11-18-11 LETTING ITEM 069

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	*	Wabash	44	1
		ILLINOIS CONTRACT NO. 74449		

*(103,104)RS-1, (12Z)RS-2

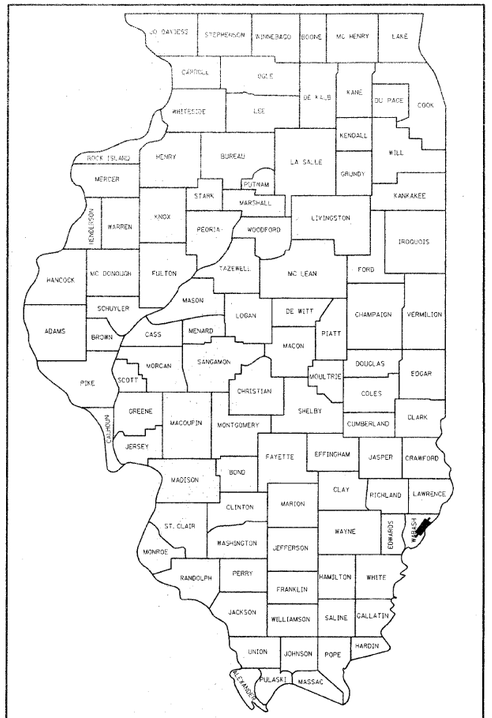
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 827 (IL 1)
SECTION (103,104)RS-1,(12Z)RS-2
PROJECT ACF-0827(006)
RESURFACING (3P)
WABASH COUNTY

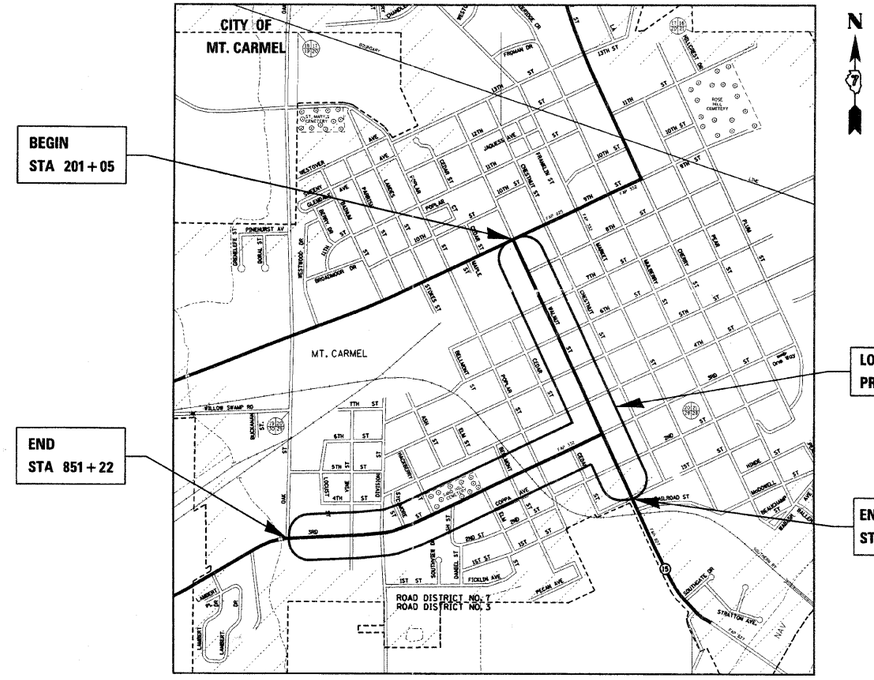
C-97-061-10

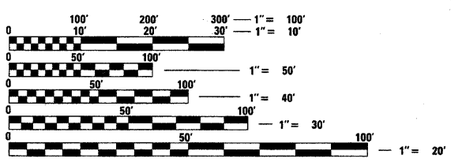
D-97-029-10



LOCATION OF SECTION INDICATED THUS:-

ADT = 8,100





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

GROSS LENGTH = 8713 FT. = 1.650 MILE
NET LENGTH = 8654.00 FT. = 1.639 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Sept 7 20 11
Roger L. Driskill
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14 20 11
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

October 14 20 11
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: MARK DAUGHERTY
PROJECT MANAGER: SOLOMON DZAKUMA

CONTRACT NO. 74449

PRINTED BY THE AUTHORITY 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, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THIS PROJECT IS REHABILITATION OF APPROXIMATELY 2 MILES OF ILLINOIS ROUTE 1 IN MT CARMEL. THE WORK INCLUDED IN SECTION (103, 104)RS-1, (12Z)RS-2 CONSISTS OF HOT-MIX ASPHALT SURFACE REMOVAL, PAVEMENT PATCHING, RESURFACING, PAVEMENT MARKINGS, TRAFFIC SIGNALS AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED IN THE SAME LOCATIONS AS EXISTING MARKINGS EXCEPT FOR STOP BARS WHICH ARE DETAILED ON THE TRAFFIC SIGNALS SHEETS.

SHORT TERM PAVEMENT MARKING ON THE MILLED SURFACE SHALL BE PAINT. ALL OTHER SHORT TERM PAVEMENT MARKINGS SHALL BE TAPE.

RAMP NOSES WILL BE MEASURED AND PAID FOR AS COMBINATION CURB AND GUTTER REMOVAL.

REMOVAL OF THE 4 INCH THICK MEDIAN SURFACE SHALL COMPLY WITH SECTION 440 OF THE STANDARD SPECIFICATIONS AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR CONCRETE MEDIAN SURFACE REMOVAL.

IN ORDER TO COMPLY WITH ARTICLE 701.07 THE HMA SURFACE REMOVAL SHALL BE DONE IN TWO PASSES PER LANE OR COMPLETED IN BOTH LANES IN A GIVEN SECTION BEFORE MOVING ON TO ANOTHER SECTION.

MANHOLES, VALVE VAULTS AND OTHER APPURTENANCES EXPOSED BY THE HOT-MIX ASPHALT SURFACE REMOVAL SHALL BE TEMPORARILY RAMPED WITH HMA 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 ACTUAL LOCATIONS OF PAVEMENT PATCHING SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICES FOR OTHER ITEMS IN THE CONTRACT.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HMA COURSES.

THE MATERIAL USED FOR BITUMINOUS MATERIALS (PRIME COAT) SHALL BE RC-70, SS-1H, OR SS-1HP APPLIED AT THE RATE DIRECTED BY THE ENGINEER.

VIBRATORY ROLLERS IN DYNAMIC MODE WILL NOT BE PERMITTED.

COST OF REMOVAL OF TEMPORARY RAMP SHALL BE INCLUDED IN THE UNIT PRICE FOR TEMPORARY RAMP.

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

HOT MIX ASPHALT	112 LBS/SQ YD/IN
BITUMINOUS MATERIALS PRIME COAT	0.10 GALLONS/SQ YD
AGGREGATE PRIME COAT	4 LBS/SQ YD
GRANULAR MATERIAL	2.05 TONS/CU YD

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE
SURFACE COURSE	PG 64-22	4.0% @ N=90	IL - 9.5	MIX D
LEVELING BINDER	PG 64-22	4.0% @ N=90	IL - 9.5	N/A
CLASS D PATCHING	PG 64-22	4.0% @ N=70	IL - 19.0	N/A

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS
3-4	SUMMARY OF QUANTITIES
5-6	TYPICAL SECTIONS
7	RESURFACING SCHEDULE
8	MONUMENTS & TIES
9	LOCATION MAP
10-24	PLAN SHEETS
25	TRAFFIC SIGNALS GENERAL NOTES
26-33	9TH & WALNUT TRAFFIC SIGNALS
34	5TH & WALNUT FLASHING BEACON
35-43	3RD & WALNUT TRAFFIC SIGNALS
44	TYPICAL APPLICATIONS OF DETECTOR LOOPS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L 2W, UNDIVIDED
701502-04	URBAN LANE CLOSURE, 2L 2W WITH BIDIRECT LEFT TURN LN
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720016-02	MAST ARM MOUNTED STREET NAME SIGNS
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
825001-01	LIGHTING CONTROLLER POLE MOUNTED, 240V
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-04	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

80% FED.
20% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005	0021	0021
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	14			14
35501336	HOT-MIX ASPHALT BASE COURSE, 13"	SQ YD	60	60		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3451	3451		
40600300	AGGREGATE (PRIME COAT)	TON	69	69		
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	1449	1449		
40600990	TEMPORARY RAMP	SQ YD	543	543		
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	2899	2899		
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	348	348		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	34510	34510		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	178	178		
44000600	SIDEWALK REMOVAL	SQ FT	348	348		
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	50	50		
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	20	20		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	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
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4680	4680		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	520	520		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1052	1052		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10313	10313		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2555	2555		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	172	172		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	423	423		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	60	60		

80% FED
20% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005	0021	0021
* 80500100	SERVICE INSTALLATION, TYPE A	EACH	3		1	2
* 81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	1036			1036
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	955			955
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	283			283
* 81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	622			622
* 81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	36			36
* 81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	18		18	
* 81400100	HANDHOLE	EACH	12			12
* 81400300	DOUBLE HANDHOLE	EACH	2			2
* 81500100	GULFBOX JUNCTION	EACH	7			7
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1513			1513
* 83057170	LIGHT POLE, WOOD, 35 FOOT, CLASS 3	EACH	3		2	1
* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2			2
* 85800100	FLASHER CONTROLLER	EACH	1		1	
* 87200400	SPAN WIRE	FOOT	94		94	
* 87200500	TETHER WIRE	FOOT	94		94	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	368			368
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3872			3872
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5270			5270
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	5992			5992
* 87301800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	157			157
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	137			137
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1416			1416
* 87302245	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	75		75	
* 87502660	TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	6			6
* 87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	7			7
* 87502720	TRAFFIC SIGNAL POST, ALUMINUM 18 FT.	EACH	2			2
* 87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1			1
* 87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2			2

80% FED.
20% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005	0021	0021
*87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2			2
*87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1			1
*87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2			2
*87800100	CONCRETE FOUNDATION, TYPE A	FOOT	42			42
*87800200	CONCRETE FOUNDATION, TYPE D	FOOT	7			7
*87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	124.75			124.75
*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	2			2
*88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	11			11
*88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	5			5
*88040290	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1			1
*88040360	SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1			1
*88040420	SIGNAL HEAD, POLYCARBONATE, LED, 4-FACE, 1-SECTION, SPAN WIRE MOUNTED	EACH	2		2	
*88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2			2
*88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	5			5
*88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	56		8	48
*88500100	INDUCTIVE LOOP DETECTOR	EACH	34			34
*88600100	DETECTOR LOOP, TYPE I	FOOT	3156			3156
*88800100	PEDESTRIAN PUSH-BUTTON	EACH	12			12
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2			2
89502380	REMOVE EXISTING HANDHOLE	EACH	12			12
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2			2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	12			12
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1		1	
X4060995	TEMPORARY RAMP, SPECIAL	SQ YD	2070	2070		
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	426	426		

80% FED.
20% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005	0021	0021
X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	8			8
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		

*SPECIALTY ITEM

FILE NAME =	USER NAME = teasleyck	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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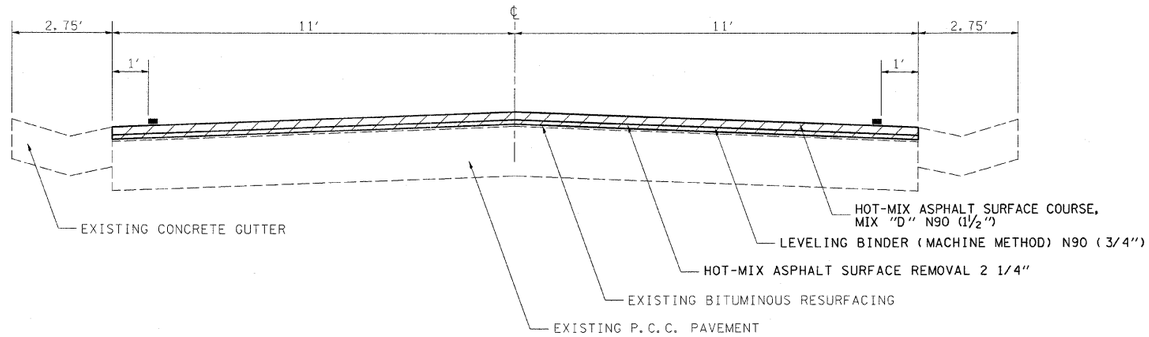
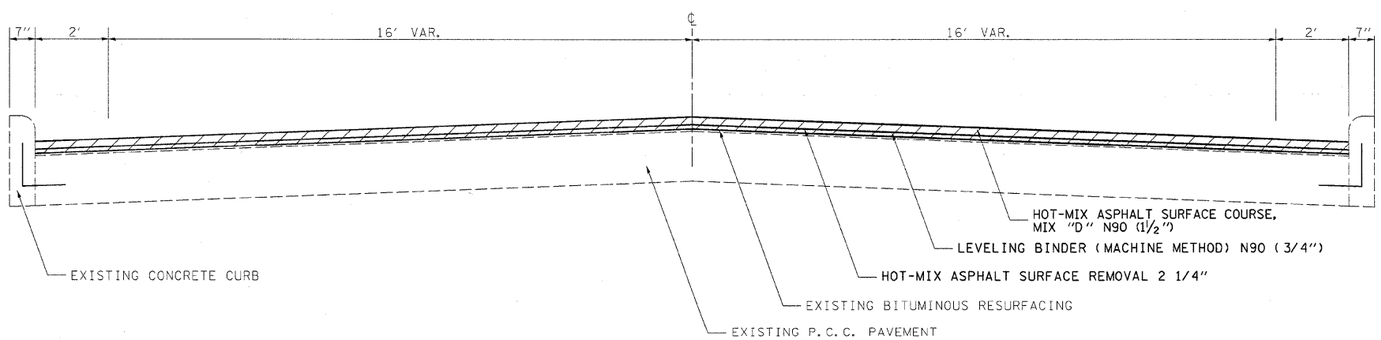
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



STA 851+22 TO STA 860+10



STA 860+10 TO STA 893+45
STA 893+45 TO STA 897+00
STA 897+10 TO STA 897+40

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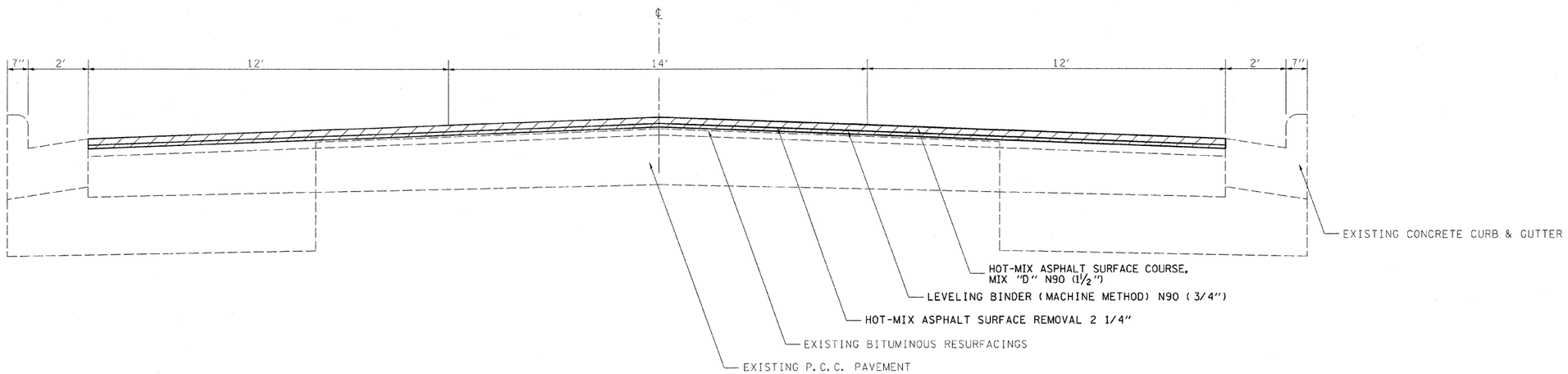
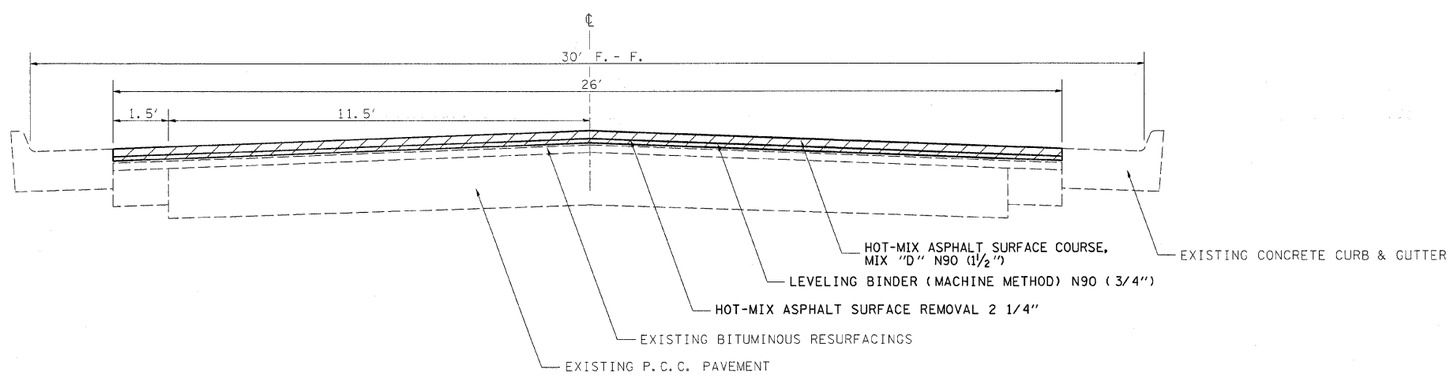
		DRAWN -	REVISED -			827	*	Wabash	44	5
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



STA 41+00 TO STA 68+40



STA 70+40 TO STA 78+80

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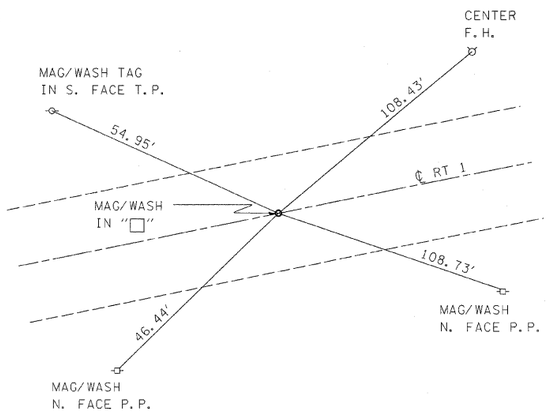
		DRAWN -	REVISED -			827	*	Wabash	44	6
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2

