FOR INDEX OF SHEETS, HIGHWAY STANDARDS, AND DETAILS SEE SHEET NO. 2

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS

334.335 12-00999-26-TL LAKE 59 1 CONTRACT NO. 61E33 LAKE

PROJECT LOCATED IN LAKE ZURICH, NORTH BARRINGTON, AND WAUCONDA

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

TRAFFIC SIGNALS

SECTION 12-00999-26-TL LAKE GOUNTY

FAP 334 (U.S. ROUTE 12) (RAND ROAD) MILLER ROAD TO FAP 335 (IL ROUTE 176) FAP 335 (IL ROUTE 176) FAP 334 (U.S. ROUTE 12 SB RAMP) TO BROWN STREET

FEDERAL PROJECT NO .: ZIX9(720) JOB NO.: C-91-156-16

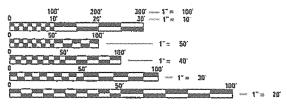
OTHER ARTERIAL

DESIGN DESIGNATION

DESIGN SPEED 55 MPH

TRAFFIG DATA

ROUTE SEGMENT	SPEED (MPH)	ADT (2015)	CLASSIFICATION
U.S. RTE 12 FROM MILLER RD TO OLD MCHENRY RD	55	25,900	4 LANE OTHER PRINCIPAL ARTERIAL
U.S. RTE 12 FROM OLD MCHENRY RD TO OLD RAND RD/LAKE SHORE DR	55	31,700	4 LANE OTHER PRINCIPAL ARTERIAL
U.S. RTE 12 FROM OLD RAND RO/LAKE SHORE OR TO IL RTE 59 WB RAMP	SS	30,700	4 Lane other principal arteri al
U.5 RTE 12 FROM IL RTE 59 WB RAMP TO IL RTE 176 EAST RAMPS	55	33,500	4 LANE OTHER PRINCIPAL ARTERI AL
IL RTE 176 FROM U.S. RTE 1258 RAMPS TO LARKDALE ROW	30	18,800	2 LANE OTHER PRINCIPAL ARTERI AL
IL RTE 176 FROM U.S. RTE 12 SB RAMPS TO BROWN STREET	30	12,500	2 LANE OTHER PRINCIPAL ARTERI AL

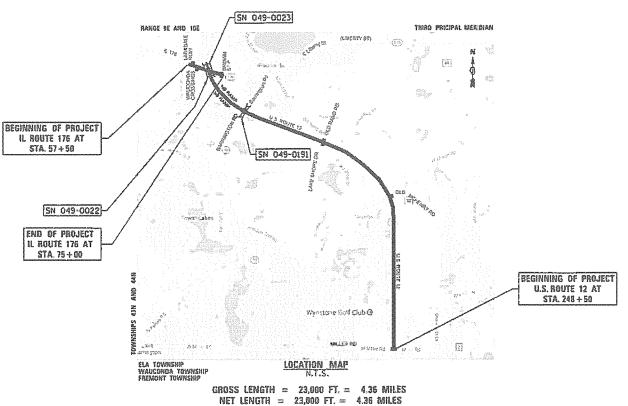


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

CHRISTOPHER B. BURKE ENGINEERING, LTD 9575 W. Higgins Road, Seite 600 (847) 823-0500

CONTRACT NO. 61E33



LOCATION OF SECTION INDICATED THUS: - - -STATE OF ILLINOIS REPARTMENT OF TRANSPORTATION APPROPED DOLLID LAKE COUNTY DIVISION OF TRANSPORTATION, COUNTY ENGINEER RELEASING FOR BID BASED ON LIMITED REVIEW OCONSER 30 20 LT Outling Q. Quinty OFE DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



INDEX OF SHEETS 1 TITLE SHEET

2 INDEX OF SHEETS AND GENERAL NOTES

3 GENERAL NOTES

4-6 SUMMARY OF QUANTITIES

7-8 STATE PLAN COORDINATES FOR PROPOSED TS EQUIPMENT

9-10 EXISTING SIGN RELOCATION PLAN

11 SUGGESTED LOCATIONS FOR "ROAD CONSTRUCTION AHEAD" SIGNS

12-18 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

19 DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS

TEMPORARY TRAFFIC SIGNAL INSTALLATION
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENTS
IL ROUTE 176 AND SB RAMP

21 TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 176 AND SB RAMP

22 TRAFFIC SIGNAL INSTALLATION PLAN IL ROUTE 176 AND SB RAMP

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 176 AND SB RAMP

24 MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 176 AND SB RAMP

25 TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENTS IL ROUTE 176 AND NB RAMP

26 TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 176 AND NB RAMP

27 TRAFFIC SIGNAL INSTALLATION PLAN IL ROUTE 176 AND NB RAMP

28 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 176 AND NB RAMP

29 MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 176 AND NB RAMP

30 TRAFFIC SIGNAL INSTALLATION PLAN IL ROUTE 176 AND BROWN STREET

31 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 176 AND BROWN STREET

32 TRAFFIC SIGNAL MODIFICATION PLAN U.S. ROUTE 12 AND LAKE SHORE DR./OLD RAND RD.

33 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE U.S. ROUTE 12 AND LAKE SHORE DR./OLD RAND RD.

34 TRAFFIC MODIFICATION PLAN U.S. ROUTE 12 AND OLD MCHENRY ROAD

35 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE U.S. ROUTE 12 AND OLD MCHENRY ROAD

36 EXISTING TRAFFIC SIGNAL PLAN U.S. ROUTE 12 AND MILLER ROAD

37 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE U.S. ROUTE 12 AND MILLER ROAD

38 TEMPORARY INTERCONNECT PLAN IL ROUTE 176 FROM LARKDALE ROW TO U.S 12 NB RAMP

9 TEMPORARY SCHEMATIC PLAN IL ROUTE 176 FROM LARKDALE ROW TO U.S 12 NB RAMP

40-47 INTERCONNECT PLAN
IL ROUTE 176 FROM LARKDALE ROW TO U.S. 12 NB RAMP
U.S. ROUTE 12 FROM MILLER ROAD TO IL ROUTE 176

48 INTERCONNECT SCHEMATIC PLAN IL ROUTE 176 FROM LARKDALE ROW TO U.S 12 NB RAMP U.S. ROUTE 12 FROM MILLER ROAD TO IL ROUTE 176 49 FIBER TERMINATION / SPLICE COUNT AND PATCH PANEL COLOR CODE

50 FIBER SPLICING DIAGRAM

51-52 CABINET DETAIL

53 CAMERA POLE AND CCTV CABINET DETAIL

54 LCDOT STANDARD DETAIL

55-59 IDOT DISTRICT 1 STANDARD DETAILS

HIGHWAY STANDARDS AND DETAILS

STD. No.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEED ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEED \geq 45 MPH
701502-08	URBAN LANE CLOSURE, 2L, 2W, WITH BI-DIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-07	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

DISTRICT DETAILS

886001-01 DETECTOR LOOP INSTALLATIONS

TYPICAL LAYOUT FOR DETECTION LOOPS

ENTRANCE AND EXIT DAMP OF OSTIDE DETAILS

886006-01

TC 08

10-00	ENTRANCE AND EXIT NAME CEOSONE DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURE AND PARTIAL RAMP CLOSURES
TC-22	ARTERIAL ROAD INFORMATION SIGN

LCDOT DETAILS

LC 8900 CAMERA MOUNTING DETAILS

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I. GENERAL

- CONSTRUCTION SHALL BE DONE ACCORDING TO THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL I, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JANUARY I, 2017; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER, THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR BRIEF PERIODS OF INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE INTERRUPTION OF ACCESS AND/OR SERVICES, THE NOTIFICATION WILL INCLUDE THE TIME AND DURATION OF THE INTERRUPTION.

2. REMOVAL

- ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFFSITE ON THE DAY IT IS EXCAVATED OR REMOVED.
- THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS, ALL EXCESS OR WASTE MATERIAL SHALL BE HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND LEGALLY DISPOSED OF OUTSIDE THE RIGHT-OF-WAY.
- REMOVED ITEMS DESIGNATED FOR SALVAGE ITEMS DESIGNATED FOR SALVAGE SHALL BE CAREFULLY REMOVED AND STORED IN THE MANNER DESIGNATED BY ENGINEER. THE COST OF STORING SALVAGED ITEMS SHALL BE INCLUDED IN THE UNIT COST OF THE ITEM(S) BEING REMOVED.

THE FOLLOWING ITEMS/COMPONENTS HAVE BEEN DESIGNATED FOR SALVAGE BY LCDOT:

- TRAFFIC SIGNAL EQUIPMENT:
- O LONG RANGLE WIRELESS TRANSMISSION SYSTEM

SIGNS

- THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS/HER CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS ACCORDING TO ARTICLE 107.25 OF THE "STANDARD SPECIFICATIONS".
 - ALL UNUSED SIGNS SHALL BE RETURNED TO THE STATE.
 - LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OF PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER

4. UTILITIES

- LOCATION INFORMATION FOR UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS AND/OR INCLUDED IN THE CONTRACT SPECIFICATIONS REPRESENTS THE BEST INFORMATION PROVIDED TO LCDOT, AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR, LCDOT ASSUMES NO RESPONSIBILITY FOR THE SUFFICIENCY OF THE ACCURACY OF THE LOCATION INFORMATION PROVIDED.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, CABLE, ETC.., UTILITY LINES (MINIMUM 48-HOUR NOTIFICATION IS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL RESTORE SUCH PROPERTY AT HIS/HER OWN EXPENSE, THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.

GENERAL NOTES

5. PROJECT SPECIFIC NOTES:

SPECIAL ATTENTION SHOULD BE GIVEN TO THE EXPLORATORY EXCAVATION PAY ITEM, SEE SPECIAL PROVISION FOR MORE DETAILS.

- 6. COMMITMENTS NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.
- 7. POINTS OF CONTACT

	LAKE COUNTY PASSAGE MR. JON NELSON, P.E. ENGINEER OF TRAFFIC PH: (847) 377-7000 FAX: (847) 984-5606	IDOT TRAFFIC CONTROL MR. CORY JUCIUS DISTRIC I TRAFFIC CONTROL SUPERVISOR PH: (847) 705-4470
- 1		

8. UTILITY POINTS OF CONTACT (LEGAL MANDATE - CONTACT FOR QUESTIONS ON UTILITY PLANS & PERMITS)

BILLIT FORTS OF CONTACT RECORE I	MANDATE CONTACT FOR GOESTIONS C	TO THE TEATS & TERMITS
AT&T (DISTRIBUTION) MR.STEVE LARSON 1000 Commerce Drive FLOOR OAK BROOK, IL 60523 PH: (630) 573-5450 G 629@a†+.com	COMCAST MS. MARTHA GIERAS 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 PH: (224) 229-5862 MARTHA_GIERAS@CABLE.COMCAST.COM	COMED MS. TERRIBLECK ISOO FRANKLIN BLVD. LIBERTYVILLE, IL 60048 PH (847) 816-5239 FAX: 847) 816-5348 TERRI.BLECK@COMED.COM
COMED	NICOR GAS	REDSPEED ILLINOIS
MR. CHRISTIAN MUKANIA	MR. BRUCE KOPPANG	MR. JOSE CHAVEZ
ILINCOLN CENTER	1844 FERRY ROAD	400 EISENHOWER LANE NORTH
OAKBROOK TERRANCE, IL 60181	NAPERVILLE, IL 60563	LOMBARD, IL 60148
PH: (339) 440-6254	PH (630) 388-3046	PH: (630) 317-5705
CHRISTIAN.MUKANIA@EXELONCORP.COM	GASMAPS@NICOR.COM	JOSE.CHAVEZ@REDSPEED-ILLINOIS.COM
VILLAGE OF HAWTHORN WOODS	VILLAGE OF LAKE ZURICH	VILLAGE OF WAUCONDA
DEPT. OF PUBLIC WORKS	MR. MIKE BROWN	MR.ALEX PRYDE
MS. ERIKA FRABLE	505 TESLER ROAD	IOINORTH MAIN STREET
2 LAGOON DRIVE	LAKE ZURICH, IL 60047	WAUCONDA, IL 60084
HAWTHORN WOODS, IL 60047	PH: (847) 540-1696	PH: (847) 526-9610
PH: (847) 540-5223	MIKE.BROWN@LAKEZURICH.ORG	PUBLICWORKS2@WAUCONDA-IL.GOV

FILE NAME =	USER NAME = ejensen	DESIGNED -	EAJ	REVISED -
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	PLOT DATE = 11/8/2017	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SHEET NO.

OFNIE	DAI 81	0.750		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENE	RAL N	DIES		334,335	12-00999-26-TL	LAKE	59	3
						CONTRACT	NO. 61	E33
0F	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. AI	D PROJECT		

						IL ROUTE 176 @ US ROUTE 12 SB RAMP	IL ROUTE 176 @ US ROUTE 12 NB RAMP		LAKE SHORE DR	RD	US ROUTE 12 @ MILLER RD	INTERCONNECT	LCDOT PASSAGE NETWORK
						0021 CMAQ FUNDS	0021 CMAQ FUNDS	0021	ONSTRUCTION CO 0021 CMAQ FUNDS	0021	0021 CMAQ FUNDS	0021 CMAQ FUNDS	0021 CMAQ FUND
	CODE NO.		ITEM		UNIT TOTA	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNT
k	66900200 NON-SP	PECIAL WASTE DISPOSAL			CU YD 93	24	20					49	
Ж	66900450 SPECIA	AL WASTE PLANS AND REP	ORTS		LSUM 1	0.2	0.2					0.6	
*	66900530 SOIL DI	SPOSAL ANALYSIS			EACH 6	1	1					4	
	67100100 MOBILIZ	ZATION			LSUM 1	0.2	0.2					0.6	
	72000200 SIGN P.	ANEL - TYPE 2			SQ FT 26	13	13						
	81028200 UNDER	GROUND CONDUIT, GALVA	NIZED STEEL, 2" DIA.		FOOT 23178	632	787					21759	
	81028220 UNDER	GROUND CONDUIT, GALVA	NIZED STEEL, 3" DIA.		FOOT 211	128	83						
	81028240 UNDER	GROUND CONDUIT, GALVA	NIZED STEEL, 4" DIA.		FOOT 593	274	319						
	81400100 HANDH	OLE			EACH 7	4	3						
	81400200 HEAVY	-DUTY HANDHOLE			EACH 43	1	2					40	
	81400300 DOUBL	E HANDHOLE			EACH 2	1	1						
	83600300 LIGHT F	POLE FOUNDATION, 30" DIA	METER		FOOT 10							10	
	83800205 BREAK	AWAY DEVICE, TRANSFOR	MER BASE, 15 INCH BOLT CIRCLE		EACH 1							1	
	85000200 MAINTE	ENANCE OF EXISTING TRAF	FIC SIGNAL INSTALLATION		EACH 9			1	1	1	1	1	4
	86400100 TRANS	CEIVER - FIBER OPTIC			EACH 2							2	
	87300925 ELECTF	RIC CABLE IN CONDUIT, TRA	CER, NO. 14 1C		FOOT 26225							26225	
	87301225 ELECTF	RIC CABLE IN CONDUIT, SIG	NAL NO. 14 3C		FOOT 1183	704	479				Resident destates the second s		
	87301245 ELECTF	RIC CABLE IN CONDUIT, SIG	NAL NO. 14 5C		FOOT 3044	1135	1909						
	87301255 ELECTF	RIC CABLE IN CONDUIT, SIG	NAL NO. 14 7C		FOOT 529	276	253						
	87301305 ELECTF	RIC CABLE IN CONDUIT, LEA	D-IN, NO. 14 1 PAIR		FOOT 3281	1713	1568						
		RIC CABLE IN CONDUIT, SEF			FOOT 382	57	51		**************************************			274	
		RIC CABLE IN CONDUIT, SEF			FOOT 108							108	
			JIPMENT GROUNDING CONDUCTOR, I	NO. 6 1C	FOOT 1237		453					274	
		C SIGNAL POST, GALVANIZ			EACH 5	2	3						
		MAST ARM ASSEMBLY AN			EACH 1		1						
		MAST ARM ASSEMBLY AN			EACH 1		1						
		MAST ARM ASSEMBLY AN			EACH 1	1							
		MAST ARM ASSEMBLY AN			EACH 1	1							
		MAST ARM ASSEMBLY AN			EACH 1	1	1						
		MAST ARM ASSEMBLY AN			EACH 1	1	46					4	
		RETE FOUNDATION, TYPE A			FOOT 32	12	16						
SER NAME = ejen S 12.dgn .OT SCALE = 2'	D	ESIGNED	REVISED - REVISED - REVISED - REVISED -		TE OF ILLIN TOF TRAN	IOIS SPORTATION	SCALE:		IMMARY OF SHEET 1 NO. OF SHEE		TO STA.	F.A.P RTE. 334,335 12-	SECTION 00999-26-TL

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

					IL ROUTE 176 @ US ROUTE 12 SB RAMP	IL ROUTE 176 @ US ROUTE 12 NB RAMP		US ROUTE 12 @ OLD RAND RD / LAKE SHORE DR	RD	US ROUTE 12 @ MILLER RD	INTERCONNECT	LCDOT PASSAGE NETWORK
				T	0021 CMAQ FUNDS	0021 CMAQ FUNDS	0021 CMAQ FUNDS		0021 CMAQ FUNDS	0021 CMAQ FUNDS		0021 CMAQ FUNDS
CODE NO		ITEM	UNIT	TOTAL	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY	80% FED 20% COUNTY
87800150	CONCRETE FOUNDATION, TYPE C		FOOT	8	4	4						
87800400	CONCRETE FOUNDATION, TYPE E 30-	INCH DIAMETER	FOOT	20		20						
87800415	CONCRETE FOUNDATION, TYPE E 36-	-INCH DIAMETER	FOOT	48	35	13						
87900200	DRILL EXISTING HANDHOLE		EACH	10	2	2					6	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION	ON, MAST-ARM MOUNTED	EACH	10	5	5						
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION	ON, BRACKET MOUNTED	EACH	8	3	5						
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION	ON, BRACKET MOUNTED	EACH	2	1	1						
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION	ON, MAST-ARM MOUNTED	EACH	2	1	1						
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVE	ERED, FORMED PLASTIC	EACH	12	6	6						
88500100	INDUCTIVE LOOP DETECTOR		EACH	13	7	6	-					
88600100	DETECTOR LOOP, TYPE I		FOOT	821	433	388						
88700200	LIGHT DETECTOR		EACH	6	3	3						
88700300	LIGHT DETECTOR AMPLIFIER		EACH	2	1	1						
89000100	TEMPORARY TRAFFIC SIGNAL INSTAI	LLATION	EACH	2	1	1						
89502300	REMOVE ELECTRIC CABLE FROM CO	NDUIT	FOOT	3239					78		3161	
89502375	REMOVE EXISTING TRAFFIC SIGNAL I	EQUIPMENT	EACH	4	1	1		1	1			
39502380	REMOVE EXISTING HANDHOLE		EACH	15	7	8						
89502385	REMOVE EXISTING CONCRETE FOUN	DATION	EACH	14	6	8						
X0323906	CAMERA POLE, 45 FT		EACH	1							1	
X0324085	EMERGENCY VEHICLE PRIORITY SYS	STEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	833	354	479						
X0324597	CLOSED CIRCUIT TELEVISION CABINE	ĒT	EACH	1							1	
X0324599	ROD AND CLEAN EXISTING CONDUIT		FOOT	775	302	229					244	
X0327406	RELOCATE EXISTING VIDEO ENCODE	R, SPECIAL	EACH	1	1							
X1400081	FULL-ACTUATED CONTROLLER AND 1	TYPE SUPER P CABINET (SPECIAL)	EACH	2	1	1						
X1400150	SERVICE INSTALLATION, GROUND MO	OUNTED, METERED	EACH	3	1	1					1	
X1400217	TERMINATE FIBER IN CABINET		EACH	6				-				6
X1400219	SPLICE FIBER IN CABINET		EACH	18								18
	TRAFFIC CONTROL AND PROTECTION	I, (SPECIAL)	LSUM	1	0.15	0.15	0.14	0.14	0.14	0.14	0.14	
	RELOCATE EXISTING SIGNS		EACH	2	1	1						
	CONDUIT SPLICE		EACH		1						1	
	UNINTERRUPTABLE POWER SUPPLY	. SPECIAL	EACH		1	1						
		, 	2.1011									
en.	DESIGNED - EAJ DRAWN - FPB CHECKED - GMZ	REVISED - REVISED - REVISED -	STATE DEPARTMENT O			,		SUMMARY SHEE	OF QUANTI T 2 OF 3	TIES	F.A.P RTE. 334,335	SECTION 12-00999-26-TL
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USER NAME = ejensen

PLOT DATE = 11/30/2017

PLOT SCALE = 2'

SUMMARY OF QUANTITIES

				IL ROUTE 176 @ US ROUTE 12 SB RAMP	IL ROUTE 176 @ US ROUTE 12 NB RAMP	IL ROUTE 176 @ BROWN ST	US ROUTE 12 @ OLD RAND RD / LAKE SHORE DR	US ROUTE 12 @ OLD MCHENRY RD	US ROUTE 12 @ MILLER RD	INTERCONNECT	LCDOT PASSAGE NETWORK
						C	ONSTRUCTION CO				
				0021	0021	0021	0021	0021	0021	0021	0021
				CMAQ FUNDS	CMAQ FUNDS	STATE	CMAQ FUNDS	CMAQ FUNDS	CMAQ FUNDS	CMAQ FUNDS	CMAQ FUNDS
CODE NO	. ITEM	UNIT	TOTAL	80% FED	80% FED	80% FED	80% FED	80% FED	80% FED	80% FED	80% FED
CODENC	11 = 111	01411	1017	20% COUNTY	20% COUNTY	20% COUNTY	20% COUNTY	20% COUNTY	20% COUNTY	20% COUNTY	20% COUNTY
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	26394							26394	
X8730571	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	351	351							
X8730800	ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	351	351							
XX005206	EXPLORATORY EXCAVATION	FOOT	120	35	35					50	
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	3			1	1			1	
XX006655	LAYER II (DATALINK) SWITCH	EACH	4	1	1		1			1	
VV008302	OUTDOOR RATED NETWORK CABLE	FOOT	767	351		207	164			45	
70000352	COLDOCATA LED NE IWONK CABLE	1001	10,	331		201	104			,,,	
XX009055	FULL-ACTUATED CONTROLLER, SPECIAL	EACH	1				1				
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	2			1	1				******
70030850	TEMPORARY INFORMATION SIGNING	SQ FT	371.7	51.4	51.4					268.9	
					20000						
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1							1	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1	1						
Z0076600	TRAINEES	HOUR	500								
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500								
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* = SPECIALITY ITEM

