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

09-18-2015 LETTING ITEM 009

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 2552 (WASHINGTON STREET) ROYCE ROAD TO WARRENVILLE ROAD **FAU 1522 (AURORA AVENUE)** WEST STREET TO WASHINGTON STREET FAU 2546 (WEST STREET) MARTIN AVENUE TO AURORA AVENUE **FAU 1487 (CHICAGO AVENUE)** WASHINGTON STREET TO ELLSWORTH STREET TRAFFIC SIGNAL INTERCONNECT SECTION: 13-00158-00-TL PROJECT NO.: CMM-M-4003(229) DuPAGE AND WILL COUNTY JOB NO.: C-91-027-14

				END OF PROJE STA 405+00	СТ	
RANGI	E 26 WEST	1 -		SN 022-9911 STA 393+57	3RD P.M.	
1 200	W Ferry Rd	Kerty Rd Rona	ld Ligan Me	morial Tollway	Warrenyllo R	
TOWNSHIP 4 SOUTH	(110) Rd 20		Te do	Og Og	den A	RAILROAD CROSSIN # 079547P
F	Raymond Dr.	N Mill St	E Ogden have			
	N Aurora Rd	W Ogden Ave	EOgd	/	naple Ave	
(59	Y					
	Ve	Nabel	ville	Physical		
uror	2	4		College g	[2]	SN 022-0031 STA 291+15
	(34) Ricke	ert Dr San WGM	Bor Ro	Hobson Rd		SN 022-0001
St				*		STA 258+00
Rd	Springbrook Forest Pres 83rd St	Prairie erve	Sapital S	ehdi 🔯 Naper Blvd	Greene V Forest Pre	SN 099-3326 STA 45+00
TOWNSHIP 10 SOUTH	PROJECT LOCATION =		Britist 3	Lisson	Totest Fil	BEGINNING PROJECT
d H		Plainfiel	The state of the s	Eost	Royce Rd	

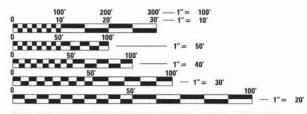
NAPERVILLE LISLE AND DUPAGE TOWNSHIP

NET LENGTH = 14.170 FEET (2.68 MILES) GROSS LENGTH = 45,400 FEET (8.60 MILES)

TRAFFIC DATA

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FAU NUMBERS	ROUTE SEGMENT	SPEED (MPH)	ADT (2012)	CLASSIFICATION
2552	WASHINGTON STREET ROYCE ROAD TO NAPER BOULEVARD	45	26,900	URBAN 4 LANE, OTHER PRINCIPAL ARTERIAL
	WASHINGTON STREET - NAPER BLVD. TO DUPAGE/WILL COUNTY LINE	45	19,700	URBAN 4 LANE, MINOR ARTERIAL
	WASHINGTON STREET - DUPAGE/ WILL COUNTY LINE TO 75TH STREET	40	22,600	URBAN 4 LANE, MINOR ARTERIAL
	WASHINGTON STREET - 75TH STREET TO AURORA AVENUE	30/35/40	28,500	URBAN 4 LANE, MINOR ARTERIAL
	WASHINGTON STREET AURORA AVENUE TO US ROUTE 34	25/30	22,000	URBAN 4 LANE, MINOR ARTERIAL
	WASHINGTON STREET - US ROUTE 34 TO WARRENVILLE ROAD	30/35	16,000	URBAN 4 LANE, MINOR ARTERIAL
1522	AURORA AVENUE - WEST STREET TO WASHINGTON STREET	30	18,100	URBAN 4 LANE, MINOR ARTERIAL
2546	WEST STREET - MARTIN AVENUE TO AURORA AVENUE	30	17,000	URBAN 4 LANE, MINOR ARTERIAL
1487	CHICAGO AVENUE - WASHINGTON STREET TO ELLSWORTH STREET	30	12,800	URBAN 4 LANE, MINOR ARTERIAL



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

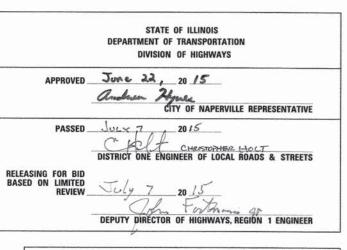
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600

Rosemont, Illinois 60018 (847) 823-0500

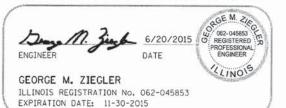
CONTRACT NO. 61B84

13-00158-00-TL DuPAGE & WILL 84 ILLINOIS CONTRACT NO. 61B84





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PROFILE SU

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HIGHWAY STANDARDS

	HIGHWAY STANDARDS
STD. No.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SIGN SUPPORT
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-10	CONCRETE FOUNDATION DETAILS

FILE NAME =	USER NAME = IDariso	DESTONED	200	LJ / 13	MEA12ED -
N:\Naperville\130319\Traffic\INX_130319.dq	n	DRAWN	-	FPB / FCP	REVISED -
	PLOT SCALE = 1'	CHECKED	-	GMZ	REVISED -
	PLOT DATE = 6/22/2015	DATE	+	3/13/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

INDEX C	иссте	пісним	V CTANDAD	ine	F.A.U. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
INDEX SHEETS, HIGHWAY STANDARDS					2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	2
					0.0000000000000000000000000000000000000		CONTRACT	NO. 618	384
SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	. AID PROJECT		

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION), IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2015 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO; IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY. ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS
- 2. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE CONTRACT.

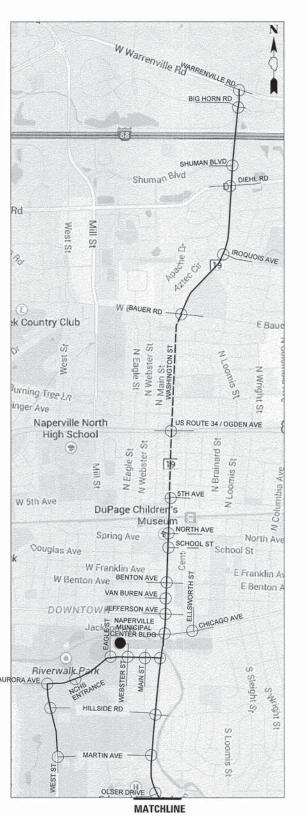
SHALL BE INTERPRETED TO BE LATEST STANDARDS OF THE DEPARTMENT.

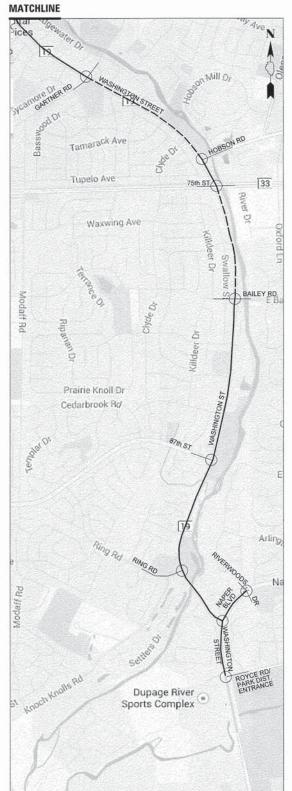
- ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THE RELATED PAY ITEM.
- 4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- 5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED). ALL UTILITY COORDINATION SHALL BE IN ACCORDANCE WITH ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) AND APPLICABLE SECTIONS OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2015 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION, JULIE, LOCATE, PROTECT, AND HAND DIG AS REQUIRED TO PROTECT EXISTING NDPU-E FACILITIES. NDPU-E WILL NOT RELOCATE FACILITIES DUE TO THIS PROJECT. THE CONTRACTOR SHALL CONTACT RON RITTER AT 630-420-4183 TO COORDINATE ANY UTILITY RELATED ISSUES.
- 6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB PER OSHA REGULATIONS. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.
- 7. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS
 TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING
 DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND
 CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL
 TRAFFIC CONTROL SETUPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE
 THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN
 THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE
 CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24
 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL
 DEVICES. THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC
 CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON
 UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND
 PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE
 TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF
 JURISDICTION AND THE CITY ENGINEER.
- 8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK AT THE WASHINGTON STREET AND US ROUTE 34 (OGDEN AVENUE) INTERSECTION.

- ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.
- 10. LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION. ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE TRAFFIC CONTROL. AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.
- 11. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
- 13. ALL COSTS RELATED TO MODIFYING EXISITING CONTROLLER CABINETS FOR CABINET RELATED PAY ITEMS AS SHOWN ON THE PLANS SHALL BE INCLUDED IN SUCH PAY ITEMS. THIS INCLUDES COSTS FOR FURNISHING ALL CABINET MATERIALS, HARDWARE, WIRING, CONTROLLER SOFTWARE UPGRADES, LOAD SWITCHES, AND LABOR REQUIRED. NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR THIS WORK.

 14. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST FOR THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

LOCATION MAP





LEGEND:

= SIGNALIZED INTERSECTION WITHIN PROJECT LIMITS

= NAPERVILLE MUNICIPAL CENTER BUILDING

= PROJECT LIMITS

---- = PROPOSED TRAFFIC SIGNAL INTERCONNECT

NAME =	USER NAME = fberiso	DESIGNED -	- LJ / TS	REVISED -	
Maperville\130319\Traffic\NOT_130319.d	gn	DRAWN -	- FPB / FCP	REVISED -	
	PLOT SCALE = 1'	CHECKED -	- GMZ	REVISED -	
	PLOT DATE = 6/22/2015	DATE -	3/13/2015	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				CONSTRUCTION CODE: 0021									
	. пем			Machinatan Ctroot @				CMAQ FUNDS (80% FI					
CODE NO.		UNIT	TOTAL	Royce Road	Naper Boulevard	River Woods Drive	Ring Road	87th Street	Bailey Road	Washington Street @ 75th Street	Washington Street Hobson Road		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQYD	42										
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	375										
	SIDEWALK REMOVAL	SQ FT	400										
	MOBILIZATION	L SUM	1										
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1										
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1				- 1-5-1 - 1-5-1						
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1										
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9,905										
81400100	HANDHOLE	EACH	16										
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	35	1	1	1	1	1	1	1	1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	43,550										
87900200	DRILL EXISTING HANDHOLE	EACH	7							10			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	26,000				CONTRACTOR OF THE PARTY OF THE						
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	25				= 1-9D . 1						
XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	26,350										
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	6		1					1			
XX006655	LAYER II (DATALINK) SWITCH	EACH	30			1	1	1	1				
XX006597	WIRELESS INTERCONNECT SYSTEM	L SUM	1							'			
	LAYER III (NETWORK) SWITCH	EACH	5		1								
	CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM	L SUM	1										
	CENTRALIZED SYSTEM FIELD INTEGRATION/ SETUP	L SUM	1										
	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT											
	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL		43,888										
		EACH	6		1	1	1	1	1				
	OUTDOOR RATED NETWORK CABLE	FOOT	1,575		140					85			
	FIBER OPTIC TERMINATIONS 12 FIBER	EACH	36	1	1	1	1	1	1	1	1		
	CONSTRUCTION LAYOUT	L SUM	1										
	TEMPORARY INFORMATION SIGNING	SQ FT	257										
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1										
Z0076600	TRAINEES	HOUR	500										
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500										

FILE NAME = DESIGNED - LJ / TS COUNTY TOTAL SHEETS NO.

DUPAGE & WILL 84 4

CONTRACT NO. 61B84 SECTION DRAWN - FPB / FCP STATE OF ILLINOIS REVISED -PLOT SCALE = 20' SUMMARY OF QUANTITIES CHECKED - GMZ

DATE - 3/13/2015 13-00158-00-TL REVISED -DEPARTMENT OF TRANSPORTATION PLOT DATE = 7/13/2015 SCALE: SHEET NO. OF SHEETS STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

			CONSTRUCTION CODE: 0021										
*			Washinston Chast @	STP FUNDS (75% FEDERAL / 25% LOCAL); CMAQ FUNDS (80% FEDERAL / 20% LOCAL) Washington Street @ Washington St									
CODE NO. ITEM	UNIT	TOTAL	Gartner Road	Osler Drive	Martin Avenue	Hillside Road	Aurora Avenue	Chicago Avenue	Jefferson Avenue		Benton Avenue	School Street	
31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQYD	42											
42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	375											
44000600 SIDEWALK REMOVAL	SQFT	400											
67100100 MOBILIZATION													
70102625 TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1											
70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1											
	LSUM	1											
70102640 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1						-					
81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9,905											
81400100 HANDHOLE	EACH	16											
85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	35	1	1	1	1	1	1	1	1	1	1	
87300925 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	43,550											
87900200 DRILL EXISTING HANDHOLE	EACH	7											
X0324599 ROD AND CLEAN EXISTING CONDUIT	FOOT	26,000							Nobel Control				
X8570215 FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	25	1	1	1	1	1	1	1	1	1	1	
XX004913 REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	26,350											
XX005940 REMOTE CONTROLLED VIDEO SYSTEM	EACH	6					1						
XX006655 LAYER II (DATALINK) SWITCH	EACH	30	1	1	1	1	1 1		1	1	1	1	
XX006597 WIRELESS INTERCONNECT SYSTEM	L SUM	1											
XX007018 LAYER III (NETWORK) SWITCH	EACH	5						1					
XX007991 CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM	L SUM	1											
XX007993 CENTRALIZED SYSTEM FIELD INTEGRATION/ SETUP	L SUM	1											
XX008246 FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	43,888											
XX008256 UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	6											
XX008392 OUTDOOR RATED NETWORK CABLE	FOOT	1,575					215						
XX009034 FIBER OPTIC TERMINATIONS 12 FIBER	EACH	36	1	1	1	1	1	. 1	1	1	1	1	
Z0013798 CONSTRUCTION LAYOUT	L SUM	1											
Z0030850 TEMPORARY INFORMATION SIGNING	SQFT	257											
Z0048665 RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1											
Z0076600 TRAINEES	HOUR	500											
Z0076604 TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500											
△ Construction code for TRAINEES and TRAINEES TRAINING PRO		300											

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	PLOT DATE = 7/13/2015	DATE - 3/13/2015	REVISED -	

STATE	0	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	CII		V 05 011	ANTITIES	RTE.	SE	CTION	COUNTY		
	50	IVIIVIA	טוי אוי אוי	ANTITIES	2552, 1522 & 2546	13-001	58-00-TL	DuPAGE & WILL		
-	Tanana iii								CONTRACT	
_	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD (DIST. NO.	ILLINOIS FED.	AID PROJECT	
				-48.0	No. of the second secon					

						STD ELIND		NSTRUCTION CODE: (0021 DS (80% FEDERAL / 20	00/ LOCAL)		
CODE NO.		VI-101107		Washington Street @	Washington Street @	Washington Street @	Washington Street @	Washington Street @	Washington Street @	Washington Street @	Washington Street @	Washington Street
	TI CW	UNIT	TOTAL	North Avenue	5th Street	US 34 (Ogden Avenue)	Bauer Road	Iroquois Avenue	Diehl Road	Shuman Boulevard	Bighorn Road	Warrenville Road
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	42									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	375					A L				
44000600	SIDEWALK REMOVAL	SQ FT	400									
67100100	MOBILIZATION	L SUM	1				1770					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1				81					
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1									
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701		'									
		L SUM	1									
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9,905									
	HANDHOLE	EACH	16									
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	35	1	1	1	1	1	1	1	1	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	43,550									
87900200	DRILL EXISTING HANDHOLE	EACH	7				0.00		7.			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	26,000				124					
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	25	1	1		1	1	1	1	1	1
XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	26,350									
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	6			1			1			
XX006655	LAYER II (DATALINK) SWITCH	EACH	30	1	1		1	1	1			
XX006597	WIRELESS INTERCONNECT SYSTEM	L SUM	1						•	1	1	
	LAYER III (NETWORK) SWITCH	EACH	5									
	CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM		3			1						1
		L SUM	1									
	CENTRALIZED SYSTEM FIELD INTEGRATION/ SETUP	L SUM	1									
	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	43,888									
	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	6									
	OUTDOOR RATED NETWORK CABLE	FOOT	1,575			285			240			
XX009034	FIBER OPTIC TERMINATIONS 12 FIBER	EACH	36	1	1	1	1	1	1	1	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1				201					
Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	257									
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1									
Z0076600	TRAINEES	HOUR	500									
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500									
	Construction code for TRAINEES and TRAINEES TRAINING PROGRAM GRADUATE											

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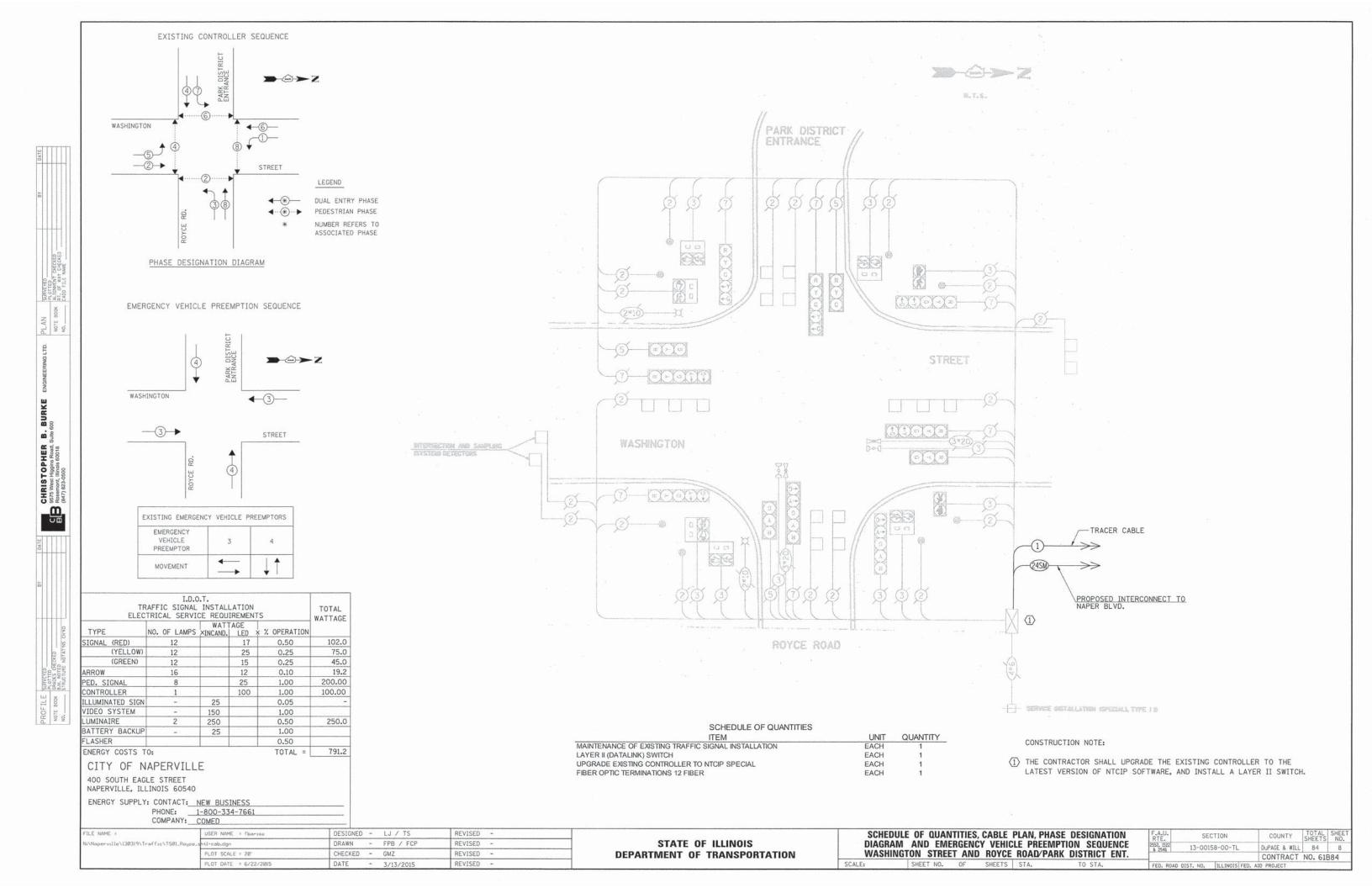
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

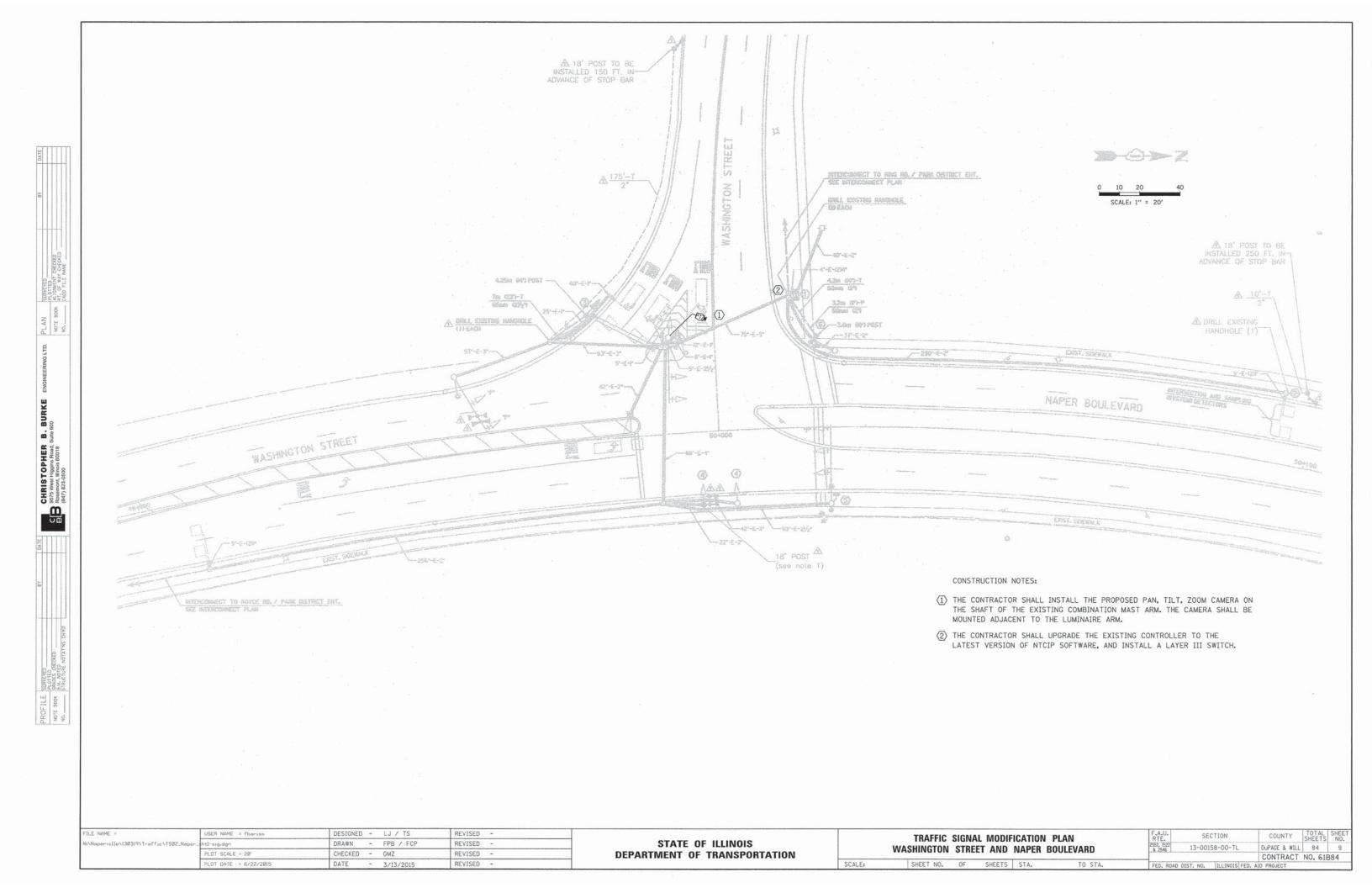
SUMMARY OF QUANTITIES					F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
					2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	6
7.00		SHEETS					CONTRACT	NO. 618	384
NO.	NO. OF		STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT		

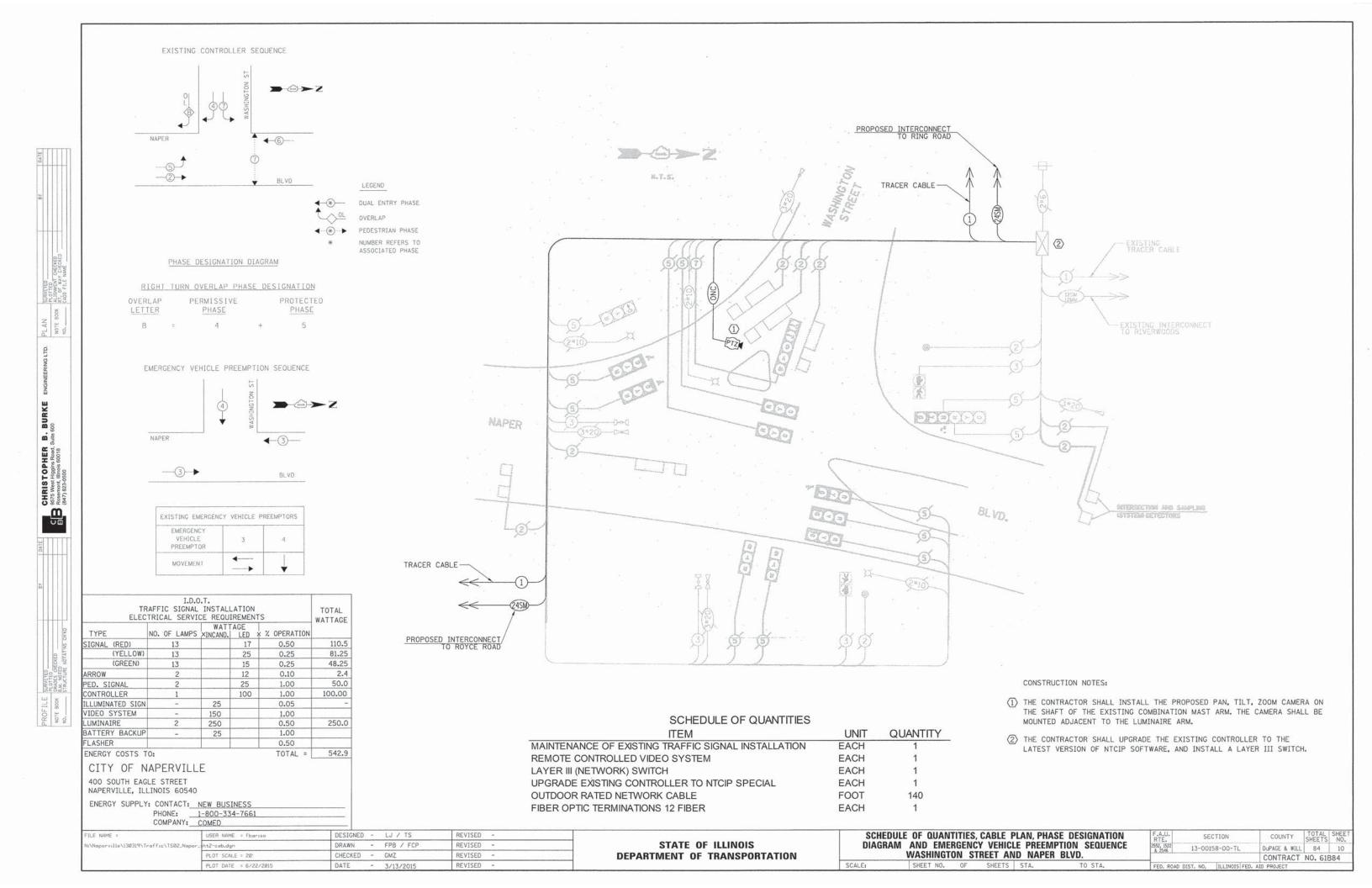
						STP ELINDS /3	CONST 5% FEDERAL / 25% LC	RUCTION CODE: 002		OCAL		
				Aurora Avenue @	Aurora Avenue @	Aurora Avenue @	Aurora Avenue @	Aurora Avenue @	West Street @	West Street @	Chicago Avenue @	T
CODE NO	. ITEM	UNIT	TOTAL	West Street	NCHS Entrance	Eagle Street	Webster Street	Main Street	Martin Avenue	Hillside Road	Ellsworth Street	Intercon
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	42	***************************************								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	375					Gi-				-
44000600	SIDEWALK REMOVAL	SQ FT	400									
67100100	MOBILIZATION	L SUM	1									
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1									
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1									
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801						118					-
		L SUM	1				37					
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9,905						17/2			
	HANDHOLE	EACH	16									
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	35	1	1	1	1	1	1	1	1	-
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	43,550									4
87900200	DRILL EXISTING HANDHOLE	EACH	7									_
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	26,000									2
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	25	1	1	1	- 191	1	1	1	1	
XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	26,350									20
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	6	1			144 7 Te					_
XX006655	LAYER II (DATALINK) SWITCH	EACH	30	1	1	1	1 1 575	1	1	1	1	
XX006597	WIRELESS INTERCONNECT SYSTEM	L SUM	1									
XX007018	LAYER III (NETWORK) SWITCH	EACH	5									1
	CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM	L SUM	1									
	CENTRALIZED SYSTEM FIELD INTEGRATION/ SETUP	L SUM	1									
	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	43,888									
	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL											43
		EACH	6									-
	OUTDOOR RATED NETWORK CABLE	FOOT	1,575	210			TO ME					
XX009034	FIBER OPTIC TERMINATIONS 12 FIBER	EACH	36	1	1	1	1 / 50	1	1	1	1	
	CONSTRUCTION LAYOUT	L SUM	1				- 218					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	257									
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1							12.00		
Z0076600	TRAINEES	HOUR	500				1/4					
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500									-

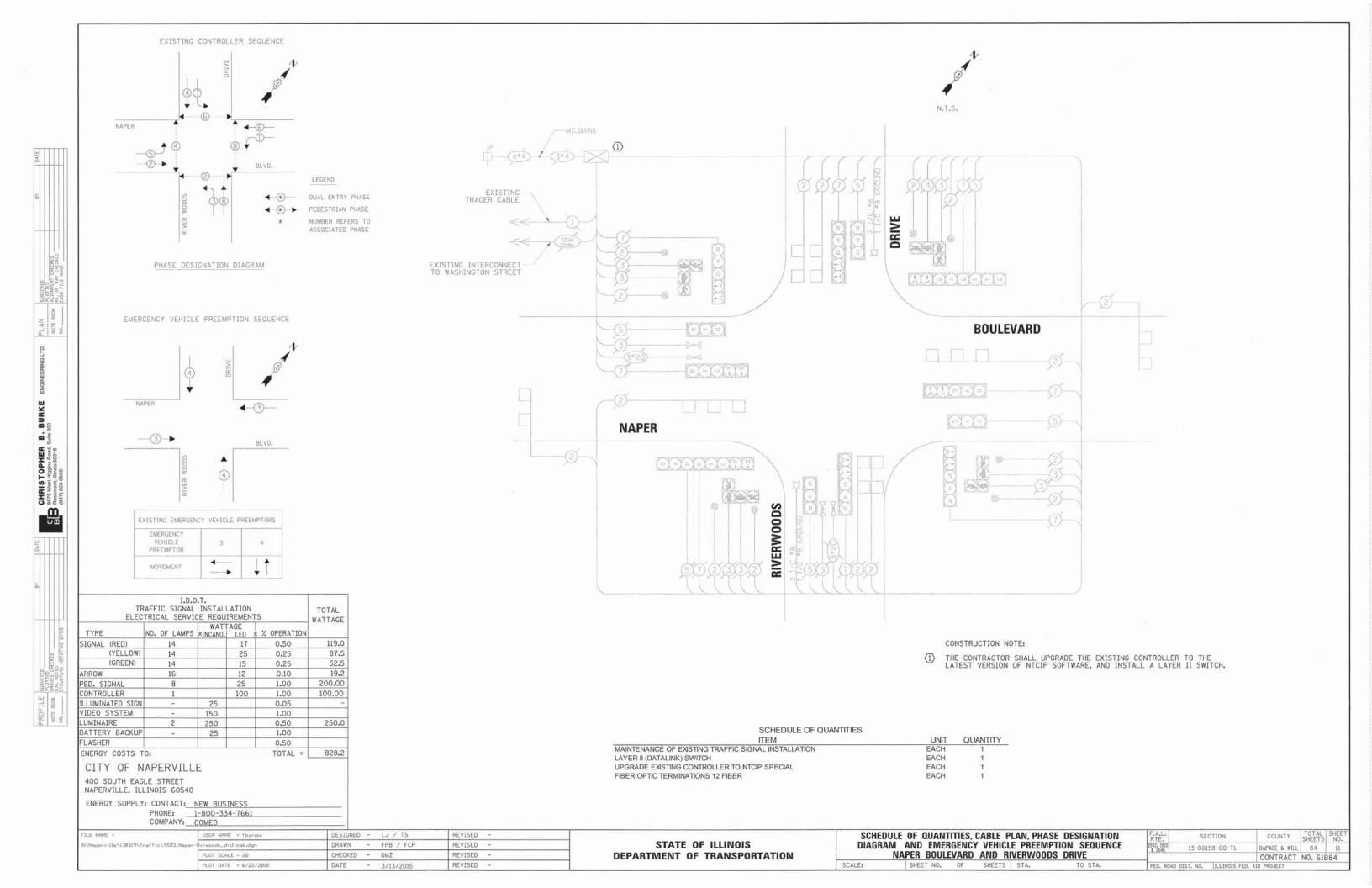
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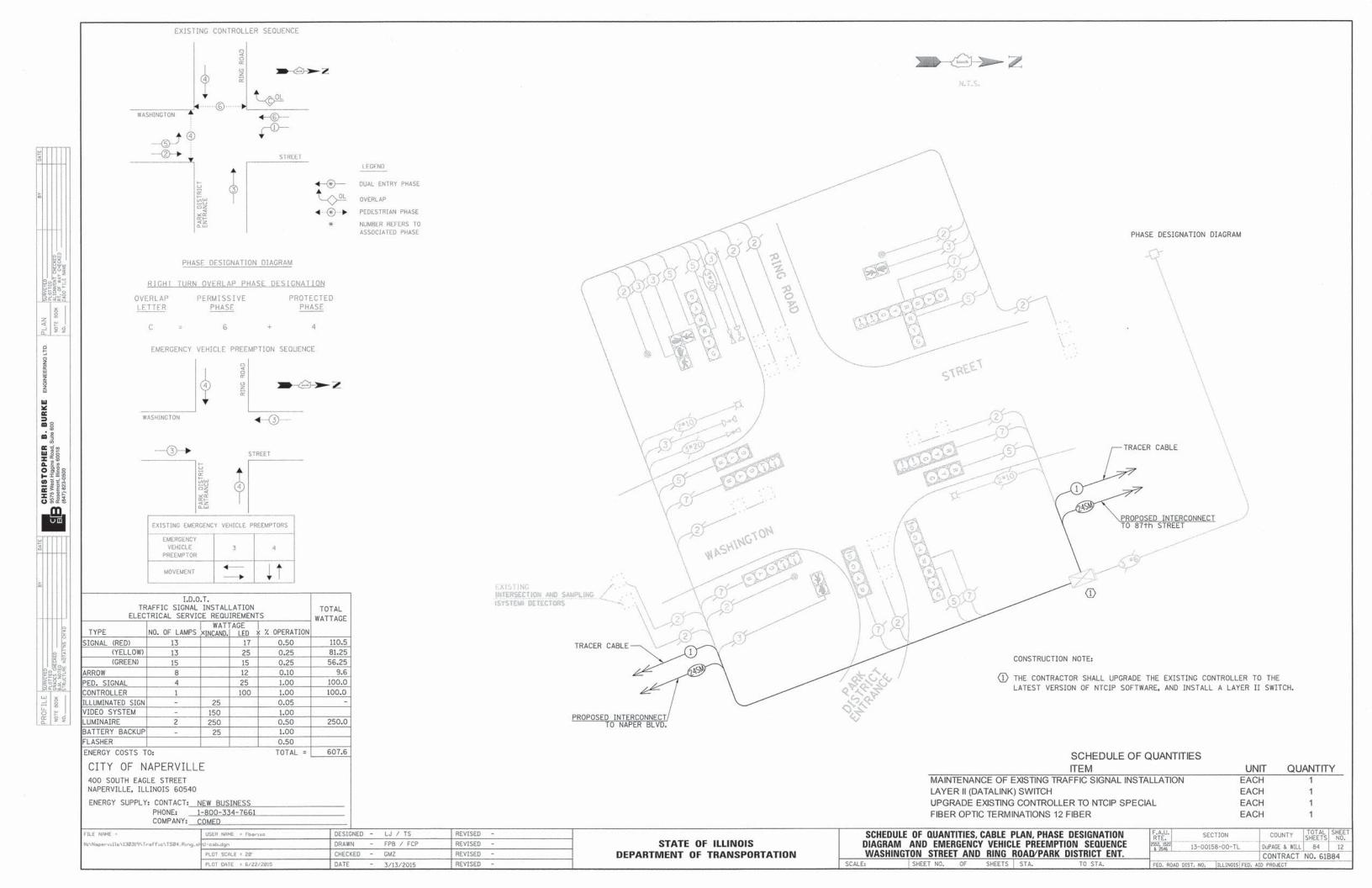
		CIII	ANA A D	V 05 011	ANITITIES		F.A.U. RTE.	SECTION		TOTAL	S NO.
SUMMARY OF QUANTITIES				2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	7			
11111	1	-							CONTRACT	NO. 618	384
	SHEET	NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT		-