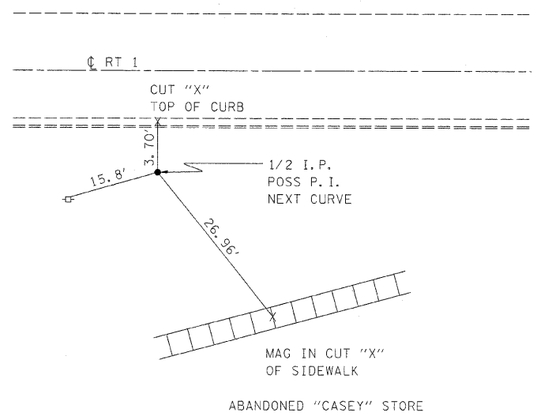
RESURFACING SCHEDULE

STATION TO STATION	LENGTH	AVERAGE PAVEMENT WIDTH	AREA	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	LEVELING BINDER (MACHINE METHOD), N90	TEMPORARY RAMP
	FOOT	FOOT	SQ YD	SQ YD	GALLON	TON	TON	TON	SQ YD
851+22.00 TO 860+10.00	888.0	22.0	2170.7	2170.7	217.1	4.3	182.3	91.2	36.7
860+10.00 TO 893+45.00	3335.0	27.0	10005.0	10005.0	1000.5	20.0	840.4	420.2	0.0
893+45.00 TO 897+00.00	355.0	34.0	1341.1	1341.1	134.1	2.7	112.7	56.3	0.0
897+00.00 TO 897+40.00	40.0	40.0	177.8	177.8	17.8	0.4	14.9	7.5	0.0
9TH STREET & WALNUT INTERSECTION			3776.6	3776.6	377.7	7.6	317.2	158.6	226.7
41+00.00 TO 68+40.00	2740.0	43.0	13091.1	13091.1	1309.1	26.2	1099.7	549.8	0.0
3RD STREET & WALNUT INTERSECTION			1737.5	1737.5	173.7	3.5	145.9	73.0	80.0
70+40.00 TO 74+28.00	388.0	30.0	1293.3	1293.3	129.3	2.6	108.6	54.3	0.0
74+28.00 TO 75+02.00	74.0	15.0	123.3	123.3	12.3	0.2	10.4	5.2	50.0
75+60.00 TO 76+00.00	40.0	15.0	66.7	66.7	6.7	0.1	5.6	2.8	50.0
76+41.00 TO 76+83.00	42.0	15.0	70.0	70.0	7.0	0.1	5.9	2.9	50.0
76+83.00 TO 78+80.00	197.0	30.0	656.7	656.7	65.7	1.3	55.2	27.6	50.0
TOTALS	8099.0		34510.0	34510.0	3451.0	69.0	2899.0	1449.0	543.0

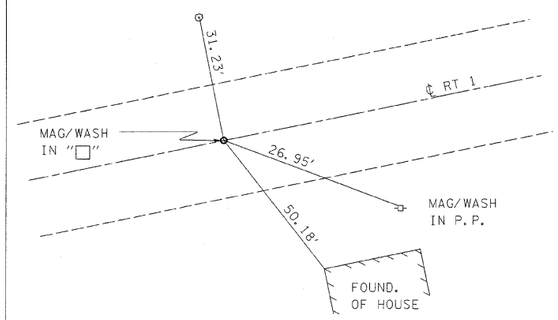
P.T. 854+76.45



P.I.(P.O.T.) FOUND I.D. #702
BACK TANGENT STA 865+61.75



P.O.T. 857+00

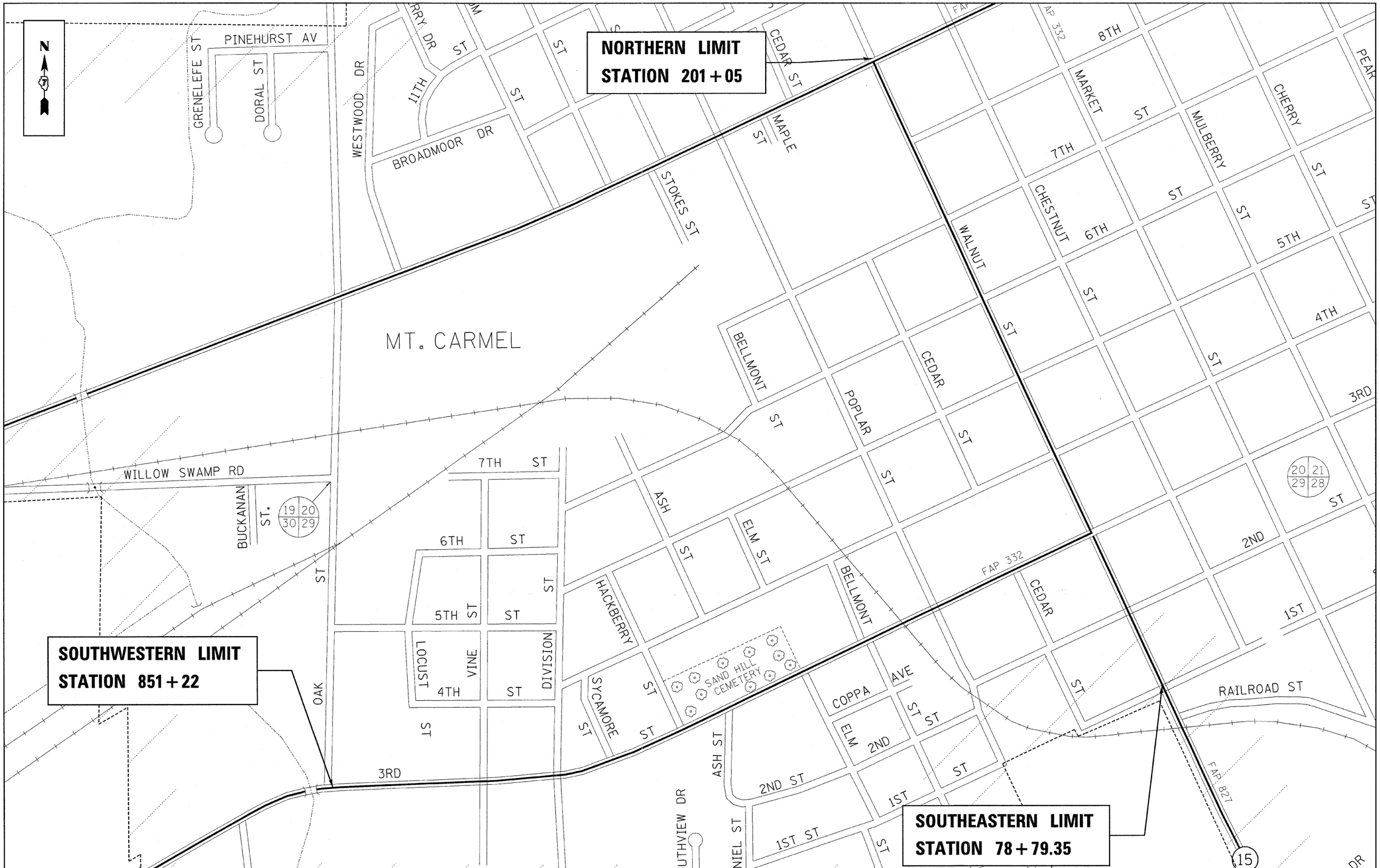


Schedule of Exsisting Monuments

Station	Offset	Description
39+51.10 (Walnut)	0	Found Alum. IDOT disk flush in blt pavt
50+00 (9th Street)		stamped POT 18+919 metric stationing
857+00	0	Found Mag Nail with washer - POT
854+76.45	0	Found Mag Nail with washer - PT
0+00 (IL 15)	0	Found PK Nail
(Walnut Street)		
12+21.58 BK =	0	Found PK Nail - PC 12+21.58
1012+15.28 AH		
20+00	0	Found PK - possible Sta of Nail is 100 feet
		from bridge abutment. Did not find PT

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS	MONUMENTS & TIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\teasleyck\d0177977\D774449-sht-ATB.dgn		DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		827	*	Wabash	44	8
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (122)RS-2



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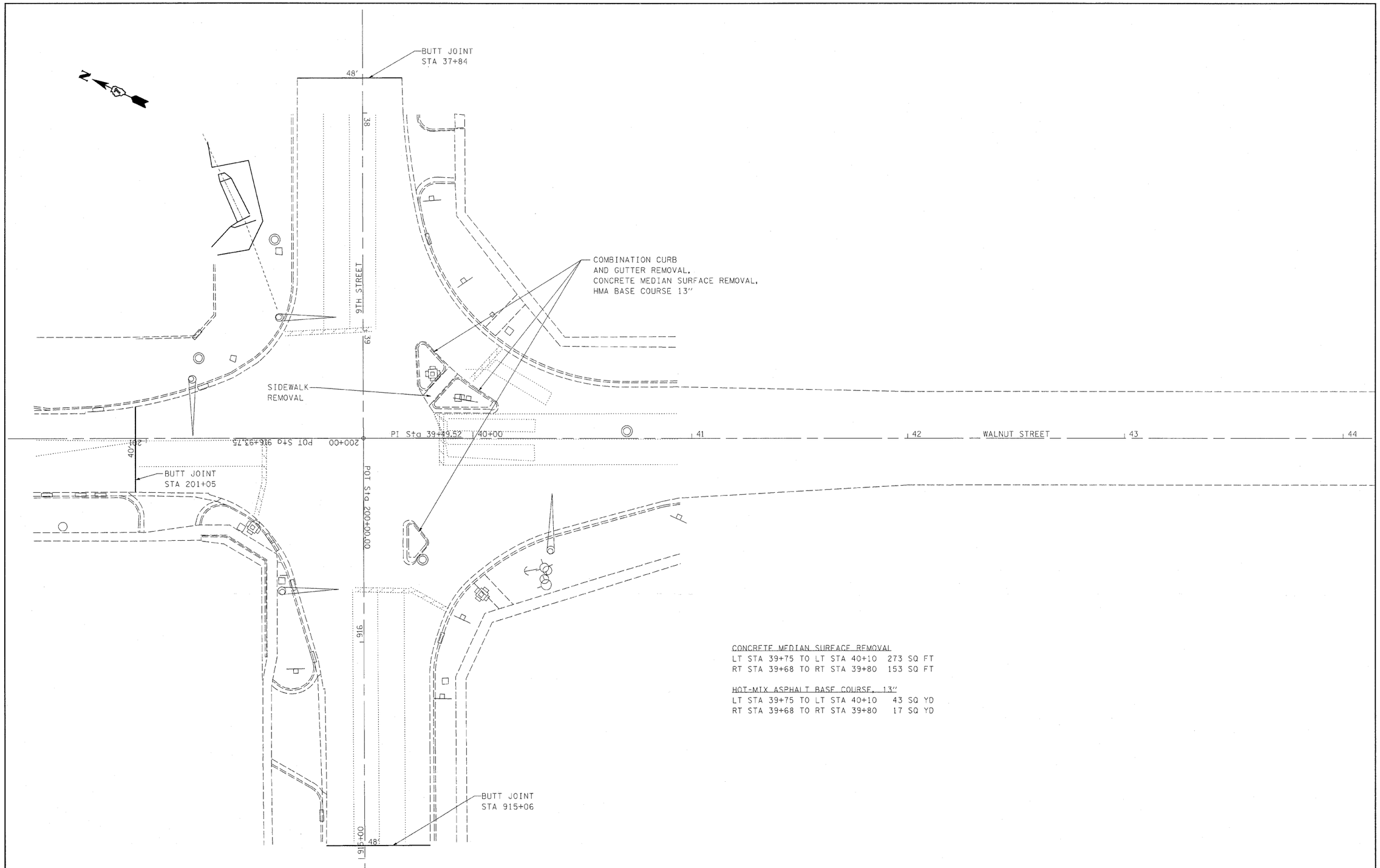
	PLOT SCALE = 50.0000 ' / in.	DRAWN -	REVISED -			827	•	Wabash	44 / 9
	PLOT DATE = 9/7/2011	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 74449	
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT	

•(103,104)RS-1, (122)RS-2



CONCRETE MEDIAN SURFACE REMOVAL
LT STA 39+75 TO LT STA 40+10 273 SQ FT
RT STA 39+68 TO RT STA 39+80 153 SQ FT

HOT-MIX ASPHALT BASE COURSE, 13"
LT STA 39+75 TO LT STA 40+10 43 SQ YD
RT STA 39+68 TO RT STA 39+80 17 SQ YD

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET WALNUT STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn		DRAWN -	REVISED -			827	*	Wabash	44	10
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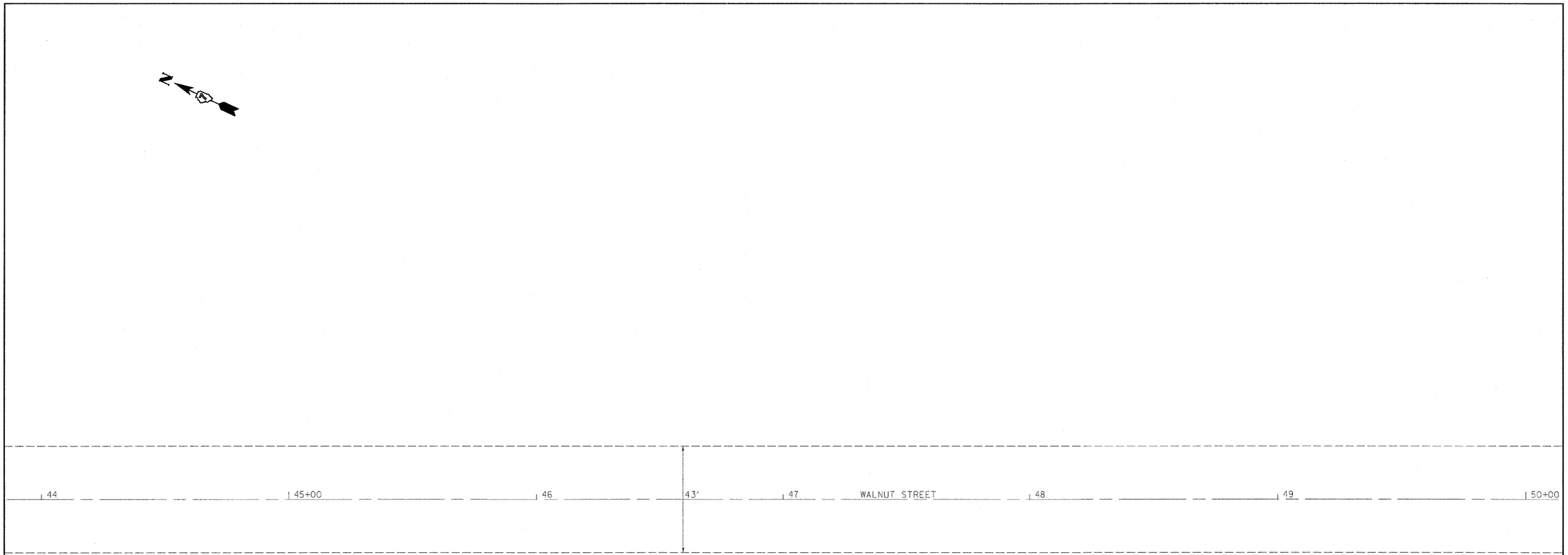
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



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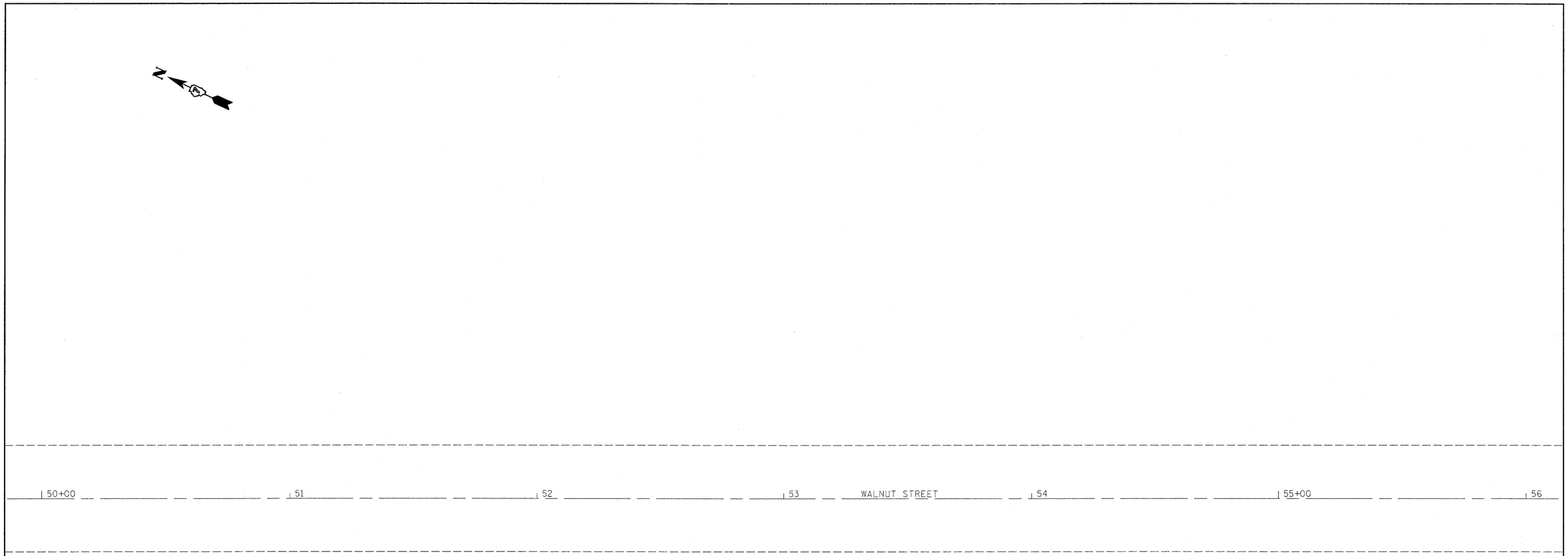
		DRAWN -	REVISED -			827	*	Wabash	44	11
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



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		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/7/2011	DATE -	REVISED -

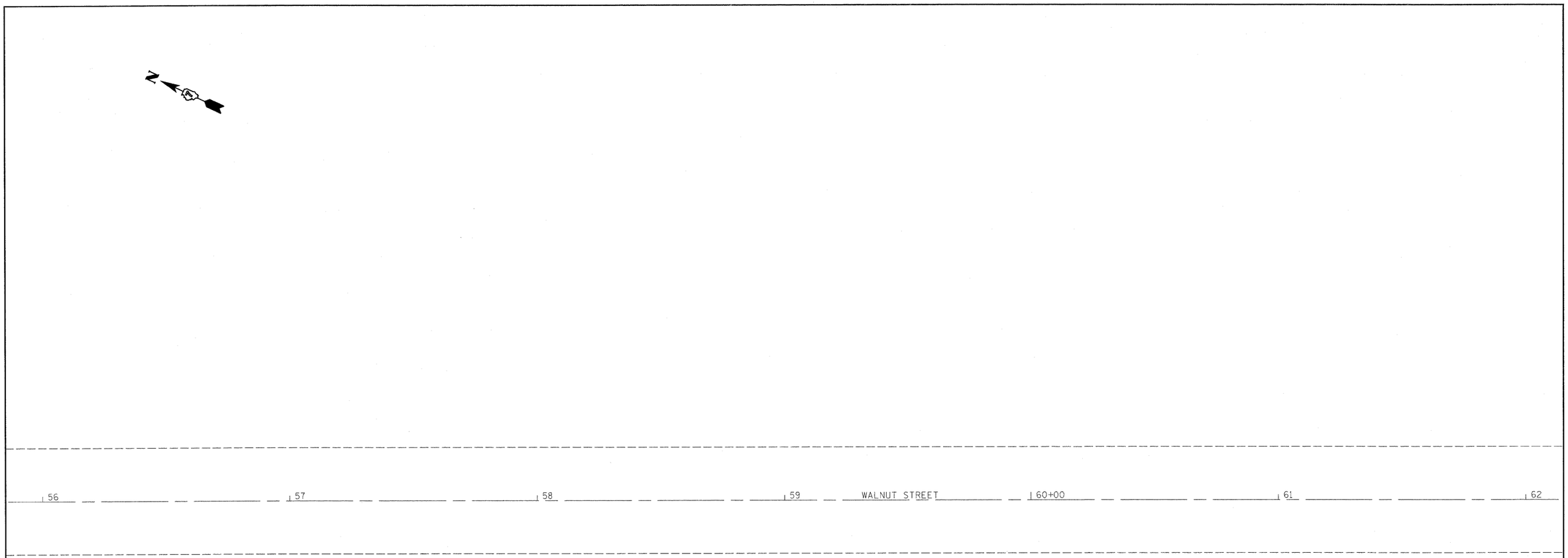
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
WALNUT STREET