△ = CONSTRUCTION CODE 0042

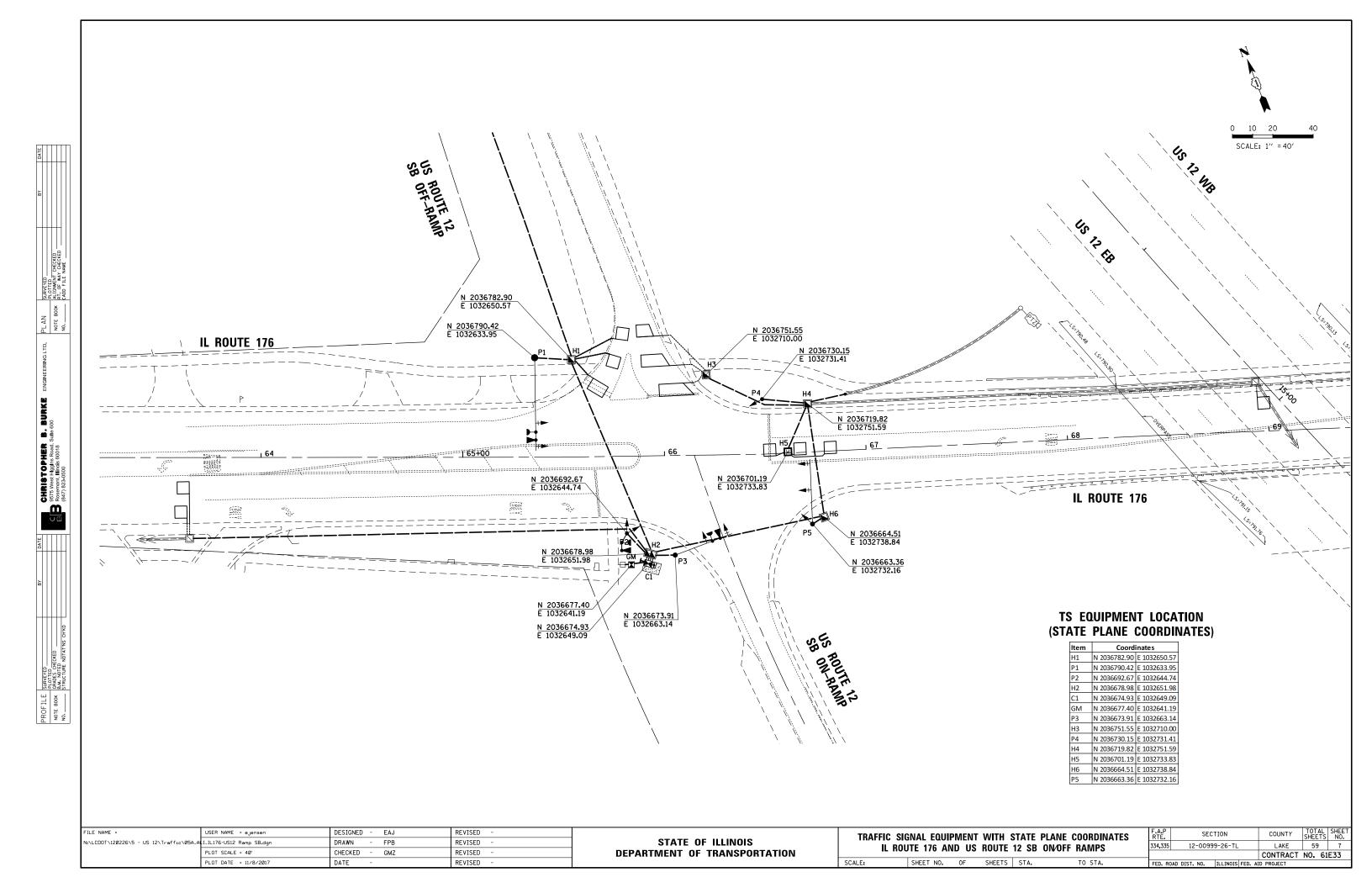
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	CHAIGHOPHER OF BURKE ENGINEERING LTD.	0575 West Hippins Road Strite 600	on num 'moutelingail to too	Rosemont, Illinois bound	(847) 823-0500
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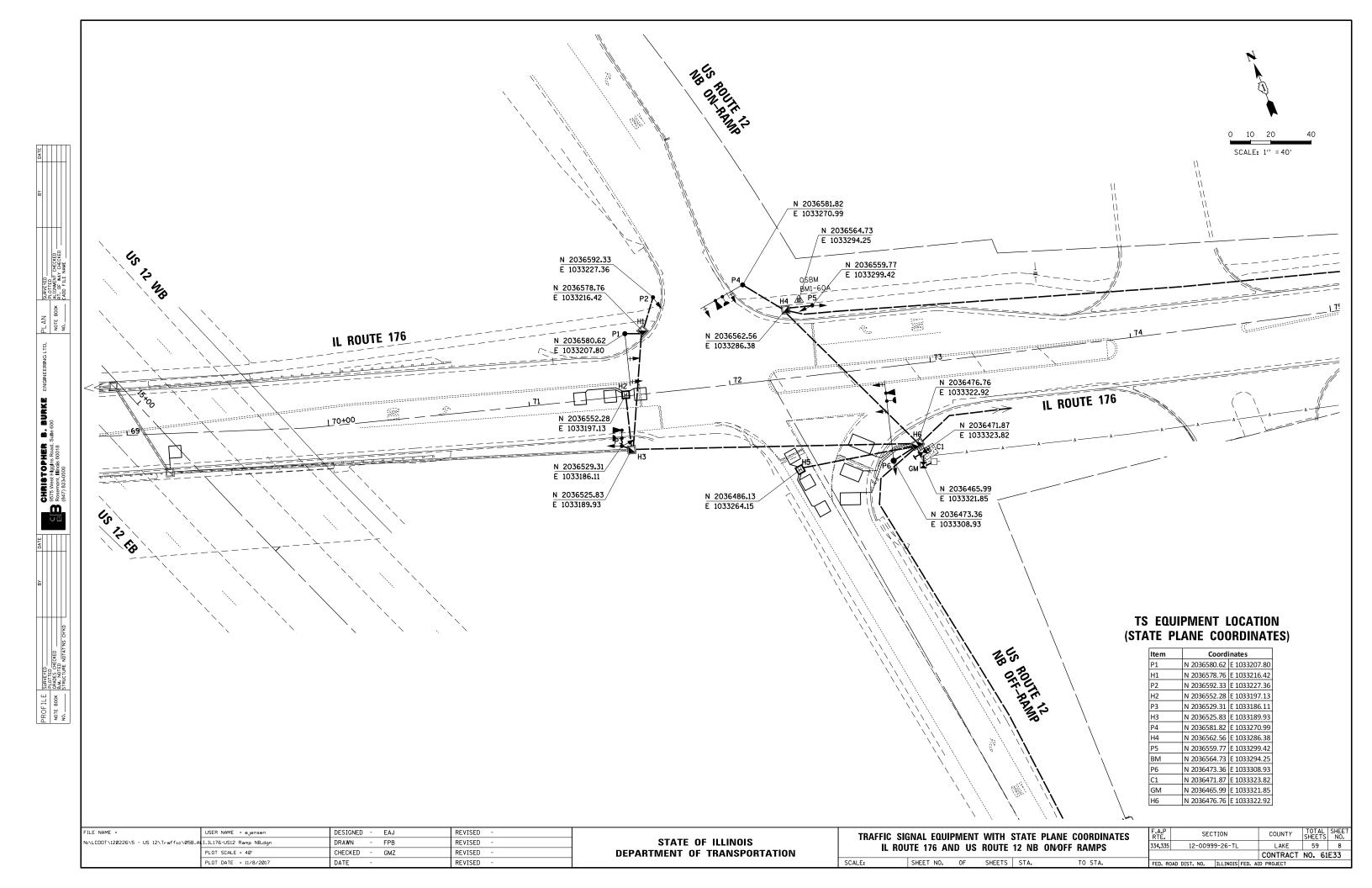
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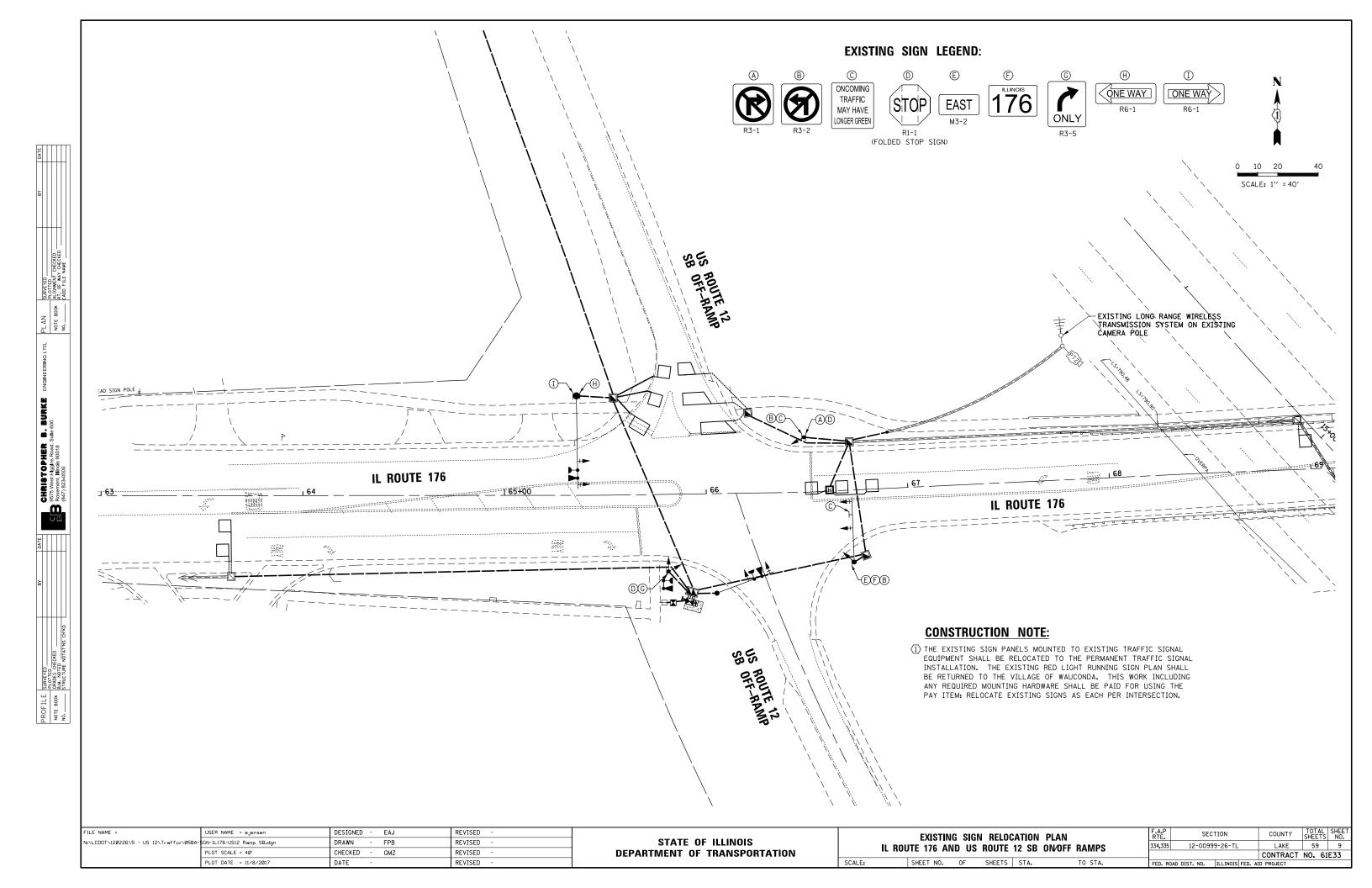


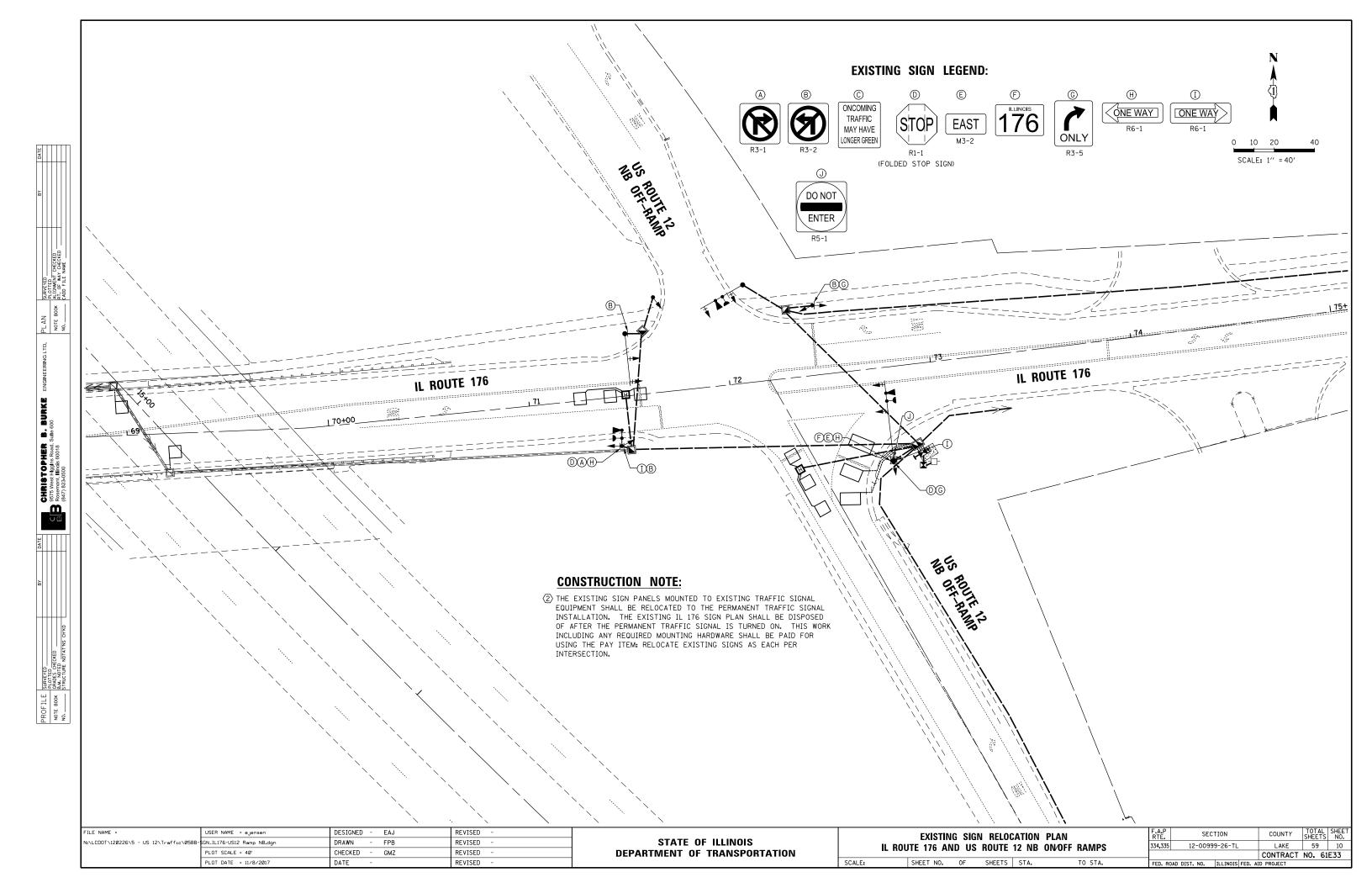
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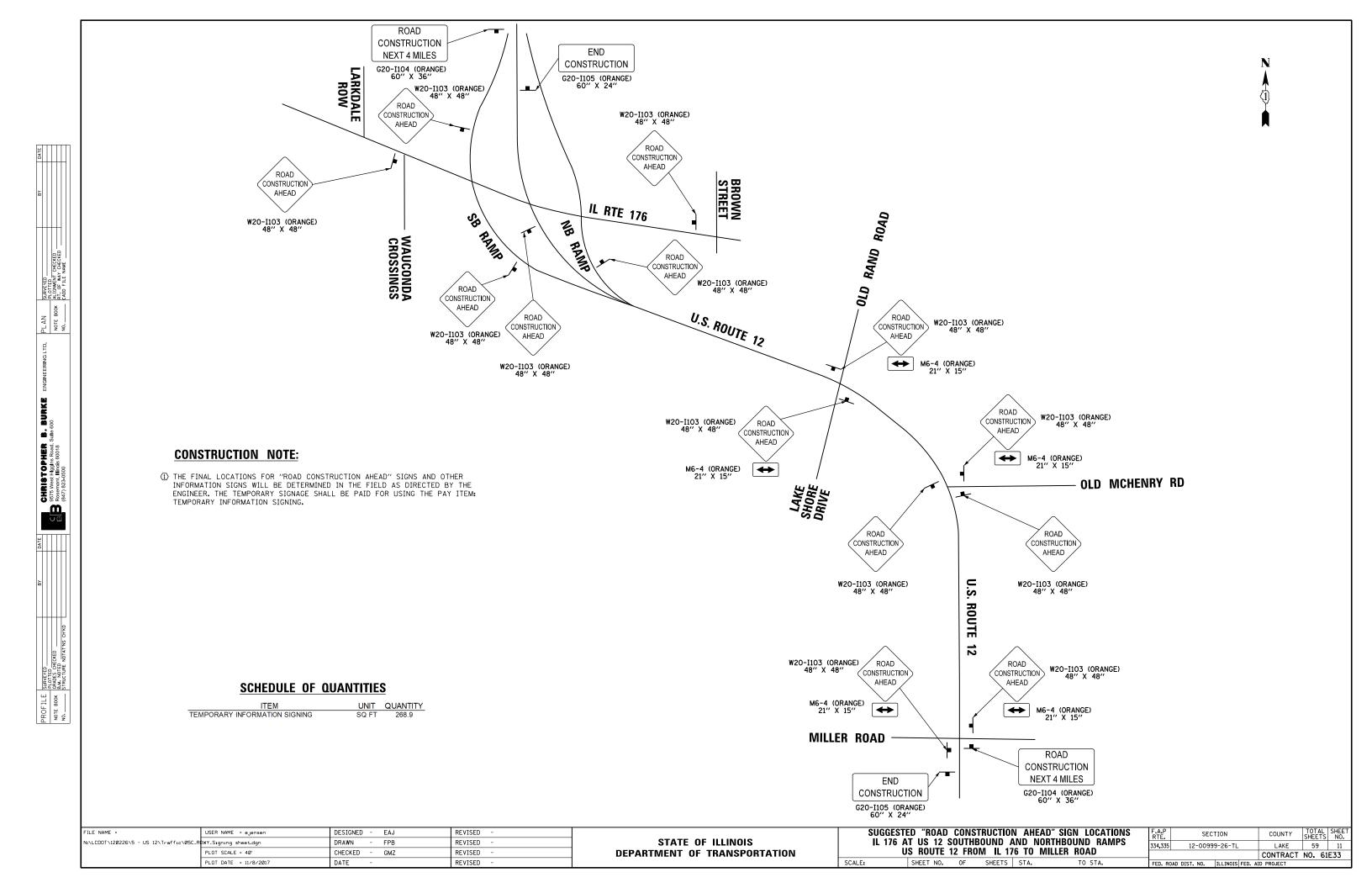
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TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

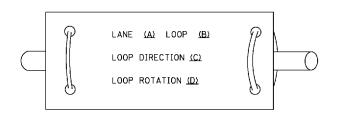
				(NOT TO SCALL)				
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET	\bowtie		HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R R	R R Y
COMMUNICATION CABINET	ECC	СС	-ROUND HEAVY DUTY HANDHOLE					R
MASTER CONTROLLER	ЕМС	MC	-SQUARE -ROUND		H 49			4 G 4 G P
MASTER MASTER CONTROLLER	Еммс	ммс	DOUBLE HANDHOLE					'
UNINTERRUPTABLE POWER SUPPLY	∳		JUNCTION BOX		0	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		RRYY
SERVICE INSTALLATION	-□- ^P	- ≖- P	RAILROAD CANTILEVER MAST ARM	X OX X	X CX X			C
-(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL	∑o ∑	X+X		P RB	P RB
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}	RAILROAD CROSSING GATE	∑⊙∑ >	X+3-	PEDESTRIAN SIGNAL HEAD		₽
TELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK	苍	*	AT RAILROAD INTERSECTIONS	()	Ā
STEEL MAST ARM ASSEMBLY AND POLE	0	•——	RAILROAD CONTROLLER CABINET		≯ ∢	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	₽ C ⊀ D
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC). GALVANIZED STEEL					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	0-¤—	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	● BM	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
			INTERSECTION ITEM	I	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	\sim	\cup
WOOD POLE	⊗ .	€ .	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	(1*6)
GUY WIRE	>	>	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER	<u>—</u> 1	_1_
SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE	- >	→	ABANDON ITEM		Α	NO. 14 1/C	-/	
	РР	_PP	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	— <u>C</u> —	—©—
SIGNAL HEAD OPTICALLY PROGRAMMED	-D' +D'	→ + >	MAST ARM POLE AND		RMF	VENDOR CABLE		
FLASHER INSTALLATION -(FS) SOLAR POWERED	op op s	F FS	FOUNDATION TO BE REMOVED SIGNAL POST AND		205	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6*18	
		_	FOUNDATION TO BE REMOVED		RPF	FIBER OPTIC CABLE		
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			-NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	E (1)	P P	-NO. 62.5/125, MM12F SM24F	<u></u>	— <u>24</u> F—
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	[<u>S]</u> (§)	s s		<u></u>	—(36F)—
VIDEO DETECTION CAMERA	(V)	V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	$[\underline{is}]$ (is)	IS (S)			
RADAR/VIDEO DETECTION ZONE		=	QUEUE AND SAMPLING (SYSTEM) DETECTOR	[as] (as)	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	<u>:</u> C <u>:</u> M <u>:</u> P <u>:</u> S	$\stackrel{\stackrel{\circ}{=}^{C}}{\stackrel{-}{=}^{M}} \stackrel{\stackrel{\circ}{=}^{P}}{\stackrel{-}{=}^{S}}$
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ¶	WIRELESS DETECTOR SENSOR	®	®	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\boxtimes	◄	WIRELESS ACCESS POINT					
CONFIMATION BEACON	○ —☐	⊷						
WIRELESS INTERCONNECT	O++ -	•-+ 						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
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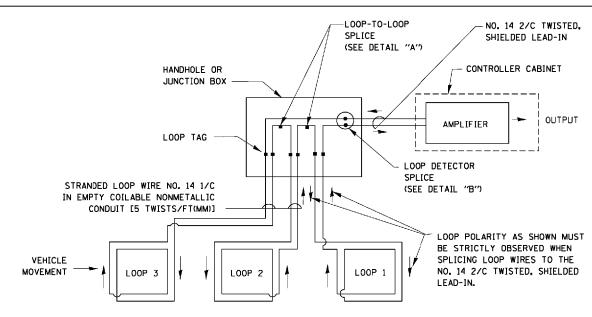
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- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

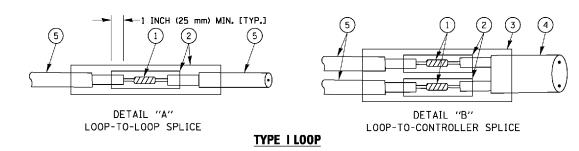


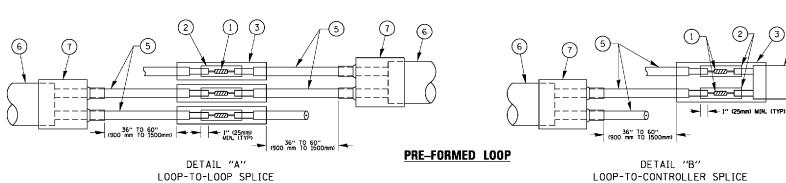
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- T XL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

COUNTY

CONTRACT NO.

59 | 13

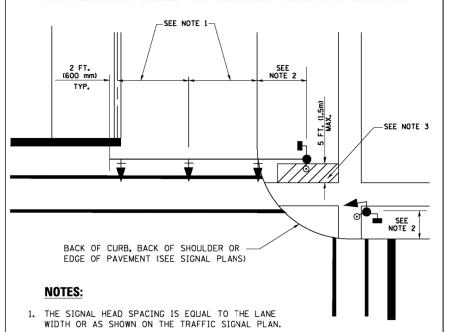
LAKE

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

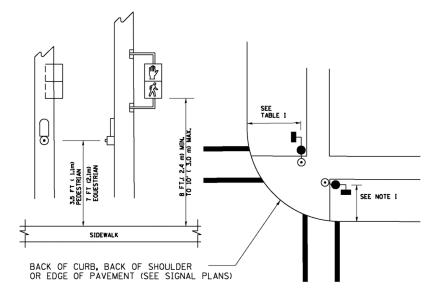
SECTION DISTRICT ONE 12-00999-26-TL STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET NO. 2 OF 7 SHEETS STA. FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



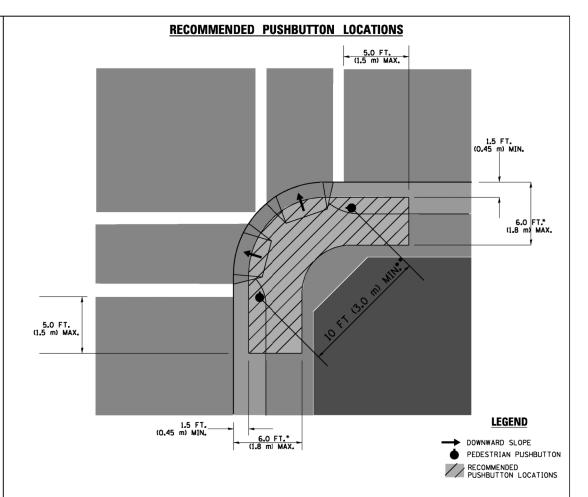
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

<u>PEDESTRIAN SIGNAL POST</u> <u>AND</u> PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- •• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

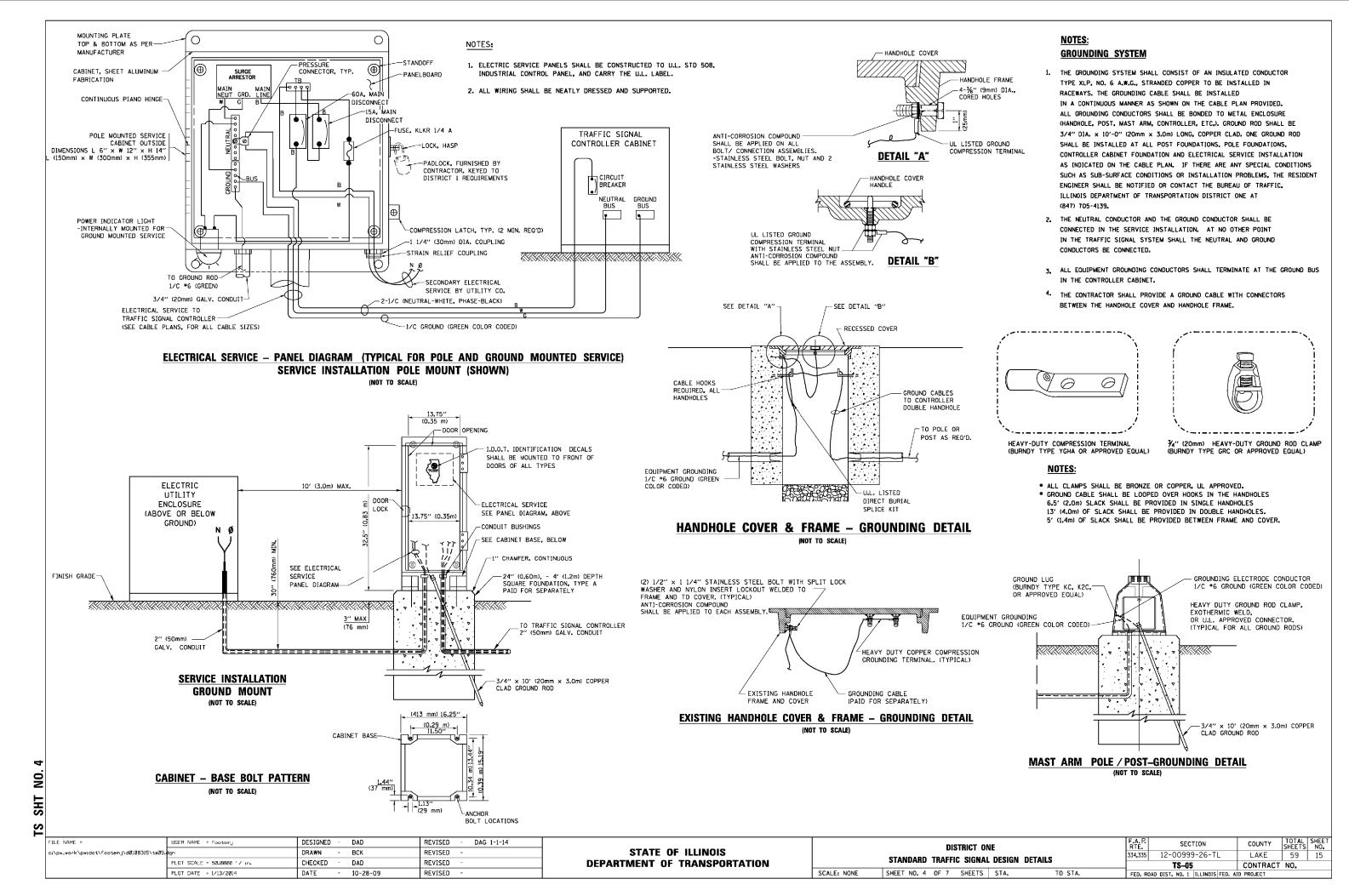
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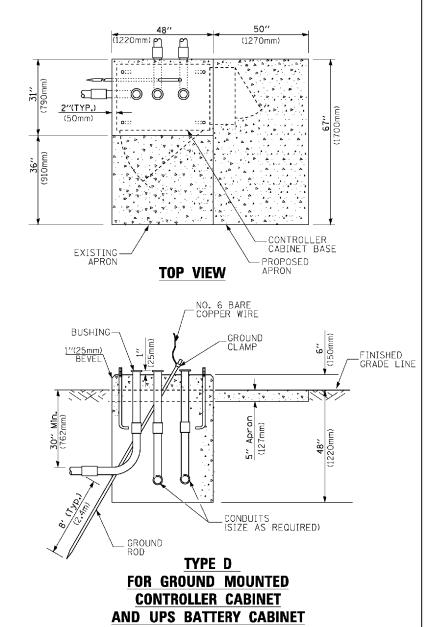
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

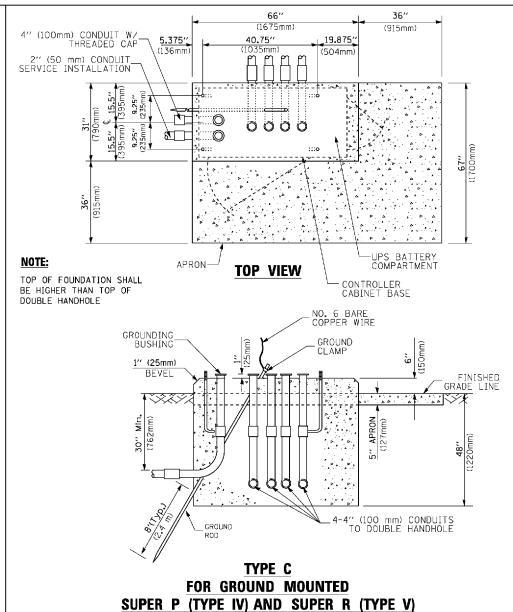
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DISTRICT O	NE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE1
	STANDARD TRAFFIC SIGNA	DESIGN	DETAILS	334,335	12-00999-26-TL	LAKE	59	14
	STANDARD TRAFFIC SIGNA	L DESIGN	DETAILS		TS-05	CONTRACT	NO.	
SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		







CONTROLLER CABINETS

SEE NOTE 5-2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.) TRAFFIC SIGNAL-CONTROLLER CABINET CABINET ¾" (19mm) TREATED PHYWOOD DECK 6" x 6" (152mm x 152mm) TREATED WOOD POSTS

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

/ERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH				
TYPE A - Signal Post	4'-0" (1.2m)				
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)				
TYPE D - CONTROLLER	4'-0" (1.2m)				
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)				

DEPTH OF FOUNDATION

	C Foundation	Foundation	Spiral	Quantity of	C:£
Mast Arm Length	① Foundation Depth	Diameter	Spirai Diameter	Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Creater than or equal to 56′ (16.8 m) and less than 65′ (19.8 m)	21'-0'' (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19,8 m) and up to 75' (22,9 m)	25'-0" (7,6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (0u) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

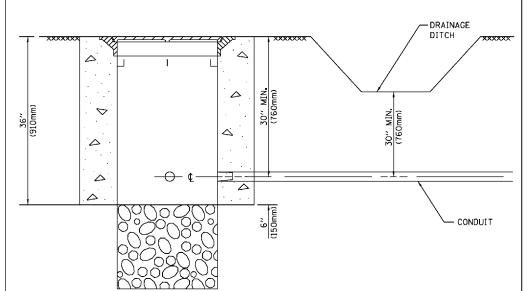
4. For most arm assemblies with dual arms refer to state standard 878001..

