT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR HMA SURFACE REMOVAL 2 1/4 INCH.

PAVEMENT MARKING IS SHOWN ON THE PLANS ONLY WHERE IT DIFFERS FROM THE EXISTING MARKINGS. EXISTING PAVEMENT MARKINGS ARE NOT SHOWN ON THE PLANS. EXISTING PAVEMENT MARKINGS SHALL BE DOCUMENTED BY THE ENGINEER BEFORE THEY ARE DESTROYED AND REPRODUCED IN THEIR ENTIRETY AFTER SURFACE COURSE IS PLACED.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, BITUMINOUS MATERIALS (PRIME COAT), AND HOT-MIX ASPHALT LEVEL BINDER, HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES. ALL OF THE SHORT-TERM PAVEMENT MARKINGS SHALL BE WHITE.

THE DETECTOR LOOP, TYPE 1 PAY ITEM IS INCLUDED FOR REPLACEMENT OF LOOPS EXPECTED TO BE DESTROYED BY MILLING. THE REPLACEMENT LOOPS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE SURFACE COURSE IN THE AREAS AFFECTED.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE ONLY AND THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

THE CONTRACTOR SHALL USE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP OR SS-1H FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

ROLLERS WILL NOT BE PERMITTED TO OPERATE IN VIBRATORY MODE.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE PER SQUARE YARD FOR TEMPORARY RAMP SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE RAMPS.

MANHOLES, VALVE VAULTS AND OTHER APPURTENANCES EXPOSED BY THE HOT-MIX ASPHALT SURFACE REMOVAL SHALL BE TEMPORARILY RAMPED AS DIRECTED BY THE ENGINEER. THE INSTALLATION AND SUBSEQUENT REMOVAL OF TEMPORARY RAMPS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF HOT MIX ASPHALT SURFACE REMOVAL PAY ITEMS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE
LEVELING BINDER (MACHINE METHOD) N90	PG 64-22	4.0% @ N=90	IL-9.5	N/A
POLYMERIZED HMA SURFACE COURSE, MIX "D", N90	SBS PG 70-22	4.0% @ N=90	IL-9.5	MIX D
CLASS D PATCHING	PG 64-22	4.0% @ N=70	IL-19.0	N/A

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8	QUANTITY SCHEDULES
9	PROJECT OVERVIEW
10-19	PLAN SHEETS
20-27	TRAFFIC SIGNALS
28	MEDIAN DETAILS
29-32	DISTRICT DETAILS
33-39	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 39:

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH
701451-01	RAMP CLOSURE, FREEWAY/EXPRESSWAY
701601-07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701602-05	URBAN LANE CLOSURE, MULTILANE 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
780001-03	TYPICAL PAVEMENT MARKINGS
814001-02	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-02	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS
420601-05	24' PCC PAVEMENT
420701-02	PAVEMENT FABRIC
442201-03	CLASS C AND D PATCHES

FILE NAME *	USER NAME * ateffanek	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pvidot\steffanek\0247536\1074510-shr-index.dgn	DRAWN -	REVISED -	320			126N	MACON	39	2	
PLOT SCALE * 100.0000 1/1 in.	CHECKED -	REVISED -	CONTRACT NO. 74510							
PLOT DATE * 7/2/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: NA	SHEET 1 OF SHEETS	STA.	TO STA.			

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	L20E STP(F)		LS3E HSIP		CODE NO	ITEM	UNIT	TOTAL QUANTITIES	L20E STP(F)		LS3E HSIP	
				0005 80% FED 20% STATE	0021 90% FED 10% STATE	0005 80% FED 20% STATE	0021 90% FED 10% STATE								
20200100	EARTH EXCAVATION	CU YD	483	483				60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1			
25200100	SODDING	SO YD	315	315				60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	435	435			
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	870	870				60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	297	297			
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	1214	1214				67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3	2	1		
40600990	TEMPORARY RAMP	SO YD	670	670				67100100	MOBILIZATION	L SUM	1	1			
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	2428	2428				70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1			
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	717	717				70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1			
42001200	PAVEMENT FABRIC	SO YD	717	717				70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1			
44000100	PAVEMENT REMOVAL	SO YD	19	19				70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	25865	25865				70300100	SHORT TERM PAVEMENT MARKING	FOOT	10265	10265			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1106	1106				70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1140	1140			
44022033	PARTIAL DEPTH REMOVAL 4"	SO YD	44	44				* 72000200	SIGN PANEL - TYPE 2	SO FT	72		72		
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SO YD	9.8	9.8											
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	257	257											

* SPECIALTY ITEM

L20E LS3E
STP(F) HSIP

L20E LS3E
STP(F) HSIP

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0021 90% FED 10% STATE
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	1047	1047	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10100	10100	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4770	4770	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	270	270	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	890	890	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	636	636	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	225	225	
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	15		15
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	71		71
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	358		358
81400100	HANDHOLE	EACH	2		2
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1591		1591
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1767		1767

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0021 90% FED 10% STATE
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	326		326
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	688		688
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2		2
87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1		1
87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1		1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15		15
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21		21
87900200	DRILL EXISTING HANDHOLE	EACH	5		5
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8		8
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4

*SPECIALTY ITEM

FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 6/29/2012	DATE -	REVISED -		CONTRACT NO. 74510							

SUMMARY OF QUANTITIES

L20E L53E
STP(F) HSIP
CONSTRUCTION TYPE CODE
0005 80% FED 20% STATE
0021 90% FED 10% STATE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0005 80% FED 20% STATE	0021 90% FED 10% STATE
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2		2
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2		2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19		19
88500100	INDUCTIVE LOOP DETECTOR	EACH	2		2
88600100	DETECTOR LOOP, TYPE I	FOOT	429		429
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1
89502380	REMOVE EXISTING HANDHOLE	EACH	2		2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2		2
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	430	430	
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SO FT	600	600	
X4403300	CONCRETE MEDIAN REMOVAL	SO FT	256	256	
X4403800	MEDIAN SURFACE REMOVAL	SO FT	880	880	
X4421000	PARTIAL DEPTH PATCHING	TON	10	10	

SUMMARY OF QUANTITIES

L20E L53E
STP(F) HSIP
CONSTRUCTION TYPE CODE
0005 80% FED 20% STATE
0021 90% FED 10% STATE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0005 80% FED 20% STATE	0021 90% FED 10% STATE
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

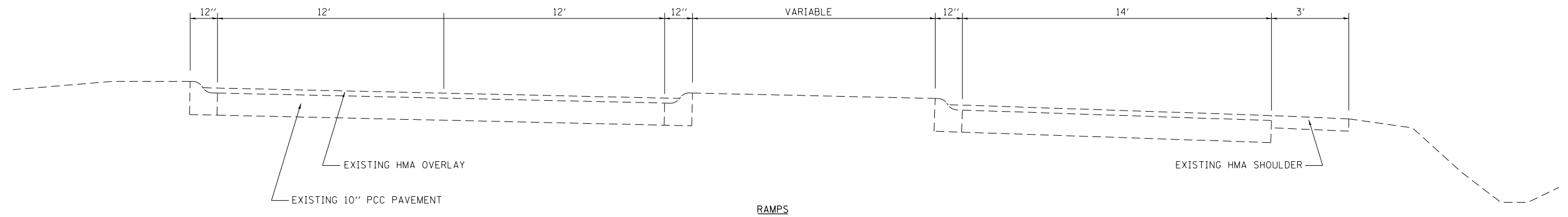
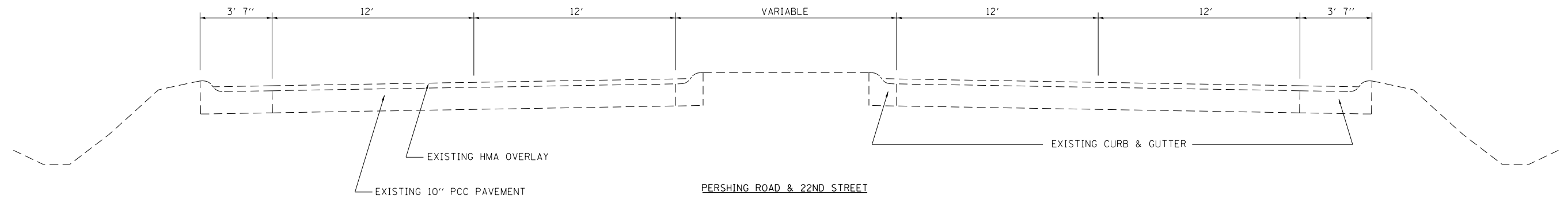
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	PLOT DATE = 6/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	5
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



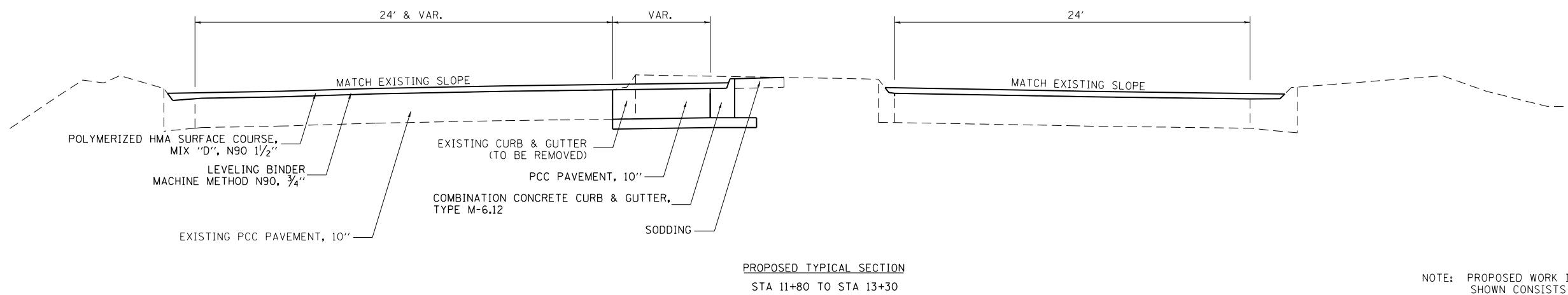
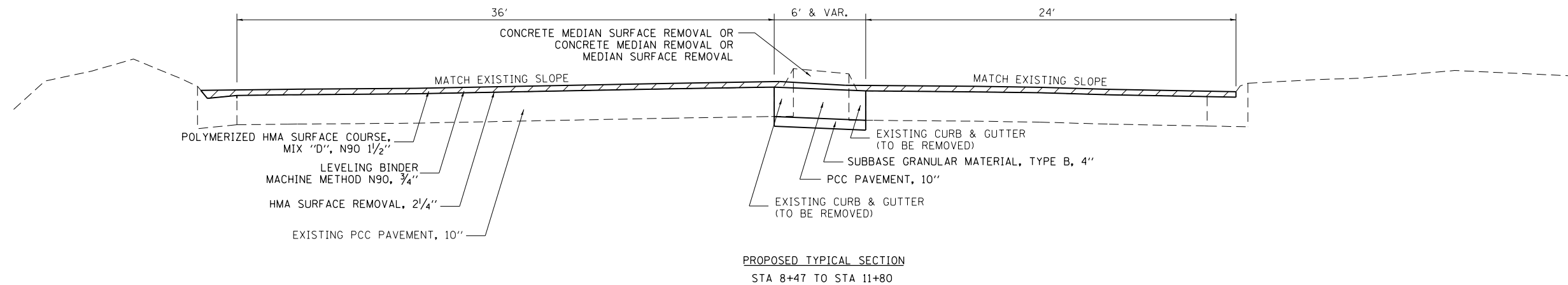
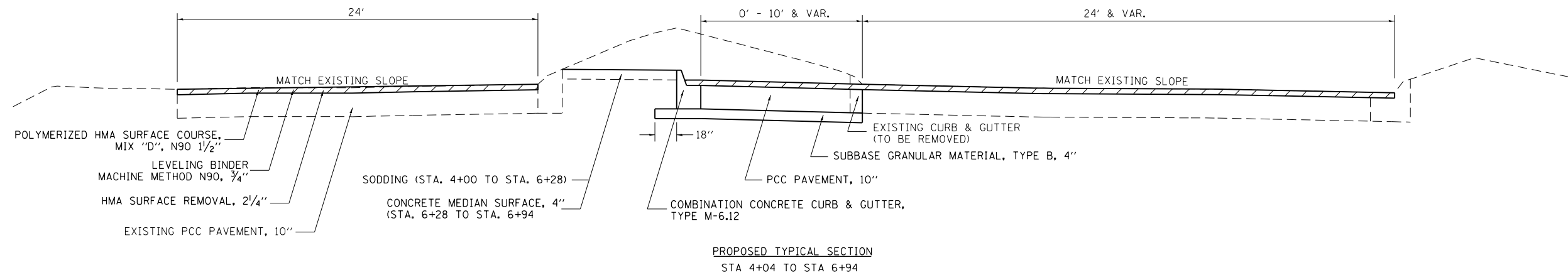
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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTIONS

SCALE: NA SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	6
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



NOTE: PROPOSED WORK IN AREAS NOT SPECIFICALLY SHOWN CONSISTS OF HMA SURFACE REMOVAL AND HMA OVERLAY.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 6/29/2012	DATE -	CHECKED -	REVISED -		SCALE: NA SHEET 1 OF SHEETS STA. TO STA.			CONTRACT NO. 74510				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

PARTIAL DEPTH REMOVAL 4"	
EAST LEG OF INTERSECTION	44 S. Y.
TOTAL	44 S. Y.

COMBINATION CONC. C&G TYPE M6.12	
RT STA 4+04 TO 6+94	292 FOOT
LT STA 11+87 TO 13+29	143 FOOT
TOTAL	435 FOOT

PARTIAL DEPTH PATCHING	
EAST LEG OF INTERSECTION	10 TON
TOTAL	10 TON

CONCRETE MEDIAN SURFACE	
STA 6+28 TO 6+94	297 SQ. FT.
TOTAL	297 SQ. FT.

SODDING	
STA 4+04 TO 6+28	267 S. Y.
STA 11+87 TO 13+3	48 S. Y.
TOTAL	315 S. Y.

CONCRETE MEDIAN SURFACE REMOVAL	
LT STA 10+46 TO 11+87	600 SQ. FT.
TOTAL	600 SQ. FT.

TEMPORARY RAMP	
WEST END (PERSHING)	83.5 S. Y.
NORTH END (22ND ST)	66.7 S. Y.
SOUTH END (22ND ST)	88.9 S. Y.
TRACKS ON PERSHING	247.4 S. Y.
TRACKS ON 22ND ST	183.5 S. Y.
TOTAL	670 S. Y.

CONCRETE MEDIAN REMOVAL	
LT STA 7+43 TO 7+51	48 SQ. FT.
LT STA 8+47 TO 8+56	108 SQ. FT.
LT STA 10+01 TO 10+09	48 SQ. FT.
LT STA 10+38 TO 10+46	52 SQ. FT.
TOTAL	256 SQ. FT.

TWO APPLICATIONS - 7.5' AND 5' LONG

PAVEMENT REMOVAL	
LT STA 10+10 TO 10+38	19 S. Y.
TOTAL	19 S. Y.

MEDIAN SURFACE REMOVAL	
LT STA 8+55 TO 10+01	880 SQ. FT.
TOTAL	880 SQ. FT.

VALVE VAULTS TO BE ADJUSTED	
6.7' LT STA 6+21	1 EACH
TOTAL	1 EACH

COMBINATION CURB AND GUTTER REMOVAL	
RT STA 4+04 TO 7+46	342 FOOT
LT STA 6+94 TO 7+44	51 FOOT
LT STA 8+56 TO 10+01	145 FOOT
LT STA 8+55 TO 10+01	146 FOOT
LT STA 10+46 TO 13+29	284 FOOT
LT STA 10+46 TO 11+84	138 FOOT
TOTAL	1106 FOOT

PCC PAVEMENT 10 INCH	
RT STA 4+10 TO 7+52	389 S. Y.
LT STA 8+47 TO 13+21	328 S. Y.
TOTAL	717 S. Y.