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

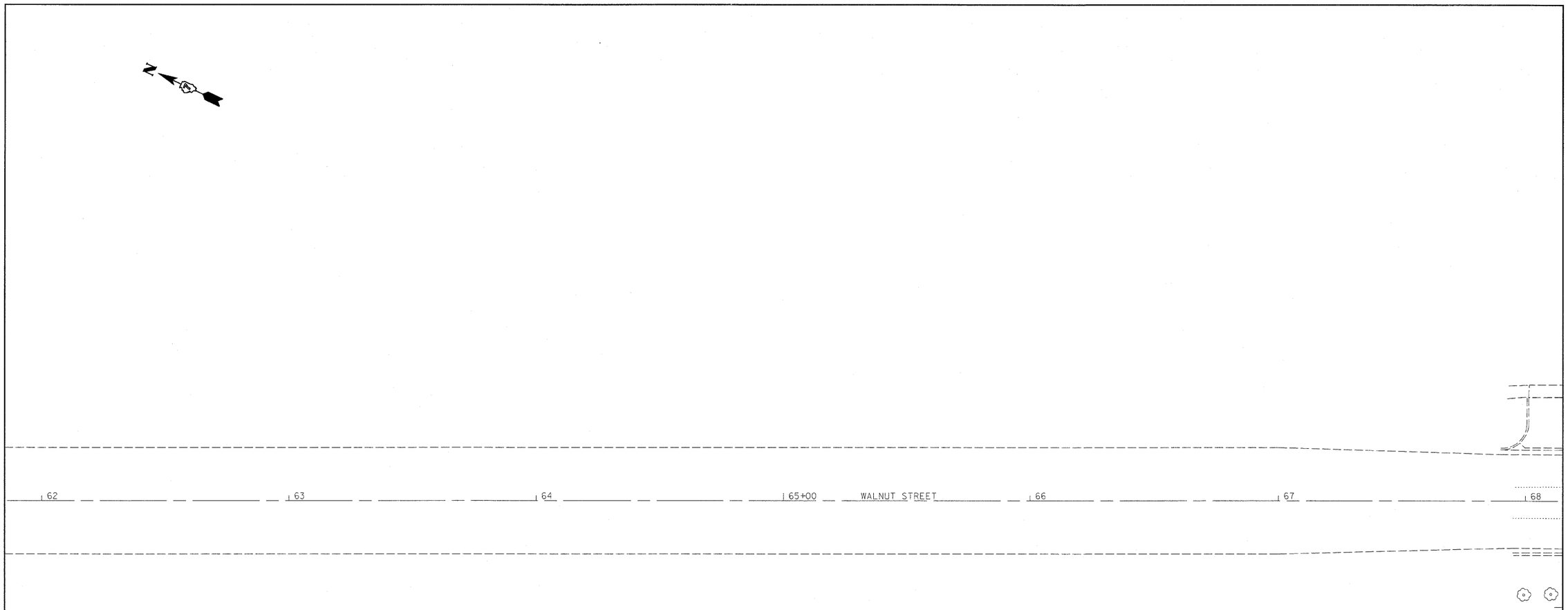
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	*	Wabash	44	12
		CONTRACT NO. 74449		
		ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



FILE NAME = c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET WALNUT STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			827	*	Wabash	44	13
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



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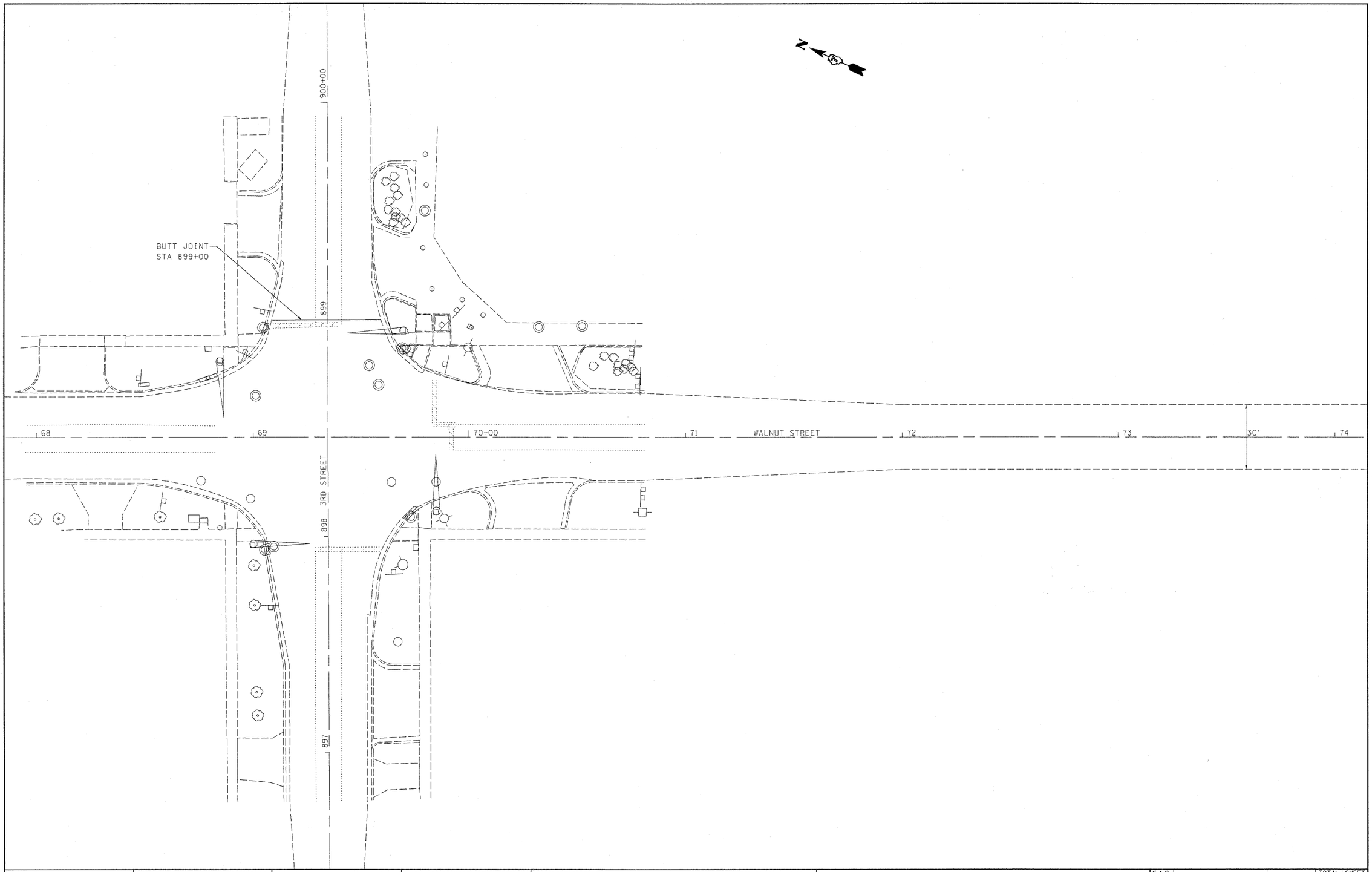
		DRAWN -	REVISED -			827	*	Wabash	44	14
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (122)RS-2



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		DRAWN -	REVISED -			827	*	Wabash	44	15
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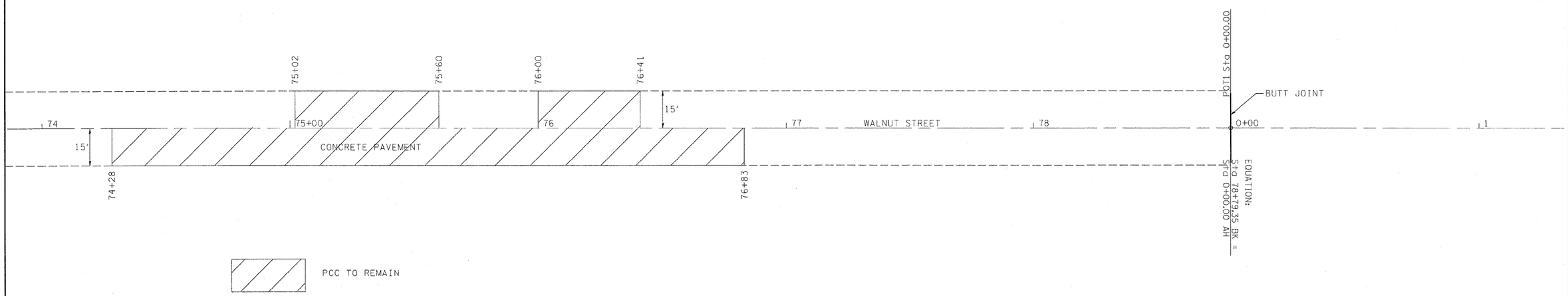
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



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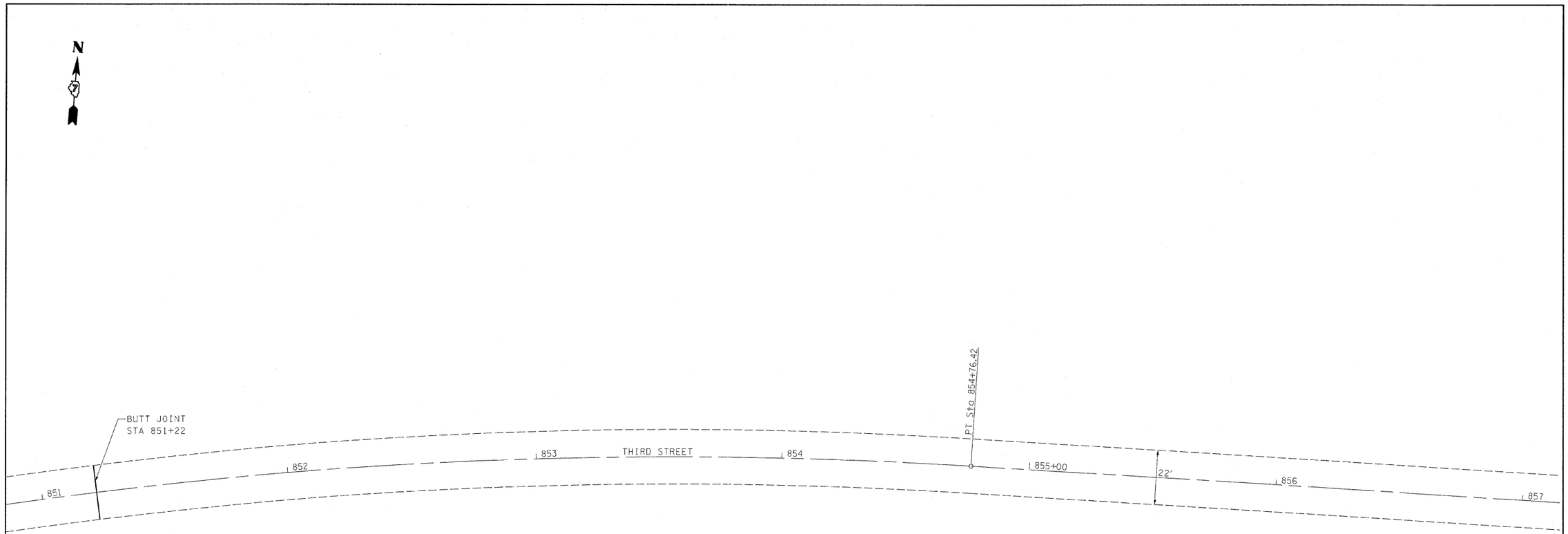
		DRAWN -	REVISED -					827	•	Wabash	44	16
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT		

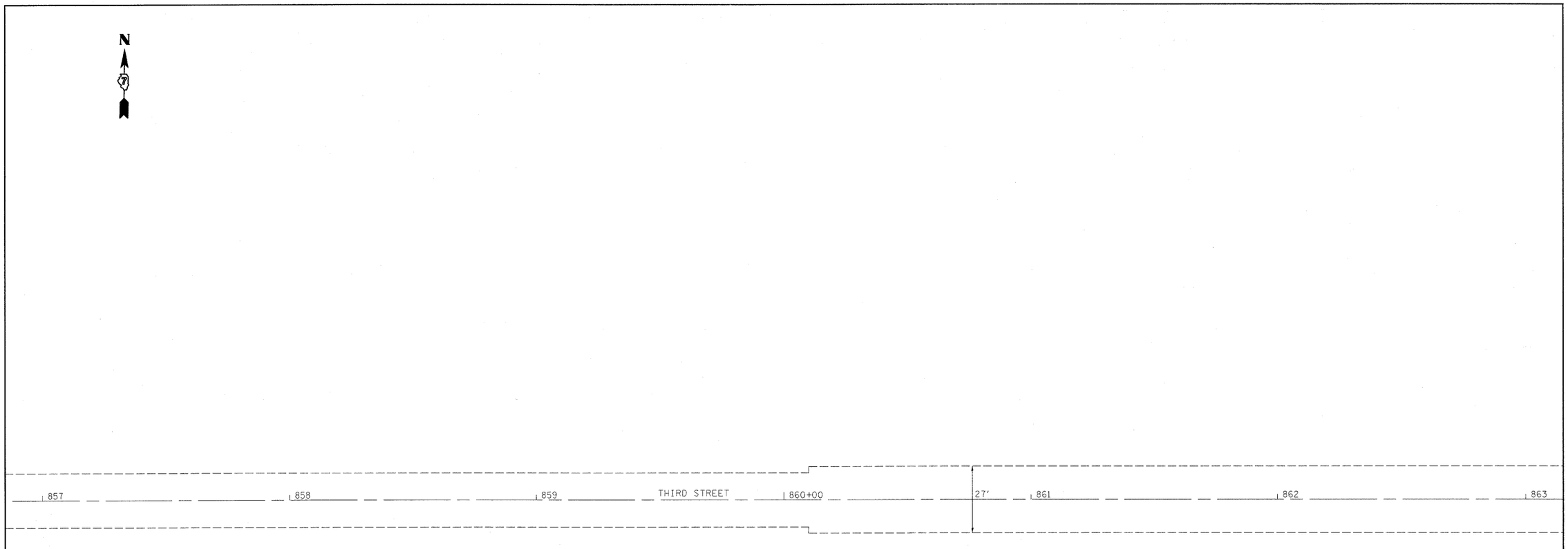
*(103,104)RS-1, (12Z)RS-2



EXIST. CURVE 1A
PI STA. = 849+93.29
Δ = 29° 37' 41" (RT)
D = 2° 59' 46"
R = 1,912.37'
T = 505.77'
L = 988.90'
E = 65.75'
θ = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 844+87.52
P.T. STA. = 854+76.42

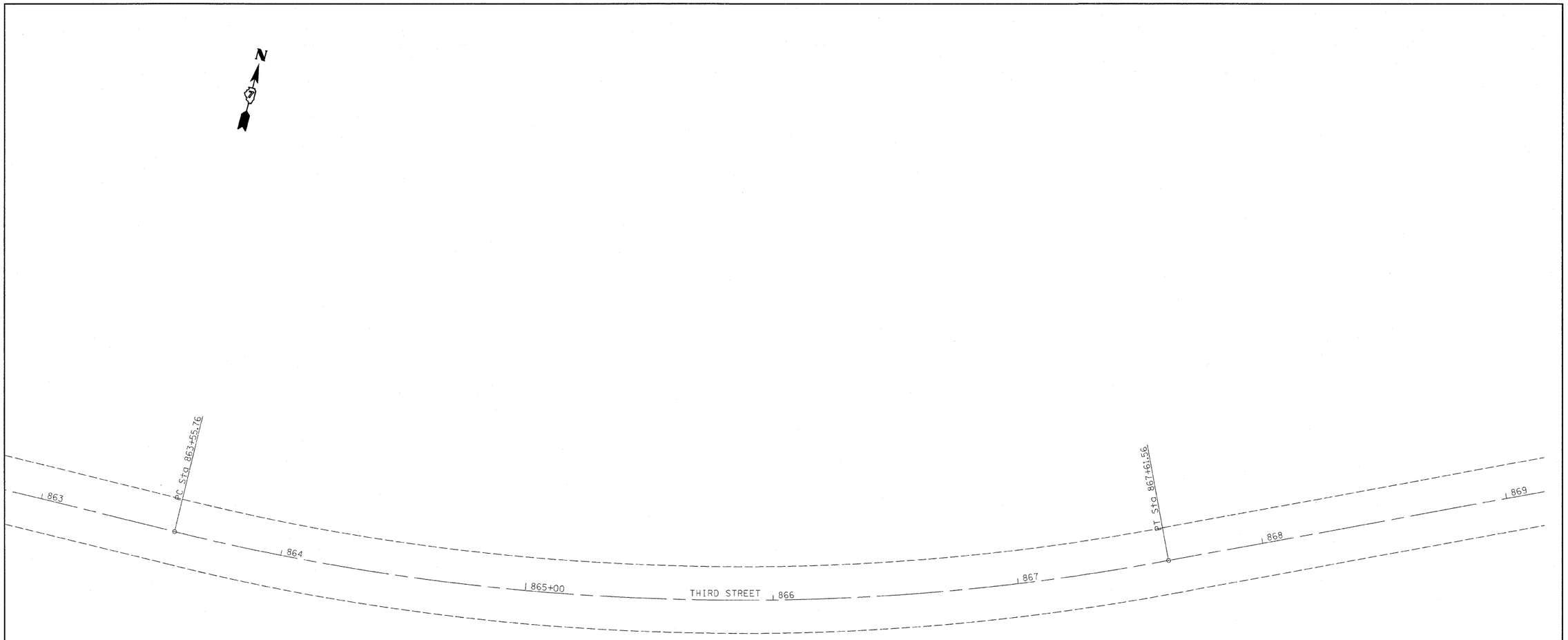
FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET THIRD STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn		DRAWN -	REVISED -			827	•	Wabash	44	17
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET THIRD STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn		DRAWN -	REVISED -			827	*	Wabash	44	18
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

*(103,104)RS-1, (12Z)RS-2



EXIST. CURVE 1B
PI STA. = 865+61.77
Δ = 24° 21′ 59″ (LT)
D = 6° 00′ 16″
R = 954.21′
T = 206.01′
L = 405.80′
E = 21.99′
θ = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 863+55.76
P.T. STA. = 867+61.56

FILE NAME = c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET THIRD STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			827	*	Wabash	44	19
	PLOT SCALE = 20.0000 ′ / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2

869 870+00 871 872 THIRD STREET 873 874 875+00

FILE NAME = c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn	USER NAME = teasleyck	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/7/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
THIRD STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	*	Wabash	44	20
		CONTRACT NO. 74449		
		ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2