CABLE SLACK

FILE NAME =	USER NAME = footsmj	DESIGNED	-	DAG	REVISED	-	DAG 1-1-14	Γ
c:\pw_work\pwidot\footemj\dØ10B3I5\tsØ5.	dgn	DRAWN	-	BCK	REVISED	-		
	PLOT SCALE = 50.0000 '/ in.	CHECKED	-	DAD	REVISED	-		
	PLOT DATE = 1/13/2014	DATE	-	10-28-09	REVISED	_		

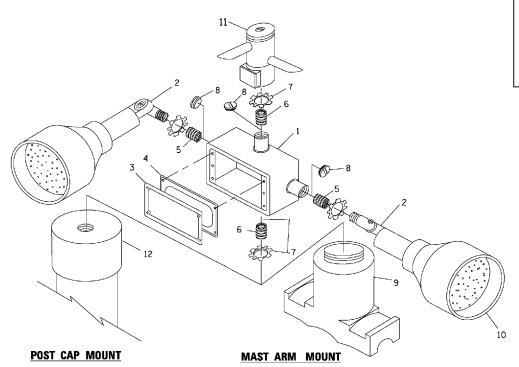
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

								F.A.P. SECTION		TOTAL SHEETS		
								12-00999-26-TL	LAKE 59		16	
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS							TS-05	CONTRACT	NO.		
	SCALE: NONE	SHEET NO. 5	OF 7	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)



19.875" 5.375" 40.75" (136mm) (1035mm) (504mm) < 0 -CONTROLLER CABINET BASE **TOP VIEW** NO. 6 BARE COPPER WIRE NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING _GROUND CLAMP / ANCHOR BOLTS 1"(25mm) -EXISTING CONDUITS EXISTING GROUND ROD

(1675mm)

(915mm)

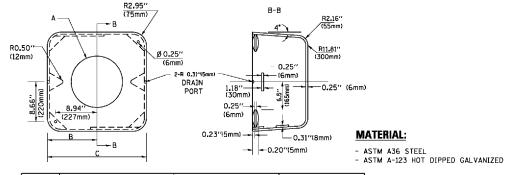
MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)

IDENTIFICATION 1 OUTLET BOX- CALY. 21 CU,IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER RUBBER COVER GASKET REDUCING BUSHING 1/4"(19 mm) CLOSE NIPPL 3/4"(19 mm) LOCKNUT SADDLE BRACKET - GALV. 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

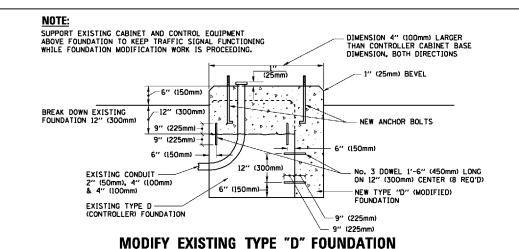
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP. **EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

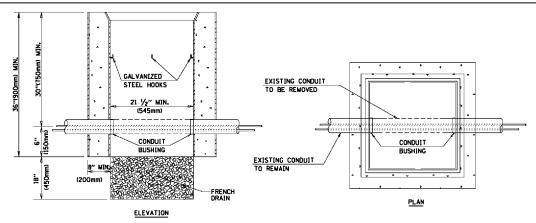


A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.





SCALE: NONE

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

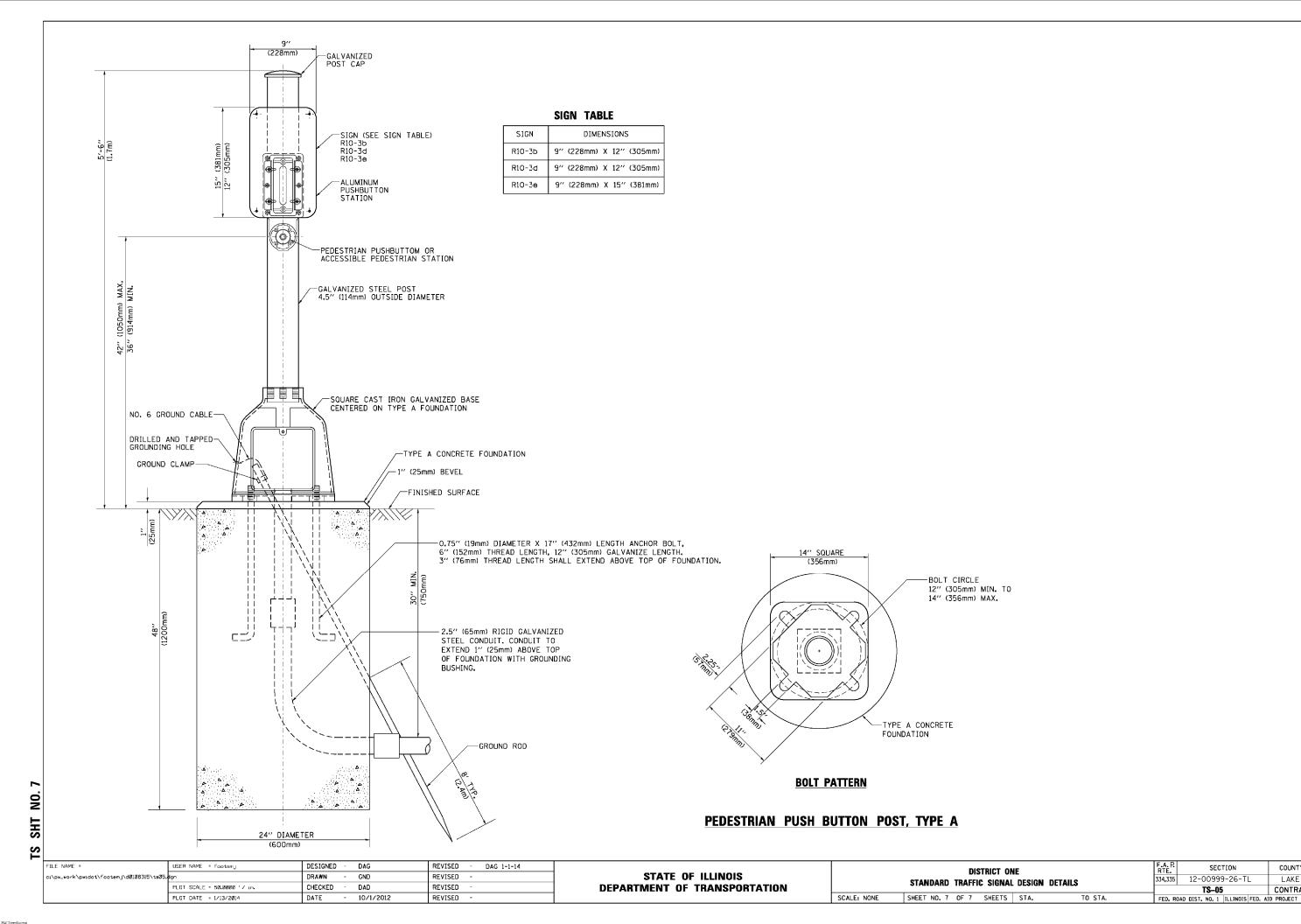
HANDHOLE TO INTERCEPT EXISTING CONDUIT

59 17

REVISED DESIGNED DAG 1-1-14 c:\pw_work\pwidot\footemJ\dØ108315\taØ5 DRAWN BCK REVISED PLOT SCALE = 50.0000 '/ in. CHECKED DAD REVISED PLOT DATE = 1/13/2014 DATE 10-28-09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY 12-00999-26-TL LAKE STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. SHEET NO. 6 OF 7 SHEETS STA.



TOTAL SHEET NO. 59 18

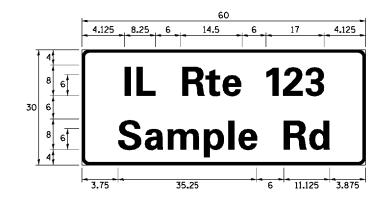
COUNTY

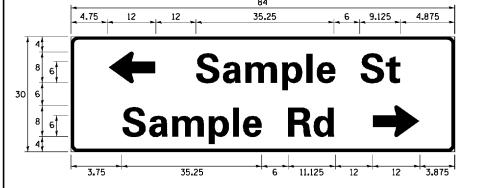
LAKE

CONTRACT NO.

SIGN PANEL - TYPE 1 OR TYPE 2

3.75 35.25 60 11.125 3.875 Sample Rd





DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D OR C	-	1 OR 2	ZZ	

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	B∣vd	17. 125	20.000
CIRCLE	Cir	11.125	13.000
COURT	C†	8. 250	9. 625
DRIVE	Dr	8. 625	10.125
HIGHWAY	Hwy	18. 375	22.000
ILLINOIS	IL	7. 000	8. 250
LANE	Ln	9. 125	10.750
PARKWAY	Pkwy	23. 375	27. 375
PLACE	PI	7. 125	7. 750
ROAD	Rd	9. 625	11.125
ROUTE	Rte	12.625	14.500
STREET	S†	8.000	9. 125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9. 125
UNITED STATES	US	10. 375	12.250

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-O" IN WIDTH, IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA - WESTERN REMAC, INC.

WOODRIDGE, IL

SIGN CHANNEL SIGN SCREWS BRACKETS

PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)

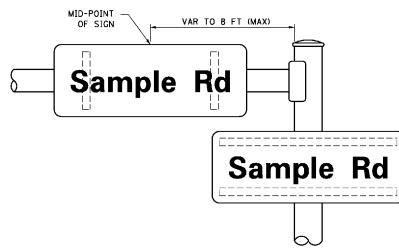
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

SCALE:

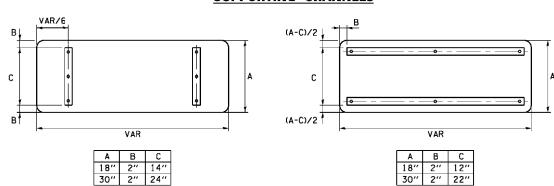
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



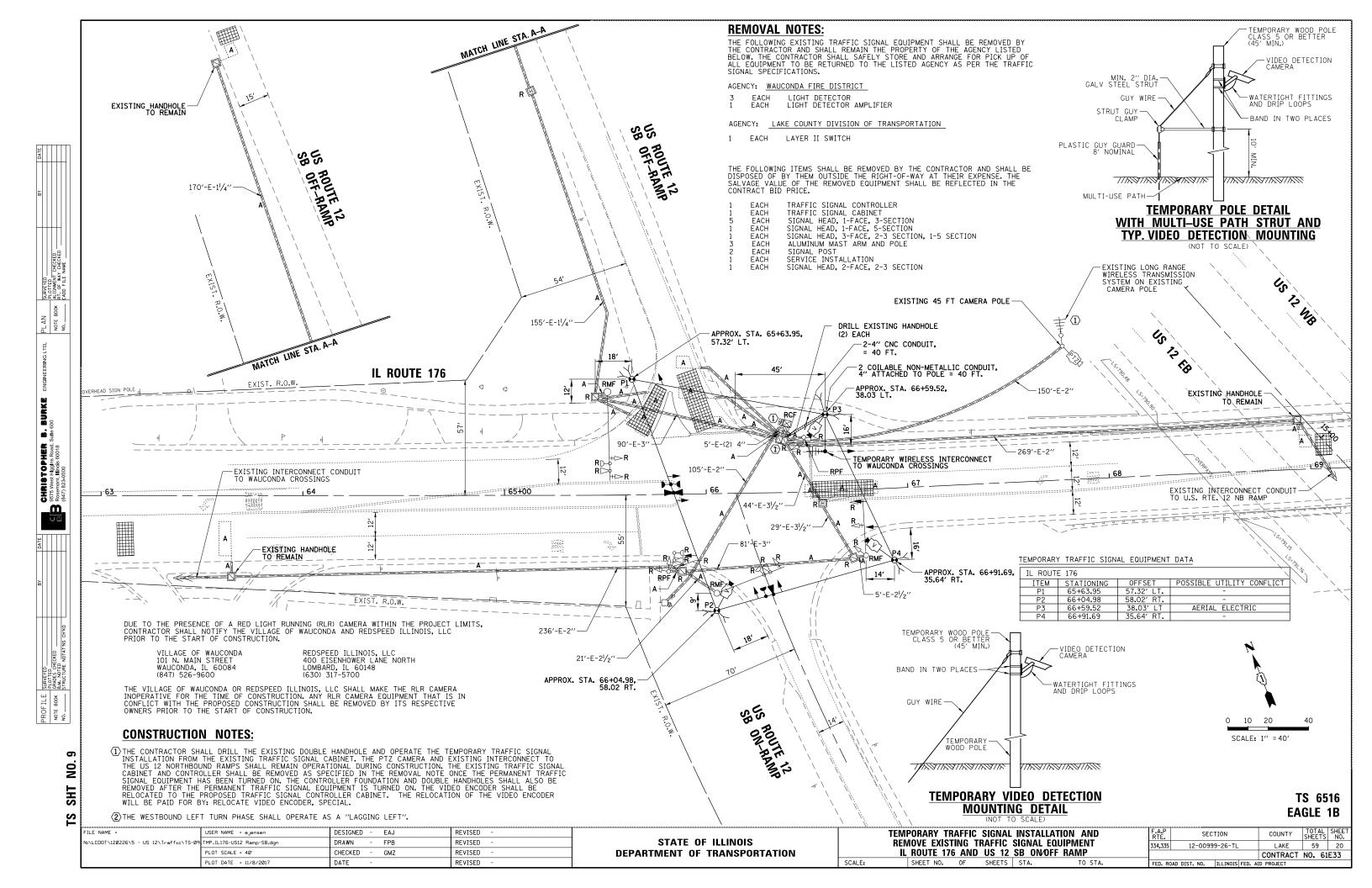
STANDARD ALPHABETS SPACING CHART

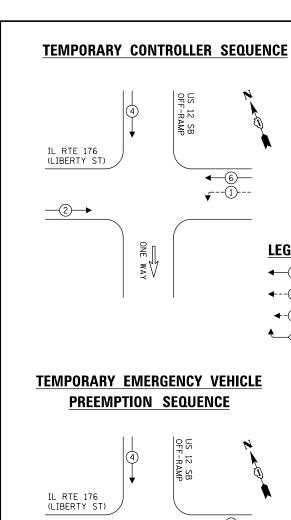
(8") UPPER CASE AND (6") LOWER CASE

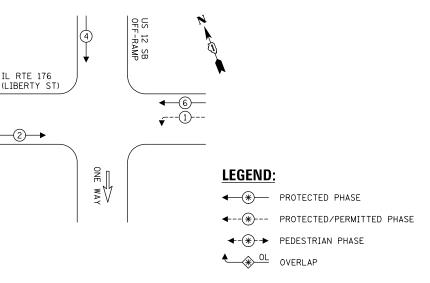
	FHWA SEF	RIES "C"		FHWA SERIES "D"					
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		
Α	0.240	5.122	0.240	Α	0. 240	6.804	0. 240		
В	0.880	4.482	0.480	В	0.960	5.446	0.400		
С	0.720	4.482	0.720	С	0.800	5.446	0.800		
D	0.880	4.482	0.720	D	0.960	5.446	0.800		
E	0.880	4.082	0.480	E	0.960	4.962	0.400		
F	0.880	4.082	0.240	F	0.960	4.962	0.240		
G	0.720	4.482	0.720	G	0.800	5. 446	0.800		
H	0.880	4.482	0.880	H	0.960	5.446	0.960		
I	0.880	1.120	0.880	I	0.960	1.280	0.960		
J K	0.240	4.082	0.880	J K	0.240 0.960	5.122	0.960		
L	0.880 0.880	4.482 4.082	0.480	L	0.960	5.604 4.962	0.400		
M	0.880	5. 284	0.880	М	0.960	6. 244	0.960		
N	0.880	4. 482	0.880	N	0.960	5.446	0.960		
0	0.720	4. 722	0.720	0	0.800	5. 684	0.800		
P	0.880	4. 482	0.720	P	0.960	5.446	0.240		
Q.	0.720	4. 722	0.720	a	0.800	5. 684	0.800		
R	0.880	4. 482	0.480	R	0.960	5. 446	0.400		
S	0.480	4.482	0.480	5	0.400	5.446	0.400		
T	0.240	4.082	0.240	T	0.240	4.962	0.240		
U	0.880	4.482	0.880	U	0.960	5.446	0.960		
٧	0.240	4.962	0.240	٧	0.240	6.084	0.240		
W	0.240	6.084	0.240	W	0.240	7.124	0.240		
X	0.240	4.722	0.240	X	0.400	5.446	0.400		
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240		
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400		
0	0.320	3.842	0.640	0	0.400	4.562	0.720		
b	0.720	4.082	0.480	b	0.800	4.802	0.480		
d	0.480	4.002	0.240	C	0.480	4.722	0.240		
	0.480 0.480	4.082 4.082	0.720	d	0.480 0.480	4.802 4.722	0.800		
e f	0. 320	2. 480	0. 160	e f	0. 320	2.882	0. 160		
g	0. 480	4. 082	0. 720	g	0. 480	4.802	0.800		
h	0.720	4. 082	0.640	h	0.800	4. 722	0.720		
i	0. 720	1.120	0.720	ï	0.800	1. 280	0.800		
j	0.000	2. 320	0.720	j	0.000	2.642	0.800		
k	0. 720	4. 322	0.160	ĸ	0.800	5.122	0.160		
	0.720	1.120	0.720	I	0.800	1.280	0.800		
m	0.720	6. 724	0.640	m	0.800	7. 926	0.720		
п	0.720	4.082	0.640	п	0.800	4.722	0.720		
0	0.480	4.082	0.480	0	0.480	4.882	0.480		
P	0.720	4.082	0.480	P	0.800	4.802	0.480		
Q	0.480	4.082	0.720	a	0.480	4.802	0.800		
г	0.720	2.642	0.160	r	0.800	3.042	0.160		
S	0.320	3. 362	0.240	S	0.320	3. 762	0.240		
†	0.080	2.882	0.080	†	0.080	3. 202	0.080		
U	0.640	4.082	0.720	U	0.720	4. 722	0.800		
٧	0.160	4. 722	0.160	٧	0.160	5.684	0.160		
W	0.160	7. 524	0.160	W	0.160	9.046	0.160		
×	0.000	5. 202 4. 962	0.000	×	0.000	6. 244	0.000		
<u>у</u>	0.160 0.240	3. 362	0.160	У 7	0.160 0.240	6.004 4.002	0. 240		
1 1	0.720	1.680	0.880	2 1	0. 240	2.000	0. 240		
2	0. 120	4. 482	0.480	2	0.800	5.446	0.800		
3	0. 480	4. 482	0.480	3	1.440	5.446	0.800		
4	0. 240	4. 962	0.720	4	0.160	6.004	0.960		
5	0.480	4. 482	0.480	5	0.800	5.446	0.800		
6	0. 720	4. 482	0.720	6	0.800	5.446	0.800		
7	0. 240	4.482	0.720	7	0.560	5.446	0.560		
8	0.480	4.482	0.480	8	0.800	5.446	0.800		
9	0.480	4.482	0.480	9	0.800	5. 446	0.800		
0	0.720	4. 722	0.720	0	0.800	5.684	0.800		
-	0.240	2.802	0.240	-	0.240	2.802	0.240		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

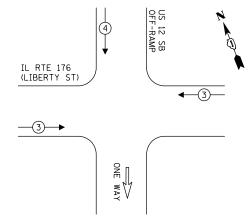
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TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL RTE 176 (LIBERTY ST)	Ļ	MP **	-3-
<u>-3</u> →	ONE WAY		

ELECTRICA		C SIGN. /ICE RE		NTS	
	NO. OF	LED	7.	TOTAL	

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
		-	TOTAL =	386.1

ENERGY COSTS TO:

<u>S</u>

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1

201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT:_ PHONE:_

COMPANY: COMMONWEALTH EDISON

-EXISTING WIRELESS TRANSMISSION SYSTEM LONG RANGE ON EXISTING CAMERA POLE -EXISTING INTERCONNECT TO US 12 NORTHBOUND RAMPS -TEMPORARY WIRELESS INTERCONNECT TO WAUCONDA CROSSINGS ດ ≺ ѫ-(3#20) - C > U \ \ \ ର ≺ ਸ਼ ດ ≺ z **IL ROUTE 176**

TEMPORARY CABLE PLAN

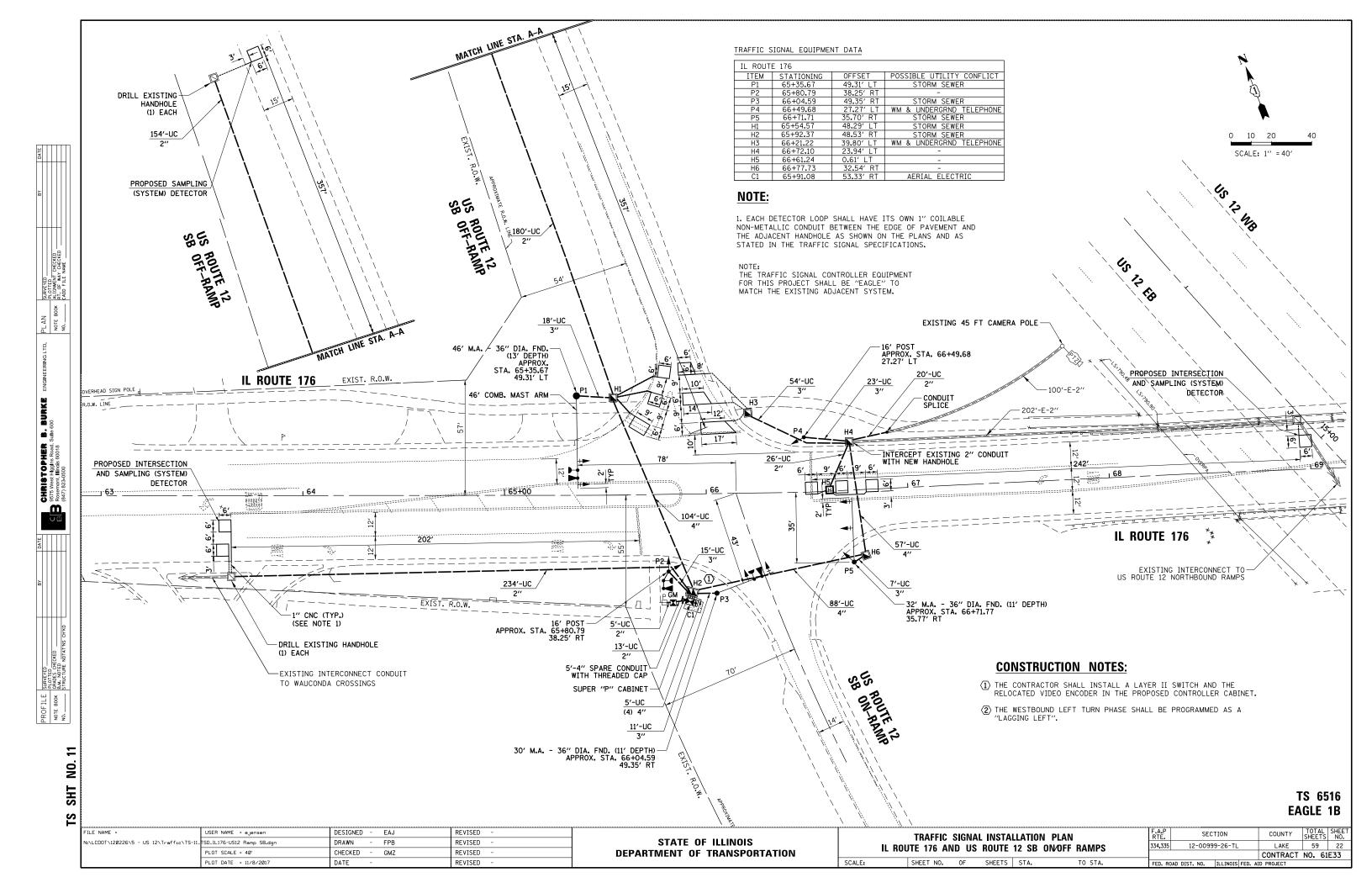
NOT TO SCALE

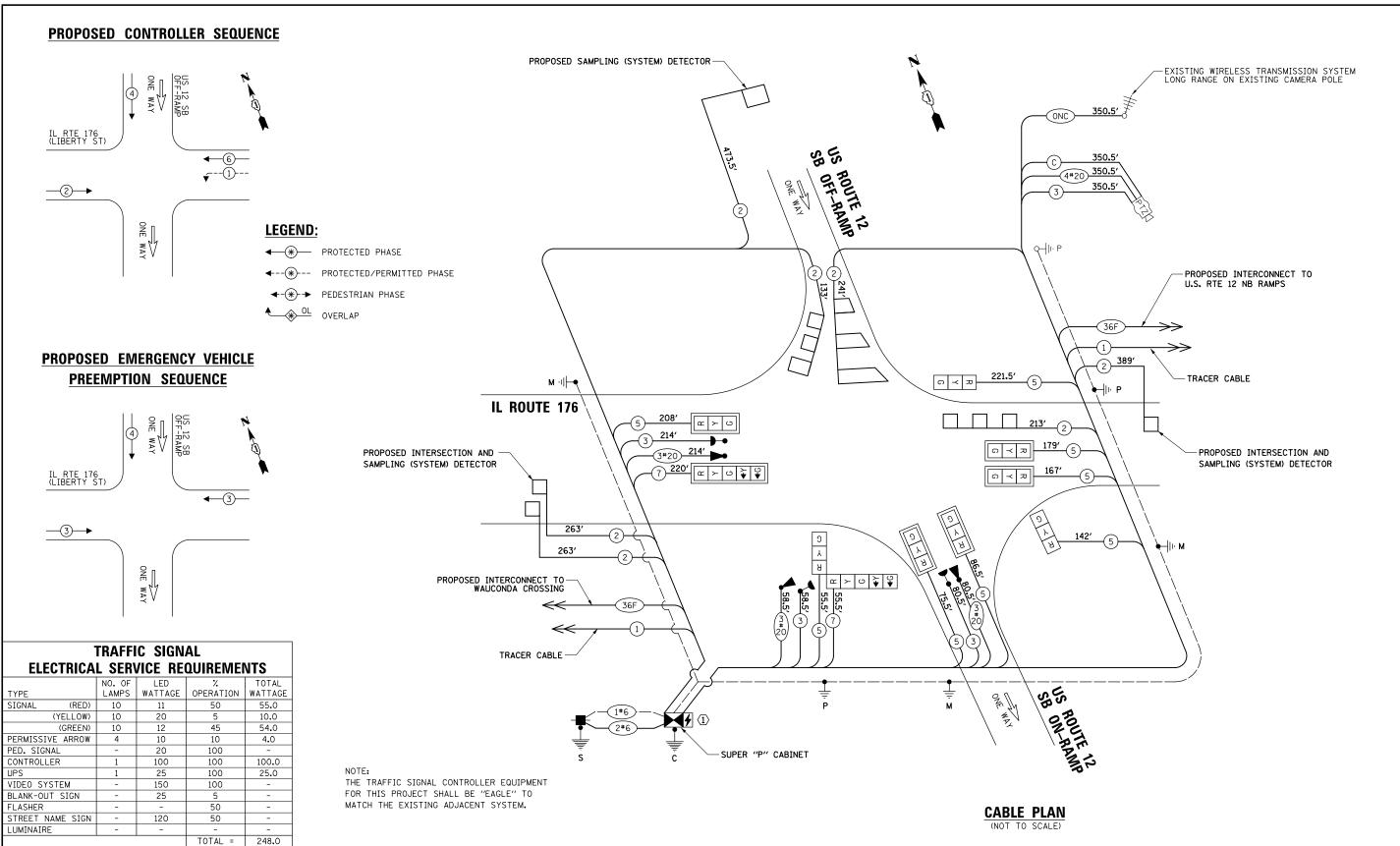
CONSTRUCTION NOTES:

- (1) THE CONTRACTOR SHALL DRILL THE EXISTING DOUBLE HANDHOLE AND OPERATE THE TEMPORARY TRAFFIC SIGNAL INSTALLATION FROM THE EXISTING TRAFFIC SIGNAL CABINET. THE PTZ CAMERA AND EXISTING INTERCONNECT TO THE US 12 NORTHBOUND RAMPS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE REMOVED AS SPECIFIED IN THE REMOVAL NOTE ONCE THE PERMANENT TRAFFIC SIGNAL EQUIPMENT HAS BEEN TURNED ON. THE CONTROLLER FOUNDATION AND DOUBLE HANDHOLES SHALL ALSO BE REMOVED AFTER THE PERMANENT TRAFFIC SIGNAL EQUIPMENT IS TURNED ON. THE VIDEO ENCODER SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET. THE RELOCATION OF THE VIDEO ENCODER WILL BE PAID FOR BY: RELOCATE VIDEO ENCODER, SPECIAL.
- (2) THE WESTBOUND LEFT TURN PHASE SHALL OPERATE AS A "LAGGING LEFT".