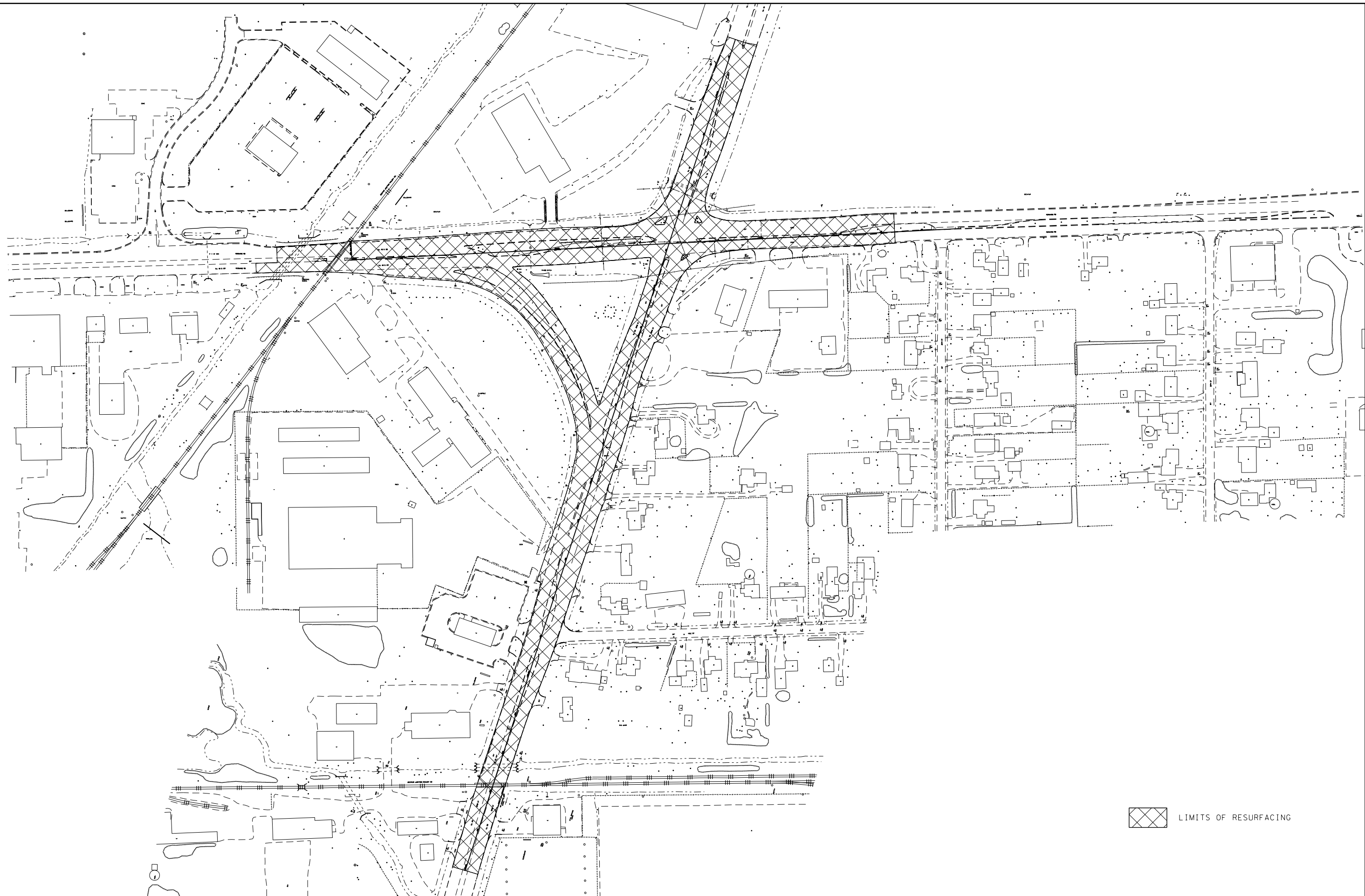
LOCATION OR DESCRIPTION	PAVEMENT MARKING									
	THERMOPLASTIC PAVEMENT MARKING - LTRS & SYMB	THERMOPLASTIC PAVEMENT MARKING - LINE 4" - WHITE	THERMOPLASTIC PAVEMENT MARKING - LINE 4" - YELLOW	THERMOPLASTIC PAVEMENT MARKING - LINE 6" - WHITE	THERMOPLASTIC PAVEMENT MARKING - LINE 8" - WHITE	THERMOPLASTIC PAVEMENT MARKING - LINE 12" - WHITE	THERMOPLASTIC PAVEMENT MARKING - LINE 12" - YELLOW	THERMOPLASTIC PAVEMENT MARKING - LINE 24" - WHITE	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH
LEFT TURN ARROWS										
EB PERSHING - 3 EACH	46.8									
WB PERSHING - 5 EACH	78									
NB 22ND SOUTH OF TRACKS - ONE PAIR	31.2									
NB 22ND NEAR RAMPS - 6 EACH	93.6									
NB 22ND AT CAR DEALER - 2 EACH	31.2									
SB 22ND AT INTERSECTION - 2 EACH	31.2									
RIGHT TURN ARROWS										
NB 22ND AT INTERSECTION - 2 EACH	31.2									
SB 22ND AT INTERSECTION - 3 EACH	46.8									
WB PERSHING - 1 EACH	15.6									
THROUGH ARROWS										
NB 22ND NEAR RAMPS - 6 EACH	69									
SB 22ND AT RAMPS - 2 EACH	23									
SB 22ND BEYOND RAMPS - 2 EACH	23									
WB RAMP - 2 EACH	23									
WB PERSHING - 2 EACH	23									
COMBINATION ARROWS										
NB AT INTERSECTION - 2 EACH	52									
RAILROAD WARNINGS										
WB PERSHING - 3 SETS	183.6									
NB 22ND ST - 2 SETS	122.4									
SB 22ND ST - 2 SETS	122.4									
LANE DIVIDERS				4770						197
AROUND ISLANDS					270					
DIAGONALS IN MEDIANS AND AT ISLANDS						630	260			
STOP BARS								636		
EDGE LINES		2360	1005						14	14
AROUND MEDIANS			6735							
TOTALS	1047	2360	7740	4770	270	630	260	636	211	14

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES			
SCALE: NA	SHEET 1	OF	SHEETS
STA.		TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	8
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



 LIMITS OF RESURFACING

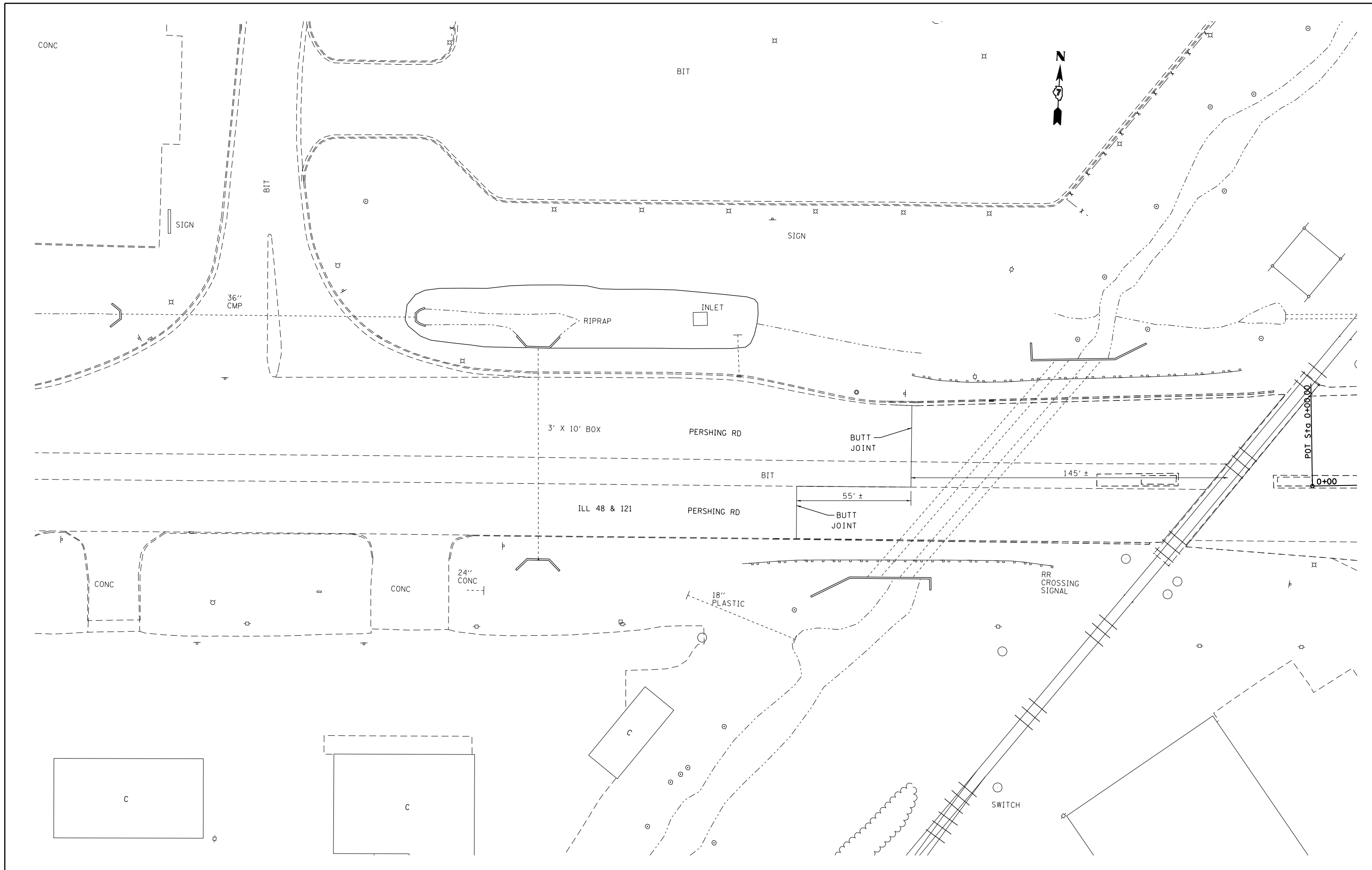
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
PROJECT OVERVIEW**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	9
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				

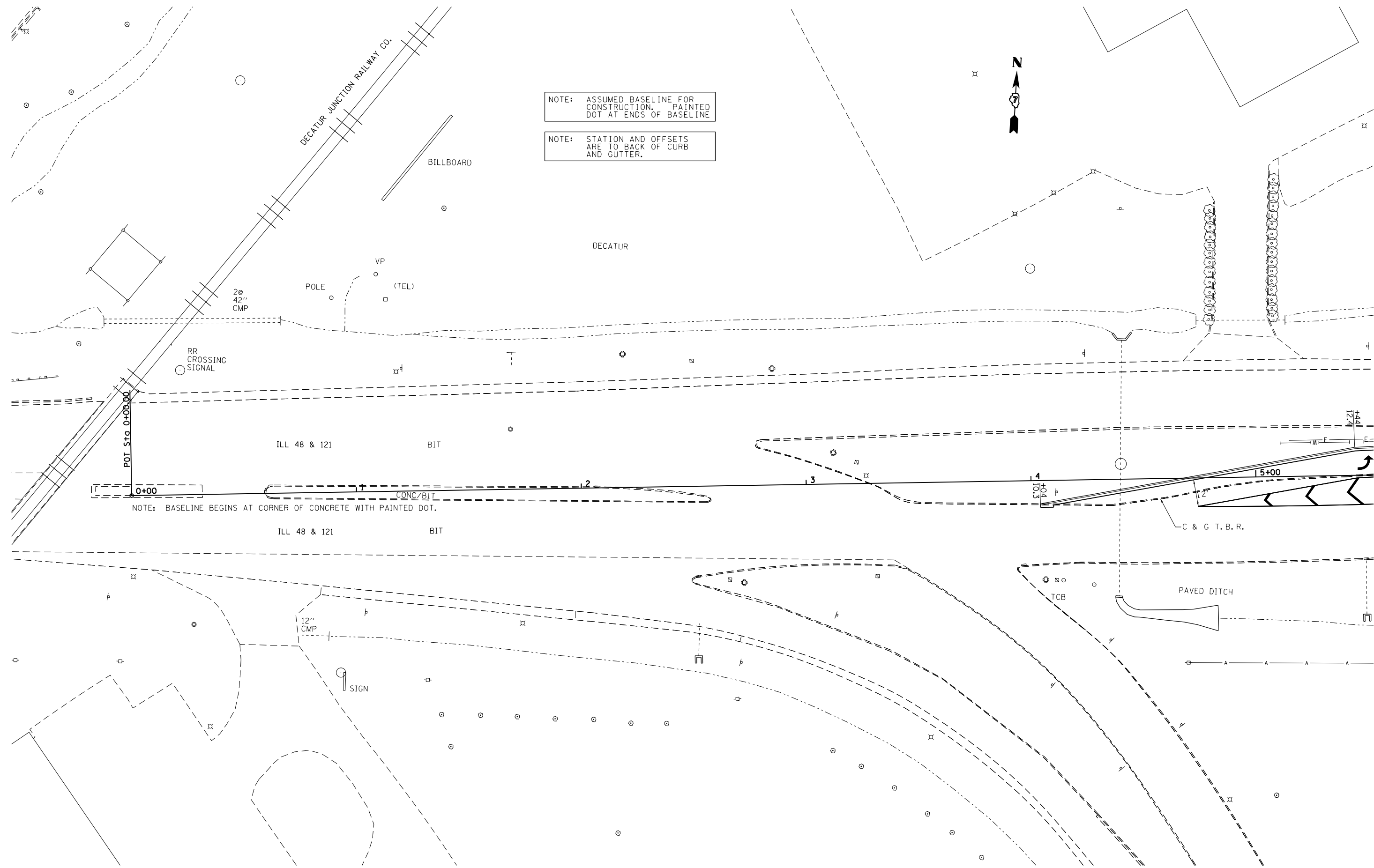


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET PERSHING ROAD			
SCALE: 20	SHEET 1	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	10
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



NOTE: ASSUMED BASELINE FOR CONSTRUCTION. PAINTED DOT AT ENDS OF BASELINE

NOTE: STATION AND OFFSETS ARE TO BACK OF CURB AND GUTTER.

NOTE: BASELINE BEGINS AT CORNER OF CONCRETE WITH PAINTED DOT.

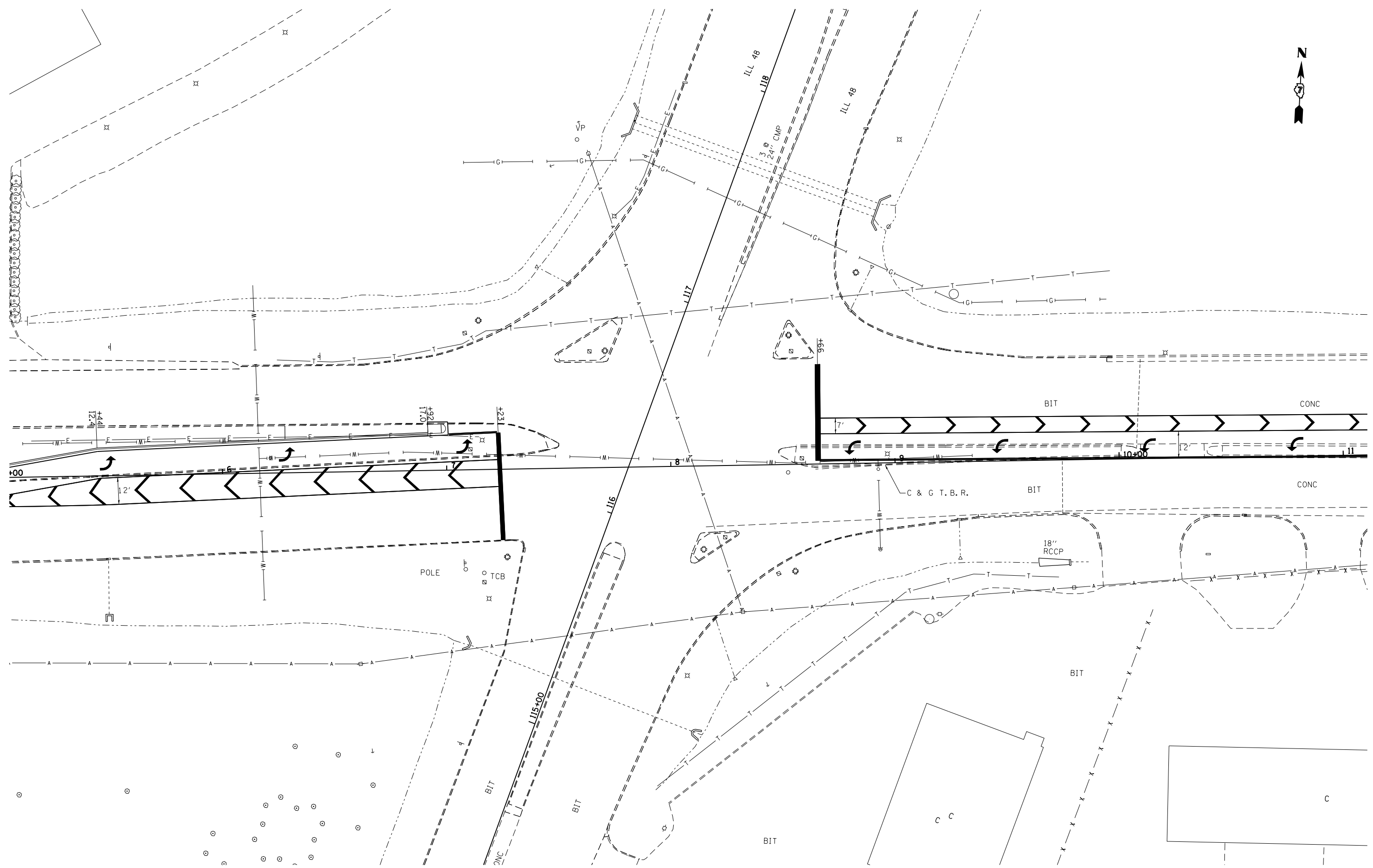
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
PERSHING ROAD**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	11
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