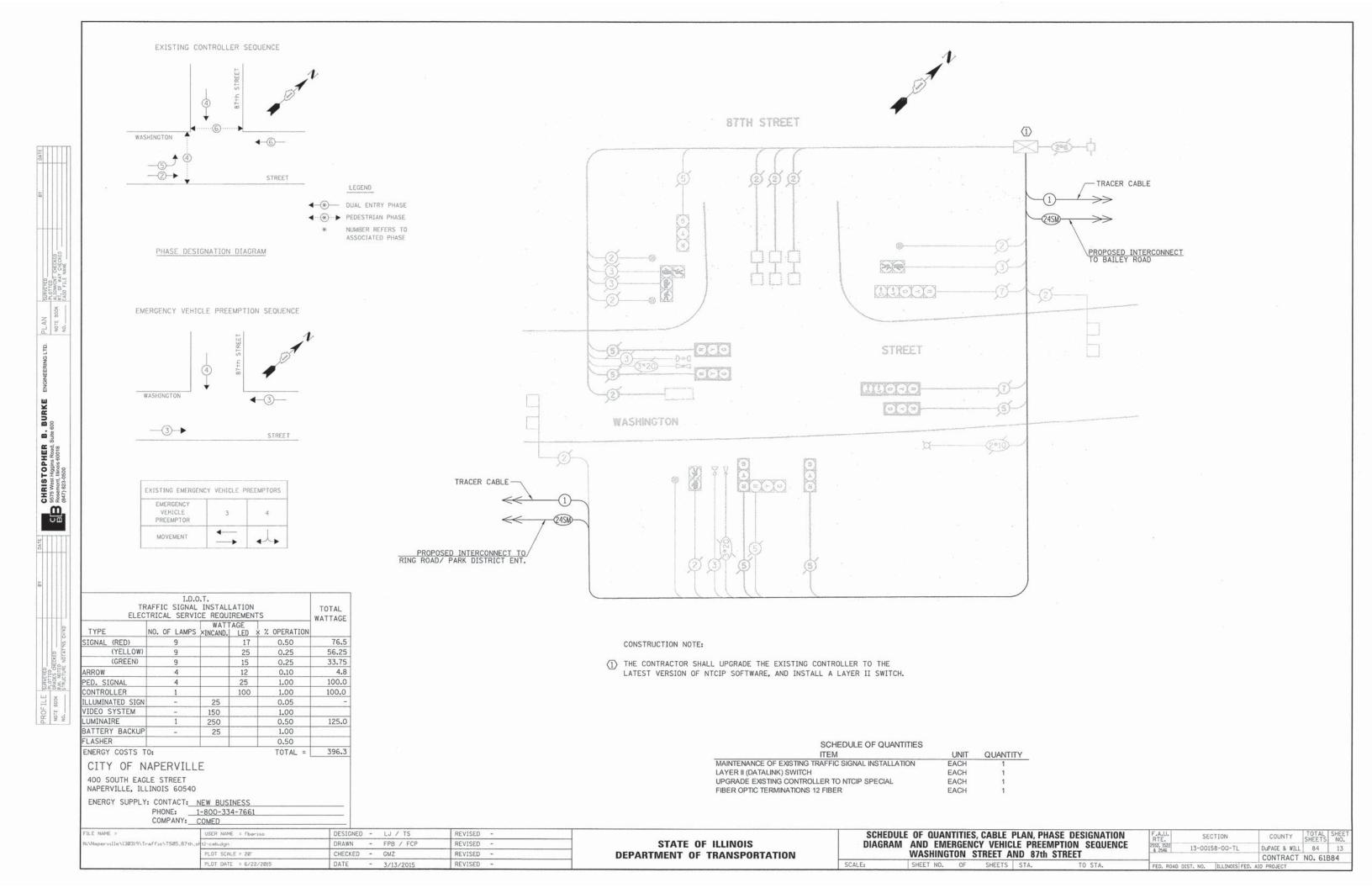


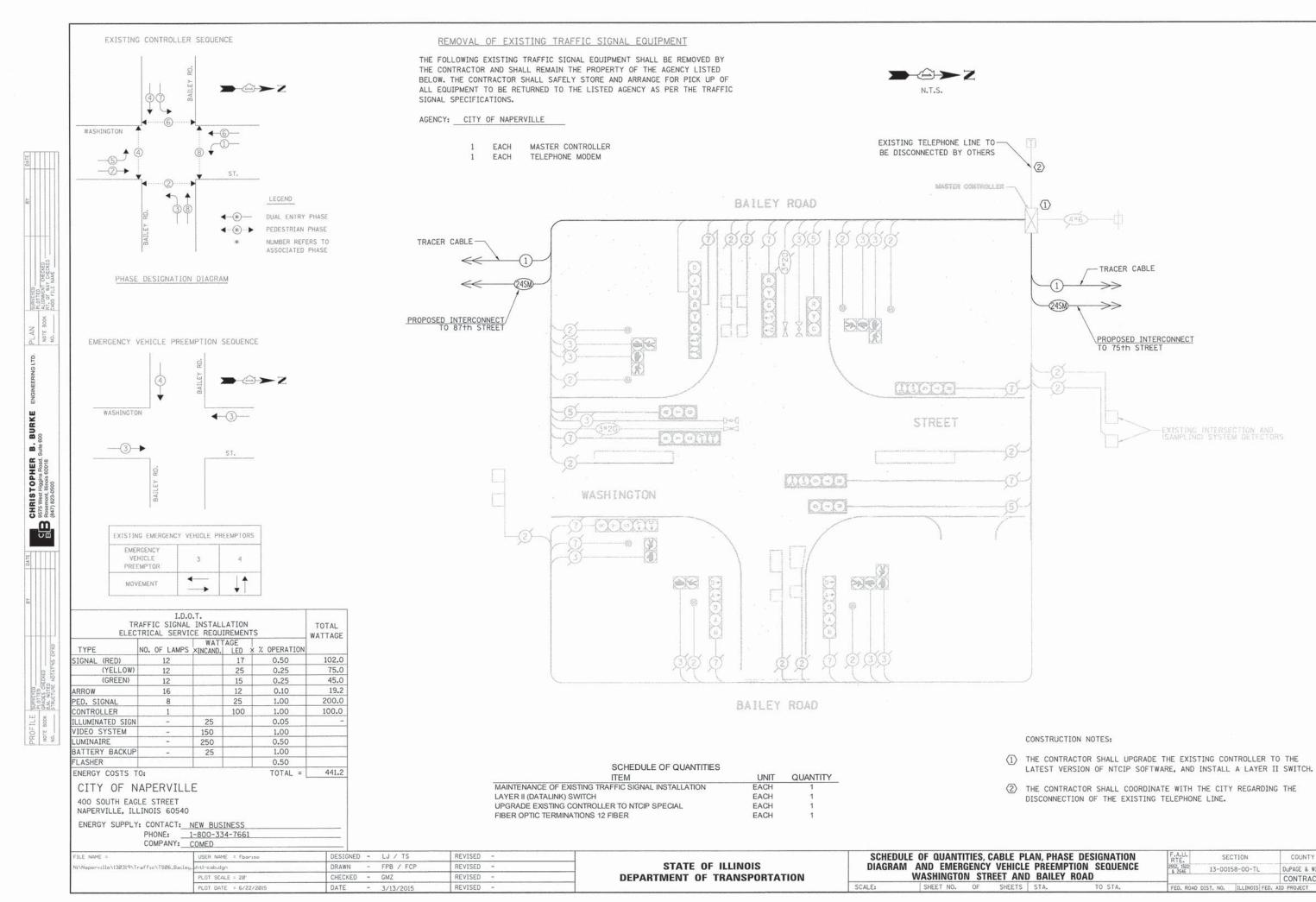








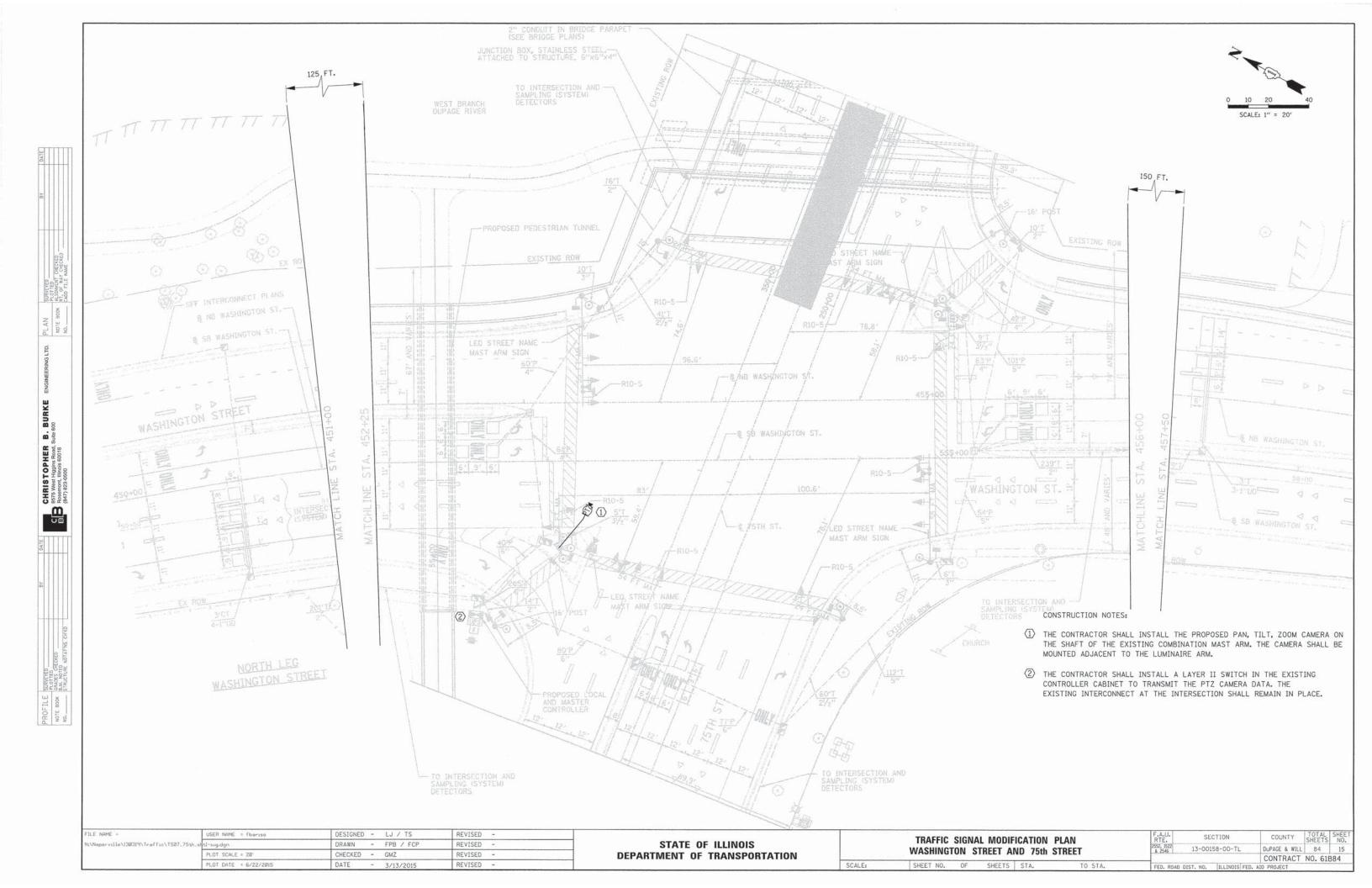


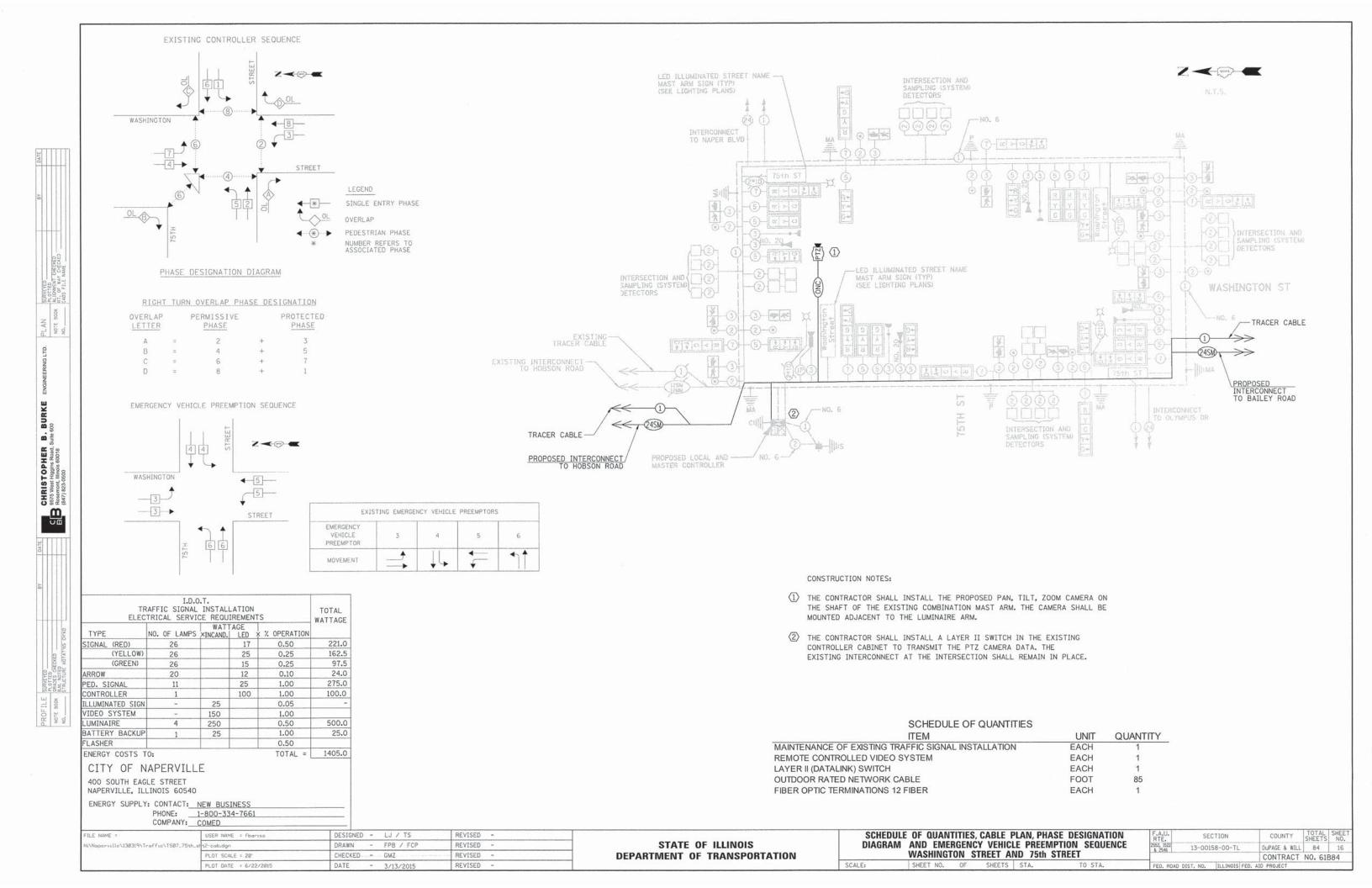


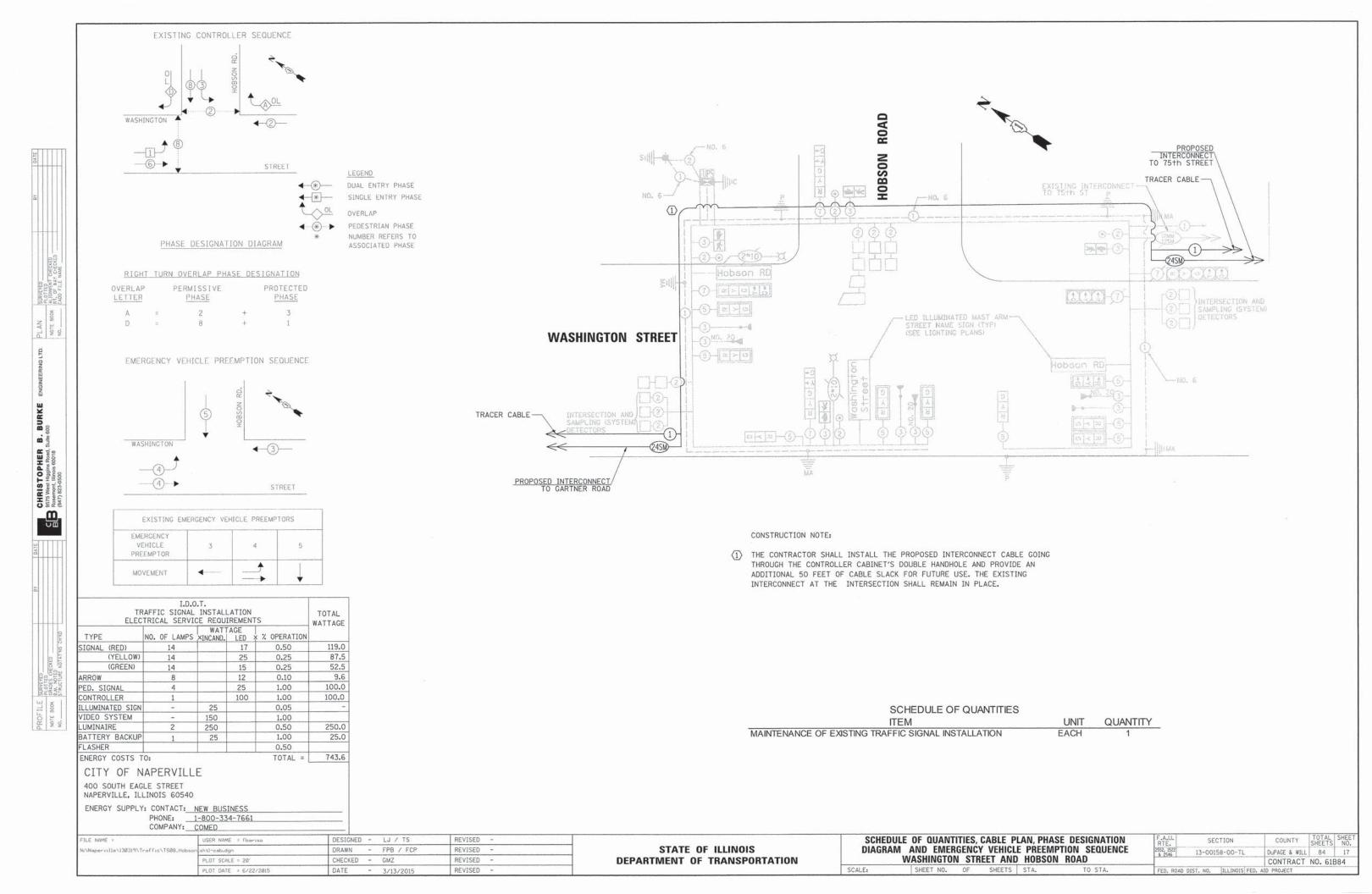
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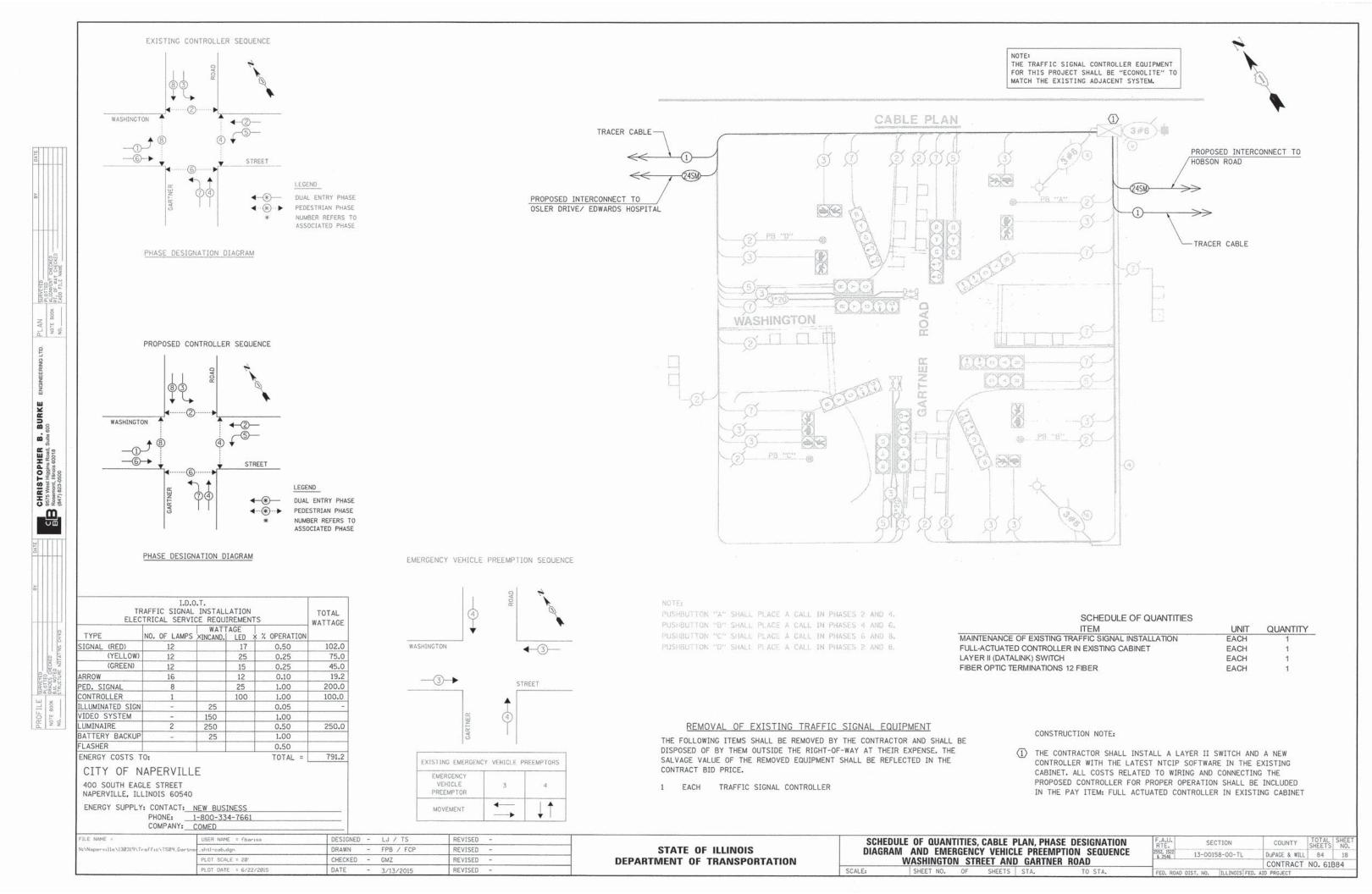
DuPAGE & WILL 84