FILE NAME = c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET THIRD STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			827	*	Wabash	44	21
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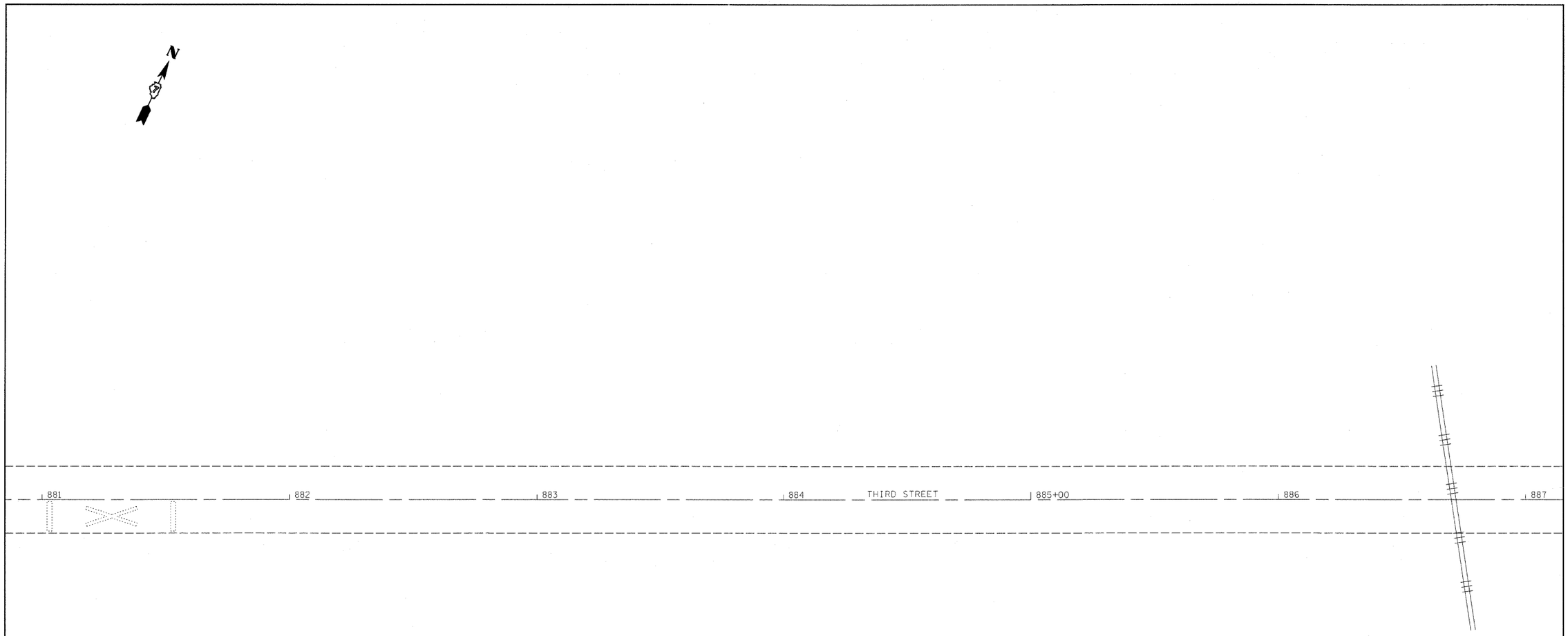
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



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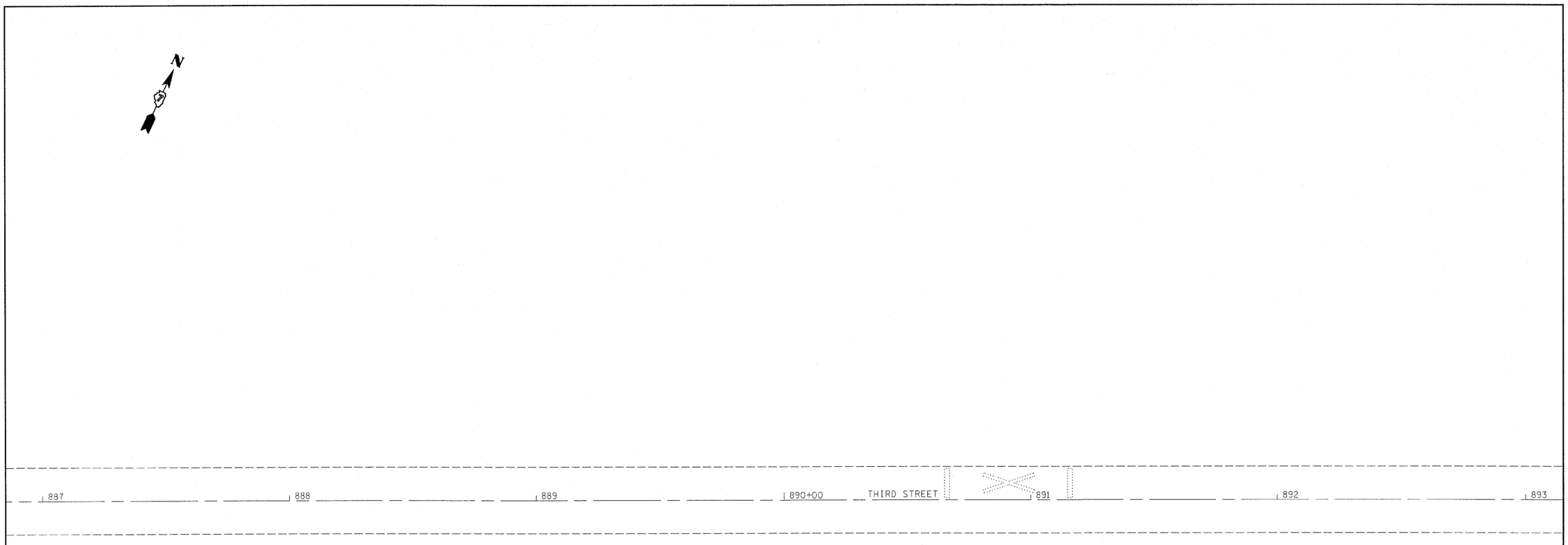
	PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISED -			827	*	Wabash	44	22
	PLOT DATE = 9/7/2011	CHECKED -	REVISED -					CONTRACT NO. 74449		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



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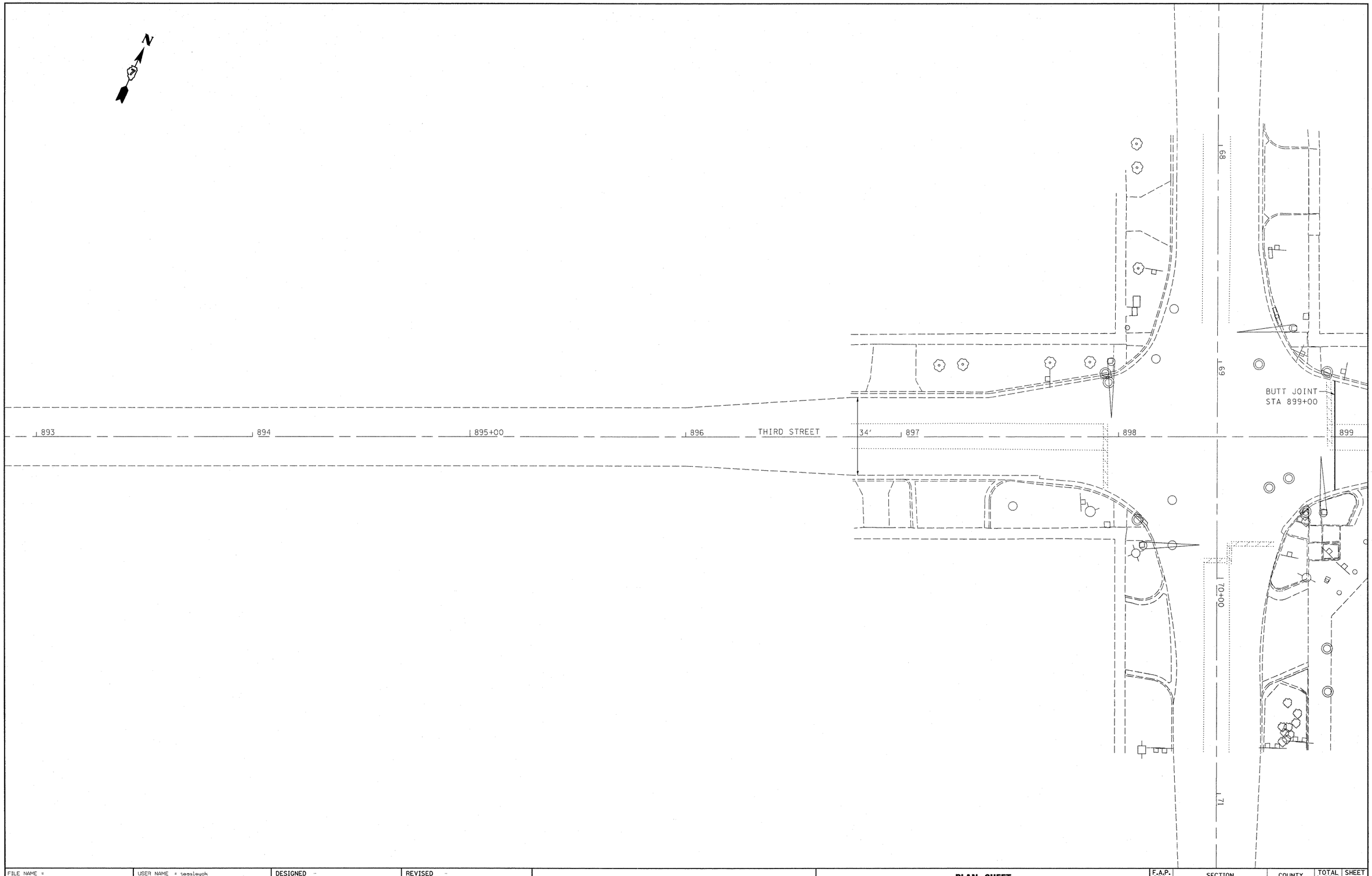
		DRAWN -	REVISED -			827	*	Wabash	44	23
	PLOT SCALE = 20.2000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/7/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2



FILE NAME = c:\pw_work\pwidot\teasleyck\d0177977\D774449-SHT-PLAN1.dgn	USER NAME = teasleyck	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/7/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
THIRD STREET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	*	Wabash	44	24
		CONTRACT NO. 74449		
		ILLINOIS FED. AID PROJECT		

*(103,104)RS-1, (12Z)RS-2

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF FULL SETS OF TRAFFIC SIGNALS AT TWO SEPARATE LOCATIONS AND ONE SET OF FLASHING BEACONS. THE FULL SETS ARE LOCATED AT THE INTERSECTIONS OF 9th STREET & WALNUT STREET (IL RTE 1) AND 3rd STREET & WALNUT STREET (IL RTE 1). THE FLASHING BEACONS ARE LOCATED AT THE INTERSECTION OF 5th STREET & WALNUT STREET (IL RTE 1). ALL INTERSECTIONS ARE IN THE CITY OF MT. CARMEL, WABASH 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 ENGINEER AT THE ILLINOIS DEPARTMENT OF TRANSPORTATON 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 LANE LINES NOT THE CENTER OF THE LANE.

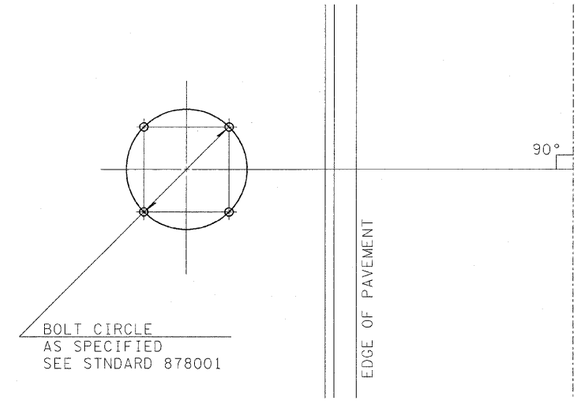
TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

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.

MT. CARMEL PUBLIC UTILITY
316 MARKET ST., P.O. BOX 220
MT. CARMEL, IL 62863
LARRY HORRALL-VP OPERATIONS
618-262-5151

CITY OF MT. CARMEL
219 MARKET ST.
MT. CARMEL, IL 62863
RUDY WITSMAN-ADMINISTRATIVE ASSISTANT
618-262-4822

DAVE EASTER-STREET SUPERINTENDENT

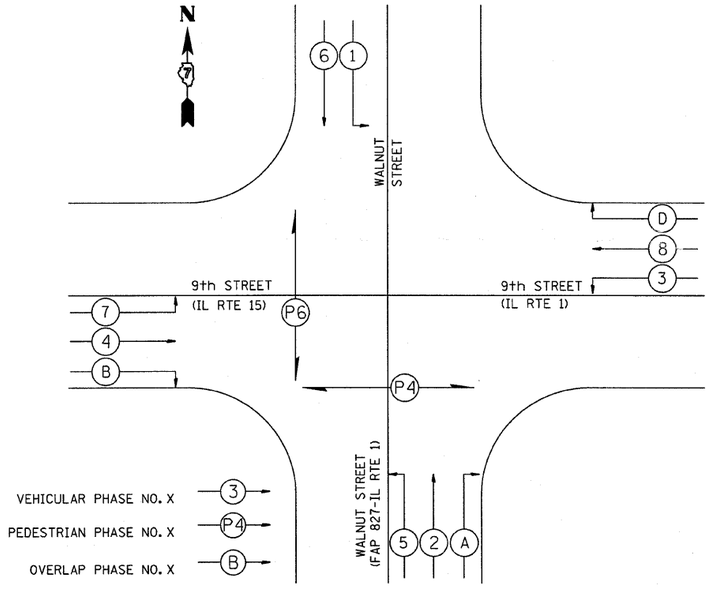


DETAIL OF MAST ARM FOUNDATION BOLT PATTERN

FILE NAME = c:\pw_work\pwidot\mcclellanla\d177977\D74449-sht-TS.dgn	USER NAME = mcclellanla	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES FOR TRAFFIC SIGN TRAFFIC SIGNAL DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			827	(103,104)RS-1,(12Z)RS-2	WABASH	44	25
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A5, A4,A6, B1,B4,B7, B2,B5,B8, C1,C4,C7, C2,C5,C8, D1,D4,D7, D2,D5,D8	6' X 6'	NORMAL	NO	0
A2	6' X 10'	NORMAL	NO	0
B9,B10,B11, C9,C10,D8	6' X 6'	EXTENDED	NO	0
B3,B6, C3,C6, D3,D6	6' X 6' 6' X 9' 6' X 10'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO
COMMON AMPLIFIERS:
(A1,A3,A5),(A2,A4,A6),
(B1,B4,B7),(B2,B5,B8),
(B3,B6),(B9),(B10),(B11),
(C1,C4,C7),(C2,C5,C8),
(C3,C6),(C9),(C10),
(D1,D4,D6),(D2,D5,D7),
(D3),(D8)
17 AMPLIFIERS PLUS 3 ADDITIONAL
TOTAL 20 AMPLIFIERS



PHASE DESIGNATION DIAGRAM

9th & WALNUT- BILL OF MATERIALS

ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	248.0
SIDEWALK REMOVAL	SQ FT	248.0
SERVICE INSTALLATION, TYPE A	EACH	1.0
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	223.0
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	600.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	167.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	331.0
UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	32.0
HANDHOLE	EACH	7.0
DOUBLE HANDHOLE	EACH	1.0
GULFBOX JUNCTION	EACH	3.0
TRENCH AND BACKFILL FOR ELECTRICAL WORK.	FOOT	822.0
LIGHT POLE, WOOD, 35 FOOT, CLASS 3	EACH	1.0
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	368.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1885.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3235.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	3500.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	157.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	716.0
TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	2.0
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	3.0
TRAFFIC SIGNAL POST, ALUMINUM 18 FT.	EACH	2.0
STEEL MAST ARM ASSEMBLY AND POLE 38 FT	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	2.0
CONCRETE FOUNDATION, TYPE A	FOOT	18.0
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	59.5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	7.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	24.0
INDUCTIVE LOOP DETECTOR	EACH	20.0
DETECTOR LOOP, TYPE 1	FOOT	1900.0
PEDESTRIAN PUSH-BUTTON	EACH	4.0
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
REMOVE AND RE-ERECT EXISTING SIGN	EACH	4.0

248 Sq Ft Sidewalk Removal
248 Sq Ft Portland Cement Concrete Sidewalk-4"

The existing signal pole foundation located in the northwest quadrant of the intersection at 9th & Walnut Street, will be used for the proposed signal post at Sta. 200+51 41' Lt.

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

The Traffic Signal Posts located in the SW Quad (Sta 39+98, 73' Rt) and in the NE Quad (Sta 39+01, 43' Rt) shall be field located as near the Stop Bars as possible.

There is a box culvert that needs to be located prior to drilling of foundations.

North Leg Details
See Sheet #30

East Leg Details
See Sheet #31

West Leg Details
See Sheet #29

South Leg Details
See Sheet #32

For Island Removal
See Sheet # 10.

For Island Removal
See Sheet # 10.

Detector Loops & Pavement Markings omitted for Clarity See Sheets # 29-32 for Details

Remove

50'-2" PVC

29'-2" PVC

85'-4" PVC

4'-1½" PVC

Sta 200+66
35' Rt
Conc. Fdn, Ty E
36" Dia. 15' 6" Lg.
42' M.A.

Sta 39+01
43' Rt
Conc. Fdn, Ty A
18' Post

Sta 38+71
39' Rt

Sta 200+56
41' Rt

Sta 916+30
38' Lt
Conc. Fdn, Ty A
12' Post

16'-1½" PVC

Sta 916+18
38' Lt
Conc. Fdn, Ty E
36" Dia. 15' 6" Lg.
38' M.A.

44'-2" PVC

Sta 916+14
38' Lt

3'-2" PVC

77'-4" PVC

Sta 915+91
38' Rt

31'-1½" PVC

47'-4" PVC

Sta 39+98
73' Rt
Conc. Fdn, Ty A
16' Post

Sta 40+08
64' Rt
Conc. Fdn, Ty A
12' Post

8'-1½" PVC

107'-4" PVC

Sta 40+17
64' Rt

32'-2" PVC

Boring #4

Sta 40+47
49' Rt
Conc. Fdn, Ty E
36" Dia. 13' Lg.
42' M.A.

Boring #3

9'-2" PVC

Sta 38+66
40' Rt
Conc. Fdn, Ty E
36" Dia. 15' 6" Lg.
40' M.A.

Sta 38+72
48' Lt

13'-1½" PVC

Sta 40+07
54' Lt
Conc. Fdn, Ty A
18' Post

Sta 40+12
66' Lt

15'-4" PVC

Sta 40+16
68' Lt

28'-5" PVC

8'-1"1/2" PVC

22'-5" PVC

Sta 40+25
40' Lt
Conc. Fdn, Ty A
16' Post

Sta 40+34
44' Lt

42' M.A.

38' M.A.

40' M.A.