TS 6516 **EAGLE 1B**

TS		COMMONWEALTH EDISON								EA	GLE IB
	FILE NAME =	USER NAME = ejensen	DESIGNED -	EAJ	REVISED -		TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRA	M F.A.P	SECTION	COUNTY	TOTAL SHEET
	N:\LCDOT\120226\5 - US 12\Traffic\TS-10	TCB_IL176-US12 Ramp-SB.dgn	DRAWN -	FPB	REVISED -	STATE OF ILLINOIS	AND TEMPORARY VEHICLE PREEMPTION SEQUENCE	334,33	12-00999-26-TL	LAKE	59 21
		PLOT SCALE = 40'	CHECKED -	GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 176 AND US 12 SB ON/OFF RAMPS		-	CONTRAC	NO. 61E33
		PLOT DATE = 11/8/2017	DATE -		REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. I	ROAD DIST. NO. ILLINOIS F	ED. AID PROJECT	





ENERGY COSTS TO:

<u>8</u>

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1

201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT:_ PHONE:_

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:_

DESIGNED - EAJ REVISED USER NAME = ejensen N:\LCDOT\120226\5 - US 12\Traffic\TS-12 CAB_IL176-US12 Ramp SB.don DRAWN - FPB REVISED PLOT SCALE = 40' CHECKED GMZ REVISED PLOT DATE = 11/8/2017 REVISED DATE

CONSTRUCTION NOTES:

 $\stackrel{\textstyle \longleftarrow}{}$ The contractor shall install a layer II switch and the relocated video encoder in the proposed controller cabinet.

(2) THE WESTBOUND LEFT TURN PHASE SHALL BE PROGRAMMED AS A

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

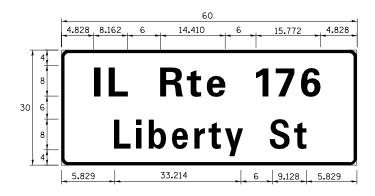
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION COUNTY LAKE 59 23 334,335 12-00999-26-TL IL ROUTE 176 AND SB RAMP CONTRACT NO. 61E33 SHEET NO. OF SHEETS STA.

TS 6516

EAGLE 1B

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



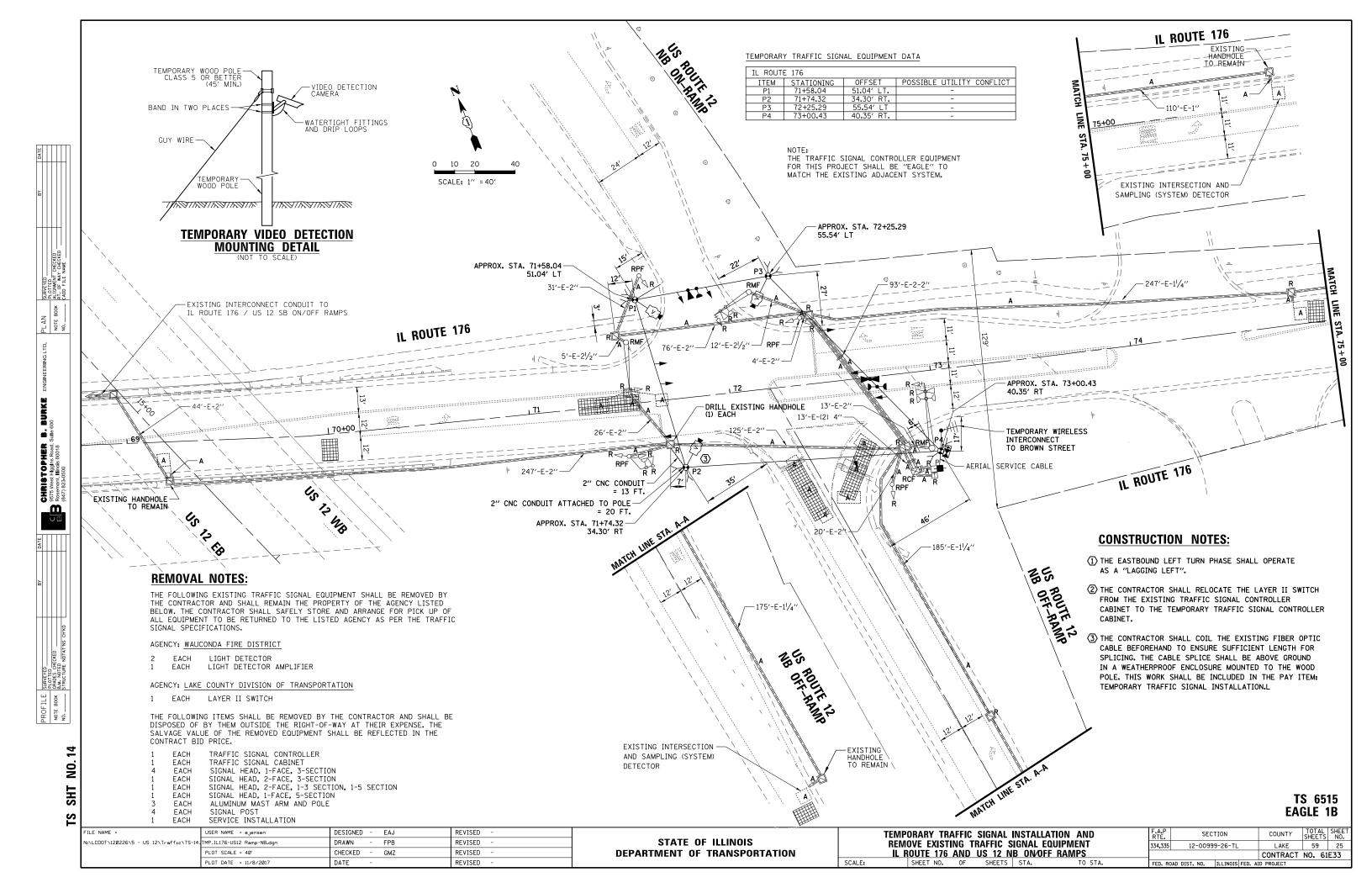
DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12, 5	2	77	1

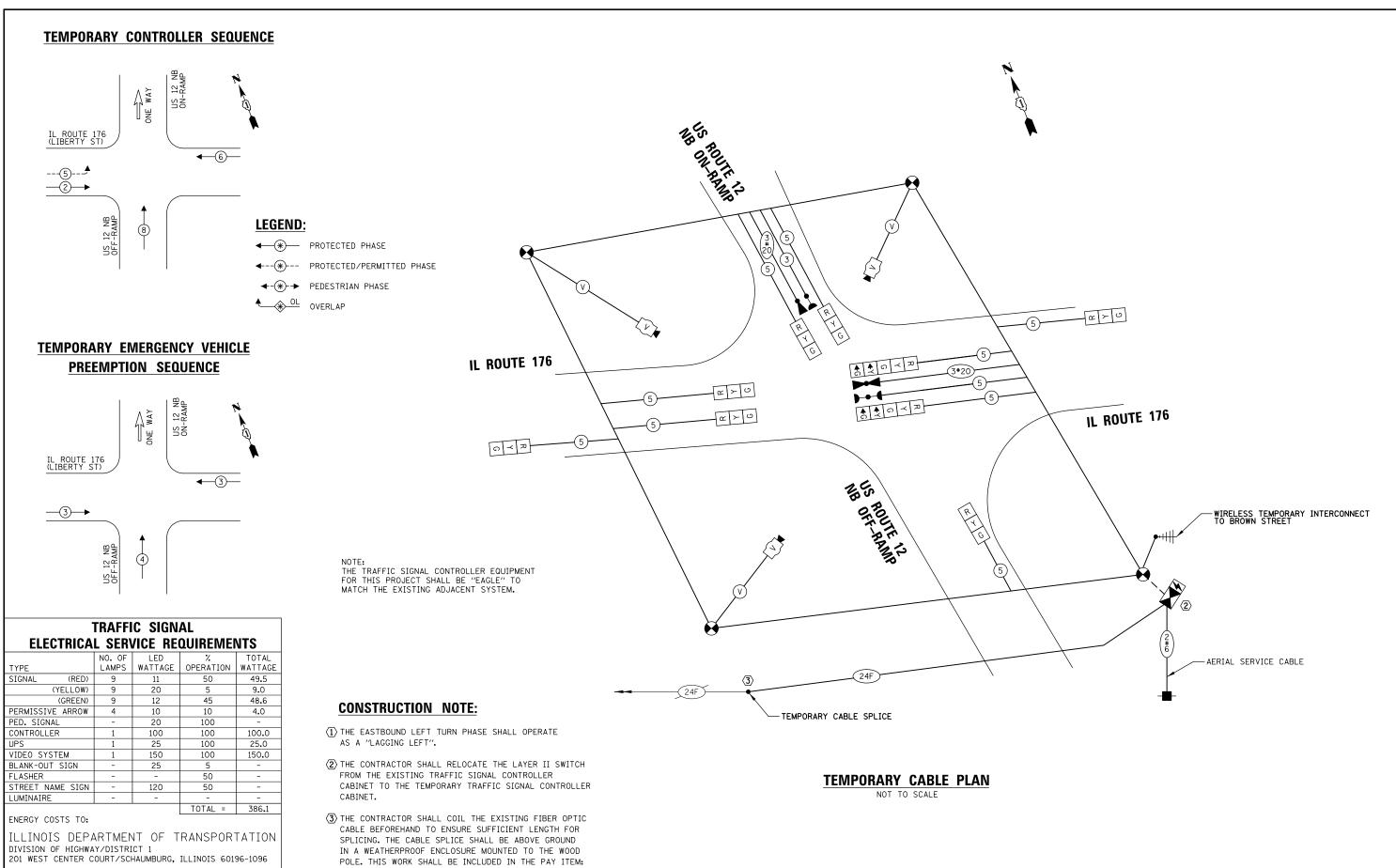
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTIT
SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	632
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	128
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	274
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	704
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,135
ELECTRIC CABLE IN CONDUIT. SIGNAL NO. 14 7C	FOOT	276
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,713
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	57
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	510
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE. 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, 11 FE A	FOOT	4
,	FOOT	35
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER		
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	433
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	354
ROD AND CLEAN EXISTING CONDUIT	FOOT	302
RELOCATE EXISTING VIDEO ENCODER. SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
CONDUIT SPLICE	EACH	1
UNINTERRUPTABLE POWER SUPPLY. SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	351
ELECTRIC CABLE IN CONDUIT, COAXIAL ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	351
		351
LAYER II (DATALINK) SWITCH	EACH	
OUTDOOR RATED NETWORK CABLE	FOOT	351
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TS 6516 EAGLE 1B

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -		M	IAST ARM MOUNTED STREET NAME SIGNS	F.A.P SECTION	COUNTY TOTAL SHEET
N:\LCDOT\120226\5 - US 12\Traffic\TS-13.	CAB_IL176-US12 Ramp SB-2.dgn	DRAWN - FPB	REVISED -	STATE OF ILLINOIS		AND SCHEDULE OF QUANTITIES	334,335 12-00999-26-TL	LAKE 59 24
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 176 AND SB RAMP		CONTRACT NO. 61E33
	PLOT DATE = 11/8/2017	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AI	ID PROJECT





15 <u>8</u>

ENERGY SUPPLY: CONTACT:_

PHONE:_

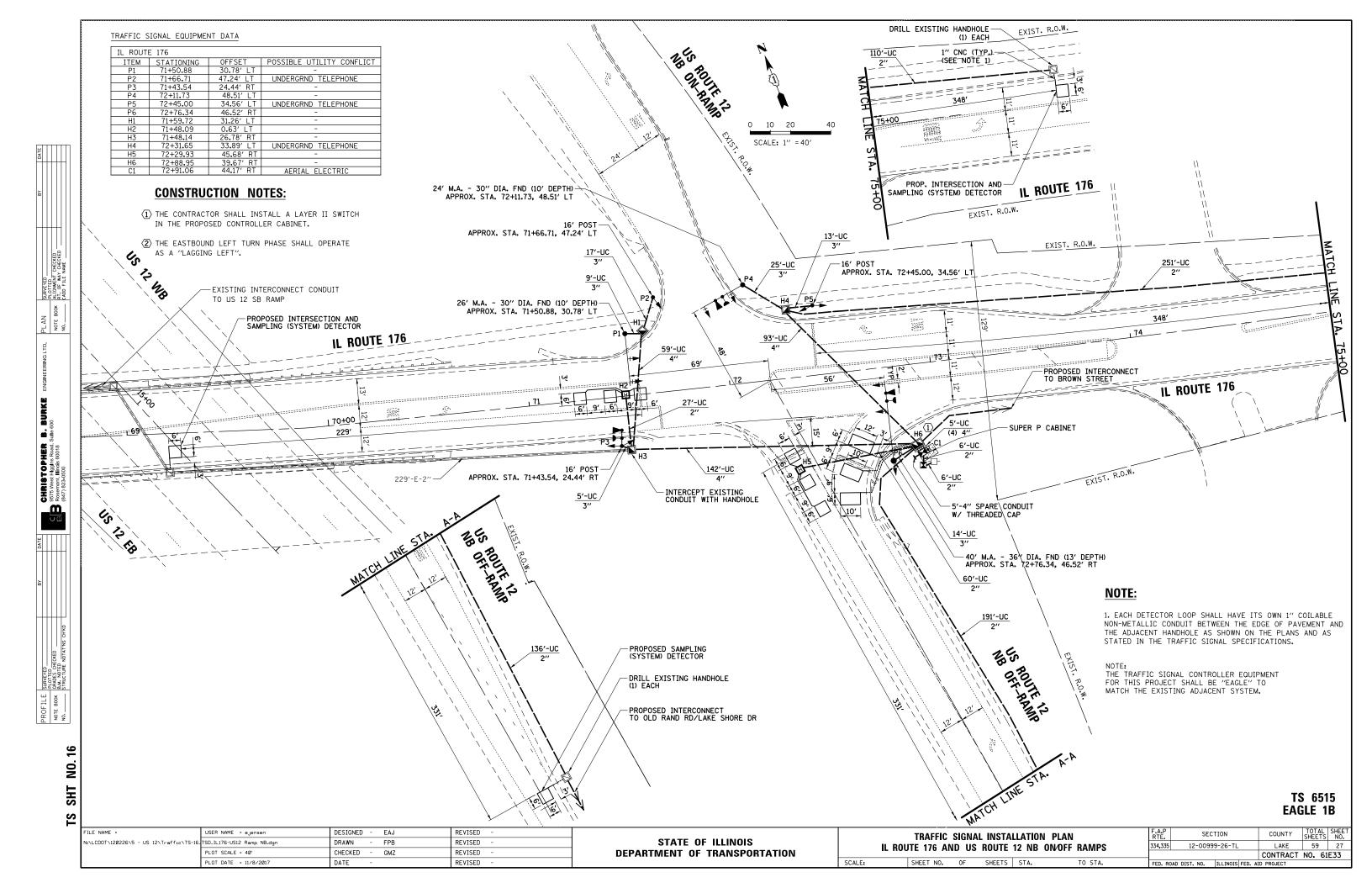
COMPANY: COMMONWEALTH EDISON

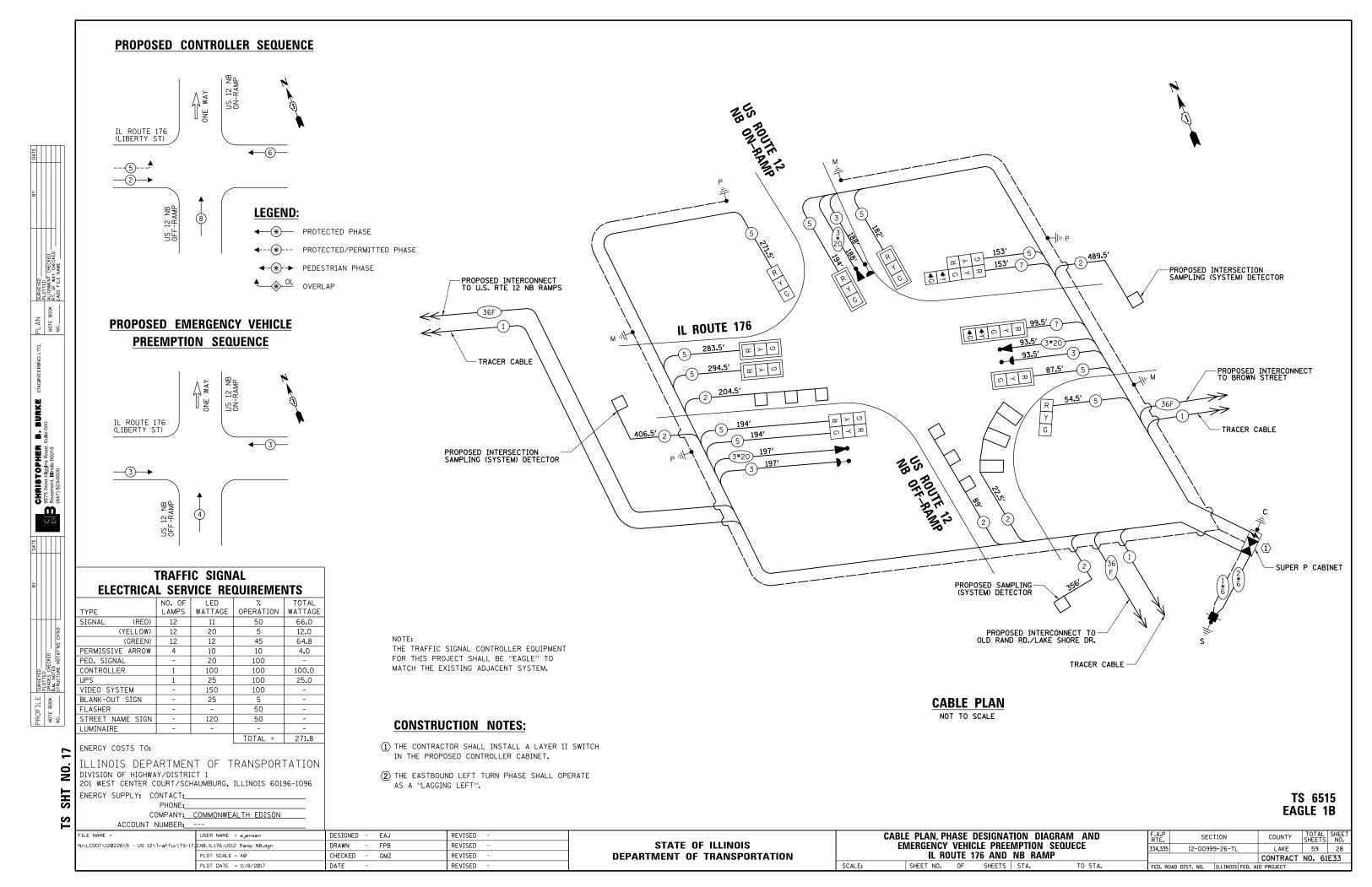
ACCOUNT NUMBER: ____ TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM DESIGNED - EAJ REVISED USER NAME = ejensen COUNTY SECTION AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE STATE OF ILLINOIS N:\LCDOT\120226\5 - US 12\Traffic\TS-15_TCB_IL176-US12 Ramp-NB.don DRAWN - FPB REVISED LAKE 59 26 334,335 12-00999-26-TL IL ROUTE 176 AND US 12 NB ON/OFF RAMPS PLOT SCALE = 40' CHECKED GMZ REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 61E33 PLOT DATE = 11/8/2017 REVISED SHEET NO. OF SHEETS STA. DATE

TS 6515

EAGLE 1B

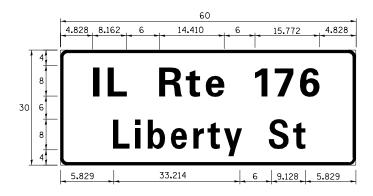
TEMPORARY TRAFFIC SIGNAL INSTALLATION,L





SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



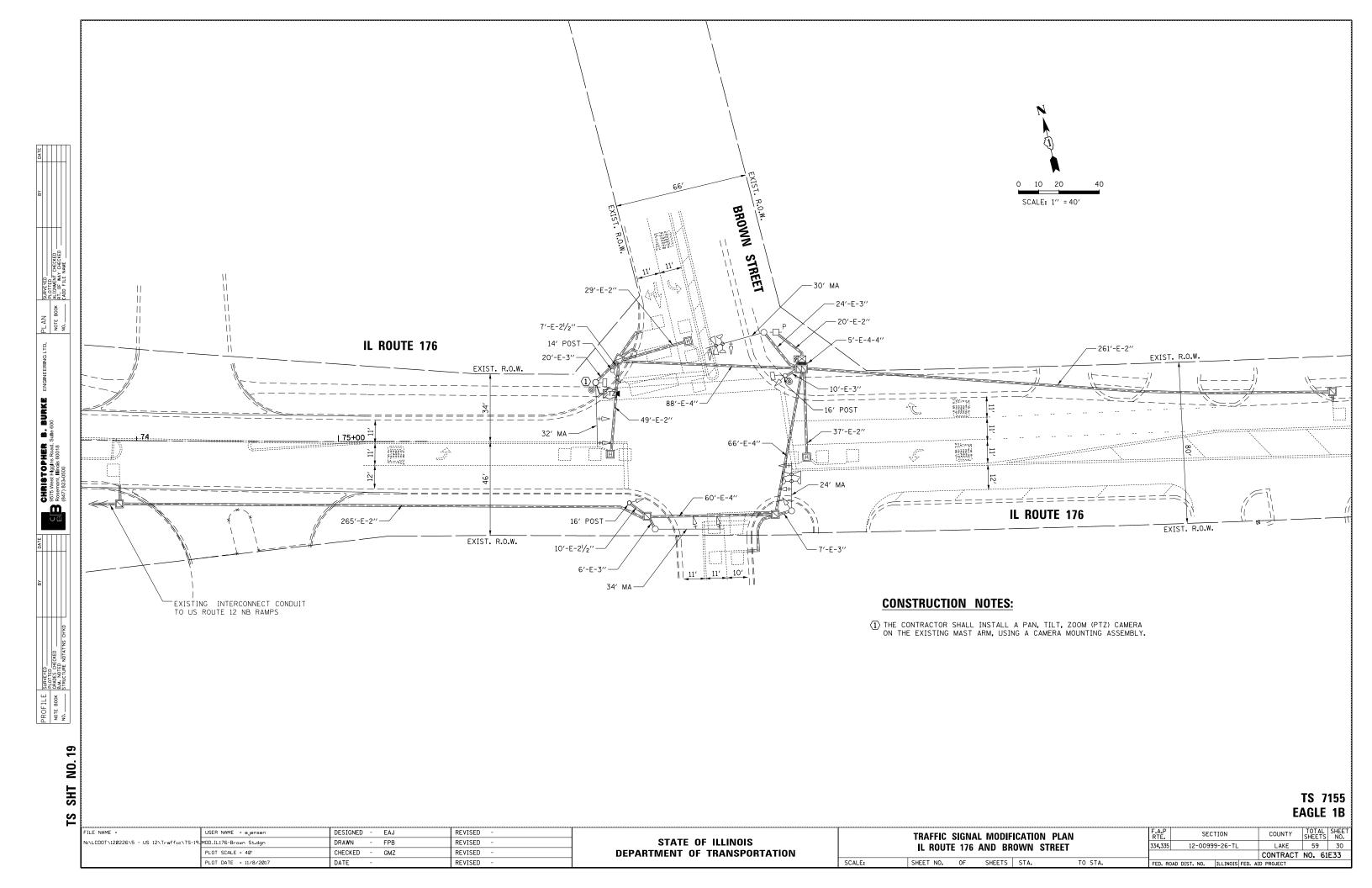
DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12,5	2	ZZ	1

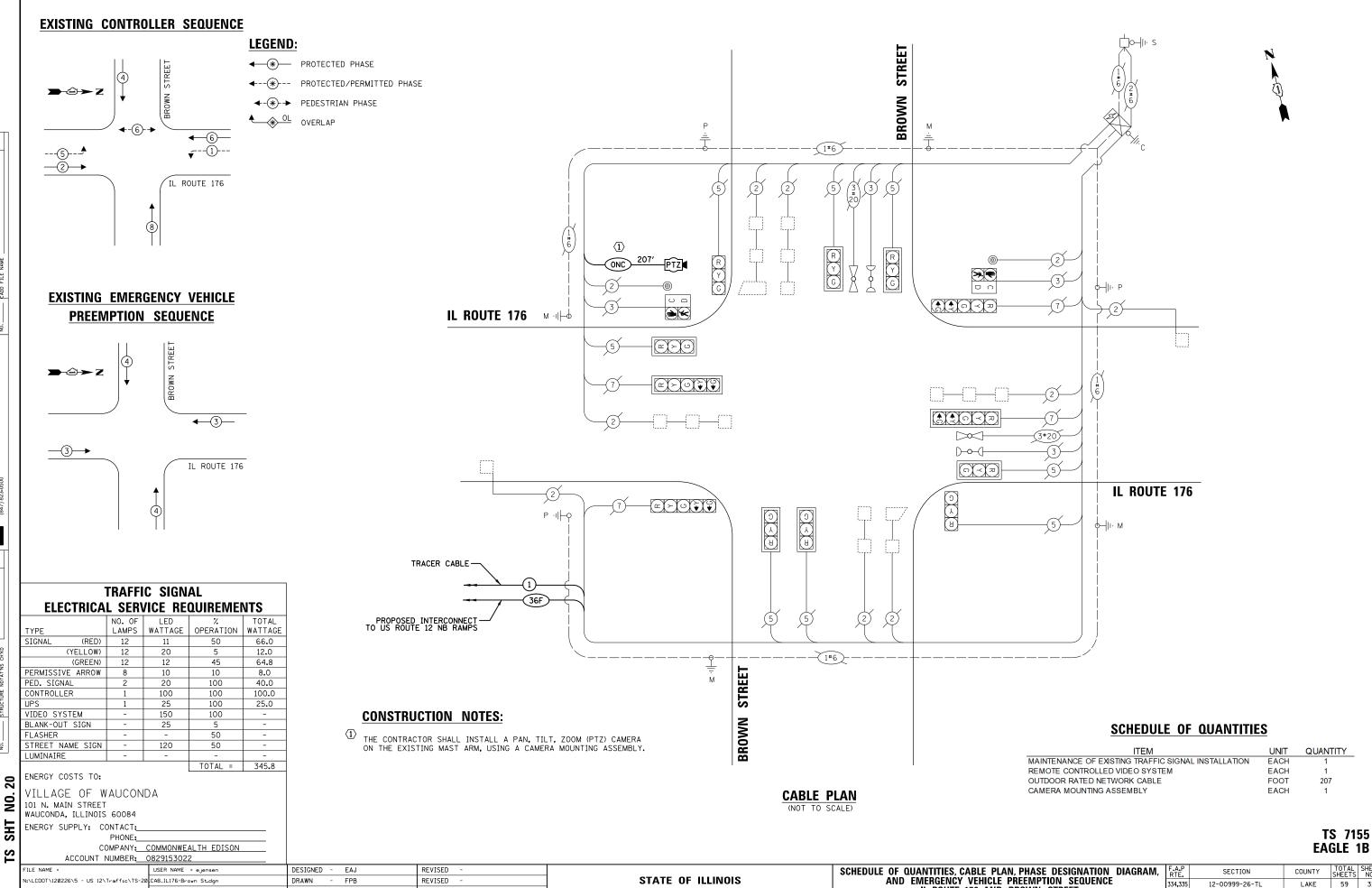
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	787
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	83
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	319
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	479
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,909
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	253
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,568
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	51
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	453
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	388
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	479
ROD AND CLEAN EXISTING CONDUIT	FOOT	229
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TS 6515 EAGLE 1B

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -		l N	MAST ARM MOUNTED STREET NAME SIGNS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEET
N:\LCDOT\120226\5 - US 12\Traffic\TS	8_CAB_IL176-US12 Ramp NB-2.dgn	DRAWN - FPB	REVISED -	STATE OF ILLINOIS		AND SCHEDULE OF QUANTITIES	334,335	12-00999-26-TL	LAKE	59 29
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 176 AND NB RAMP			CONTRACT	NO. 61E33
	PLOT DATE = 11/8/2017	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD D	DIST. NO. ILLINOIS FED. /	AID PROJECT	





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

LAKE 59 31

CONTRACT NO. 61E33

334,335

IL ROUTE 176 AND BROWN STREET

SHEET NO. OF SHEETS STA.