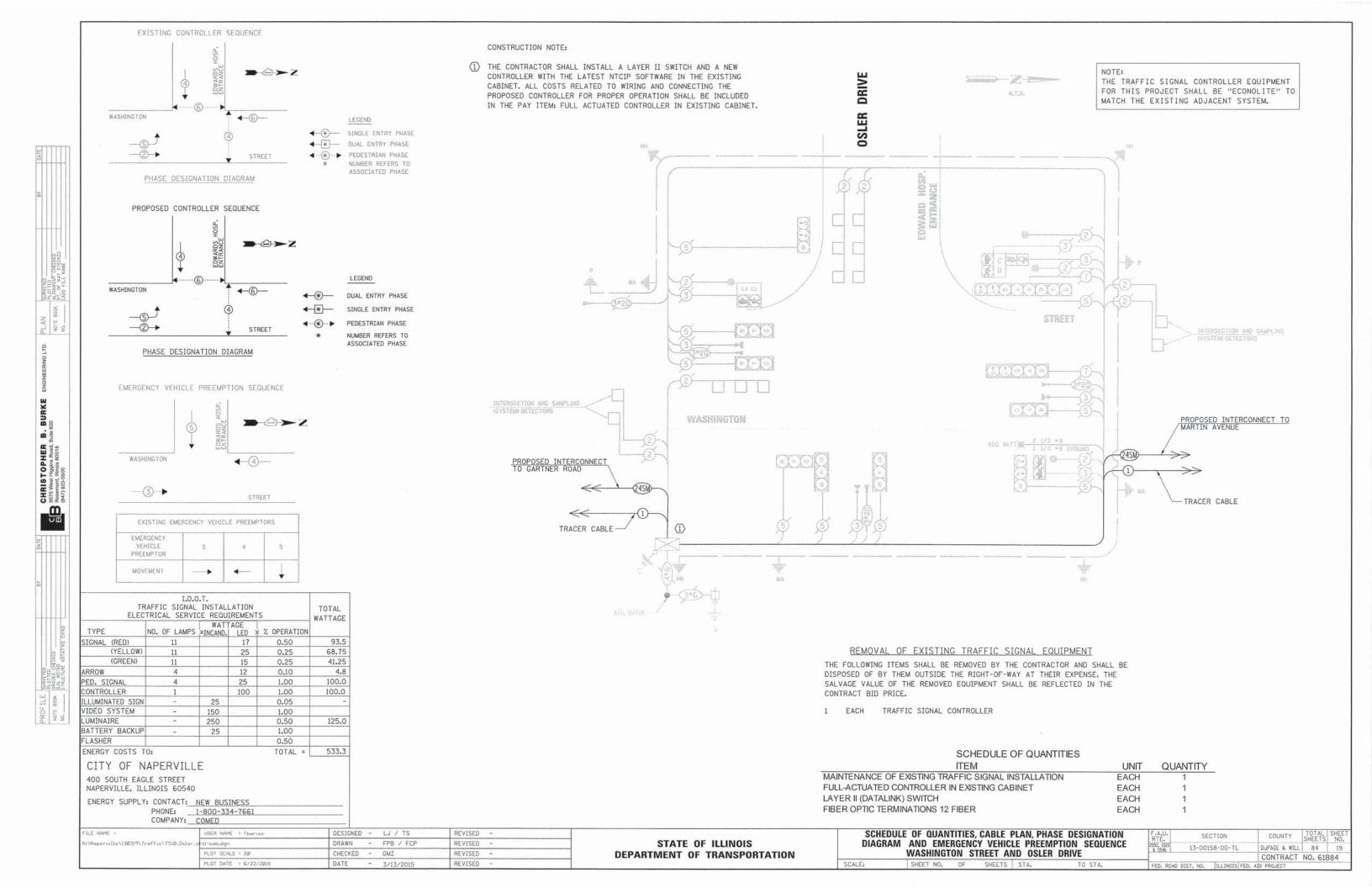
CONTRACT NO. 61B84

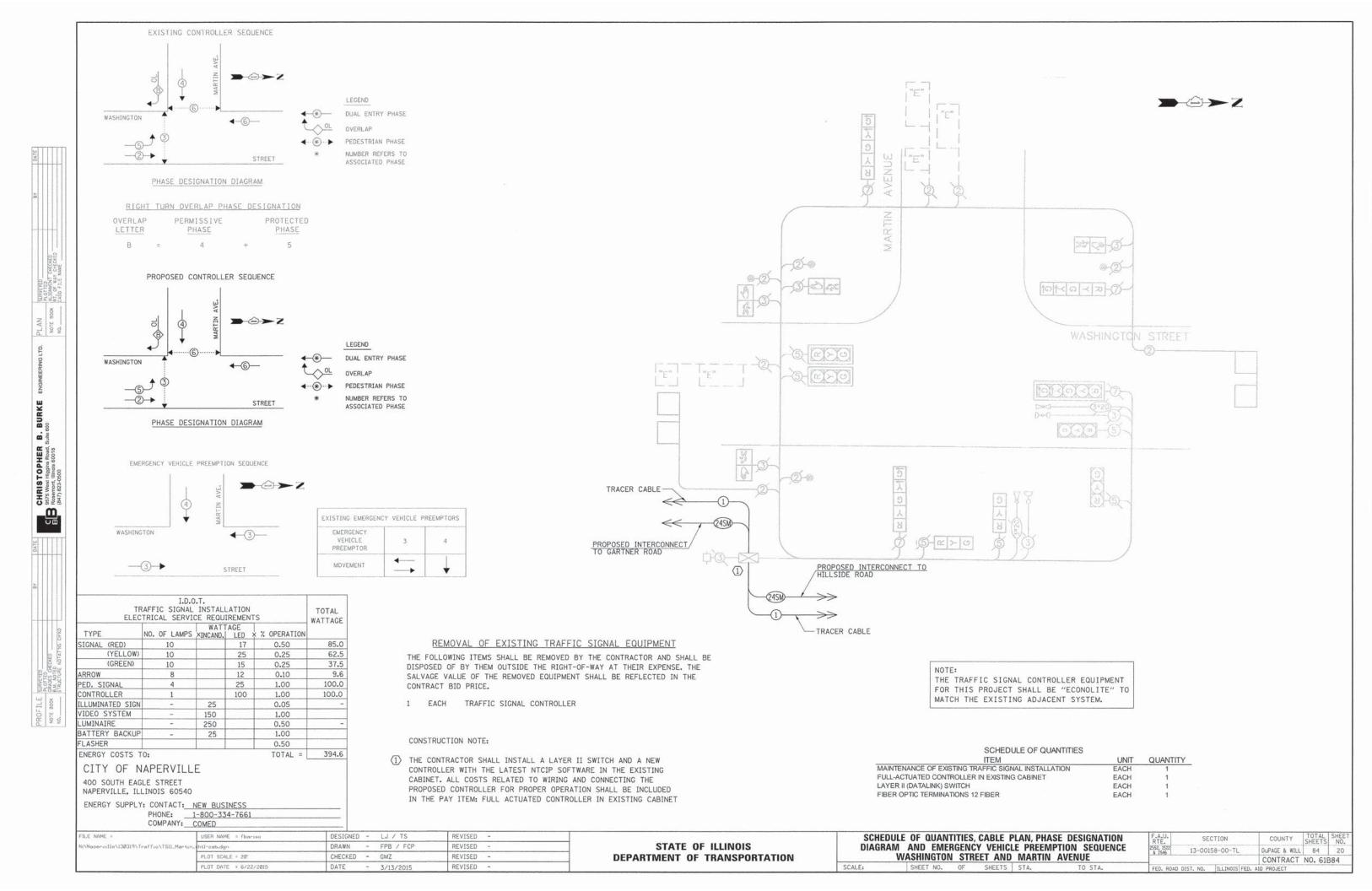


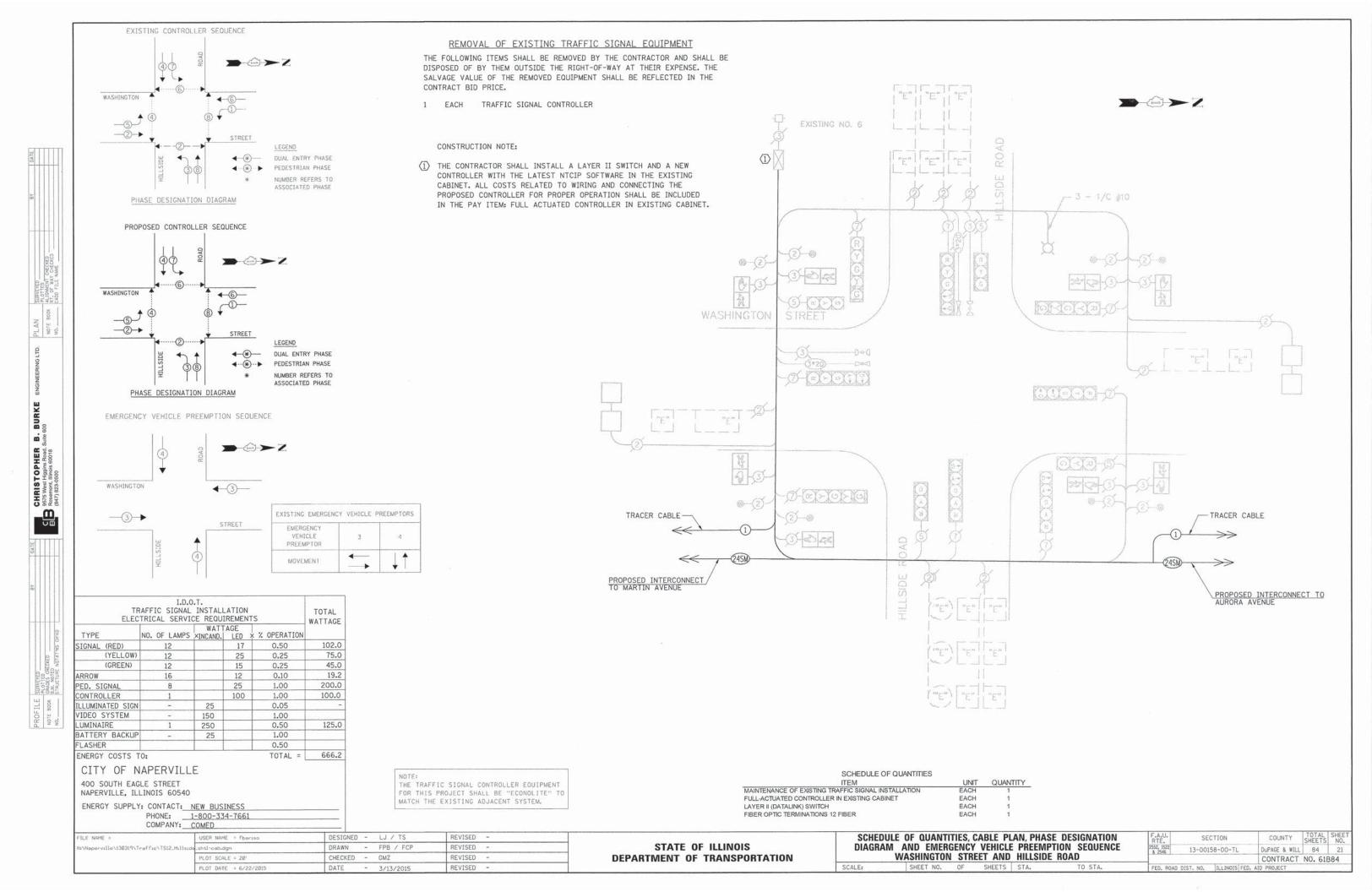


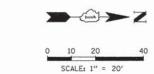


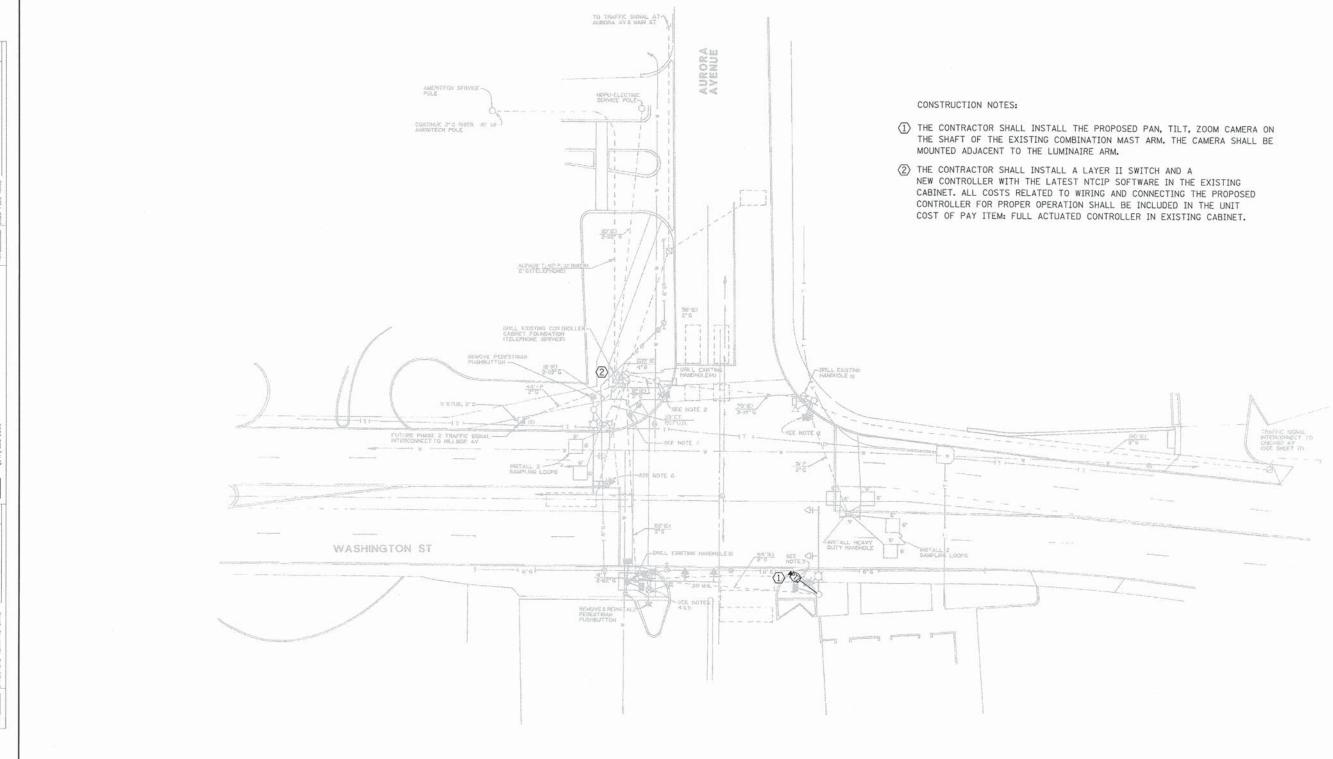












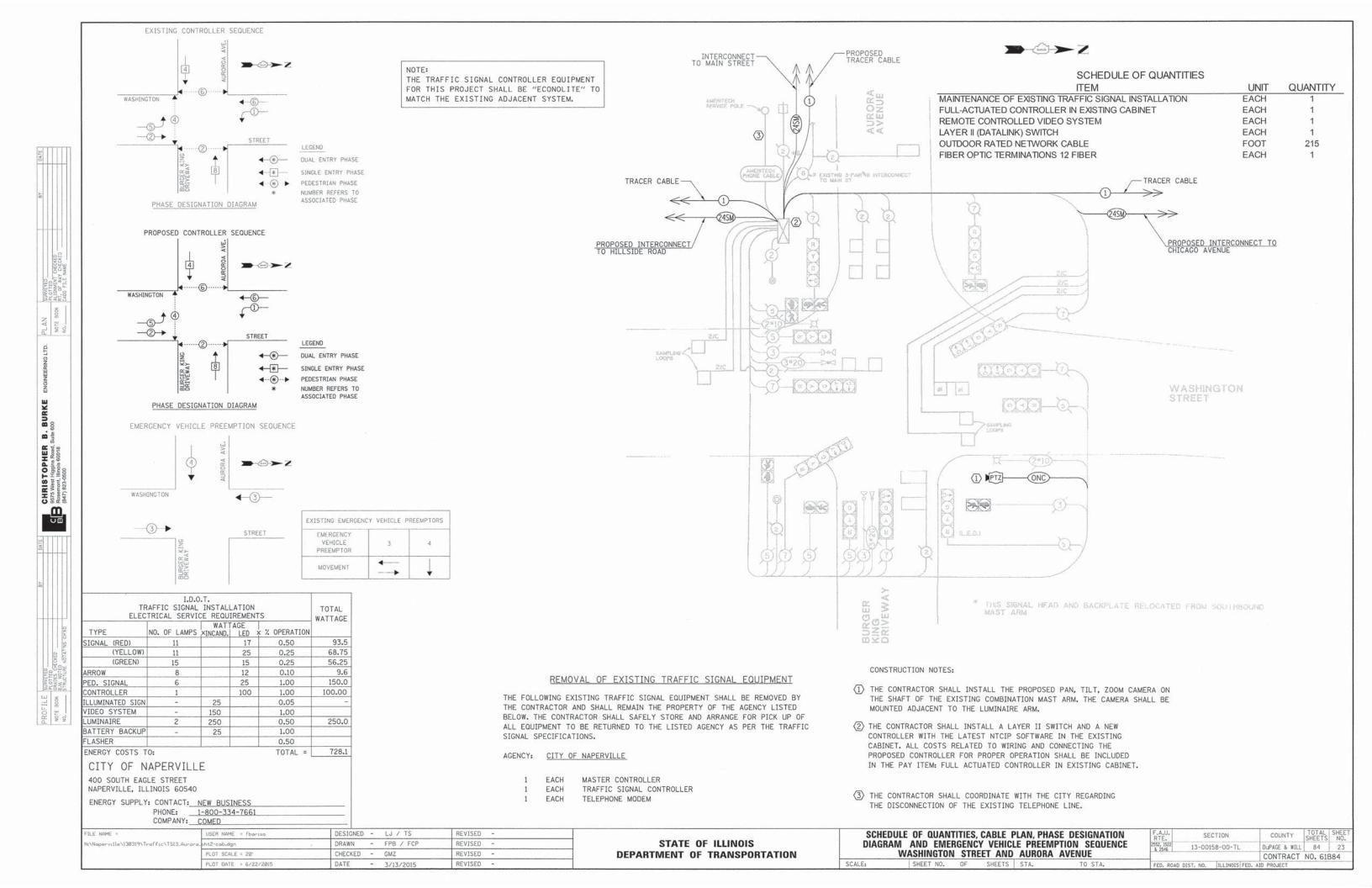
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1	PLOT SCALE = 20'	CHECKED - GMZ REVISED -	1
	PLOT DATE = 6/22/2015	DATE - 3/13/2015 REVISED -	7
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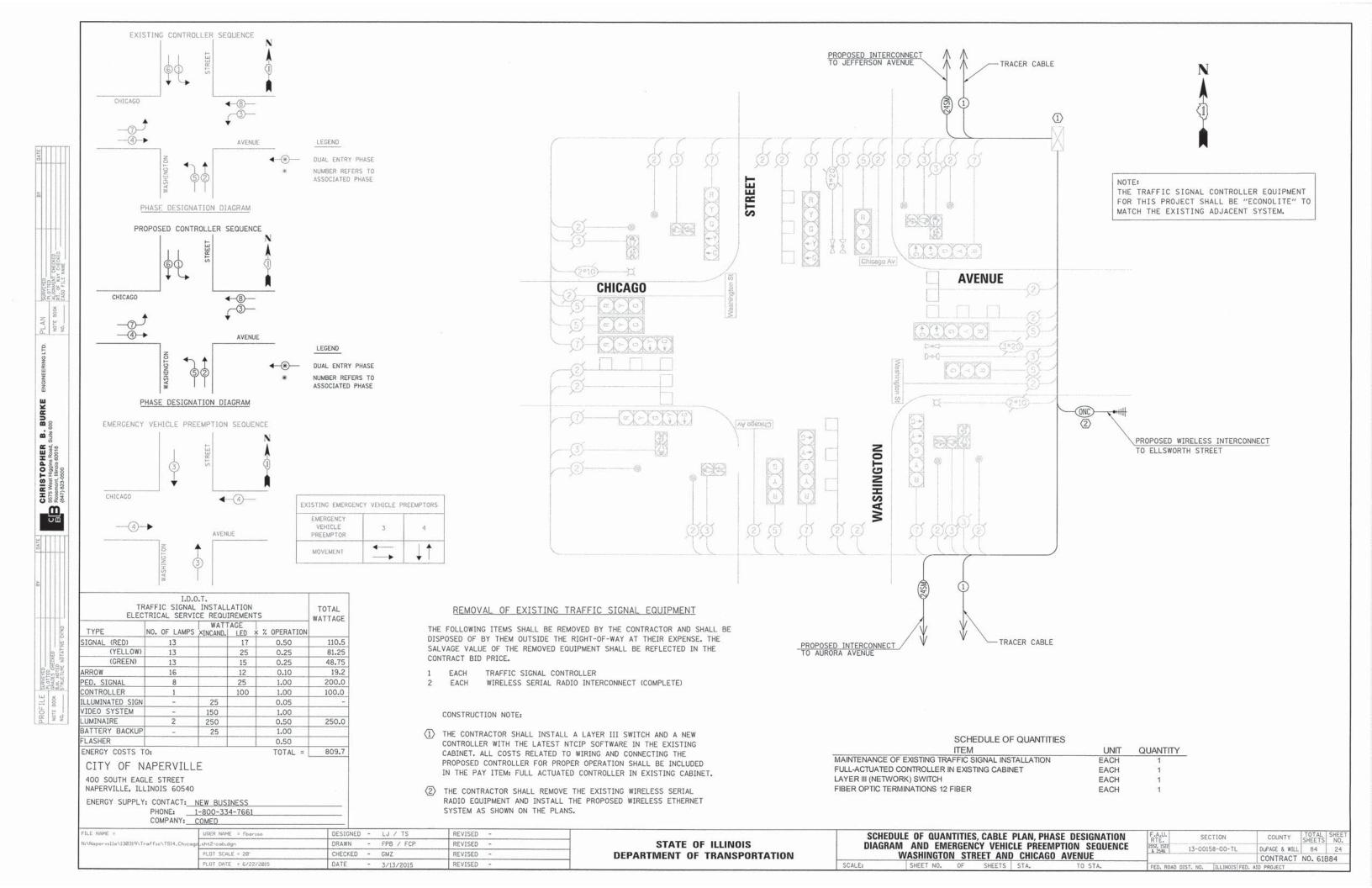
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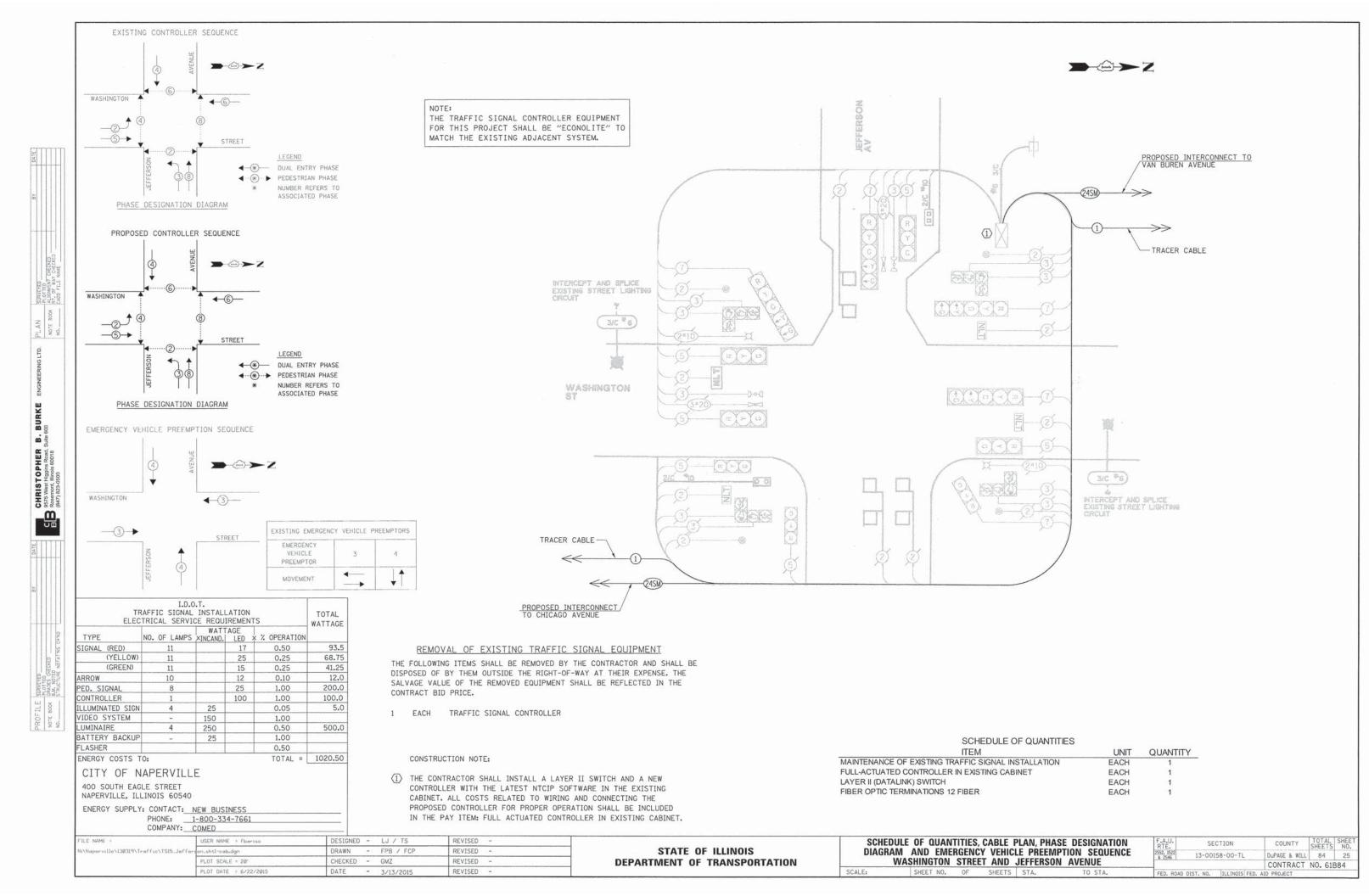
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

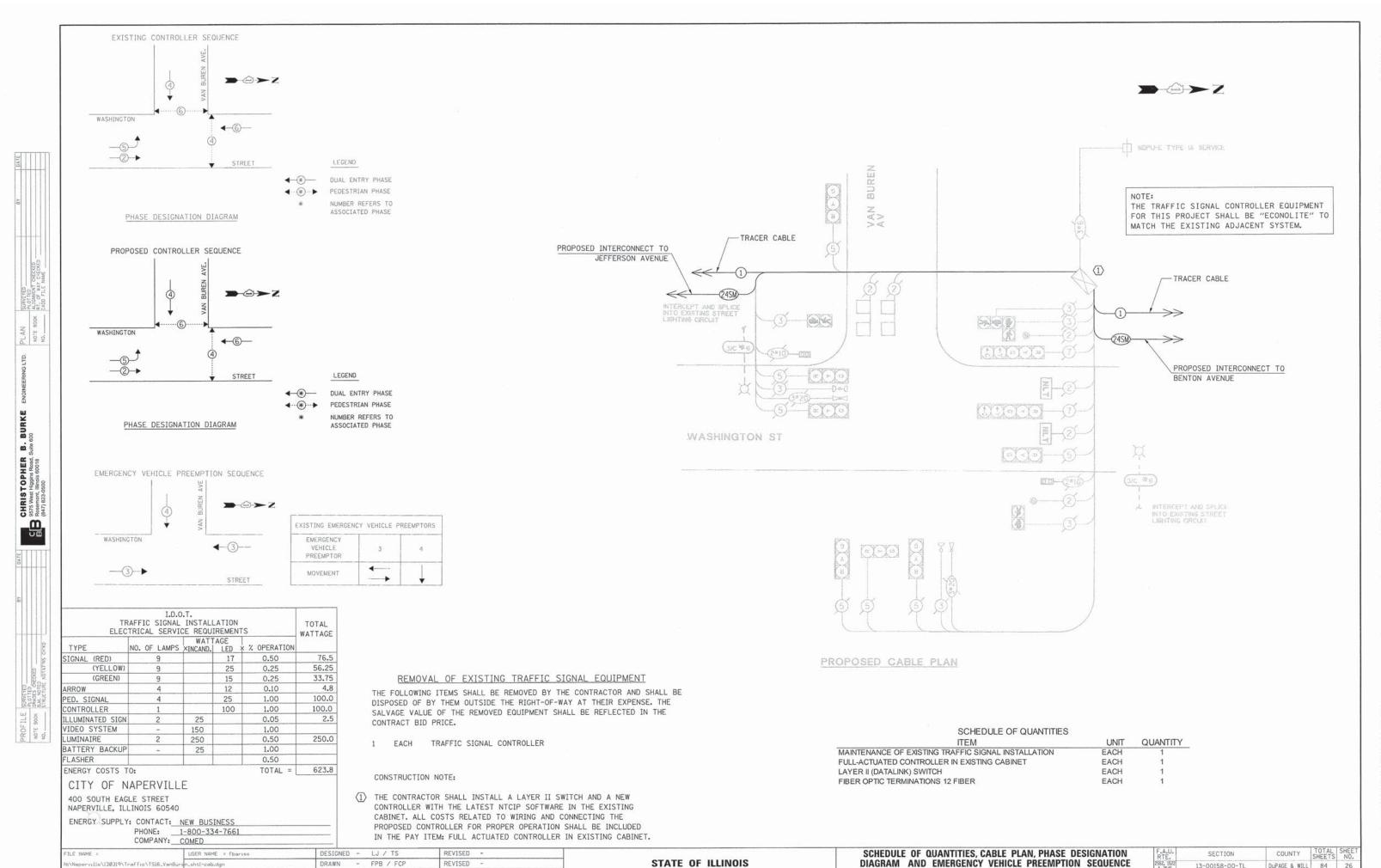
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TRAFFIC SIGNAL MODIFICATION PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
WASHINGTON STREET AND AURORA AVENUE	2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	22
WASHINGTON STILLET AND ADMIDIA AVENUE			CONTRACT	NO. 61	384
SHEET NO DE SHEETS STA TO STA	550 0010	ever up Inchieveless	IN DOG COT		









DEPARTMENT OF TRANSPORTATION

DuPAGE & WILL 84 26

CONTRACT NO. 61B84

13-00158-00-TL

WASHINGTON STREET AND VAN BUREN AVENUE

DRAWN - FPB / FCF

- 3/13/2015

CHECKED - GMZ

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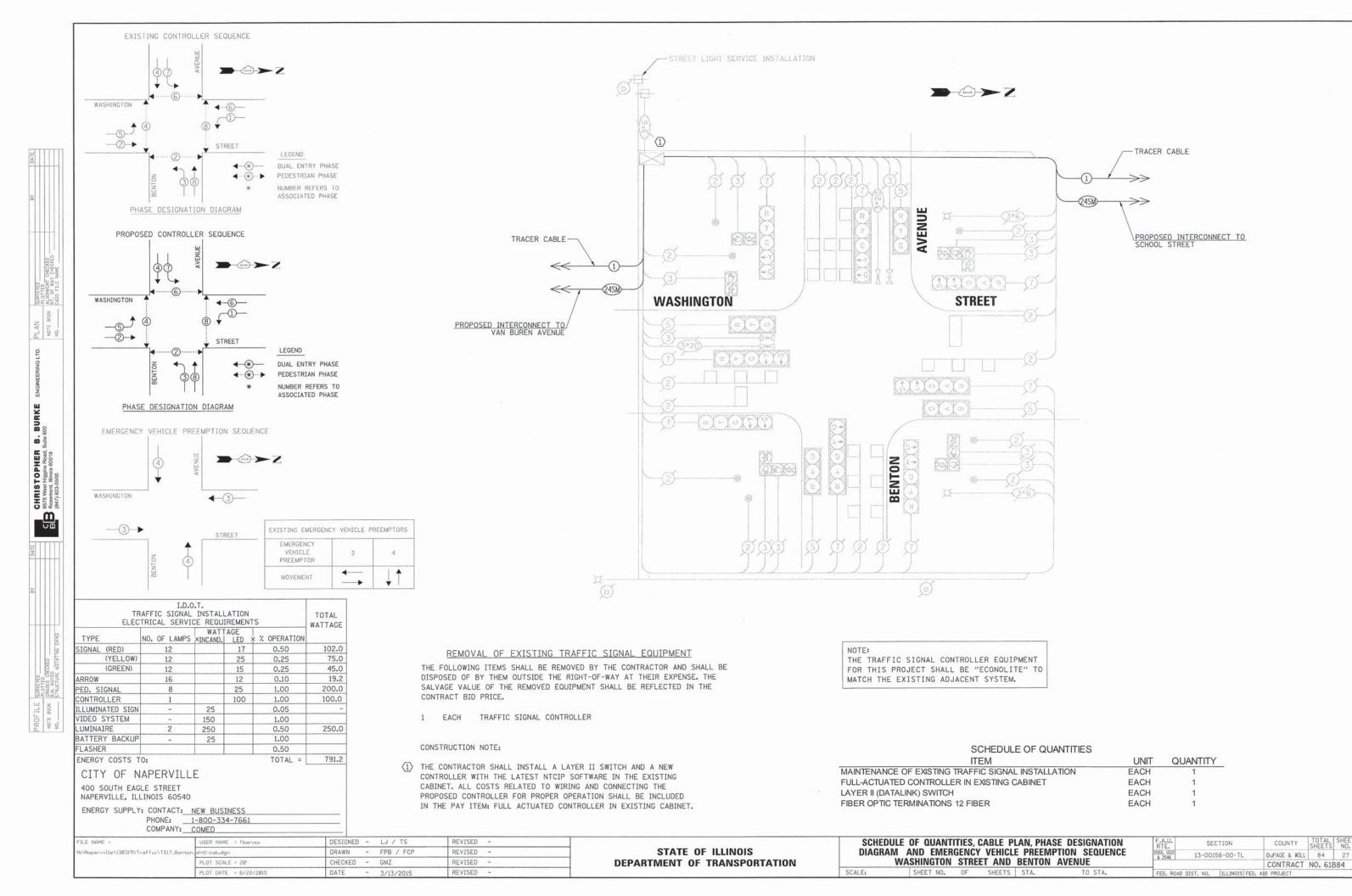
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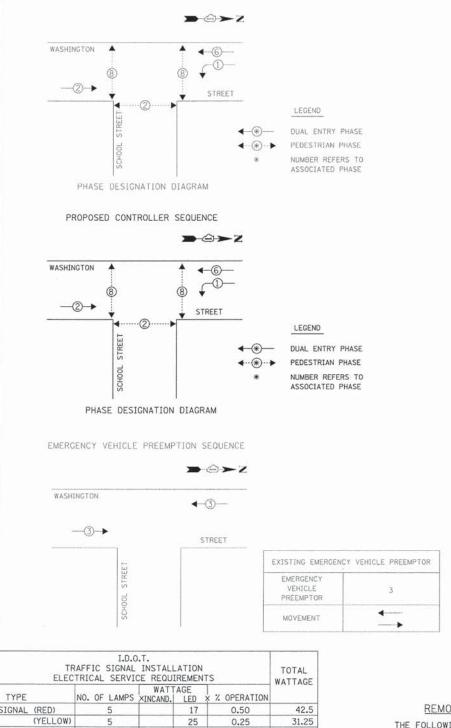
PLOT DATE = 6/22/2015

REVISED

REVISED

REVISED -





EXISTING CONTROLLER SEQUENCE

On One

TYPE

ARROW

PED. SIGNAL

LIMINATRE

LASHER

CONTROLLER

LLUMINATED SIGN

IDEO SYSTEM

BATTERY BACKUP

ENERGY COSTS TO:

CITY OF NAPERVILLE

400 SOUTH EAGLE STREET

NAPERVILLE, ILLINOIS 60540

ENERGY SUPPLY: CONTACT: NEW BUSINESS

(GREEN)

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. 1 EACH TRAFFIC SIGNAL CONTROLLER

TRACER CABLE -

PROPOSED INTERCONNECT TO

BENTON AVENUE

<<

WASHINGTON ST.

EXISTING NOPU-E 4" DUCT USED FOR WASHINGTON ST

1

CONSTRUCTION NOTE:

(1) THE CONTRACTOR SHALL INSTALL A LAYER II SWITCH AND A NEW CONTROLLER WITH THE LATEST NTCIP SOFTWARE IN THE EXISTING CABINET. ALL COSTS RELATED TO WIRING AND CONNECTING THE PROPOSED CONTROLLER FOR PROPER OPERATION SHALL BE INCLUDED IN THE PAY ITEM: FULL ACTUATED CONTROLLER IN EXISTING CABINET.

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CABLE PLAN N.T.S.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FIBER OPTIC TERMINATIONS 12 FIBER	EACH	1

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	PLOT SCALE = 20'	CHECKED -	GMZ	REVISED		DEPARTMENT OF TRANSPORTATION
	PLOT DATE = 6/22/2015	DATE -	3/13/2015	REVISED	=	

18.75

150.0

100.0

4.8

2.5

125.0

474.8

12

25

100

25

150

25

PHONE: 1-800-334-7661 COMPANY: COMED

0.10

1.00

1.00

0.05

1.00

0.50

1.00

0.50

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION SECTION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 13-00158-00-TL WASHINGTON STREET AND SCHOOL STREET SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEE NO.

DuPAGE & WILL 84 28

CONTRACT NO. 61B84

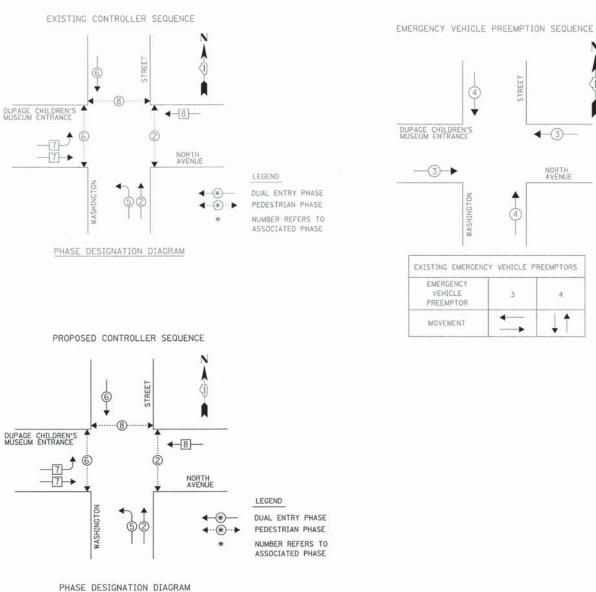
PROPOSED INTERCONNECT TO

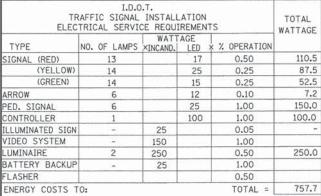
NORTH AVENUE

TRACER CABLE



m a





CITY OF NAPERVILLE

400 SOUTH EAGLE STREET NAPERVILLE, ILLINOIS 60540

ENERGY SUPPLY: CONTACT: NEW BUSINESS PHONE: 1-800-334-7661 COMPANY: COMED

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

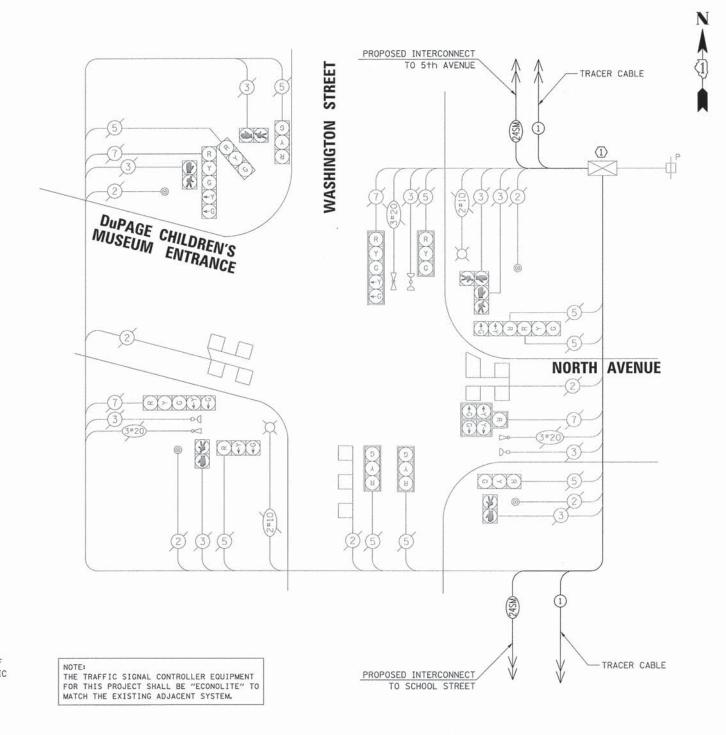
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: CITY OF NAPERVILLE

1 EACH TRAFFIC SIGNAL CONTROLLER

CONSTRUCTION NOTE:

1 THE CONTRACTOR SHALL INSTALL A LAYER II SWITCH AND A NEW CONTROLLER WITH THE LATEST NTCIP SOFTWARE IN THE EXISTING CABINET. ALL COSTS RELATED TO WIRING AND CONNECTING THE PROPOSED CONTROLLER FOR PROPER OPERATION SHALL BE INCLUDED IN THE PAY ITEM: FULL ACTUATED CONTROLLER IN EXISTING CABINET.