11.4'

12'

11.5'

11.8'

℄ 9th Street

℄ Walnut Street

Sta 916+93.75

Sta 200+00.00

Sta 39+49.52

N

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		DRAWN -	REVISED -			827	(103,104)RS-1,(12Z)RS-2	WABASH	44	27
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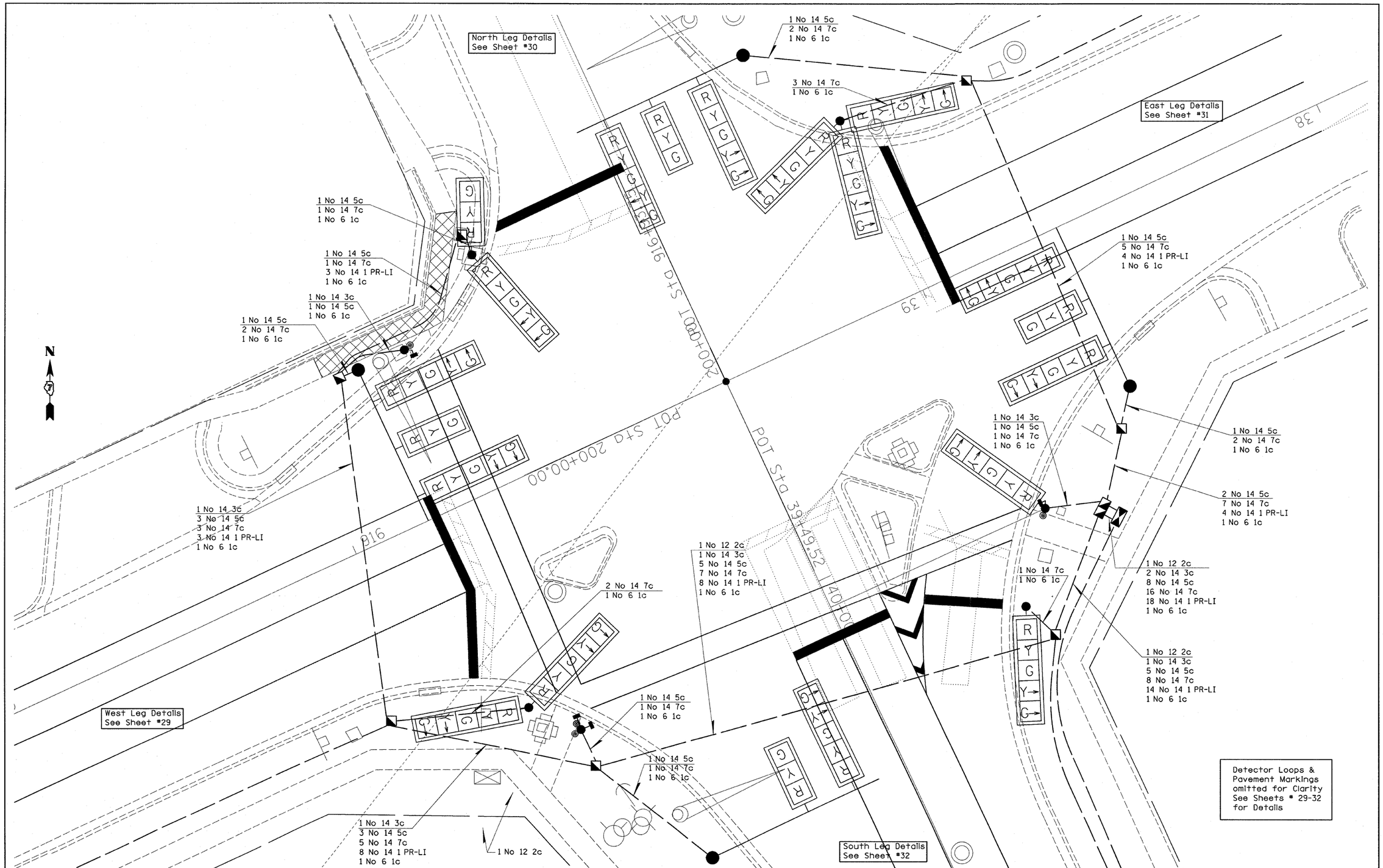
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



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c:\pw_work\pwidot\mcclellanla\d0177977\D774449-sht-TS.dgn		DRAWN -	REVISED -			827	(103,104)RS-1,(12Z)RS-2	WABASH	44	28
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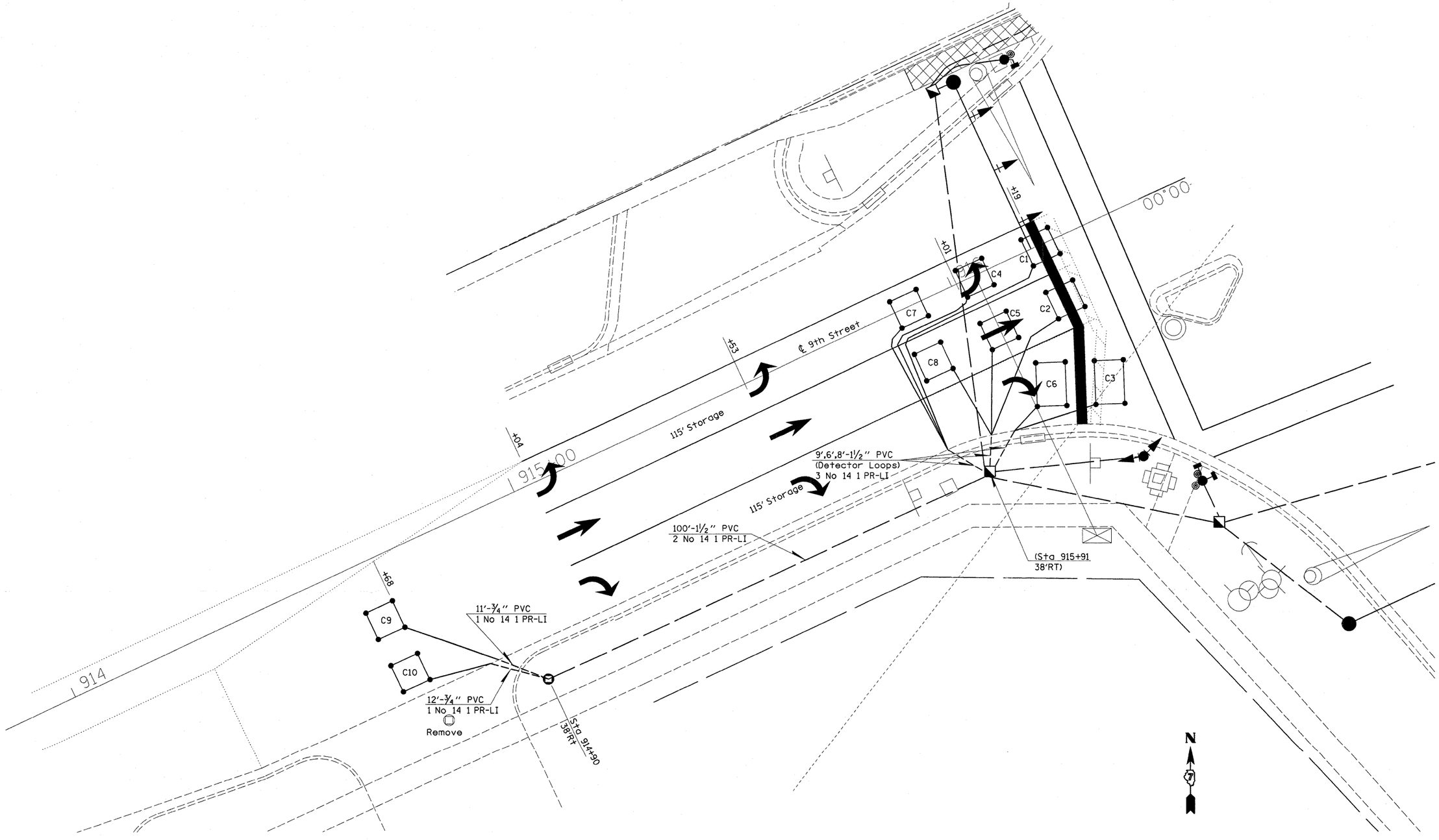
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



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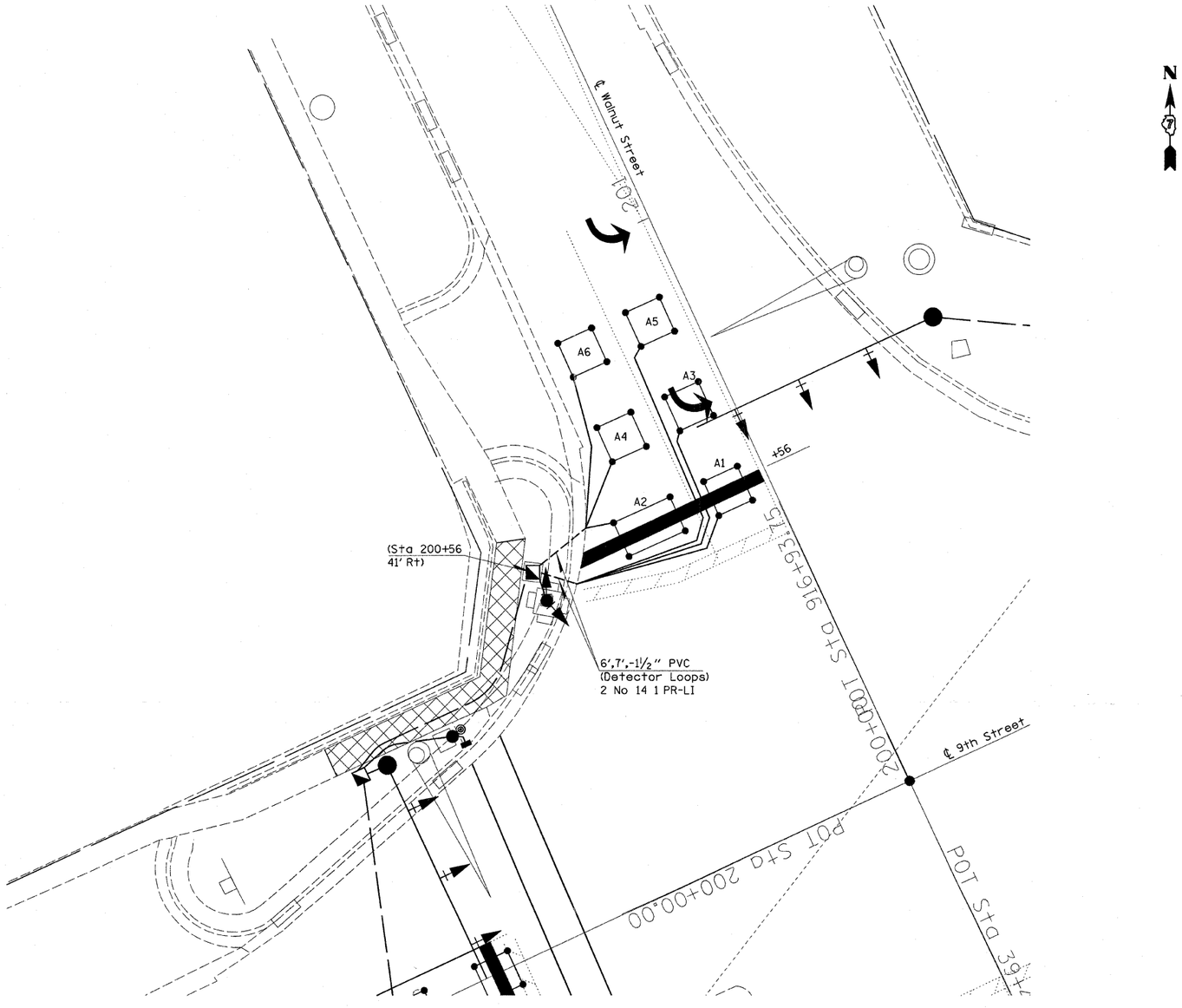
c:\pw_work\pwidot\mcclellanla\d0177977\D74449-sht-TS.dgn		DRAWN -	REVISED -			827	(103,104)RS-1,(12Z)RS-2	WABASH	44	29
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 74449				
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				



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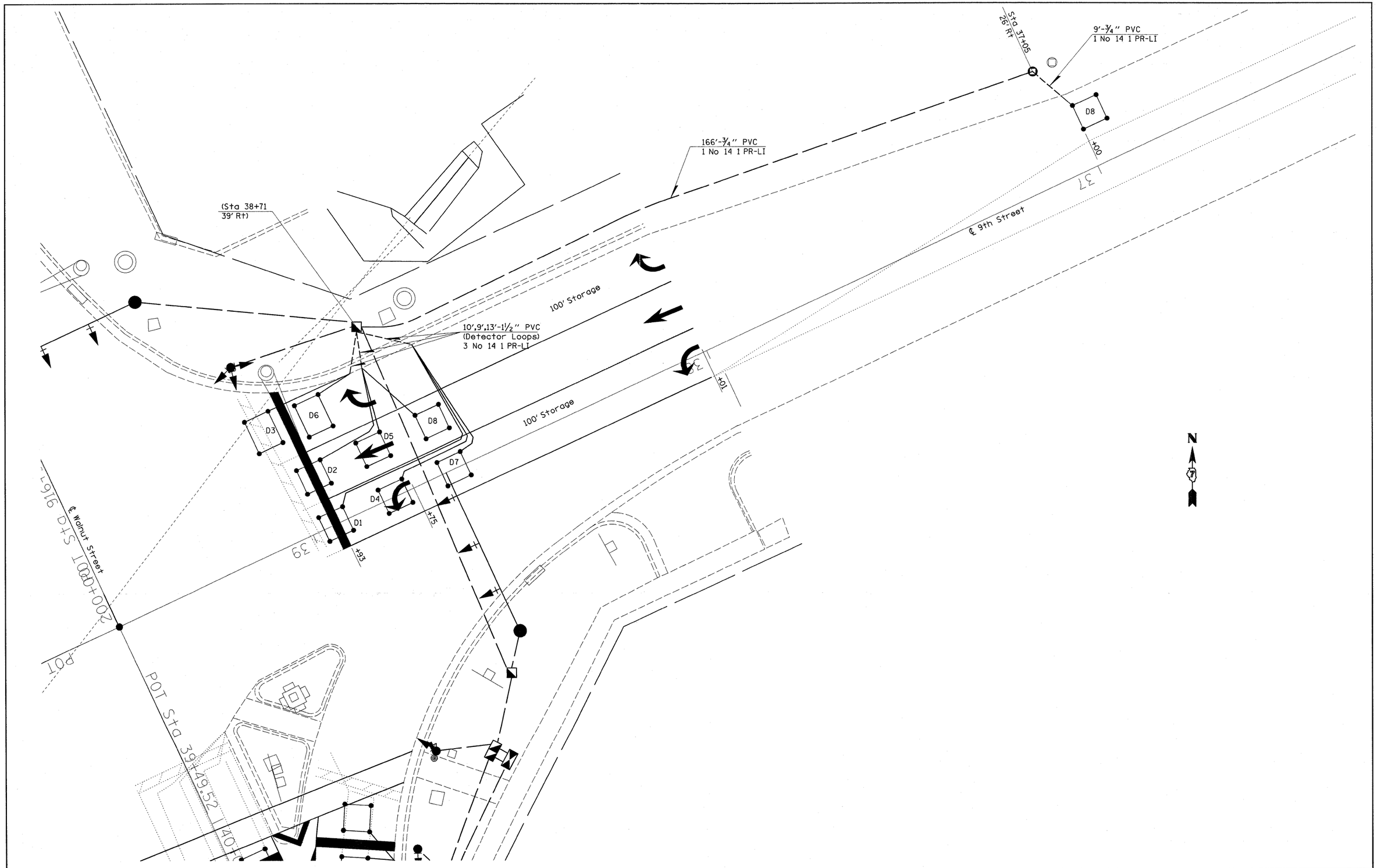
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -			827	(103,104)RS-1,(12Z)RS-2	WABASH	44	30
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 74449		
								ILLINOIS FED. AID PROJECT		



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		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/6/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

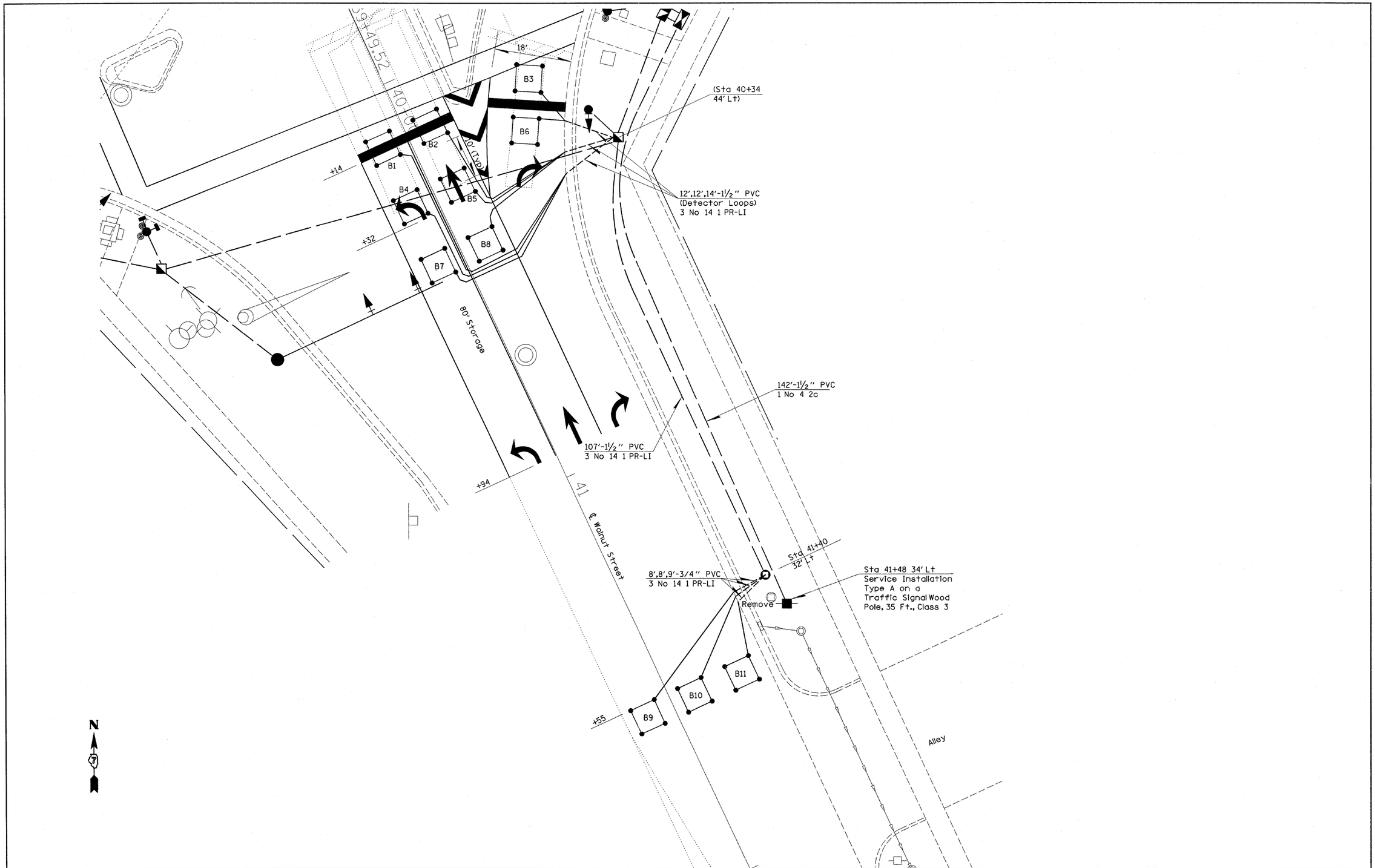
EAST LEG-SIGNAL, CABLE & DETECTOR LOOP LAYOUT
9th ST & WALNUT ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-1,(12Z)RS-2	WABASH	44	31

