

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

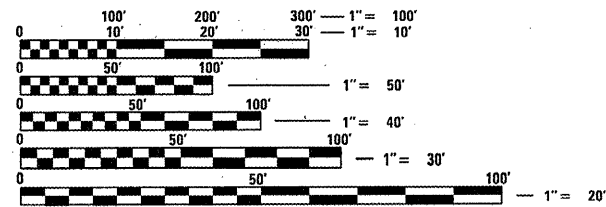
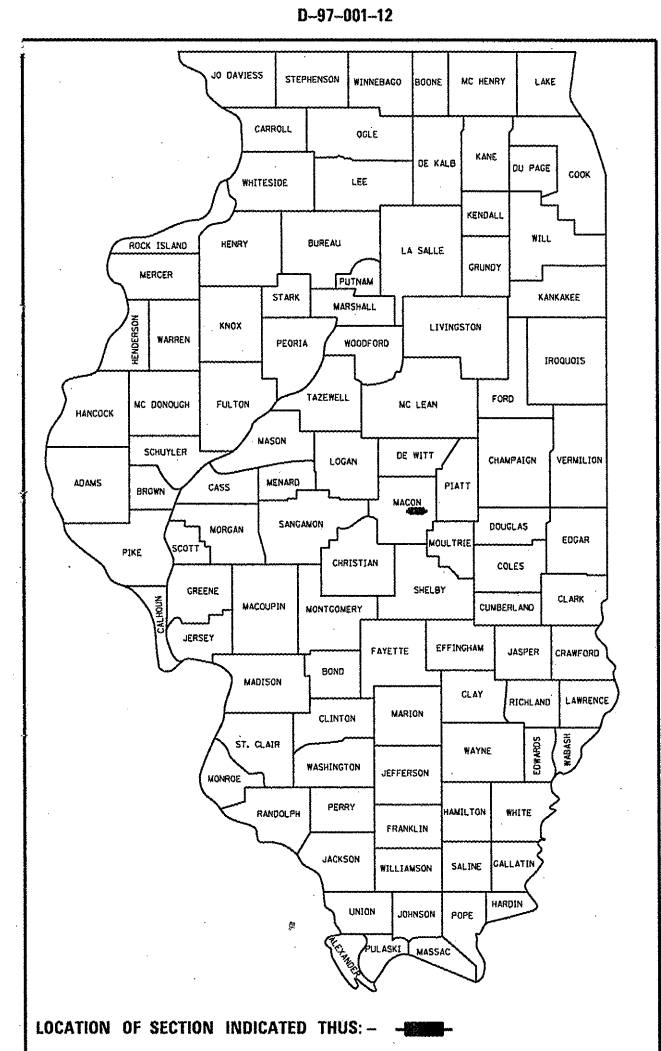
**PROPOSED
 HIGHWAY PLANS**

F.A.P. ROUTE 320 (U.S. ROUTE 36)
 SECTION (137Z,139-X-2)N
 PROJECT HSIP-0320(037)
 INTERSECTION IMPROVEMENT
 MACON COUNTY
 C-97-002-12

FOR INDEX OF SHEETS, SEE SHEET NO. 2

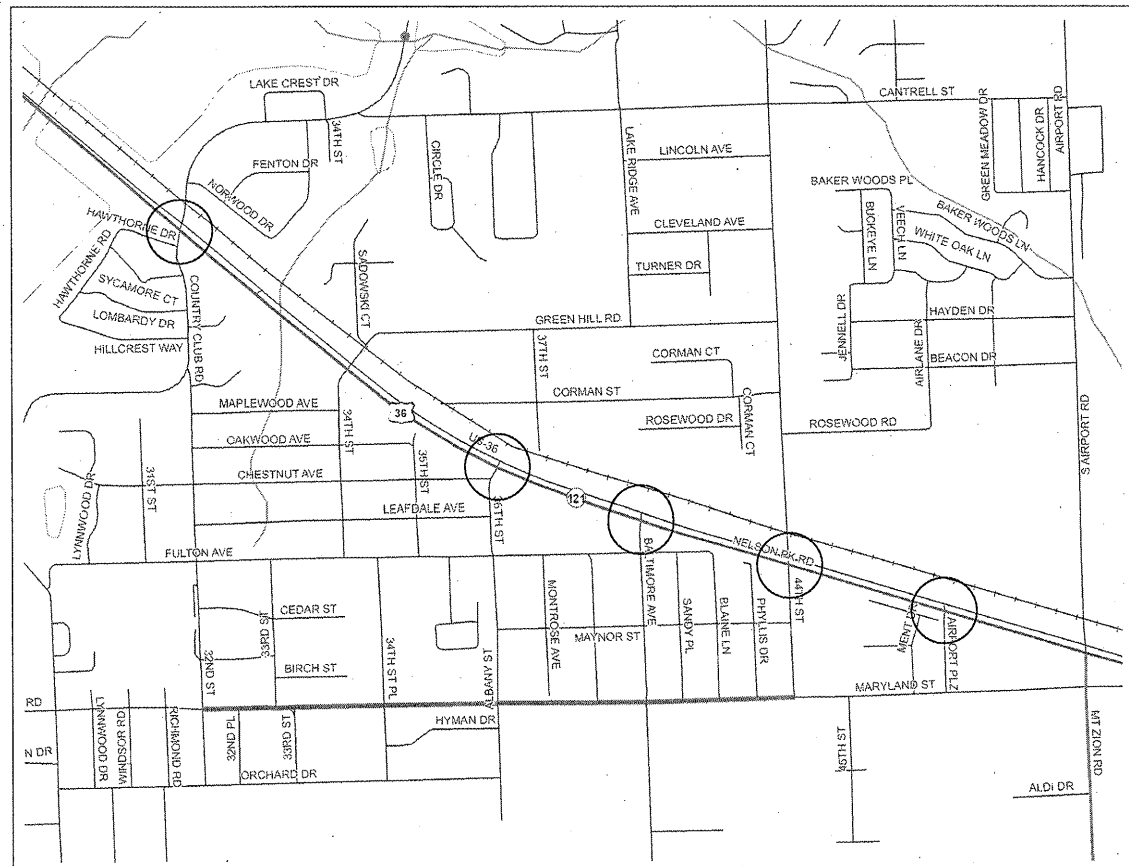
ADT = 24,400 (2010)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	1
		ILLINOIS	CONTRACT NO. 74539	



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: TOM RONAN
 PROJECT MANAGER: BRETT WALKER
 PHONE: (217)-342-8314
 CONTRACT NO. 74539

GROSS LENGTH = 901 FT. = .171 MILE
 NET LENGTH = 901 FT. = .171 MILE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 27 2012
Roger L. Drakell / mgw
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 2012
John D. Baranzelli P.E. / ea
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 11 2012
William R. Freyler
 acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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36-39	PAVEMENT MARKING DETAILS

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
420701-02	PAVEMENT FABRIC
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
606301-04	PCC ISLANDS AND MEDIANS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W MORE THAN 15' AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W 15' TO 24" FROM PAVEMENT EDGE
701101-02	OFF-RD OPERATIONS, MULTI-LANE, LESS THAN 15' TO PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701422-04	LANE CLOSURE, MULTI-LANE, 45 - 55 MPH
701426-04	LANE CLOSURE, MULTI-LANE, INTERMITTANT OR MOVING OPERATION, 45 MPH PLUS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-01	SUPERVISED RAILROAD INTERCONNECT-CIRCUIT
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND STANDARDS IN THE PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\dot\swartzw\0273662\077	539-shr-index.dgn	DRAWN -	REVISED -			320	(137Z,139-X-2)N	MACON	39	2	
PLOT SCALE = 100.0000' / 1 in.	CHECKED -	REVISED -	SCALE: N/A			SHEET 1	OF 1	SHEETS	STA.	TO STA.	CONTRACT NO. 74539
PLOT DATE = 4/6/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

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 THE PROPOSAL.

THIS PROJECT IS LOCATED IN DECATUR AT THE FOLLOWING FIVE INTERSECTIONS OF US ROUTE 36: COUNTRY CLUB ROAD, 36TH STREET, BALTIMORE AVENUE, 44TH STREET, AND AIRPORT PLAZA. THE WORK INCLUDED IN SECTION (137Z,139-X-2)N CONSISTS OF TRAFFIC SIGNAL MODERNIZATIONS, GEOMETRIC REVISIONS, PAVEMENT PATCHING, REMOVING THE EXISTING THIN CONCRETE OVERLAY AT COUNTRY CLUB ROAD AND REPLACEMENT WITH HMA RESURFACING, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

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. THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE HMA BINDER COURSE, BITUMINOUS MATERIALS (PRIME COAT), AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 4" CONSISTS OF 545 FEET OF YELLOW AND 430 FEET OF WHITE, THERMOPLASTIC PAVEMENT MARKING - LINE 6" CONSISTS OF 1425 FEET OF WHITE, THERMOPLASTIC PAVEMENT MARKING - LINE 8" CONSISTS OF 296 FEET OF WHITE, THERMOPLASTIC PAVEMENT MARKING - LINE 12" CONSISTS OF 564 FEET OF WHITE, THERMOPLASTIC PAVEMENT MARKING - LINE 16" CONSISTS OF 44 FEET OF WHITE, THERMOPLASTIC PAVEMENT MARKING - LINE 24" CONSISTS OF 212 FEET OF WHITE AND THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS" CONSISTS OF 186 SQUARE FEET OF WHITE.

THE CONTRACTOR SHALL USE EITHER, RC-70, SS-1HP, OR SSIH APPLIED AT THE RATE DIRECTED BY THE ENGINEER, FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY 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.

VIBRATORY ROLLERS IN DYNAMIC MODE WILL NOT BE PERMITTED. DENSITY REQUIREMENTS MUST STILL BE MET.

THE SAW CUT REQUIRED FOR THE PAVED SHOULDER REMOVAL SHALL BE INCLUDED IN THE COST OF PAVED SHOULDER REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ANY EXCAVATION NECESSARY FOR CONSTRUCTION OF THE PCC BASE COURSE WIDENING, 10" AND PCC BASE COURSE, 10" SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS AND AS SPECIFIED IN THE SPECIAL PROVISIONS. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

TEMPORARY HMA TAPERS WILL BE REQUIRED IMMEDIATELY AFTER THE HMA BINDER PLACEMENT OPERATIONS HAVE BEEN PERFORMED AND ANY SUBSEQUENT RESURFACING OPERATION NEEDING TEMPORARY TAPERS. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY TAPERS (MIN. 2 FEET IN LENGTH) AT MANHOLES AND VALVE VAULTS. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE THE SAME DEPTH AS THE HOT-MIX ASPHALT SURFACE REMOVAL. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE SUBBASE GRANULAR MATERIAL, TYPE B SHALL BE CRUSHED STONE.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR ALL HOT-MIX ASPHALT.

GENERAL NOTES (Cont' d)

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE: PAVEMENT PATCHING
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0%@NDESIGN = 90
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

MIXTURE USE: SURFACE COURSE (1 1/2")
 APPLICATION: POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, IL-9.5, N90
 PG GRADE: SBS PG 70-22
 DESIGN AIR VOIDS: 4.0%@NDESIGN = 90
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE D

MIXTURE USE: LEVELING BINDER (VARIABLE DEPTH)
 APPLICATION: HOT MIX ASPHALT LEVELING BINDER, IL-9.5, N90
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0%@NDESIGN = 90
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: N/A

MIXTURE USE: HMA SHOULDERS, 6 1/2" (SQ YD)
 APPLICATION: HOT MIX ASPHALT BINDER COURSE, IL-19.0, N30
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0%@NDESIGN = 30
 MIXTURE COMPOSITION: IL-19.0L
 FRICTION AGGREGATE: N/A

MIXTURE USE: PARTIAL DEPTH PAVEMENT PATCHING
 APPLICATION: HOT MIX ASPHALT BINDER COURSE, IL-19.0, N90
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0%@NDESIGN = 90
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL/SQ YD
AGGREGATE (PRIME COAT)	4 LBS/SQ YD
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\dot\steffennk\0273662\07	4539-shr-index.dgn	DRAWN -	REVISED -			320	(137Z,139-X-2)N	MACON	39	3
PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -				CONTRACT NO. 74539				
PLOT DATE = 3/27/2012	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: N/A	SHEET 1 OF 1 SHEETS	STA.	TO STA.			

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SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005	0021
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	153	153	
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SO YD	384	384	
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SO YD	177	177	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	278	278	
40600300	AGGREGATE (PRIME COAT)	TON	11	11	
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	628	628	
40600990	TEMPORARY RAMP	SO YD	92	92	
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	466	466	
42001200	PAVEMENT FABRIC	SO YD	422	422	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	189	189	
42400800	DETECTABLE WARNINGS	SO FT	22	22	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	527	527	
44000600	SIDEWALK REMOVAL	SO FT	110	110	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005	0021
44004250	PAVED SHOULDER REMOVAL	SO YD	112	112	
44201811	CLASS D PATCHES, TYPE I, 14 INCH	SO YD	19	19	
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SO YD	100	100	
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	160	160	
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SO YD	153	153	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	54	54	
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SO YD	169	169	
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	89	89	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	114	114	
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	108	108	
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	303	303	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1	

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SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005	0021
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	0.5	0.5
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1		1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10		10
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.5	0.5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1583	1583	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	94	94	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	975	975	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005	0021
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1425	1425	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	296	296	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	564	564	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	212	212	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	396	396	
X 72000100	SIGN PANEL - TYPE 1	SO FT	96.75		96.75
X 72000200	SIGN PANEL - TYPE 2	SO FT	64.5		64.5
X 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	94	94	
X 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	975	975	
X 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1425	1425	
X 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	296	296	
X 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	564	564	
X 78000610	THERMOPLASTIC PAVEMENT MARKING - LINE 16"	FOOT	44	44	

X SPECIALTY ITEM

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pvidot\swartzw\00273662\077	539-sht-soq.dgn	DRAWN -	REVISED -					320	(137Z,139-X-2)N	MACON	39	5
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: N/A			SHEET 2 OF 5 SHEETS STA. TO STA.				
	PLOT DATE = 4/6/2012	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

CONTRACT NO. 74539

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SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005	0021	
X 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	212	212		
X 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	40	40		
80500100	SERVICE INSTALLATION, TYPE A	EACH	1		1	
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	85		85	
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	833		833	
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	36		36	
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	110		110	
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	754		754	
81400100	HANDHOLE	EACH	14		14	
81400300	DOUBLE HANDHOLE	EACH	1		1	
81500100	GULFBOX JUNCTION	EACH	4		4	
85700210	RAILROAD FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1	
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	2		2	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	902		902	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5490		5490	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005	0021	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	656		656	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4349		4349	
87301605	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 16 3 PAIR	FOOT	160		160	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	20		20	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	915		915	
87502660	TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	1		1	
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	10		10	
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	3		3	
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2		2	
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1	
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1		1	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	42		42	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5		3.5	

X SPECIALTY ITEM

FILE NAME #	USER NAME # swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pvidot\swartzw\0273662\077	539-sht-sq.dgn	DRAWN -	REVISED -				320	(1372,139-X-2)N	MACON	39	6
PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISOR -	SCALE: N/A		SHEET 3	OF 5 SHEETS	STA.	TO STA.		CONTRACT NO. 74539	
PLOT DATE = 4/6/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

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SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005	0021	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	12		12	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	53		53	
87900200	DRILL EXISTING HANDHOLE	EACH	5		5	
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9		9	
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10		10	
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1		1	
88040230	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3		3	
88040250	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1		1	
88102810	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2		2	
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	47		47	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005	0021	
88500100	INDUCTIVE LOOP DETECTOR	EACH	18		18	
88600100	DETECTOR LOOP, TYPE I	FOOT	1874		1874	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2		2	
89100400	ILLUMINATED SIGN, LED	EACH	2		2	
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	18		18	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2		2	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3		3	
89502380	REMOVE EXISTING HANDHOLE	EACH	8		8	
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5		
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	2579	2579		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2278	2278		

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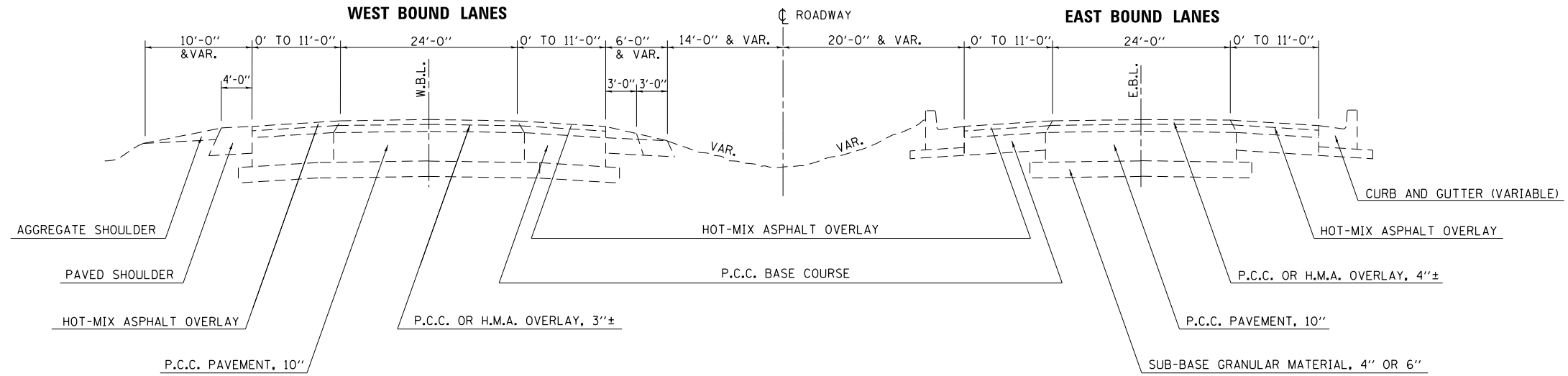
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET 4	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	7
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL CROSS SECTION

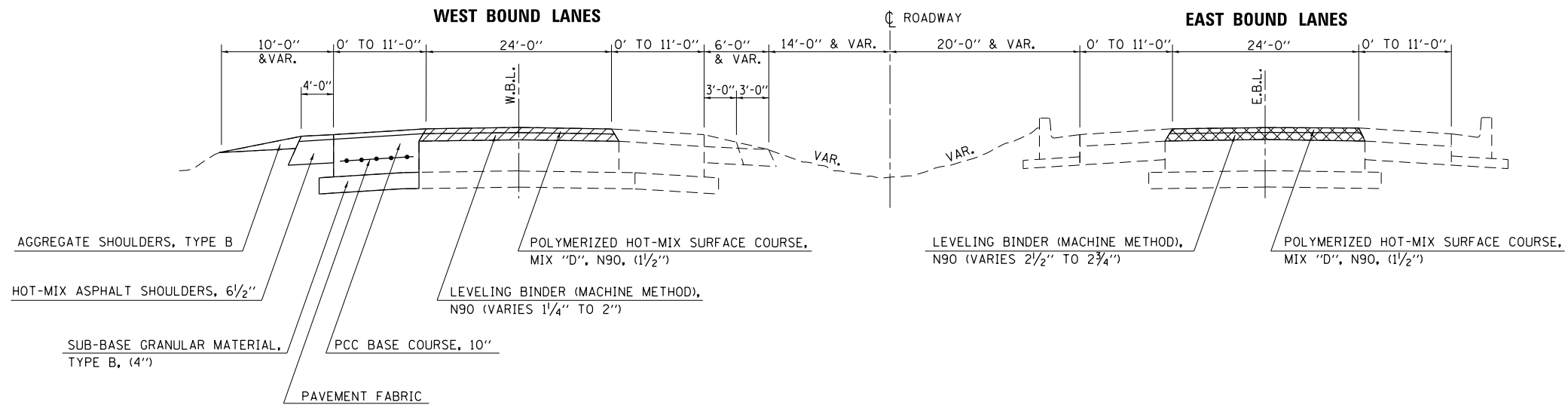
U.S. ROUTE 36
STATION 185+62 TO STATION 194+63



NOTE: NOT DRAWN TO SCALE

PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 36
STATION 185+62 TO STATION 194+63



NOTE: NOT DRAWN TO SCALE

- PCC OR HMA SURFACE REMOVAL (VARIES 2 3/4" TO 3 1/2")
- PCC OR HMA SURFACE REMOVAL (VARIES 4" TO 4 1/4")

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	9
CONTRACT NO. 74539				

ILLINOIS FED. AID PROJECT

RESURFACING SCHEDULE			LENGTH	PAVEMENT WIDTH	AREA	HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N90	LEVELING BINDER (MACHINE METHOD), N90	AGGREGATE SHOULDERS, TYPE B	HMA SHOULDERS, 6 1/2"	TEMPORARY RAMP
STATION	TO	STATION	FEET	FEET	SO YD	SO YD	SO YD	GALLON	TON	TON	TON	TON	SO YD	SO YD
EASTBOUND														
185+62.00	TO	188+78.00	316.0	24.0	842.7		842.7	42.1	1.7	70.8	118.0			15.0
188+78.00	TO	190+69.00	191.0	Variable	1400.7 *	810.3	509.3	70.0	2.8	117.7	215.7			28.3
WESTBOUND														
188+39.00	TO	190+83.00	244.0	Variable	1756.2 *	1087.2	581.3	87.8	3.5	147.5	196.7			33.3
190+83.00	TO	194+63.00	380.0	Variable	1551.2 **	380.9	645.3	77.6	3.1	130.3	97.7	54.1	168.9	15.0
TOTALS			1,131		5,551	2,278	2,579	278	11.1	466	628	54	168.9	92

* AREA INCLUDES INTERSECTION AND COUNTRY CLUB ROAD. SEE PLAN SHEET FOR LIMITS.