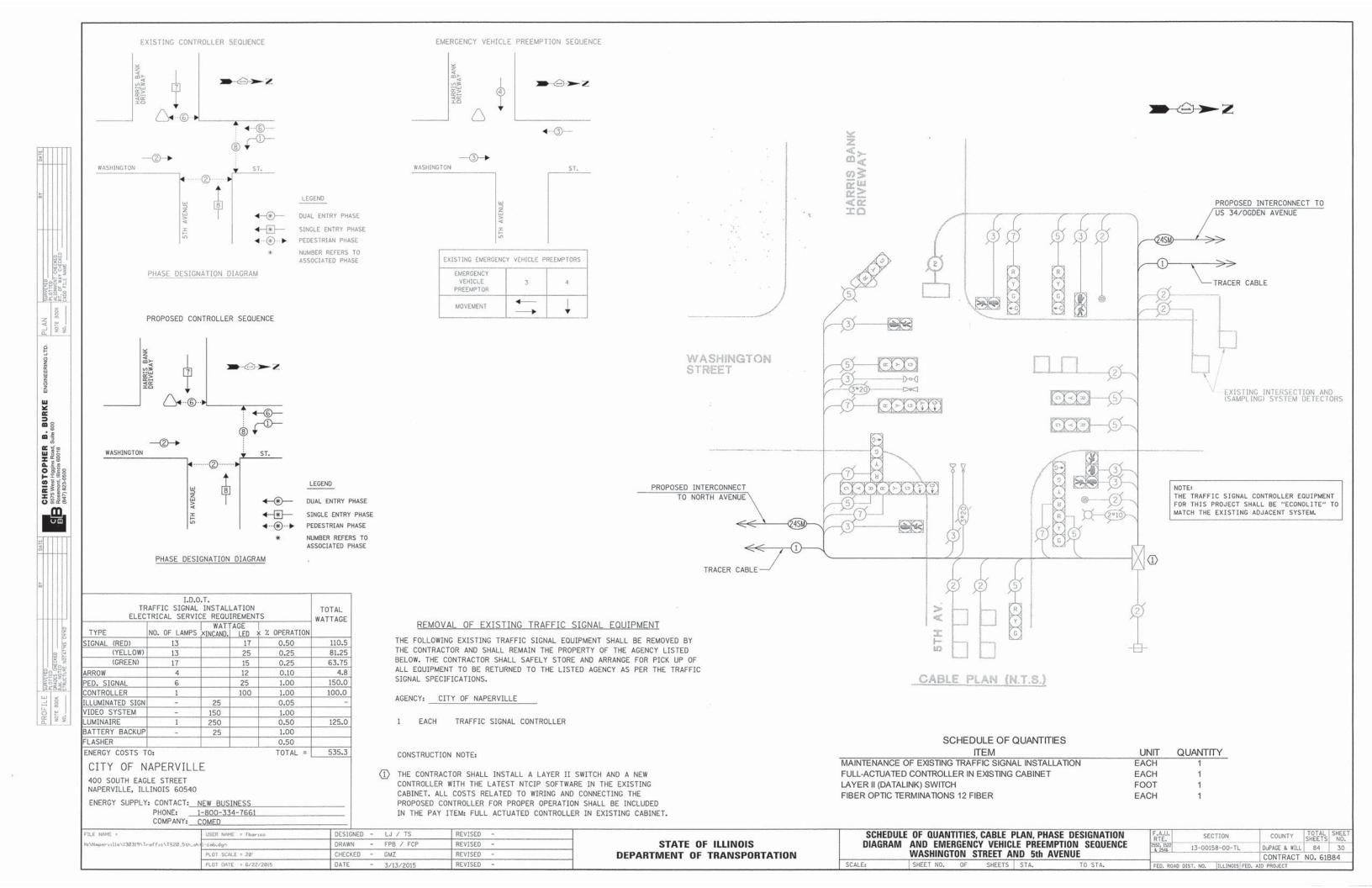
SCHEDULE OF QUANTITIES

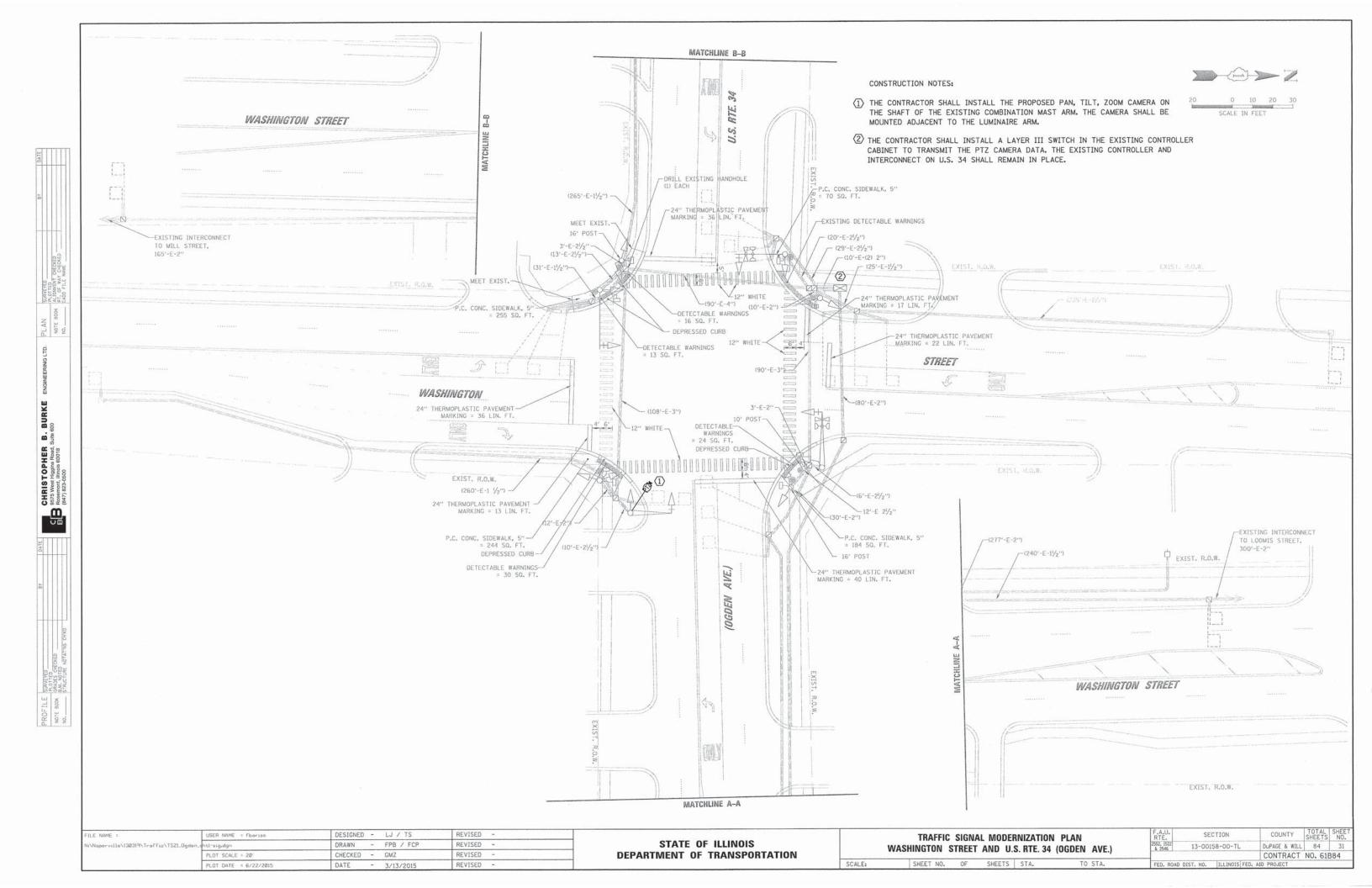
ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FIBER OPTIC TERMINATIONS 12 FIBER	EACH	1

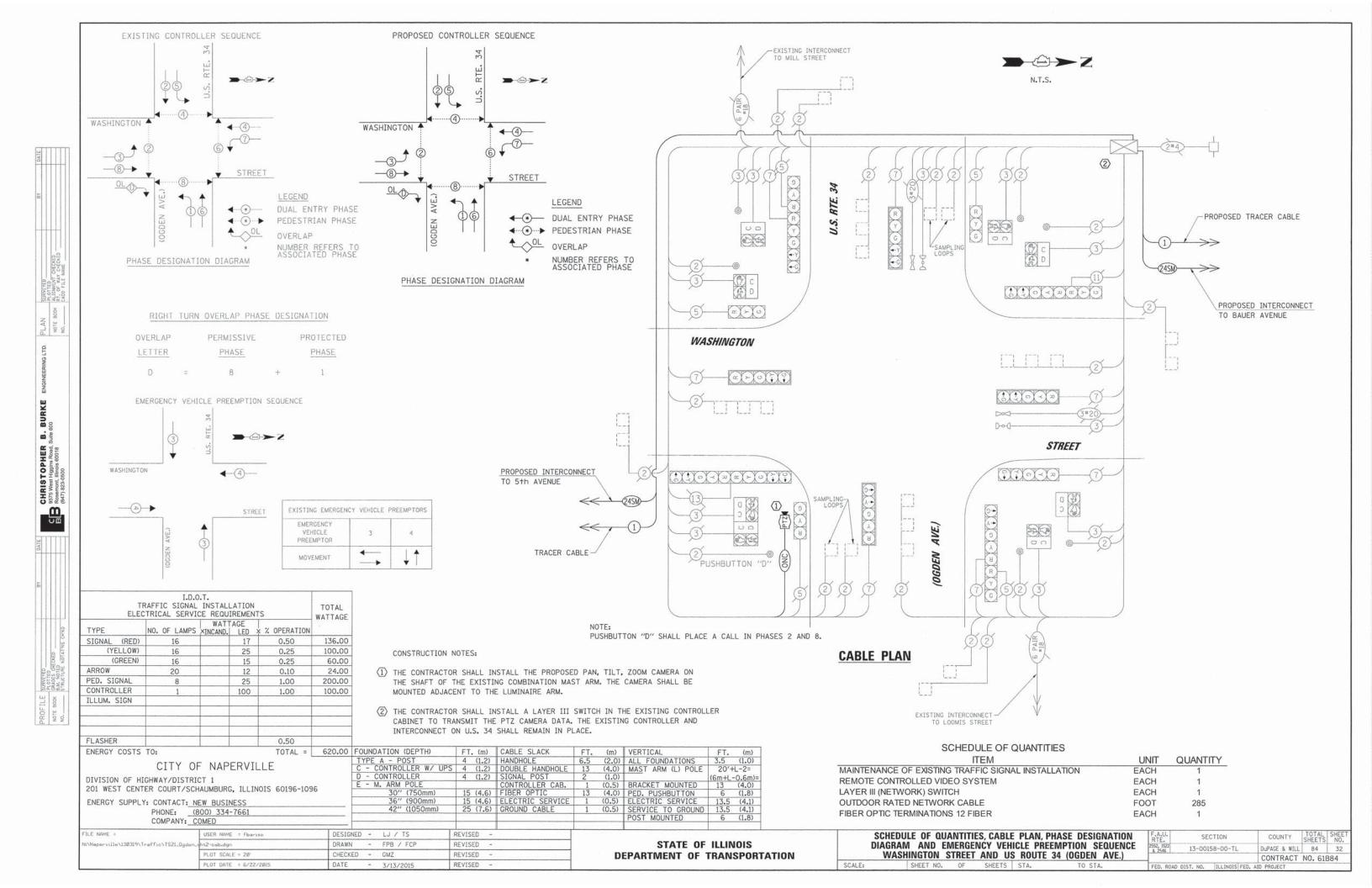
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	PLOT DATE = 6/22/2015	DATE - 3/13/2015	REVISED -

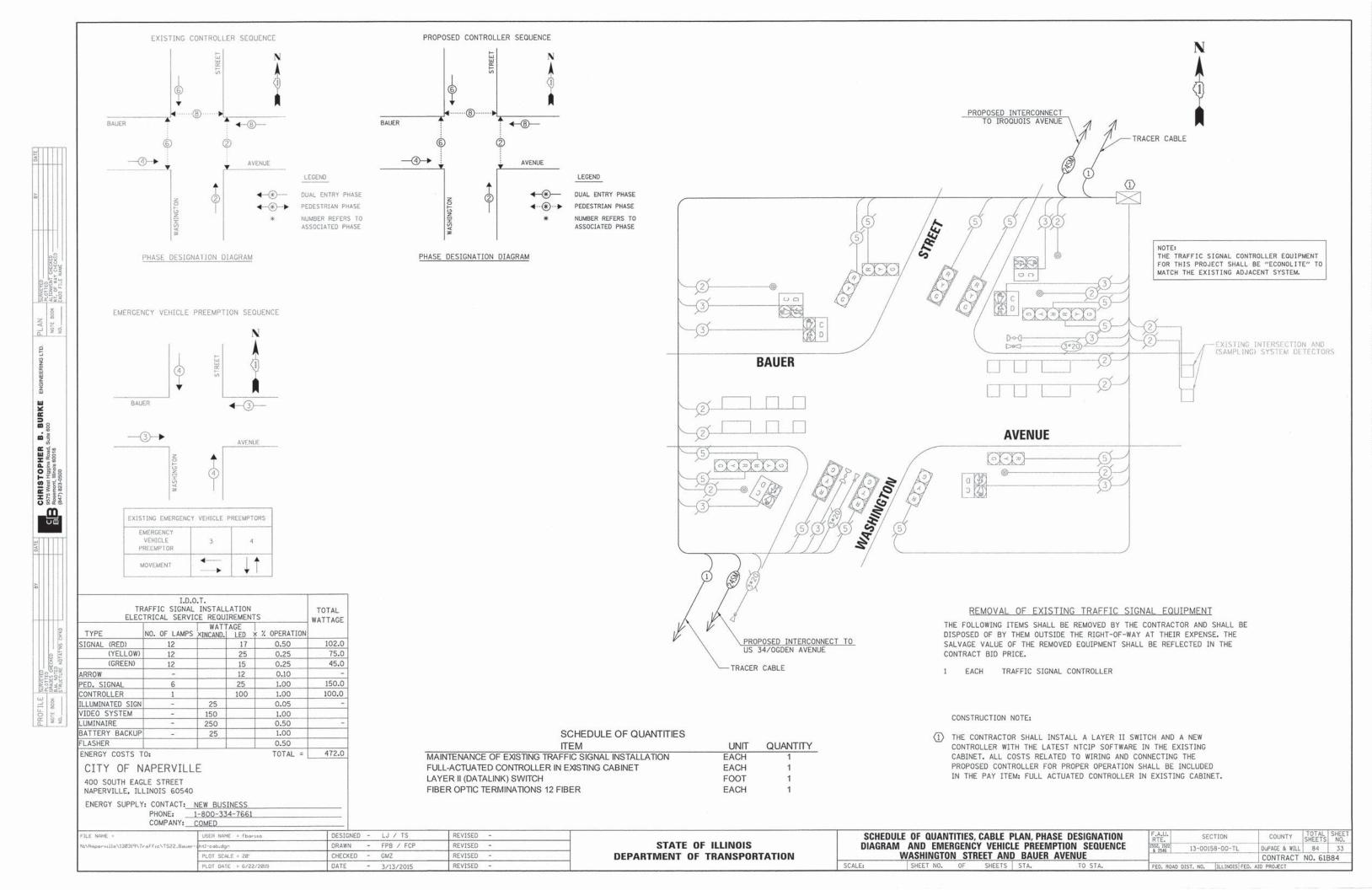
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

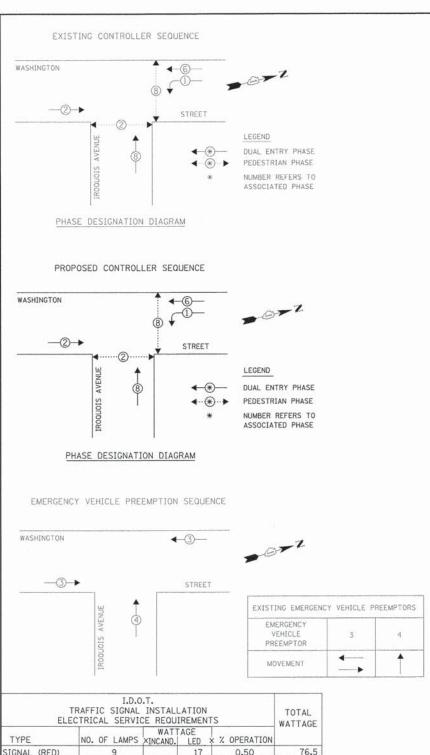
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION SECTION COUNTY DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE DuPAGE & WILL 84 13-00158-00-TL WASHINGTON STREET AND NORTH AVENUE CONTRACT NO. 61B84 SHEET NO. OF SHEETS STA.











I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. OF LAMPS	WATT XINCAND.		× % OPERATION	WATTAGE	
SIGNAL (RED)	9	0.500.000.000.000	17	0.50	76.5	
(YELLOW)	9		25	0.25	56.25	
(GREEN)	11		15	0.25	41.25	
ARROW	4		12	0.10	4.8	
PED. SIGNAL	4		25	1.00	100.8	
CONTROLLER	1		100	1.00	100.0	
ILLUMINATED SIGN	-	25		0.05	-	
VIDEO SYSTEM	-	150		1.00		
LUMINAIRE	1	250		0.50	125.0	
BATTERY BACKUP	-	25		1.00		
FLASHER				0.50		
ENERGY COSTS T	0:			TOTAL =	403.8	

CITY OF NAPERVILLE

400 SOUTH EAGLE STREET NAPERVILLE, ILLINOIS 60540

ENERGY SUPPLY: CONTACT: NEW BUSINESS

PHONE: 1-800-334-7661 COMPANY: COMED

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

TRACER CABLR

PROPOSED INTERCONNECT TO/

BAUER AVENUE

WASHINGTON

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE, THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH TRAFFIC SIGNAL CONTROLLER

CONSTRUCTION NOTE:

1 THE CONTRACTOR SHALL INSTALL A LAYER II SWITCH AND A NEW CONTROLLER WITH THE LATEST NTCIP SOFTWARE IN THE EXISTING CABINET. ALL COSTS RELATED TO WIRING AND CONNECTING THE PROPOSED CONTROLLER FOR PROPER OPERATION SHALL BE INCLUDED IN THE PAY ITEM: FULL ACTUATED CONTROLLER IN EXISTING CABINET.

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

IROQUOIS

SCHEDULE OF QUANTITIES

STREET

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FIBER OPTIC TERMINATIONS 12 FIBER	EACH	1

AME =	USER NAME = fbariso	DESIGNED - LJ / TS	REVISED -	
erville\130319\Traffic\TS23_lroque	s-shtl-cab.dgn	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS
	PLOT SCALE = 20"	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION
		DATE	DEVICED	

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				F.A.U. RTE.	SE	CTION	COUNTY	TOTAL	SHEET NO.		
				2552, 1522 8 2546 13-00158-00-TL		DuPAGE & WILL	84	34			
	VASHINGTON	STRI	EET AND	IROQUOIS	AVENUE				CONTRACT	NO. 61	B84
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO.	ILLINOIS FED.	AID PROJECT		