CONTRACT NO. 74449

ILLINOIS FED. AID PROJECT



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		DRAWN -	REVISED -		
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-1,(12Z)RS-2	WABASH	44	32
		CONTRACT NO. 74449		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 5/31/11

ROUTE FAP 827 (IL 1) DESCRIPTION Traffic Signal Foundations - Mt Carmel, IL LOGGED BY E. Sandschafer

SECTION (103,104)RS-1,(12Z)RS-2 LOCATION E 1/2, SEC. 20, TWP. 1 S, RNG. 12 W, 3 PM

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

STRUCT. NO. N/A
Station 093-0000 soil 2011

BORING NO. 3 SE 9th & Walnut
Station 39+93
Offset 80.0ft E of IL 1 CL
Ground Surface Elev. 428.07 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter ft
Upon Completion 421.1 ft
After 24 Hrs. 424.2 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3" Topsoil	427.77				
Very soft to medium,damp, tan, SILTY LOAM.			1		
			2	0.1	25
			3	B	
		-5	1		
			1	0.5	26
			2	B	
			1		
			2	0.6	20
			2	B	
	418.07	-10	2		
Very stiff, damp, rust/gray/black, CLAY LOAM.			3	2.2	19
			5	B	
	415.57		3		
Soft to very dense, rust colored, SANDY LOAM. Possibly very soft, Sandstone.			19	0.5	18
			36	S	
		-15	30		
			50/5"		17
			50/4"		
	408.57	-20	16		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium, tan, fluffy, SAND. 3% passing #200 sieve. (continued)	407.27		5		15
			9		
Gray, SILTY CLAY SHALE.					
	403.57				
Very dense, tan, moist, soft, SANDSTONE.	403.17	-25	50/3"		18
			50/1"		
Extent of exploration.			50/1"		
Benchmark: Traverse Point in SE corner of 9th & Walnut = 427.91' elevation. Provided by Program Development.		-30			
		-35			
		-40			

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)

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\WABASH CO (093)\093-0000 SOIL 2011 TRAF SIGNALS.GPJ Data Template D6TEMPLT.GDT Date Printed 11/06/08
Latitude W 87 deg 46.043 min Longitude N 38 deg 24.876 min Datum Job Number

Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 5/31/11

ROUTE FAP 827 (IL 1) DESCRIPTION Traffic Signal Foundations - Mt Carmel, IL LOGGED BY E. Sandschafer

SECTION (103,104)RS-1,(12Z)RS-2 LOCATION E 1/2, SEC. 20, TWP. 1 S, RNG. 12 W, 3 PM

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

STRUCT. NO. N/A
Station 093-0000 soil 2011

BORING NO. 4 SW 9th & Walnut
Station 40+46
Offset 49.0ft W of IL 1 CL
Ground Surface Elev. 427.92 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter ft
Upon Completion 419.9 ft
After 24 Hrs. 422.3 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3" topsoil.	427.62				
Loose, damp, black, SANDY LOAM w/ many Cinders.			9		
			7		13
			9		
	423.42	-5	4		
Very stiff, damp, rusty brown, CLAY LOAM.			5	2.3	24
			7	B	
			5		
			10	1.2	12
			30	S	
	418.42	-10	45		
Very dense, damp, red, SANDY LOAM to SANDSTONE.			50/4"		18
			50/2"		
			36		
			50/2"		17
			50/1"		
		-15	50/5"		
Brown.			50/1"	1.9	16
			50/1"	S	
			50/4"		
Brown.			50/1"	1.4	15
			50/1"	S	
	407.92	-20	50/4"		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very dense, damp, red, SANDY LOAM to SANDSTONE.			50/2"	1.4	17
			50/3"	S	
			50/4"		
Brown.			50/3"	0.4	18
			50/3"	S	
Tan.					
	403.02	-25	50/3"		19
Extent of exploration.			50/1"		
			50/1"		
Benchmark: Traverse Point in SE corner of 9th & Walnut = 427.91' elevation. Provided by Program Development.		-30			
		-35			
		-40			

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
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File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\WABASH CO (093)\093-0000 SOIL 2011 TRAF SIGNALS.GPJ Data Template D6TEMPLT.GDT Date Printed 11/06/08
Latitude W 87 deg 46.062 min Longitude N 38 deg 24.859 min Datum Job Number

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		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/6/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

9th & WALNUT STREET
BORING LOGS #3 & #4

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-1,(12Z)RS-2	WABASH	44	33

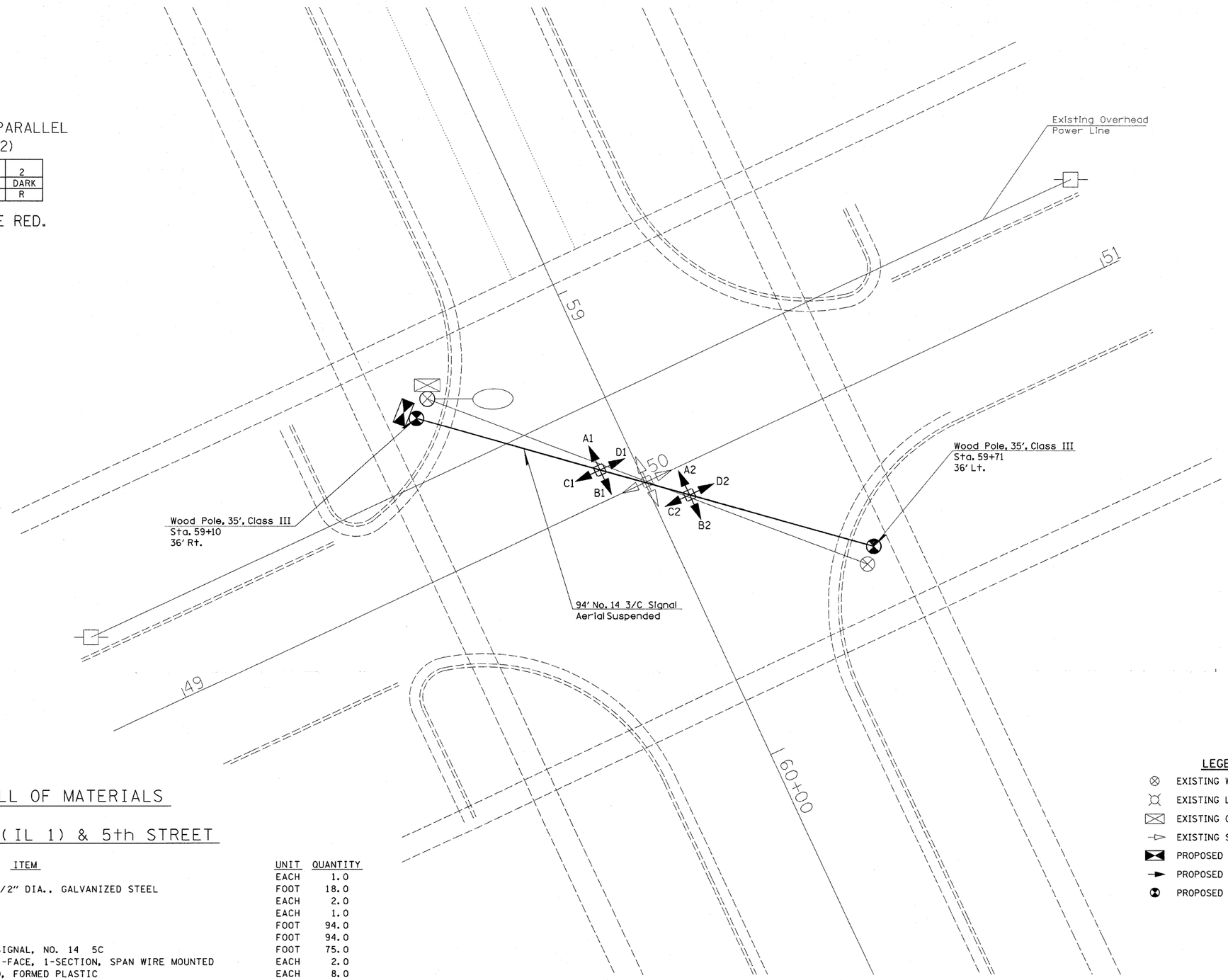
CONTRACT NO. 74449

ILLINOIS FED. AID PROJECT

SIGNAL HEADS WIRED PARALLEL
(A1,B1,A2,B2) (C1,D1,C2,D2)

INTERVAL	1	2
SIGNAL HEAD A1, B1, A2, B2	R	DARK
SIGNAL HEAD C1, D1, C2, D2	DARK	R

ALL SIGNAL HEADS ARE RED.



BILL OF MATERIALS

FAP 827 (IL 1) & 5th STREET

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A	EACH	1.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	18.0
LIGHT POLE, WOOD, 35 FT., CLASS 3	EACH	2.0
FLASHER CONTROLLER	EACH	1.0
SPAN WIRE	FOOT	94.0
TETHER WIRE	FOOT	94.0
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	75.0
SIGNAL HEAD, POLYCARBONATE, LED, 4-FACE, 1-SECTION, SPAN WIRE MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8.0
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1.0

LEGEND

- EXISTING WOOD POLE
- EXISTING LIGHT POLE
- EXISTING CONTROLLER & CABINET
- EXISTING SIGNAL HEAD
- PROPOSED FLASHER CONTROLLER
- PROPOSED SIGNAL HEAD
- PROPOSED WOOD POLE

FILE NAME = c:\pw_work\pwidot\mcclellanle\d0177977\D074449-sht-TS.dgn	USER NAME = mcclellanle	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/6/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

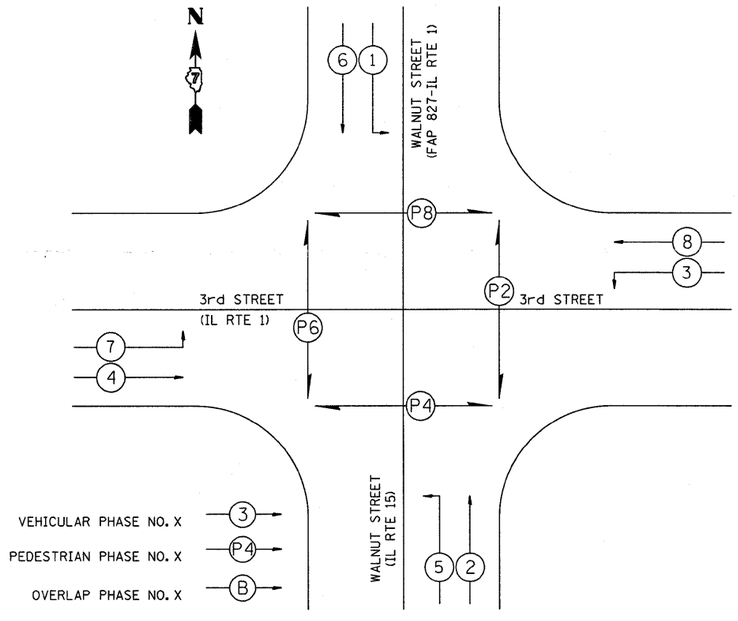
FLASHING BEACON LAYOUT
5th ST & WALNUT ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-2,(122)RS-2	WABASH	44	34
		CONTRACT NO. 74449		
		ILLINOIS	FED. AID PROJECT	

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A5, A2,A4,A6, B1,B3,B5, B2,B4,B6, C1,C3,C5, C2,C4,C6, D1,D3,D5, D2,D4,D6	6' X 6'	NORMAL	NO	0
A7,B7,C7,D7	6' X 6'	EXTENDED	NO	0

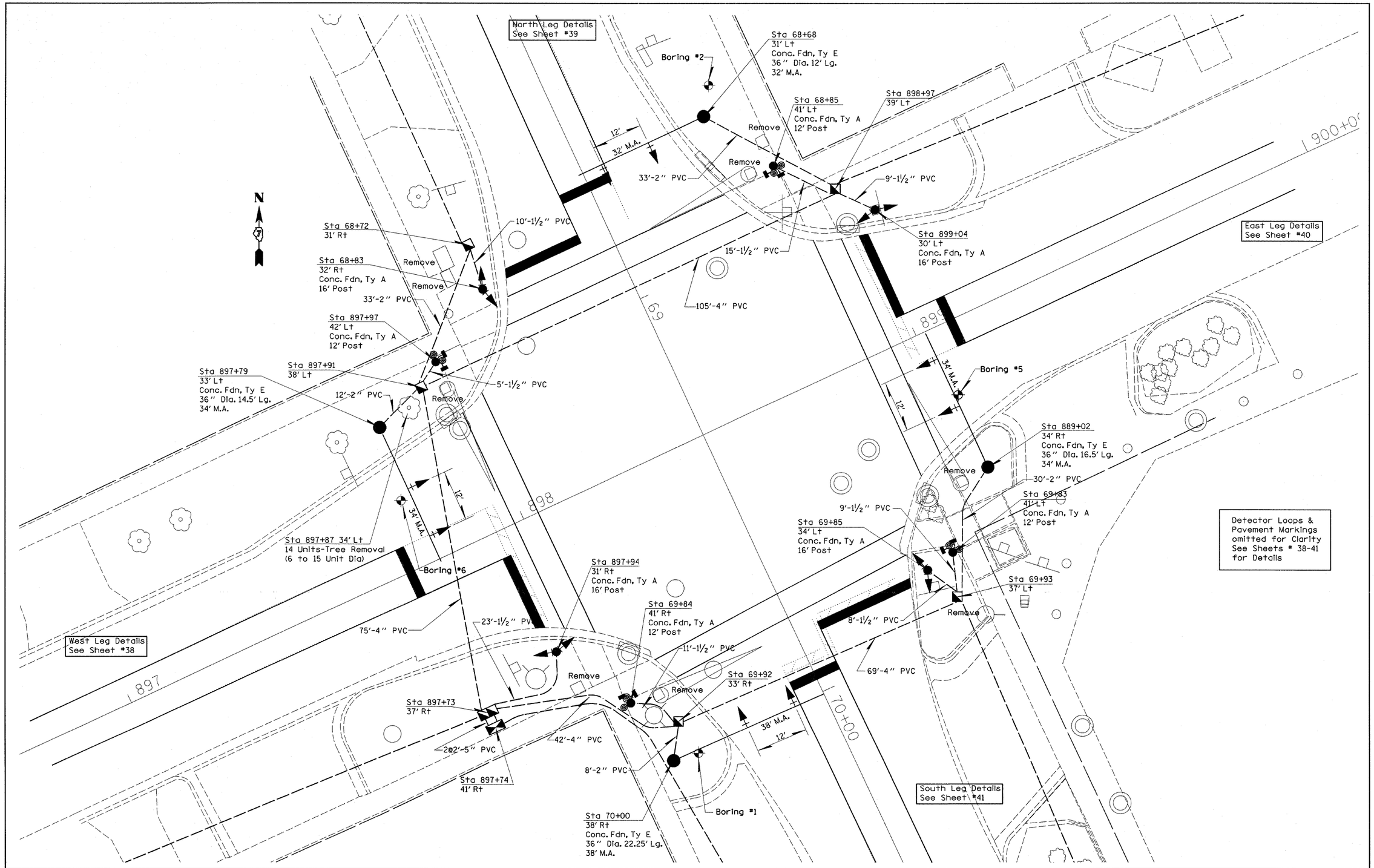
THE FOLLOWING CABLES SHALL BE WIRED TO
COMMON AMPLIFIERS:
(A1,A3,A5),(A2,A4,A6),
(B1,B3,B5),(B2,B4,B6),
(C1,C3,C5),(C2,C4,C6),
(D1,D3,D5),(D2,D4,D6),
(A7),(B7),(C7),(D7)
12 AMPLIFIERS PLUS 1 ADDITIONAL
TOTAL 14 AMPLIFIERS



PHASE DESIGNATION DIAGRAM

3rd & WALNUT - BILL OF MATERIALS

ITEM	UNIT	QUANTITY
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	14.0
SERVICE INSTALLATION, TYPE A	EACH	1.0
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	813.0
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	355.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	116.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	291.0
UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	4.0
HANDHOLE	EACH	5.0
DOUBLE HANDHOLE	EACH	1.0
GULFBOX JUNCTION	EACH	4.0
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	691.0
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1987.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2035.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	2492.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	137.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	700.0
TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	4.0
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	4.0
STEEL MAST ARM ASSEMBLY AND POLE 32 FT	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	2.0
STEEL MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	24.0
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	65.25
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	24.0
INDUCTIVE LOOP DETECTOR	EACH	14.0
DETECTOR LOOP, TYPE 1	FOOT	1256.0
PEDESTRIAN PUSH-BUTTON	EACH	8.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING HANDHOLE	EACH	4.0
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0
REMOVE AND RE-ERECT EXISTING SIGN	EACH	4.0



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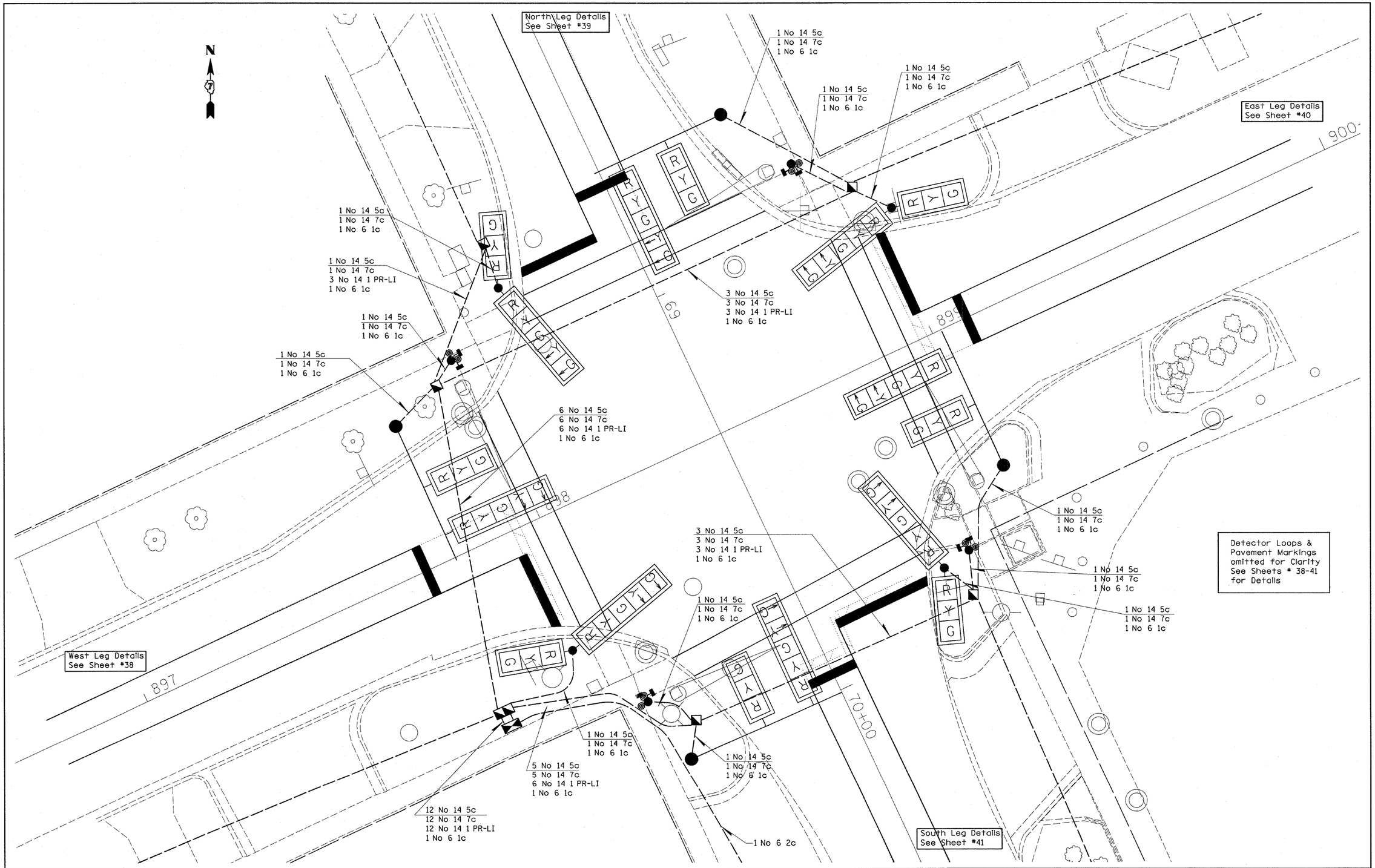
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