** AREA INCLUDES NEW TURN LANE. SEE PLAN SHEET FOR LIMITS.

PATCHING SCHEDULE	CLASS D PATCHES, TYPE I, 14 INCH	CLASS D PATCHES, TYPE II, 14 INCH	CLASS D PATCHES, TYPE III, 14 INCH	CLASS D PATCHES, TYPE IV, 14 INCH	PARTIAL DEPTH REMOVAL (VARIABLE DEPTH)	PARTIAL DEPTH PATCHING
STATION TO STATION	SO YD	SO YD	SO YD	SO YD	SO YD	TON
EAST BOUND LANES	9	29	113	0	25	5
WESTBOUND LANES	10	71	46	153	25	5
PROJECT TOTALS	19	100	159	153	50	10

REMOVAL SCHEDULE

COMBINATION CURB AND GUTTER REMOVAL

LOCATION			LENGTH FOOT	
189+88.00	TO	190+83.00	NE QUAD AT EXTENDED TURN LANE	95.2
188+37.00	TO	188+78.00	WEST MEDIAN	87.1
190+08.00	TO	190+55.00	EAST MEDIAN	92.4
188+65.00	TO	189+07.00	NORTH MEDIAN	97.6
189+90.00	TO	190+25.00	SOUTH MEDIAN	122.5
189+35.00	TO	189+50.00	SIDEWALK AT SW AND NW QUADRANT	32.0
			Total =	526.8

PAVED SHOULDER REMOVAL

LOCATION			AREA SQ YD	
190+83.00	TO	194+63.00	NE QUAD AT EXTENDED TURN LANE	112.1
			Total =	112.1

SIDEWALK REMOVAL

LOCATION			AREA SQ YD
SOUTHWEST QUADRANT FOR NEW CROSSWALK			110.0

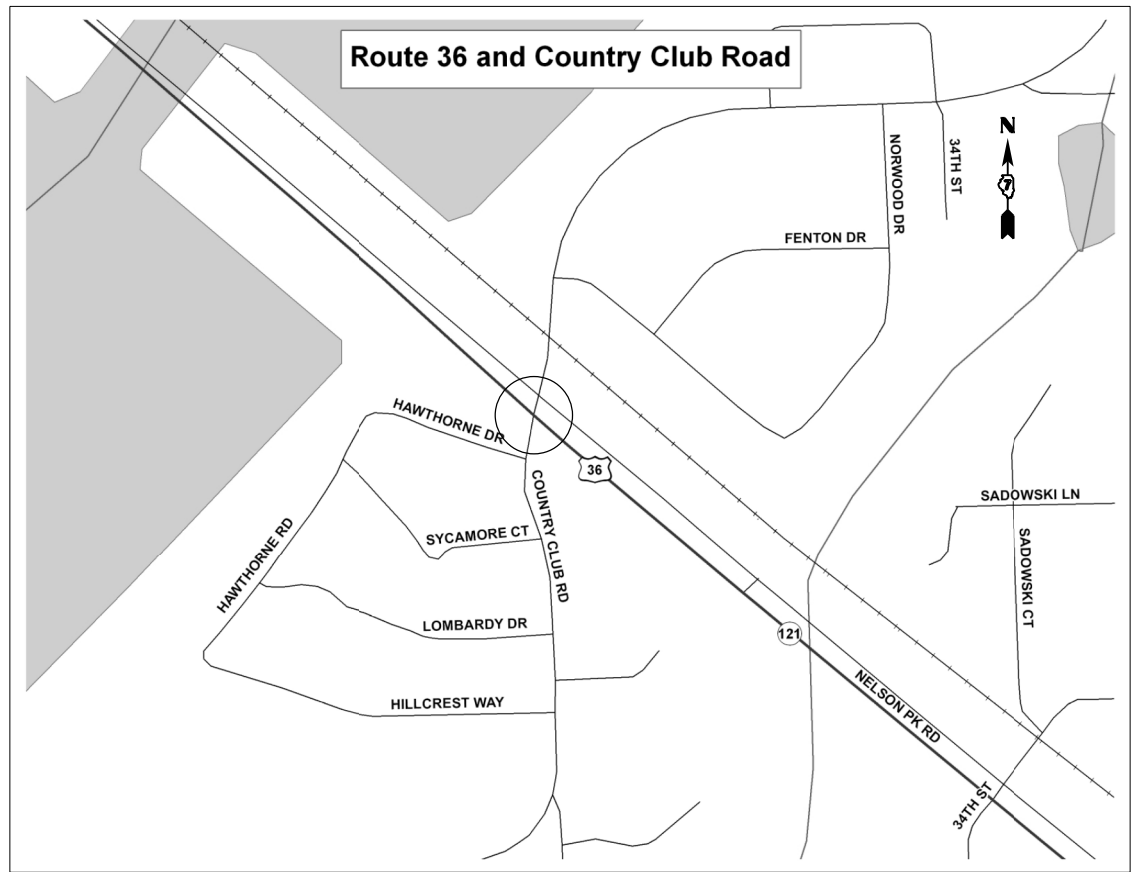
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	12
CONTRACT NO. 74539			ILLINOIS FED. AID PROJECT	



NOTE: NOT TO SCALE

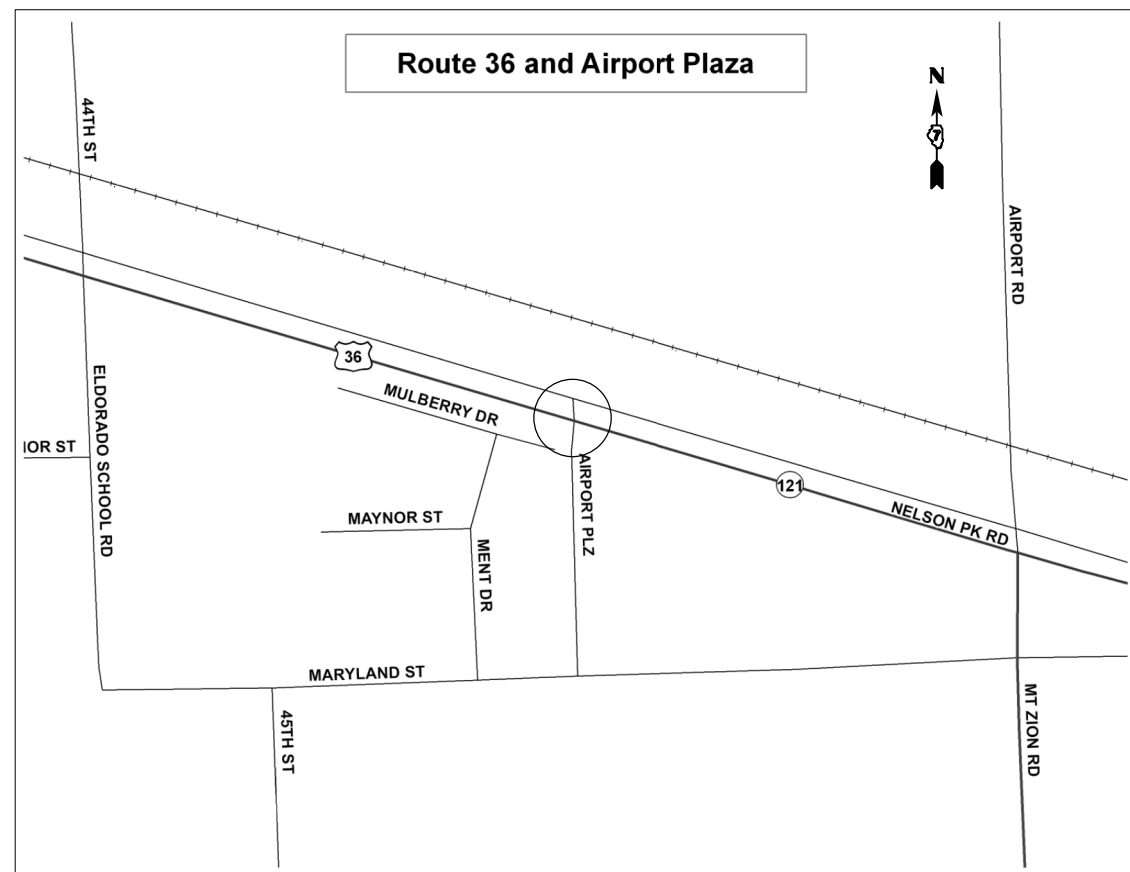
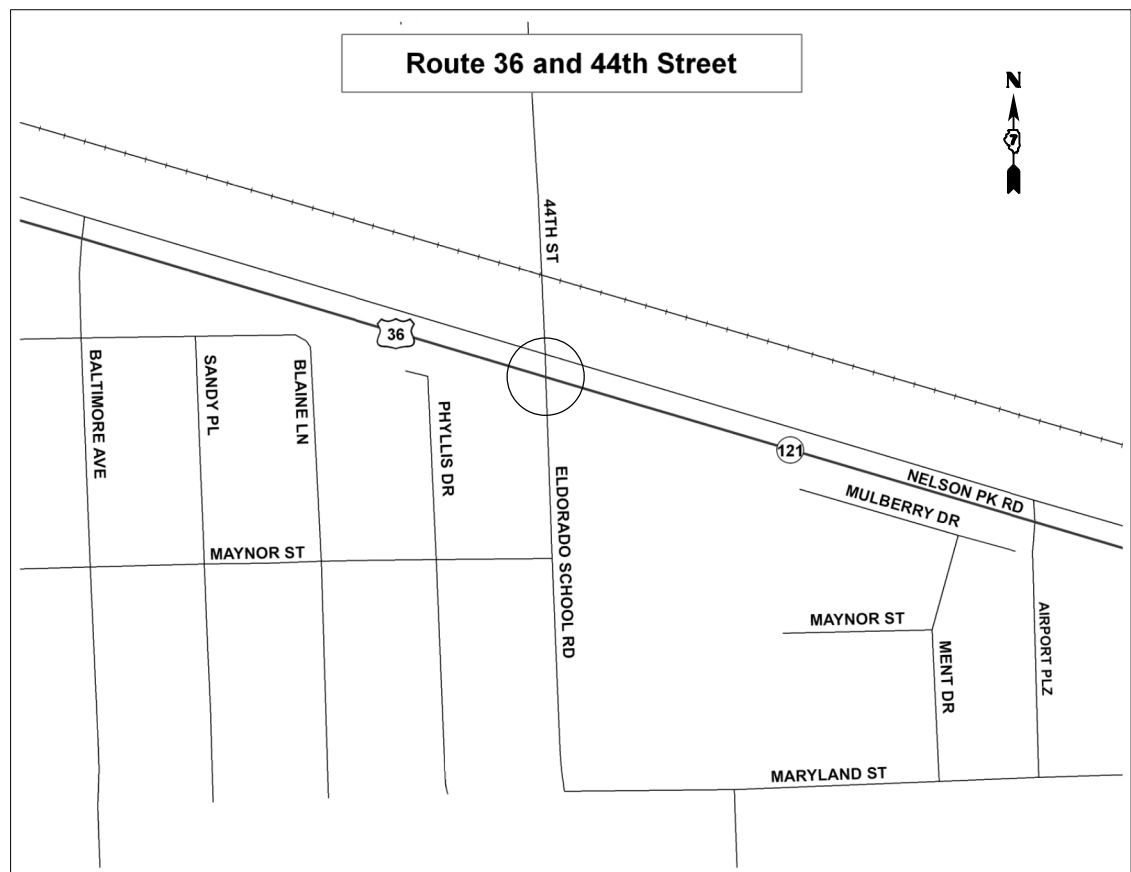
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PLOT DATE = 3/27/2012		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION LOCATION MAPS

SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	Macon	39	13
CONTRACT NO. 74539			ILLINOIS FED. AID PROJECT	



NOTE: NOT TO SCALE

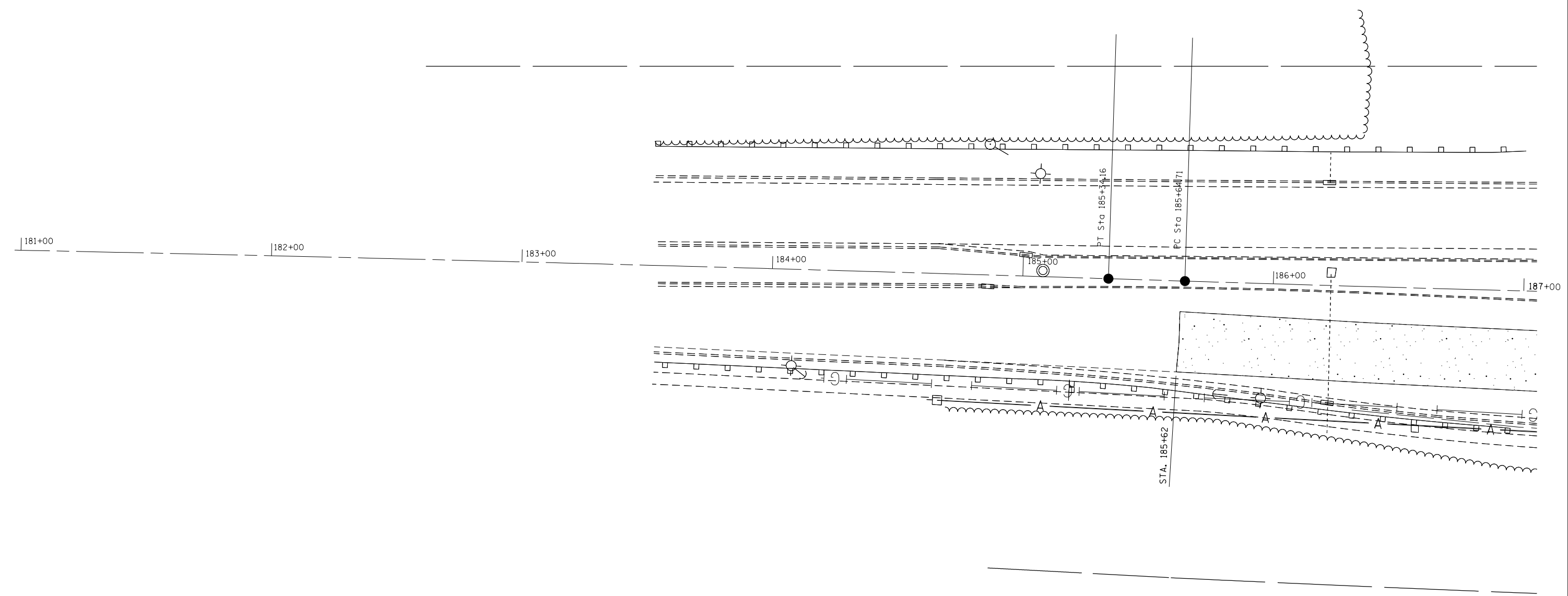
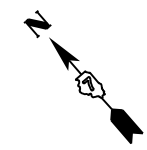
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION






INTERSECTION LOCATION MAPS

SCALE: N/A SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	Macon	39	14
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