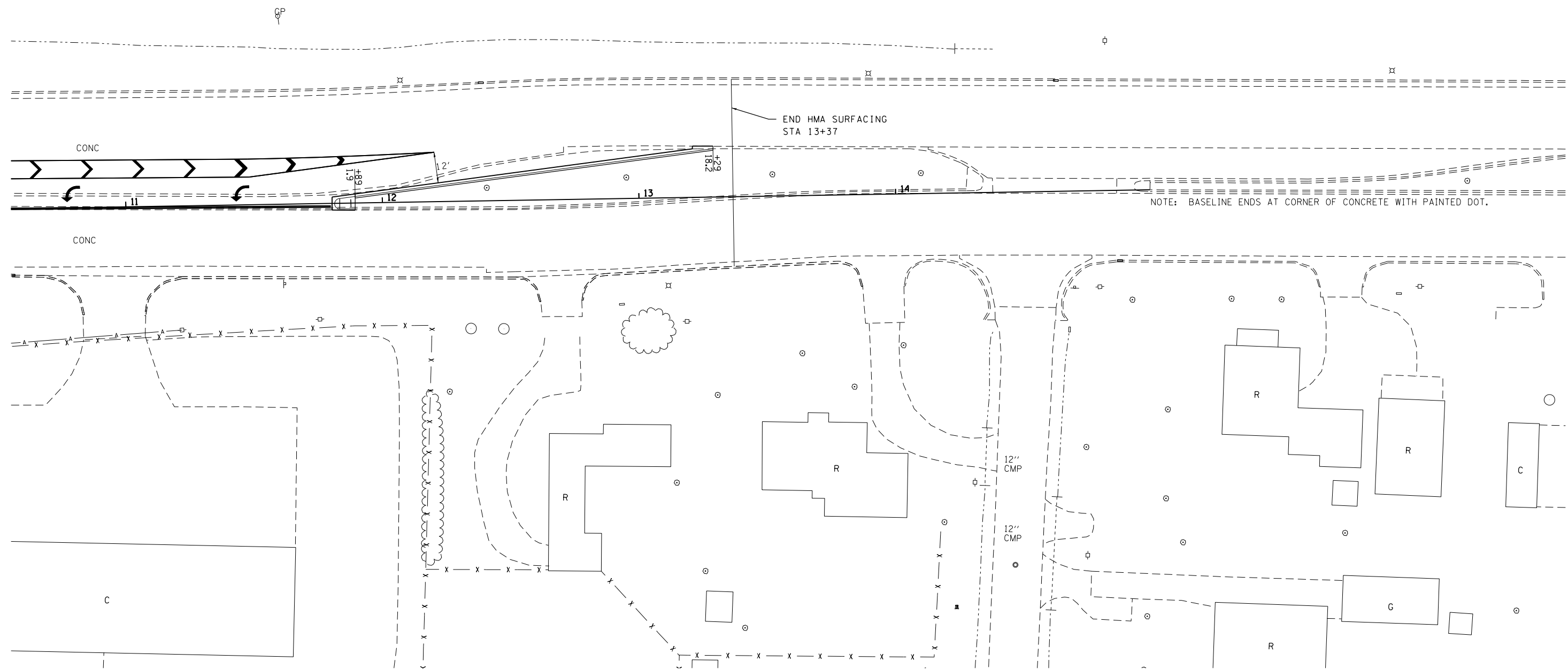
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
PERSHING ROAD**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	12
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



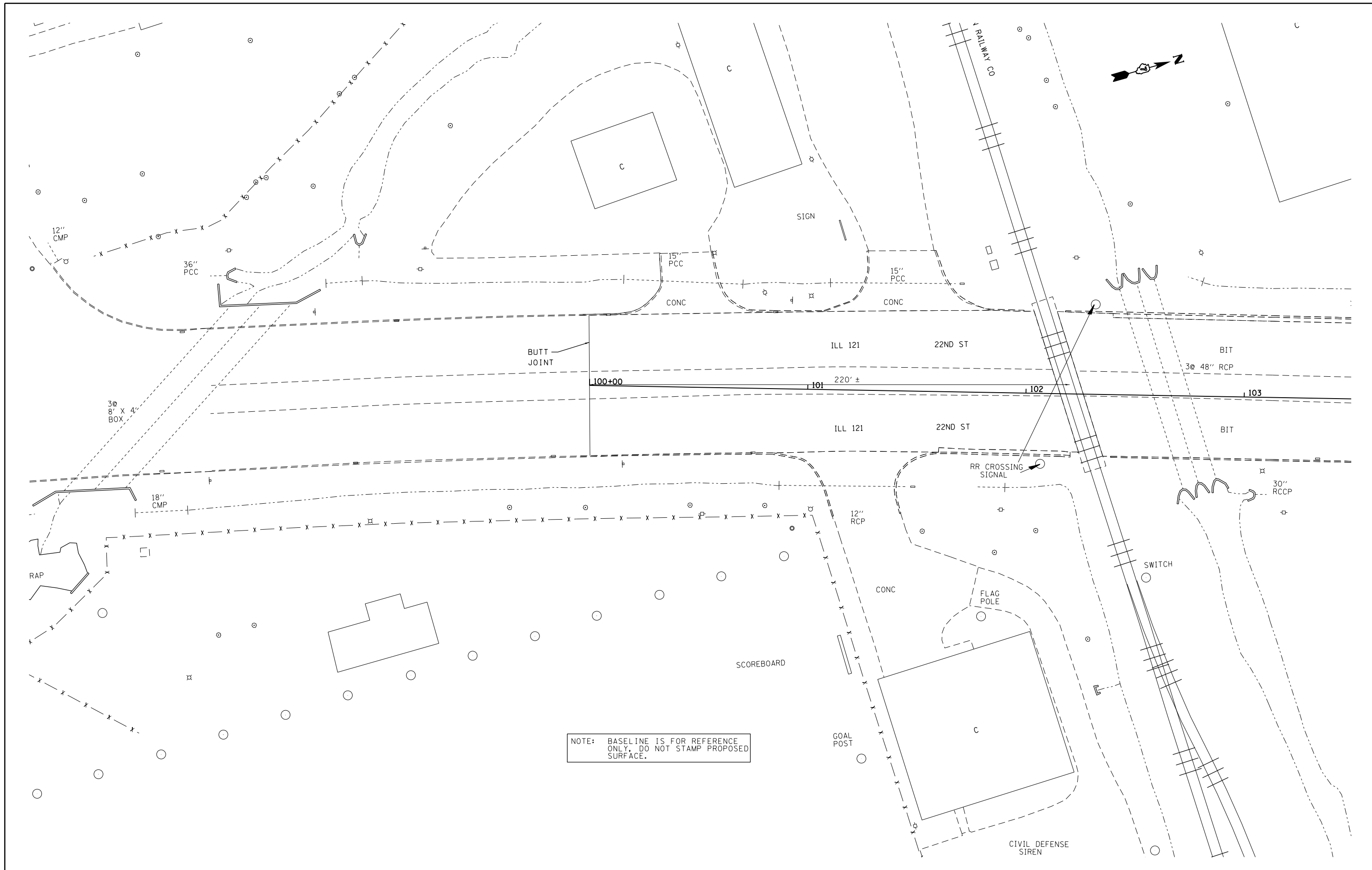
NOTE: BASELINE ENDS AT CORNER OF CONCRETE WITH PAINTED DOT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET PERSHING ROAD			
SCALE: 20	SHEET 1	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	13
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



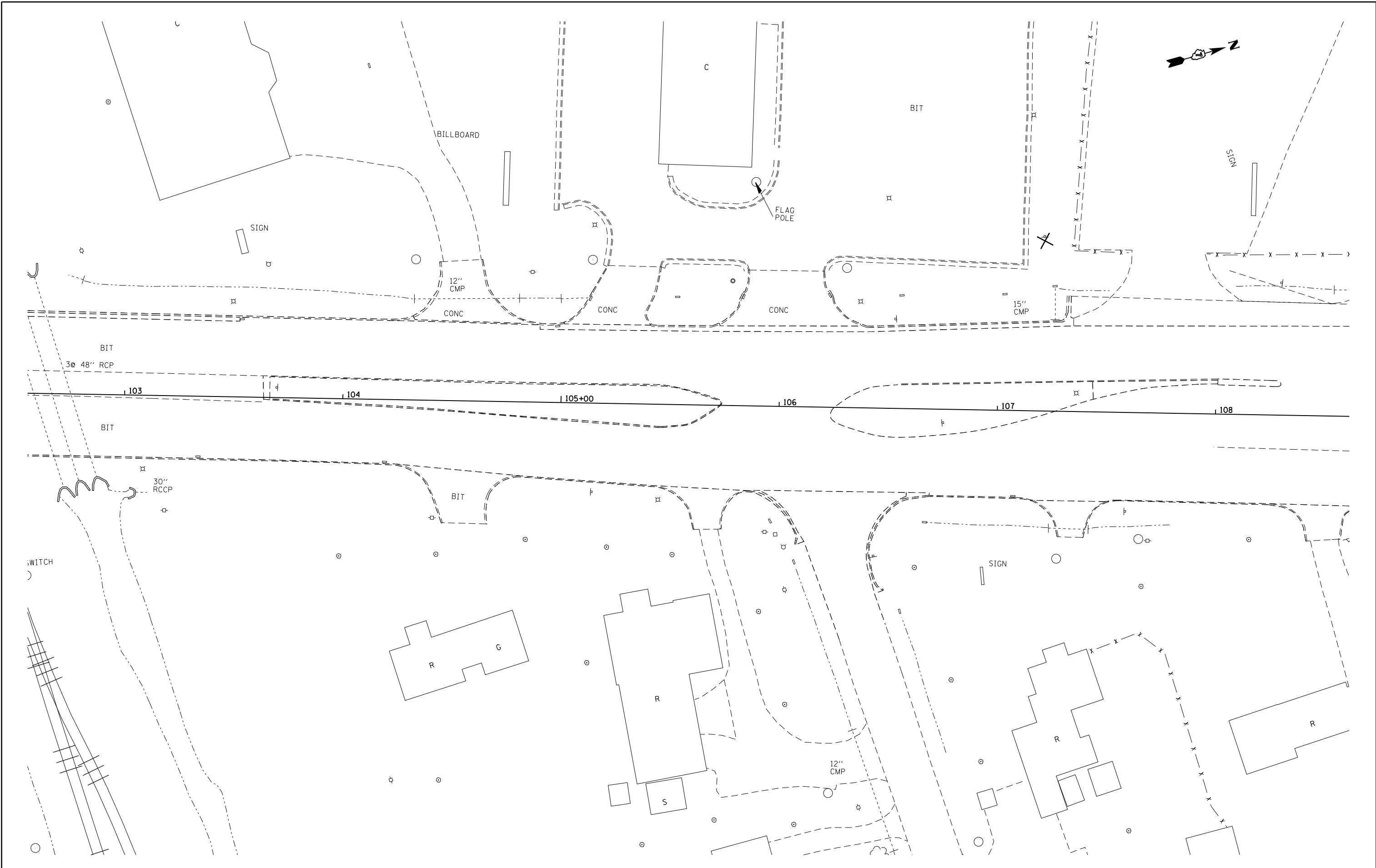
NOTE: BASELINE IS FOR REFERENCE ONLY. DO NOT STAMP PROPOSED SURFACE.

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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET 22ND STREET	
SCALE: 20	SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	14
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				

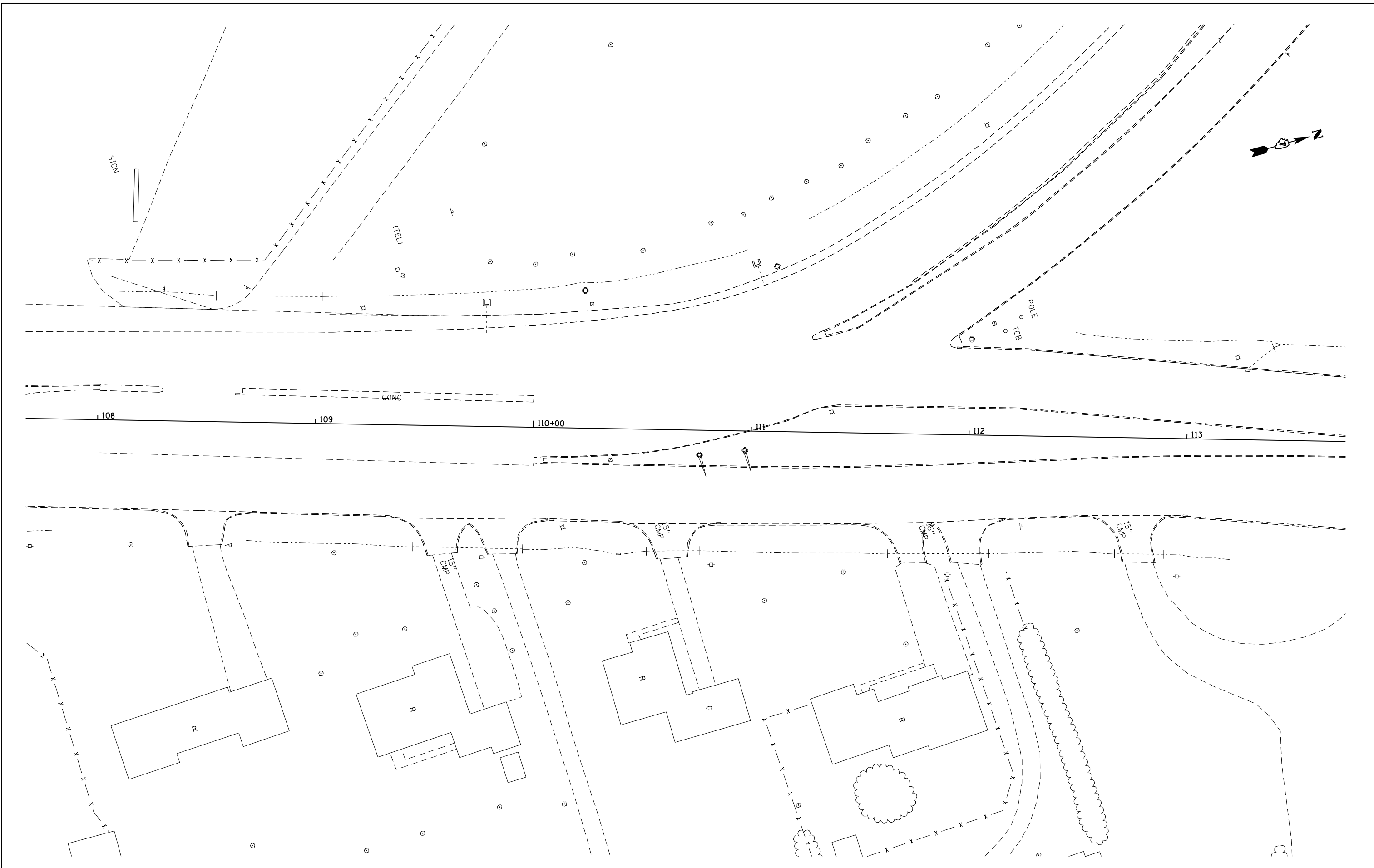


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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET 22ND STREET	
SCALE: 20	SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	15
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