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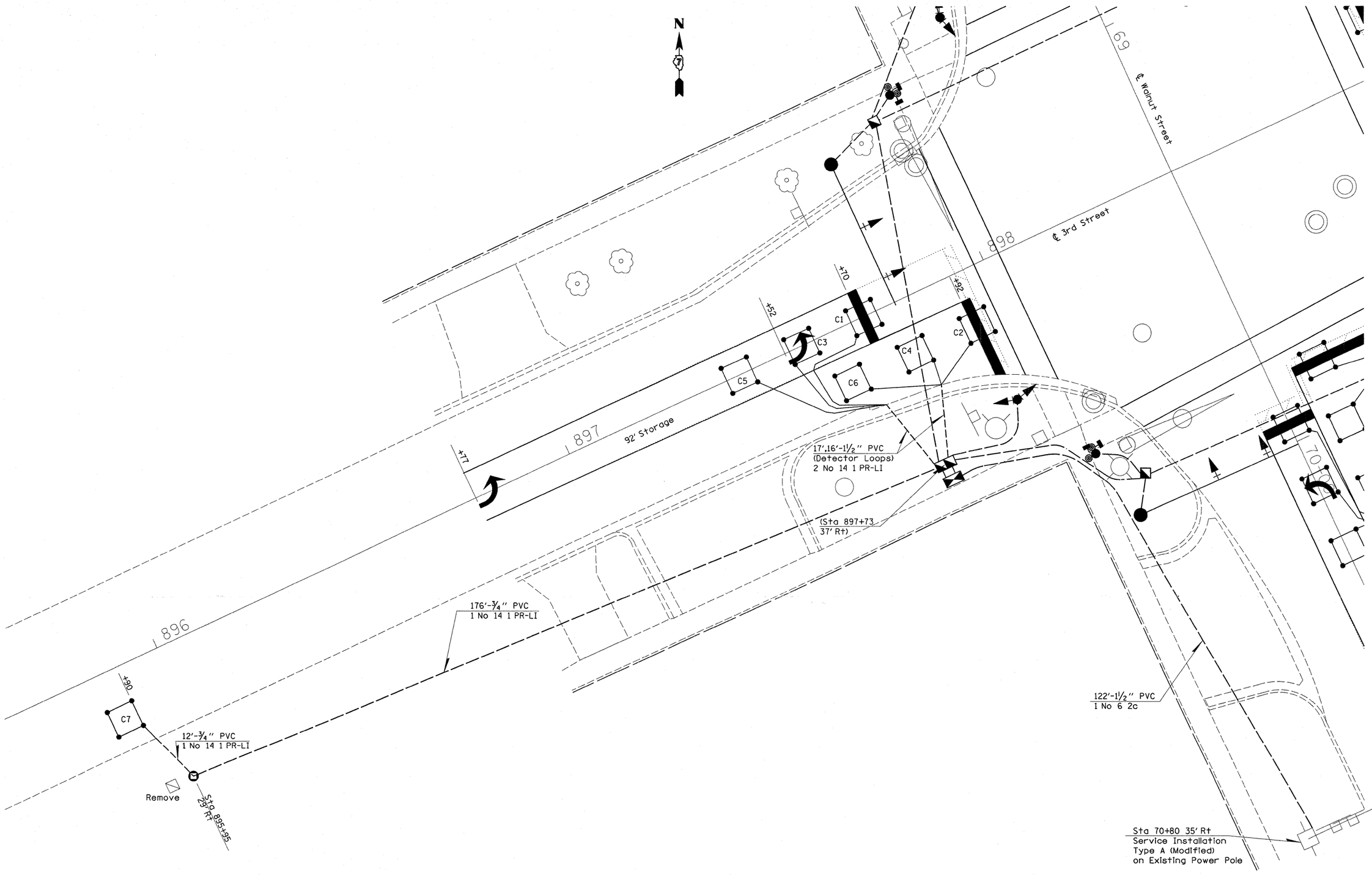
		DRAWN -	REVISED -			827	(103,104)RS-2,(122)RS-2	WABASH	44	37
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



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	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449	
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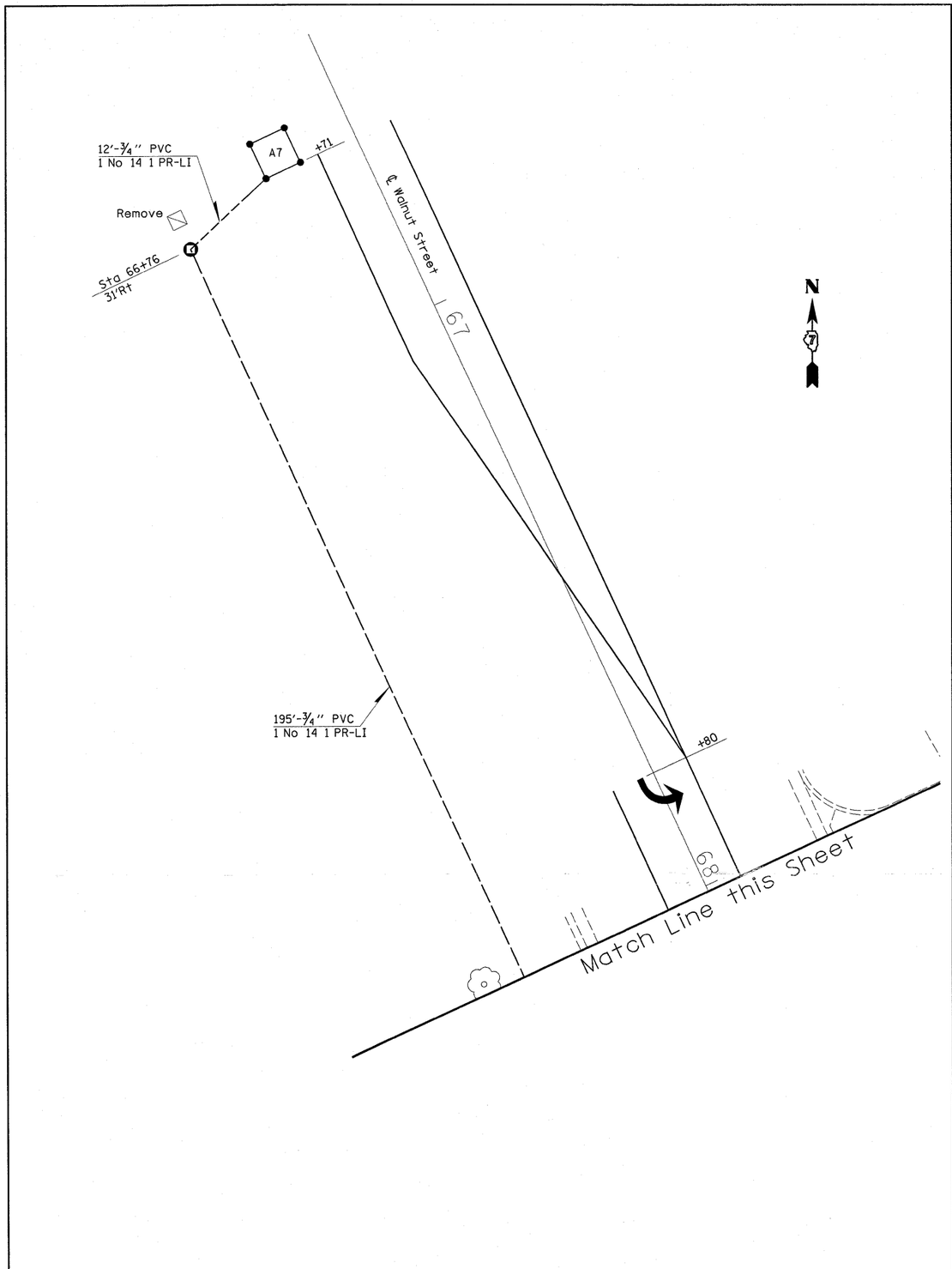

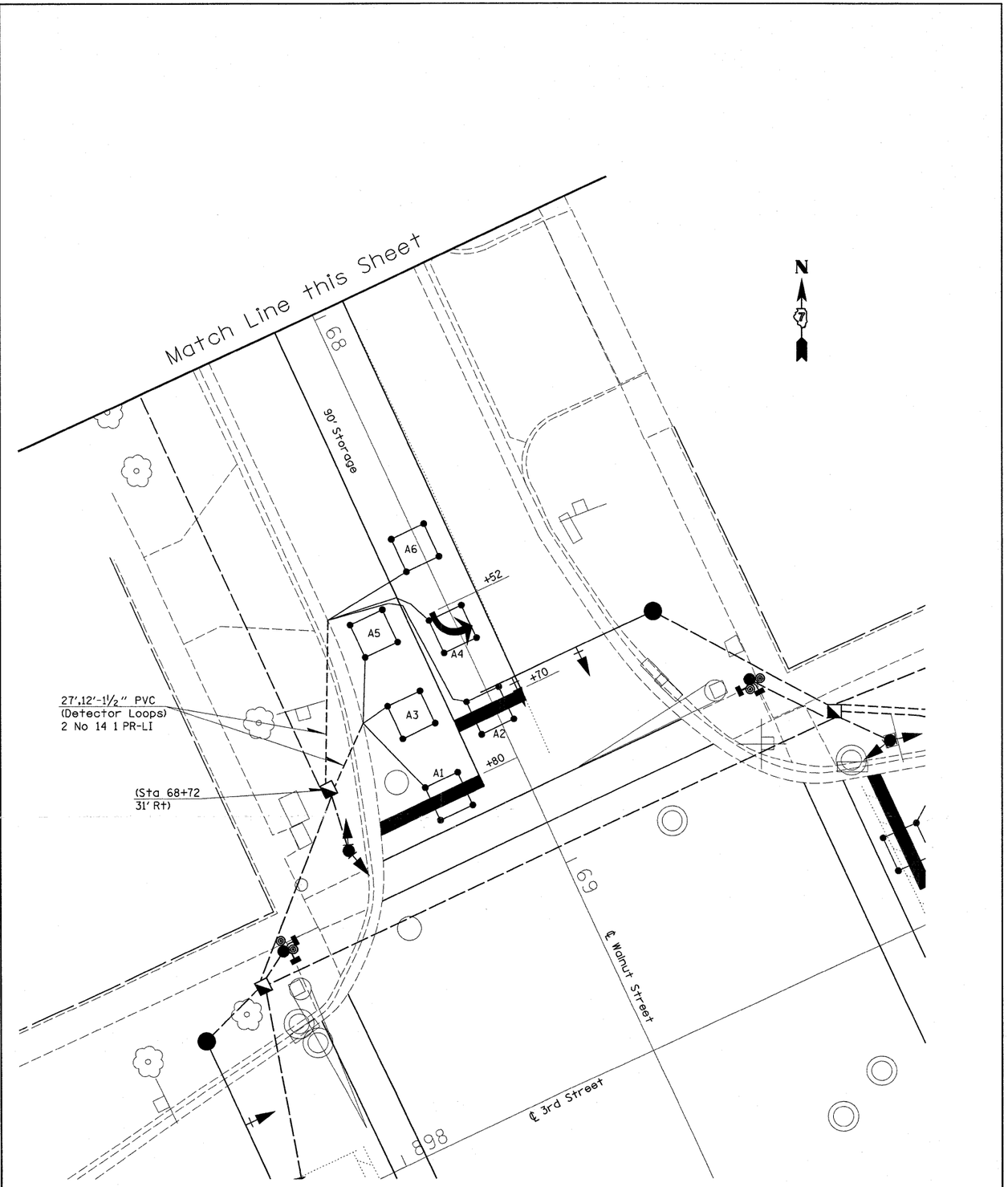

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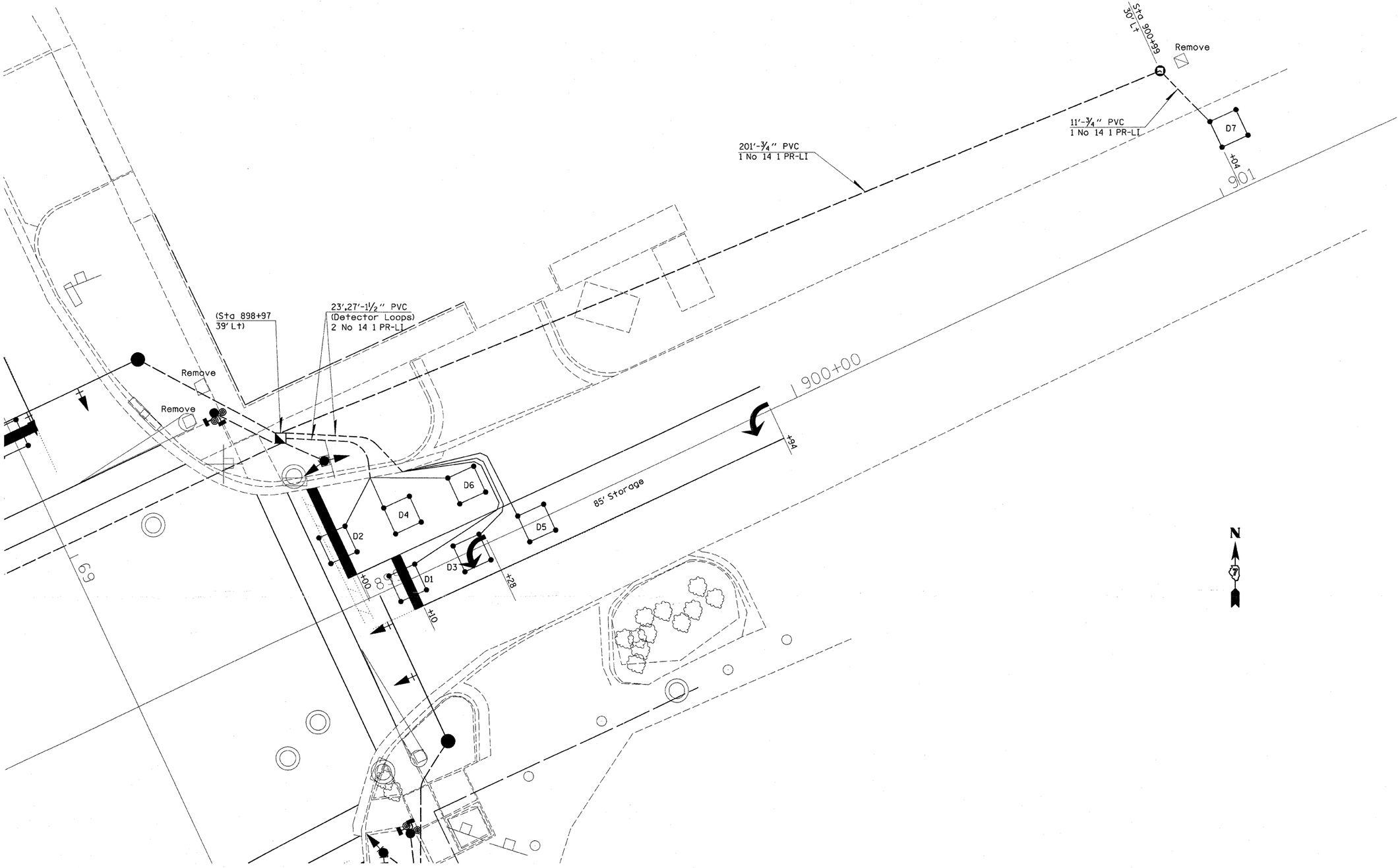
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/6/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH LEG-SIGNAL, CABLE & DETECTOR LOOP LAYOUT
3rd ST & WALNUT ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-2,(12Z)RS-2	WABASH	44	39
		CONTRACT NO. 74449		
		ILLINOIS FED. AID PROJECT		