LEGEND

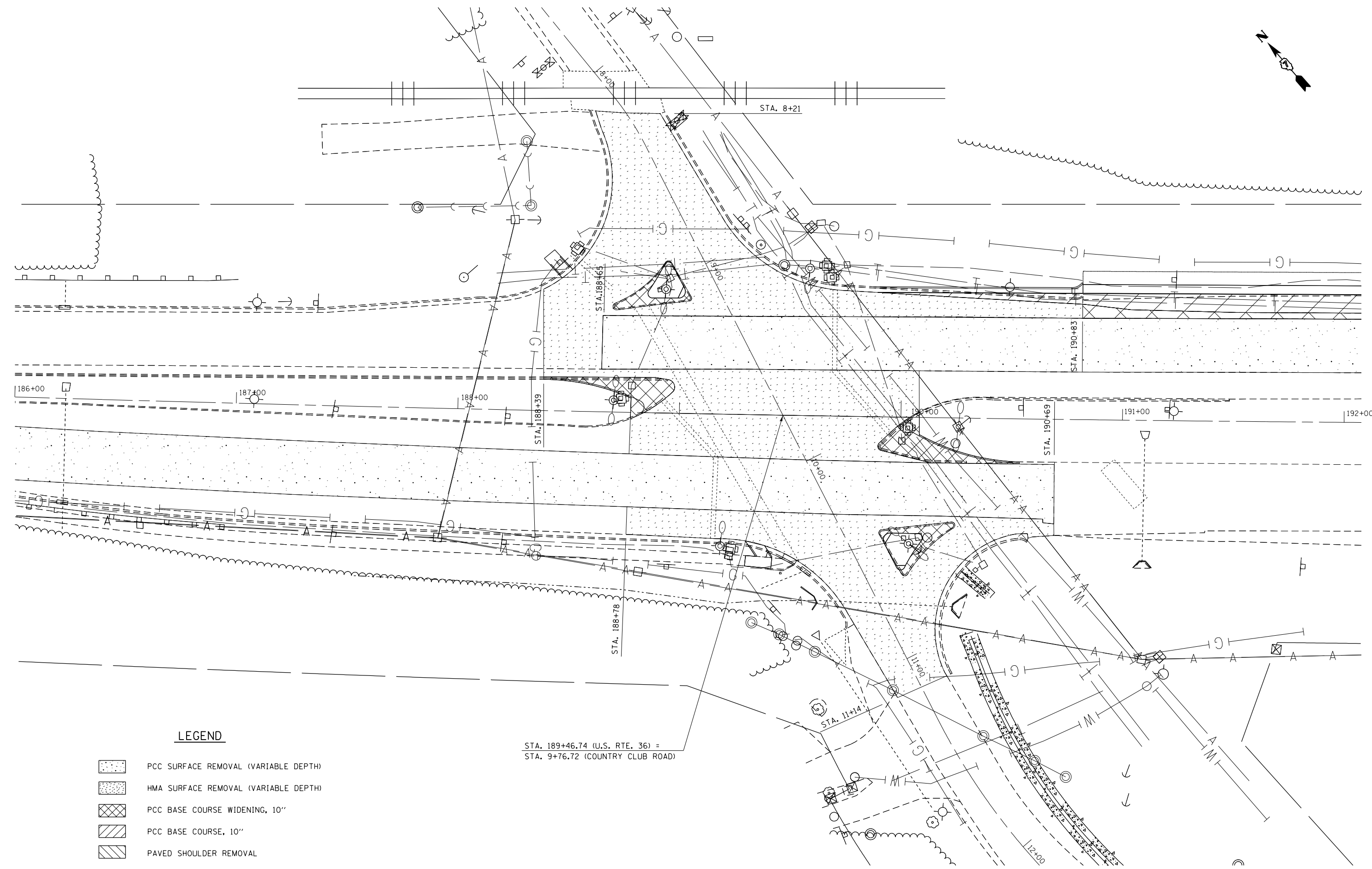
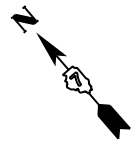
-  PCC SURFACE REMOVAL (VARIABLE DEPTH)
-  HMA SURFACE REMOVAL (VARIABLE DEPTH)
-  PCC BASE COURSE WIDENING, 10"
-  PCC BASE COURSE, 10"
-  PAVED SHOULDER REMOVAL

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN
SCALE: 20 SHEET 1 OF 3 SHEETS STA. 181+00 TO STA. 187+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	15
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



LEGEND

- PCC SURFACE REMOVAL (VARIABLE DEPTH)
- HMA SURFACE REMOVAL (VARIABLE DEPTH)
- PCC BASE COURSE WIDENING, 10"
- PCC BASE COURSE, 10"
- PAVED SHOULDER REMOVAL

STA. 189+46.74 (U.S. RTE. 36) =
STA. 9+76.72 (COUNTRY CLUB ROAD)

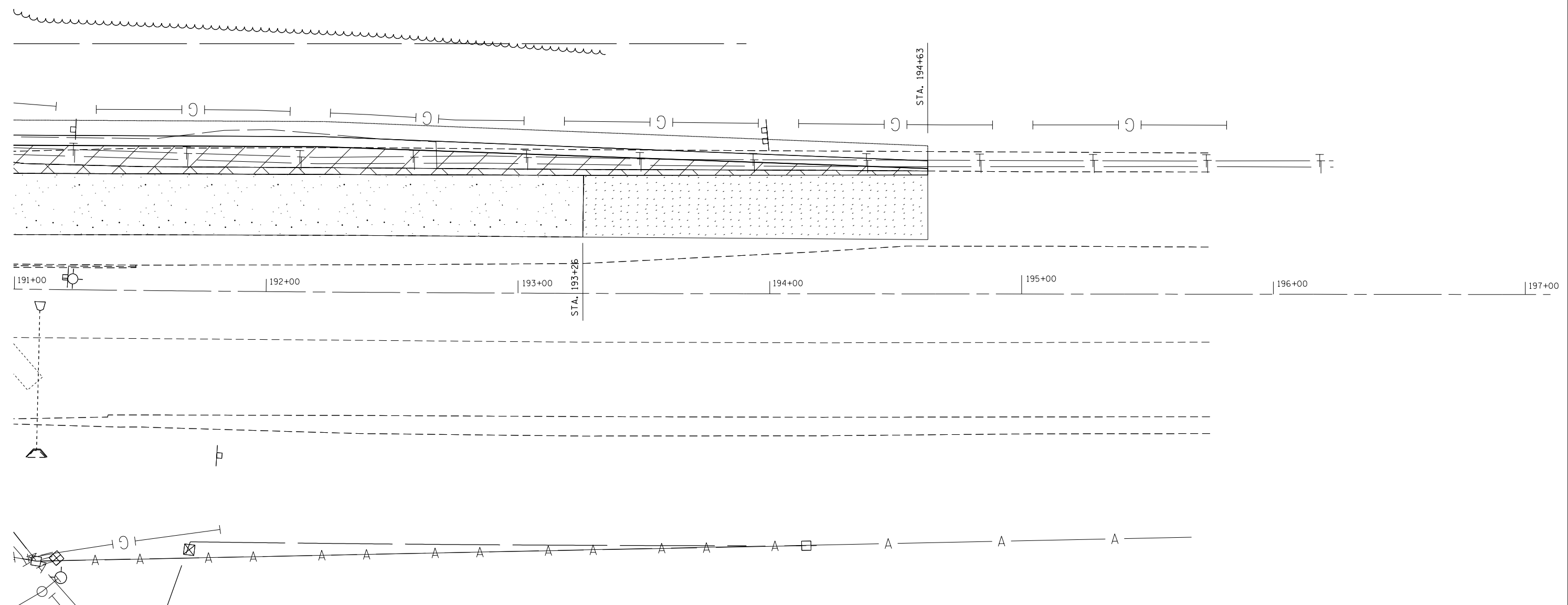
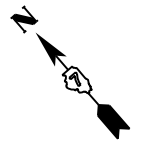
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 20	SHEET 2 OF 3 SHEETS	STA. 186+00	TO STA. 192+00
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PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2N)	MACON	39	16
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



LEGEND

- PCC SURFACE REMOVAL (VARIABLE DEPTH)
- HMA SURFACE REMOVAL (VARIABLE DEPTH)
- PCC BASE COURSE WIDENING, 10"
- PCC BASE COURSE, 10"
- PAVED SHOULDER REMOVAL

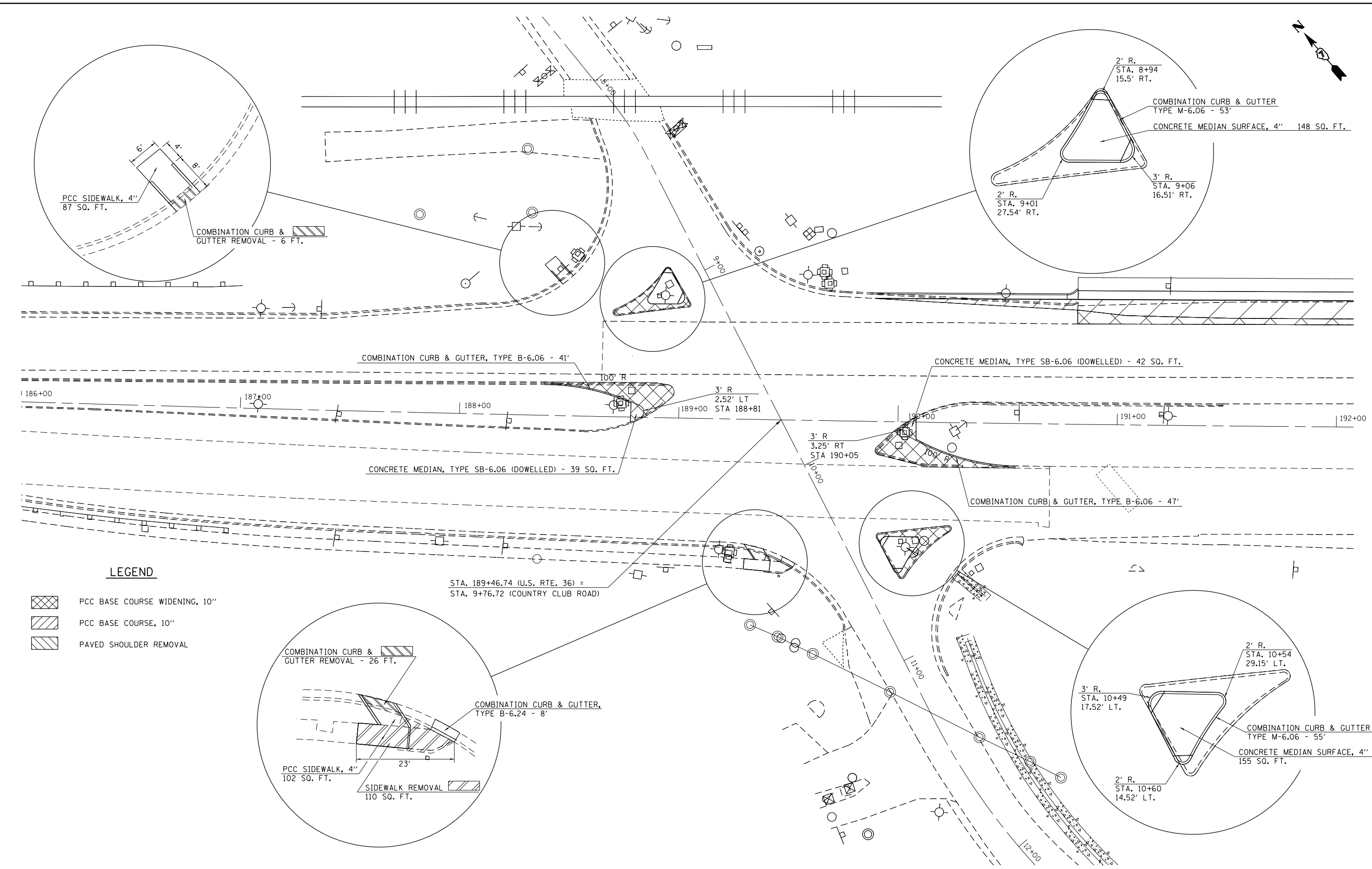
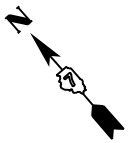
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 20 SHEET 3 OF 3 SHEETS STA. 191+00 TO STA. 197+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	17
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



LEGEND

- PCC BASE COURSE WIDENING, 10"
- PCC BASE COURSE, 10"
- PAVED SHOULDER REMOVAL

STA. 189+46.74 (U.S. RTE. 36) =
STA. 9+76.72 (COUNTRY CLUB ROAD)

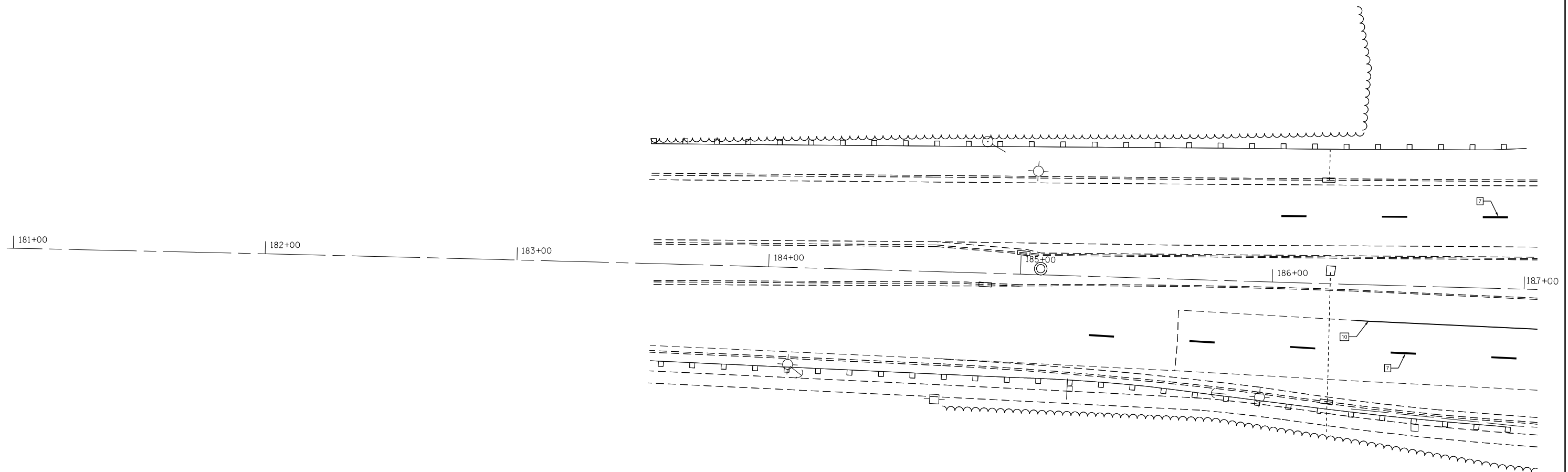
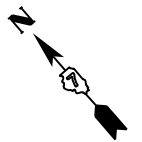
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION PLAN DETAIL

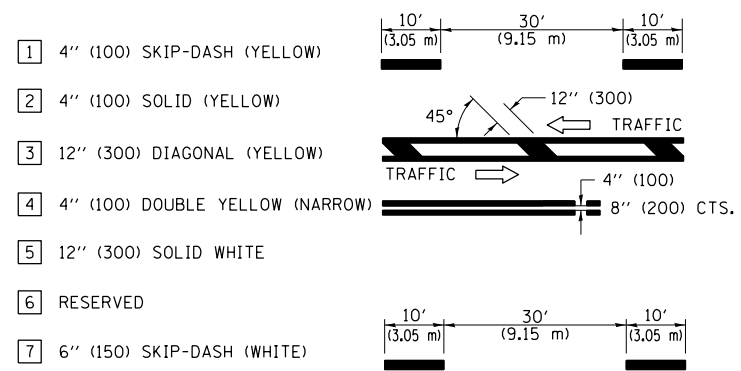
SCALE: 20 SHEET 1 OF 1 SHEETS STA. 186+00 TO STA. 192+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	18
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

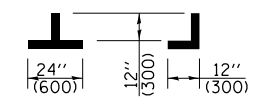
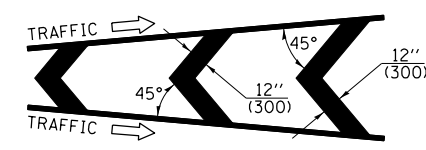
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PAVEMENT MARKING LEGEND



- 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



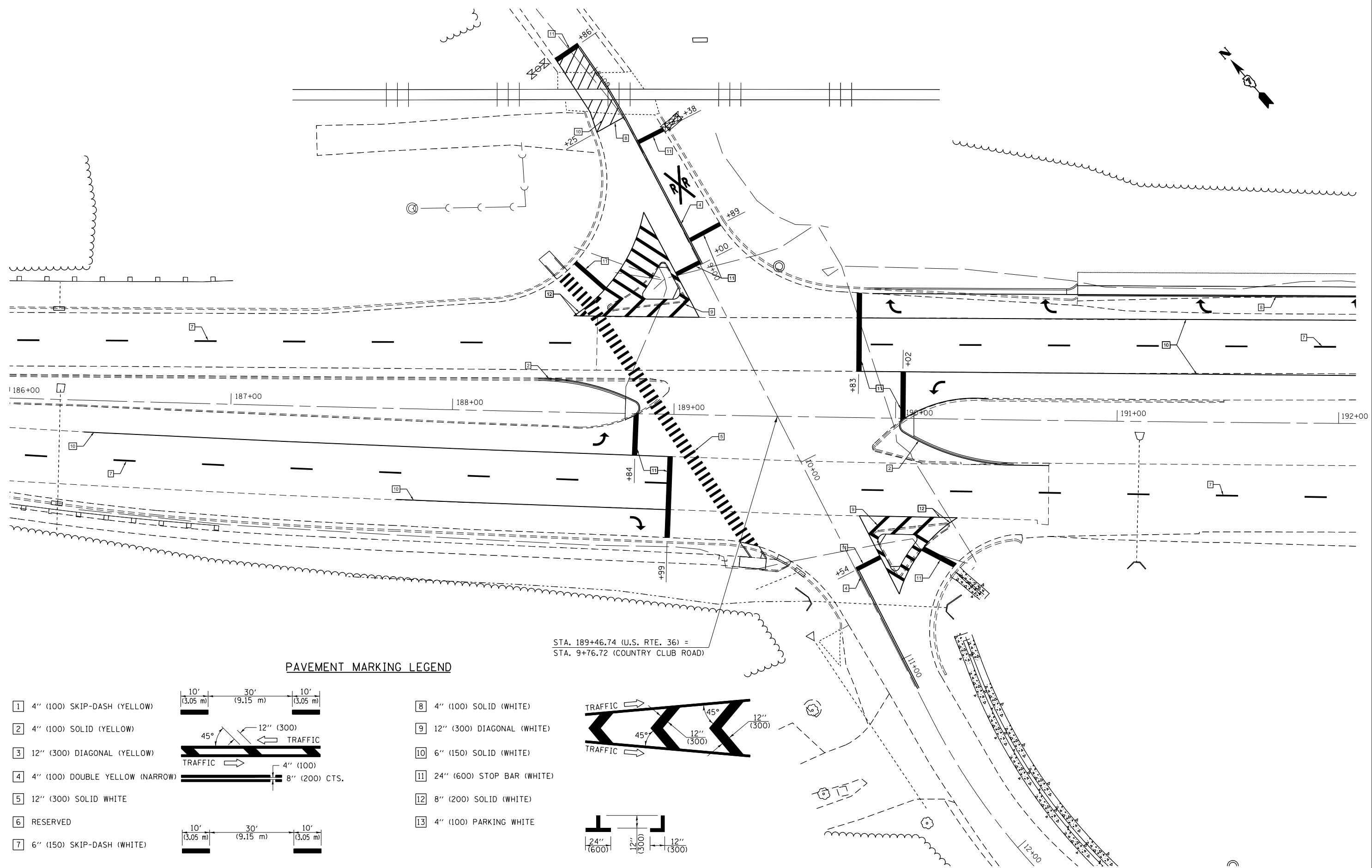
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN DETAIL