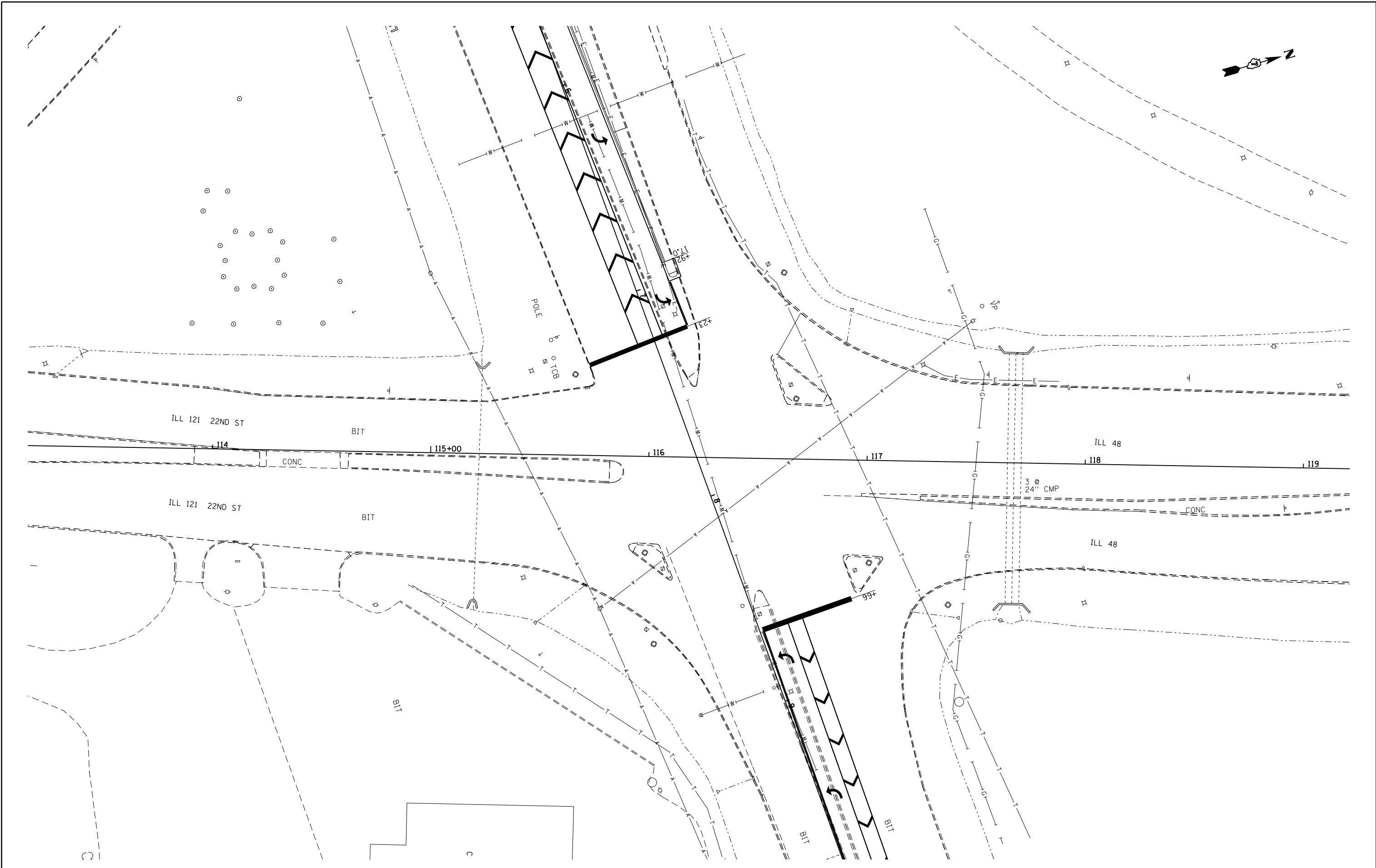
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
22ND STREET**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	16
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



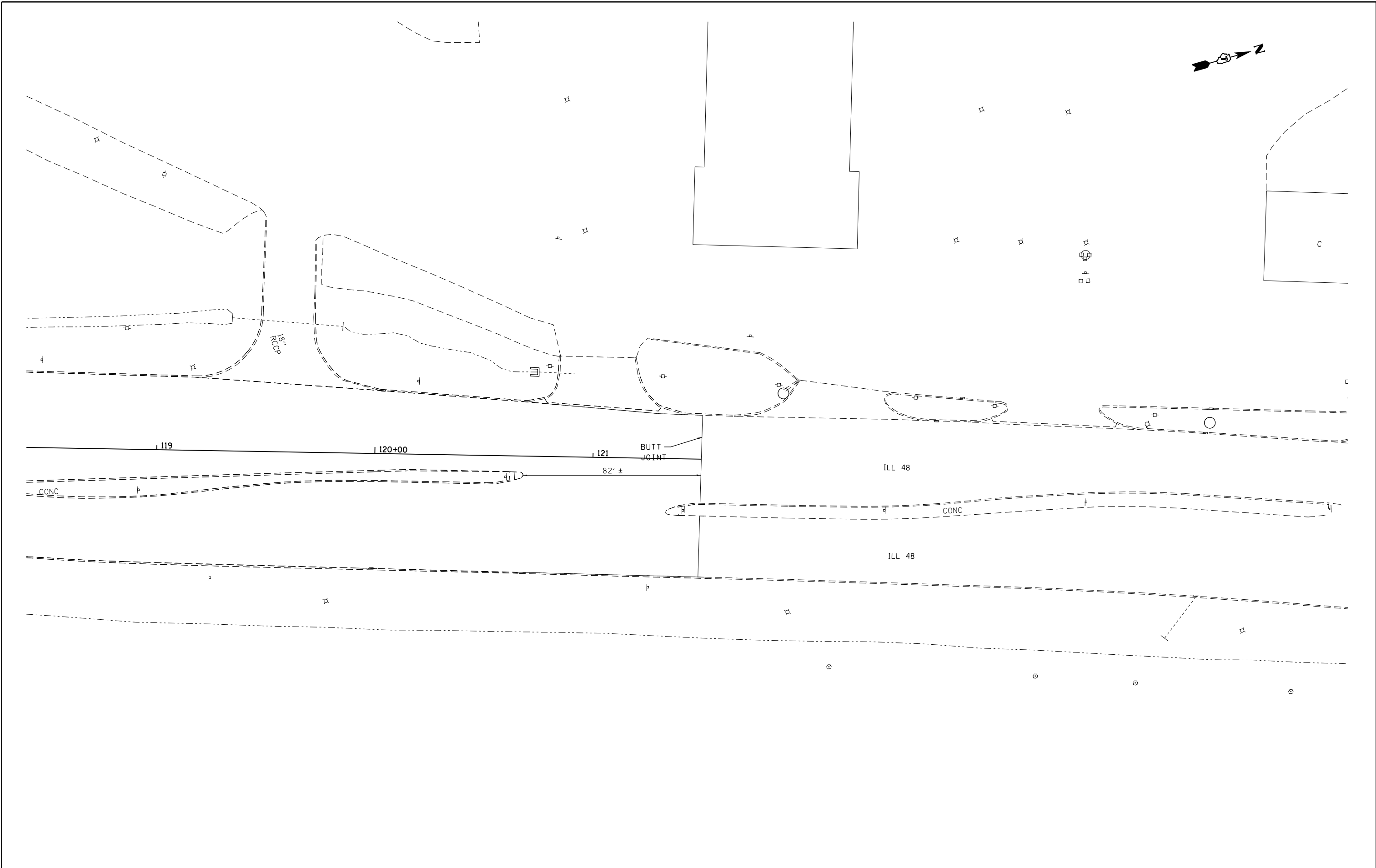
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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
22ND STREET**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	17
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



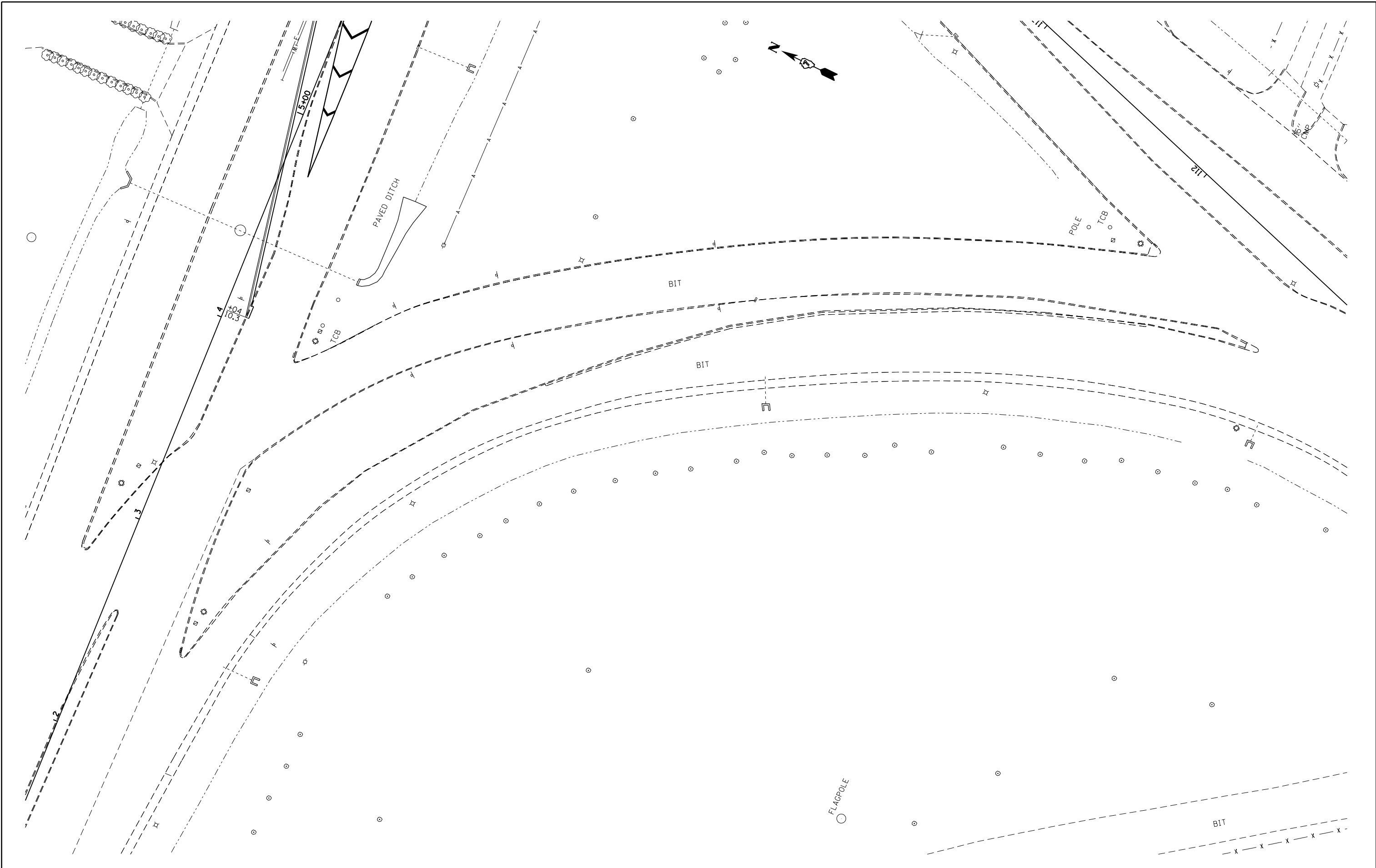
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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
22ND STREET**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	18
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET
RAMPS**

SCALE: 20 SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	MACON	39	19
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF NEW TRAFFIC SIGNALS AT THE INTERSECTION OF ILL48/121 (PERSHING AVENUE) & 22ND STREET IN THE CITY OF DECATUR, MACON COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNALS, MAST ARMS, SIGNAL POSTS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

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 TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8291 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

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.

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 TRENCH AND BACKFILL FOR 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.

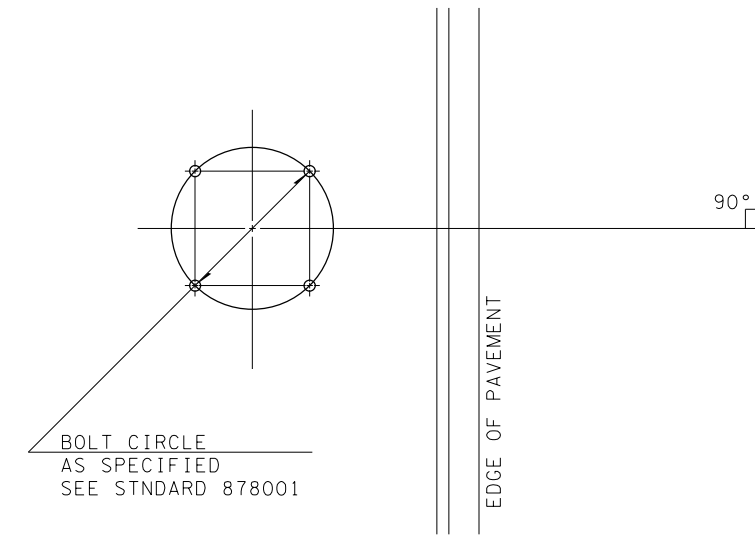
ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

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.



DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN



TO BE INSTALLED ON EASTBOUND MAST ARM (STA 190+55 62' LT)
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 188+31 67' LT)

SIGN PANEL DETAILS

1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. UPPER/LOWER CASE LETTERS, HIGHWAY GOTHIC
UPPER LINE 12D
LOWER LINE 6D.



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 10+70 24' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 8+92 48' IT)

SIGN PANEL DETAILS

1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. UPPER/LOWER CASE LETTERS, HIGHWAY GOTHIC
UPPER LINE 12D
LOWER LINE 6D.

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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL DETAILS AND GENERAL NOTES
INTERSECTION OF PERSHING AVE & 22nd STREET**

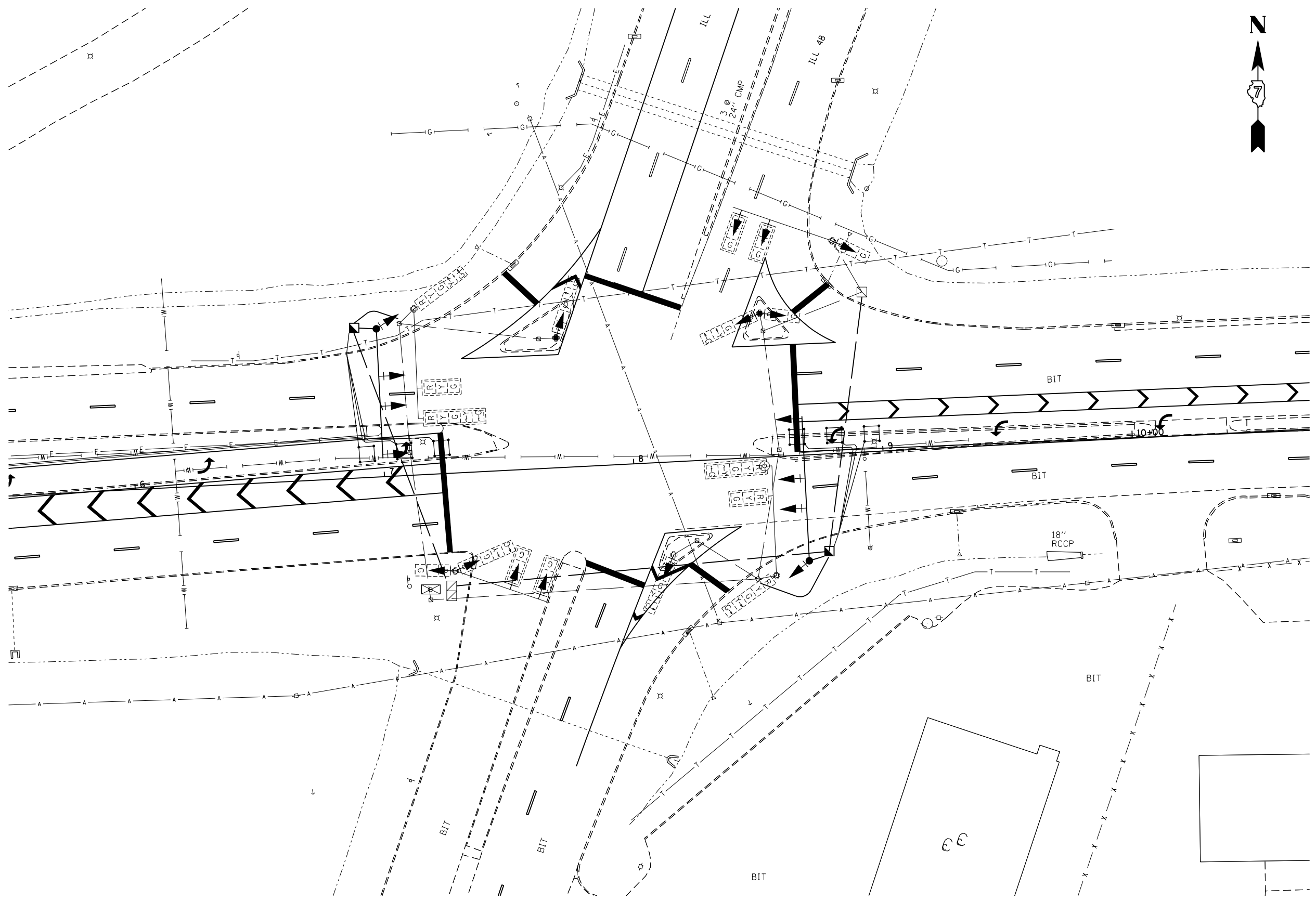
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macon	39	20
CONTRACT NO. 74510			ILLINOIS FED. AID PROJECT	