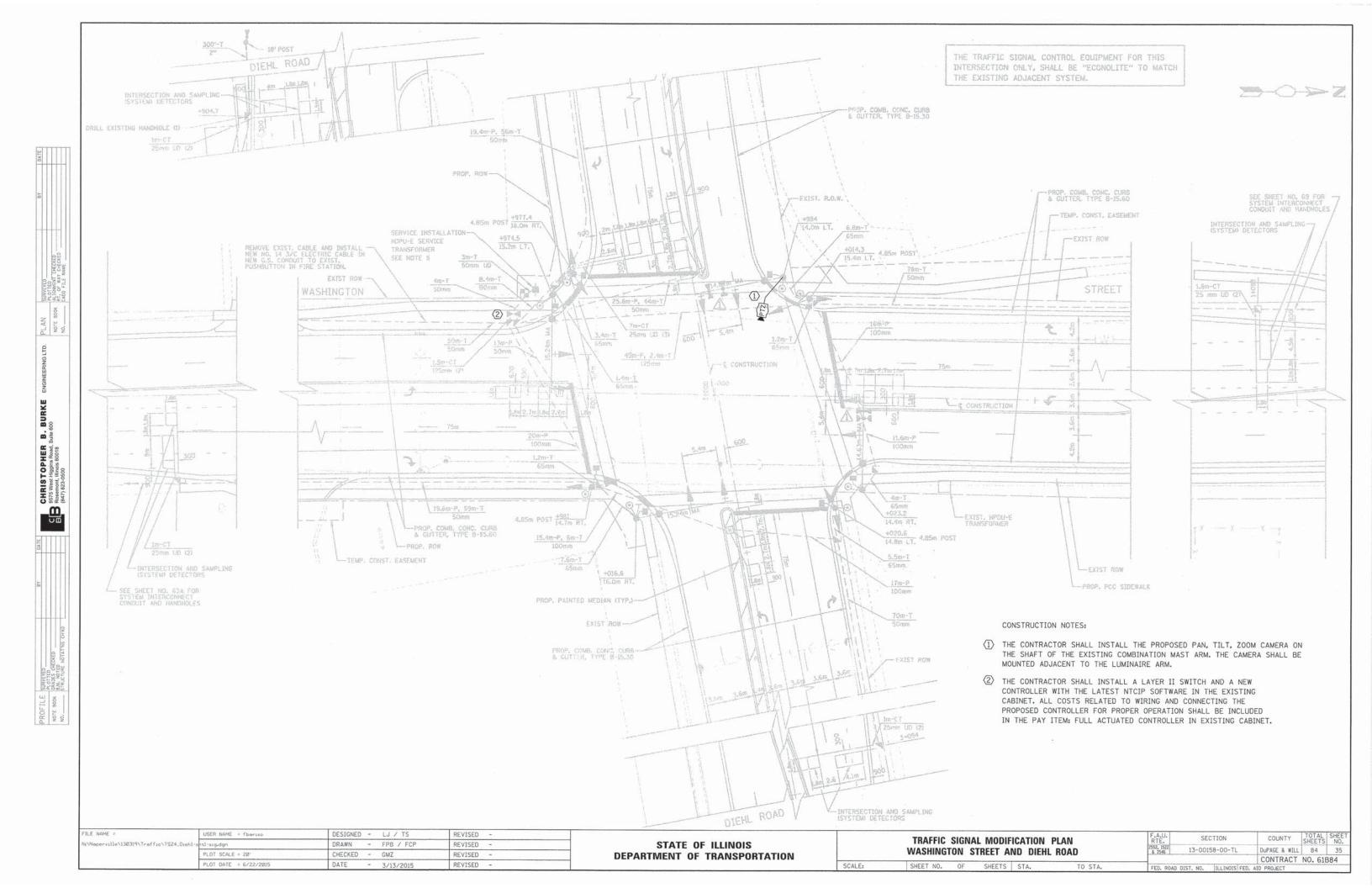
-EXISTING INTERSECTION SAMPLING

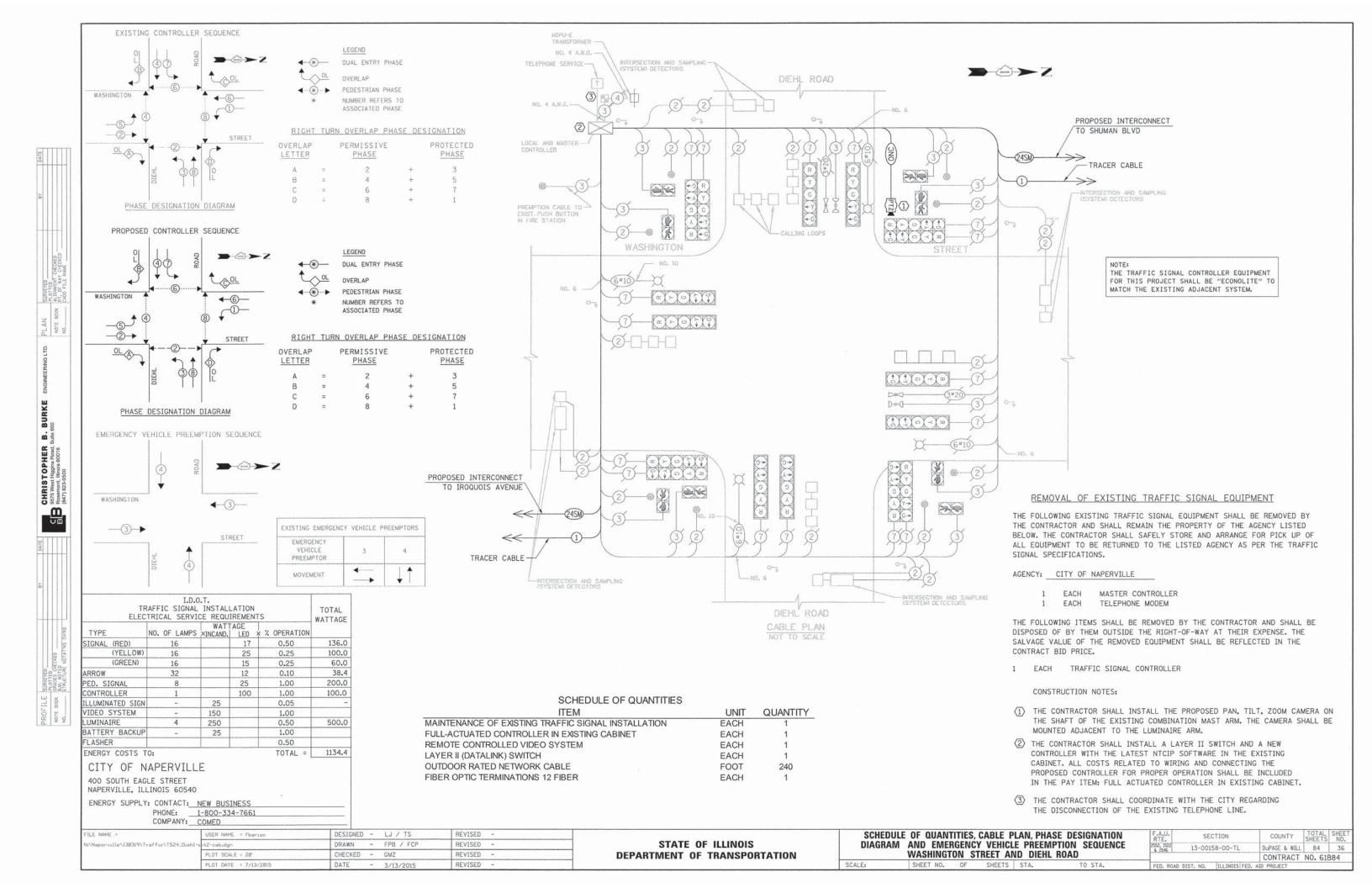
PROPOSED INTERCONNECT TO

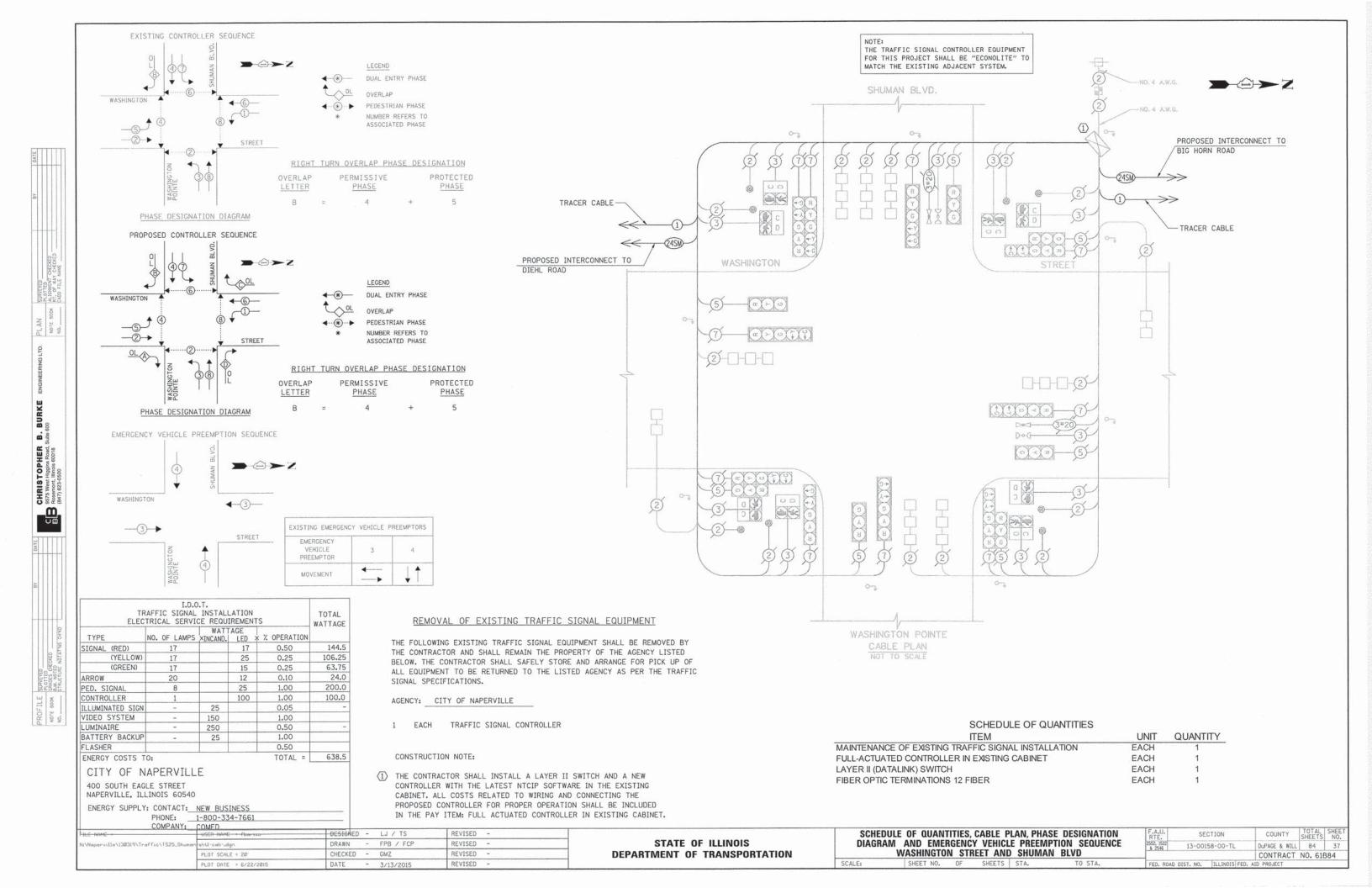
(SYSTEM) DETECTOR LOOPS

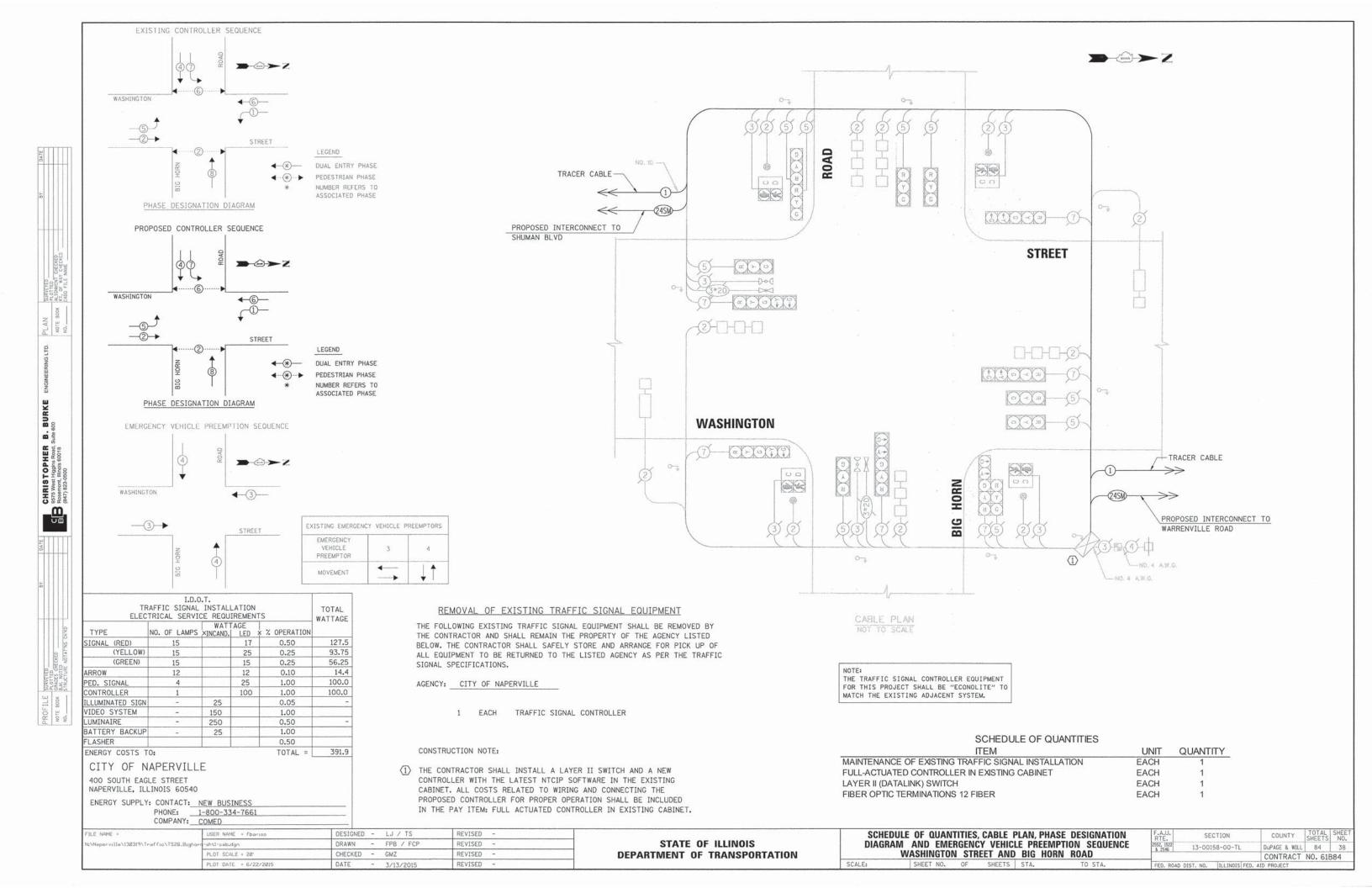
TRACER CABLE

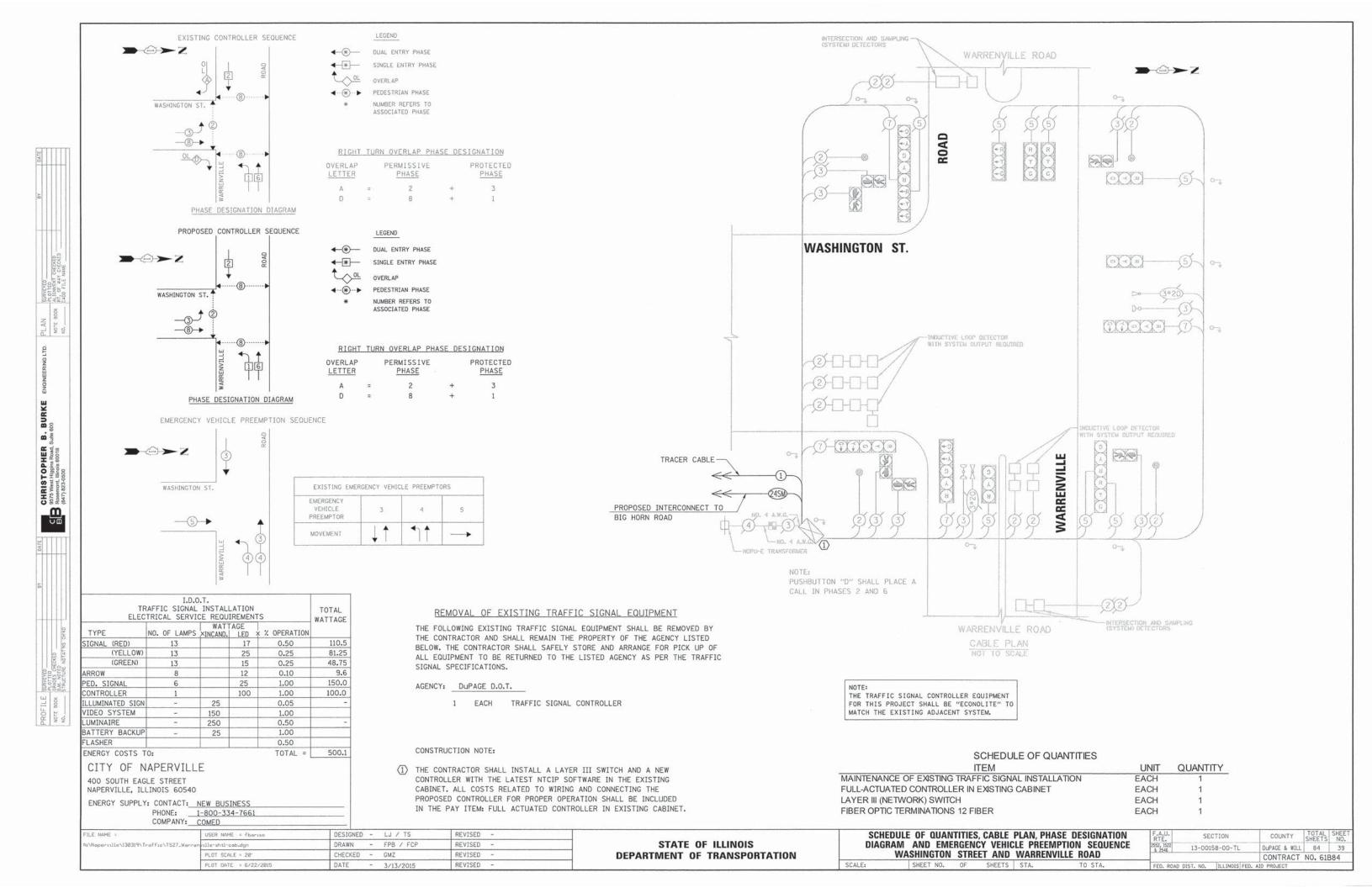
DIEHL ROAD

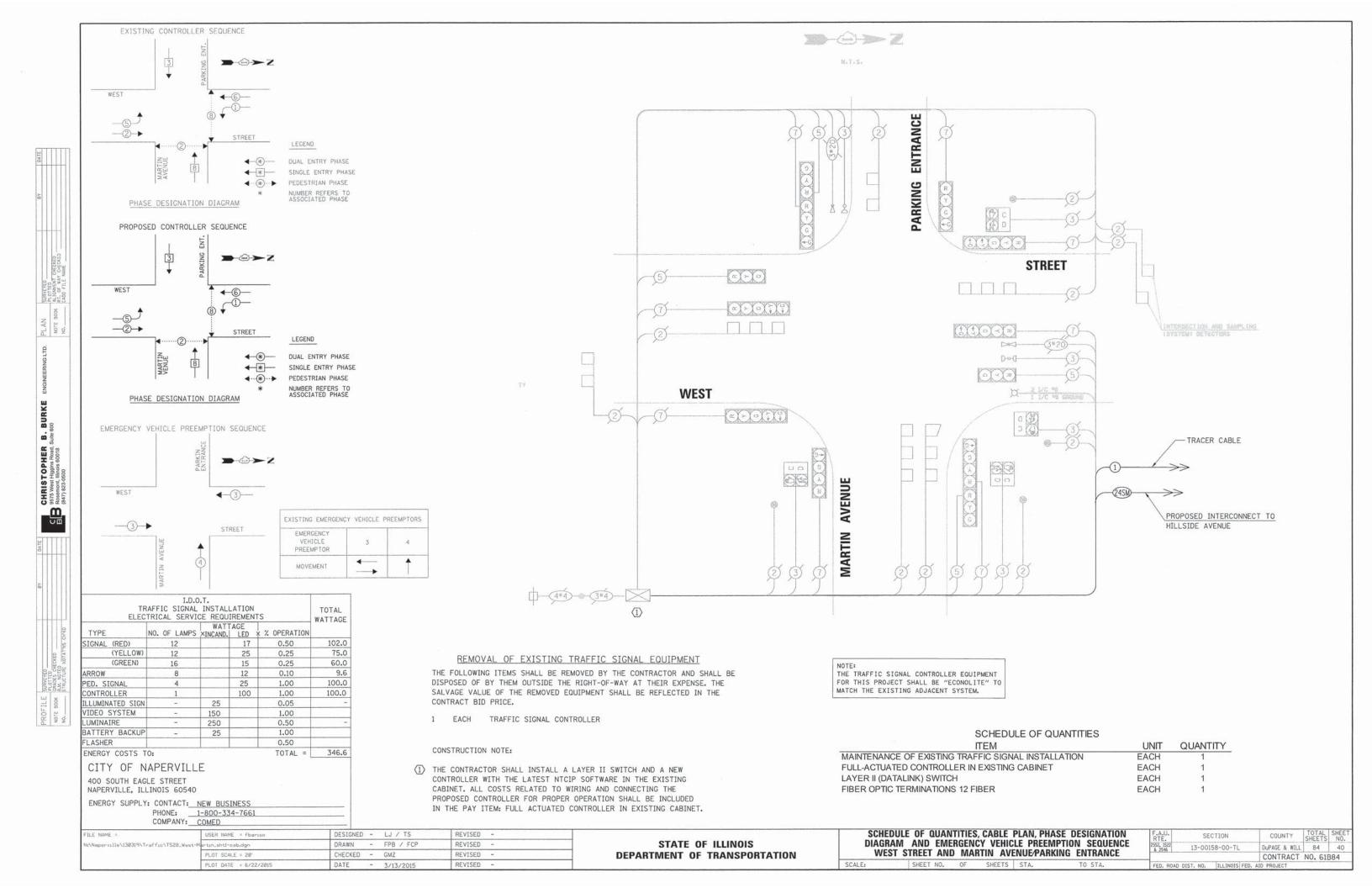


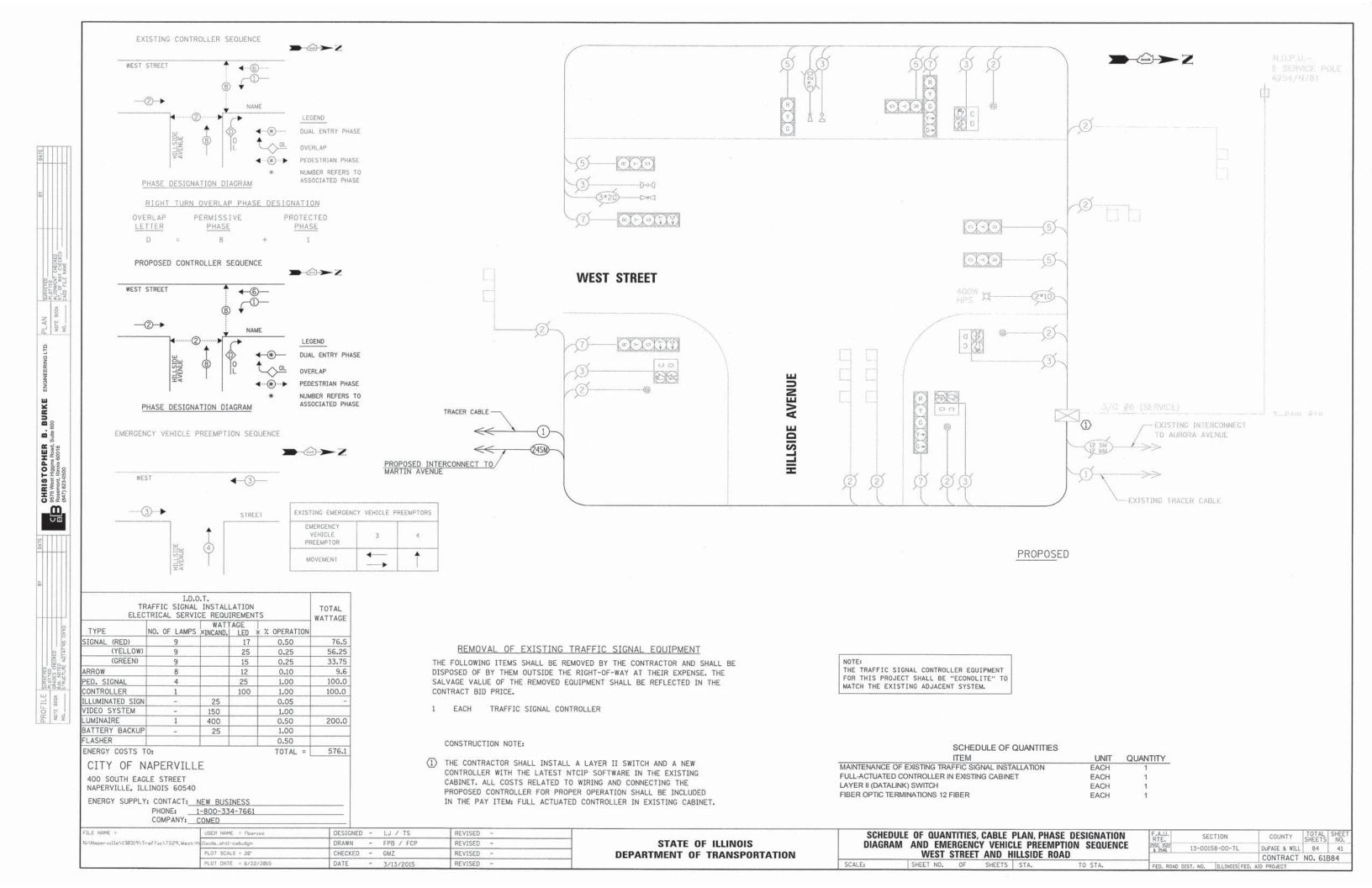


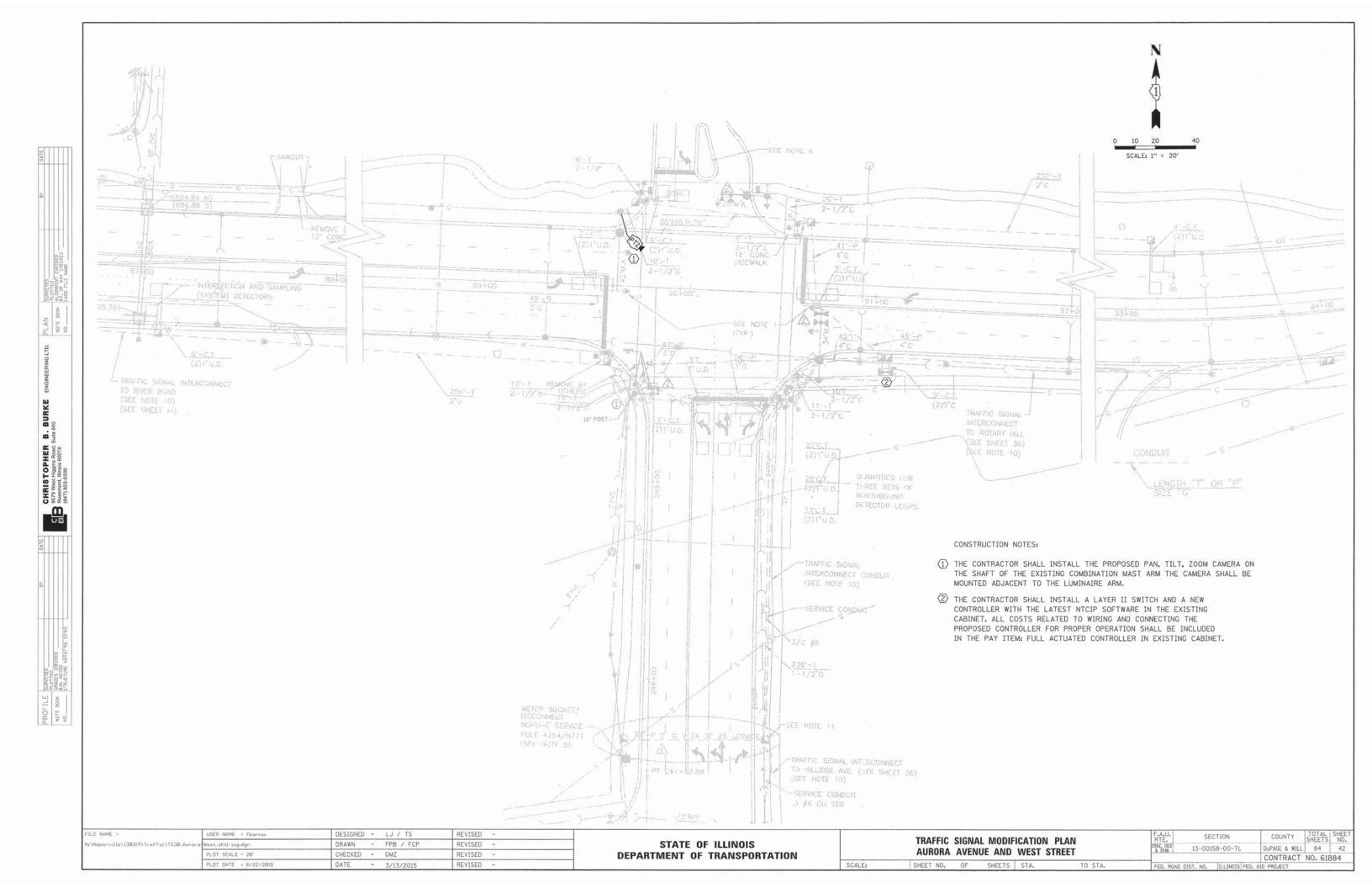


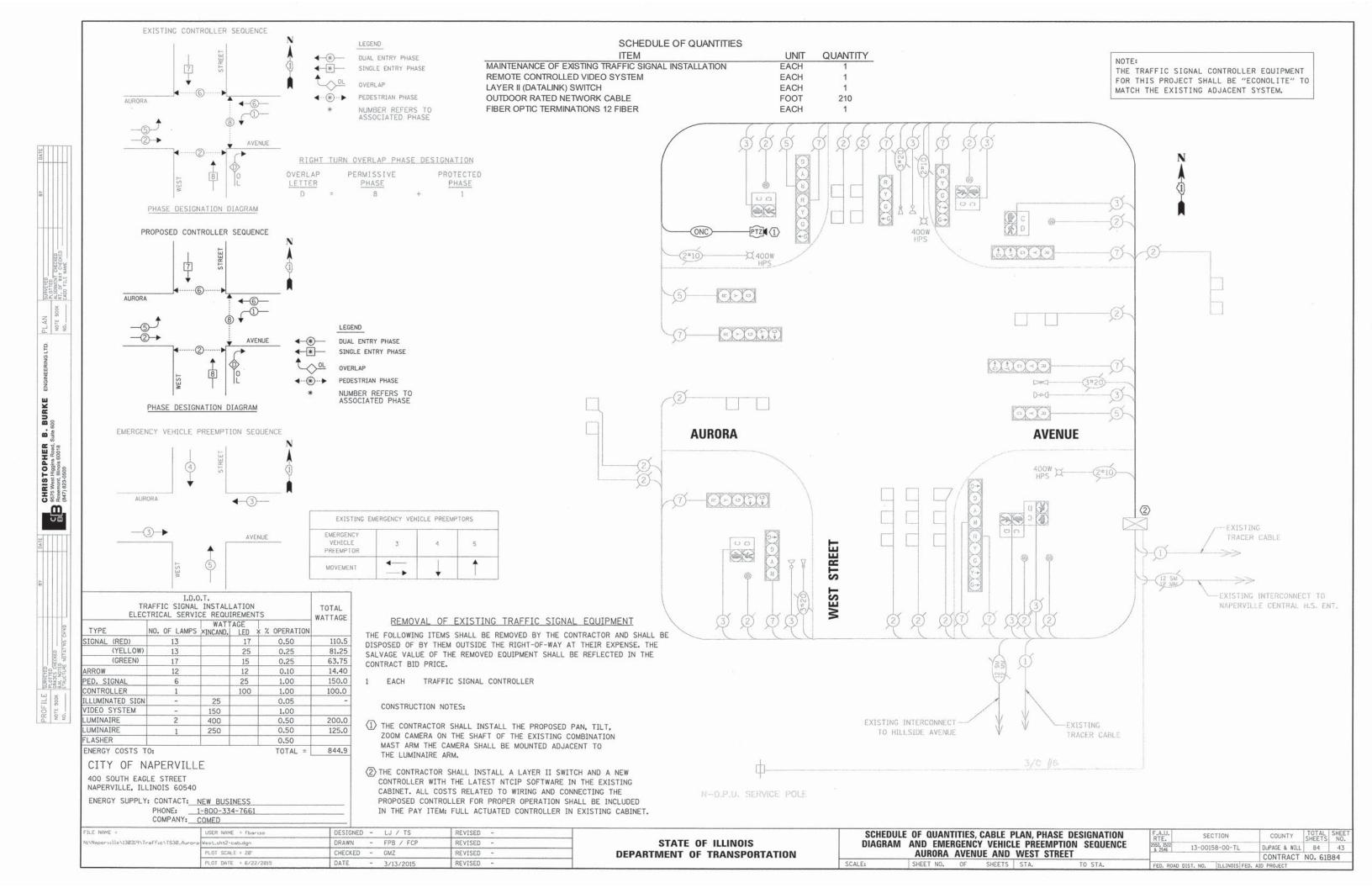


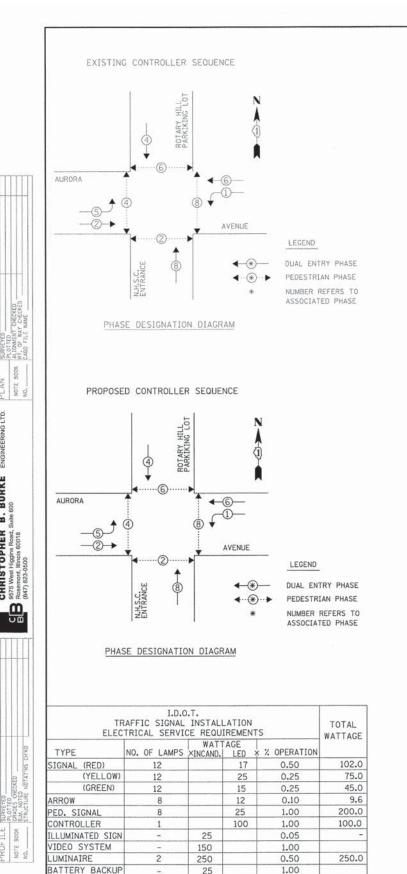












25

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FLASHER

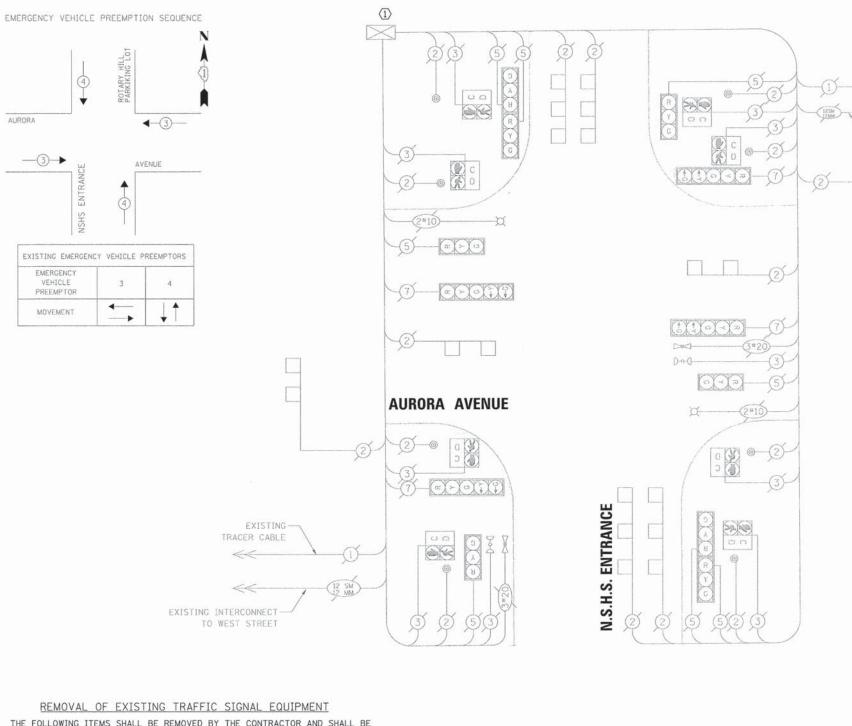
ENERGY COSTS TO:

CITY OF NAPERVILLE

400 SOUTH EAGLE STREET

NAPERVILLE, ILLINOIS 60540

ENERGY SUPPLY: CONTACT: NEW BUSINESS



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH TRAFFIC SIGNAL CONTROLLER

CONSTRUCTION NOTE:

1 THE CONTRACTOR SHALL INSTALL A LAYER II SWITCH AND A NEW CONTROLLER WITH THE LATEST NTCIP SOFTWARE IN THE EXISTING CABINET. ALL COSTS RELATED TO WIRING AND CONNECTING THE PROPOSED CONTROLLER FOR PROPER OPERATION SHALL BE INCLUDED IN THE PAY ITEM: FULL ACTUATED CONTROLLER IN EXISTING CABINET.

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SCHEDI	II F	OF	01	IANIT	ITIES

IIEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FIBER OPTIC TERMINATIONS 12 FIBER	EACH	1

PHONE: 1-800-334-7661 COMPANY: COMED DESIGNED - LJ / TS REVISED . DRAWN - FPB / FCP REVISED Naperville\130319\Traffic\TS31_Aurora-NCHS_shtl-cab.dgn CHECKED - GMZ PLOT SCALE = 20° REVISED -- 3/13/2015

781.6

0.50

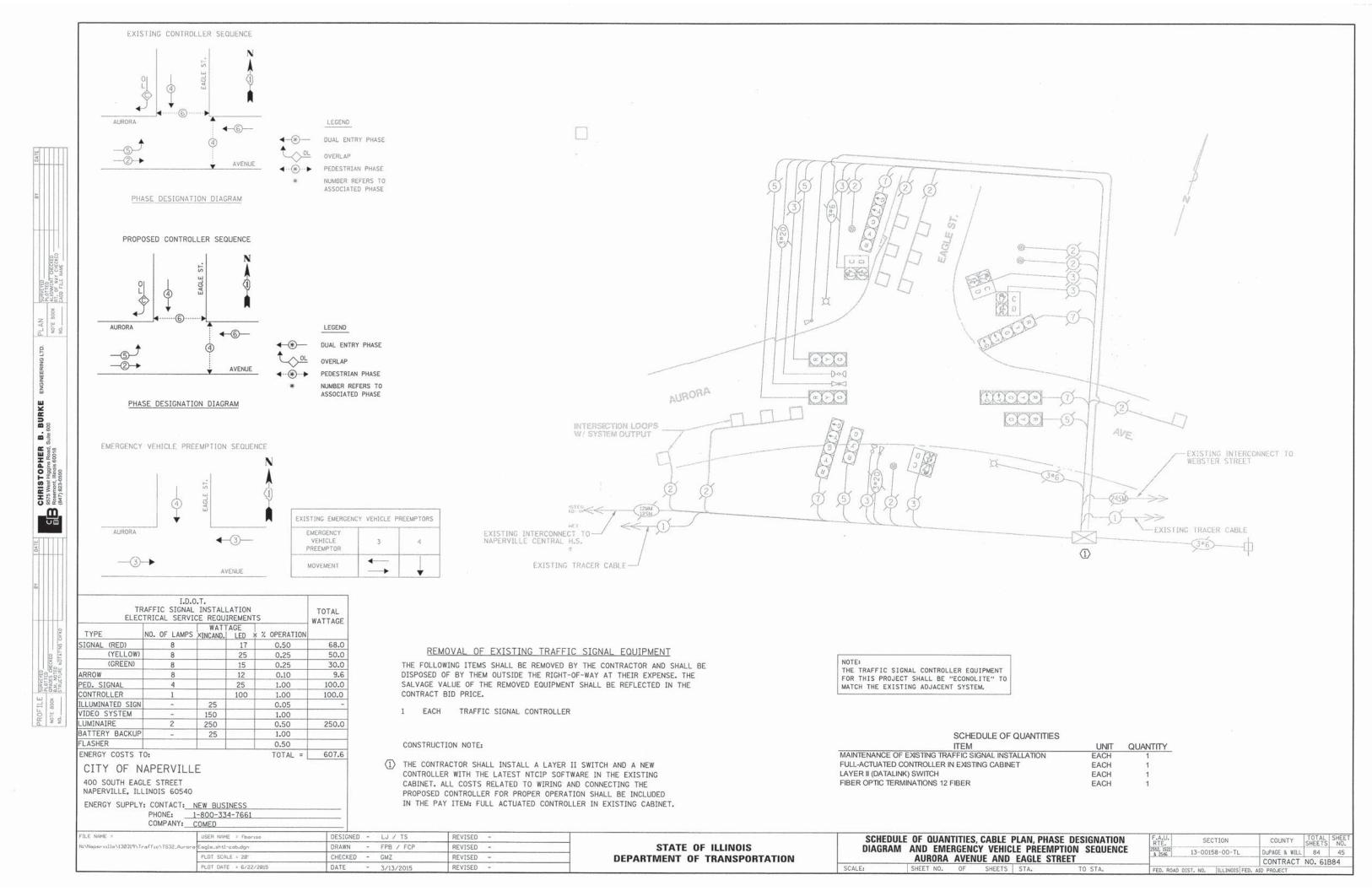
TOTAL

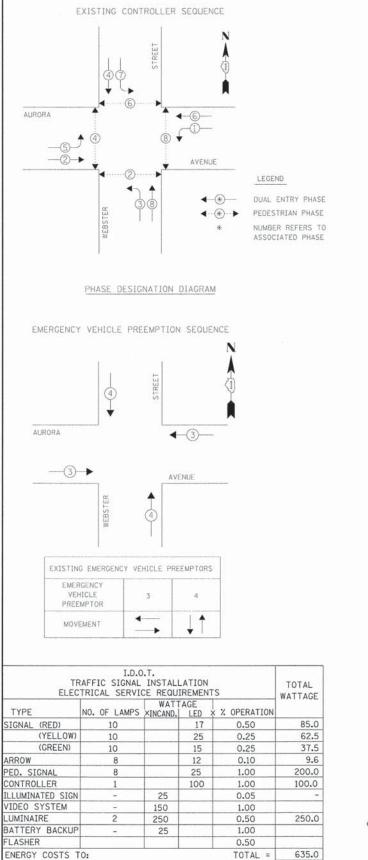
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	I IN I E.	SECTION	COUNTY	TOTAL	SHEET NO.
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	44
AURORA AVENUE AND NCHS PARKING LOT			CONTRACT	NO. 618	384
E. SHEET NO OF SHEETS STA TO STA	CCO DOAD	DIET NO THE THOTE FED	AID BRO ISST		-

-EXISTING TRACER CABLE

EXISTING INTERCONNECT TO EAGLE STREET





Bulte 6

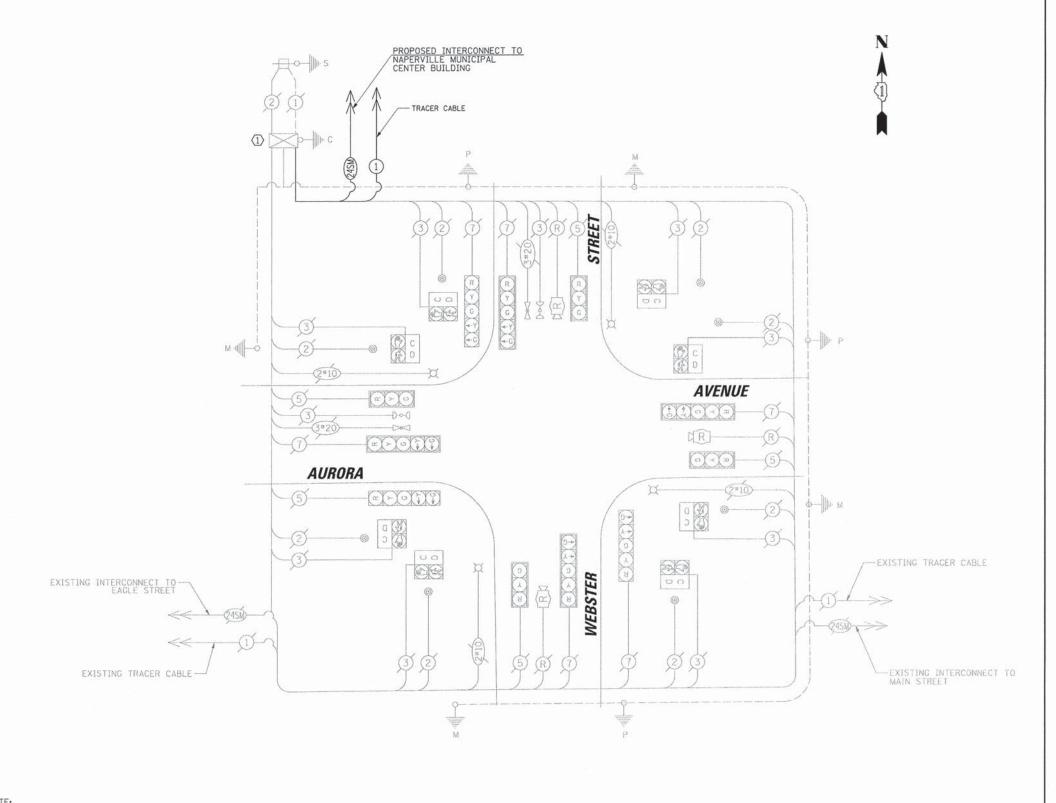
CHRISTOPHER 9575 West Higgins Road, St Rosemont, Illinois 60018 (847) 823-0500

<u>m</u>

CITY OF NAPERVILLE 400 SOUTH EAGLE STREET NAPERVILLE, ILLINOIS 60540

ENERGY SUPPLY: CONTACT: NEW BUSINESS

PHONE: 1-800-334-7661 COMPANY: COMED

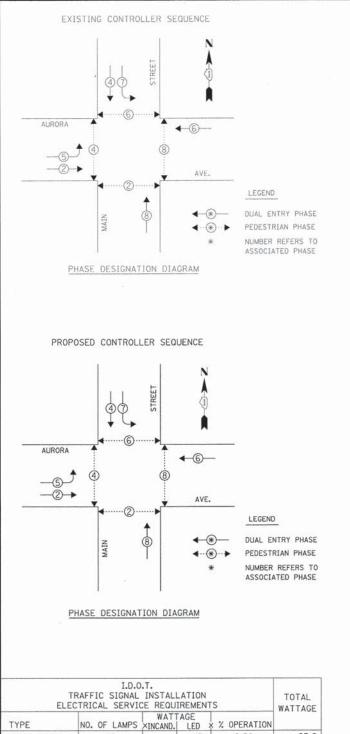


CONSTRUCTION NOTE:

(1) THE CONTRACTOR SHALL INSTALL A LAYER II SWITCH IN THE EXISTING CABINET.

SCHEDULE OF QUANTITIES			
ITEM	UNIT	QUANTITY	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
LAYER II (DATALINK) SWITCH	EACH	1	
FIBER OPTIC TERMINATIONS 12 FIBER	EACH	1	

FILE NAME =	USER NAME = fbariso	DESIGNED - LJ / TS	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.U.	SECTION	COUNTY TOTAL SHEET
Nt\Naperville\130319\Troffic\TS33_Aur	ora Webster_shtl-cab.dgn	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	2552, 1522	13-00158-00-TL	DuPAGE & WILL 84 46
l .	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	AURORA AVENUE AND WEBSTER STREET	a 2.70		CONTRACT NO. 61B84
1	PLOT DATE = 5/22/2015	DATE - 3/13/2015	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST	NO. THE INOIS FED.	AID PROJECT



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL		
TYPE	NO. OF LAMPS	WATT XINCAND.	AGE LED	x % OPERATION	WATTAGE		
SIGNAL (RED)	10		17	0.50	85.0		
(YELLOW)	10		25	0.25	62.5		
(GREEN)	10		15	0.25	37.5		
ARROW	8		12	0.10	9.6		
PED. SIGNAL	8		25	1.00	200.0		
CONTROLLER	1		100	1.00	100.0		
ILLUMINATED SIGN	-	25		0.05	-		
VIDEO SYSTEM		150		1.00			
LUMINAIRE	2	250		0.50	250.0		
BATTERY BACKUP	-	25		1.00			
FLASHER				0.50			
ENERGY COSTS T	0:			TOTAL =	635.0		

PLOT SCALE = 20'

CITY OF NAPERVILLE

400 SOUTH EAGLE STREET NAPERVILLE, ILLINOIS 60540

FILE NAME

m f

E B

ENERGY SUPPLY: CONTACT: NEW BUSINESS PHONE: 1-800-334-7661 COMPANY: COMED

DESIGNED - LJ / TS REVISED -DRAWN - FPB / FCP REVISED CHECKED - GMZ REVISED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE AURORA AVENUE AND MAIN STREET

SCHEDULE OF QUANTITIES

ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

FULL-ACTUATED CONTROLLER IN EXISTING CABINET

SECTION COUNTY 13-00158-00-TL DUPAGE & WILL 84 47 CONTRACT NO. 61B84 SHEET NO. SHEETS STA.

UNIT

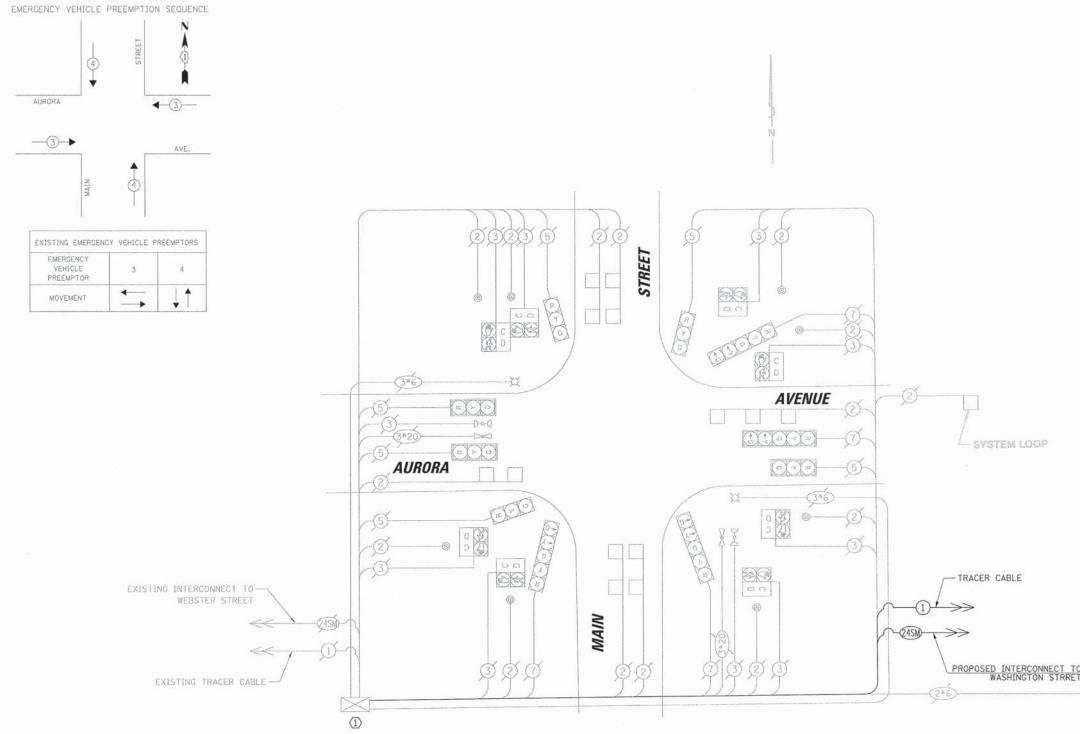
EACH

EACH

EACH

EACH

QUANTITY



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH TRAFFIC SIGNAL CONTROLLER

CONSTRUCTION NOTE:

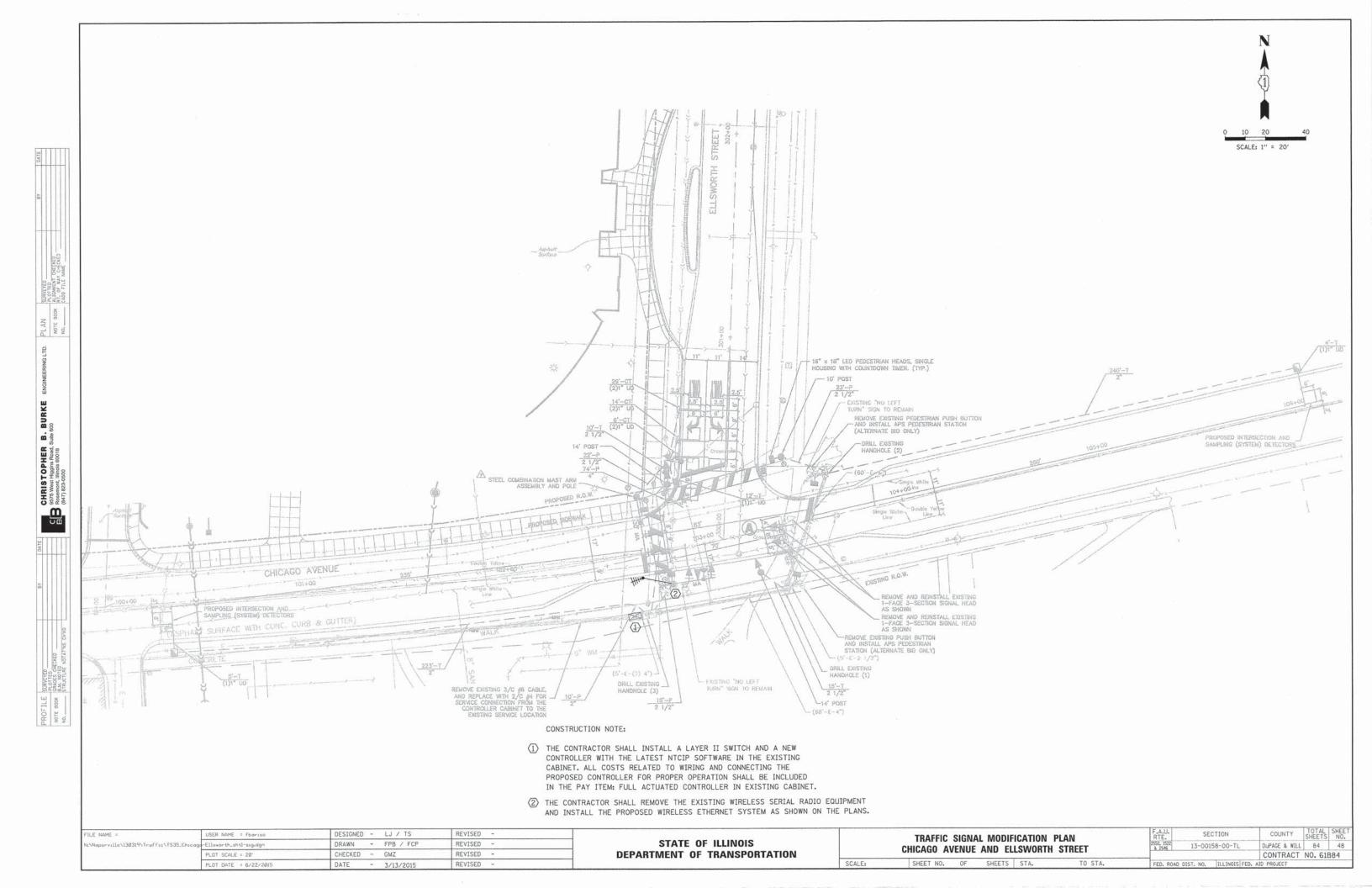
1 THE CONTRACTOR SHALL INSTALL A LAYER II SWITCH AND A NEW CONTROLLER WITH THE LATEST NTCIP SOFTWARE IN THE EXISTING CABINET. ALL COSTS RELATED TO WIRING AND CONNECTING THE PROPOSED CONTROLLER FOR PROPER OPERATION SHALL BE INCLUDED IN THE PAY ITEM: FULL ACTUATED CONTROLLER IN EXISTING CABINET.