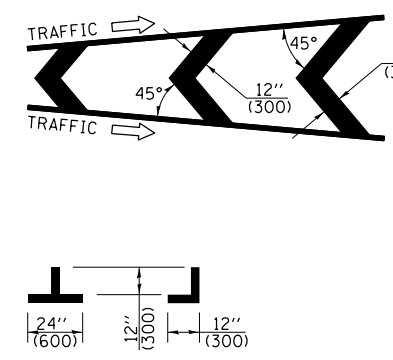
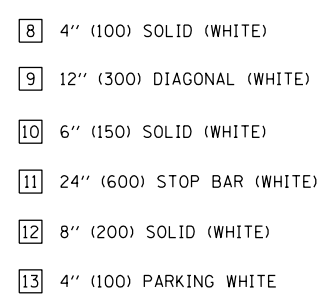
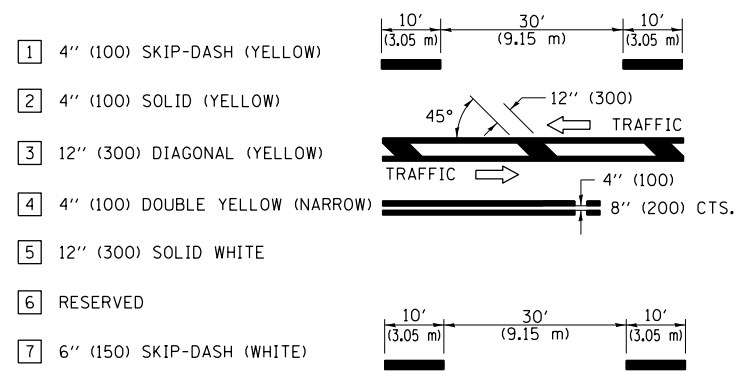
SCALE: 20 SHEET 1 OF 3 SHEETS STA. 181+00 TO STA. 187+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	19
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



STA. 189+46.74 (U.S. RTE. 36) =
 STA. 9+76.72 (COUNTRY CLUB ROAD)

PAVEMENT MARKING LEGEND



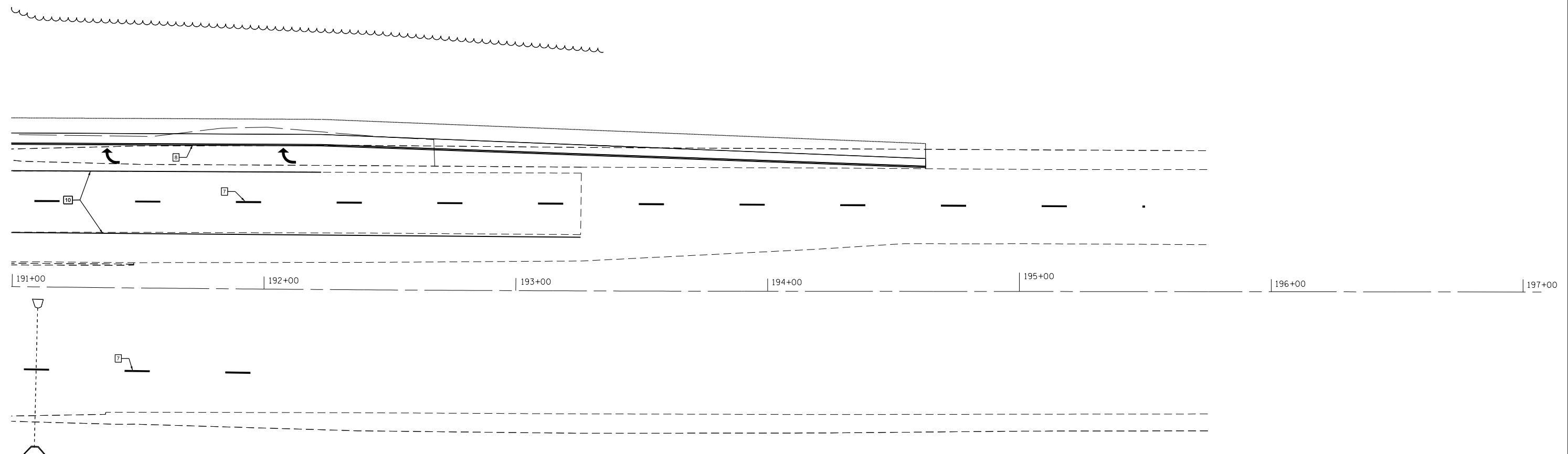
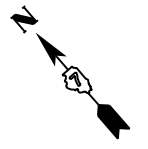
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN DETAIL

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 186+00 TO STA. 192+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2N)	MACON	39	20
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | |
|--|--------------|---|------|
| <p>1 4" (100) SKIP-DASH (YELLOW)</p> <p>2 4" (100) SOLID (YELLOW)</p> <p>3 12" (300) DIAGONAL (YELLOW)</p> <p>4 4" (100) DOUBLE YELLOW (NARROW)</p> <p>5 12" (300) SOLID WHITE</p> <p>6 RESERVED</p> <p>7 6" (150) SKIP-DASH (WHITE)</p> |

 | <p>8 4" (100) SOLID (WHITE)</p> <p>9 12" (300) DIAGONAL (WHITE)</p> <p>10 6" (150) SOLID (WHITE)</p> <p>11 24" (600) STOP BAR (WHITE)</p> <p>12 8" (200) SOLID (WHITE)</p> <p>13 4" (100) PARKING WHITE</p> |
 |
|--|--------------|---|------|

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

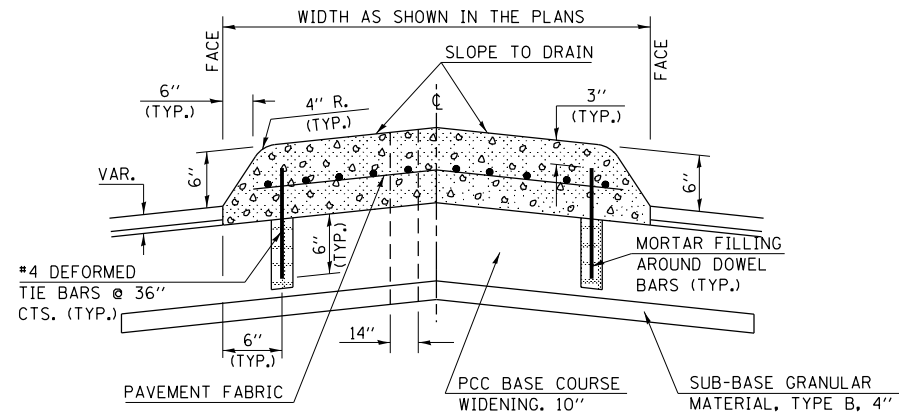
PAVEMENT MARKING PLAN DETAIL			
SCALE: 20	SHEET 3	OF 3 SHEETS	STA. 191+00 TO STA. 197+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	21
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

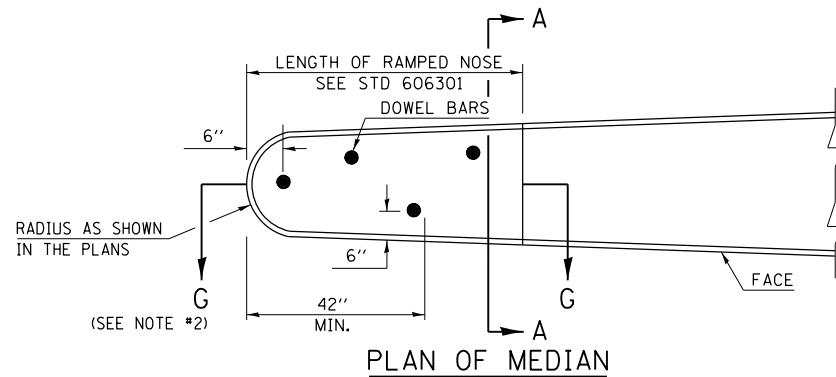
DETAIL OF CONCRETE MEDIAN, TYPE SB-6.06 (DOWELED)

GENERAL NOTES

1. THE GENERAL NOTES FOR STANDARD 606301 SHALL APPLY.
2. SECTION G-G SHALL BE THE SAME AS SHOWN ON STANDARD 606301.
3. DOWEL BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SO FOOT FOR CONCRETE MEDIAN, TYPE SM-6 (DOWELED); INCLUDING THE COST OF FURNISHING AND INSTALLING THE DOWEL BARS, MORTAR FILLING, AND PAVEMENT FABRIC. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



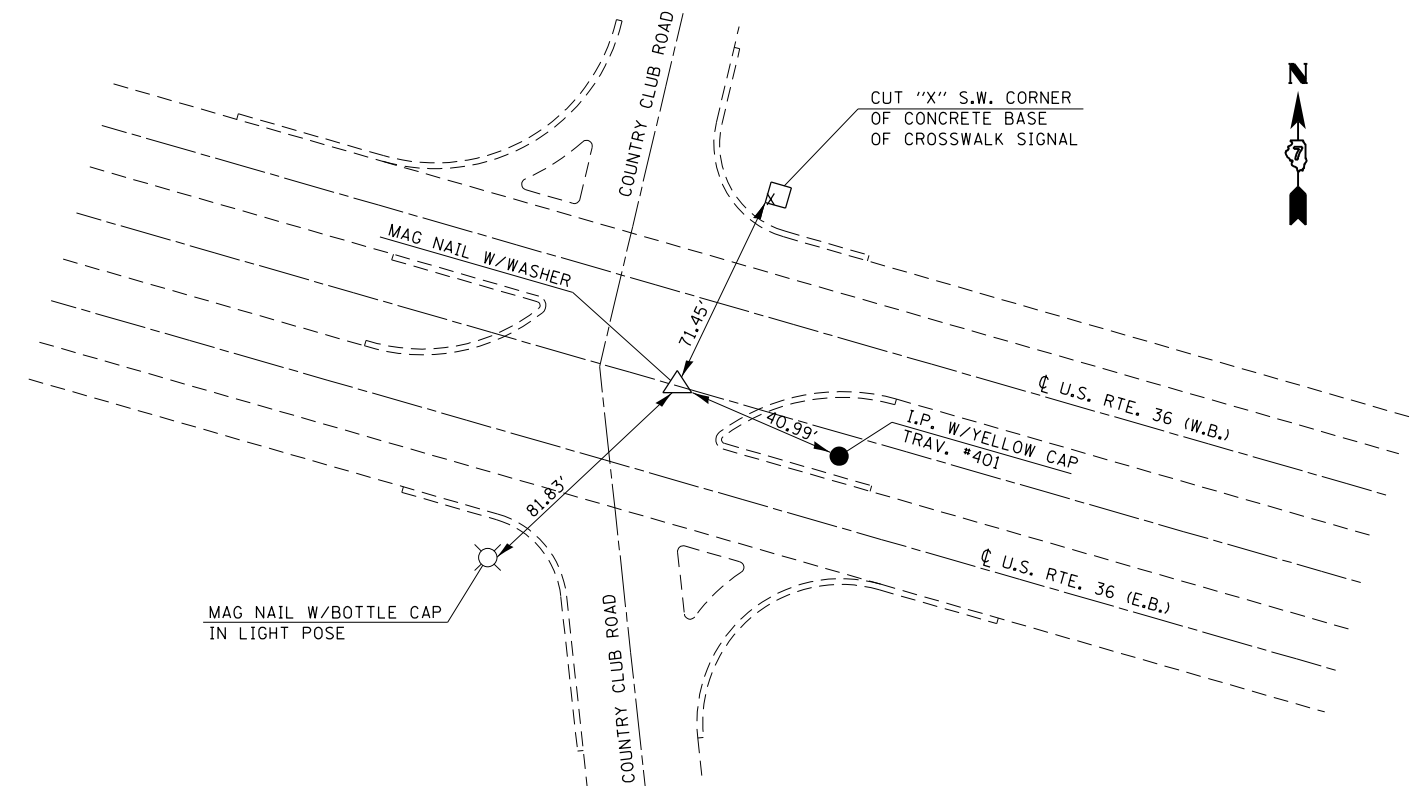
SECTION A-A



PLAN OF MEDIAN

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

P. I. STA. 189+77.79
(@ U.S. RTE. 36)



FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF CONCRETE MEDIAN, TYPE SB-6.06 (DOWELED)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\dot\stefemk\d0273662\074539-sht-details.dgn	PLOT SCALE = 100.0000' / 1in.	DRAWN -	REVISED -					320	(137Z,139-X-2N)	MACON	39	22
	PLOT DATE = 3/27/2012	CHECKED -	REVISED -		SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 74539				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF FULL SETS OF TRAFFIC SIGNALS AT THE INTERSECTION OF US 36/ILL121 & COUNTRY CLUB ROAD AND TRAFFIC SIGNAL MODERNIZATION AT 4 SEPARATE INTERSECTIONS ON US 36 (36TH STREET, BALTIMORE AVENUE, 44TH STREET AND AIRPORT PLAZA) ALL IN THE CITY OF DECATUR, MACON COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNALS 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.

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 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.

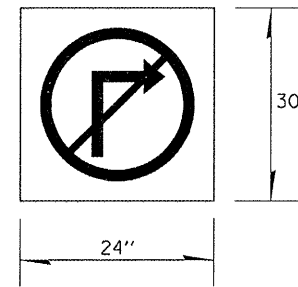
ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

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.

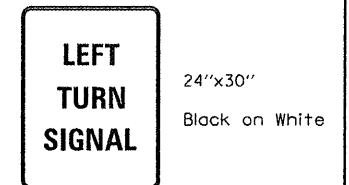
TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

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.



ILLUMINATED SIGN, LED
LED BLANK OUT, RAILROAD PRE-EMPTIVE ACTIVATION

COUNTRY CLUB ROAD LOCATIONS:
(SEE * ON PLANS)
SIGNAL POST STA 188+74 3' LT
SIGNAL POST STA 189+01 61' RT
SIGNAL POST STA 189+82 62' LT
SIGNAL POST STA 190+16 3' RT



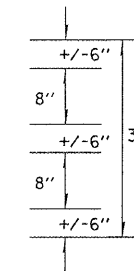
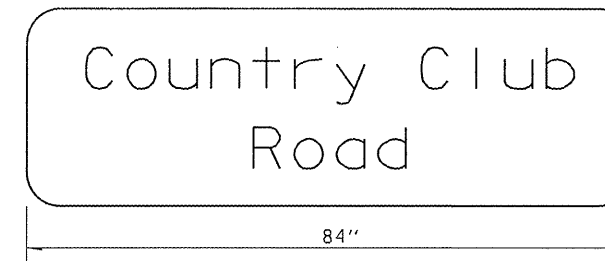
36TH STREET LOCATIONS:
(SEE * ON PLANS)
EX. SIGNAL POST IN MEDIAN WB
EX. SIGNAL POST SW QUADRANT

BALTIMORE AVENUE LOCATIONS:
(SEE * ON PLANS)
SIGNAL POST STA 99+26 1' RT
EX. SIGNAL POST SW QUADRANT

44TH STREET LOCATIONS:
(SEE * ON PLANS)
SIGNAL POST STA 99+23 12' LT
EX. SIGNAL POST SW QUADRANT
EX. SIGNAL POST NE QUADRANT
SIGNAL POST STA 100+72 12' RT

SIGN PANEL
DETAILS

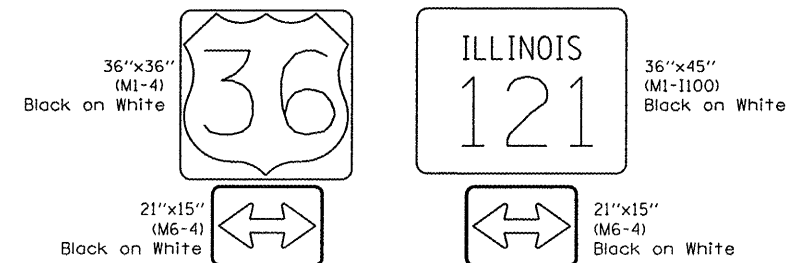
COUNTRY CLUB ROAD LOCATIONS:
(SEE * ON PLANS)
SIGNAL POST STA 266+31 0' RT
EX. SIGNAL POST SW QUADRANT



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 SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
- UPPER/LOWER CASE LETTERS, HIGHWAY GOTHIC 8D.

SIGN PANEL DETAILS

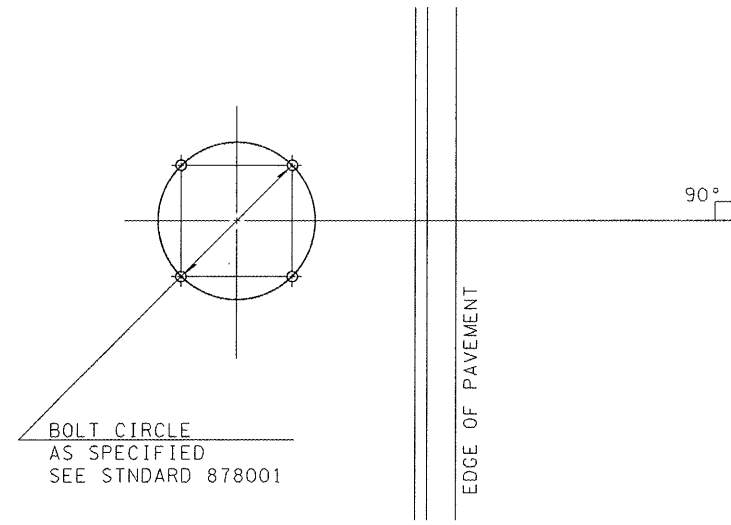


TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 10+70 24' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 8+92 48' LT)

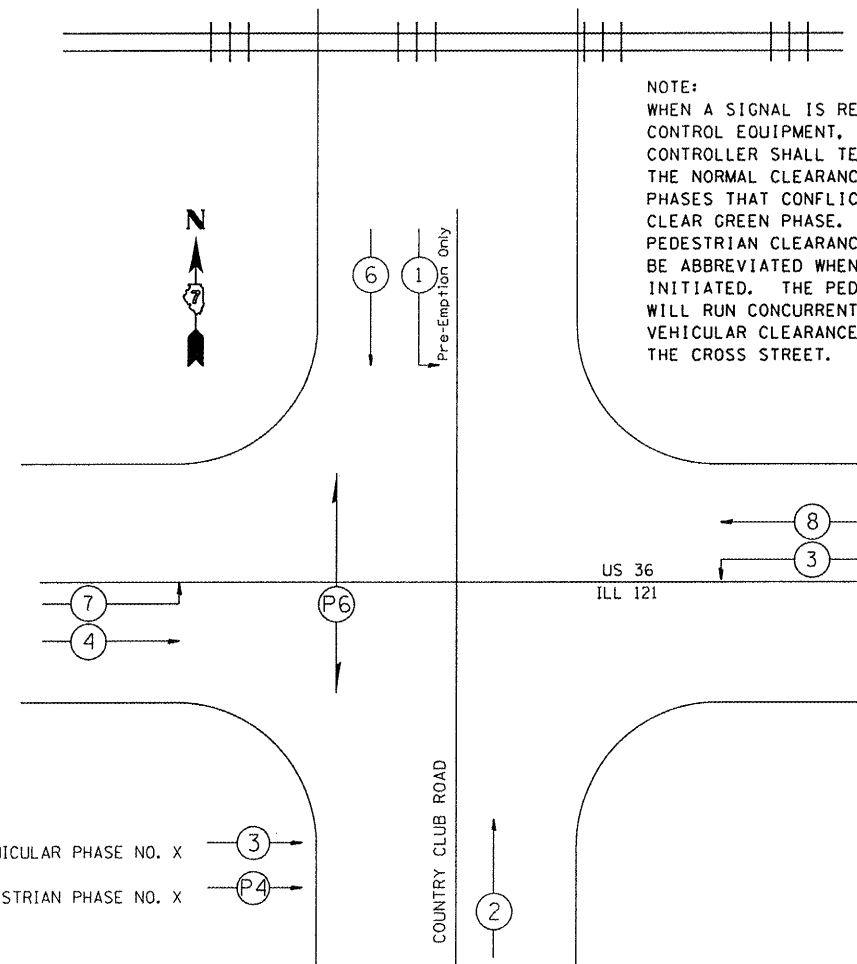
SIGN PANEL DETAILS

FILE NAME =	USER NAME = mcellellan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL GENERAL NOTES & DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\mcellellan\0273662	774539-shr-ts-1.dgn	DRAWN -	REVISED -			320	(137Z,139-X-2)N	MACON	39	23	
	PLOT SCALE = 40.0000 ' / 1"	CHECKED -	REVISED -			CONTRACT NO. 74539					
	PLOT DATE = 4/12/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: N/A	SHEET 1 OF 12 SHEETS	STA.	TO STA.				