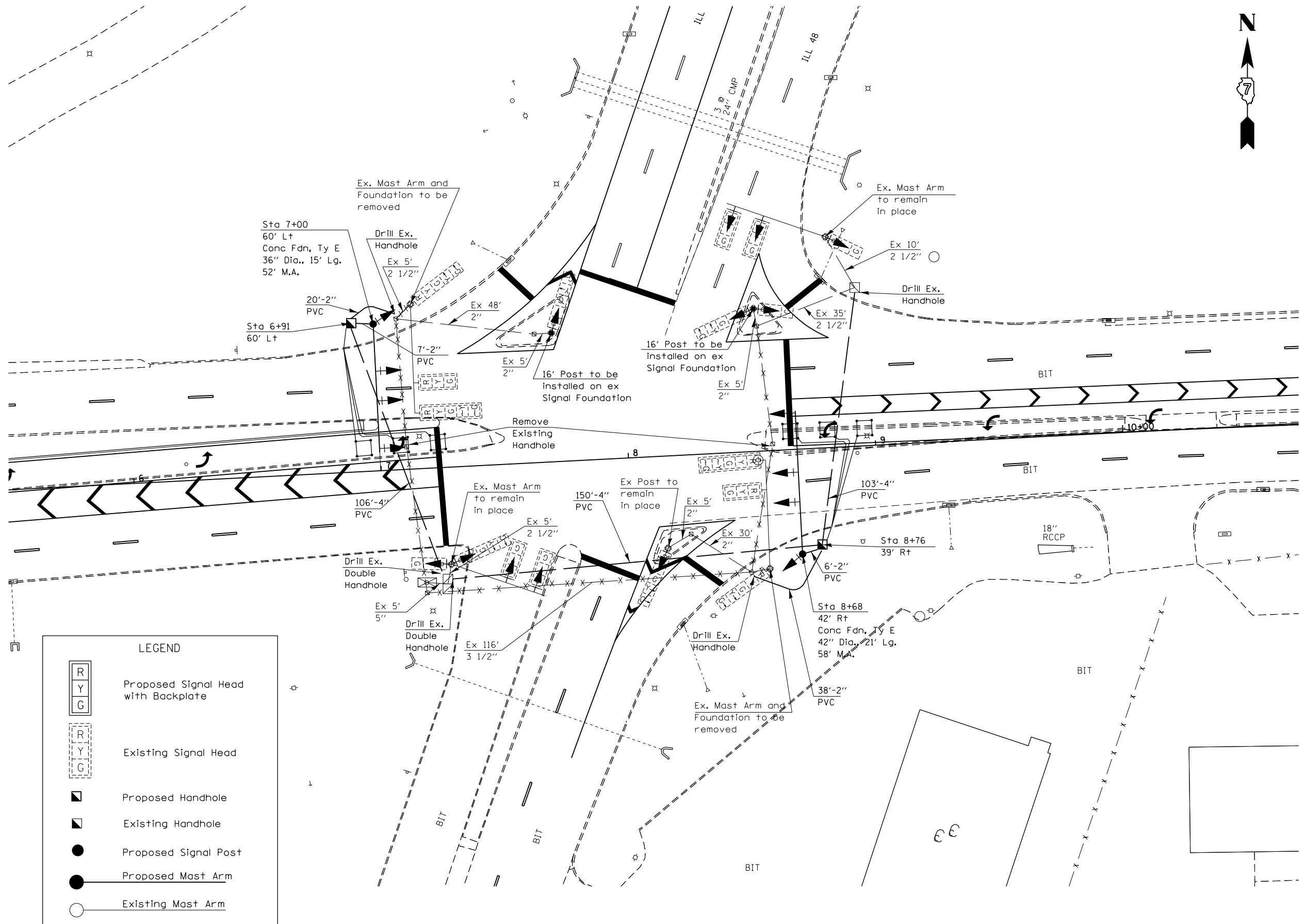
PERSHING AVENUE & 22nd STREET- BILL OF MATERIALS-TRAFFIC SIGNALS

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 2	SQ FT	72.0
UNDERGROUND CONDUIT, PVC, 1 1/2 " DIA.	FOOT	15.0
UNDERGROUND CONDUIT, PVC 2" DIA.	FOOT	71.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	359.0
HANDHOLE	EACH	2.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1591.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1767.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	326.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	688.0
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2.0
STEEL MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15.0
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19.0
INDUCTIVE LOOP DETECTOR	EACH	2.0
DETECTOR LOOP, TYPE 1	FOOT	429.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING HANDHOLE	EACH	3.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2.0

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL BILL OF MATERIALS INTERSECTION OF PERSHING AVE & 22nd STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 6/29/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET OF SHEETS	STA.	TO STA.			

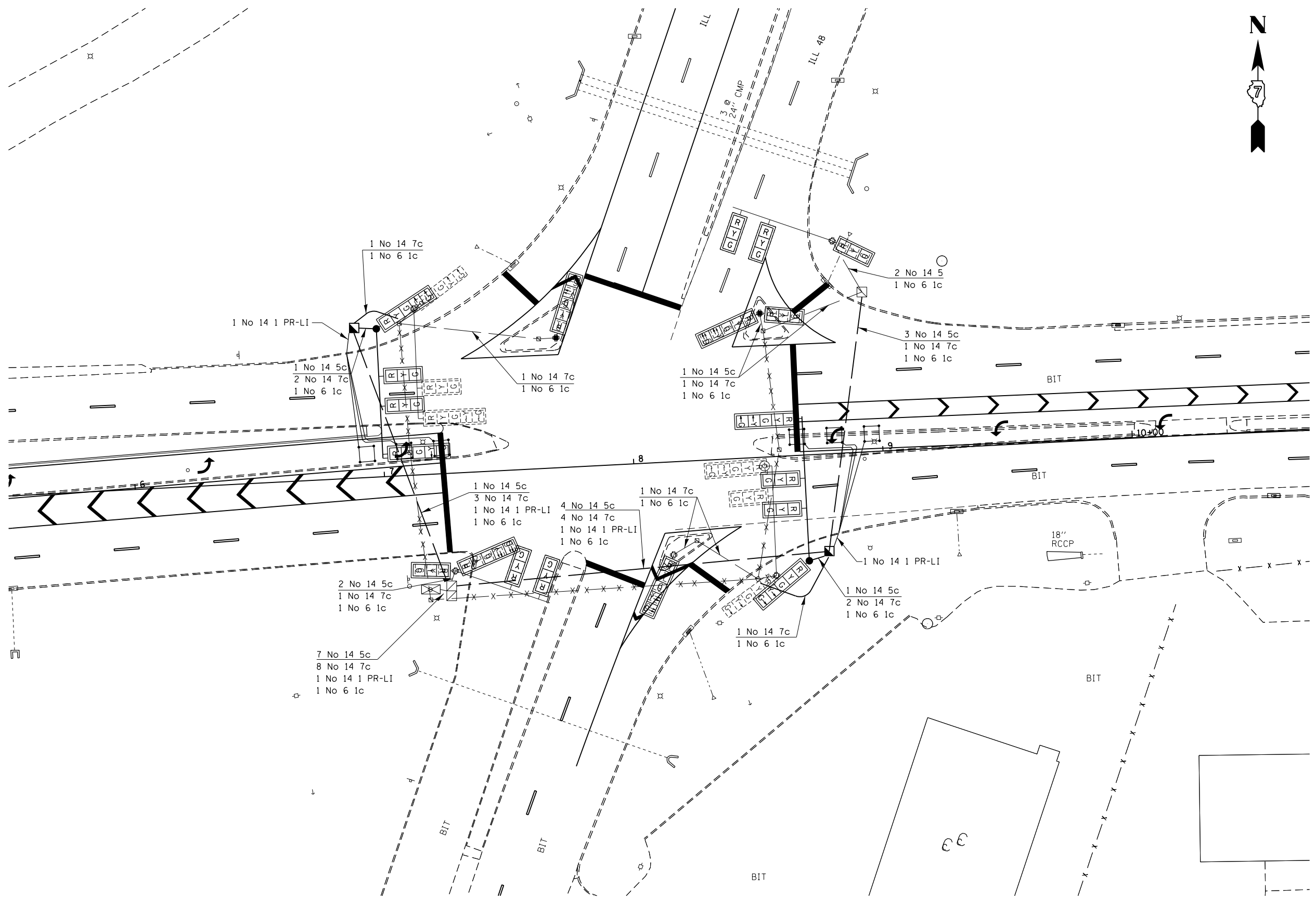


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PLOT DATE = 6/29/2012	DATE -	REVISED -	REVISED -				ILLINOIS FED. AID PROJECT			CONTRACT NO. 74510			



LEGEND	
	Proposed Signal Head with Backplate
	Existing Signal Head
	Proposed Handhole
	Existing Handhole
	Proposed Signal Post
	Proposed Mast Arm
	Existing Mast Arm

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNAL LAYOUT INTERSECTION OF PERSHING AVE & 22nd STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 6/29/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET OF SHEETS	STA. TO STA.				



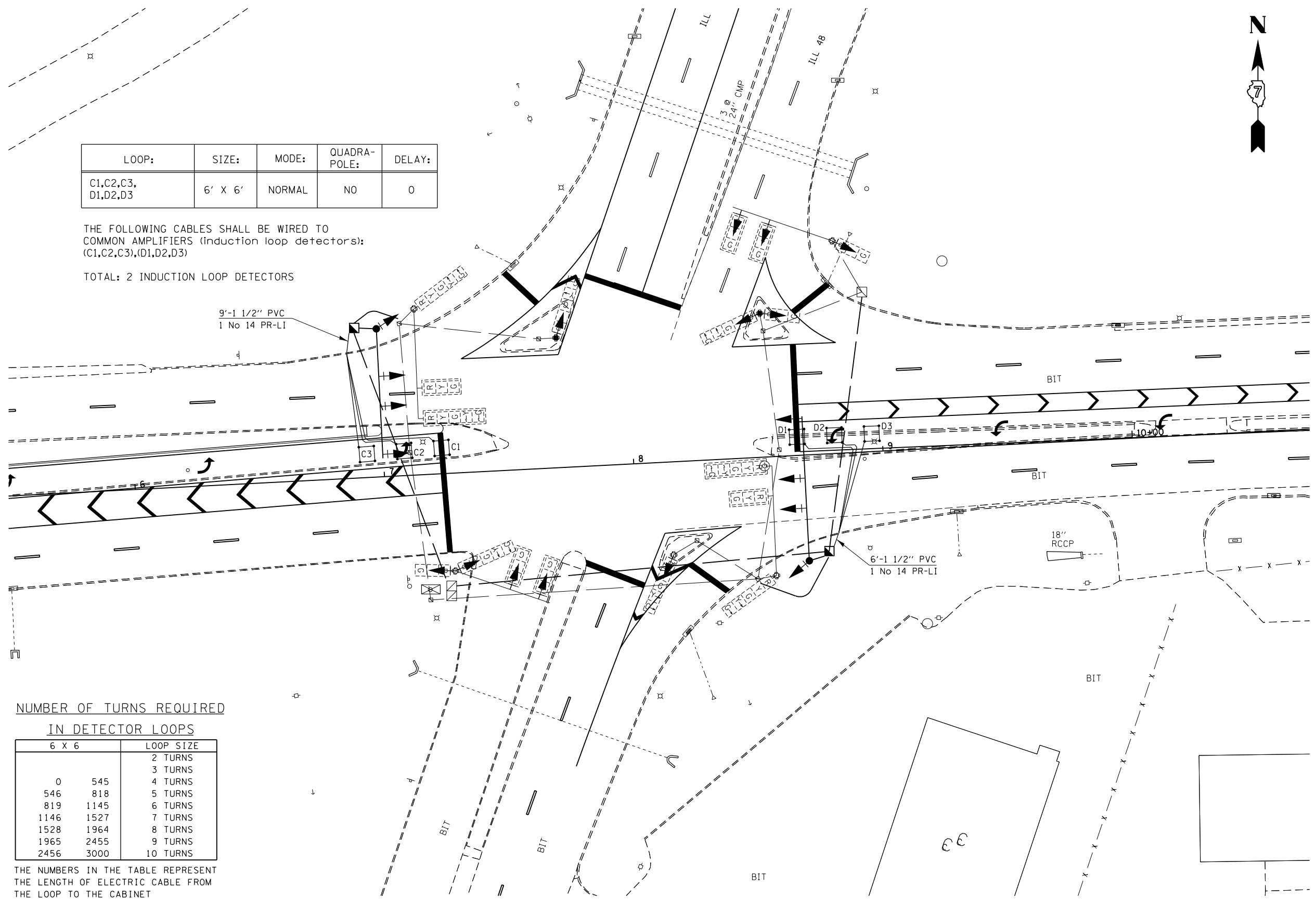
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PLOT DATE = 6/29/2012	DATE -	REVISED -	REVISED -				CONTRACT NO. 74510			ILLINOIS FED. AID PROJECT			



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
C1,C2,C3, D1,D2,D3	6' X 6'	NORMAL	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS (induction loop detectors): (C1,C2,C3),(D1,D2,D3)

TOTAL: 2 INDUCTION LOOP DETECTORS



NUMBER OF TURNS REQUIRED
IN DETECTOR LOOPS

6 X 6		LOOP SIZE
		2 TURNS
		3 TURNS
0	545	4 TURNS
546	818	5 TURNS
819	1145	6 TURNS
1146	1527	7 TURNS
1528	1964	8 TURNS
1965	2455	9 TURNS
2456	3000	10 TURNS

THE NUMBERS IN THE TABLE REPRESENT THE LENGTH OF ELECTRIC CABLE FROM THE LOOP TO THE CABINET

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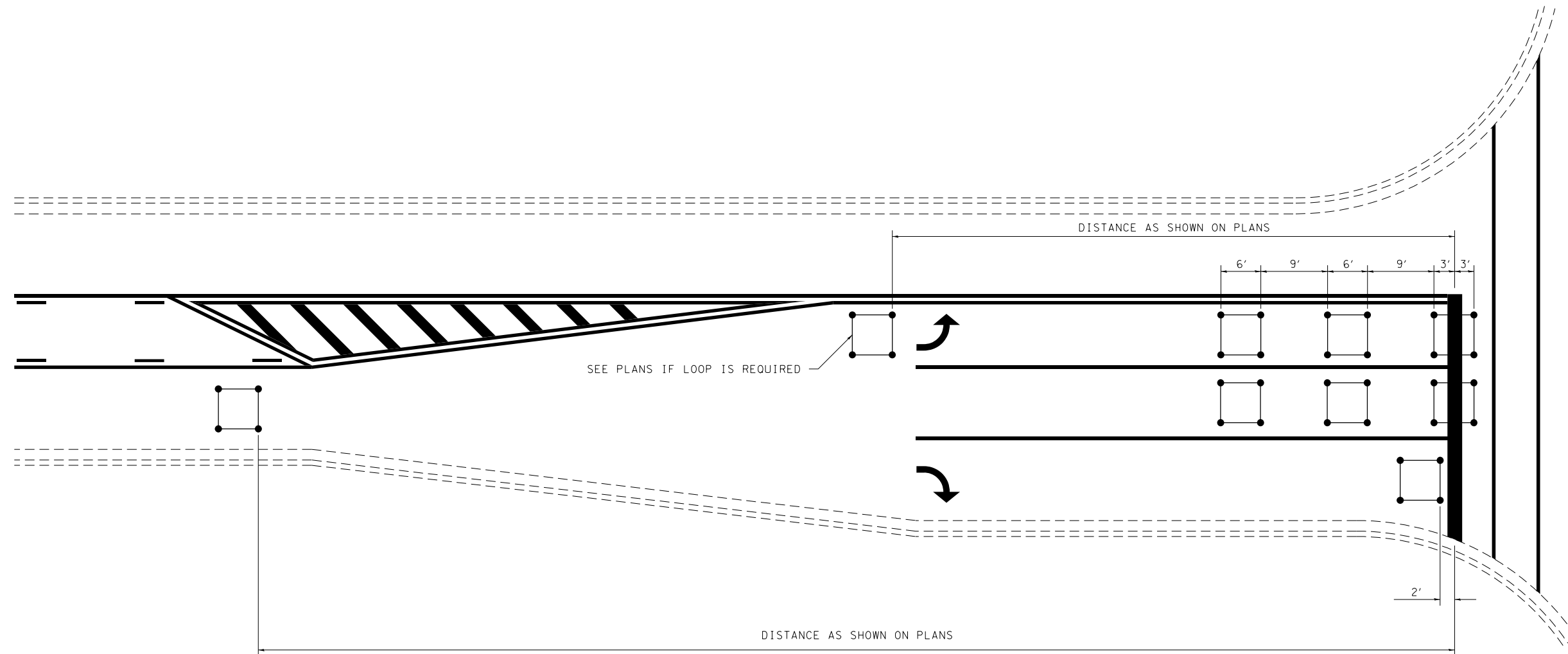
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP LAYOUT
INTERSECTION OF PERSHING AVE & 22nd STREET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macou	39	25
CONTRACT NO. 74510			ILLINOIS FED. AID PROJECT	