SCALE:

12-00999-26-TL

N:\LCDOT\120226\5 - US 12\Traffic\TS-20 CAB_IL176-Brown St.dgn

PLOT SCALE = 40'

PLOT DATE = 11/8/2017

DRAWN - FPB

GMZ

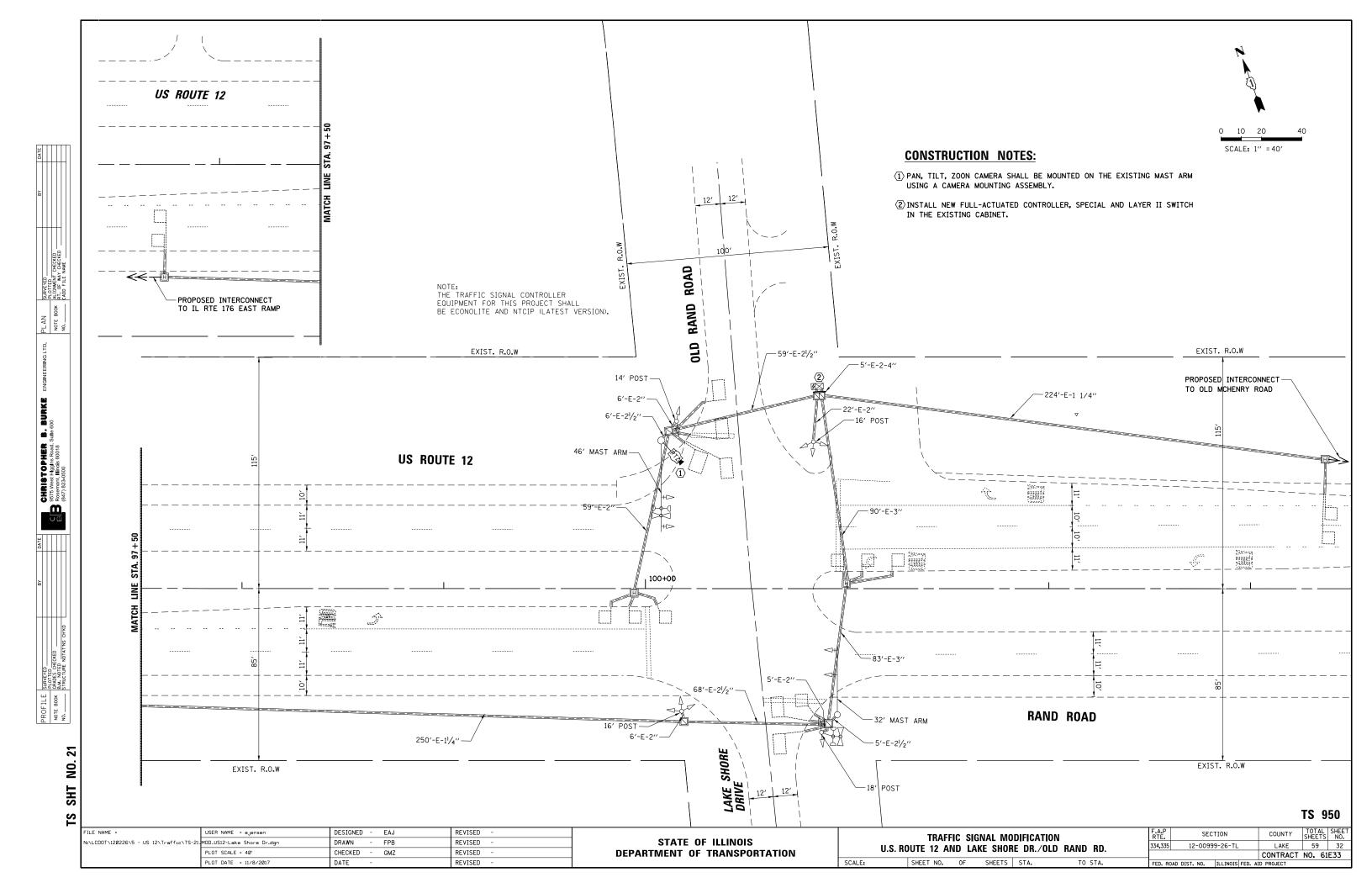
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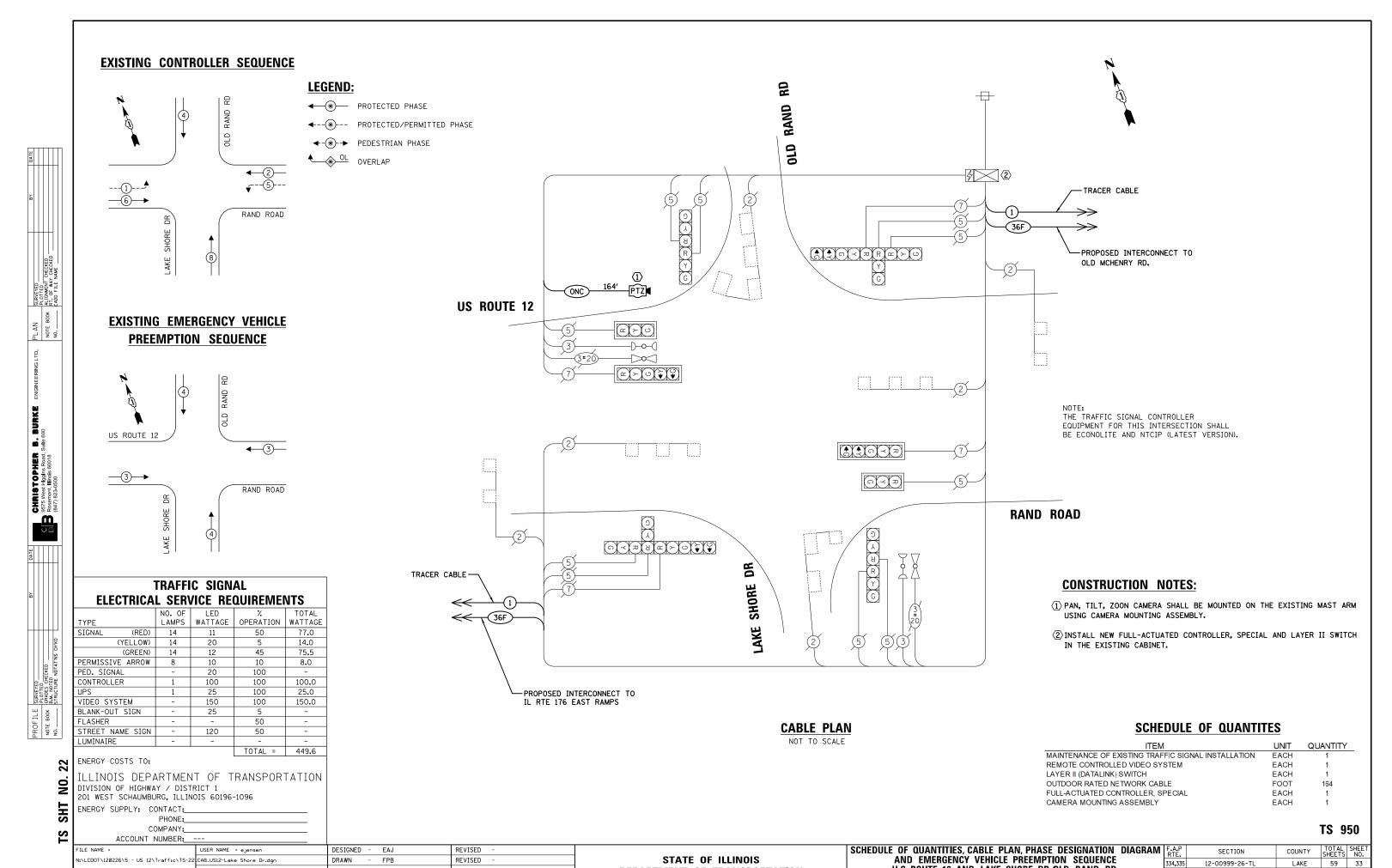
DATE

REVISED

REVISED

REVISED





DEPARTMENT OF TRANSPORTATION

LOT SCALE = 40'

PLOT DATE = 11/8/2017

CHECKED

DATE

GMZ

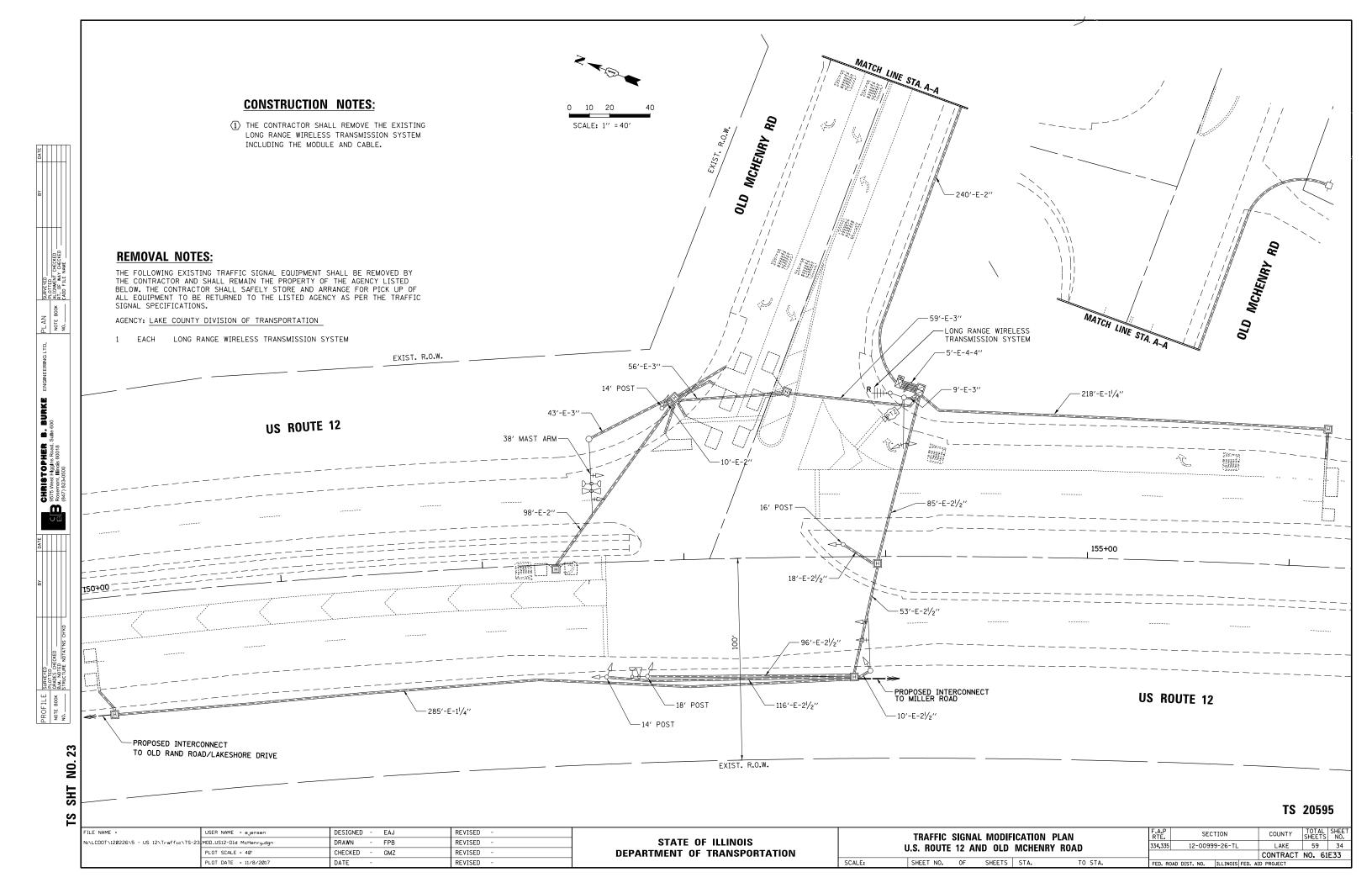
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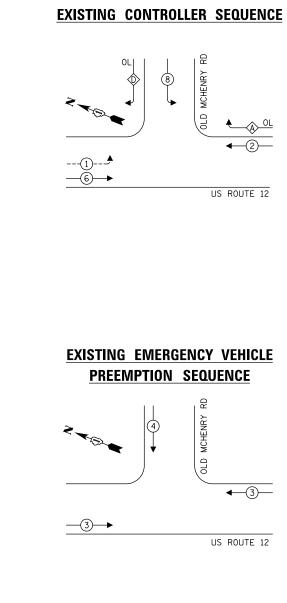
REVISED

U.S. ROUTE 12 AND LAKE SHORE DR./OLD RAND RD.

SHEET NO. OF SHEETS STA.

CONTRACT NO. 61E33





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	l LED	7.	IOIAL	
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE	
SIGNAL (RED)	12	11	50	66.0	
(YELLOW)	12	20	5	12.0	
(GREEN)	12	12	45	64.8	
PERMISSIVE ARROW	8	10	10	8.0	
PED. SIGNAL	-	20	100	-	
CONTROLLER	1	100	100	100.0	
UPS	1	25	100	25.0	
VIDEO SYSTEM	-	150	100	-	
BLANK-OUT SIGN	-	25	5	-	
FLASHER	-	-	50	-	
STREET NAME SIGN	-	120	50	-	
LUMINAIRE	-	-	-	-	
			TOTAL =	275.8	

ENERGY COSTS TO:

N_O

SHT

ILIINOIS DEPARTMENT OF TRANSPORTATION

ENERGY SUPPLY: CONTACT:_ PHONE:_ COMPANY:

LEGEND:

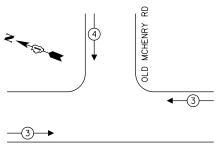
US ROUTE 12

◆ PROTECTED PHASE ◆--(*)--- PROTECTED/PERMITTED PHASE →
→ PEDESTRIAN PHASE ◆ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		PROTECTE
LETTER		PHASE		PHASE
Α	=	2	+	8
D	_	0	_	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



US	ROUTE	12

	110. 01	LLD	/•	IOIAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	275.8

AND LAKE COUNTY

OLD MCHENRY RD м⊣⊩б ∳∏I⊪м RB C US ROUTE 12 1)--0--(1 \rightarrow RB RB O Z US ROUTE 12 TRACER CABLE TRACER CABLE-PROPOSED INTERCONNECT TO MILLER RD. PROPOSED INTERCONNECT TO / OLD RAND RD. / LAKE SHORE DR. **CONSTRUCTION NOTES:** $\fbox{1}$ THE CONTRACTOR SHALL REMOVE THE EXISTING LONG RANGE WIRELESS TRANSMISSION SYSTEM

INCLUDING THE MODULE AND CABLE.

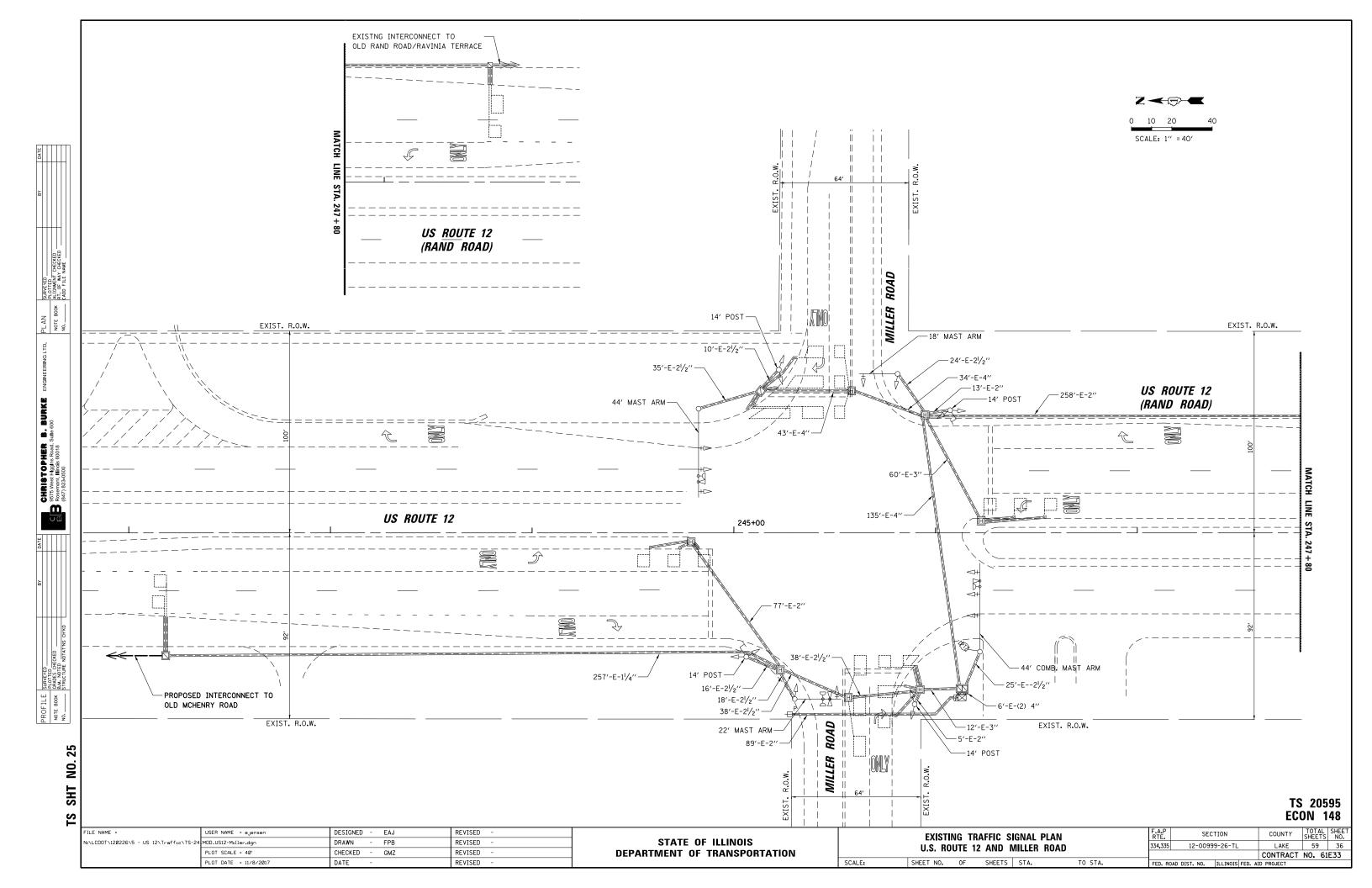
SCHEDULE OF QUANTITIES

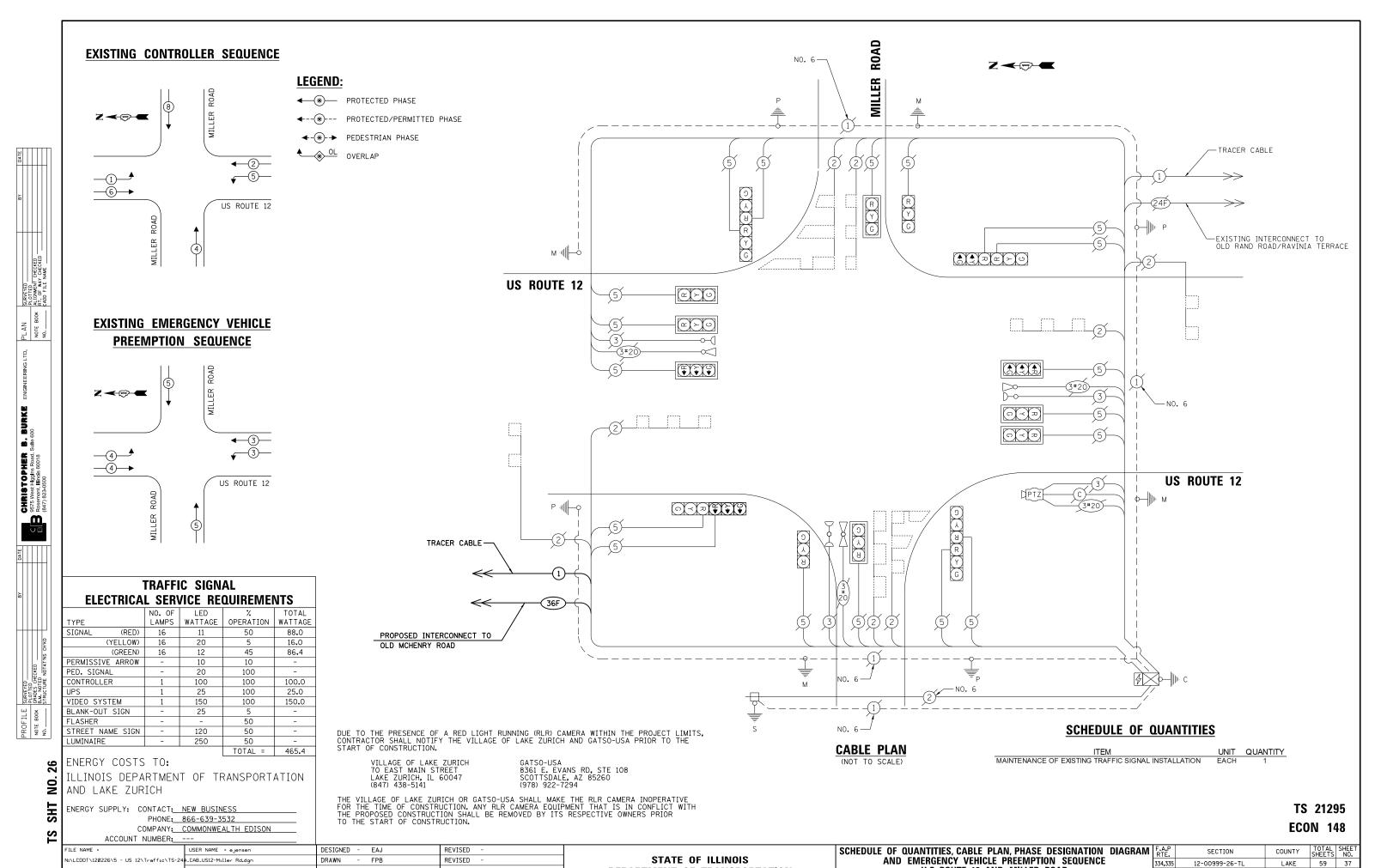
CABLE PLAN: NOT TO SCALE

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	78
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

TS 20595

TS	COMPANY: ACCOUNT NUMBER:															ı	\$ 20595
	ILE NAME =	USER NAME = ejensen	DESIGNED -	EAJ	REVISED -			OF QUANTITIES						F.A.P RTE.	SECTION	COUNTY	TOTAL SHEET
	l:\LCD0T\120226\5 - US 12\Traffic\TS-23	_CAB_US12-01d McHenry.dgn	DRAWN -	FPB	REVISED -	STATE OF ILLINOIS		AND EMERGEN						334,335	12-00999-26-TL	LAKE	59 35
		PLOT SCALE = 40'	CHECKED -	GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION		U.S. 12	2 AND	OLD N	/ICHE	NRY ROA	.D			CONTRAC	T NO. 61E33
L		PLOT DATE = 11/8/2017	DATE -		REVISED -		SCALE:	SHEET NO.	0F	SHEET	rs s	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT	





DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 12 AND MILLER ROAD

SHEET NO. OF SHEETS STA.