US 36 & COUNTRY CLUB ROAD- BILL OF MATERIALS



DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN



PHASE DESIGNATION DIAGRAM

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	46.75
SIGN PANEL-TYPE 2	SQ FT	64.5
SERVICE INSTALLATION, TYPE A	EACH	1.0
UNDERGROUND CONDUIT, PVC, 3/4 " DIA.	FOOT	85.0
UNDERGROUND CONDUIT, PVC, 1 1/2 " DIA.	FOOT	771.0
UNDERGROUND CONDUIT, PVC 2" DIA.	FOOT	36.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	110.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	492.0
HANDHOLE	EACH	10.0
DOUBLE HANDHOLE	EACH	1.0
GULFBOX JUNCTION	EACH	4.0
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.0
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	902.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4574.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	656.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	4349.0
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 3 PAIR	FOOT	160.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	20.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	915.0
TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	1.0
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	6.0
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	3.0
STEEL MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 38 FT	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	30.0
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	12.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	3.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	23.0
INDUCTIVE LOOP DETECTOR	EACH	18.0
DETECTOR LOOP, TYPE 1	FOOT	1874.0
PEDESTRIAN PUSH-BUTTON	EACH	2.0
ILLUMUNATED SIGN, LED	EACH	2.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING HANDHOLE	EACH	8.0
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8.0

FILE NAME =	USER NAME = mcolelleno	DESIGNED -	REVISED -
c:\pwork\pwork\mcolelleno\0273662\0774539-shr-ts-1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/12/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL
BILL OF MATERIALS AND DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(1372.139-X-2)N	MACON	39	24
SCALE: N/A			CONTRACT NO. 74539	
SHEET 2 OF 12 SHEETS STA.		ILLINOIS FED. AID PROJECT		

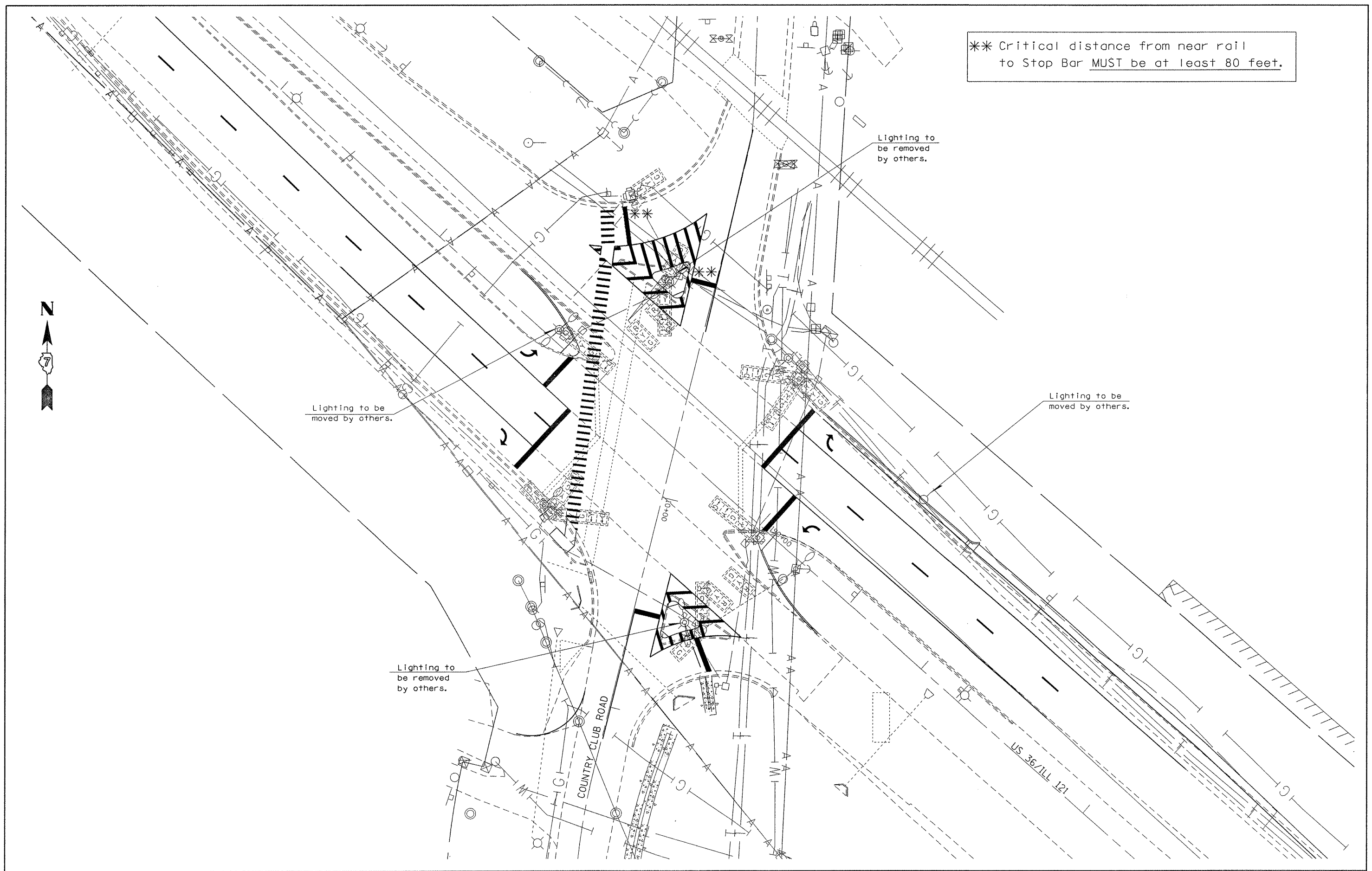
** Critical distance from near rail to Stop Bar MUST be at least 80 feet.

Lighting to be removed by others.

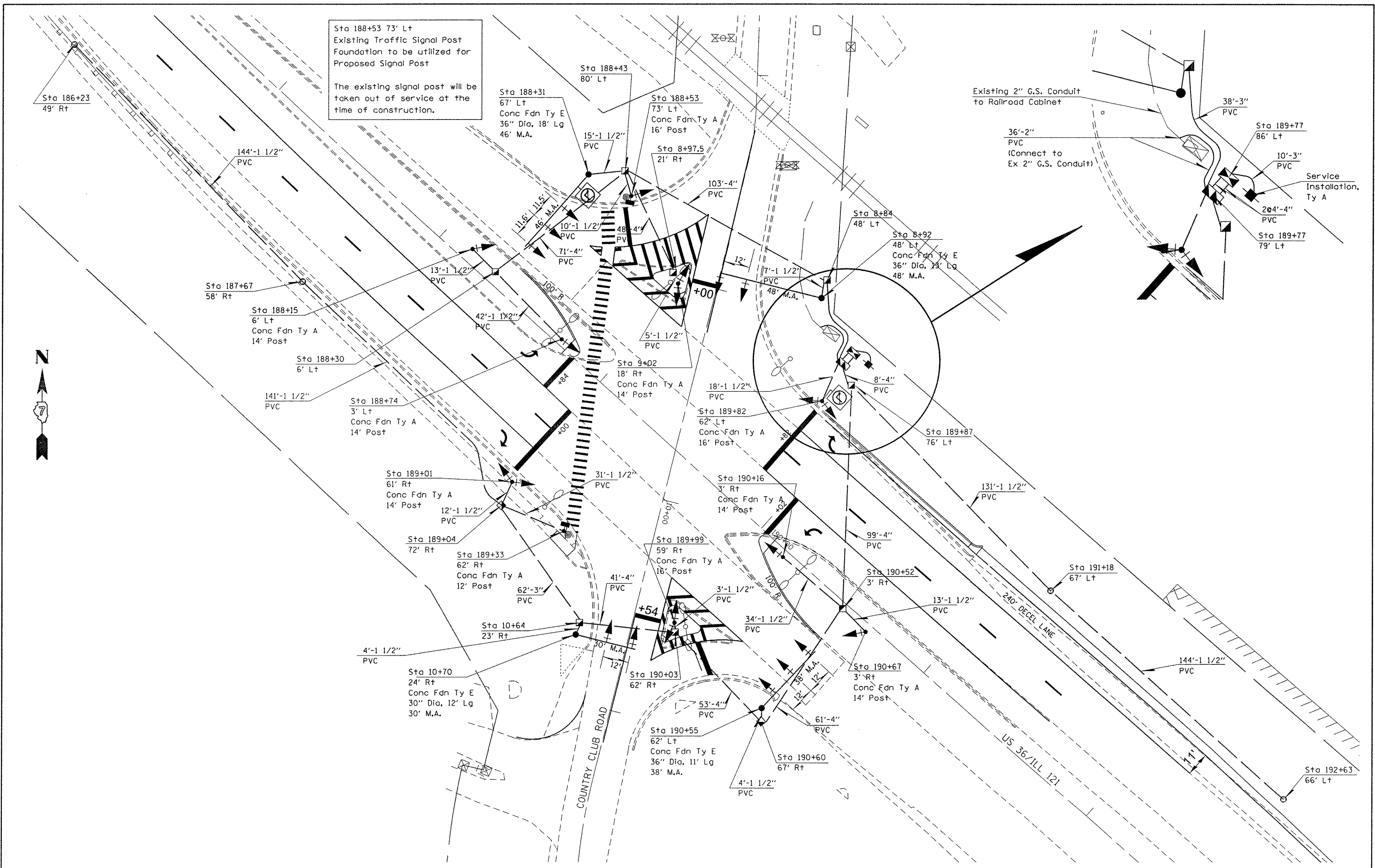
Lighting to be moved by others.

Lighting to be moved by others.

Lighting to be removed by others.



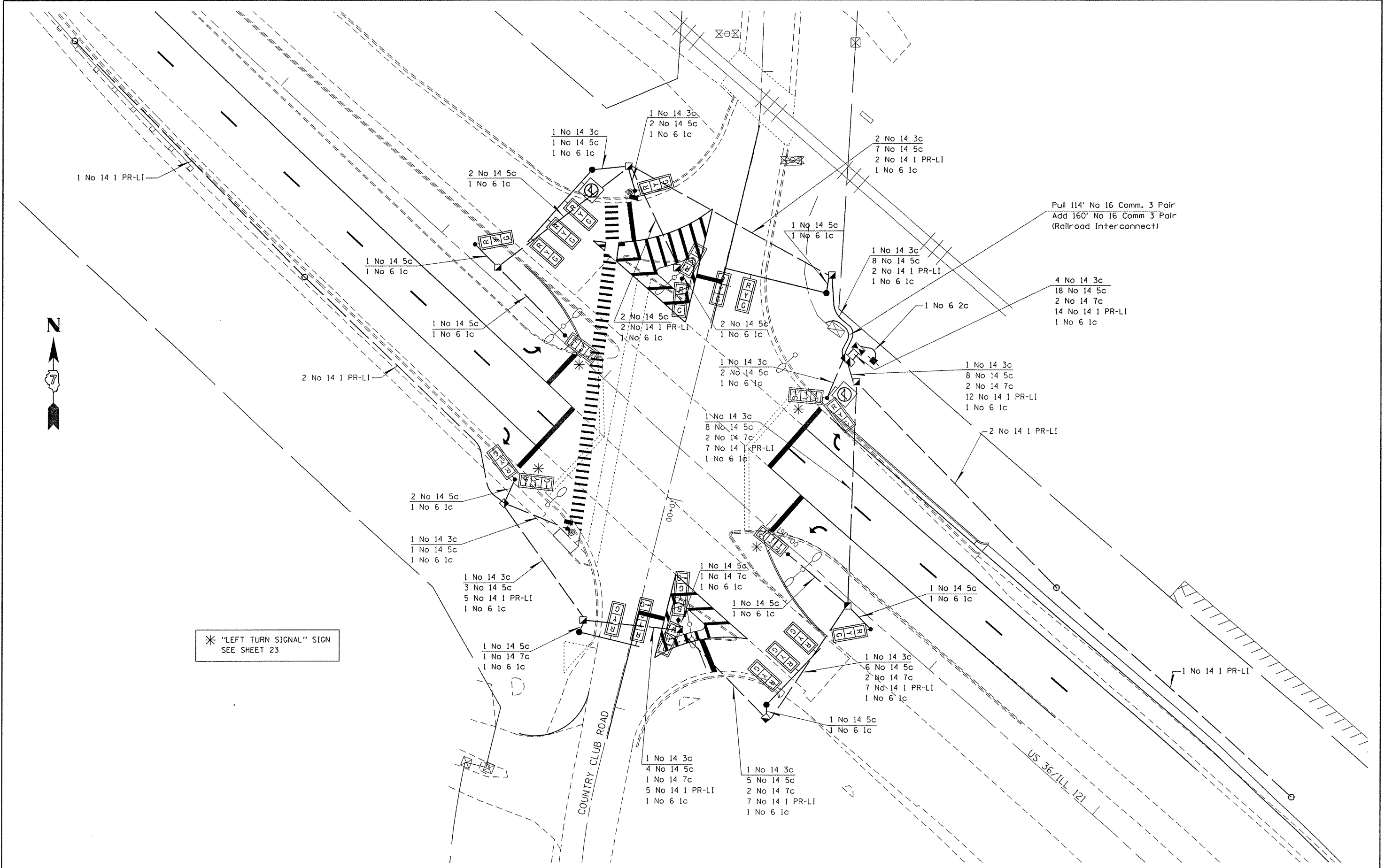
FILE NAME = c:\pw\work\p\ridot\mcclellan\0273662\0774539-shr-ts-1.dgn	USER NAME = mcclellan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING UTILITY LAYOUT INTERSECTION US 36 & COUNTRY CLUB ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					320	(137Z,139-X-2)N	MACON	39	25	
	PLOT DATE = 4/13/2012	DATE -	REVISED -		SCALE: 20	SHEET 3	OF 12 SHEETS	STA. TO STA.	CONTRACT NO. 74539				
								ILLINOIS FED. AID PROJECT					



Sta 188+53 73' Lt
Existing Traffic Signal Post
Foundation to be utilized for
Proposed Signal Post

The existing signal post will be
taken out of service at the
time of construction.

FILE NAME =	USER NAME = mcllallan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNAL LAYOUT INTERSECTION US 36 & COUNTRY CLUB ROAD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\mcllallan\d0273662	774539-sht-ts-1.dgn	DRAWN -	REVISED -		320	(1372,139-X-2)N	MACON	39	26		
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE: 20 SHEET 4 OF 12 SHEETS STA. TO STA.		CONTRACT NO. 74539				
	PLOT DATE = 4/12/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



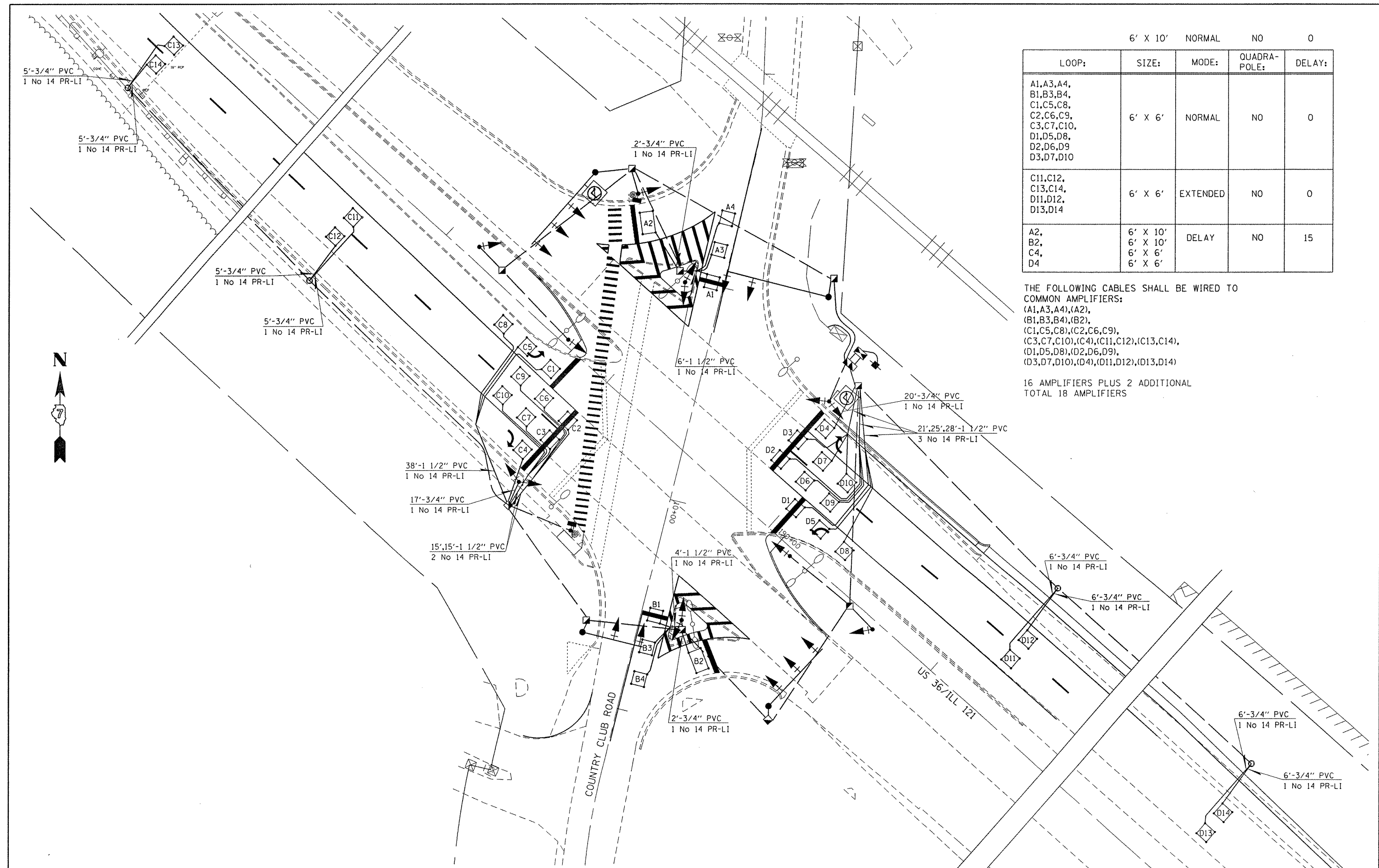
* "LEFT TURN SIGNAL" SIGN
SEE SHEET 23

FILE NAME =	USER NAME = macjellenla	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE LAYOUT INTERSECTION US 36 & COUNTRY CLUB RD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
c:\pwork\puidat\macjellenla\d0273662\0	774539-sht-ts-1.dgn	DRAWN -	REVISED -		SCALE: 20	SHEET 5	OF 12 SHEETS	STA. TO STA.	320	(1372,139-X-2IN)	MACON	39	27
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -										
	PLOT DATE = 4/12/2012	DATE -	REVISED -										
CONTRACT NO. 74539											ILLINOIS FED. AID PROJECT		