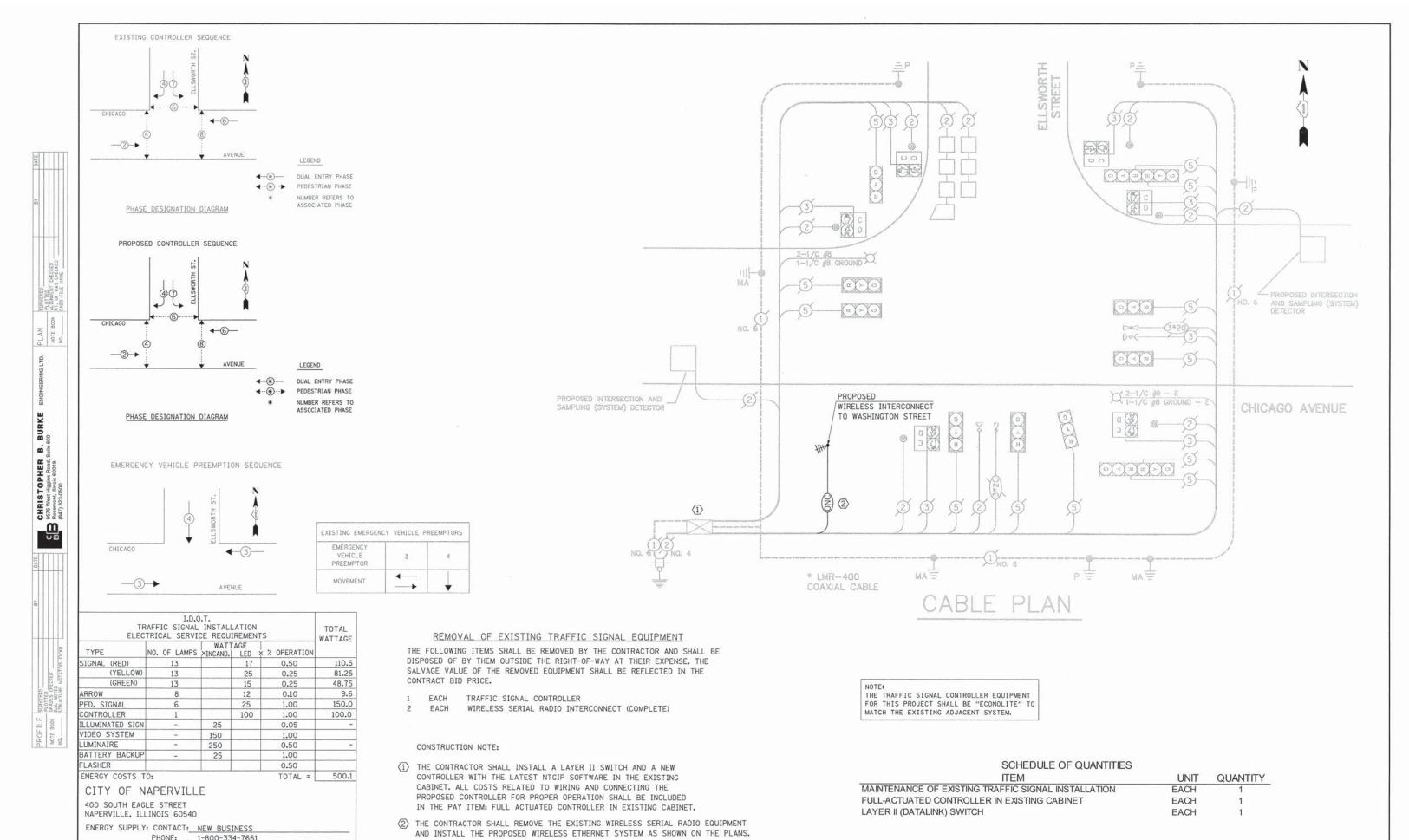
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LAYER II (DATALINK) SWITCH

FIBER OPTIC TERMINATIONS 12 FIBER





1-800-334-7661

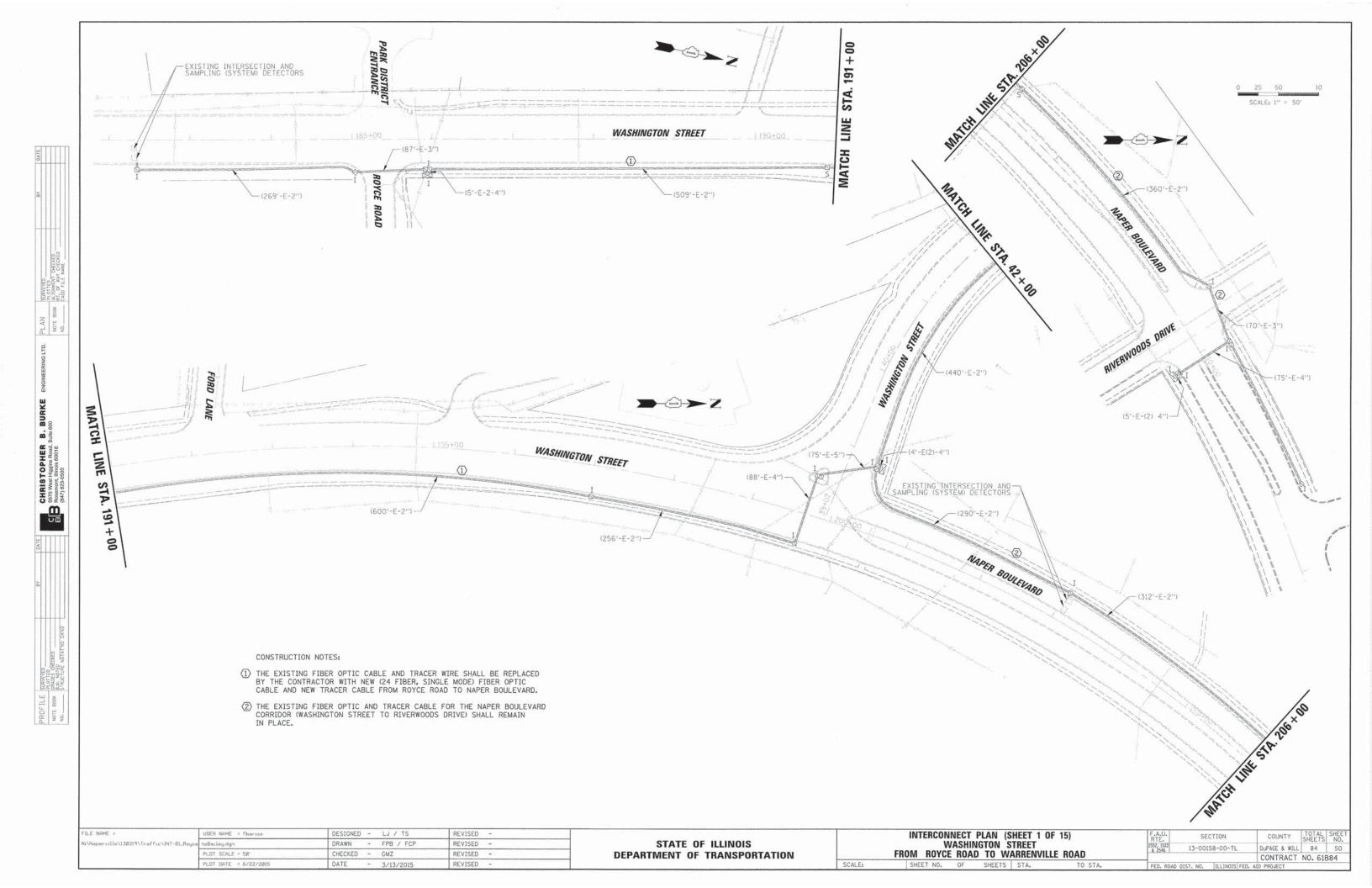
COMPANY: COMED

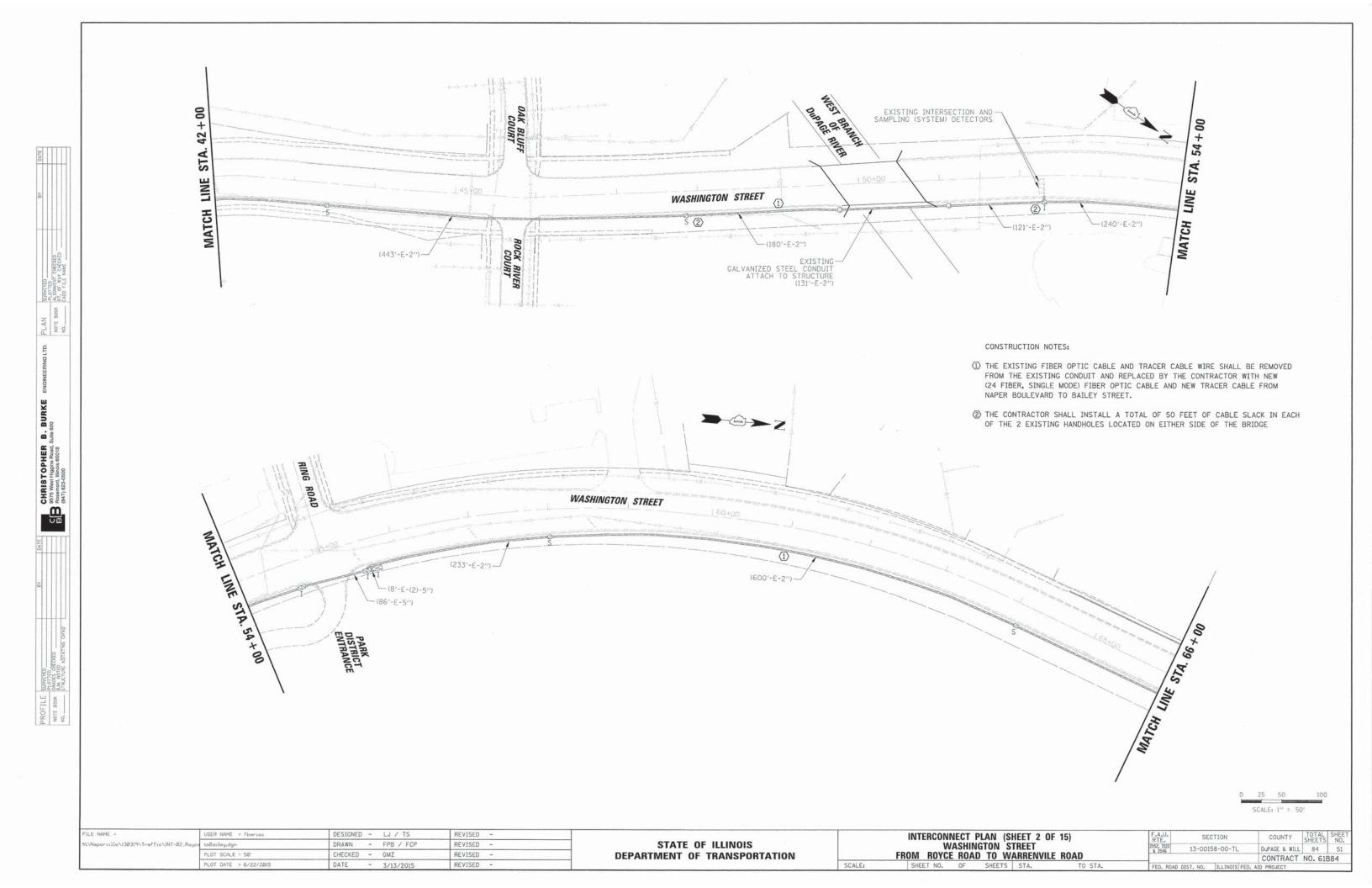
DESIGNED - LJ / TS REVISED -DRAWN - FPB / FCP REVISED -Ellsworth_sht2-cab.dor PLOT SCALE = 20 CHECKED - GMZ REVISED REVISED 3/13/2015

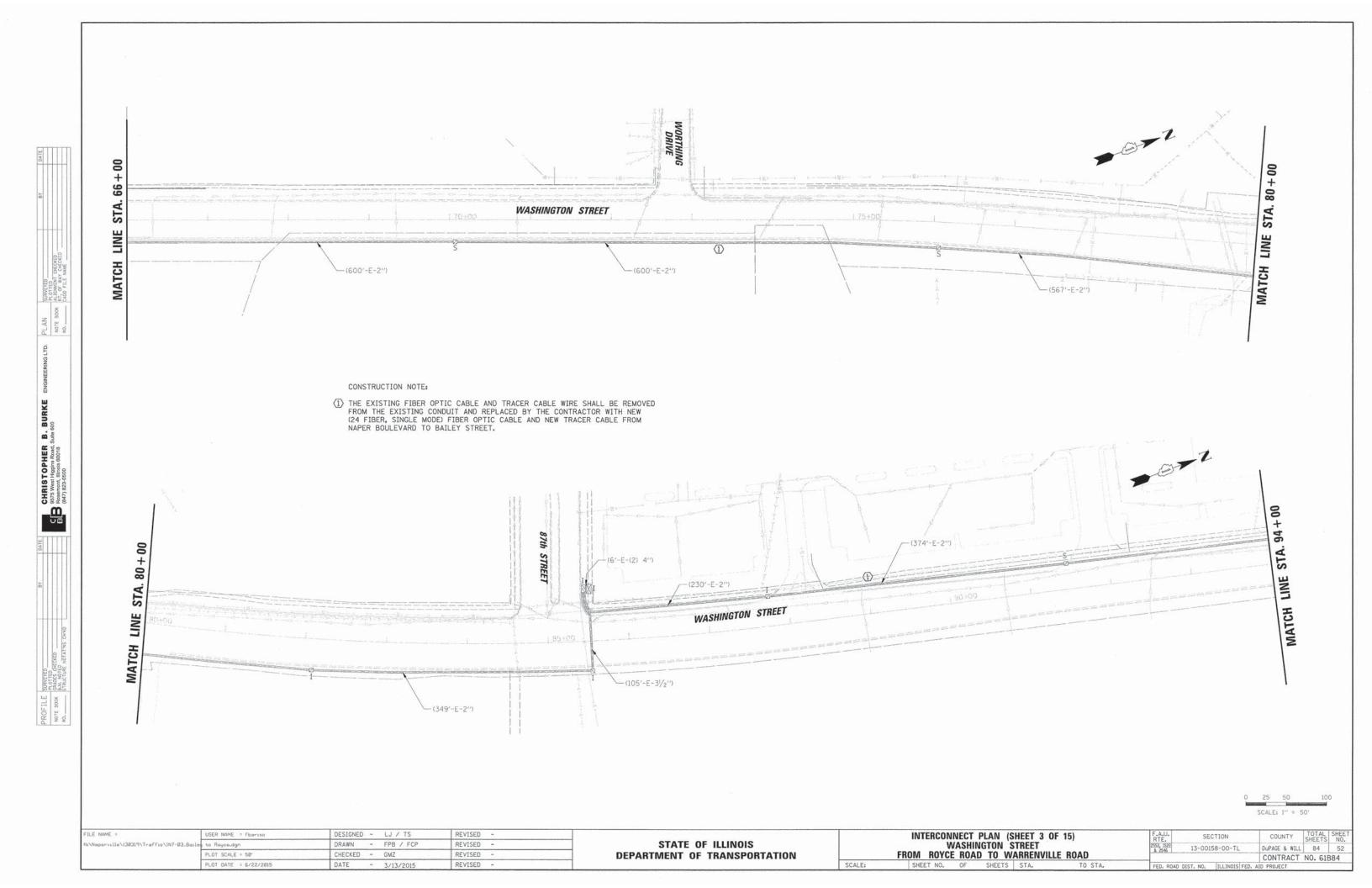
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

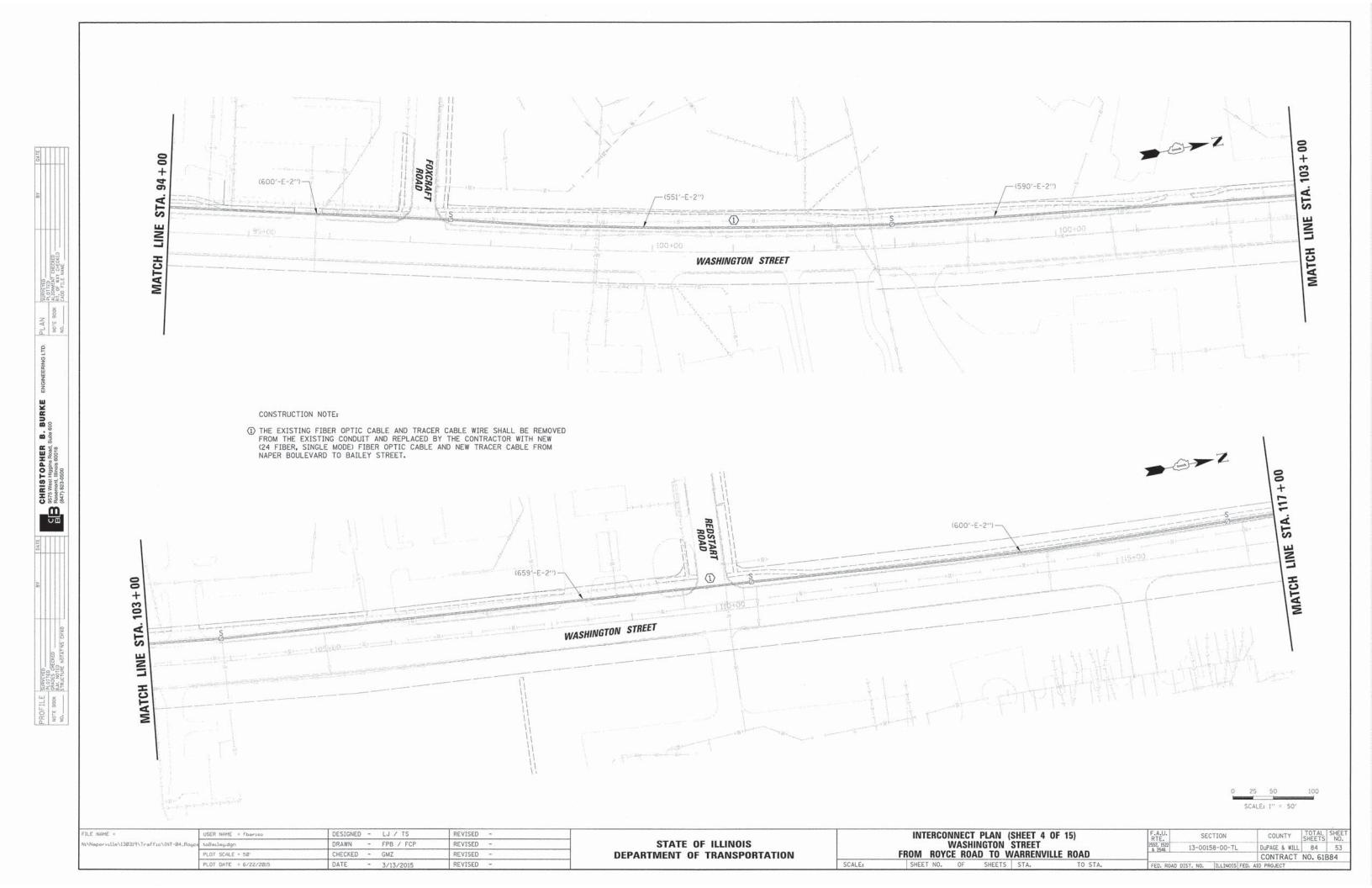
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHICAGO AVENUE AND ELLSWORTH STREET SHEET NO. OF SHEETS STA.