CONTRACT NO. 61E33

PLOT SCALE = 40'

PLOT DATE = 11/8/2017

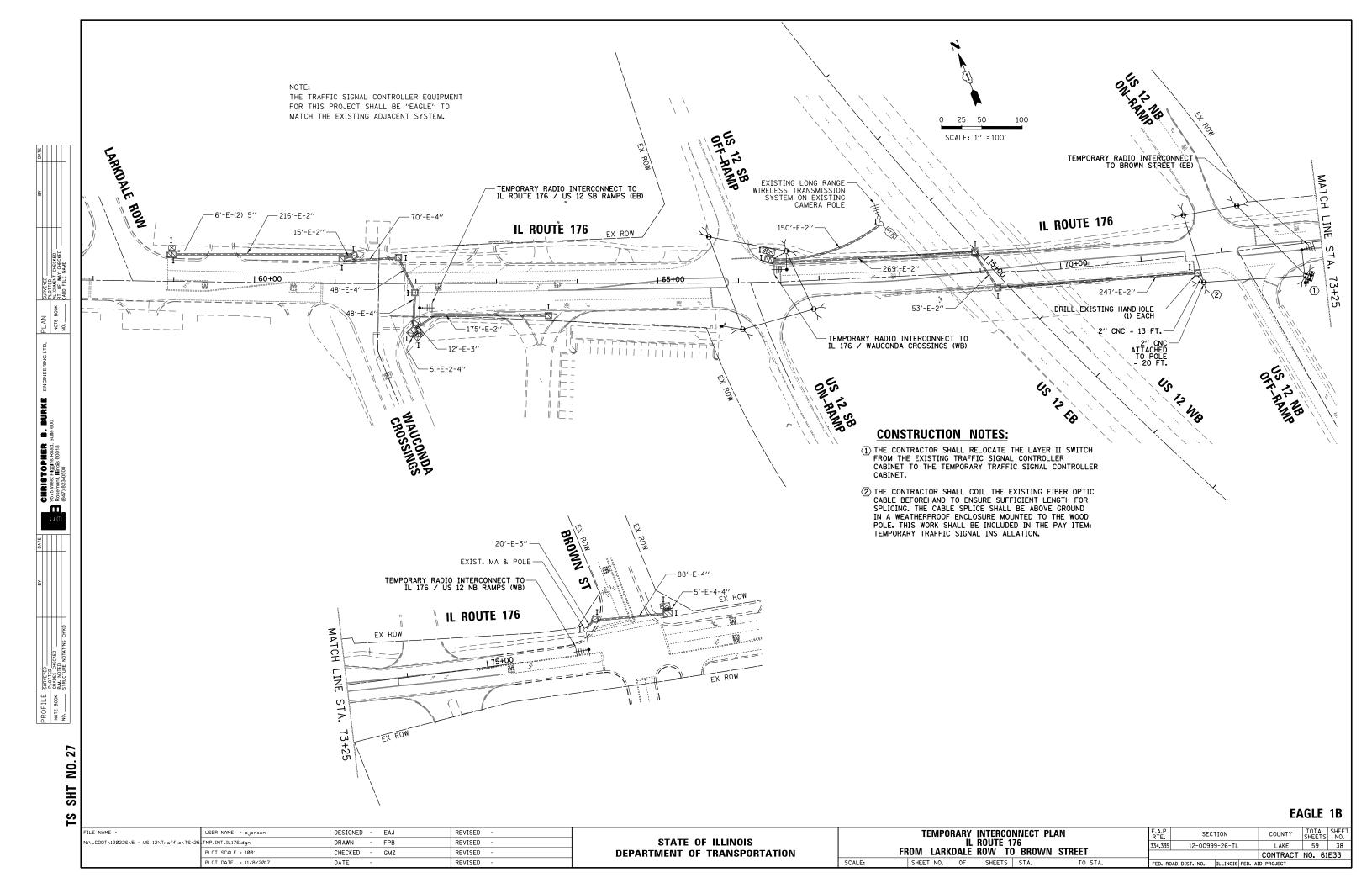
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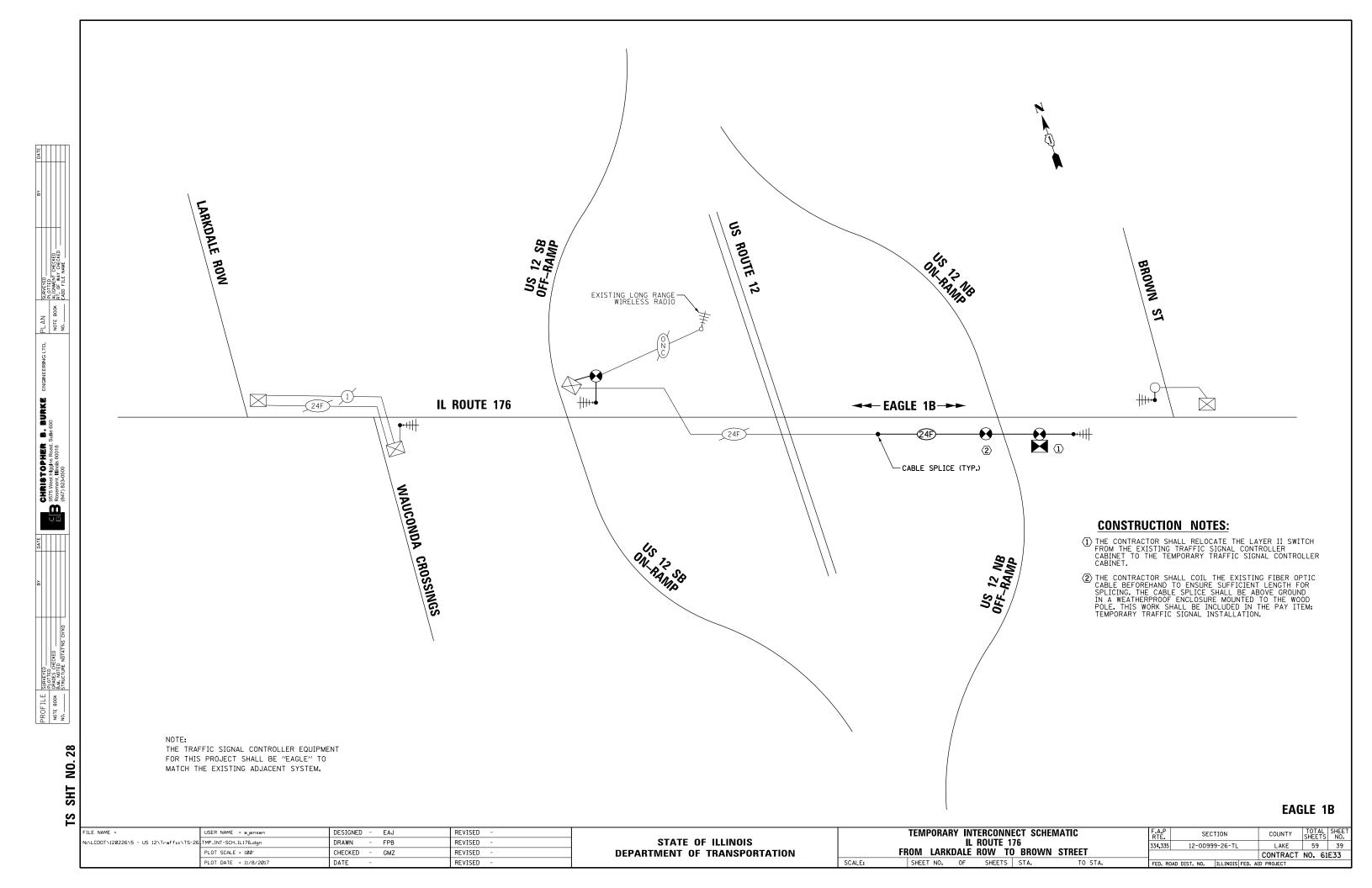
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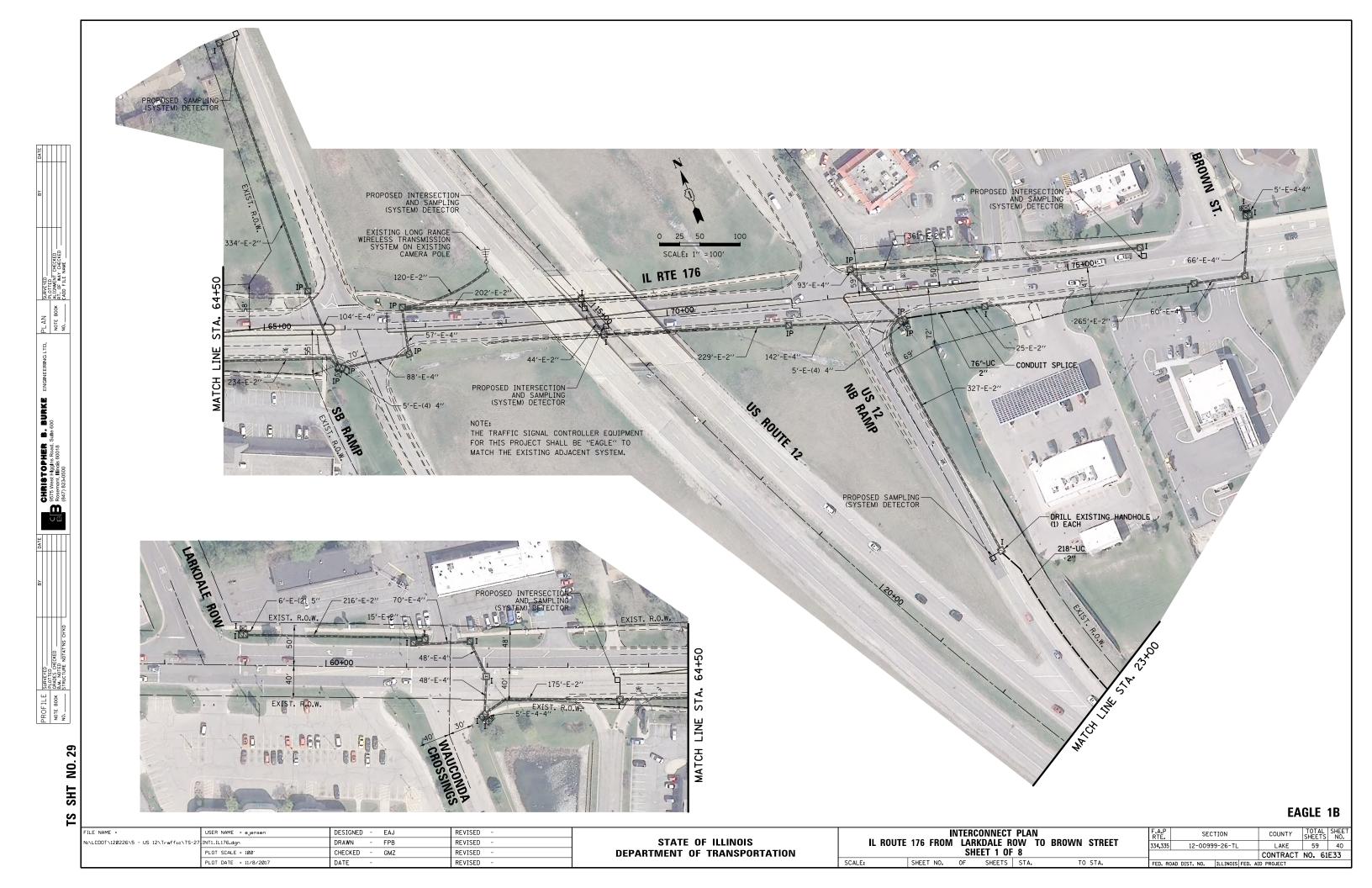
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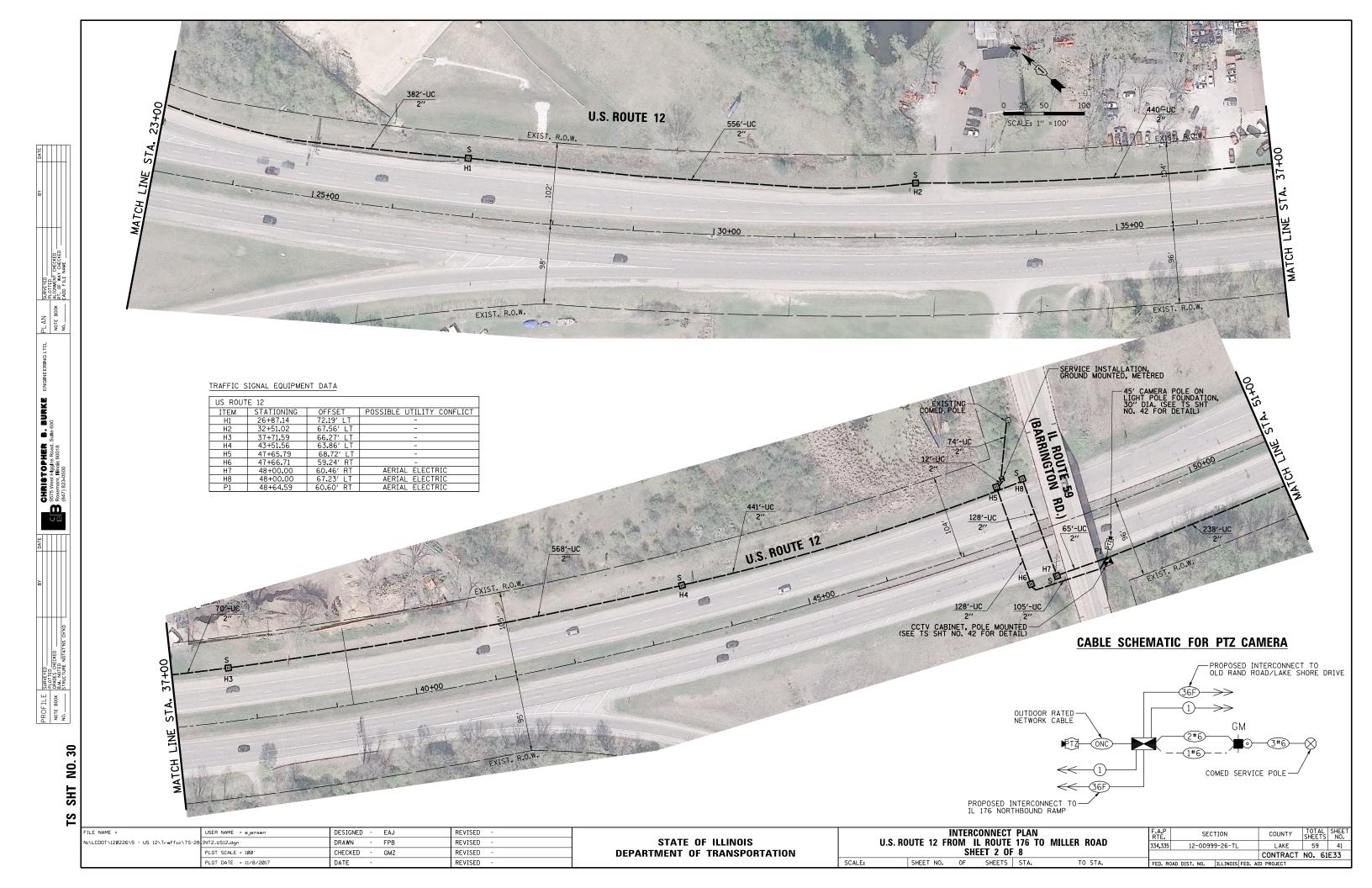
REVISED