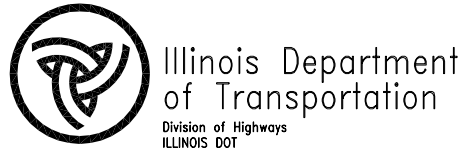
LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A4, B1,B3,B4, C1,C5,C8, C2,C6,C9, C3,C7,C10, D1,D5,D8, D2,D6,D9 D3,D7,D10	6' X 6'	NORMAL	NO	0
C11,C12, C13,C14, D11,D12, D13,D14	6' X 6'	EXTENDED	NO	0
A2, B2, C4, D4	6' X 10' 6' X 10' 6' X 6' 6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS:
 (A1,A3,A4),(A2),
 (B1,B3,B4),(B2),
 (C1,C5,C8),(C2,C6,C9),
 (C3,C7,C10),(C4),(C11,C12),(C13,C14),
 (D1,D5,D8),(D2,D6,D9),
 (D3,D7,D10),(D4),(D11,D12),(D13,D14)

16 AMPLIFIERS PLUS 2 ADDITIONAL
 TOTAL 18 AMPLIFIERS



FILE NAME =	USER NAME = mcelleanle	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP LAYOUT INTERSECTION US 36 & COUNTRY CLUB ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\puidot\mcelleanle\0273662\	774539-shr-ts-1.dgn	DRAWN -	REVISED -		SCALE: 20	SHEET 6	OF 12 SHEETS	STA.	320	(1372.139-X-2IN)	MACON	39	28
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -					TO STA.					
	PLOT DATE = 4/13/2012	DATE -	REVISED -										
											CONTRACT NO. 74539		
ILLINOIS FED. AID PROJECT													



SOIL BORING LOG

Date 3/1/12

ROUTE FAP 320 (US 36) DESCRIPTION Traffic Signal Mast Arm Foundations at Country Club Road LOGGED BY E. Sandschafer

SECTION (137Z,139-X-2)N LOCATION N 1/2, SEC. 19, TWP. 16 N, RNG. 3 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	N/A	D E P T H S	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	N/A	ft	D E P T H S	B L O W S	U C S Qu	M O I S T T
						Stream Bed Elev.	N/A	ft				
BORING NO.	1 NE					Groundwater Elev.:						
Station	190+19					▽ First Encounter	633.2	ft				
Offset	53.0ft Lt					▽ Upon Completion	630.7	ft				
Ground Surface Elev.	642.70	ft	(ft)	/6"	(tsf)	▽ After 192 Hrs. Caved at 8.0'	ft	(ft)	/6"	(tsf)	(%)	
2 1/8" asphalt on 9" concrete pavement.	641.80					Stiff, damp, dark brown, SILTY CLAY w/ many organics. (continued)			3	1.7	39	
Loose to medium, damp, brown, fill SAND. 15% passing #200 sieve.			4				620.70		5	B		
			5			Stiff, damp, gray, CLAY.			2			
			5						2	1.4	20	
			5						4	B		
			2			Stiff to medium, damp, gray, CLAY TILL.	618.20		2			
			-5						-25	3	1.6	19
	636.90		1		14				5	B		
Very stiff, damp, brown, CLAY LOAM.												
	635.20		4						2			
Brown, very sandy, SANDY LOAM.			9	2.4	13				3	0.9	17	
			6	B					5	B		
	633.20		2						3			
Medium, wet, brown, fine grained, SAND. 6% passing #200 sieve.		-10	5						-30	5	1.7	13
			6						7	B		
	611.70					Extent of exploration.						
	630.70		4									
Soft, wet, gray, SANDY LOAM.			8	0.4	24							
			6	S		Benchmark: TBM Pedestrian signal foundation in SE corner = 643.30' elevation, Sta 190+35, 68' Rt.						
	628.20		2									
Stiff, damp, gray, SILTY CLAY w/ many organics.		-15	3	1.9	44				-35			
			5	S								
	625.70		3									
Very stiff, moist, brown, SANDY PEAT, light weight.			7	2.8	90							
			12	B								
	623.20		3									
		-20										

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

Date 3/9/12

ROUTE FAP 320 (US 36) DESCRIPTION Traffic Signal Mast Arm Foundations at Country Club Road LOGGED BY E. Sandschafer

SECTION (137Z,139-X-2)N LOCATION N 1/2, SEC. 19, TWP. 16 N, RNG. 3 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	N/A	D E P T H S	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	N/A	ft	D E P T H S	B L O W S	U C S Qu	M O I S T T
						Stream Bed Elev.	N/A	ft				
BORING NO.	2 SE					Groundwater Elev.:						
Station	190+55					▽ First Encounter	634.1	ft				
Offset	60.0ft Rt					▽ Upon Completion	Caved at 7.5'	ft				
Ground Surface Elev.	643.60	ft	(ft)	/6"	(tsf)	▽ After _____ Hrs.	ft	(ft)	/6"	(tsf)	(%)	
3" topsoil.	643.30					Stiff, damp, dark brown, SILTY CLAY, w/ many organics. (continued)			4	1.5	60	
Brown, SILTY CLAY LOAM.									6	PP		
	641.50											
			8						2			
Medium, very moist, brown, fine grained, fluffy, SAND. 4% passing #200 sieve.			8		6				2	1.4	36	
			9						3	BS		
	639.10					Stiff, damp, brown, CLAY LOAM.	619.10					
			3						-25	2		
			4	1.5	13	Medium to stiff, damp, gray, CLAY.			2	0.8	25	
			5	B					4	B		
			3						2			
One 1" layer of wet, Sandy Loam at 7.5' depth.			5	2.7	12				4	1.5	14	
			8	S					5	B		
	634.10											
Loose to medium, wet, brown, fine grained, SAND. 8% passing #200 sieve.		-10	3						-30	2		
			4		14	Very stiff, damp, gray, CLAY TILL.	614.10		3	2.1	13	
			5						5	B		
	611.70					Extent of exploration.	612.60					
	630.70		4									
Soft, wet, gray, SANDY LOAM.			8	0.4	24							
			6	S		Benchmark: TBM Pedestrian signal foundation in SE corner = 643.30' elevation, Sta 190+35, 68' Rt.						
	628.20		2									
Stiff, damp, gray, SILTY CLAY w/ many organics.		-15	3	1.9	44				-35			
			5	S								
	625.70		3									
Very stiff, moist, brown, SANDY PEAT, light weight.			7	2.8	90							
			12	B								
	623.20		3									
		-20										

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)

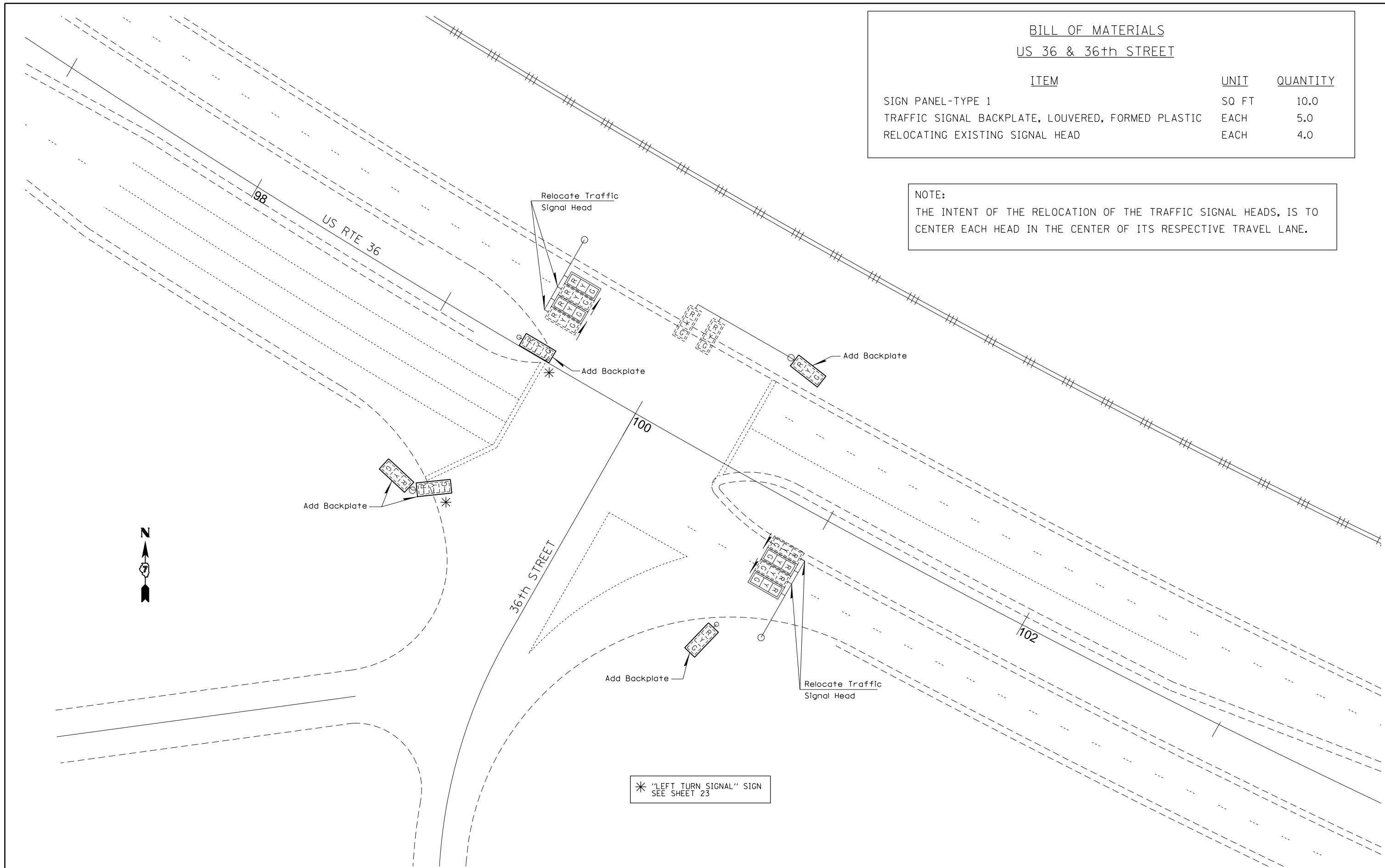
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Latitude W 88 deg 54.400 min Longitude N 39 deg 49.901 min Datum Job Number

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (088)\058-0000 SOIL 2012 MAST ARM FOUNDATIONS COUNTRY CLUB RD (MACON 263).GPI Data Template DREEMPLT.GDT Date Printed 12/03/20
Latitude W 88 deg 54.400 min Longitude N 39 deg 49.901 min Datum Job Number

BILL OF MATERIALS
US 36 & 36th STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	10.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5.0
RELOCATING EXISTING SIGNAL HEAD	EACH	4.0

NOTE:
THE INTENT OF THE RELOCATION OF THE TRAFFIC SIGNAL HEADS, IS TO CENTER EACH HEAD IN THE CENTER OF ITS RESPECTIVE TRAVEL LANE.



* "LEFT TURN SIGNAL" SIGN
SEE SHEET 23

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT DATE = 3/27/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

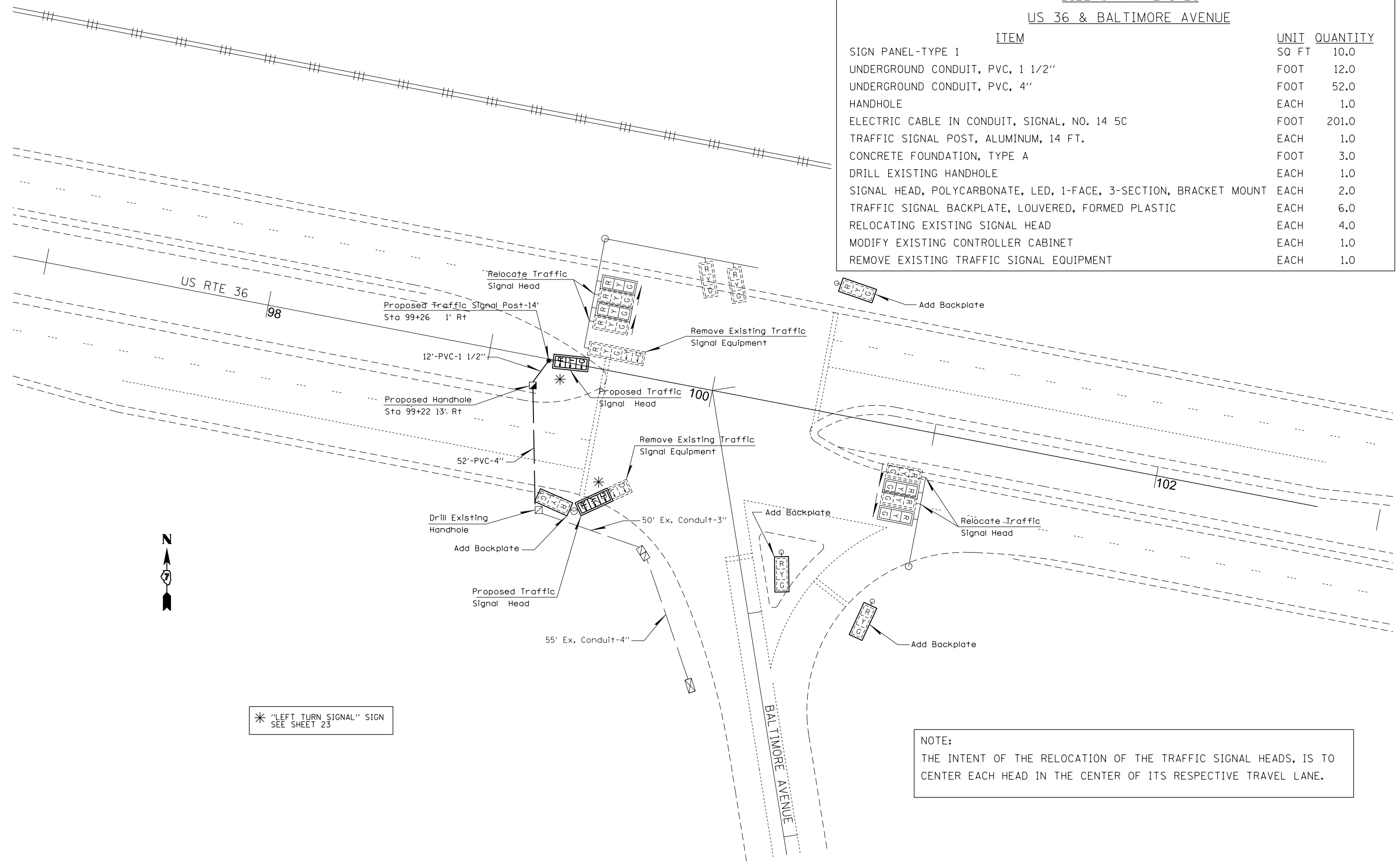
TRAFFIC SIGNAL LAYOUT
INTERSECTION US 36 & 36TH ST

SCALE: 20 SHEET 9 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	31
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS
US 36 & BALTIMORE AVENUE

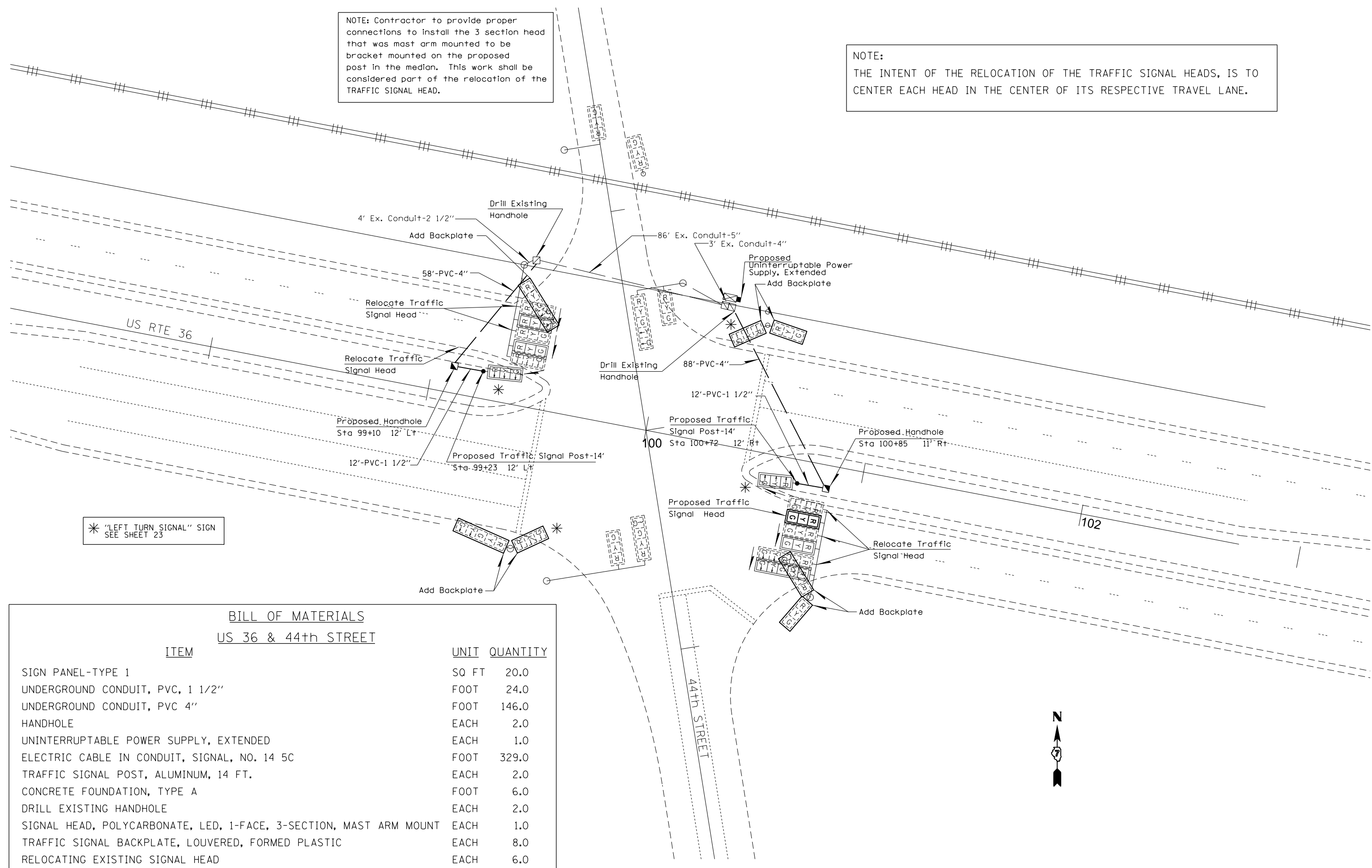
ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	10.0
UNDERGROUND CONDUIT, PVC, 1 1/2"	FOOT	12.0
UNDERGROUND CONDUIT, PVC, 4"	FOOT	52.0
HANDHOLE	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	201.0
TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	3.0
DRILL EXISTING HANDHOLE	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNT	EACH	2.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6.0
RELOCATING EXISTING SIGNAL HEAD	EACH	4.0
MODIFY EXISTING CONTROLLER CABINET	EACH	1.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0



NOTE:
THE INTENT OF THE RELOCATION OF THE TRAFFIC SIGNAL HEADS, IS TO CENTER EACH HEAD IN THE CENTER OF ITS RESPECTIVE TRAVEL LANE.