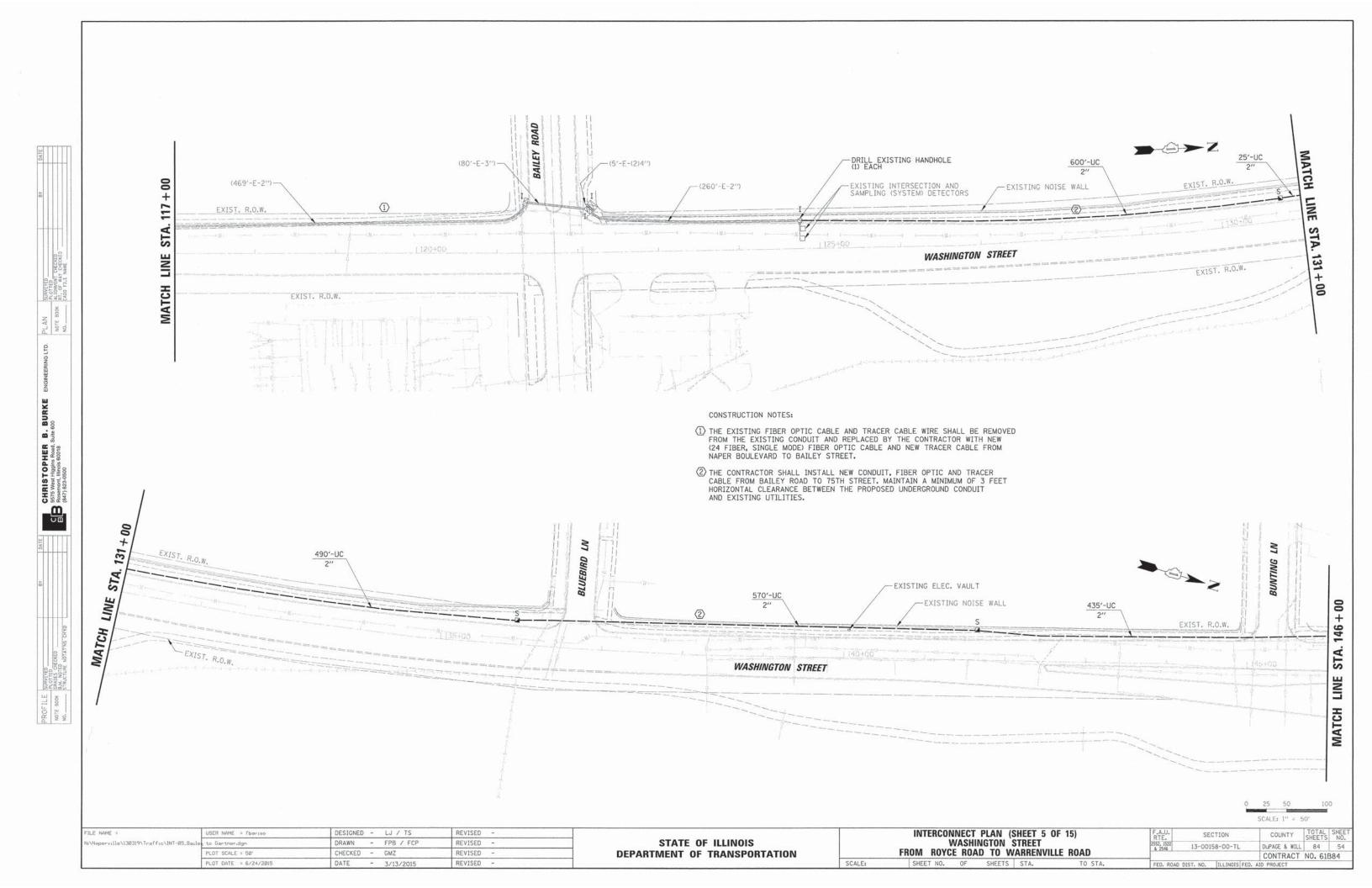
DuPAGE & WILL 84 CONTRACT NO. 61B84

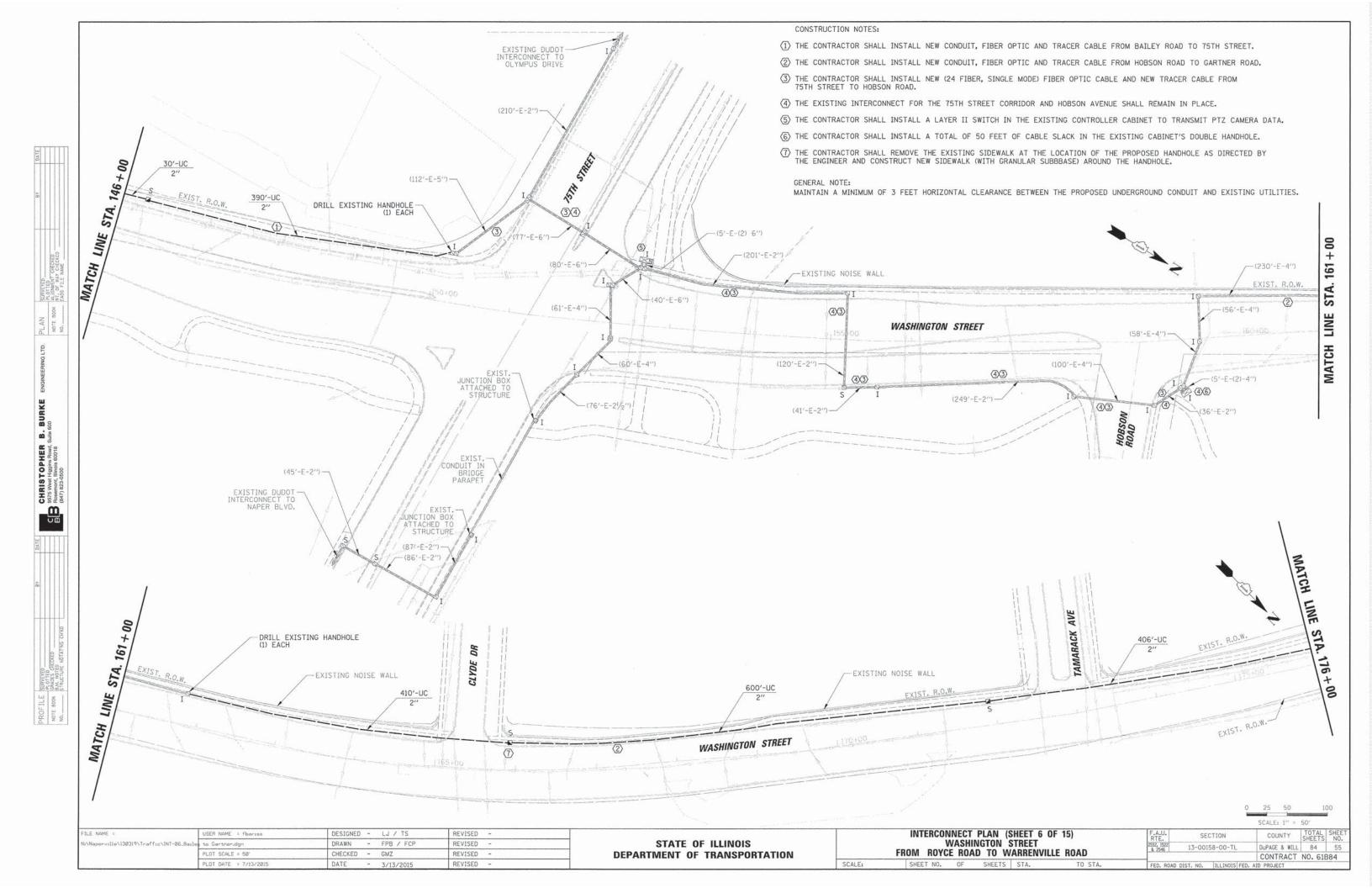


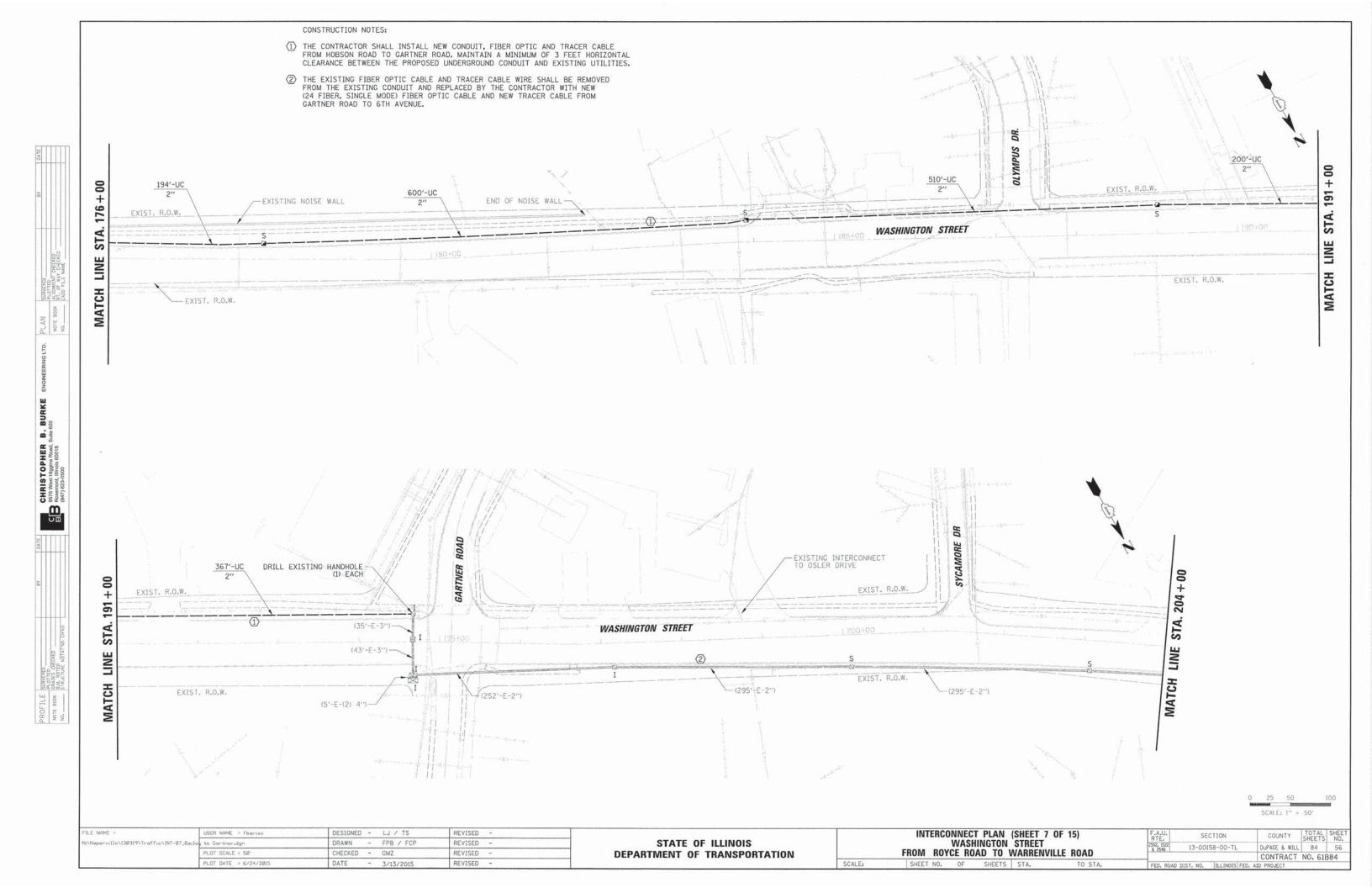


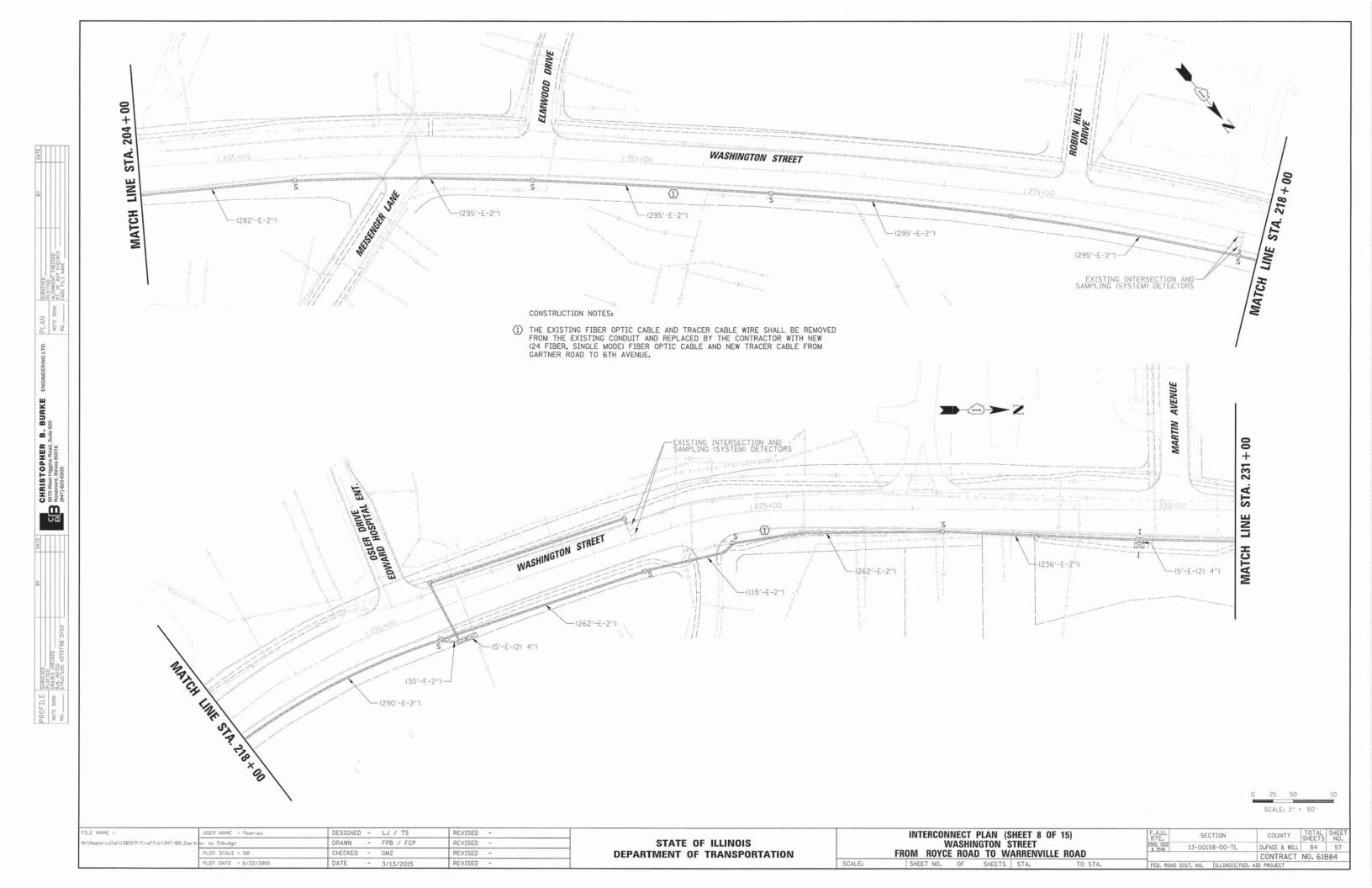


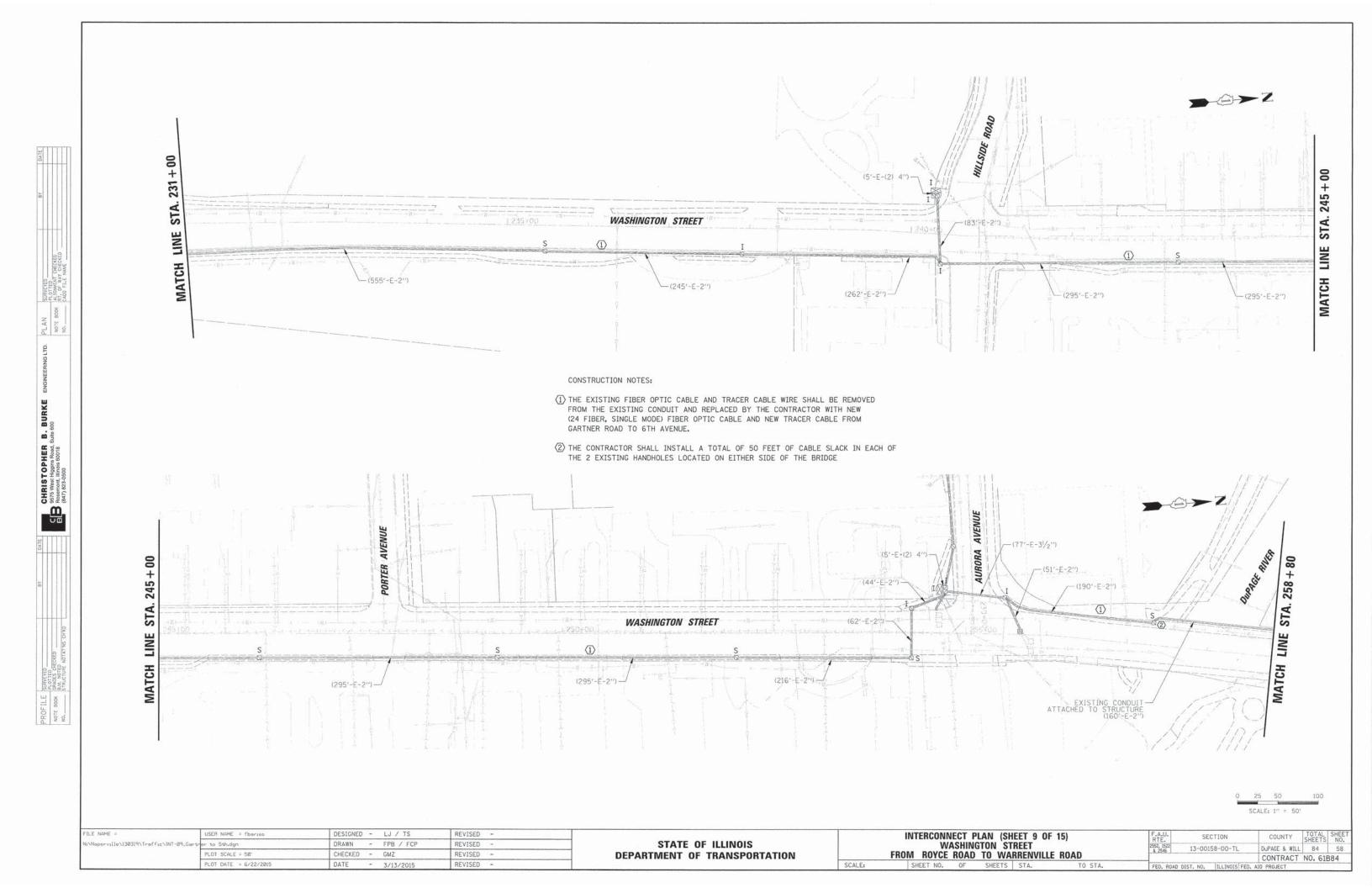


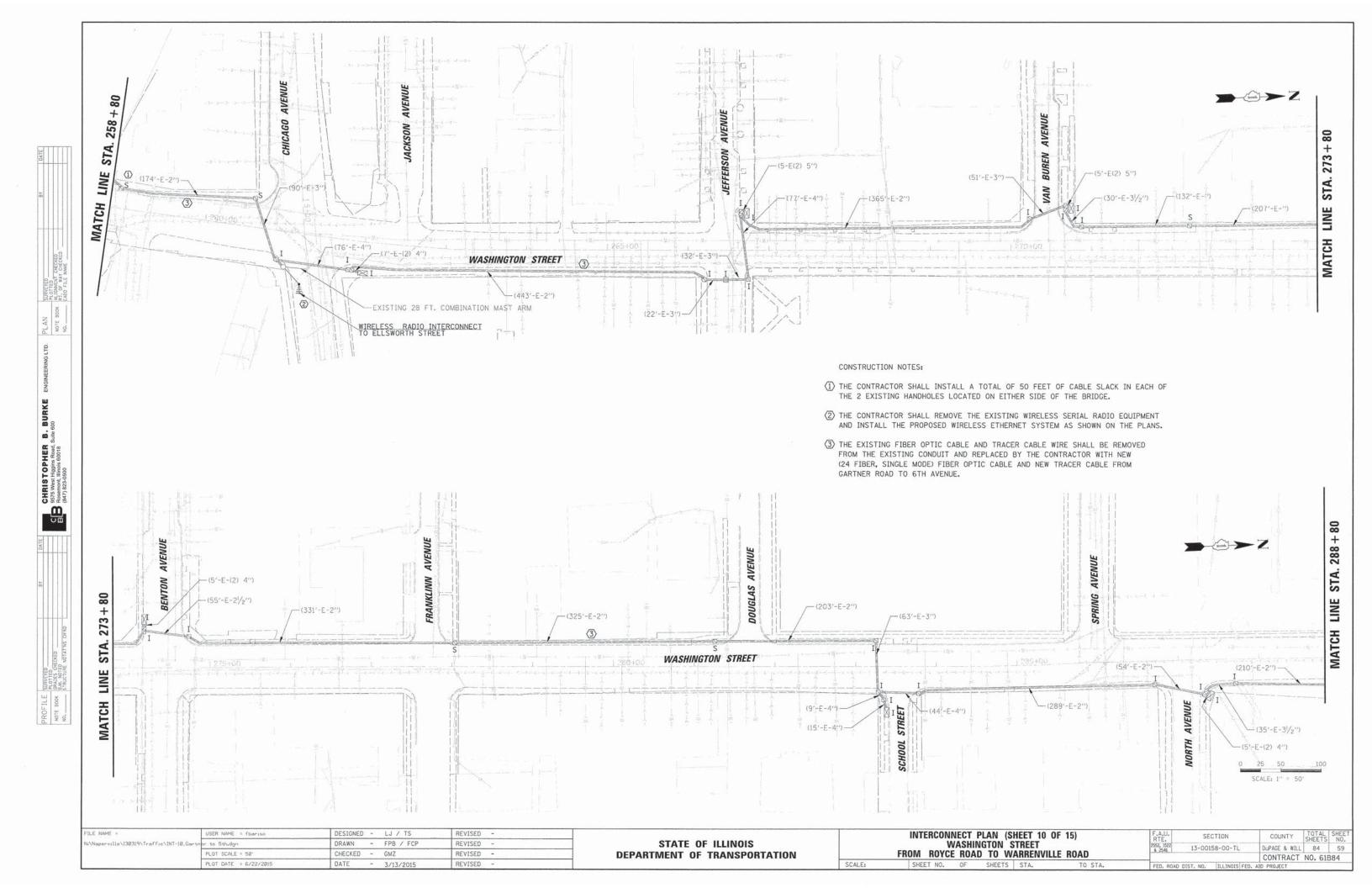


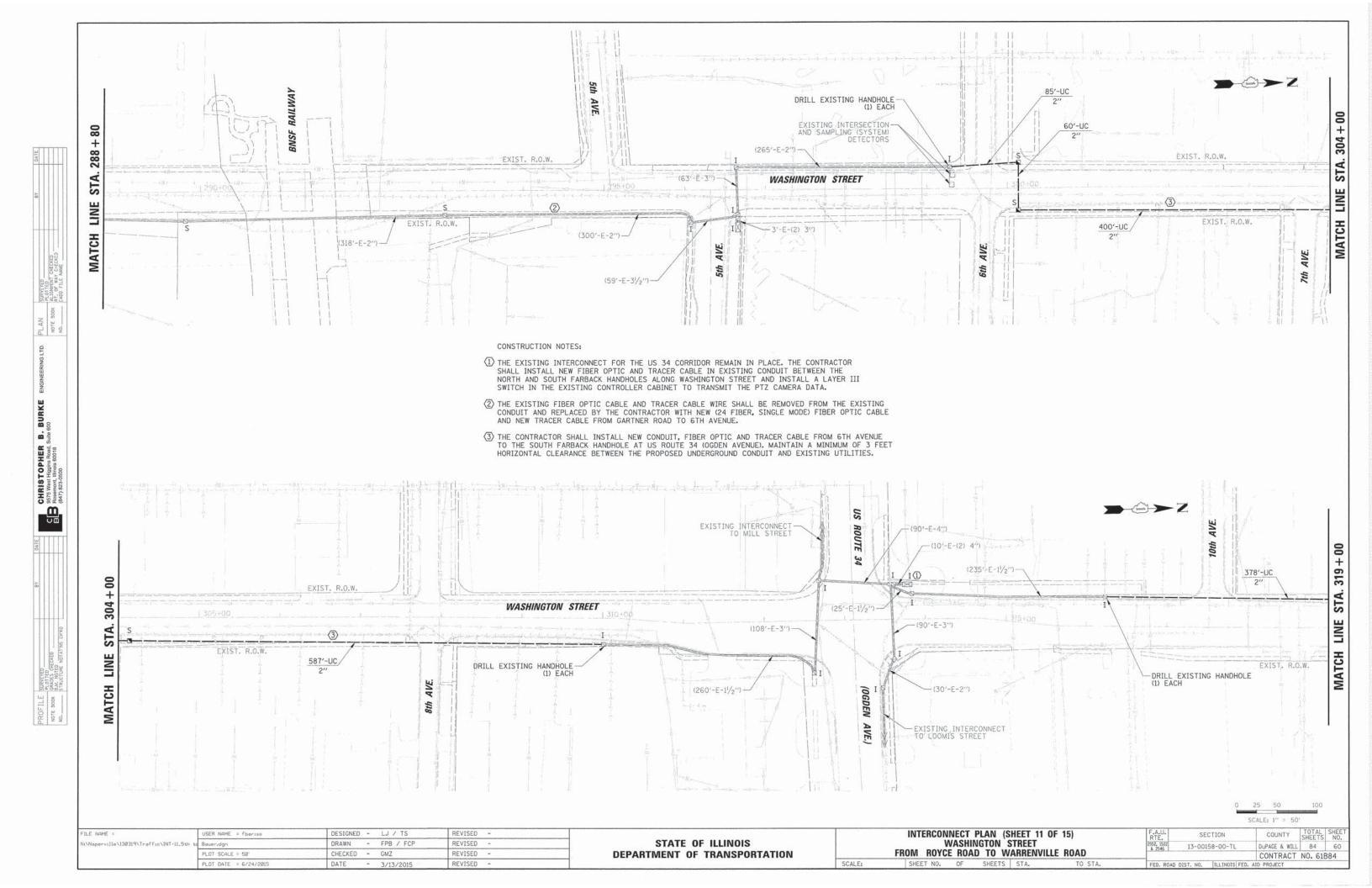


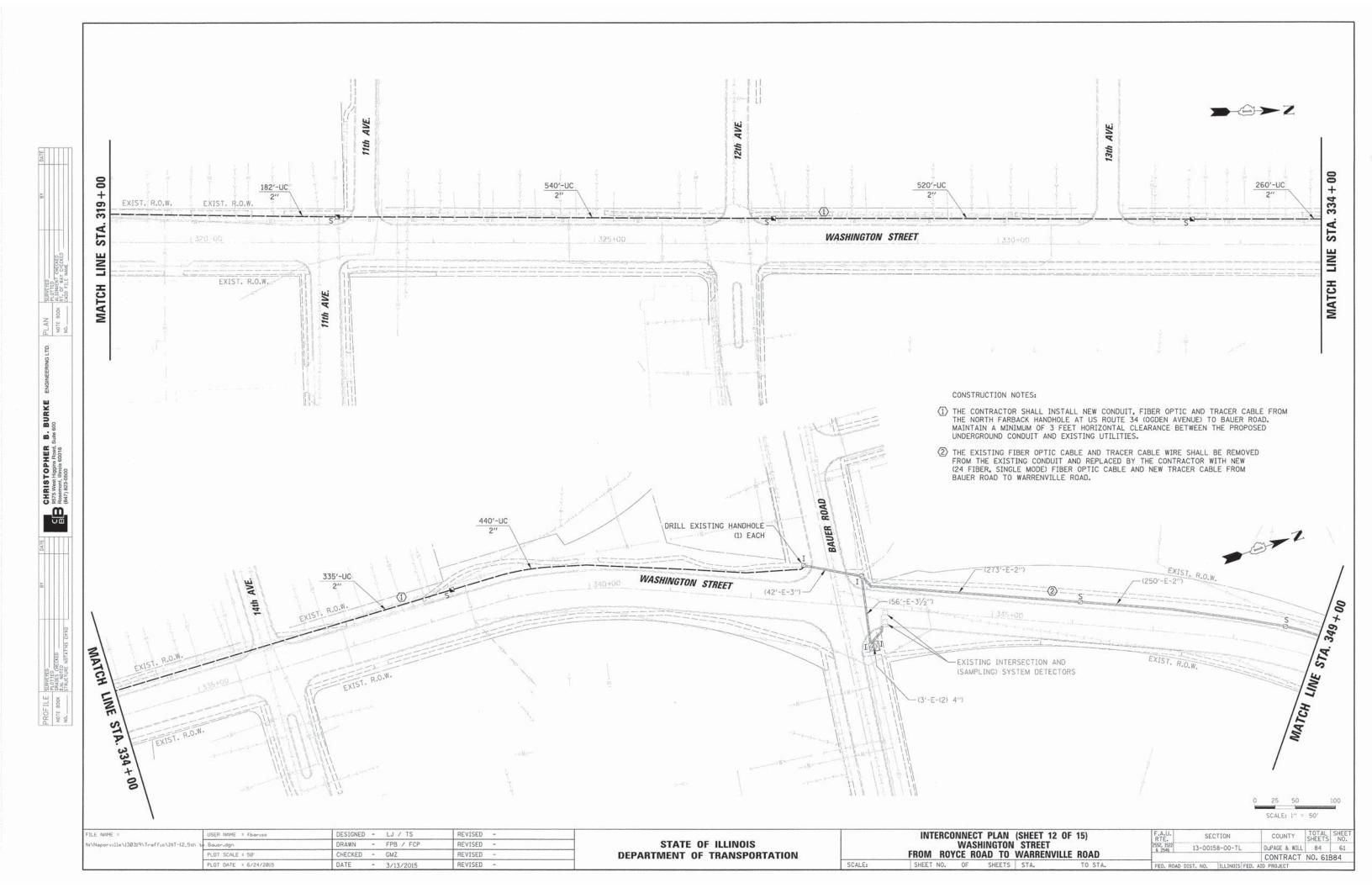


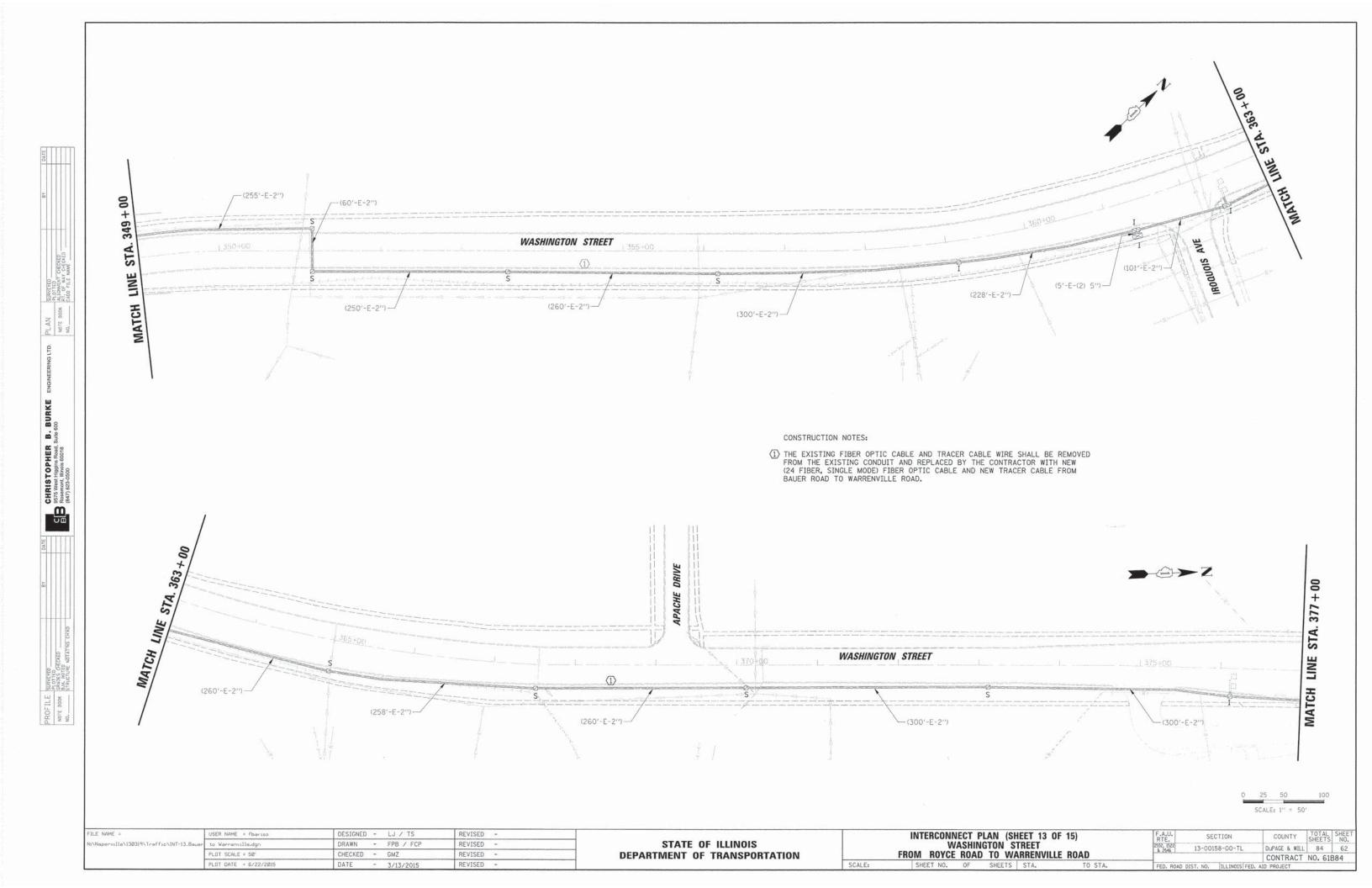


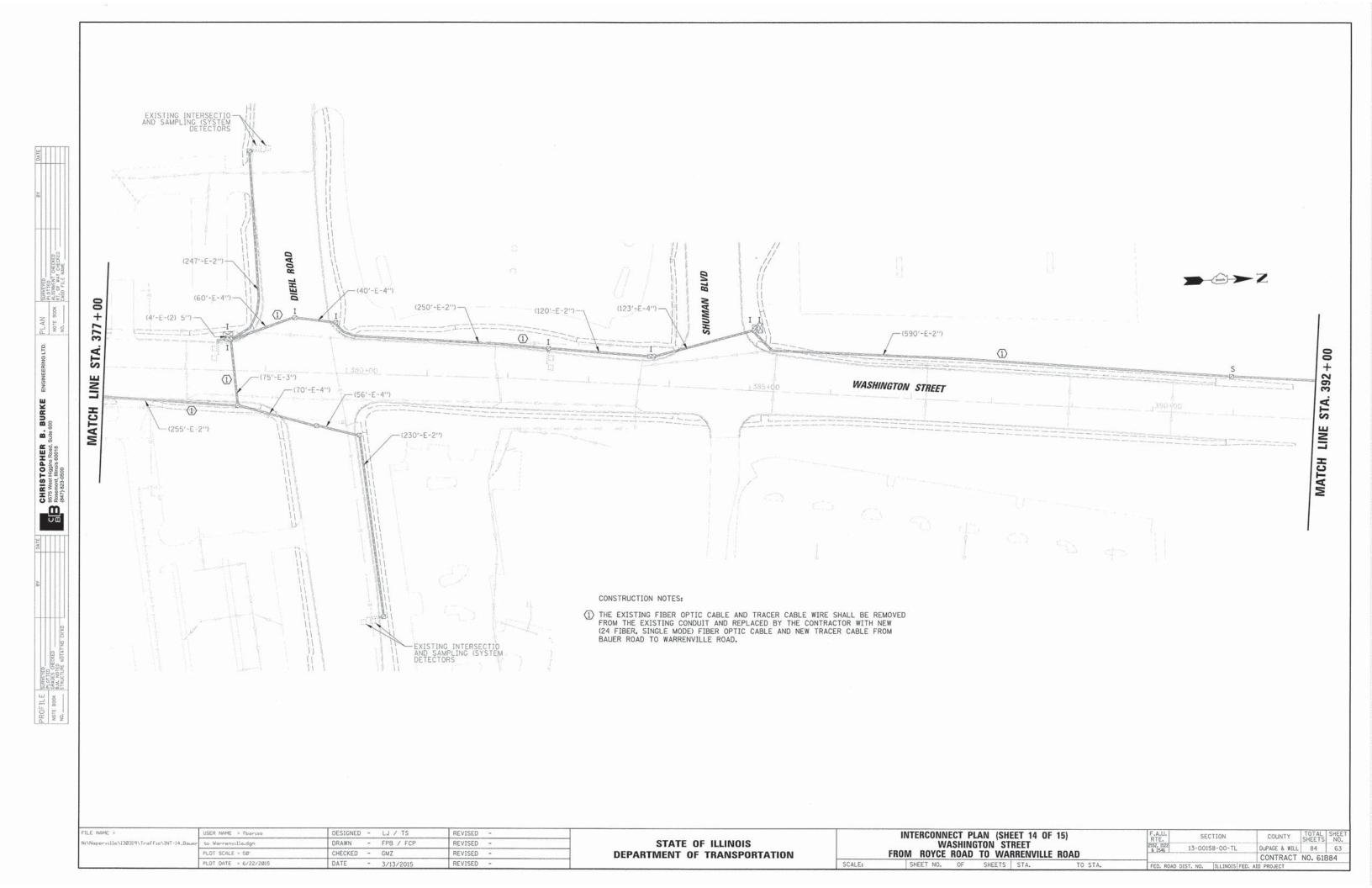


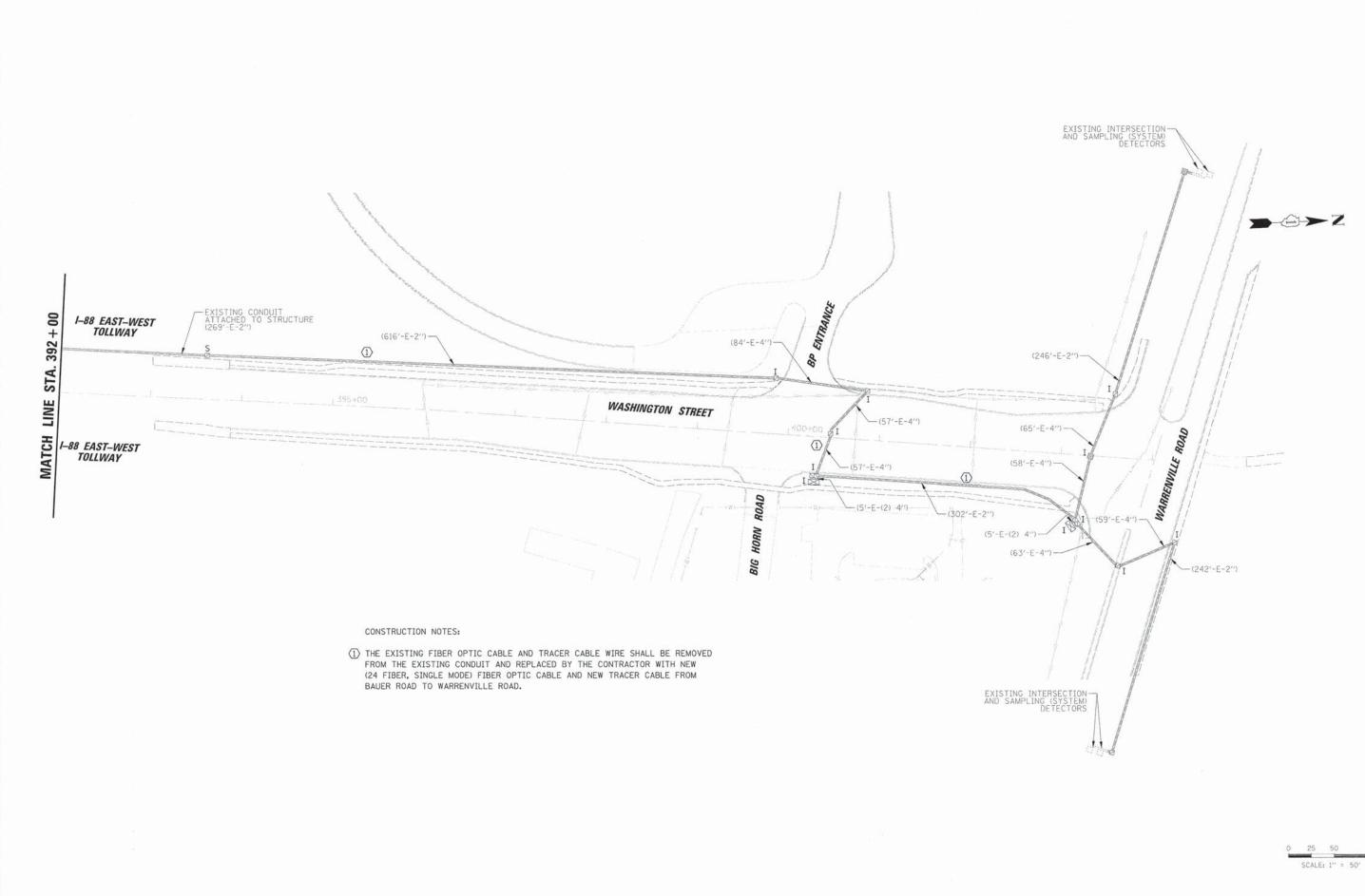






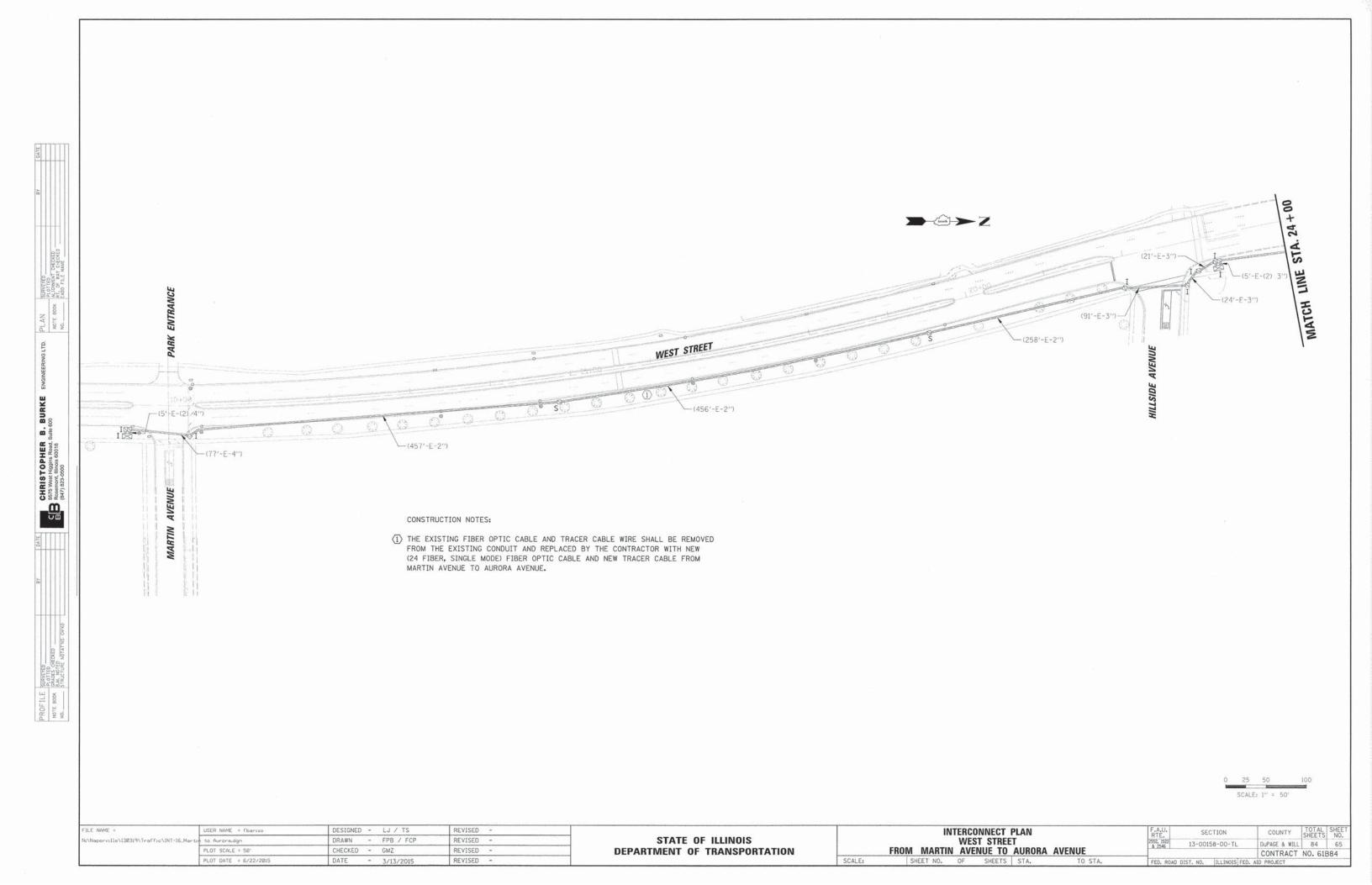






CHRISTOPHER B. BURKE E SPT5 West Hugins Road, Sulte 600 (847) 823-0500

> INTERCONNECT PLAN (SHEET 15 OF 15) WASHINGTON STREET COUNTY TOTAL SHEET NO.
>
> DUPAGE & WILL 84 64 FILE NAME = DESIGNED - LJ / TS REVISED -SECTION STATE OF ILLINOIS DRAWN - FPB / FCP REVISED -FROM ROYCE ROAD TO WARRENVILLE ROAD PLOT SCALE = 50' CHECKED - GMZ REVISED -DEPARTMENT OF TRANSPORTATION CONTRACT NO. 61B84 SHEET NO. OF SHEETS STA. PLOT DATE = 6/22/2015 REVISED -



CHRISTOPHER B. BURKE ENGINEERING LTD.

C 9575 West Higgins Road, Suite 600

E Rosemont, Illinois 60018 ...