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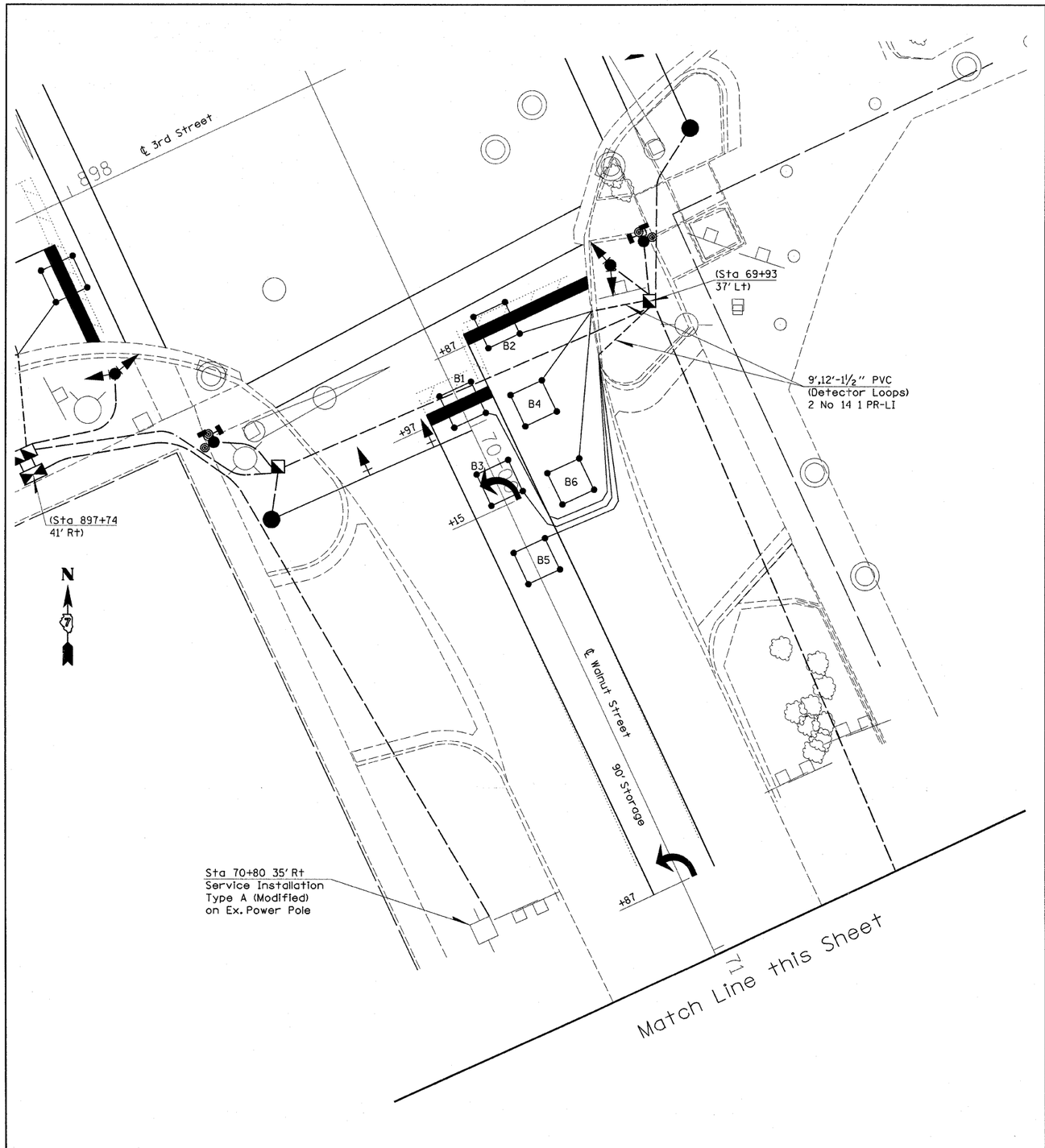
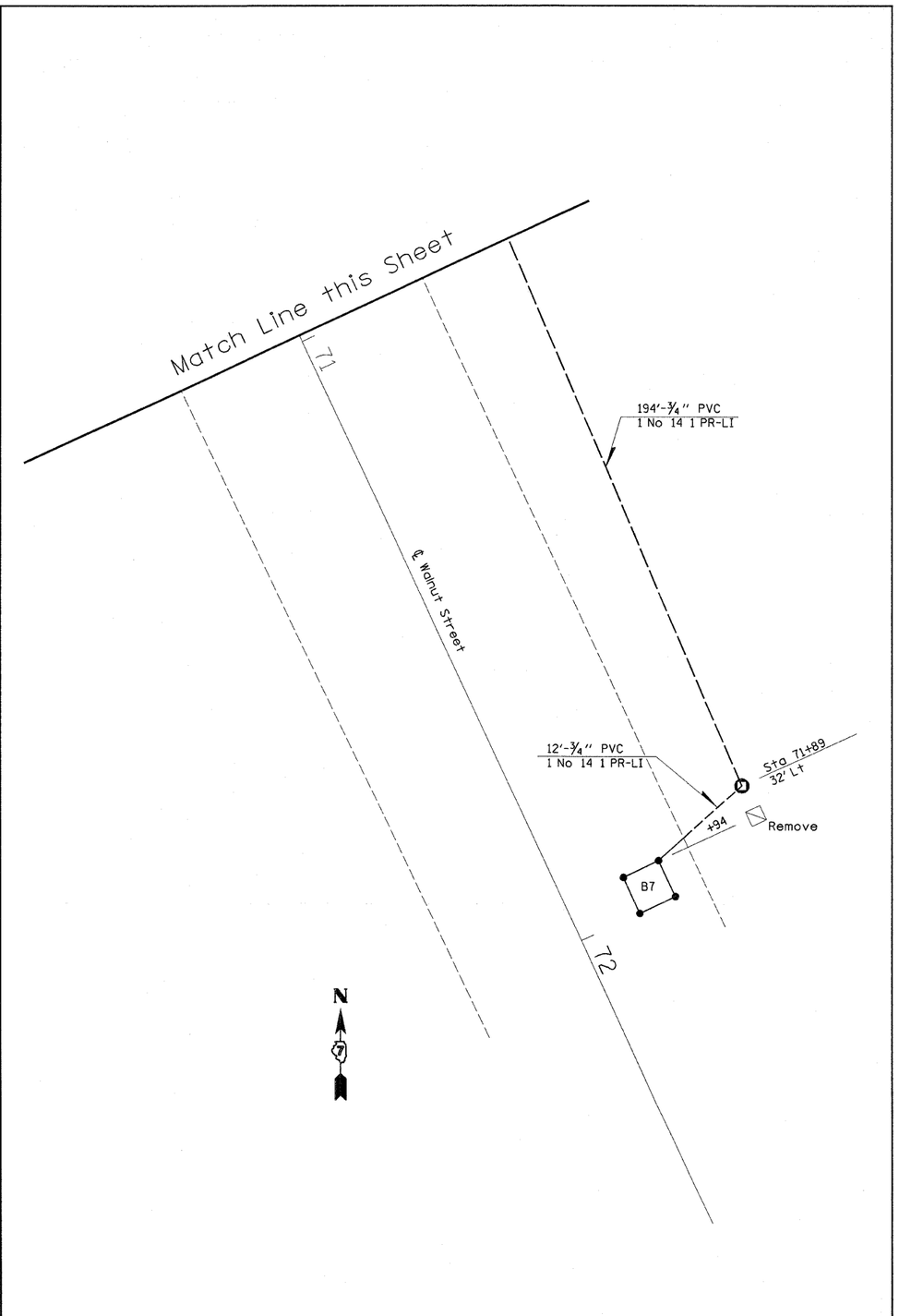
		DRAWN -	REVISED -			827	(103,104)RS-1,(12Z)RS-2	WABASH	44	40
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74449		
	PLOT DATE = 9/6/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		





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	PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -			827	(103,104)RS-2,(122)RS-2	WABASH	44	41
	PLOT DATE = 9/6/2011	CHECKED -	REVISED -					CONTRACT NO. 74449		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Date 5/24/11

ROUTE FAP 827 (IL 1) DESCRIPTION Traffic Signal Foundations - Mt Carmel, IL LOGGED BY E. Sandschafer

SECTION (103,104)RS-1,(12Z)RS-2 LOCATION NE 1/4, SEC. 29, TWP. 1 S, RNG. 12 W, 3 PM

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

STRUCT. NO. N/A
Station 093-0000 soil 2011

BORING NO. 1 SW 3rd & Walnut
Station 70+01
Offset 32.0ft W of Walnut St CL
Ground Surface Elev. 425.31 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter ft
Upon Completion 413.8 ft
After 24 Hrs. 421.3 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Topsoil.	425.01				
Soft to medium, damp, gray, SILTY CLAY LOAM.					
			2		
			2	0.5	24
			2	B	
	420.81				
Very soft, very damp, gray mottled brown, SILTY LOAM w/ strong petroleum odor.		-5	0		
			0	0.1	28
			1	B	
			1		
			1	0.2	25
			2	B	
		-10	1		
			1	0.2	34
			2	B	
	413.31				
Stiff to medium, damp, brown, SILTY LOAM, highly organic w/ many wood pieces.			0		
			1	1.2	45
			2	S	
		-15	0		
			1	0.8	53
			1	S	
	408.31				
Soft, damp, gray, SILTY LOAM, highly organic.			0		
			1	0.3	33
			2	B	
	405.81				
		-20	0		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium to very stiff, damp, gray, CLAY LOAM. (continued)			1	0.8	20
			1	B	
			1		
			2	1.6	18
			2	B	
		-25	1		
			3	2.8	21
			5	B	
			4		
			6	2.2	14
			10	B	
	395.81				
Very stiff, damp, gray, SANDY CLAY.		-30	5		
			10	3.8	15
			23	S	
	390.81				
Very dense, moist, gray, soft, SANDSTONE.		-35	50		
			50/5"		14
	389.61		50/3"		
Extent of exploration.					
Benchmark: Traverse Point in SW corner of 3rd & Walnut = 425.35' elevation. Provided by Program Development.		-40			

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)

File Name S:\NEW GEOTECHNICAL\GNTDATA\PROJECTS\WABASH CO (093)\093-0000 SOIL 2011 TRAF SIGNALS.GPJ Data Template D6TEMPLIT.GDT Date Printed 11/06/08
Latitude N 87 deg 45.803 min Longitude N 38 deg 24.417 min Datum Job Number

Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Date 5/24/11

ROUTE FAP 827 (IL 1) DESCRIPTION Traffic Signal Foundations - Mt Carmel, IL LOGGED BY E. Sandschafer

SECTION (103,104)RS-1,(12Z)RS-2 LOCATION NE 1/4, SEC. 29, TWP. 1 S, RNG. 12 W, 3 PM

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

STRUCT. NO. N/A
Station 093-0000 soil 2011

BORING NO. 2 NE 3rd & Walnut
Station 68+62
Offset 35.0ft E of IL 1 CL
Ground Surface Elev. 425.15 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter ft
Upon Completion 419.2 ft
After 24 Hrs. 419.7 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Topsoil.	424.85				
Medium, damp, brown, SILTY LOAM.					
			2		
			1	0.6	31
			1	B	
	420.65				
Stiff, damp, gray, CLAY.		-5	1		
			2	1.2	25
			2	B	
			1		
			1	1.4	25
			3	B	
	415.65				
Medium to soft, damp, gray mottled brown, SILTY LOAM.		-10	0		
			1	0.4	31
			1	B	
			1		
			0	0.4	29
			1	B	
		-15	0		
Gray w/ organics.			0	0.1	37
			1	B	
			0		
			0	0.3	21
			1	B	
	405.65				
		-20	0		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium to very stiff, damp, gray, SILTY CLAY LOAM. (continued)			1	0.6	20
			1	B	
			1		
			0	1.4	18
			2	B	
		-25	4		
			6	2.0	14
			8	B	
			5		
	397.65				
Medium, damp, reddish brown, SANDY LOAM, high Sand content.			8	0.5	17
			17	S	
	395.65				
Brown, damp, fluffy, SAND. 2% passing #200 sieve.		-30	6		
			22	0.5	16
			30	S	
	392.65				
Very dense, moist, brown, soft, SANDSTONE.					
	390.25	-35	50/3"		24
Extent of exploration.			50/1"		
			50/1"		
Benchmark: Traverse Point in SW corner of 3rd & Walnut = 425.35' elevation. Provided by Program Development.		-40			

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
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File Name S:\NEW GEOTECHNICAL\GNTDATA\PROJECTS\WABASH CO (093)\093-0000 SOIL 2011 TRAF SIGNALS.GPJ Data Template D6TEMPLIT.GDT Date Printed 11/06/08
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		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/6/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

3rd & WALNUT STREET
BORING LOGS #1 & #2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-1,(12Z)RS-2	WABASH	44	42
		CONTRACT NO. 74449		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 8/5/11

ROUTE FAP 827 (IL 1) DESCRIPTION Traffic Signal Foundations - Mt Carmel, IL LOGGED BY E. Sandschafer

SECTION (103,104)RS-1,(12Z)RS-2 LOCATION NE 1/4, SEC. 29, TWP. 1 S, RNG. 12 W, 3 PM

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

STRUCT. NO. N/A
Station 093-0000 soil 2011

BORING NO. 5 SE 3rd & Walnut
Station 69+51
Offset 57.0ft E of Walnut St CL
Ground Surface Elev. 424.41 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 394.9 ft
Upon Completion 420.4 ft
After 24 Hrs. 420.9 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3.75" asphalt on 9" concrete pavement.	423.31				
Medium, damp, dark gray, SILTY CLAY.			1		
			1	0.8	26
			1	B	
	419.91				
Medium to stiff, damp, gray marbled brown, CLAY.		-5	1		
			2	1.0	27
			2	B	
	417.41				
Soft to medium, damp, gray marbled brown, SILTY CLAY LOAM.			1		
			1	0.5	27
			1	B	
	414.91				
Very soft, very damp, reddish brown/gray/brown, SILTY LOAM.		-10	0		
			1	0.1	37
			1	B	
			0		
			1	0.5	37
			1	B	
		-15	0		
			1	0.4	28
			1	B	
	407.41				
Soft, damp, gray, SILTY CLAY.			1		
			1	0.3	25
			1	B	
	404.91				
Medium, damp, gray, CLAY LOAM.		-20	1		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium, damp, gray, CLAY LOAM. (continued)			2	0.8	24
			2	B	
	402.41				
Stiff, damp, gray, SANDY LOAM.			18		
			18	1.2	16
			10	S	
	399.91				
Soft to medium, damp, gray, SANDY LOAM.		-25	14		
			20	0.5	18
			36	S	
	397.41				
Very dense, wet, brown, fine grained, SAND. 3% passing #200 sieve.			34		
			50/5"		23
			50/3"		
9% passing #200 sieve.	394.21	-30	50/4"		
Extent of exploration.			50/2"		21
			50/2"		
Benchmark: Traverse Point in SW corner of 3rd & Walnut = 425.35' elevation. Provided by Program Development.		-35			
		-40			

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)

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\WABASH CO (093)\093-0000 SOIL 2011 TRAF SIGNALS.GPJ Data Template DGTEMPLIT.GDT Date Printed 11/08/09
Latitude N 87 deg 45.791 min Longitude W 38 deg 24.431 min Datum Job Number

Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 8/4/11

ROUTE FAP 827 (IL 1) DESCRIPTION Traffic Signal Foundations - Mt Carmel, IL LOGGED BY E. Sandschafer

SECTION (103,104)RS-1,(12Z)RS-2 LOCATION NE 1/4, SEC. 29, TWP. 1 S, RNG. 12 W, 3 PM

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

STRUCT. NO. N/A
Station 093-0000 soil 2011

BORING NO. 6 NW 3rd & Walnut
Station 69+19
Offset 70.0ft W of Walnut St CL
Ground Surface Elev. 424.76 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 395.3 ft
Upon Completion 411.8 ft
After 24 Hrs. 419.8 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3.75" asphalt on 7.25" concrete pavement.	423.86				
Medium, damp, brown, SANDY CLAY w/ Sand.			2		
			2	0.9	19
			2	B	
	420.26				
Very soft, damp, tan/gray/brown, SILTY LOAM.		-5	0		
			1	0.1	26
			1	B	
			1		
			2	0.3	25
			2	B	
	415.26				
Medium to stiff, damp, gray, SILTY CLAY.		-10	2		
			3	1.0	23
			2	B	
	412.76				
Stiff to medium, damp, brown, highly organic, SILTY LOAM w/ small wood pieces, lightweight.			1		
			2	1.1	49
			2	B	
		-15	1		
			2	1.2	66
			2	B	
			1		
			2	0.9	41
			2	B	
	404.76	-20	1		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium damp, gray, SILTY CLAY.			2	0.6	20
			3	B	
	402.76				
Medium to stiff, damp, gray, SILTY CLAY LOAM.			1		
			2	1.0	19
			2	B	
	400.26				
Medium to stiff, damp, gray, CLAY w/ trace Silt.		-25	0		
			1	1.0	25
			2	B	
	397.76				
Stiff, damp, bluish gray, CLAY LOAM.			1		
			3	1.5	17
			5	B	
	395.26				
Very soft, damp, bluish gray, SANDY LOAM. Sand in augers, stopped drilling.		-30	4		
			9	0.2	20
	393.76		11	PP	
Extent of exploration.					
Benchmark: Traverse Point in SW corner of 3rd & Walnut = 425.35' elevation. Provided by Program Development.		-35			
		-40			

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Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\WABASH CO (093)\093-0000 SOIL 2011 TRAF SIGNALS.GPJ Data Template DGTEMPLIT.GDT Date Printed 11/08/09
Latitude N 87 deg 45.818 min Longitude W 38 deg 24.428 min Datum Job Number

FILE NAME = c:\pw_work\pwidot\mcclellanla\d0177977\D774449-sht-TS.dgn	USER NAME = mcclellanla	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/6/2011	DATE -	REVISED -

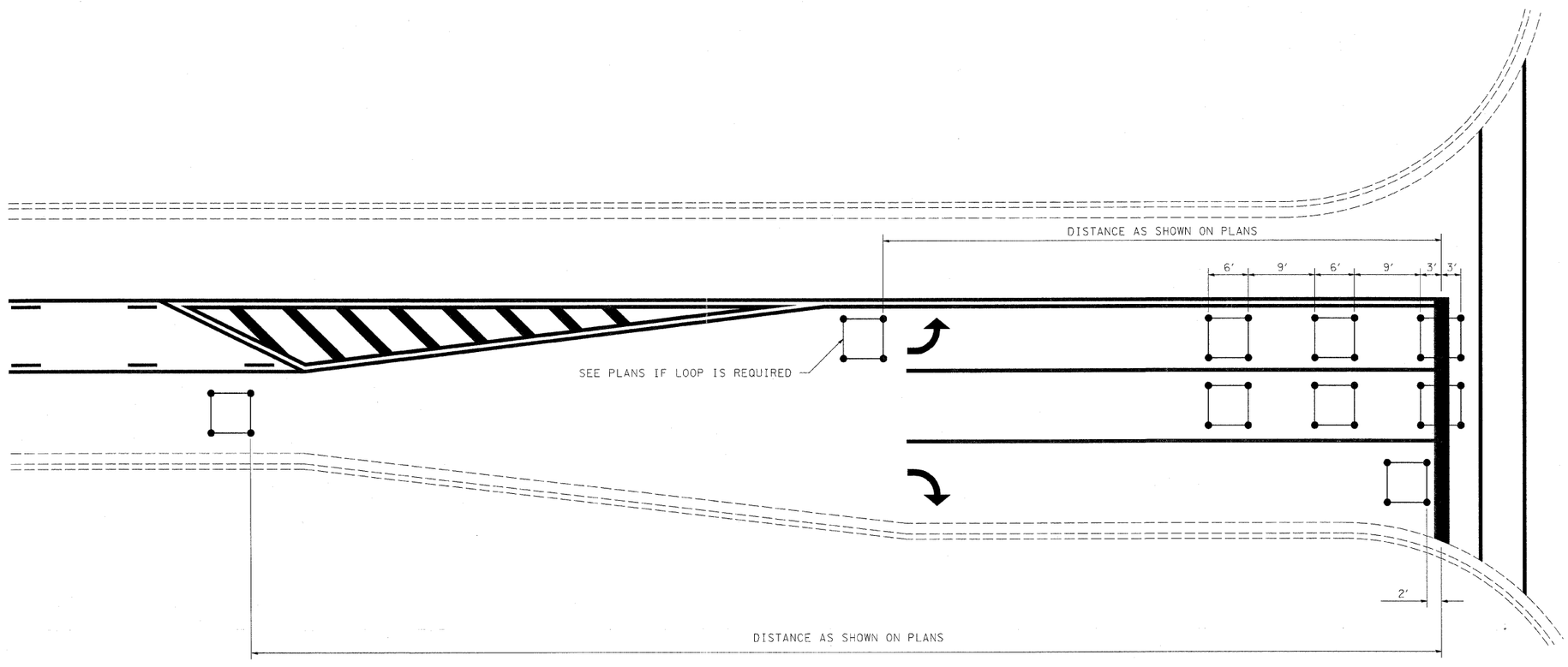
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

3rd & WALNUT STREET
BORING LOGS #5 & #6

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(103,104)RS-1,(12Z)RS-2	WABASH	44	43
		CONTRACT NO. 74449		
		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

FILE NAME = c:\pw_work\pwidot\mcclellanla\d0177977\D774449-sht-TS.dgn	USER NAME = mcclellanla	DESIGNED -	REVISED - MKS 4-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS OF DETECTOR LOOPS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	PLOT SCALE = 10.0000 ′ / in.	DRAWN -	REVISED -			827	(103,104)RS-1,(122)RS-1	WABASH	44 / 44
	PLOT DATE = 9/6/2011	CHECKED -	REVISED -					CONTRACT NO. 74449	
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	