TYPICAL APPLICATION OF DETECTOR LOOPS



NOTE:

1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
2. LOOPS SHOULD BE CENTERED IN EACH LANE.
3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

NOT TO SCALE

DISTRICT 7 DETAIL NO. 88600100

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	PLOT DATE = 6/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS OF DETECTOR LOOPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macon	38	26
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 74510				



SOIL BORING LOG

ROUTE FAP 320 (IL 48) DESCRIPTION Traffic Signal Mast Arm Foundations: Pershing Rd and 22nd Street LOGGED BY E. Sandschafer
SECTION 126N LOCATION S 1/2 - Sec 36 - T 17 N; NE 1/4 - Sec 1 - T 16 N, SEC. , TWP. , RNG. 2 E, 3 PM
COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNIFORMITY (%)	DEPT	BL	UC	MO
N/A		1 NW	*		663.70									
						663.60		3" topsoil.						
						662.10		Hard, damp, gray, SANDY CLAY LOAM TILL. (continued)				18	6.1	8
						658.00		Stiff, damp, very dark brown to gray, CLAY.				2		
						656.70		Gray, CLAY LOAM.				2		
						656.00		Medium to stiff, damp, gray, SILTY LOAM.				0	1.0	23
						653.50		Brown, wet, fine grained, SAND. 11% passing #200 sieve.				1		
						651.70		10% passing #200 sieve. Medium, damp, gray, LOAM.				1	0.6	17
						649.20		Very stiff, damp, gray, LOAM TILL.				2	2.3	13
						646.70		Very stiff, damp, gray, SILTY LOAM TILL. Weak in horizontal plane.				5	2.5	17
						644.20		Hard, damp, gray, CLAY LOAM TILL.				8	5.0	10

Benchmark: Chiseled square on headwall of culvert under IL 48, in NW quadrant of IL 48/IL 121 intersection = 662.13' elevation.

* B1 Location: 14' S and 12.5' W of existing traffic signal mast arm foundation in NW quadrant.

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2012 MAST ARM FOUNDATIONS PERSHING AND 22ND (MACON 265).GPJ Data Template D6TEMPLT.GDT Date Printed 6/7/12 Latitude W 80 deg 55.487 min Longitude N 39 deg 52.664 min Datum Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 320 (IL 48) DESCRIPTION Traffic Signal Mast Arm Foundations: Pershing Rd and 22nd Street LOGGED BY E. Sandschafer
SECTION 126N LOCATION S 1/2 - Sec 36 - T 17 N; NE 1/4 - Sec 1 - T 16 N, SEC. , TWP. , RNG. 2 E, 3 PM
COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNIFORMITY (%)	DEPT	BL	UC	MO
N/A		2 SE	*		663.90									
						663.60		3" topsoil.						
						642.70		Hard, very moist, brown, Gravelly CLAY.				18	6.1	8
						641.90		Stiff, very damp, gray, SANDY LOAM w/ small gravel. (continued)				16		17
						640.40		Hard, damp, gray, SANDY CLAY TILL.				12	9.7	9
						659.40		Medium to soft, very damp, gray, CLAY.				2	4.5	10
						656.90		Soft, damp, brown marbled gray, SILTY LOAM.				1	0.5	26
						655.90		Brown, SANDY LOAM.				0	B	
						654.40		Soft to medium, damp, gray, LOAM.				1	0.5	22
						648.90		Very stiff, damp, gray, CLAY LOAM TILL.				2	0.5	15
						646.90		Hard, damp, gray, SANDY CLAY LOAM TILL.				4	3.1	13
						644.40		Hard, damp, gray, SANDY CLAY LOAM TILL.				6	4.5	9

Benchmark: Chiseled square on headwall of culvert under IL 48, in NW quadrant of IL 48/IL 121 intersection = 662.13' elevation.

* B2 Location: 1.5' N and 8' E of existing traffic signal mast arm foundation in SE quadrant.

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2012 MAST ARM FOUNDATIONS PERSHING AND 22ND (MACON 265).GPJ Data Template D6TEMPLT.GDT Date Printed 6/8/12 Latitude W 80 deg 55.487 min Longitude N 39 deg 52.664 min Datum Job Number

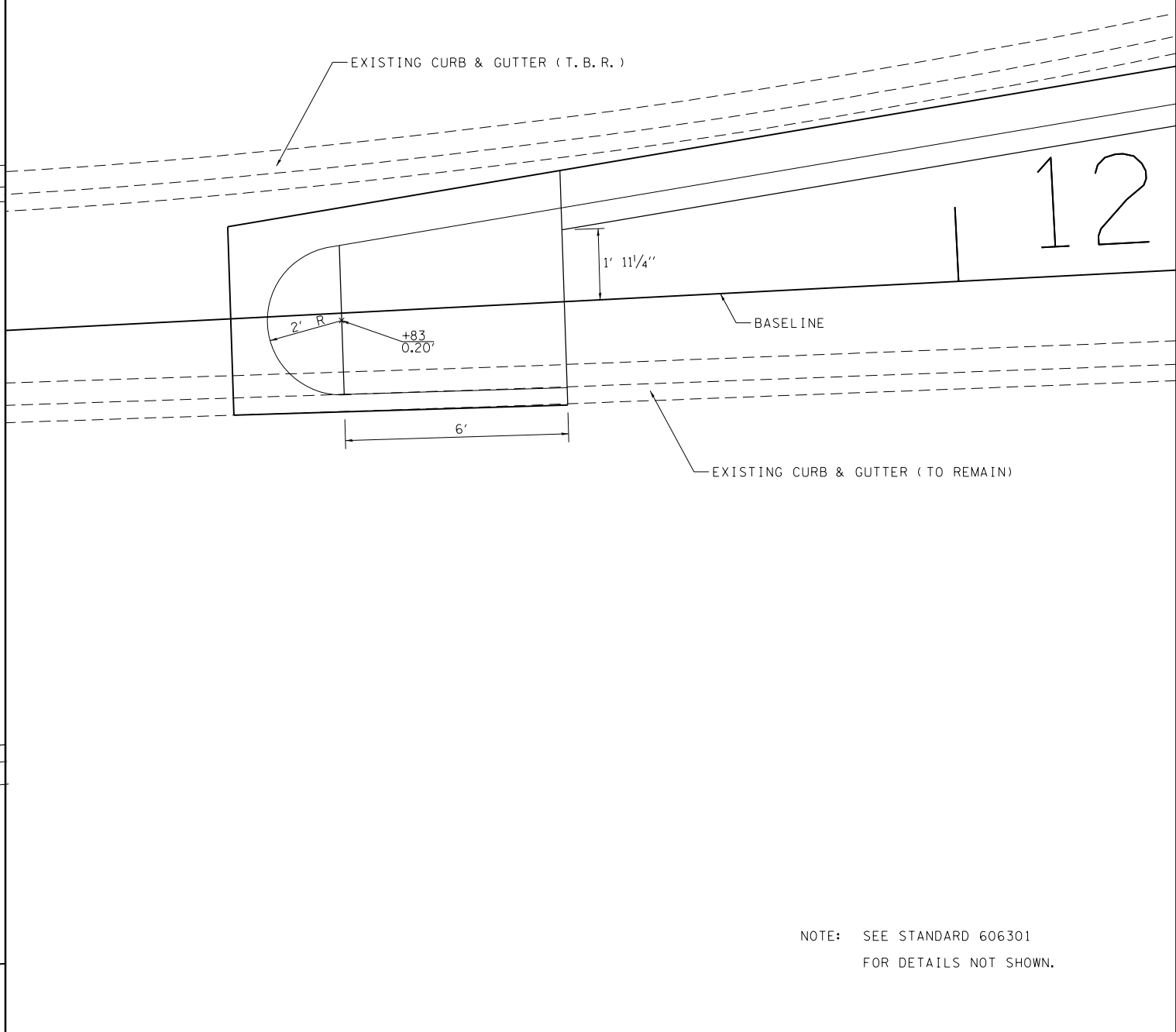
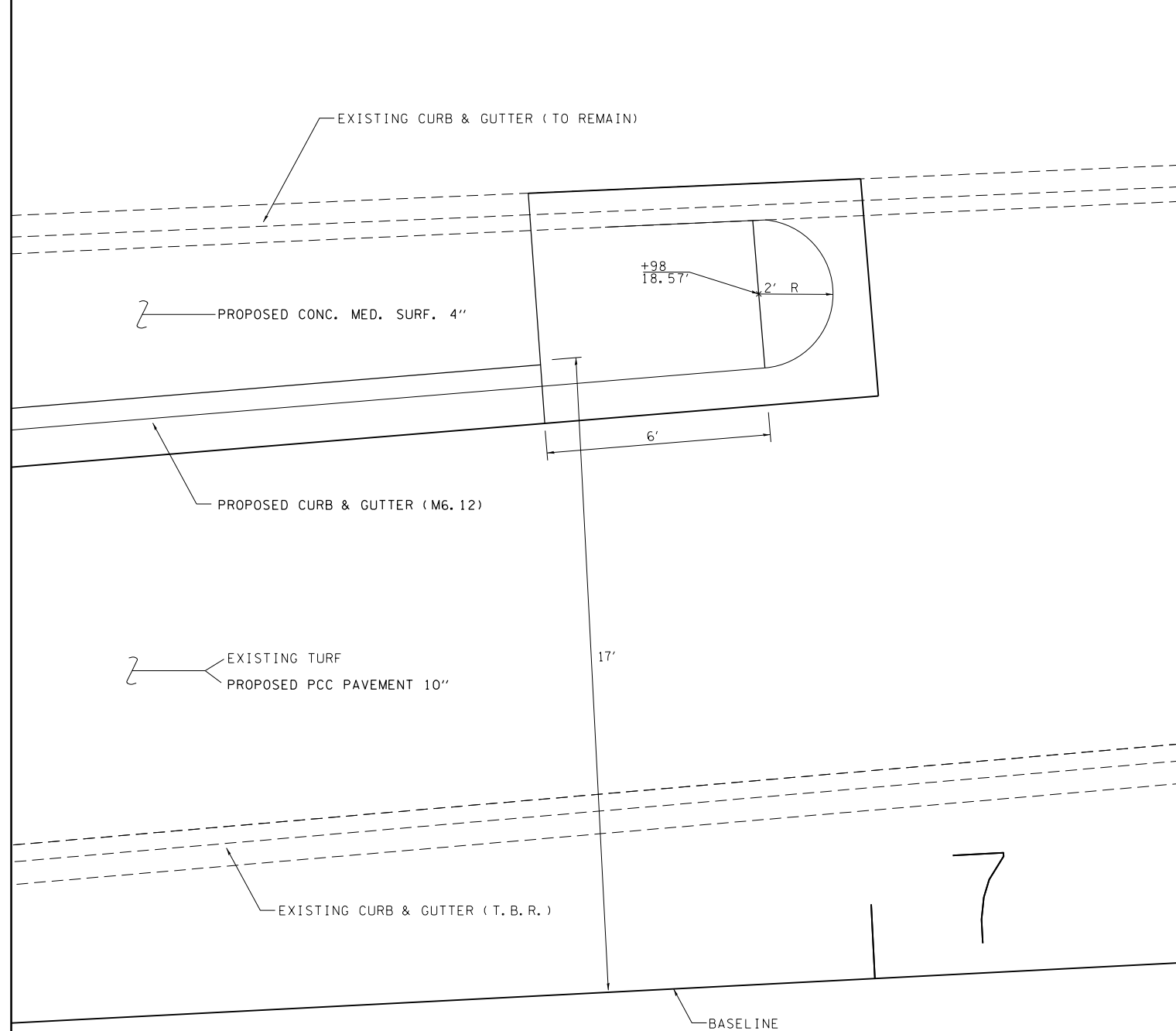
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



EAST END OF WEST MEDIAN



WEST END OF EAST MEDIAN



NOTE: SEE STANDARD 606301 FOR DETAILS NOT SHOWN.

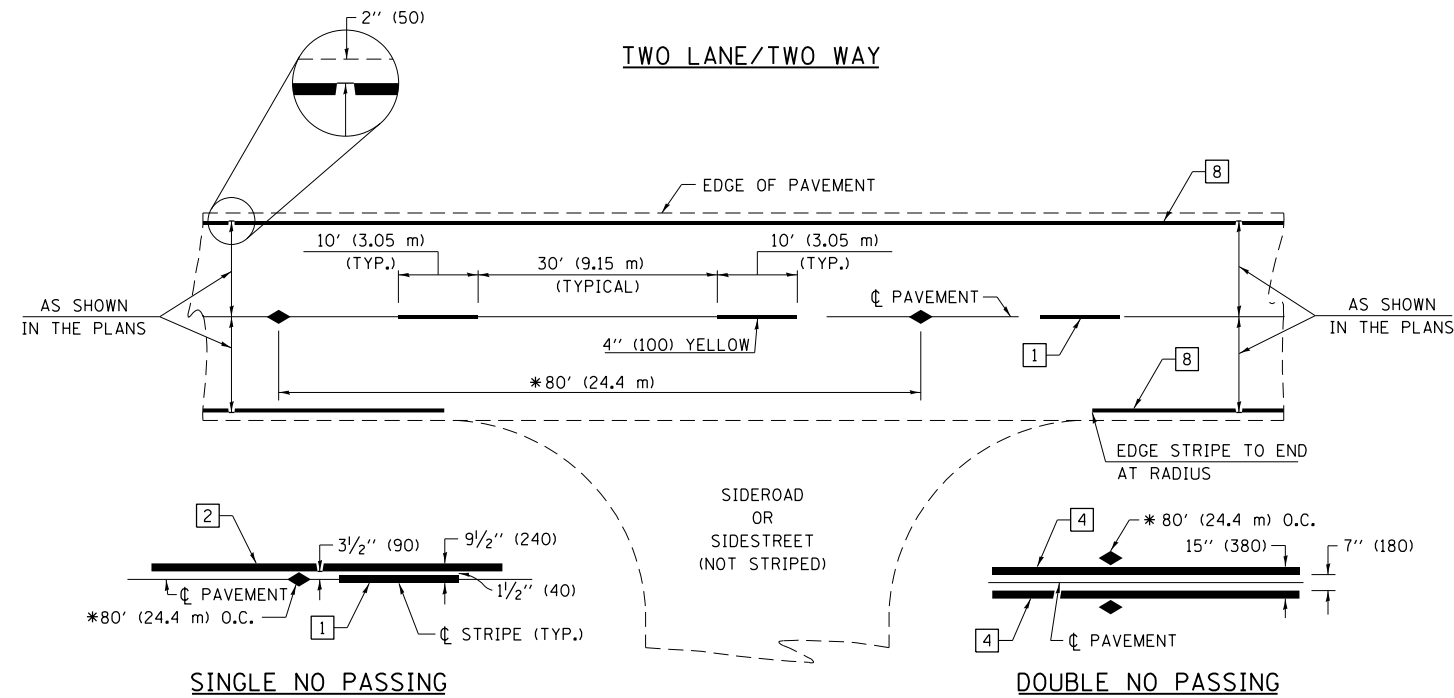
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

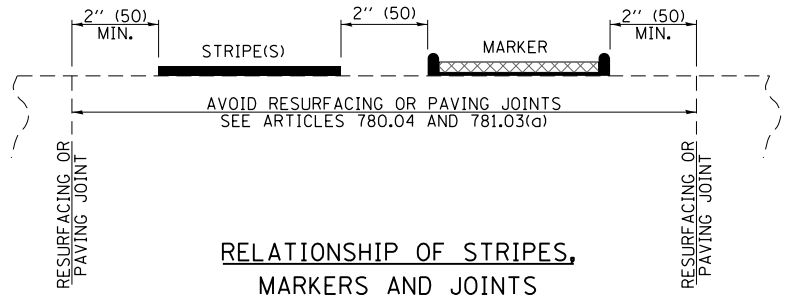
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macon	39	28
CONTRACT NO. 74510			ILLINOIS FED. AID PROJECT	