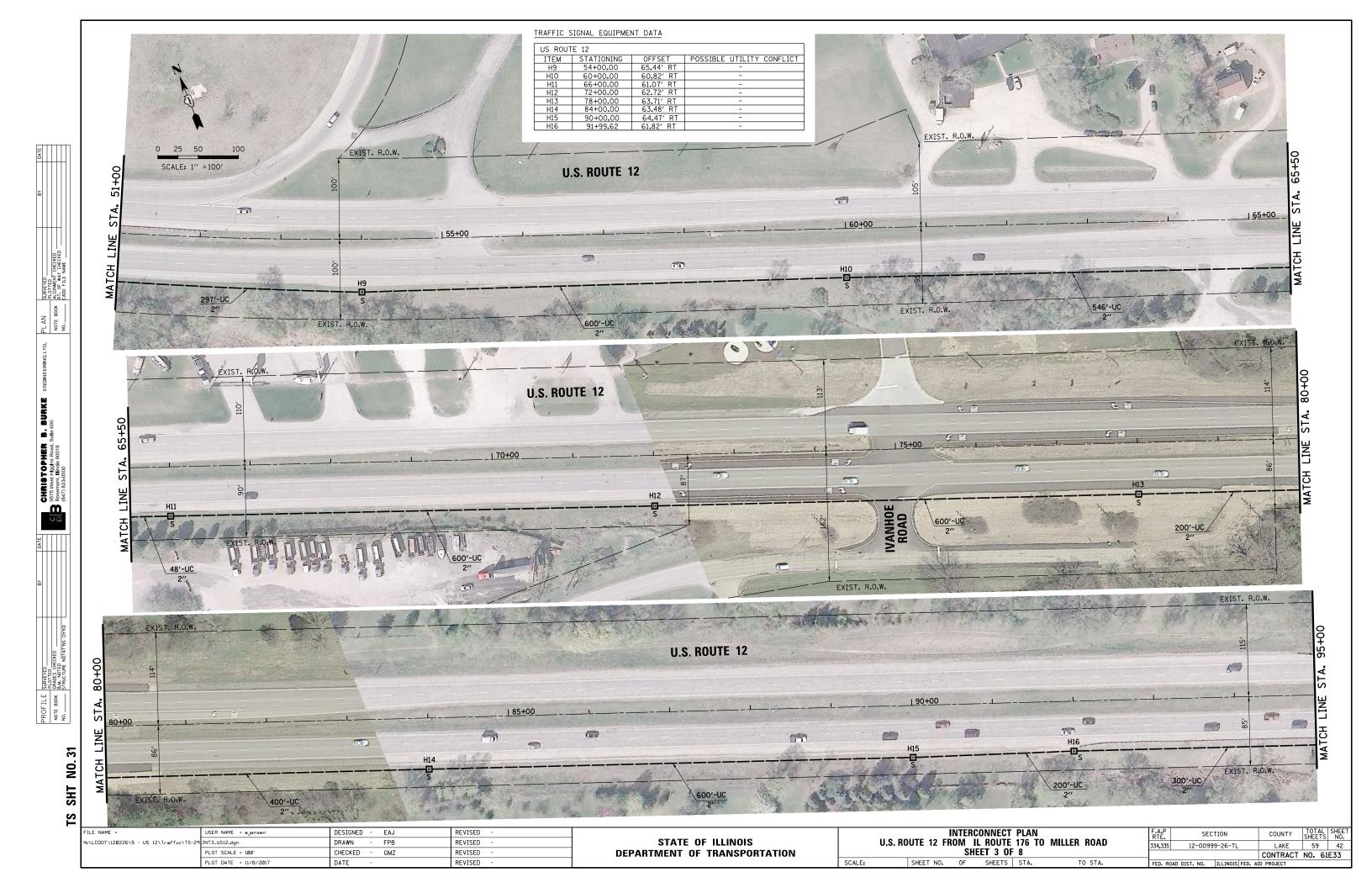
REVISED

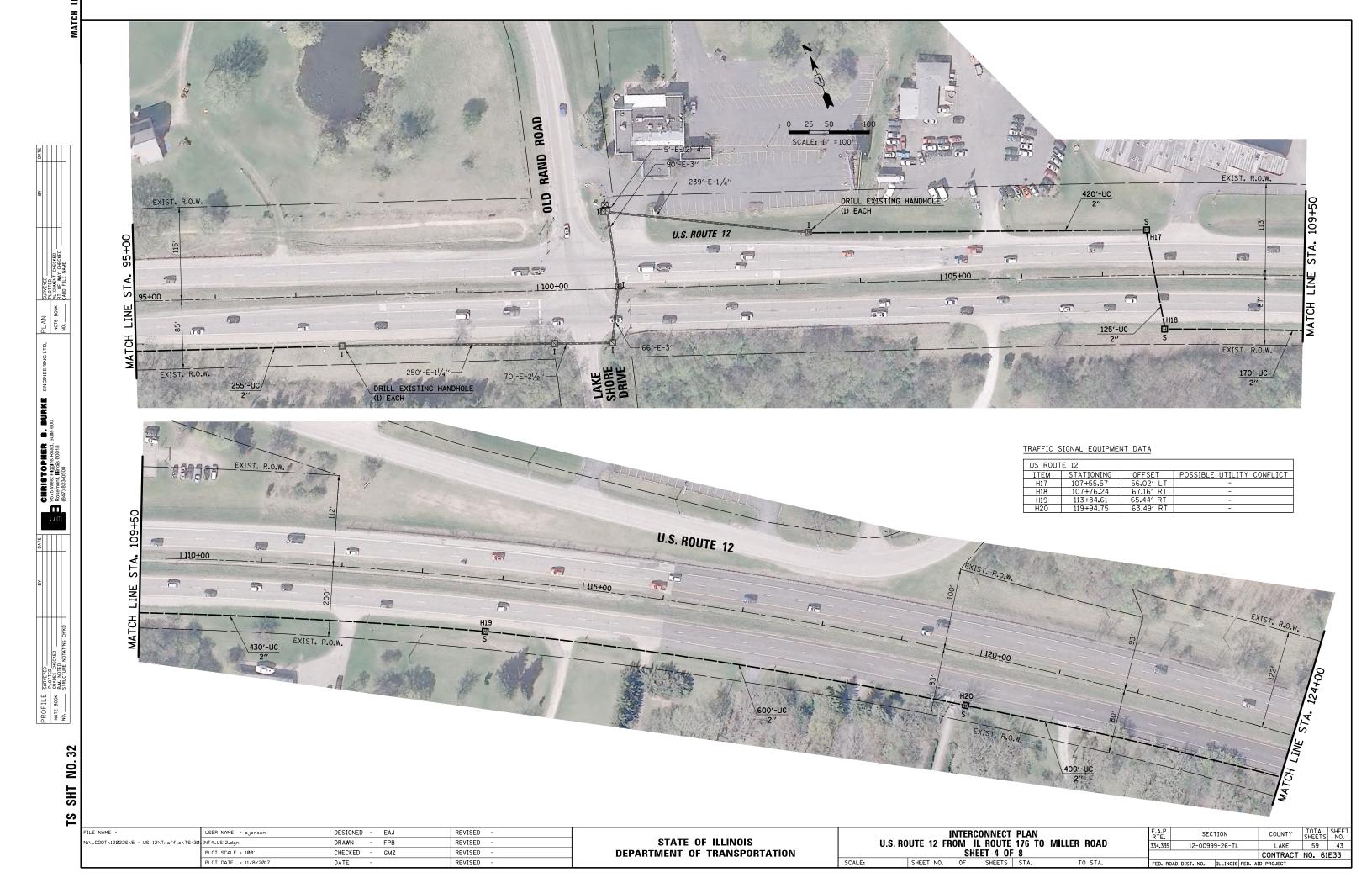


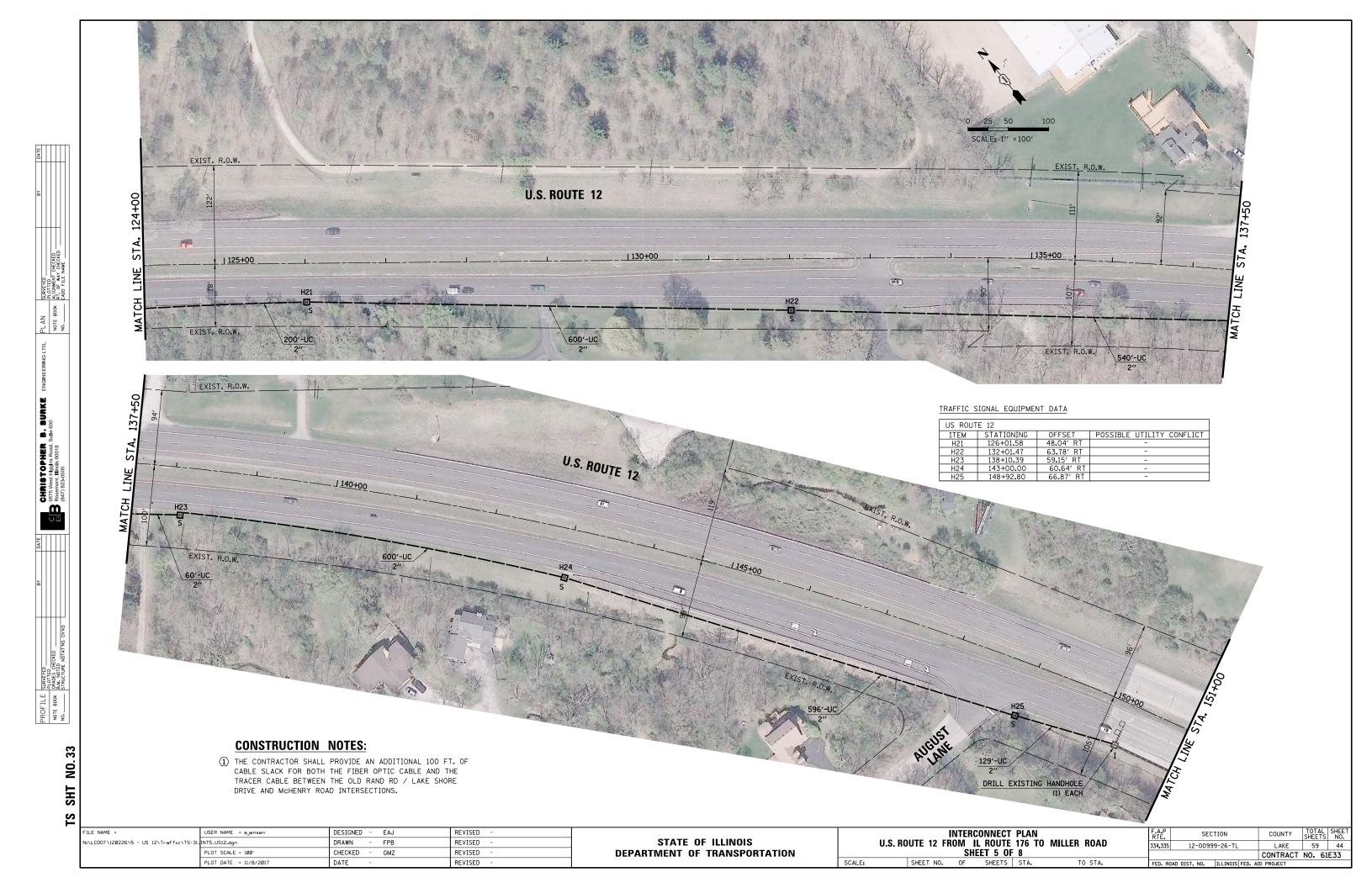


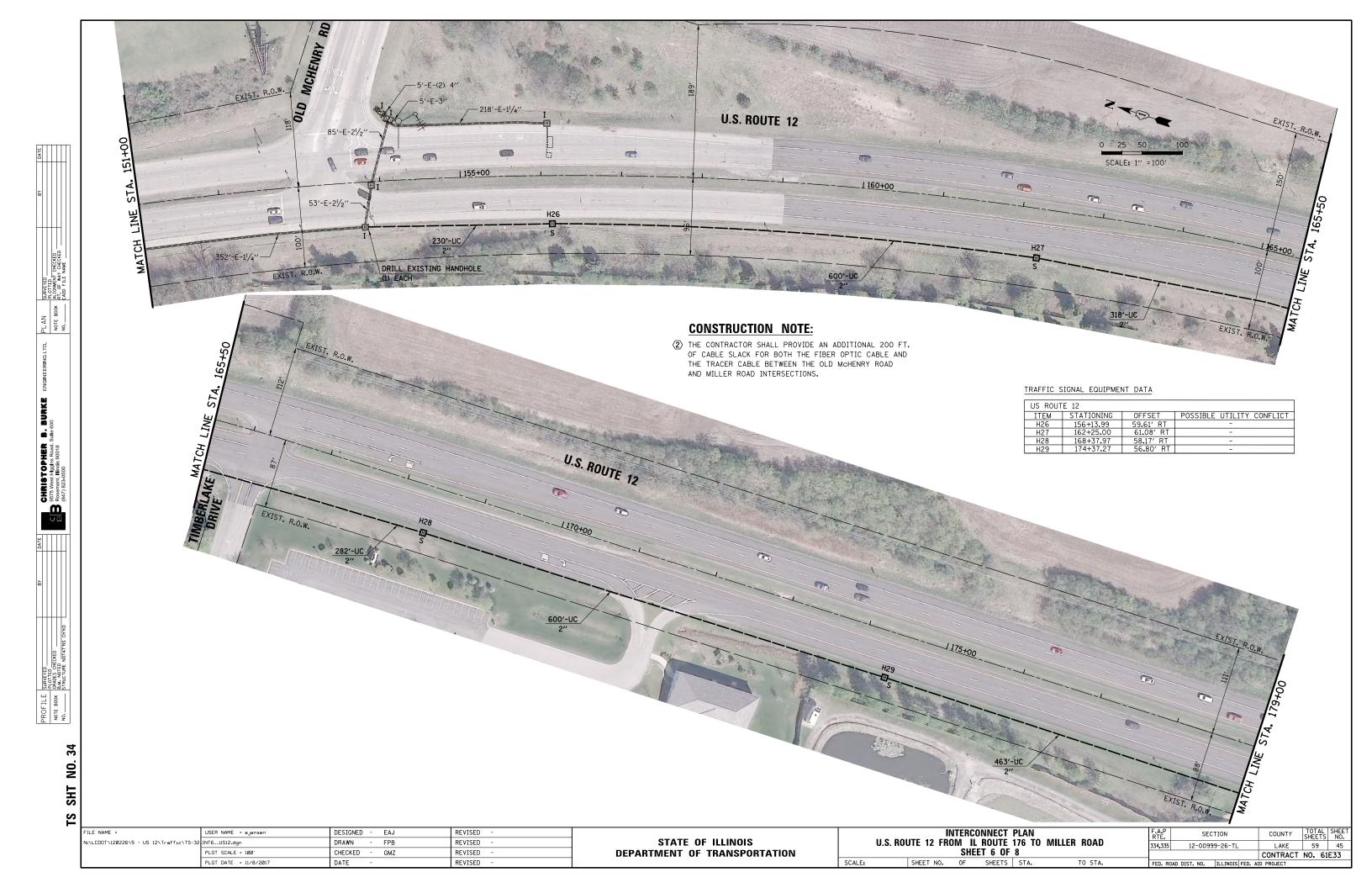


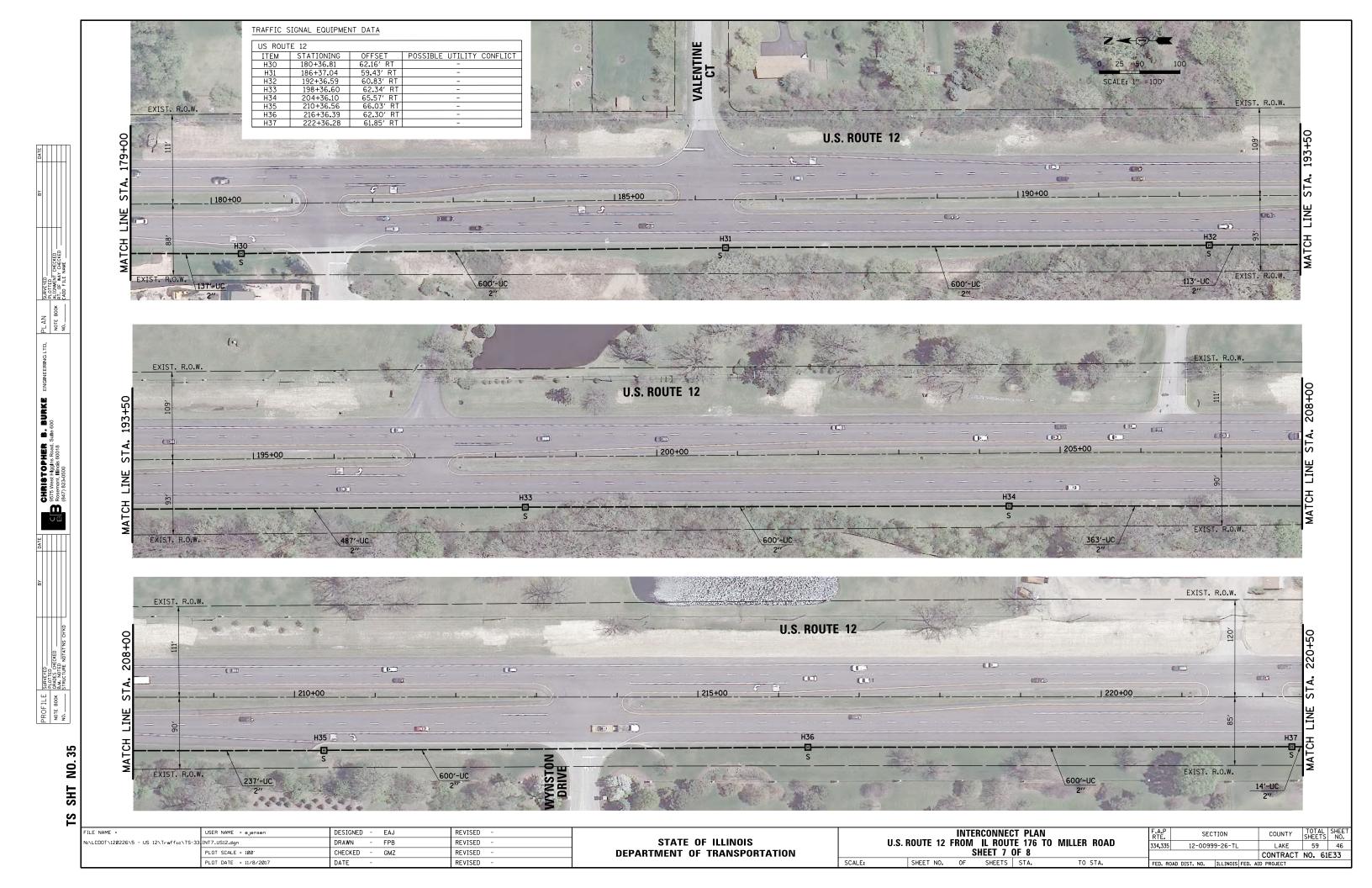




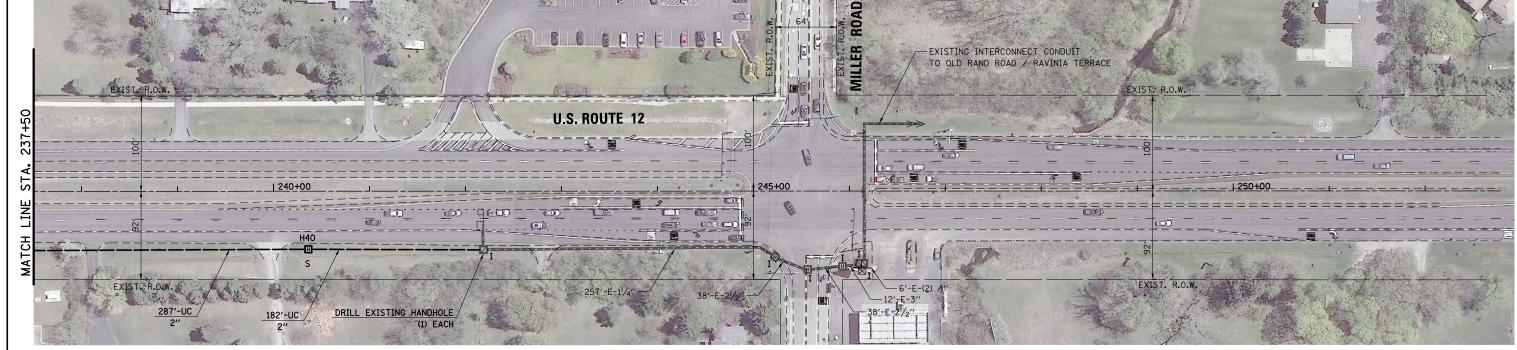












TRAFFIC SIGNAL EQUIPMENT DATA

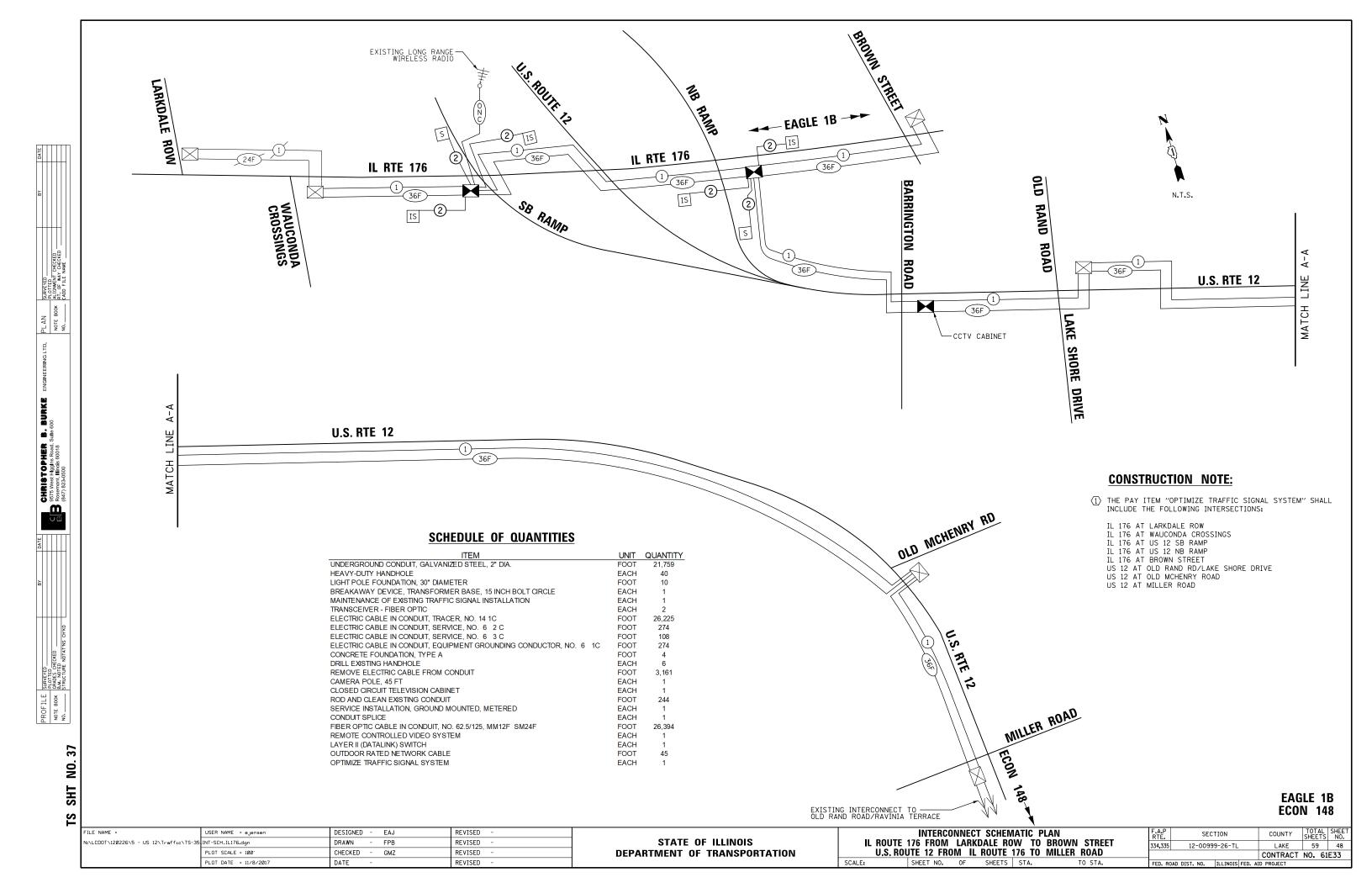
Sulte (

US ROUT	E 12		
ITEM	STATIONING	OFFSET	POSSIBLE UTILITY CONFLICT
H38	228+36.67	63.26′ RT	-
H39	234+36.74	63 . 19′ RT	-
H40	240+36.32	60.49' RT	_

CONSTRUCTION NOTE:

ECON 148

		H38 228+36.67 H39 234+36.74	OFFSET POSSIBLE UTILITY CONF 63.26' RT - 63.19' RT - 60.49' RT -	FLICT ② THI OF THI	CONSTRUCTION NOTE: HE CONTRACTOR SHALL PROVIDE AN ADDITIONAL 200 FT. F CABLE SLACK FOR BOTH THE FIBER OPTIC CABLE AND HE TRACER CABLE BETWEEN THE OLD MCHENRY ROAD ND MILLER ROAD INTERSECTIONS.			ECON 148
-	FILE NAME =	USER NAME = ejensen		EVISED -		INTERCONNECT PLAN	F.A.P RTE. SECTION	COUNTY TOTAL SHEET SHEETS NO.
1	N:\LCOOT\120226\5 - US 12\Traffic\TS-34 INT8_US PLOT S			EVISED -	STATE OF ILLINOIS	U.S. ROUTE 12 FROM IL ROUTE 176 TO MILLER ROAD	334,335 12-00999-26-TL	LAKE 59 47
		PLOT SCALE = 100'		EVISED -	DEPARTMENT OF TRANSPORTATION	SHEET 8 OF 8		CONTRACT NO. 61E33
L		PLOT DATE = 11/8/2017	DATE - RE	EVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID	PROJECT



	CHRISTOPHER B. BURKE	0575 Wast Ulasins Dood Suits 600	Solo West Higgins Noad, Culle Coo	Kosemont, Illinois 60018	(847) 823-0500	
DATE						
ВҮ						
	SURVEYED	PLOTTED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTATINS CHIKD	
1	PRUPILE SURVEYED		NOTE BOOK		ģ	

<u>PATCH</u>	PANEL	COLOR	CODING
112	IGLE M	ODE FIE	ER

FIBER TERMINATIONS COUNT										
	INCLUDED IN COST	OF FIBER OPTIC CABLE	BID ITEM							
INTERSECTIONS	SPLICES	TERMINATIONS	SPLICES	TERMINATIONS						
IL 176 AT LARKDALE ROW										
IL 176 AT WAUCONDA CROSSINGS	6	6								
IL 176 AT US 12 WEST RAMP	6	12								
IL 176 AT US 12 EAST RAMP	6	24								
IL 176 AT BROWN STREET		12								
US 12 AT BARRINGTON RD	6	12								
US 12 AT OLD RAND RD/LAKE SHORE DR	6	12								
US 12 AT OLD MCHENRY RD	6	12								
US 12 AT MILLER RD	6	6								
US 12 AT N OLD RAND RD/RAVINIA TERR			6							
US 12 AT HONEY LAKE RD			6							
US 12 AT NORTHLAKE/WHITNEY RD			6							
US 12 AT IL 22/MAIN ST				6						
TOTAL	42	96	18	6						

_ BLUE
ORANGE
_ GREEN
BROWN
_ SLATE
_ WHITE
_ RED
BLACK
YELLOW
VIOLET
ROSE
AQUA

BLUE with BLACK tracer ORANGE with BLACK tracer __ GREEN with BLACK tracer BROWN with BLACK tracer SLATE with BLACK tracer WHITE with BLACK tracer RED with BLACK tracer BLACK with BLACK tracer YELLOW with BLACK tracer VIOLET with BLACK tracer ROSE with BLACK tracer AQUA with BLACK tracer

ALL SINGLE MODE PATCH PANEL **CONNECTORS ARE** TO BE TYPE SC

ALL MULTIMODE PATCH PANEL **CONNECTORS ARE** TO BE TYPE ST

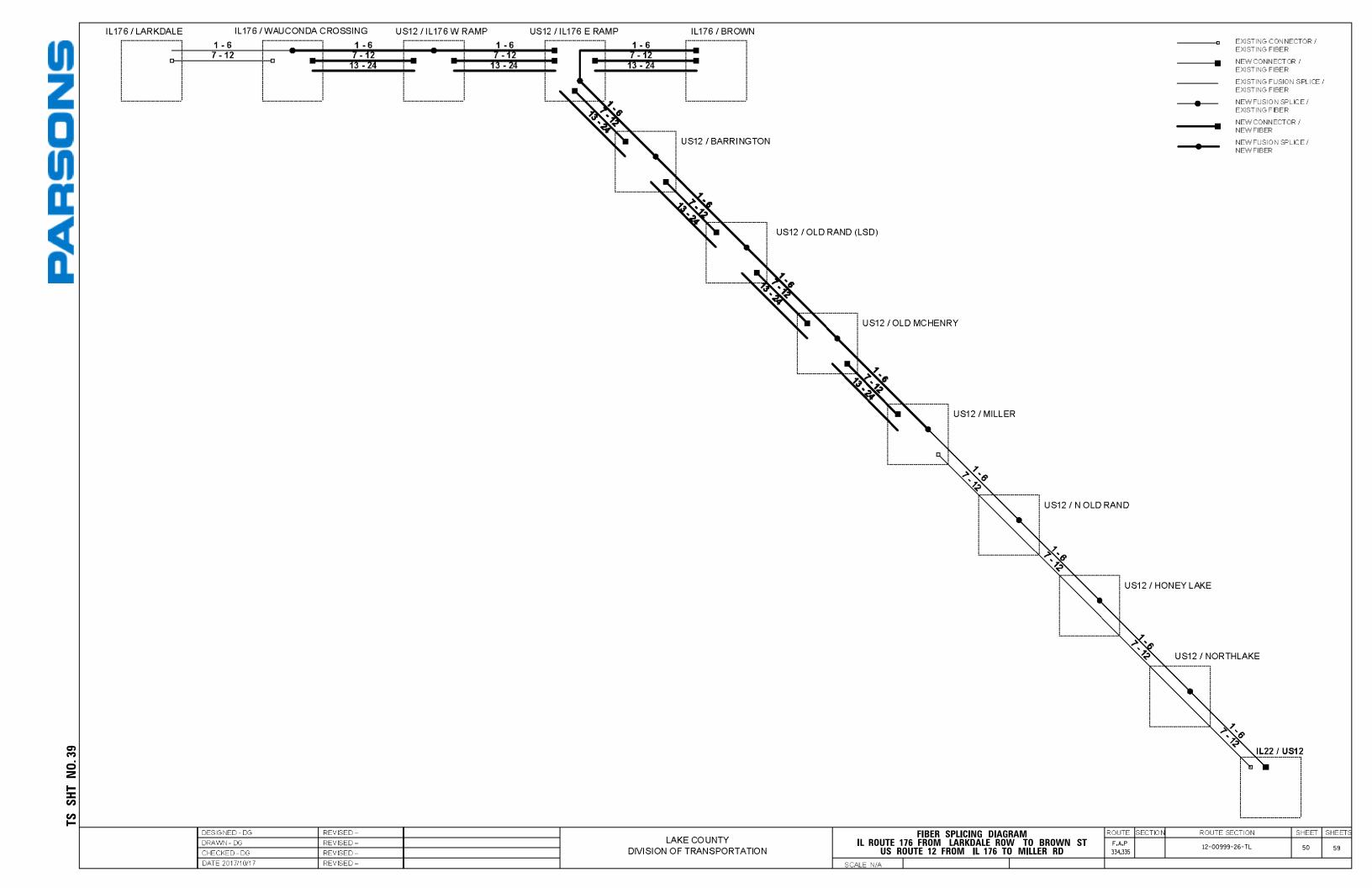
CONSTRUCTION NOTES:

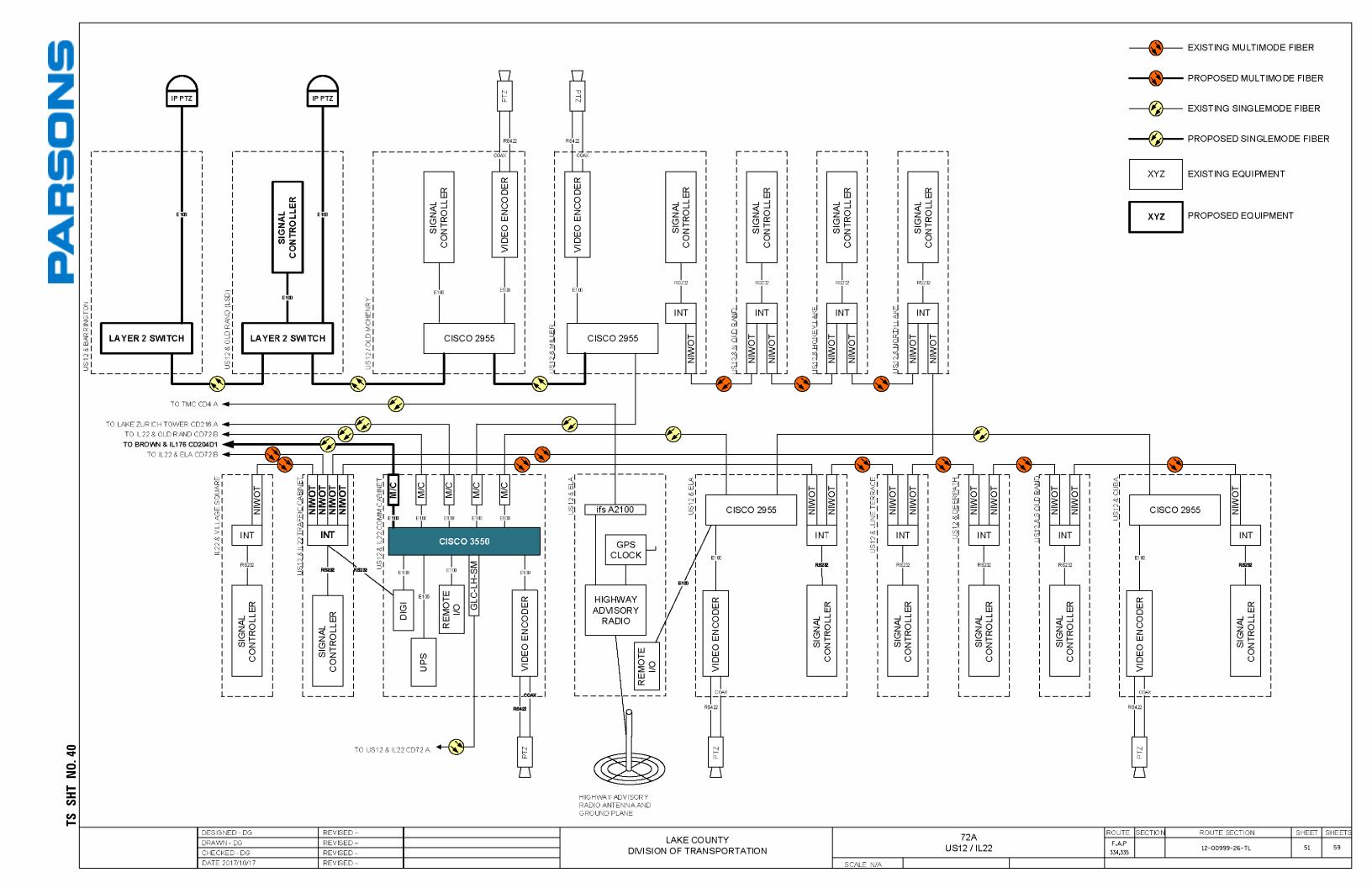
- 1 THE FOLLOWING INTERSECTIONS ARE TO BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION:
- US 12 AT N OLD RAND ROAD/RAVINIA TERRACE US 12 AT HONEY LAKE ROAD US 12 AT NORTHLAKE/WHITNEY ROAD
- US 12 AT IL 22/MAIN STREET
- (2) THE MAINTENANCE OF THE COMMUNICATIONS CABINET AT US 12 AND IL 22 SHALL ALSO BE INCLUDED IN THE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM.

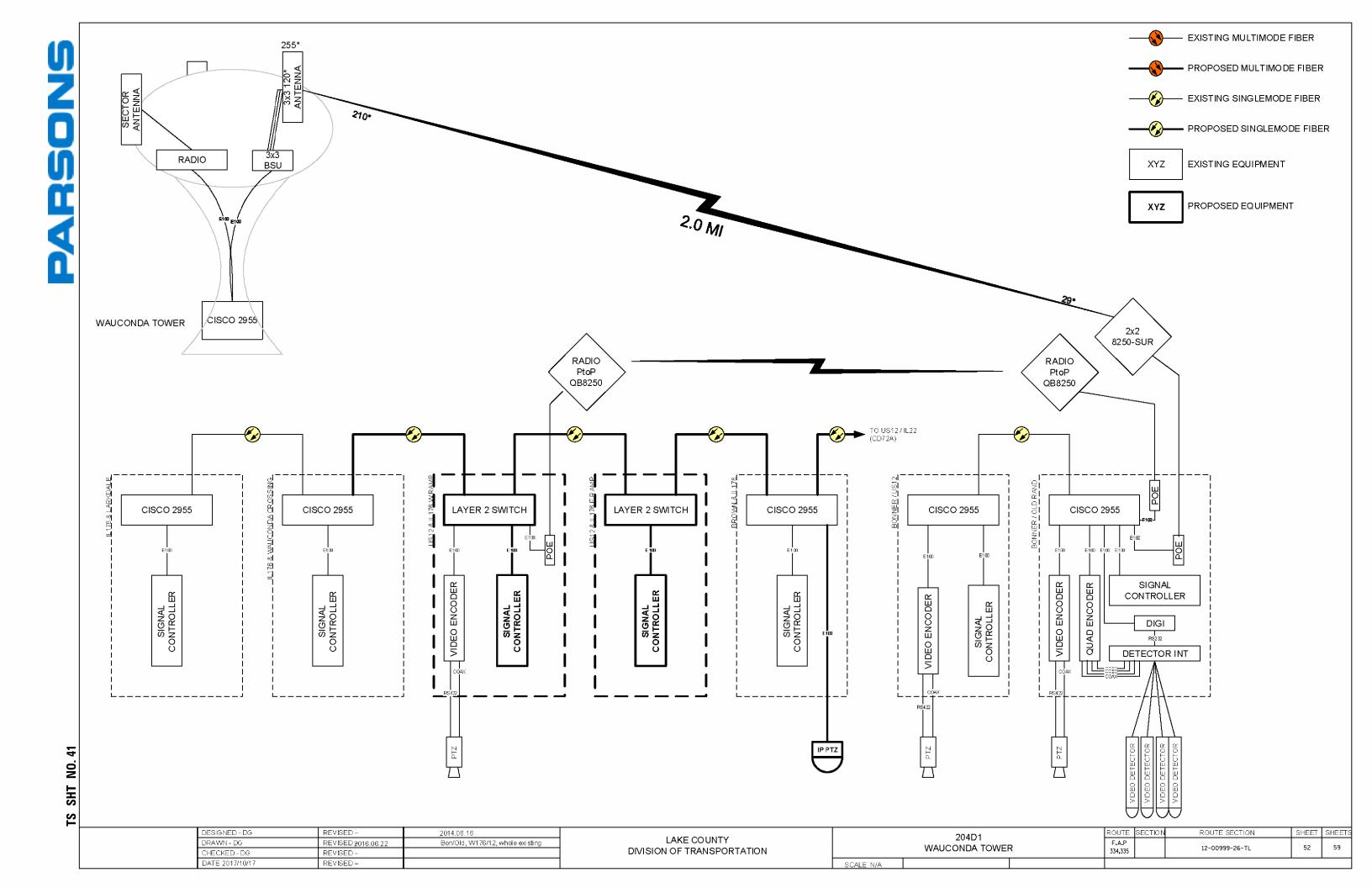
SCHEDULE OF QUANTITIES

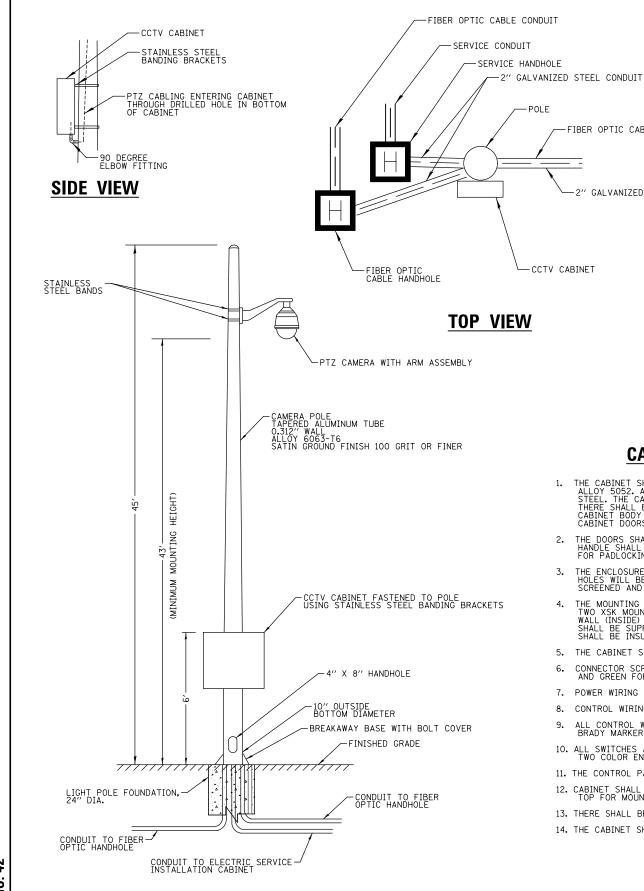
ΠEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4
TERMINATE FIBER IN CABINET	EACH	6
SPLICE FIBER IN CABINET	EACH	18