NOTE: Contractor to provide proper connections to install the 3 section head that was mast arm mounted to be bracket mounted on the proposed post in the median. This work shall be considered part of the relocation of the TRAFFIC SIGNAL HEAD.

NOTE: THE INTENT OF THE RELOCATION OF THE TRAFFIC SIGNAL HEADS, IS TO CENTER EACH HEAD IN THE CENTER OF ITS RESPECTIVE TRAVEL LANE.



* "LEFT TURN SIGNAL" SIGN SEE SHEET 23

BILL OF MATERIALS
US 36 & 44th STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	20.0
UNDERGROUND CONDUIT, PVC, 1 1/2"	FOOT	24.0
UNDERGROUND CONDUIT, PVC 4"	FOOT	146.0
HANDHOLE	EACH	2.0
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	329.0
TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.	EACH	2.0
CONCRETE FOUNDATION, TYPE A	FOOT	6.0
DRILL EXISTING HANDHOLE	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNT	EACH	1.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8.0
RELOCATING EXISTING SIGNAL HEAD	EACH	6.0



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	PLOT DATE = 3/27/2012	DATE -	REVISED -

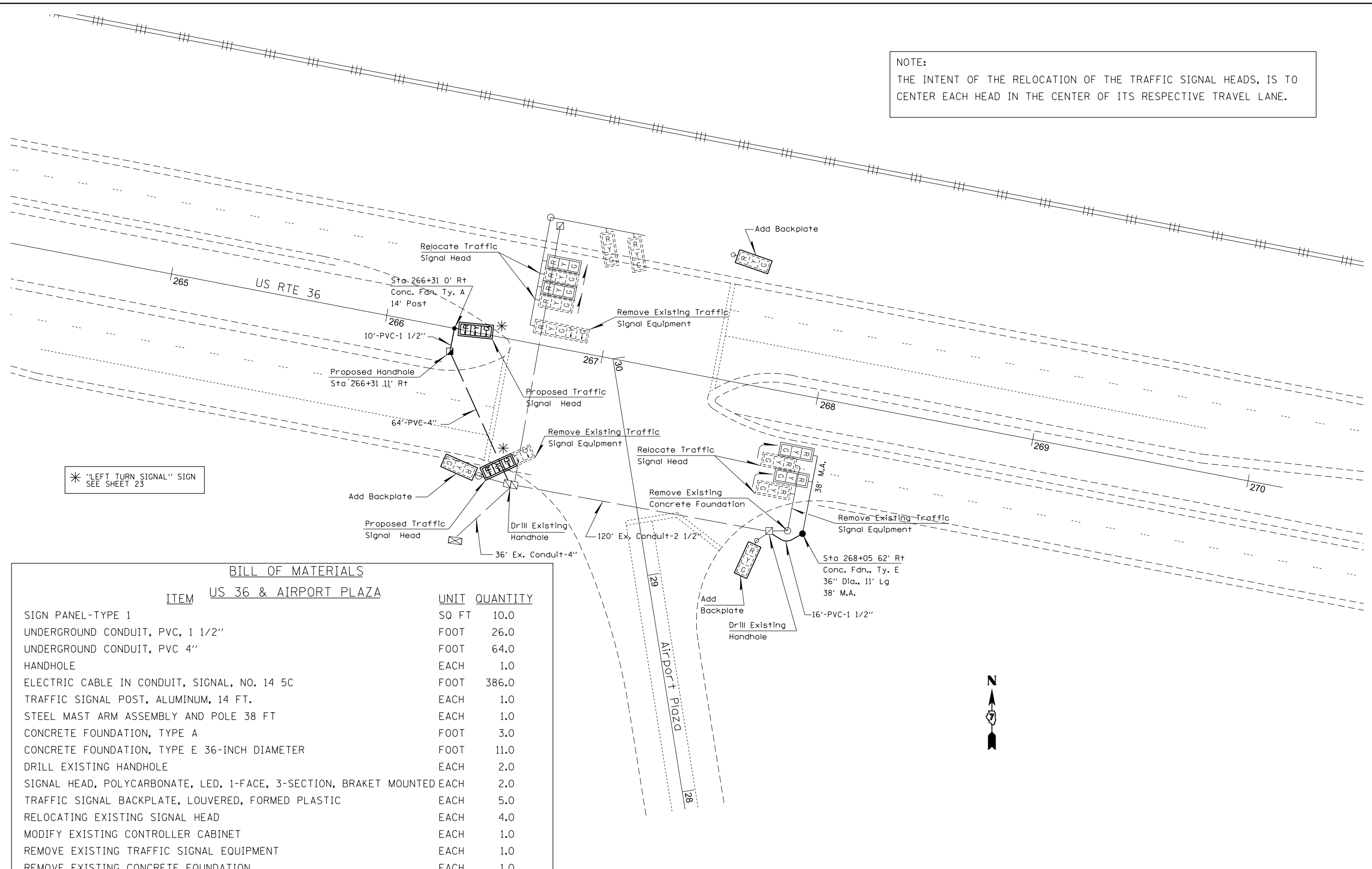
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL LAYOUT
INTERSECTION US 36 & 44TH ST

SCALE: 20 SHEET 11 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2N)	MACON	39	33
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

NOTE:
THE INTENT OF THE RELOCATION OF THE TRAFFIC SIGNAL HEADS, IS TO CENTER EACH HEAD IN THE CENTER OF ITS RESPECTIVE TRAVEL LANE.



* "LEFT TURN SIGNAL" SIGN
SEE SHEET 23

BILL OF MATERIALS		
ITEM	US 36 & AIRPORT PLAZA	UNIT QUANTITY
SIGN PANEL-TYPE 1		SQ FT 10.0
UNDERGROUND CONDUIT, PVC, 1 1/2"		FOOT 26.0
UNDERGROUND CONDUIT, PVC 4"		FOOT 64.0
HANDHOLE		EACH 1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C		FOOT 386.0
TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.		EACH 1.0
STEEL MAST ARM ASSEMBLY AND POLE 38 FT		EACH 1.0
CONCRETE FOUNDATION, TYPE A		FOOT 3.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER		FOOT 11.0
DRILL EXISTING HANDHOLE		EACH 2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED		EACH 2.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC		EACH 5.0
RELOCATING EXISTING SIGNAL HEAD		EACH 4.0
MODIFY EXISTING CONTROLLER CABINET		EACH 1.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		EACH 1.0
REMOVE EXISTING CONCRETE FOUNDATION		EACH 1.0



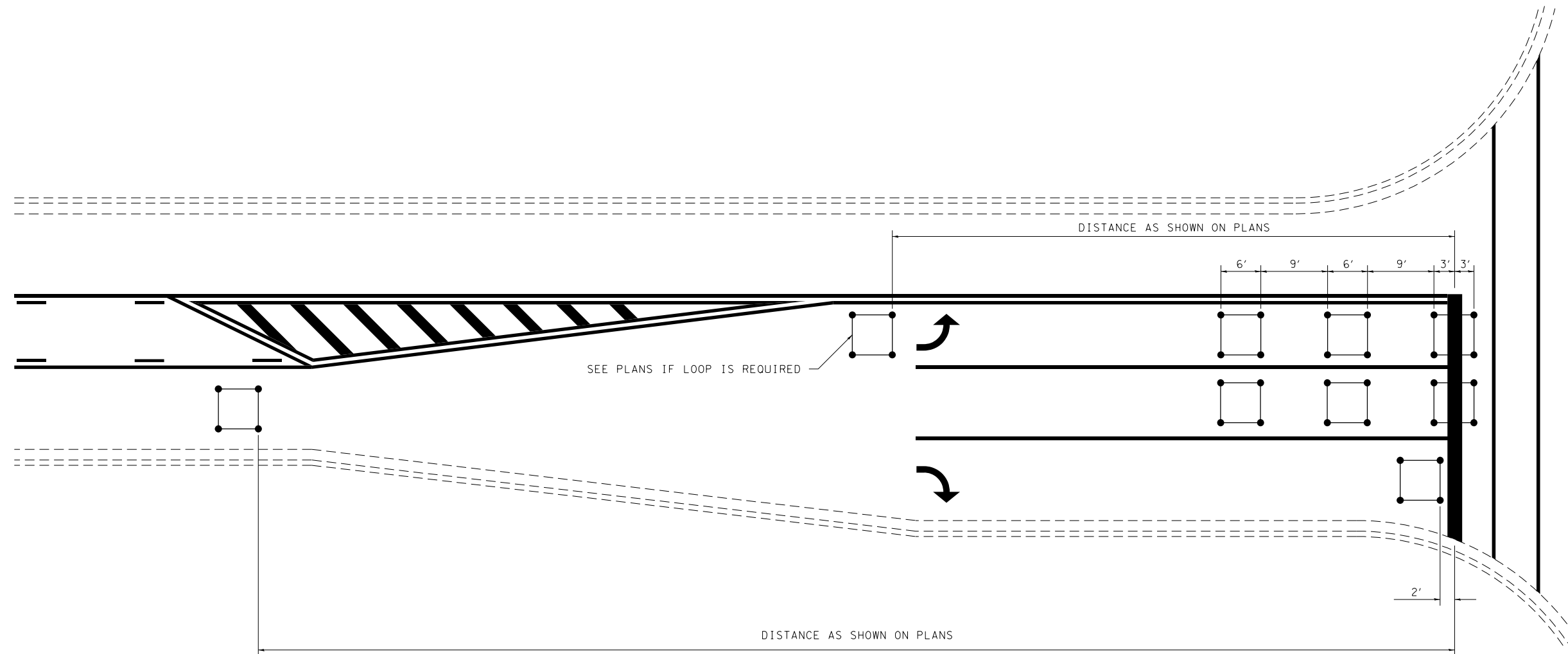
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	PLOT DATE = 3/27/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL LAYOUT
INTERSECTION US 36 & AIRPORT PLAZA
SCALE: 20 SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	34
CONTRACT NO. 74539				
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

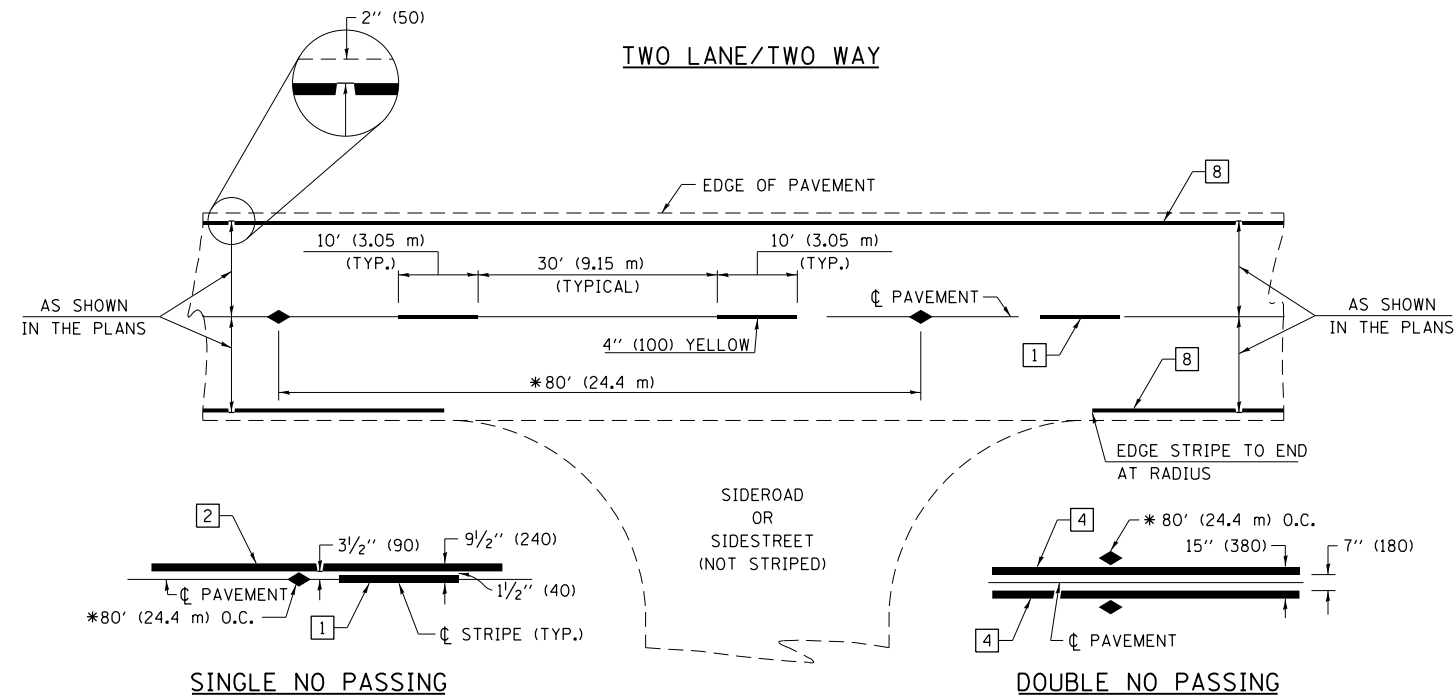
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	PLOT DATE = 3/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS OF DETECTOR LOOPS

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

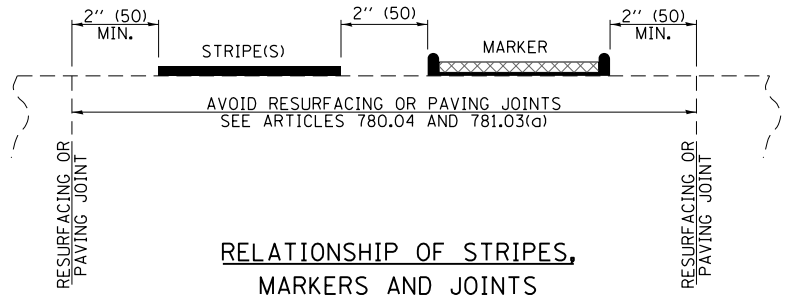
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(1372,139-X-2)N	MACON	39	35
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				



* 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

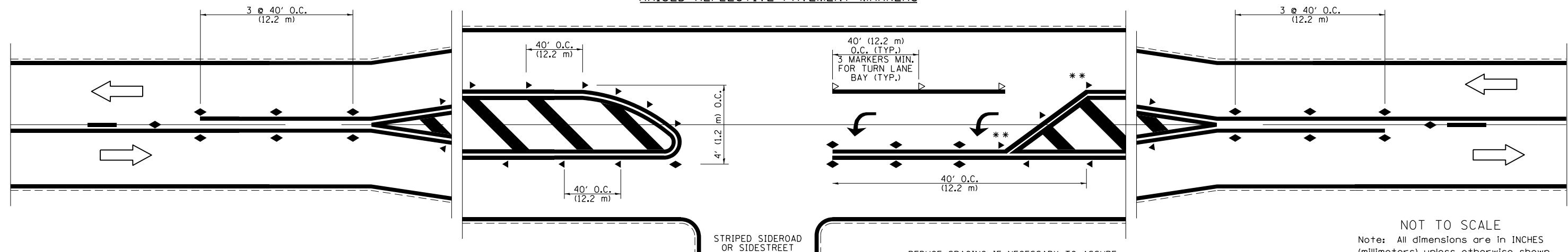
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP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

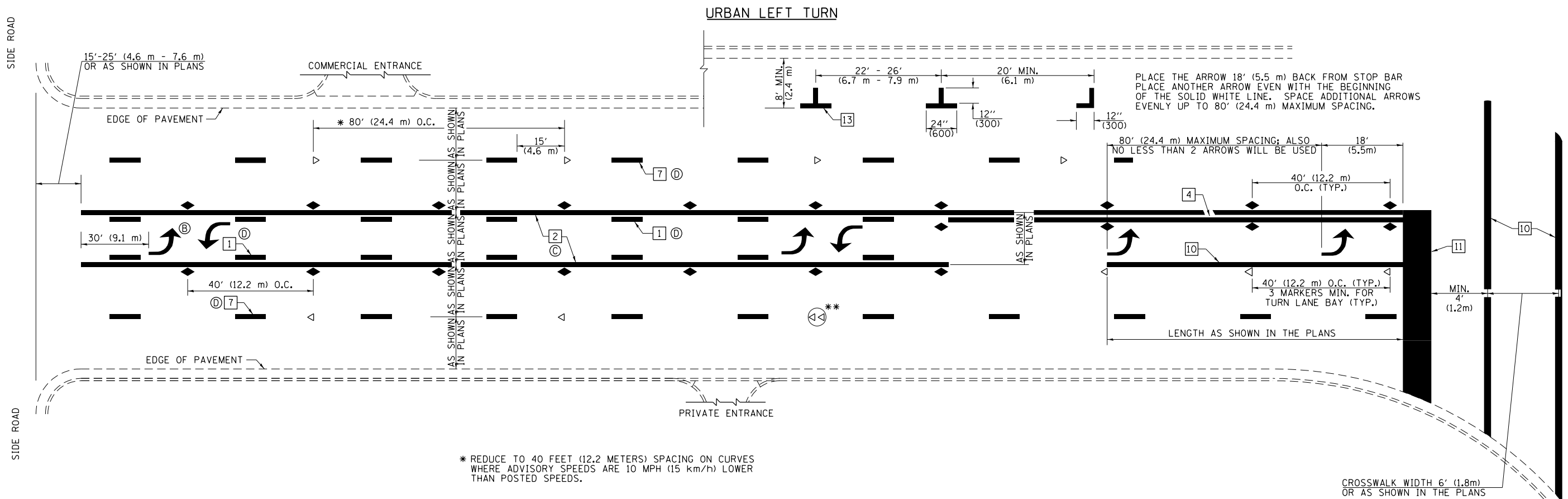
RAISED REFLECTIVE PAVEMENT MARKERS



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

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

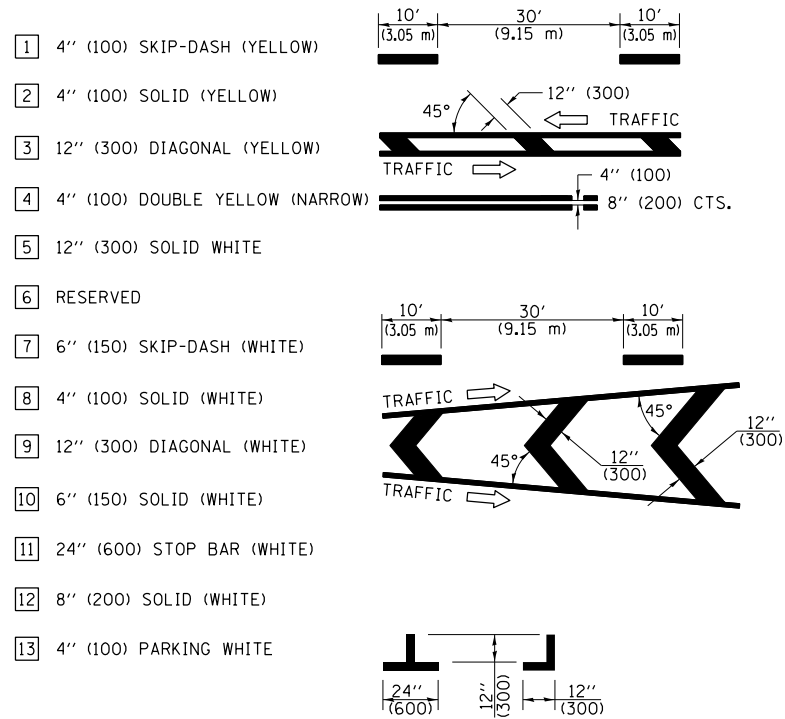
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\dot\stevfenmk\d0273662\0774539-sht-details.dgn	PLOT SCALE = 100.0000' / 1in.	DRAWN -	REVISED -					320	(137Z,139-X-2N)	MACON	39	36
	PLOT DATE = 3/27/2012	CHECKED -	REVISED -		CONTRACT NO. 74539							
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