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

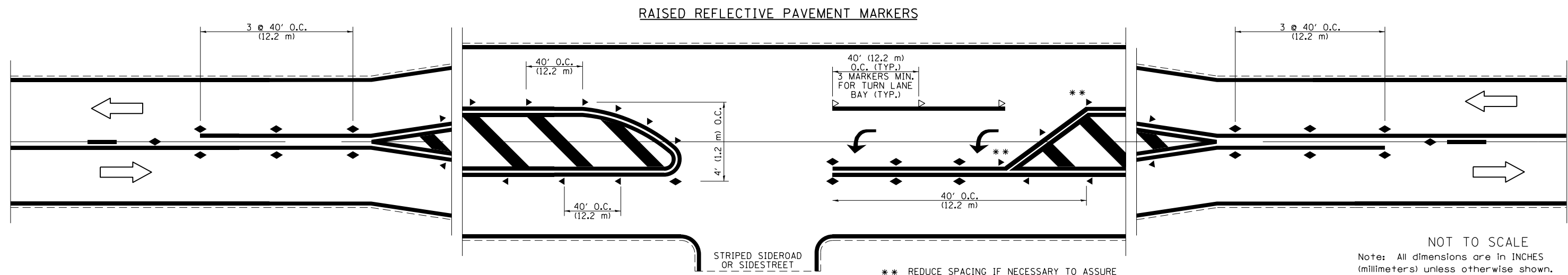
PAVEMENT MARKING LEGEND

- 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
-

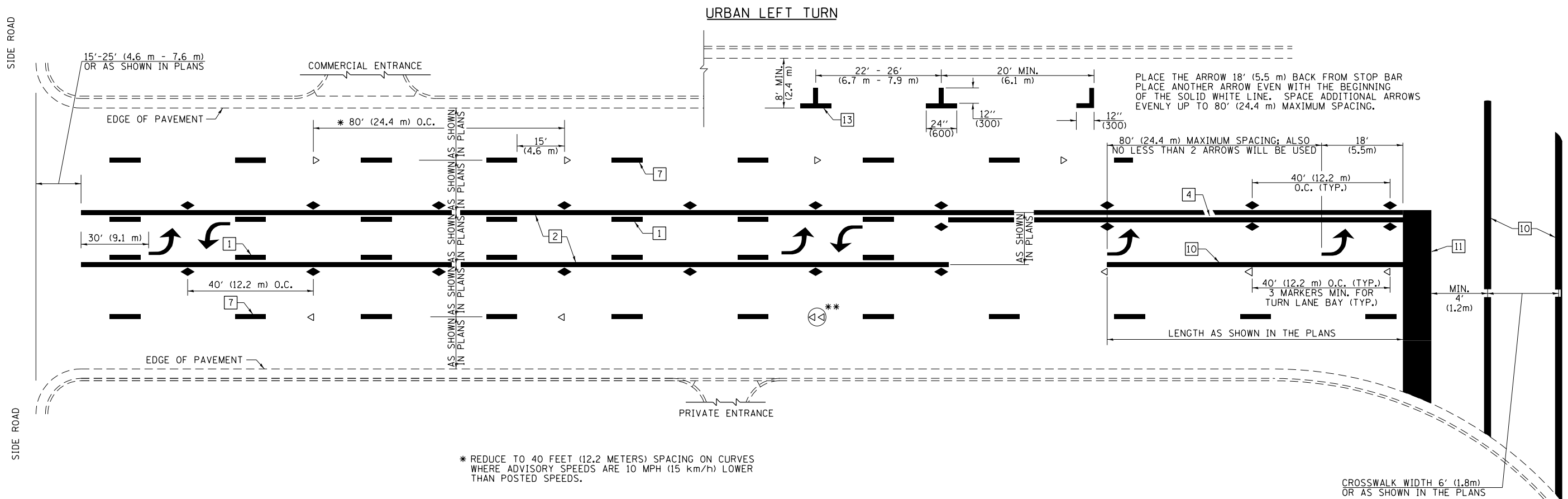


TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

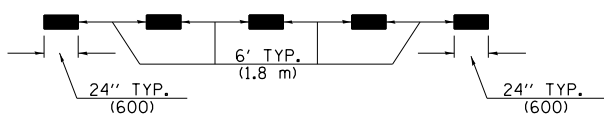
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

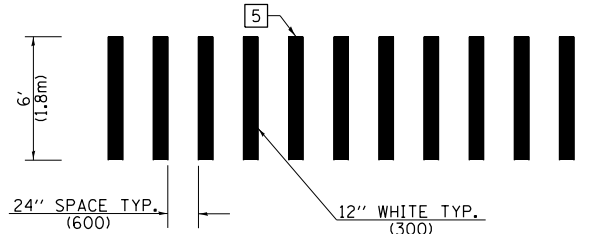
- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 RESERVED
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24"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

GENERAL NOTES

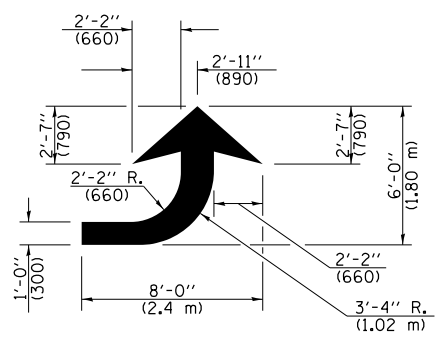
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



LANE LINE EXTENSIONS

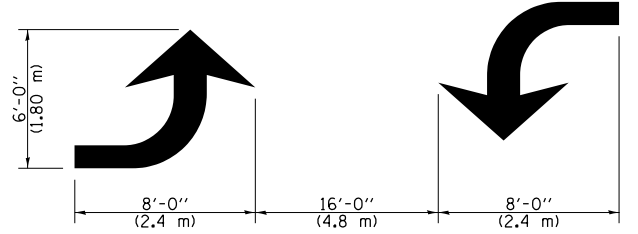


CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



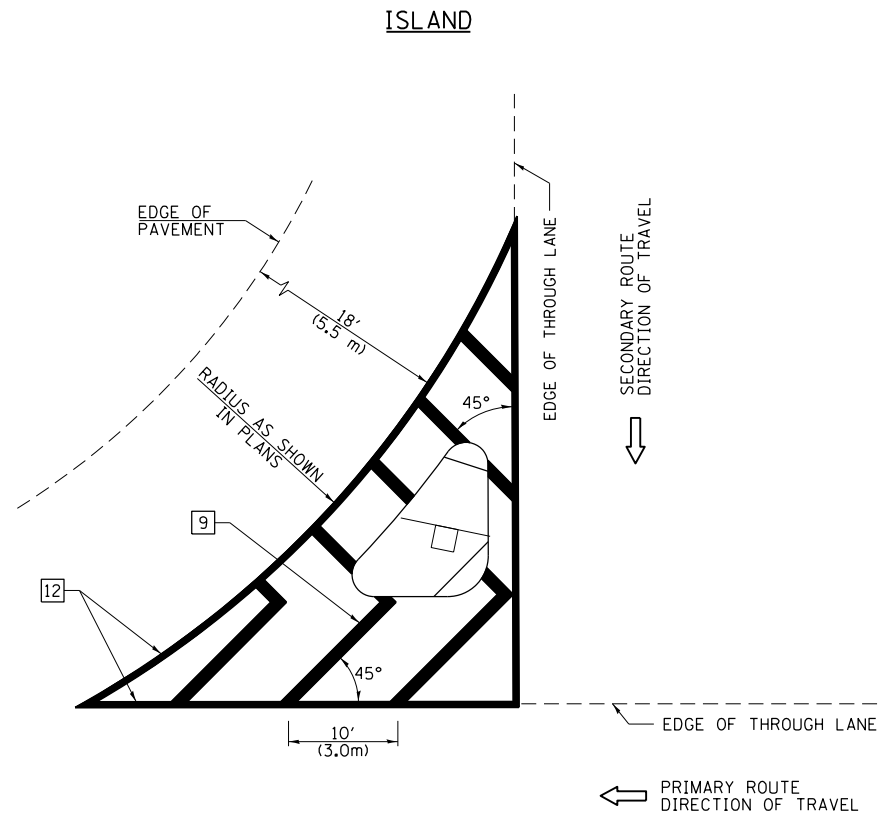
TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\p\d02\steffenmk\d0247536\0774510-sh1-detail.dgn		DRAWN -	REVISED -			320	126N	Macon	39	30
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 74510				
PLOT DATE = 6/29/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

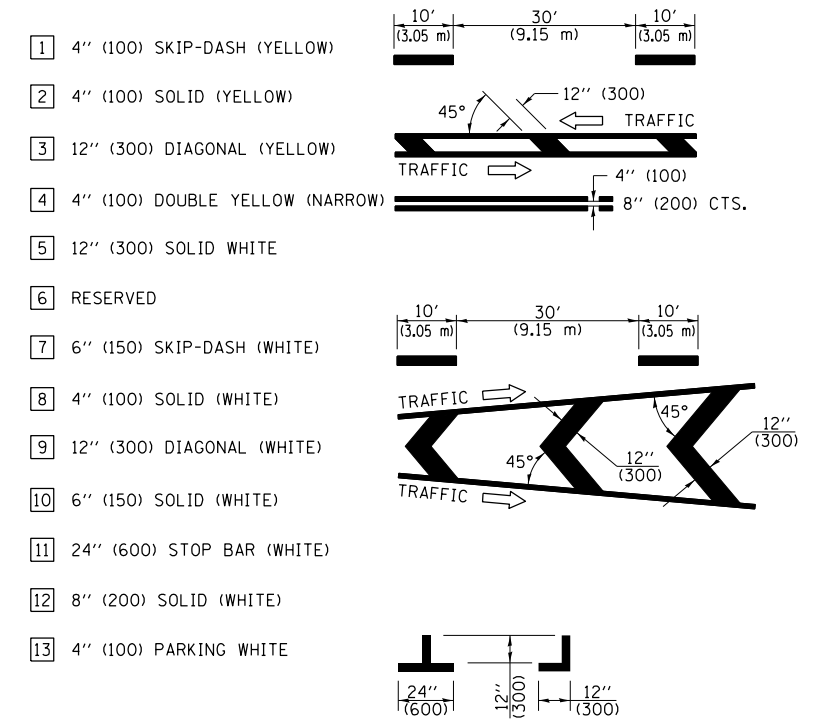


GENERAL NOTES

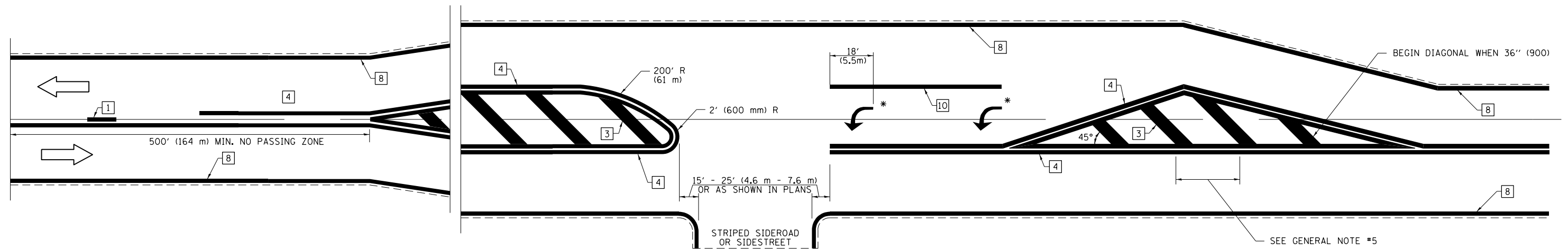
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
>45 MPH (>75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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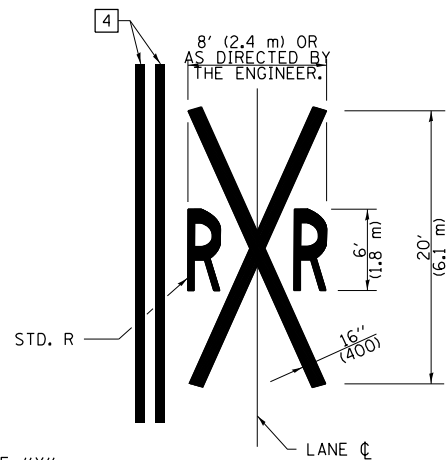
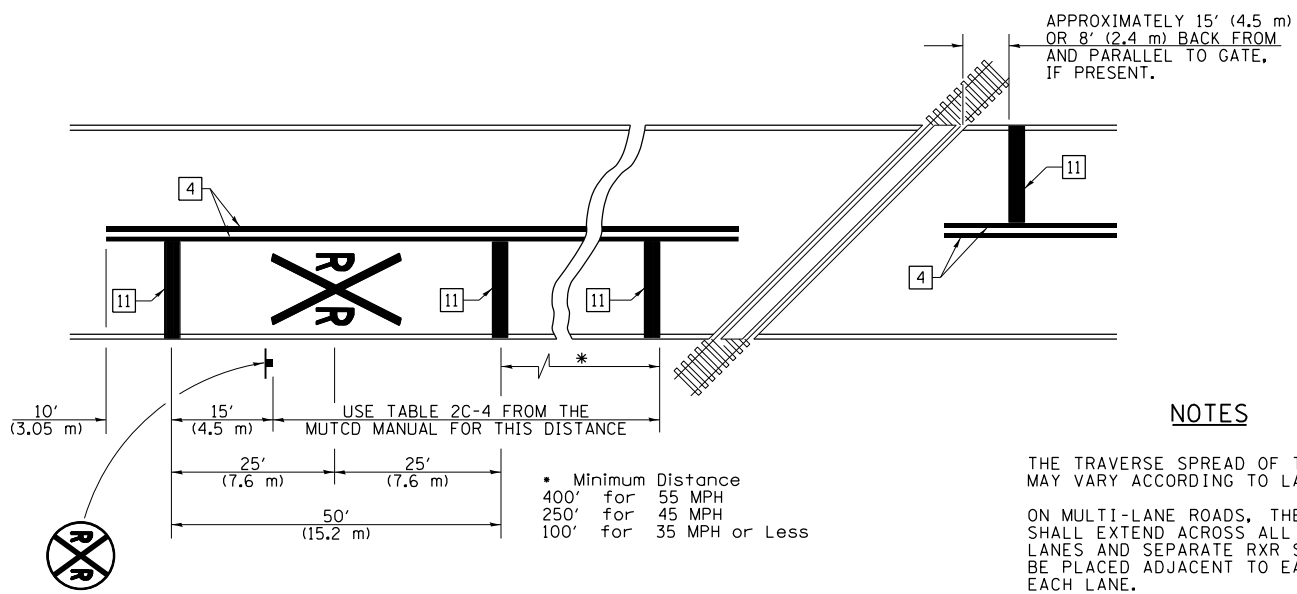
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macon	39	31
CONTRACT NO. 74510			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



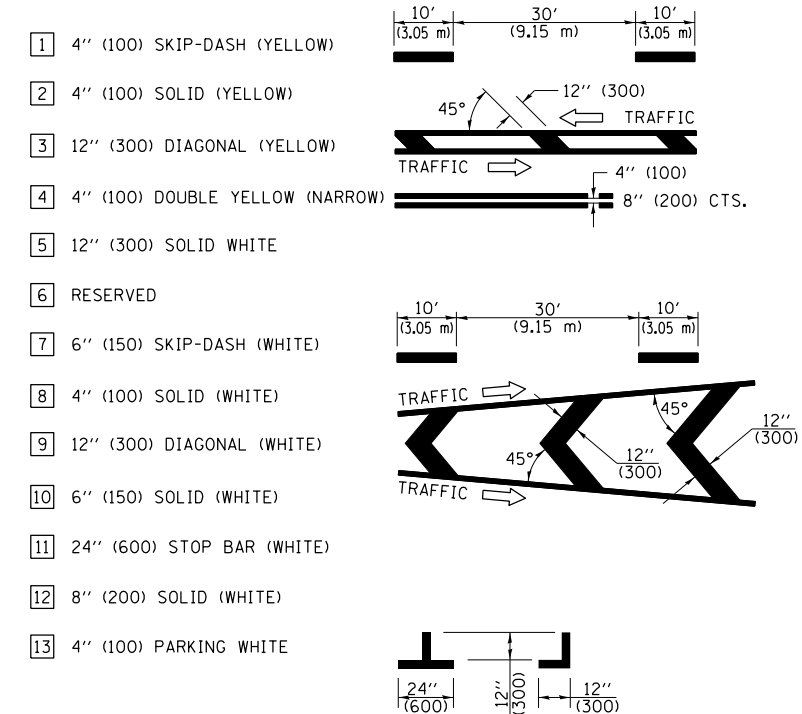
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