FILE NAME =	USER NAME = ejensen	DESIGNED -	REVISED -		FIBER TERMINATIONS / SPLICE COUNT, PATCH PANEL COLOR CODE, AND SCHEDULE OF QUANTITIES FOR LCDOT PASSAGE		FIBER TERMINATIONS / SPLICE COUNT, PATCH PANEL COLOR		F.A.P	SECTION	COUNTY	TOTAL	SHEET		
N:\LCDOT\120226\5 - US 12\Traffic\TS-36	DET-01_US12_Fiber Splc Color.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					12-00999-26-TL	LAKE	59	49			
	PLOT SCALE = 2'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			R LUDUI PASSAGE			CONTRACT	NO. 6	E33			
	PLOT DATE = 11/8/2017	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEET	TS STA.	TO STA.	FED. ROA	D DIST. NO. ILLINOIS FED. A	ID PROJECT		

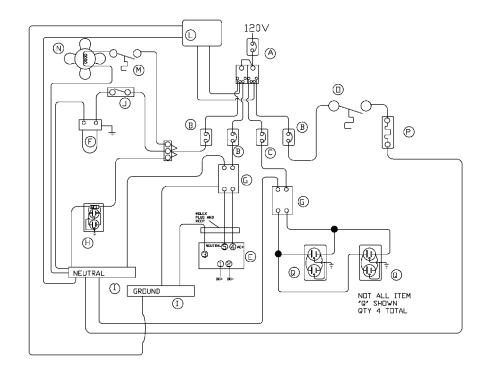








CAMERA POLE, 45 FT



		WIRING DIAGRAM LEGEND:
ITEM	QTY	DESCRIPTION
Α	1	CIRCUIT BREAKER, 1P 60A, 10 KAIC
В	3	CIRCUIT BREAKER, 1P 15A, 10 KAIC
С	1	CIRCUIT BREAKER, 1P 20A, 10 KAIC
D	2	POWER DISTRIBUTION BLOCK
Е	1	CISCO 2955 SWITCH AC/DC POWER CONVERTER
F	1	LED LIGHT FIXTURE
G	2	SURGE PROTECTION DEVICE
Н	1	20A GFCI RECEPTACLE
I	2	NEUTRAL BUS NB-120
J	1	MICRO DOOR SWITCH
К	1	19" RACK WITH SHELVES AS NEEDED
L	1	SURGE PROTECTOR
М	1	FAN THERMOSTAT
N	1	SQUARE AXIAL FAN, 105 CFM FAN, 120V
0	1	HEATING THERMOSTAT
Р	1	STRIP HEATER 200 WATT 120V
Q	4	15 AMP RECEPTACLE

CCTV CABINET WIRING DIAGRAM

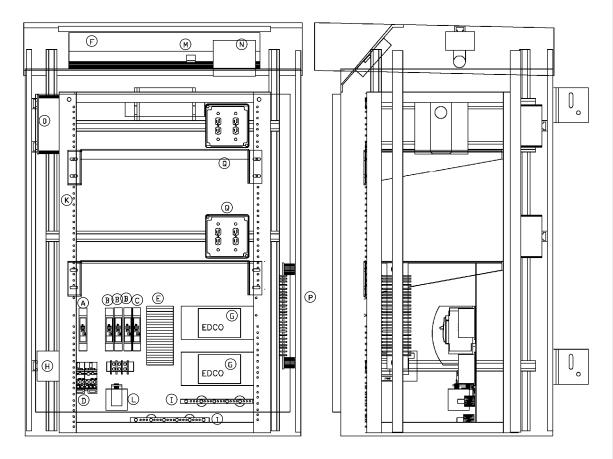
CABINET NOTES:

- THE CABINET SHALL BE FABRICATED FROM 0.188 INCH ALUMINUM ALLOY 5052. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL. THE CABINET SHALL BE RATED NEMA 3R AND U.L. LISTED. THERE SHALL BE CONTINUOUS STEEL HINGE THAT BOLTS TO THE CABINET BODY AND 1/4-20 STUD ON THE CABINET BODY AND CABINET DOORS FOR GROUNDING.
- THE DOORS SHALL BE GASKETED PER SPECIFICATIONS. THE DOOR HANDLE SHALL BE 3/4" STAINLESS STEEL AND HAVE A PROVISION FOR PADLOCKING. THERE SHALL BE A CORBIN LOCK.
- THE ENCLOSURE SHALL BE VENTED, SLOTTED SCREENED VENT HOLES WILL BE PROVIDED IN THE OVERHANG, THERE SHALL BE SCREENED AND FILTERED LOUVERS ON THE DOOR.
- THE MOUNTING PANEL SHALL BE 1/4INCH ALUMINUM MATERIAL.
 TWO XSK MOUNTING BRACKETS SHALL BE MOUNTED ON THE BACK
 WALL (INSIDE) OF THE CABINET. TWO POLE MOUNTING BRACKETS
 SHALL BE SUPPLIED WITH THE CABINET. EXPOSED BUS BARS
 SHALL BE INSULATED.
- 5. THE CABINET SHALL BE UNPAINTED.

-FIBER OPTIC CABLE CONDUIT

GALVANIZED STEEL CONDUIT

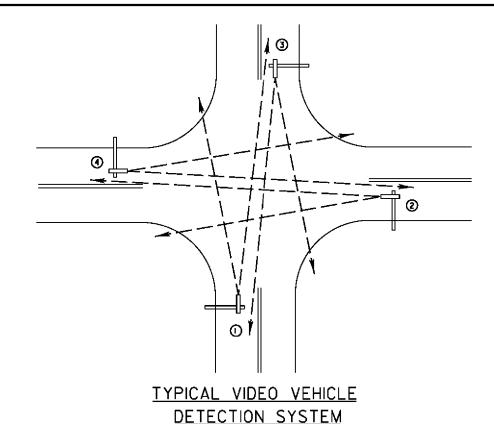
- CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS AND GREEN FOR GROUND BUS.
- 7. POWER WIRING SHALL BE RATED RHH/RHW, 600V.
- 8. CONTROL WIRING SHALL BE #12 MTW.
- 9. ALL CONTROL WIRING SHALL BE STRANDED AND MARKED WITH BRADY MARKERS.
- 10. ALL SWITCHES AND CONTROLS SHALL BE IDENTIFIED BY MEANS OF TWO COLOR ENGRAVED NAMEPLATES.
- 11. THE CONTROL PANEL SHALL BE U.L. LISTED UNDER U.L. 508A.
- 12. CABINET SHALL HAVE RAILS ON BOTH SIDES AND ONE RAIL ON THE TOP FOR MOUNTING THE LIGHT FIXTURE.
- 13. THERE SHALL BE TWO ADJUSTABLE SHELVES IN THE CABINET.
- 14. THE CABINET SHALL HAVE A SUNSHIELD ON TOP.



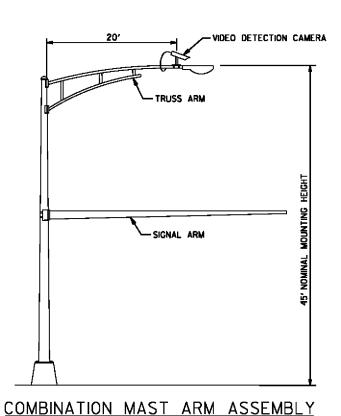
CCTV CABINET DETAIL

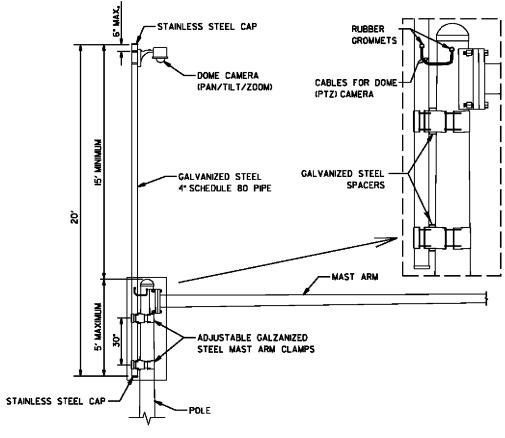
FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -			F.A.P RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\LCDOT\120226\5 - US 12\Traffic\TS-39	45 ft Camera Pole Detail.dgn	DRAWN - FPB	REVISED -	STATE OF ILLINOIS	CAMERA POLE AND CCTV CABINET DETAIL		12-00999-26-TL	LAKE 59 53
	PLOT SCALE = 2'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 61E33
	PLOT DATE = 11/8/2017	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. R	DAD DIST. NO. ILLINOIS FED. A	

2 SHT Z



(NOT TO SCALE) (4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS (1) (2) (3) (4)





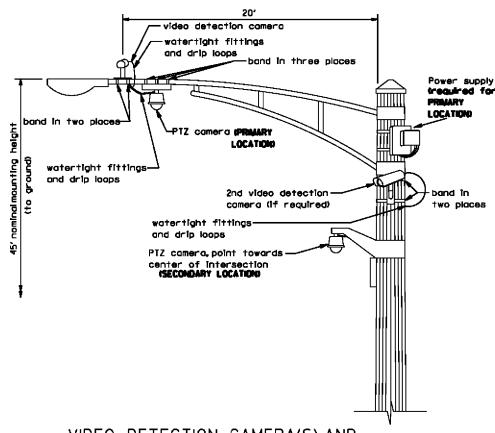
CAMERA MOUNTING ASSEMBLY DETAIL

(NOT TO SCALE)

- THE MAST ARM IS TAPERED.

NOTES:

- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL

(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:

- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
- MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.

CENTER POINT OF INTERSECTION__

EDGE OF PAV'T .-PTZ CAMERA ARM SHALL BE ALIGNED AT AN ANGLE OF 45^ TOWARD THE CENTER POINT OF THE INTERSECTION 45^ SIGNAL MAST ARMS

PT7 CAMERA MOUNTING DETAILS (SECONDARY LOCATION)

	DATE	REVISIONS							
	05/01/08	Mounting Details Revised							
	01/14/09	2nd Camera Locat added							
	06/01/12	Mast Arm Taper Detail							
	06/13/14	Mounting Details Revised							
C									
_									
1									

LakeCounty

APPROVED BY: J. P. NELSON DATE: JUNE 13, 2014

AMERA MOUNTING DETAILS

DATE BY SURVEYOR:
// DSGNR/LIAISON:

AND POLE DIMENSIONS (NOT TO SCALE)

SHT NO.

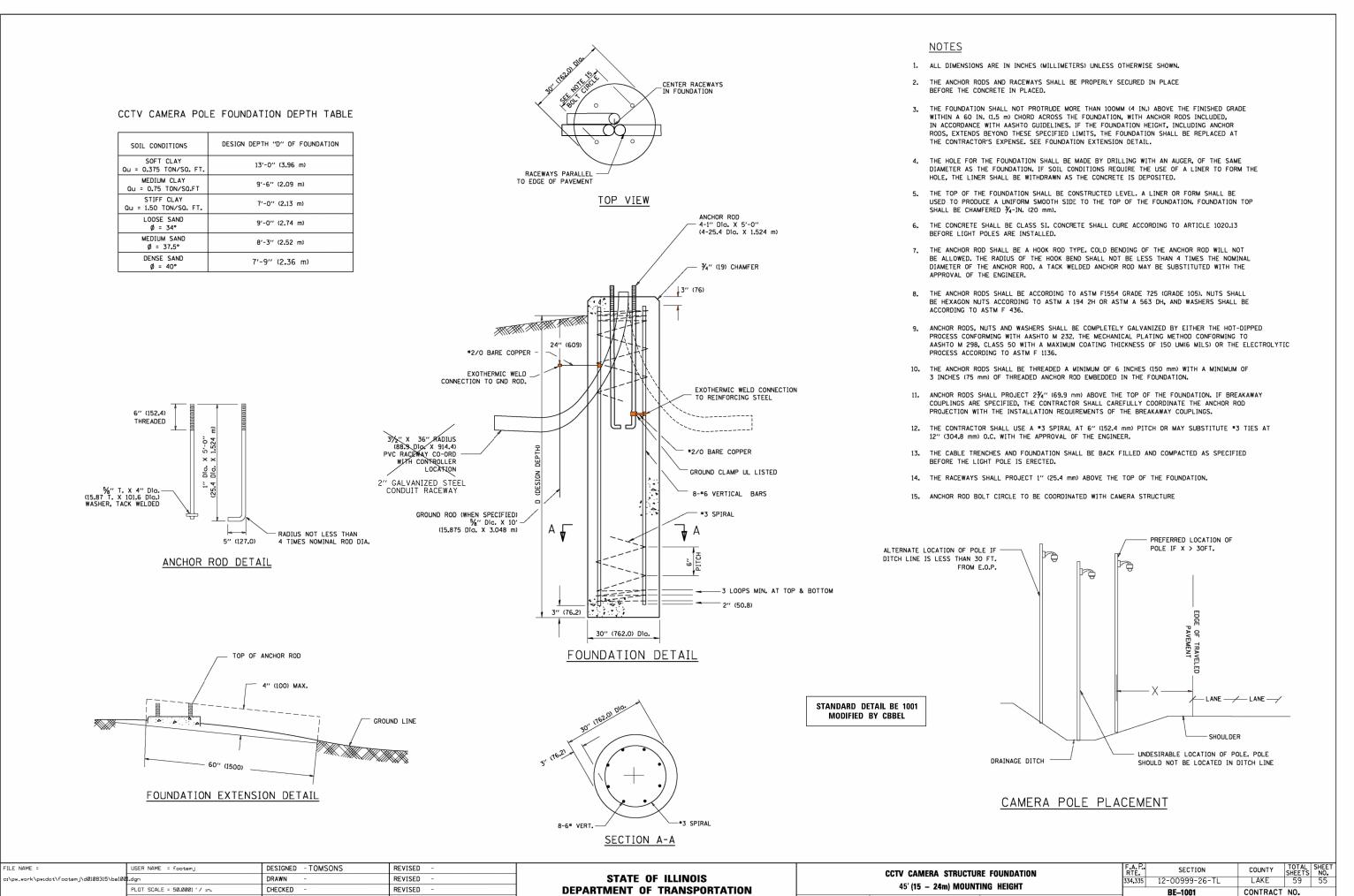
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LakeCounty

IL 176 AND US 12 INTERCONNECT PROJECT LAKE COUNTY STANDARDS & DETAILS ROUTE SECTION SECTION NUMBER 12-00999-26-TL

SHEET SHEETS 54 59

LC8900



SCALE: NONE

SHEET NO. 1 OF 1 SHEETS STA.

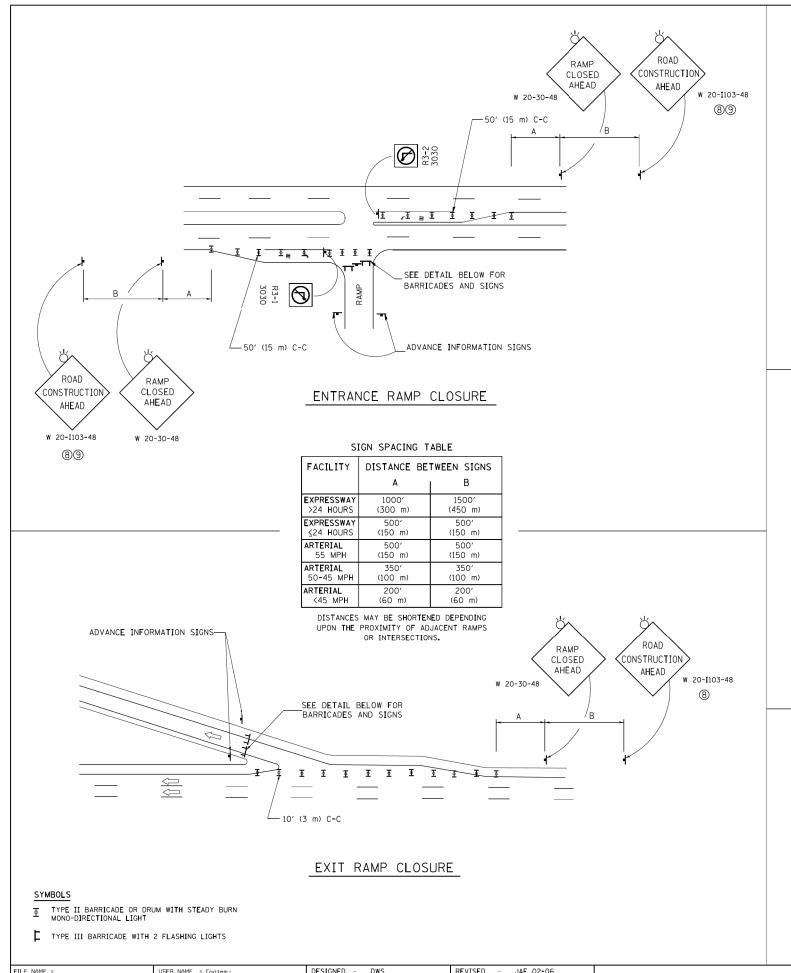
TO STA.

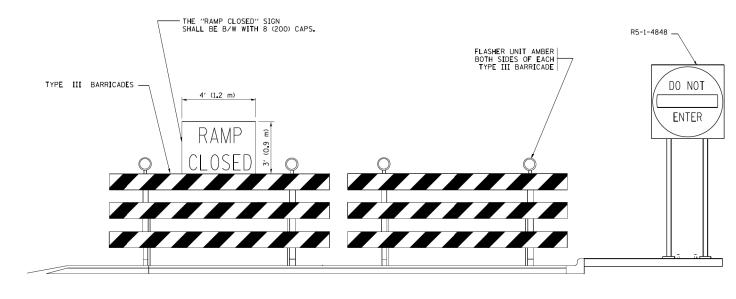
PLOT DATE = 4/3/2013

DATE

03-11-13

REVISED







DETAIL FOR REQUIRED BARRICADES & SIGNS



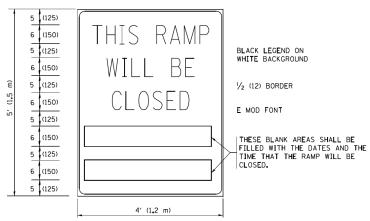
RAMP CLOSURE ADVANCE WARNING SIGN

DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

BLACK LEGEND ON ORANGE

BACKGROUND MOUNTED



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

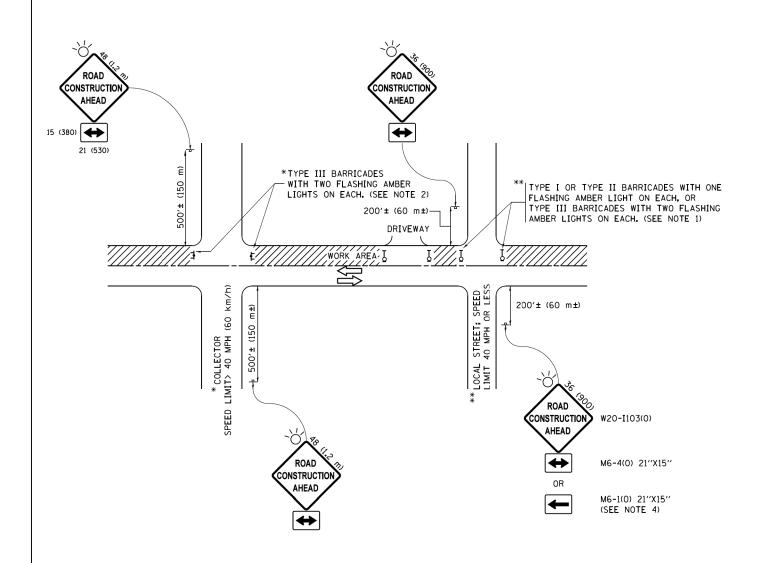
GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II 1 BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2) STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- (4) ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (5) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 7 THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- (3) ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06			ENTRANCE AND EXI	T DAMP	F.A.P.	SECTION	COUN T Y	TOTAL SI	HEET
c:\pw_work\pwidot\footemj\d0108315\tc08.	dgn	DRAWN -	REVISED - SPB 01-07	STATE OF ILLINOIS				334,335	12-00999-26-TL	LAKE	59	56
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - SPB 12-09	DEPARTMENT OF TRANSPORTATION		CLOSURE DETAILS		TC-08		CONTRACT	T NO	-
	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED BO		ATD PROJECT		$\overline{}$



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

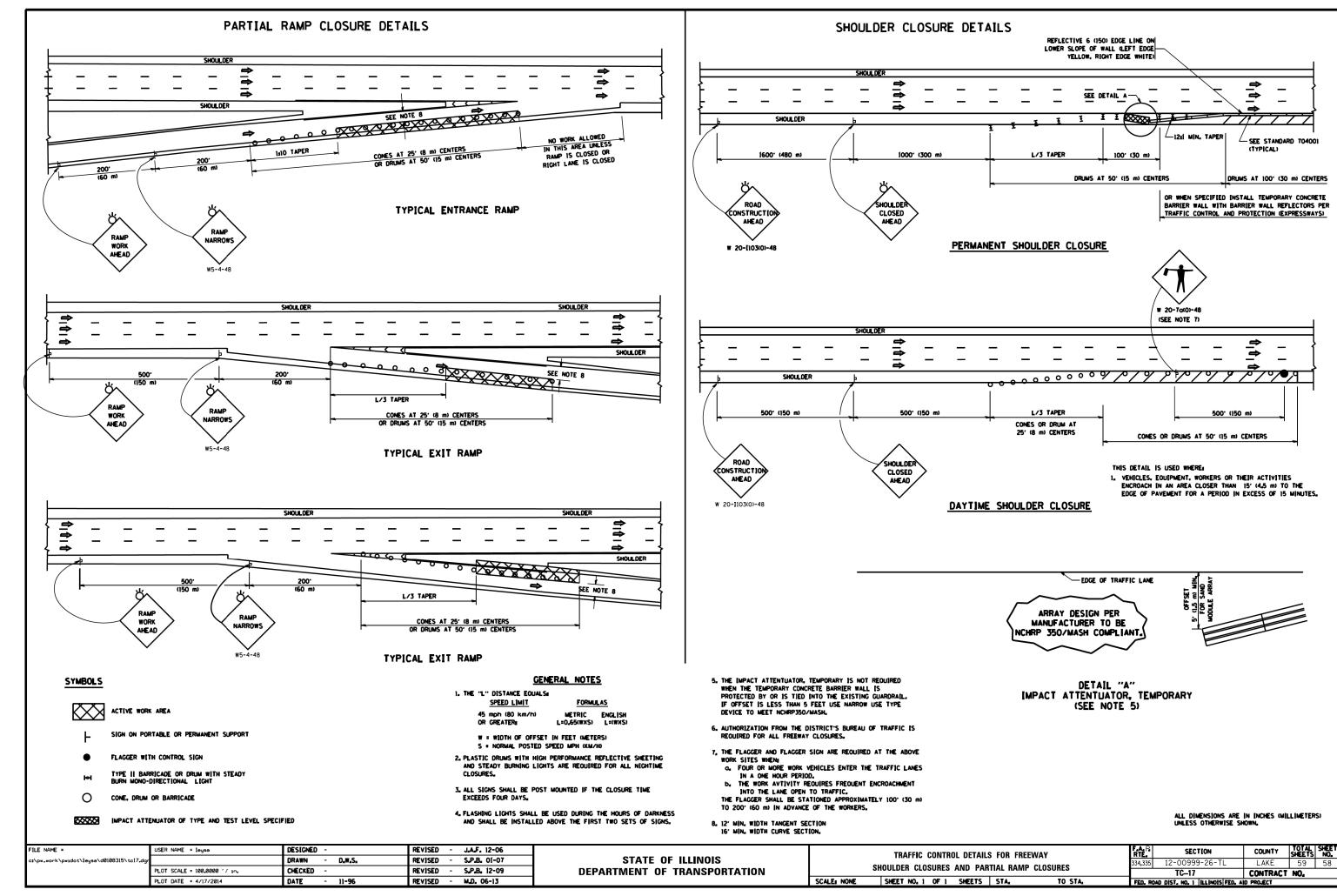
All dimensions are in inches (millimeters) unless otherwise shown.

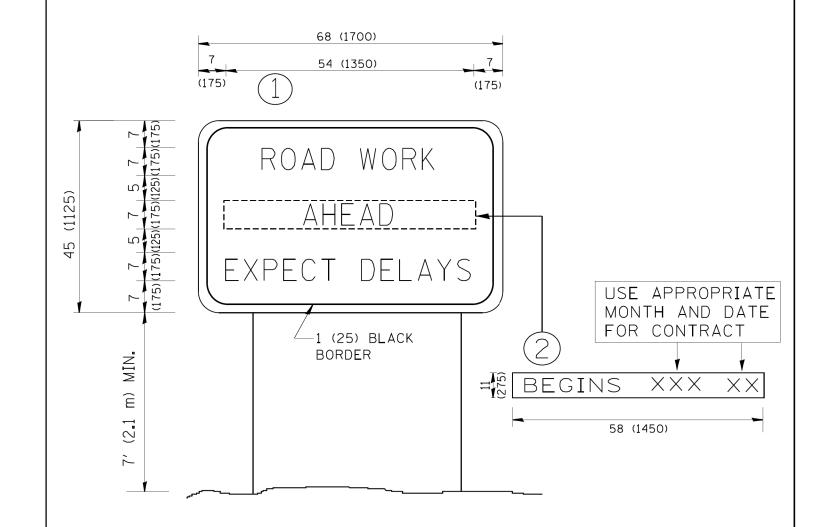
COUNTY

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\IL084EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	D DRAWN \CADData\CADsheets\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE OF ILLINOIS							
DEPARTMENT	OF	TRANSPORTATION					

SHEET 1 OF 1	SHEETS		TO STA.	TC-10			
SIDE BOADS INTE	DOFOTIONI	DDIVEWAVE	334,335	12-00999-26-			
TRAFFIC CONTR	S, INTERSECTIONS, AND DRIVEWAYS TC-	SECTION					





NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	•		ARTERIAL ROAD		F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				334,335	12-00999-26-TL	LAKE	59 59
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN				TC-22	CONTRACT NO.	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	07	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A			