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

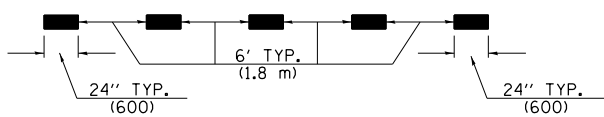
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

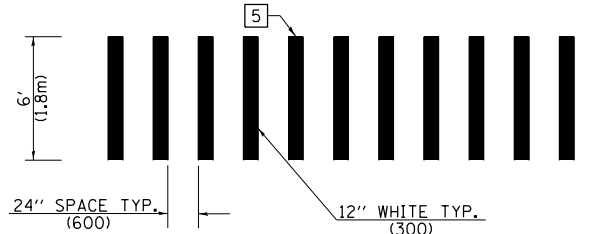


GENERAL NOTES

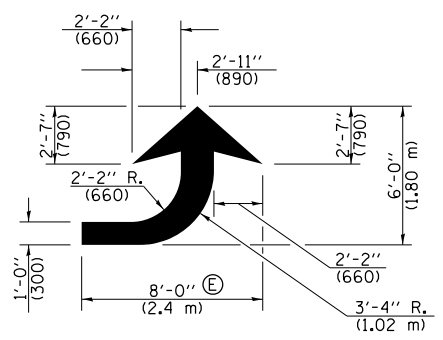
- TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT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



LANE LINE EXTENSIONS

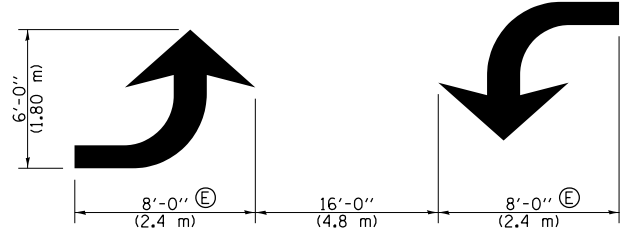


CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



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.

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	PLOT DATE = 3/27/2012	DATE -	REVISED -

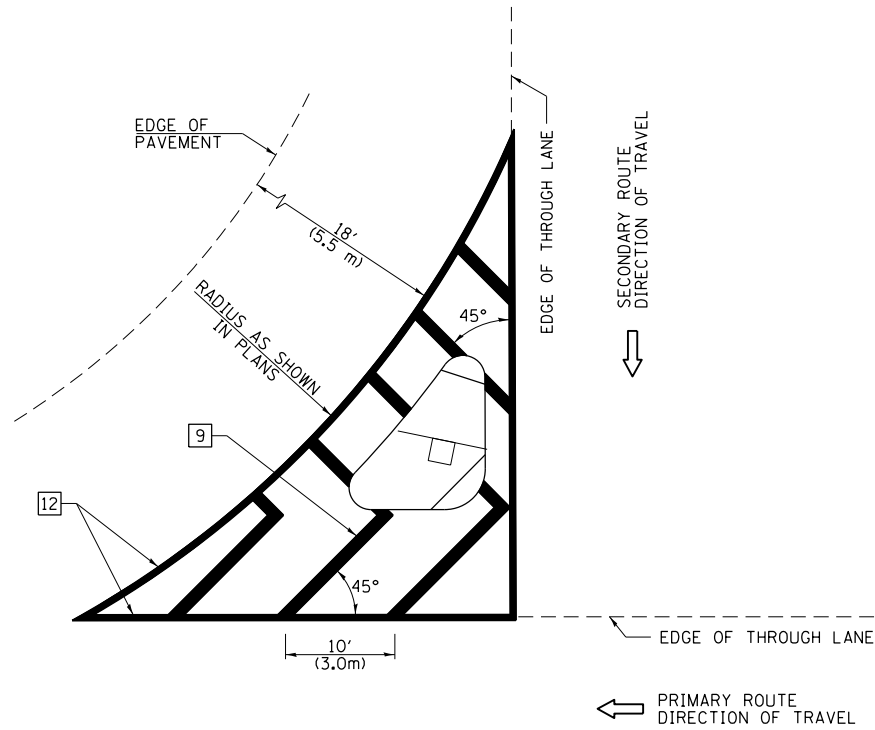
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: N/A SHEET NO. 2 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 7800001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2)N	MACON	39	37
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

ISLAND

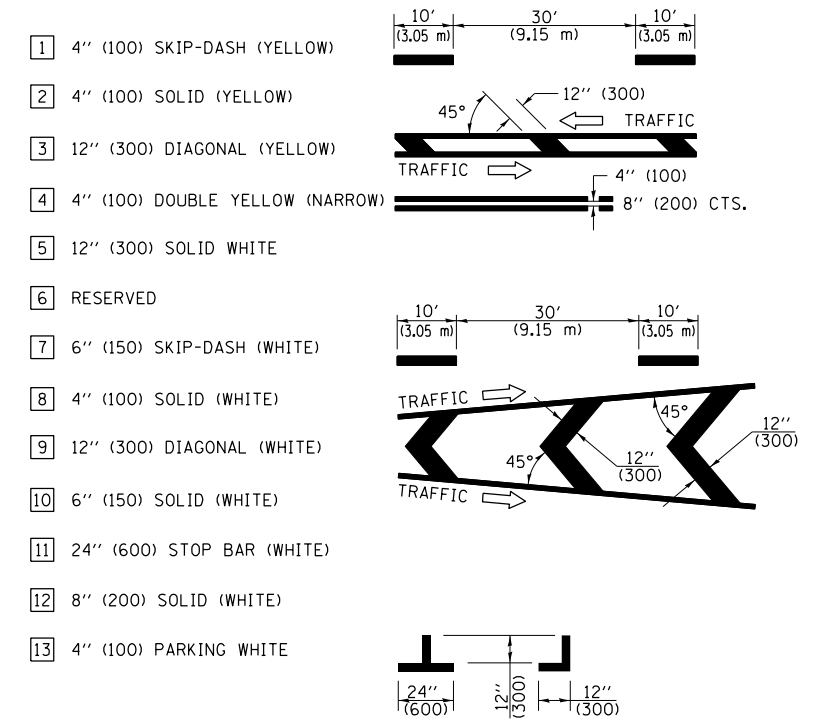


GENERAL NOTES

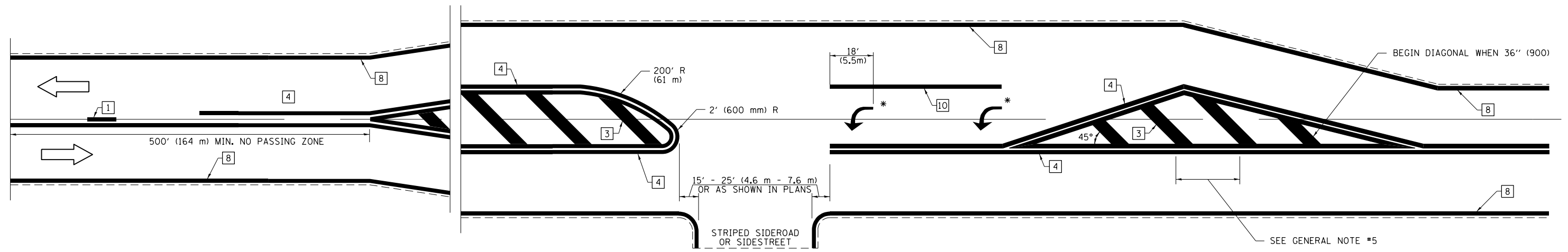
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING 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

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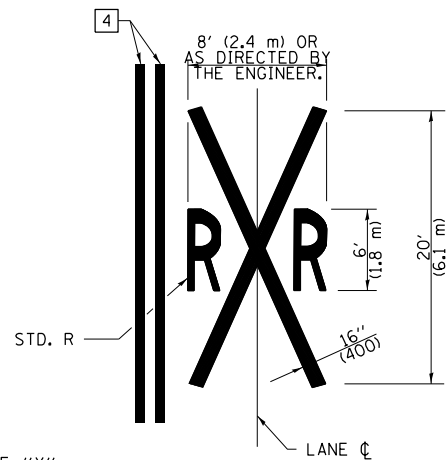
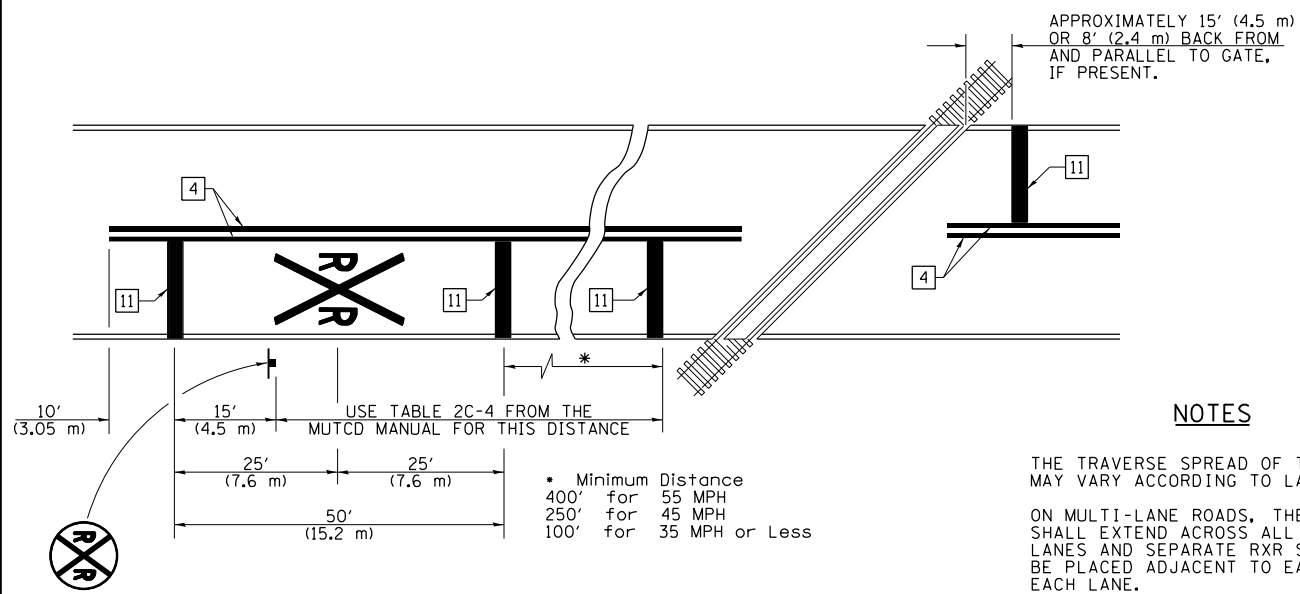
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: N/A SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2N)	MACON	39	38
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



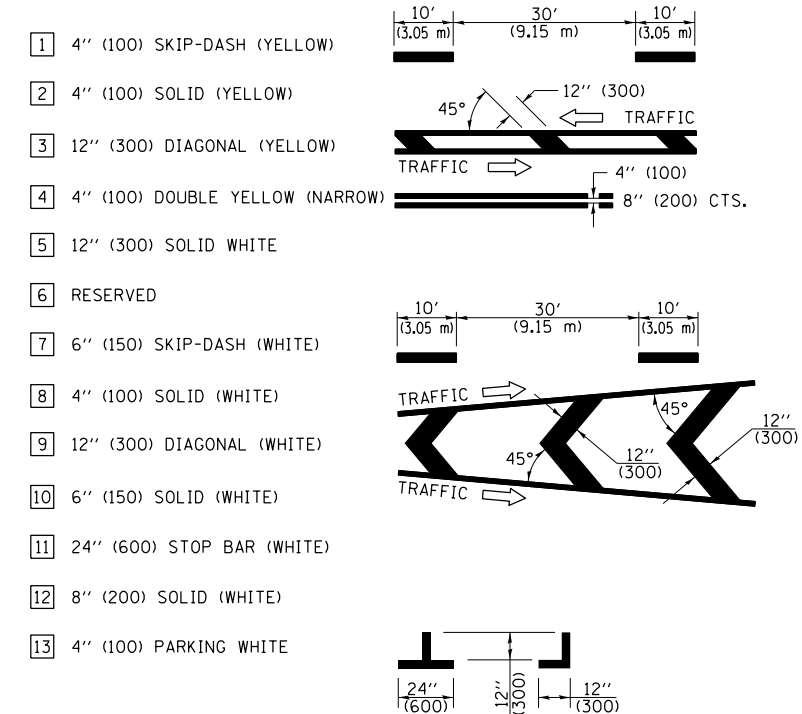
NOTES

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

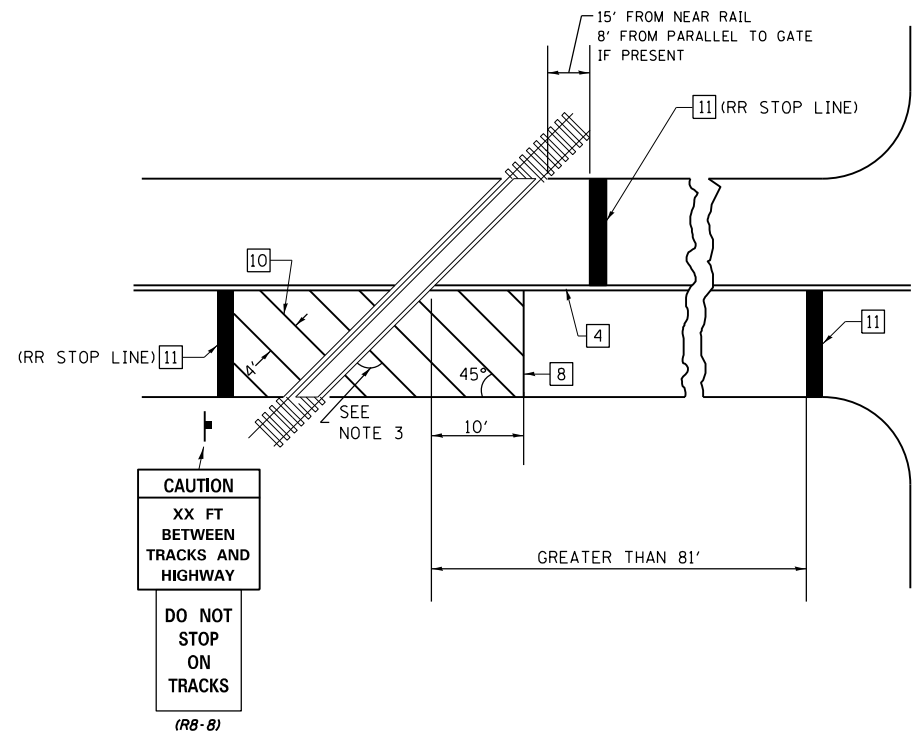
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

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.

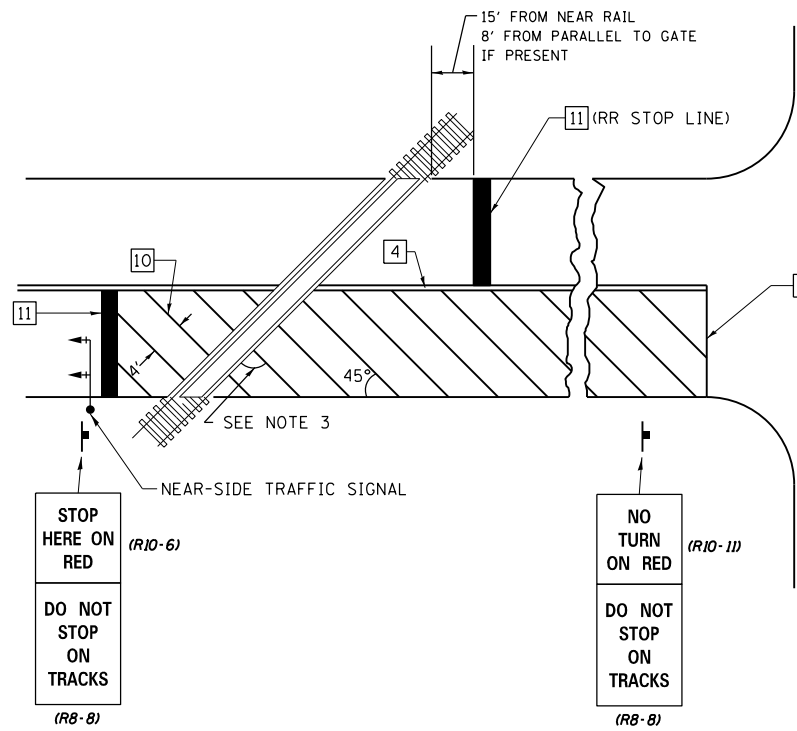
PAVEMENT MARKING LEGEND



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 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 SCALE = 100.0000' / 1in.		CHECKED -	REVISED -
PLOT DATE = 3/27/2012		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 7800001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(137Z,139-X-2N)	MACON	39	39
CONTRACT NO. 74539				
ILLINOIS FED. AID PROJECT				