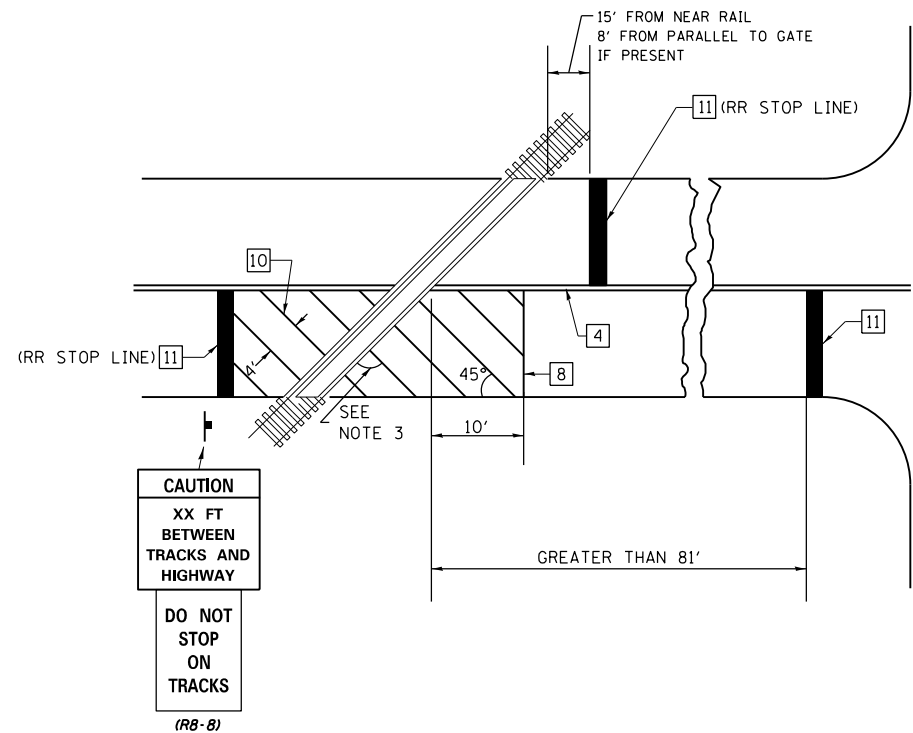
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

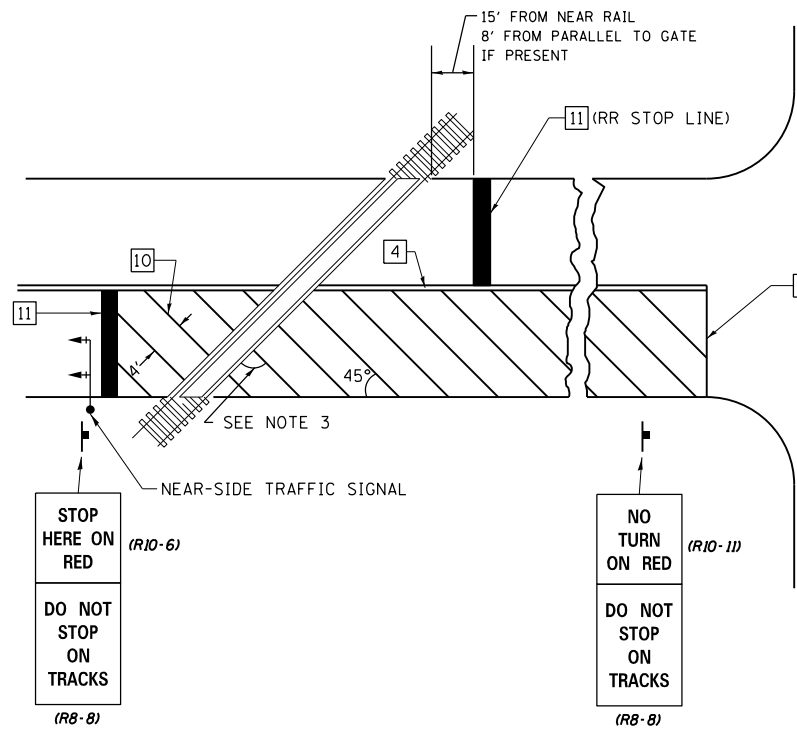
PAVEMENT MARKING LEGEND



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	PLOT DATE = 6/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

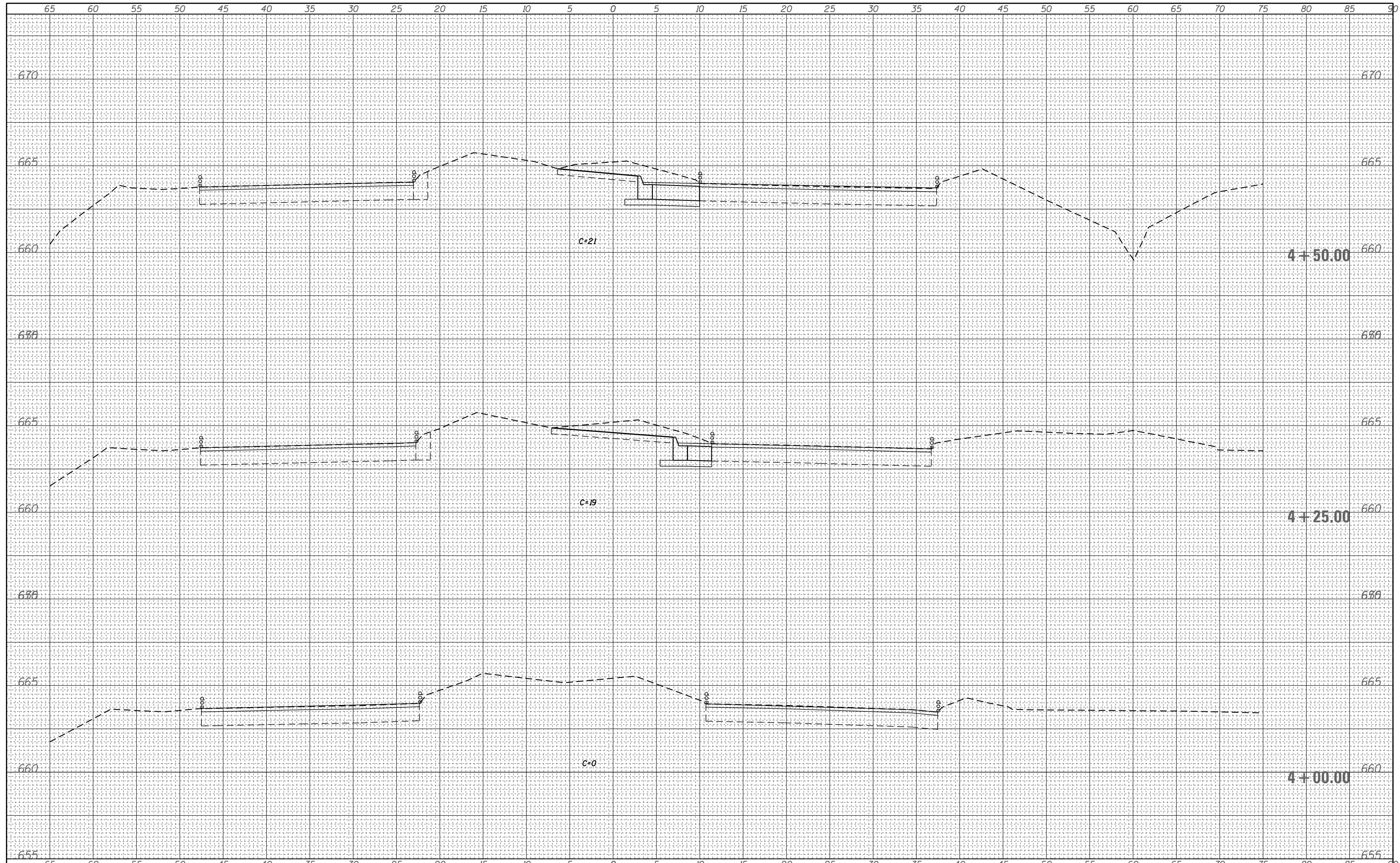
SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 78000001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macon	39	32
CONTRACT NO. 74510				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

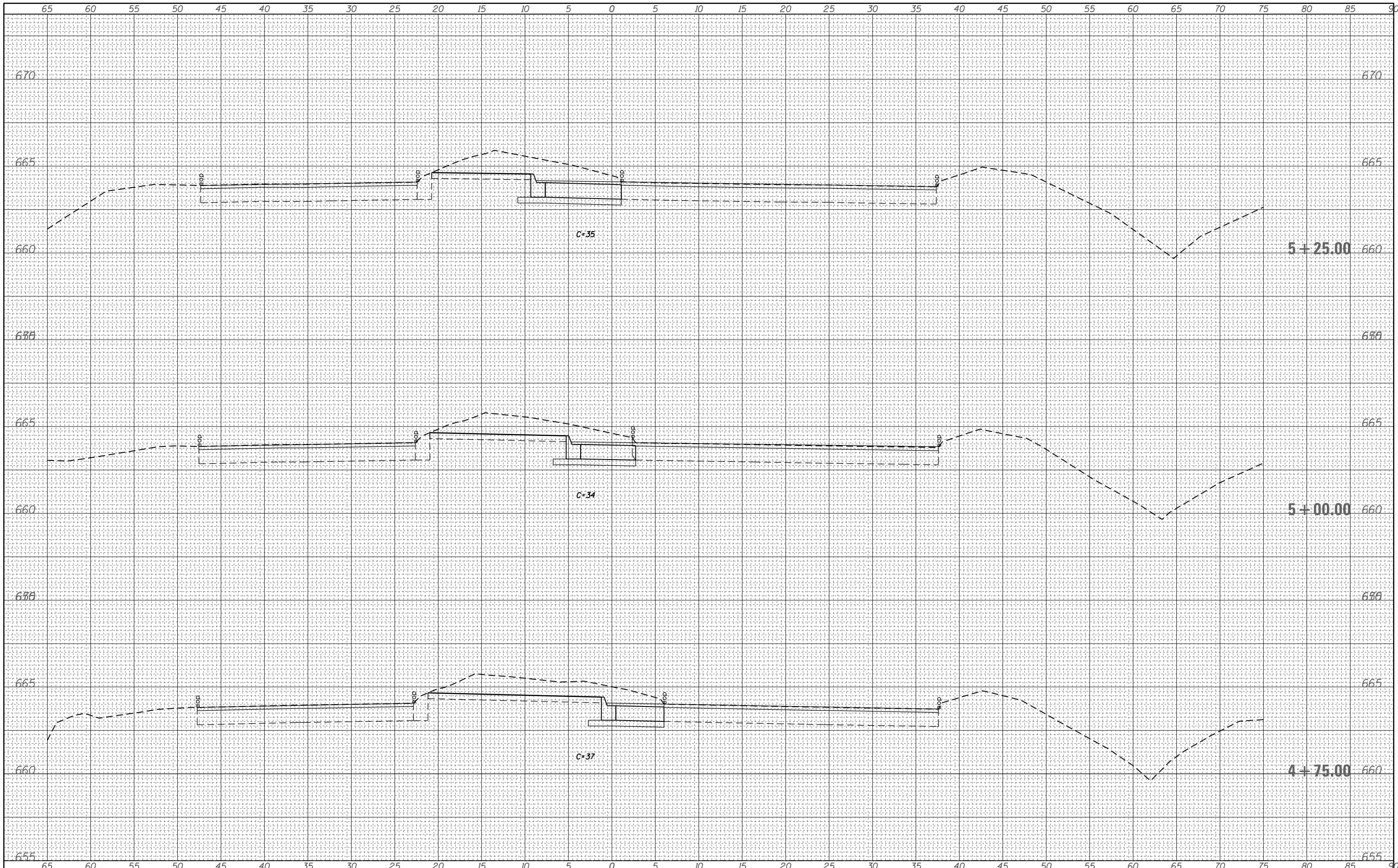
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BY	
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SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: SHEET OF SHEETS STA. 4+00.00 TO STA. 4+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 6/29/2012	DATE -	CHECKED -	REVISED -			CONTRACT NO. 74510				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	

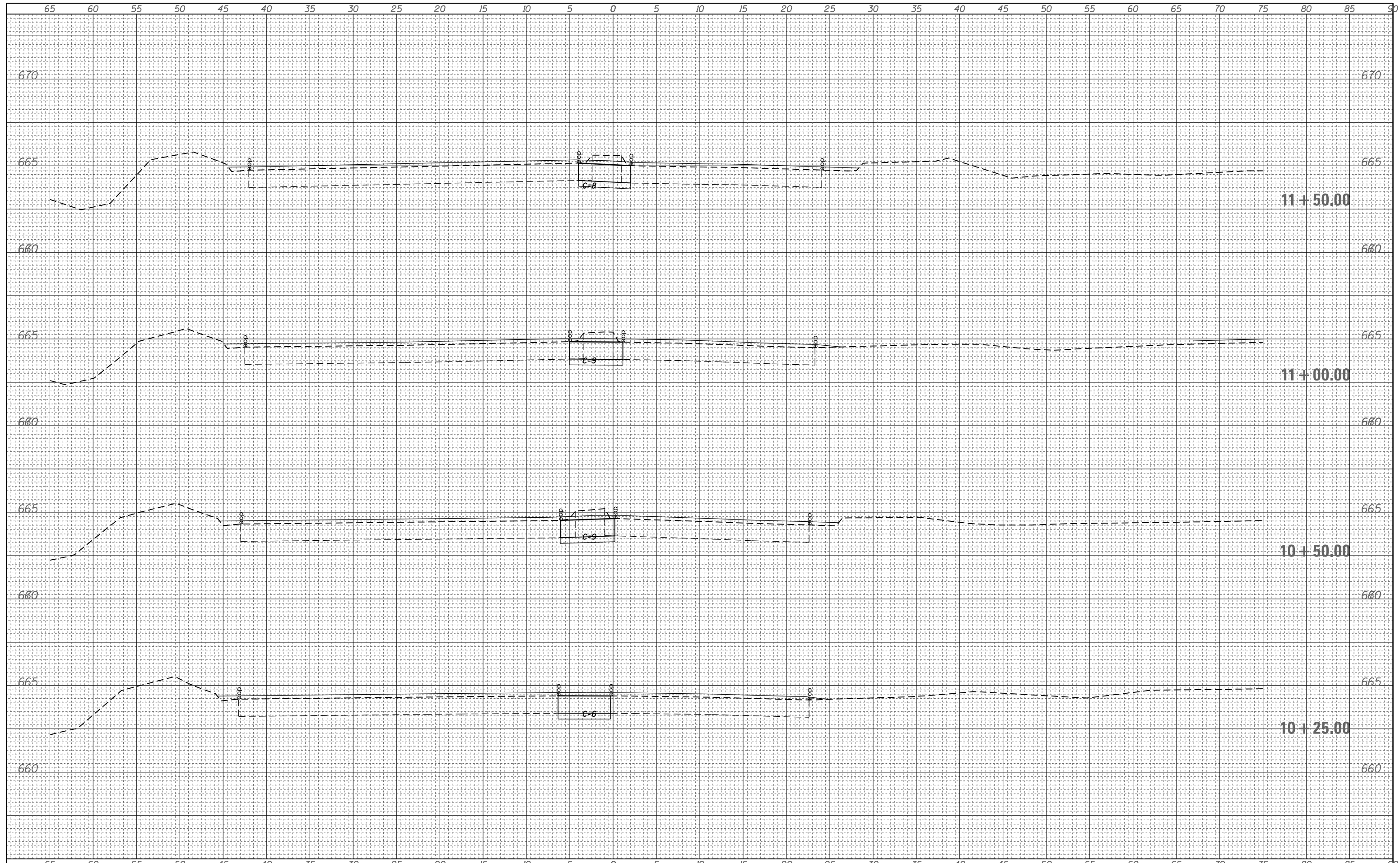
DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 10.0000' / in.		CHECKED -	REVISIED -			CONTRACT NO. 74510				
PLOT DATE = 6/29/2012		DATE -	REVISIED -			ILLINOIS FED. AID PROJECT				
SCALE: SHEET OF SHEETS STA. 4+75.00 TO STA. 5+25.00										

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: SHEET OF SHEETS STA. 10+25.00 TO STA. 11+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	CONTRACT NO. 74510							
PLOT DATE = 6/29/2012	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT							