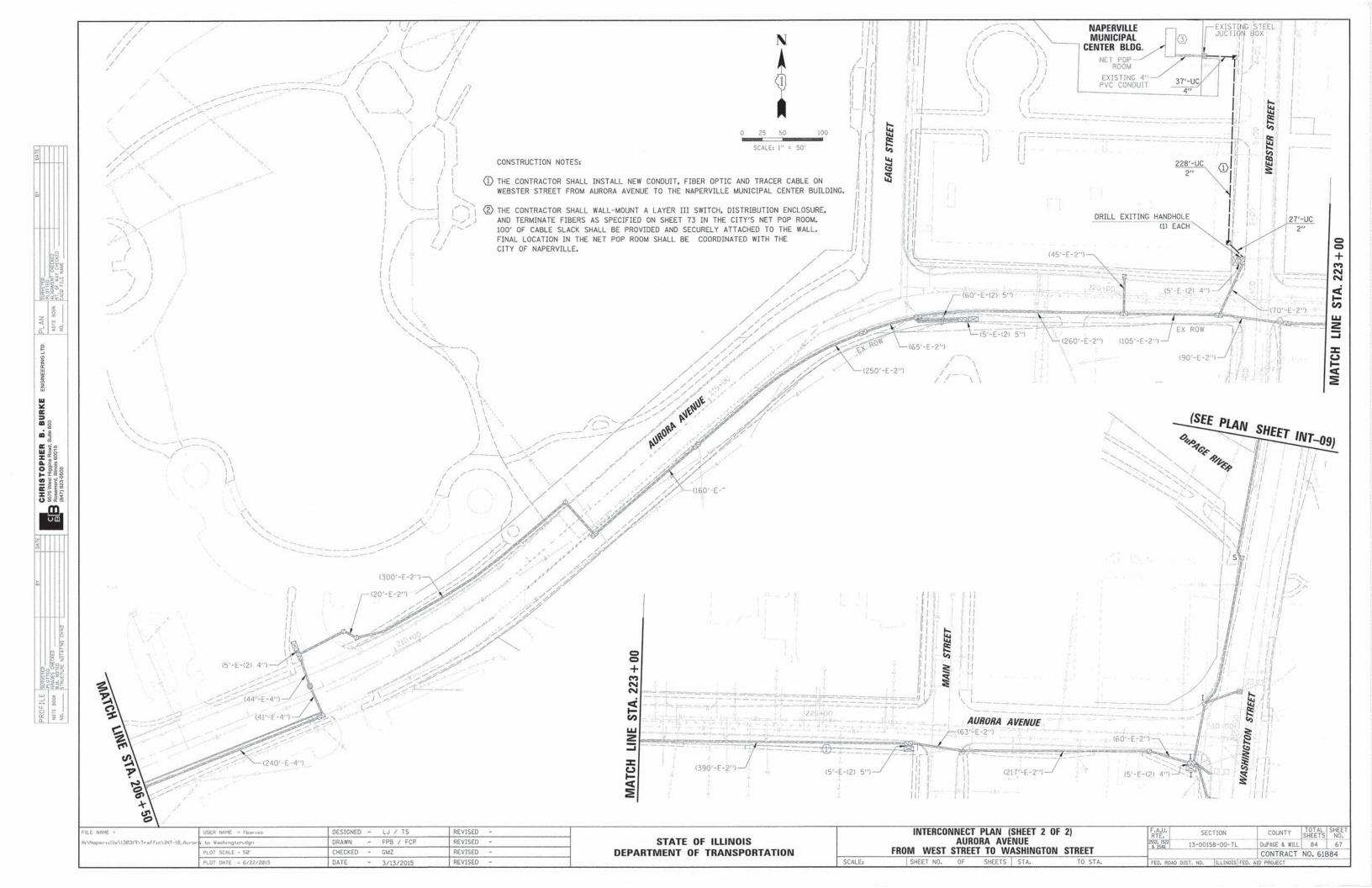
Note 5006

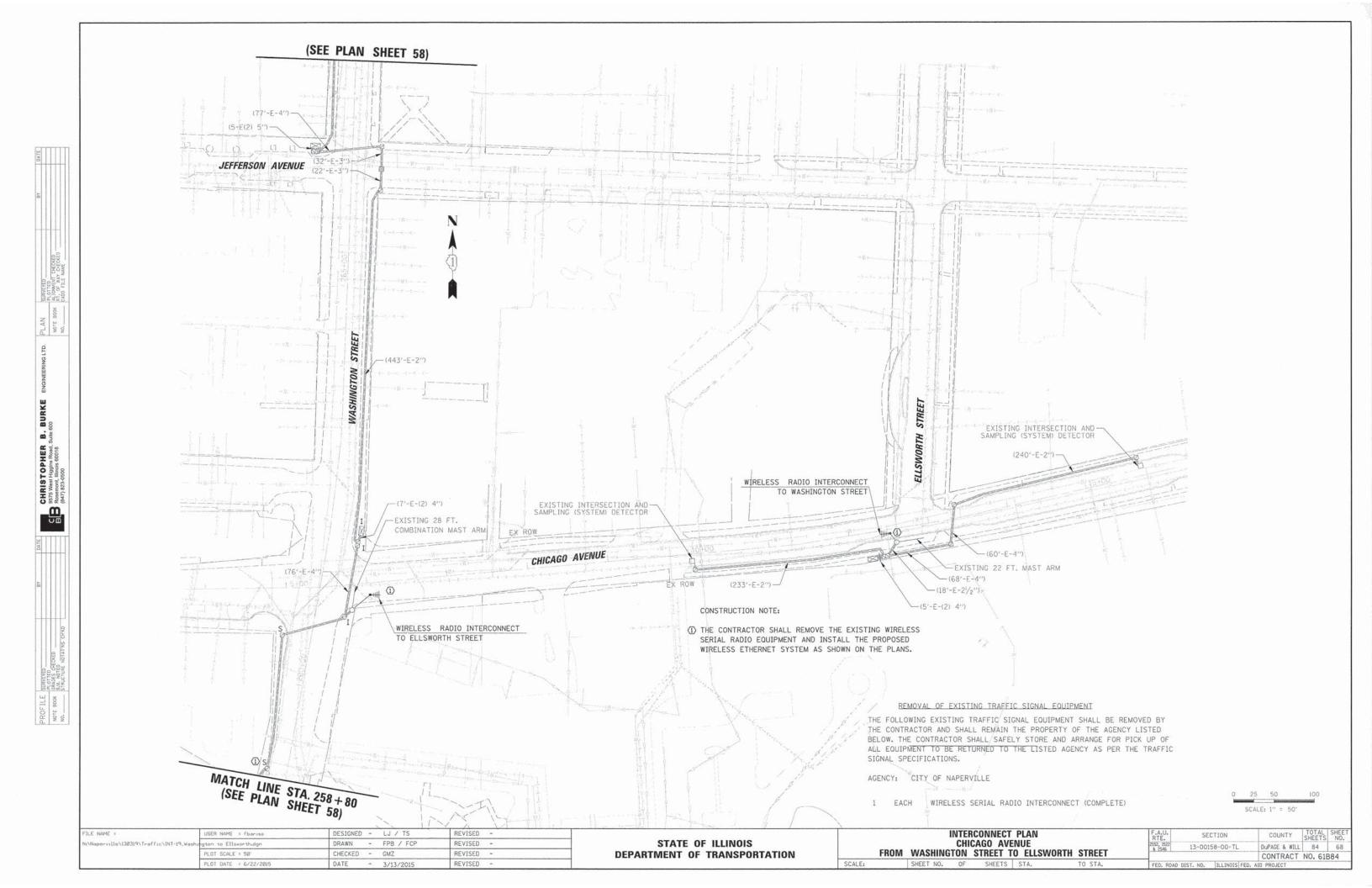
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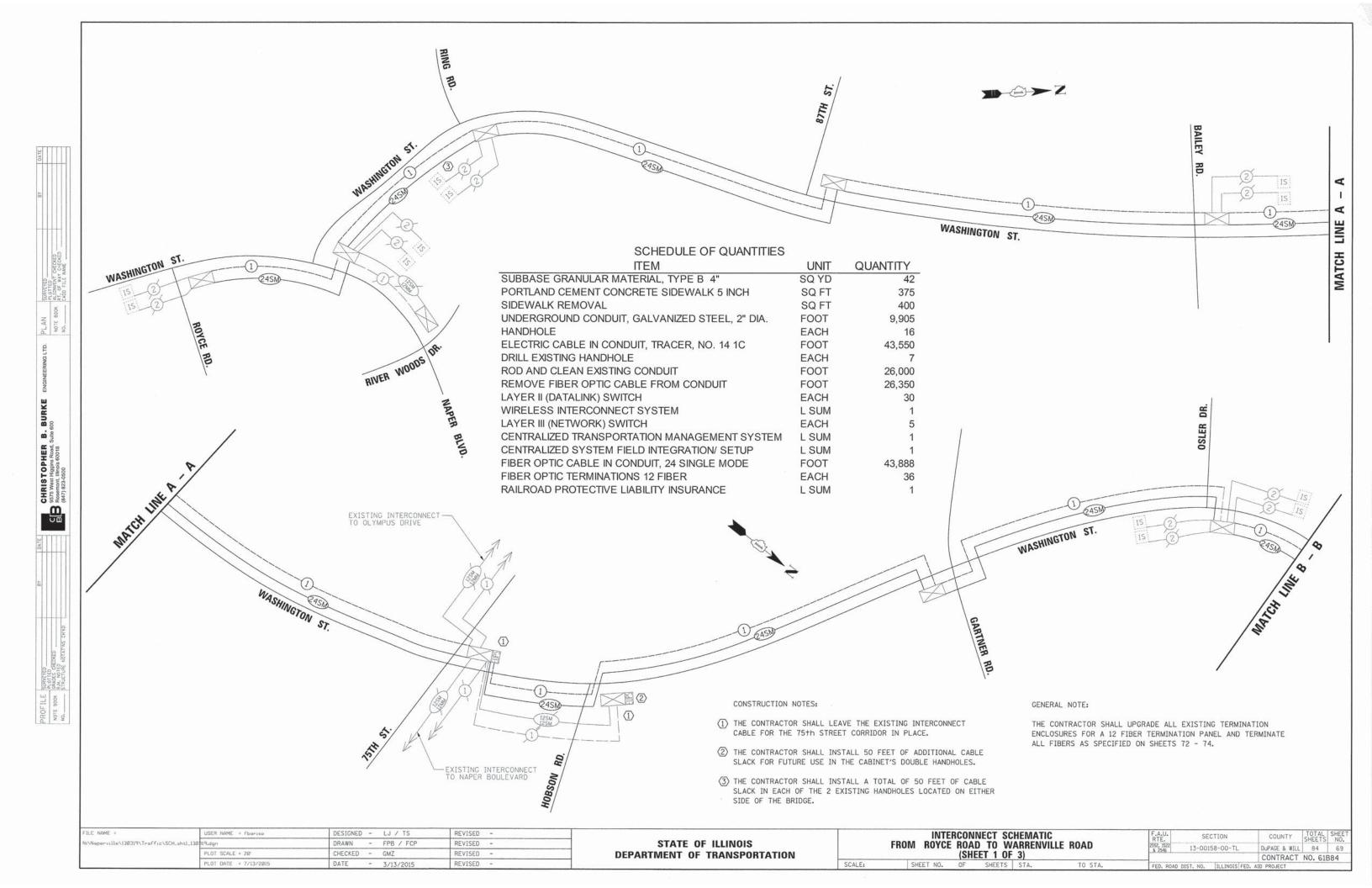
WEST STREET MATCH LINE STA. 24+00 (255'-E-2")— (275'-E-2")— AURORA AVENUE (294'-E-4")—/ (260'-E-4") ---MATCH LINE STA. 206+50

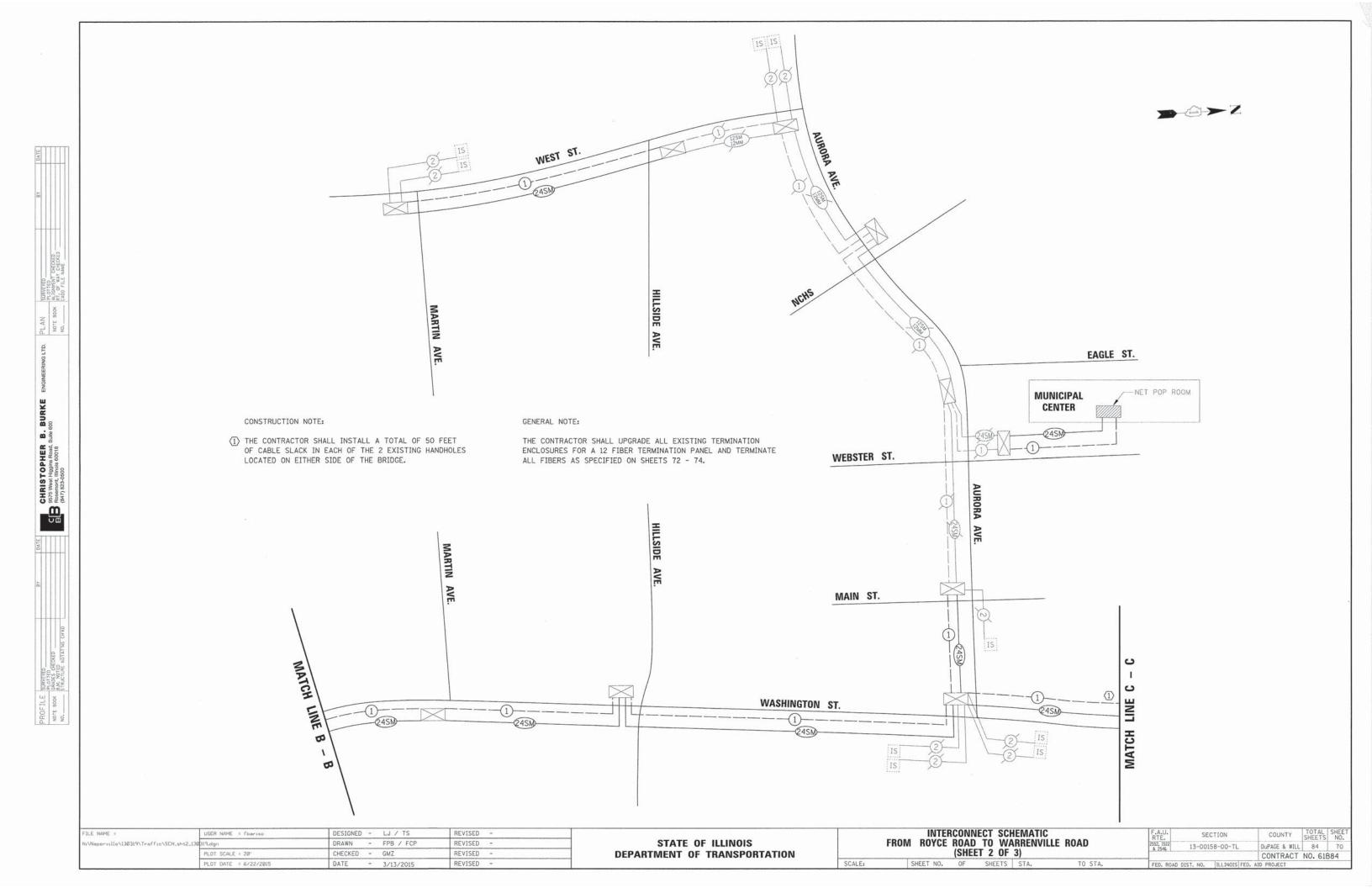
> 0 25 50 100 SCALE: 1" = 50'

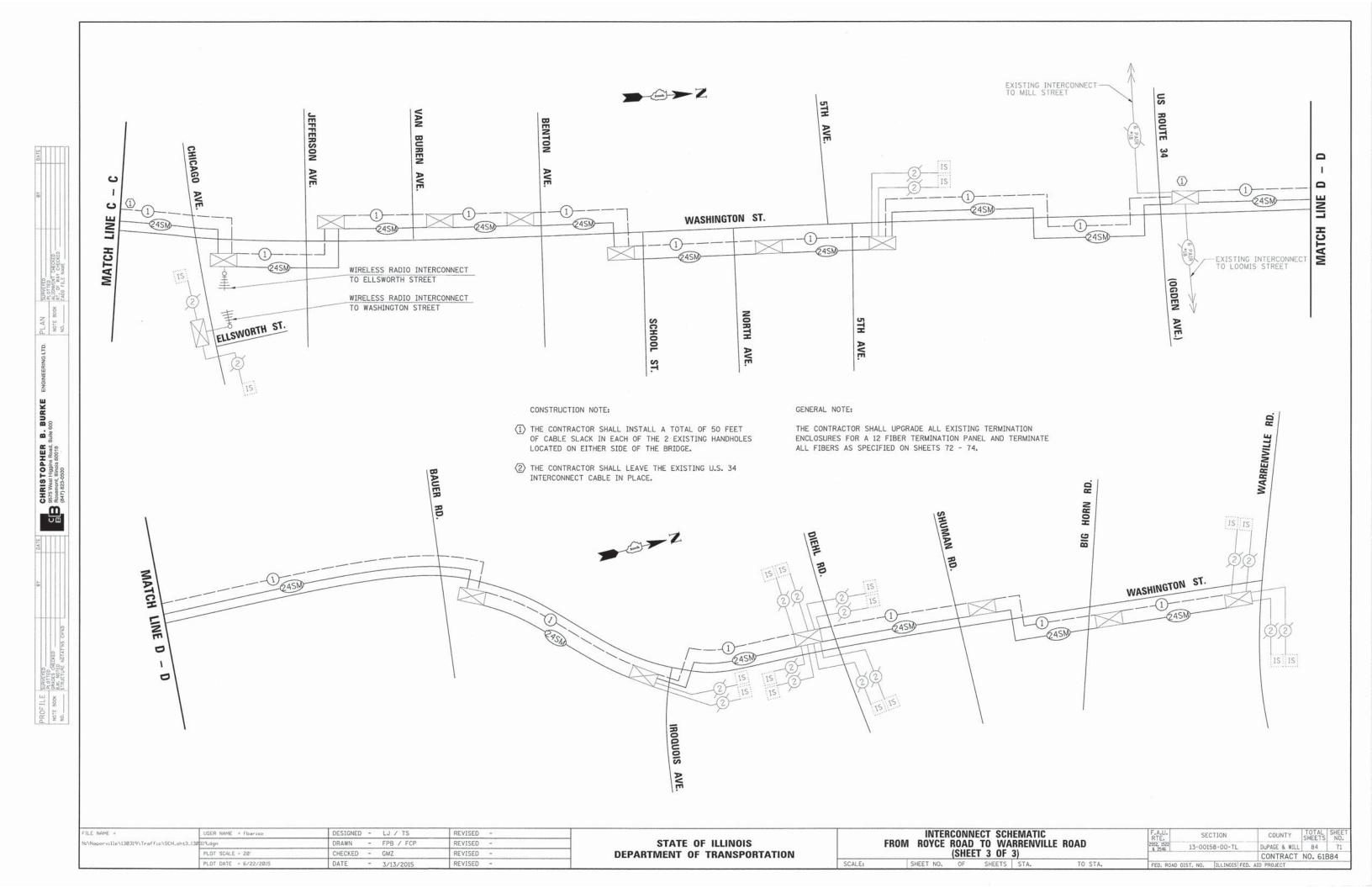
FILE NAME = N:\Naperville\138319\Traffic\INT-17_Auror-	USER NAME = Fbariso to Washington.dgn	DESIGNED - LJ / TS DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS		INTERCONNECT PLAN (SHEET 1 OF 2) AURORA AVENUE	F.A.U. RTE. SECTION	COUNTY TOTAL SHEET NO.
	PLOT SCALE = 50'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION		FROM WEST STREET TO WASHINGTON STREET	13-00158-00-TL	CONTRACT NO 61B84
	PLOT DATE = 6/22/2015	DATE - 3/13/2015	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED	D. AID PROJECT





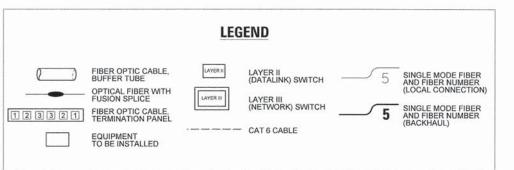


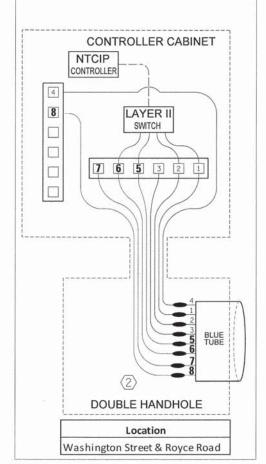


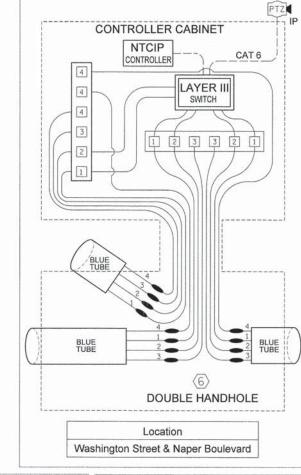


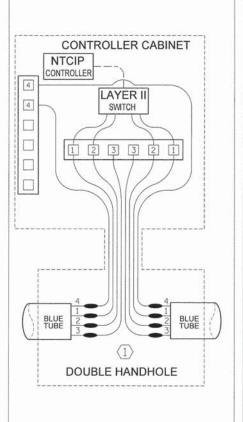
CONSTRUCTION NOTES

- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
- 2 SPLICE FIBERS 1 8 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 9 24 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 3 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 5 -24 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- SPLICE FIBERS 1 4, 13 16 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 5 -12, 17 24 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- $\stackrel{\textstyle <}{\bigcirc}$ SPLICE FIBERS 1 4, 9 12 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 5 -8, 13 24 IN IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 6 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE AND SPLICE THROUGH FIBERS 5 24 OF THE MAINLINE CABLE (TO ROYCE ROAD).
- SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 5 8 (FROM THE SOUTH) AND FIBERS 13 16 (FROM THE NORTH) OF THE MAINLINE CABLE (ON WASHINGTON STREET) TO THE MAINLINE CABLE FROM THE WEST (ON AURORA AVENUE); AND CONNECTORIZE ALL REMAINING FIBERS IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 8 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 9 12 TO THE MAINLINE CABLE; AND CONNECTORIZE FIBERS 5 8 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 9 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 9 12 TO THE MAINLINE CABLE; AND CONNECTORIZE FIBERS 5 8, 13 24 IN THE (DOUBLE HANDHOLE) SPLICE TRAY.
- SPLICE FIBERS 1 4 FROM THE (EAST/WEST) MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 5 8, 13 16 (FROM THE EAST) AND FIBERS 9 12 (FROM THE WEST) OF THE MAINLINE CABLE (ON AURORA AVENUE) TO THE MAINLINE CABLE FROM THE NORTH (ON WEBSTER STREET); AND CONNECTORIZE ALL REMAINING FIBERS IN THE (DOUBLE HANDHOLE) SPICE TRAY.



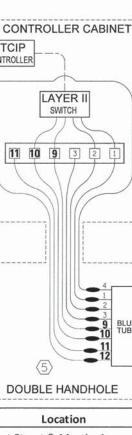


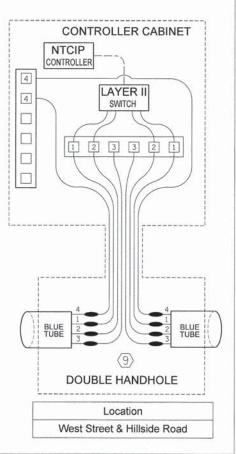


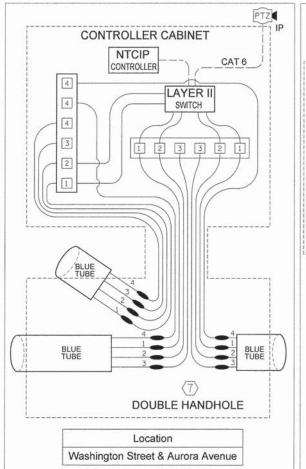


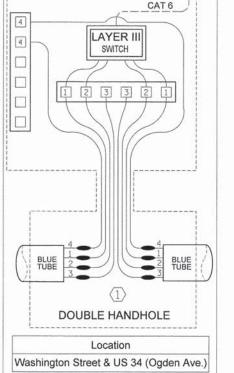


Washington Street & Shuman Boulevard Washington Street & Big Horn Road Aurora Avenue & Main Street

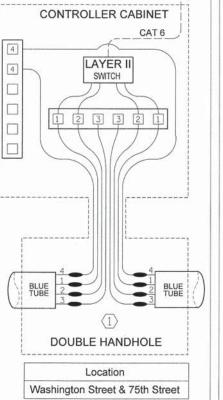








CONTROLLER CABINET

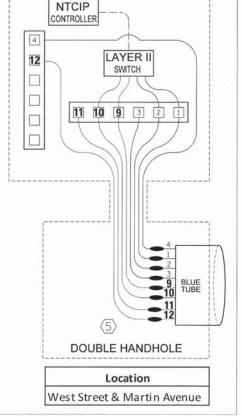


PLOT SCALE = 1'

PLOT DATE = 6/22/2019

E S

FILE NAME



DESIGNED - LJ / TS

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DRAWN - FPB / FCP

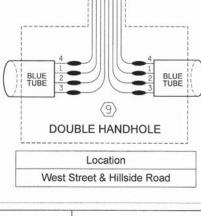
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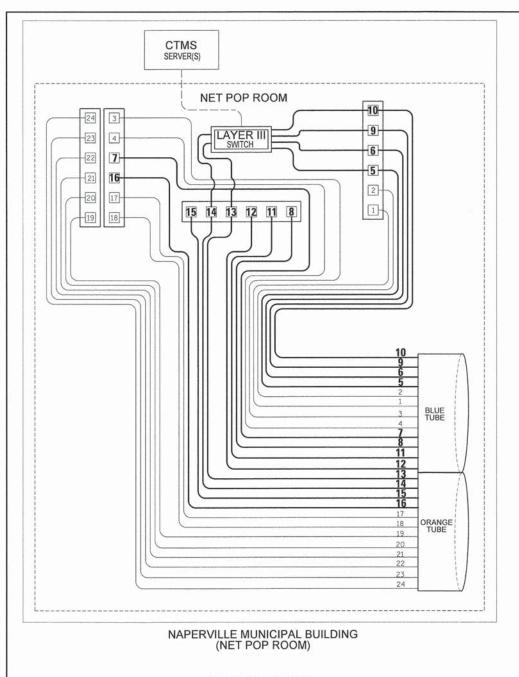
REVISED







FIBER TERMINATION /FIBER SPLICING /CABINET DIAGRAM



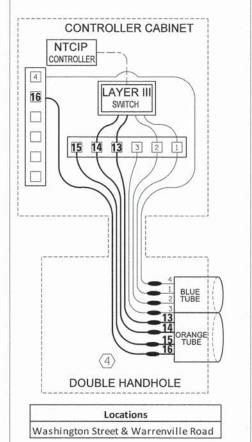
CONSTRUCTION NOTES

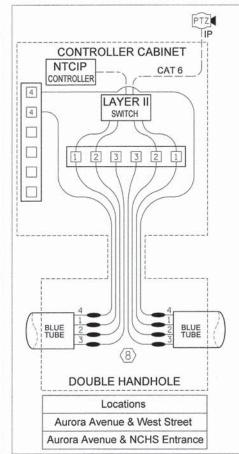
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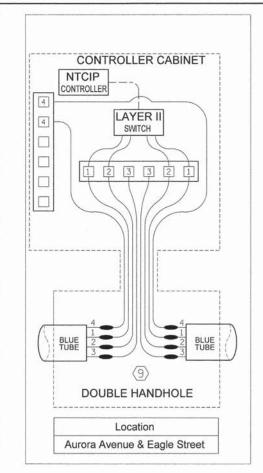
- $\fbox{1}$ SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE AND SPLICE THROUGH FIBERS 5 24 OF THE MAINLINE CABLE.
- SPLICE FIBERS 1 8 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 9 24 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 3 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 5 -24 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- SPLICE FIBERS 1 4, 13 16 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 5 12, 17 24 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- $\stackrel{\textstyle \frown}{5}$ SPLICE FIBERS 1 4, 9 12 FROM THE MAINLINE CABLE TO THE DROP CABLE AND CONNECTORIZE FIBERS 5 -8, 13 24 IN IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 6 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE AND SPLICE THROUGH FIBERS 5 24 OF THE MAINLINE CABLE (TO ROYCE ROAD).
- SPLICE FIBERS 1-4 FROM THE MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 5-8 (FROM THE SOUTH) AND FIBERS 13-16 (FROM THE NORTH) OF THE MAINLINE CABLE (ON WASHINGTON STREET) TO THE MAINLINE CABLE FROM THE WEST (ON AURORA AVENUE); AND CONNECTORIZE ALL REMAINING FIBERS IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- 8 SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 9 12 TO THE MAINLINE CABLE; AND CONNECTORIZE FIBERS 5 8 IN THE (DOUBLE HANDHOLE) SPICE TRAY.
- SPLICE FIBERS 1 4 FROM THE MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 9 12 TO THE MAINLINE CABLE; AND CONNECTORIZE FIBERS 5 8, 13 24 IN THE (DOUBLE HANDHOLE) SPLICE TRAY.

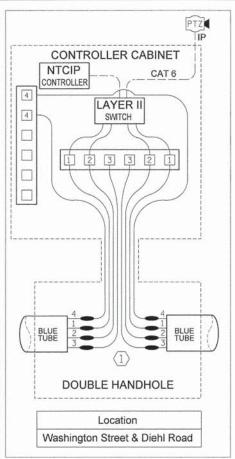
PLOT DATE = 6/22/2015

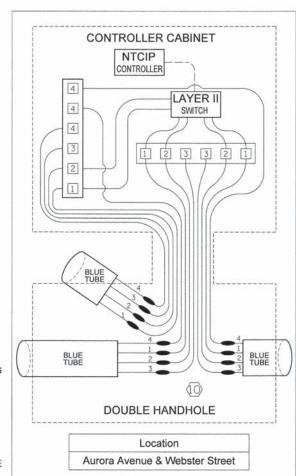
SPLICE FIBERS 1 - 4 FROM THE (EAST/WEST) MAINLINE CABLE TO THE DROP CABLE, SPLICE THROUGH FIBERS 5 - 8, 13 - 16 (FROM THE EAST) AND FIBERS 9 - 12 (FROM THE WEST) OF THE MAINLINE CABLE (ON AURORA AVENUE) TO THE MAINLINE CABLE FROM THE NORTH (ON WEBSTER STREET); AND CONNECTORIZE ALL REMAINING FIBERS IN THE (DOUBLE HANDHOLE) SPICE TRAY.

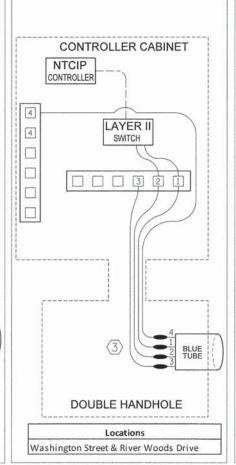


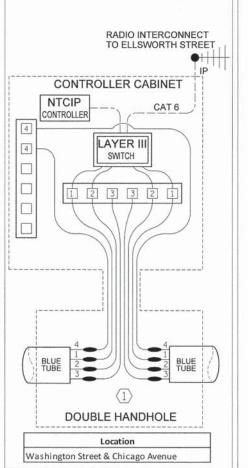


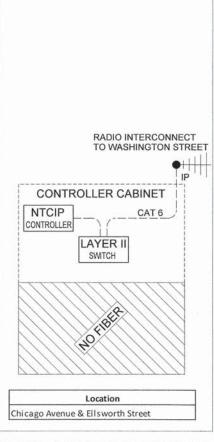












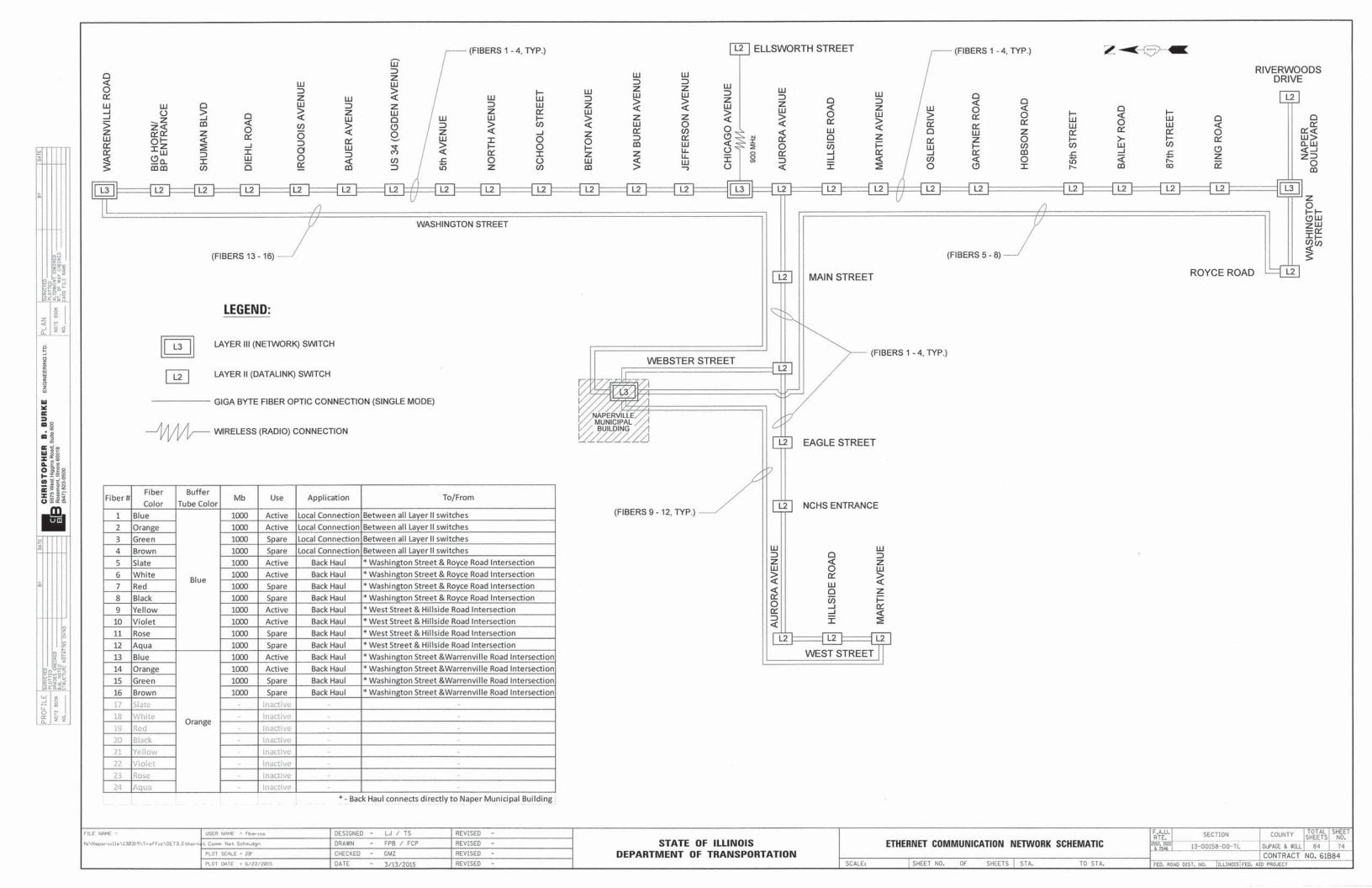
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER TERMINATION /FIBER SPLICING /CABINET DIAGRAM

ALU. SECTION COUNTY TOTAL SHEETS NO. 2, 1522 13-00158-00-TL DUPAGE & WILL 84 73

CONTRACT NO. 61884



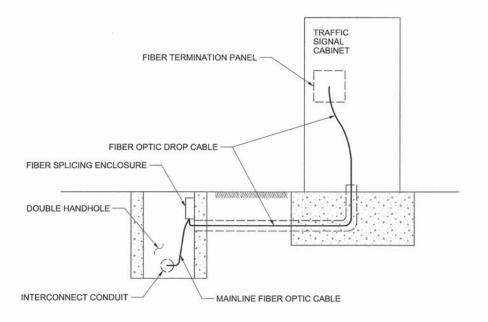
-PAN/TILT/ZOOM (PTZ) (DOME CAMERA)

REMOTE CONTROL VIDEO SYSTEM (PTZ) CAMERA

(NOT TO SCALE)

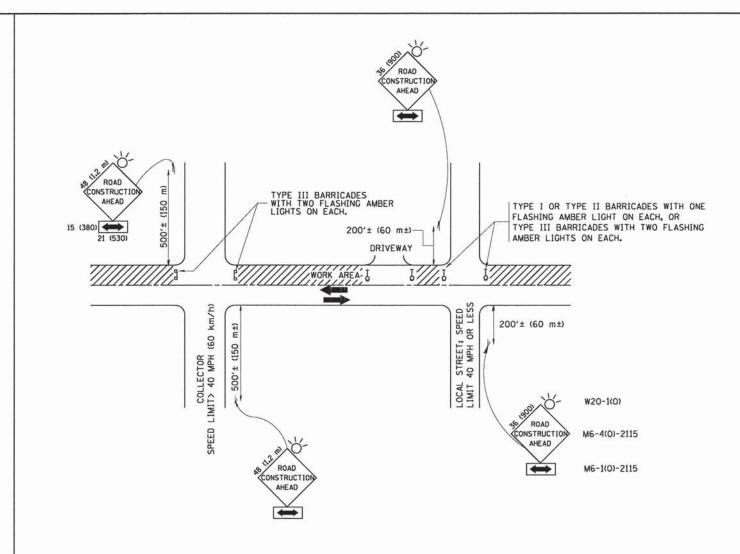
NOTES FOR PTZ MOUNTING:

- MOUNT PTZ CAMERA AS HIGH AS POSSIBLE.
- AIM PTZ CAMERA THE CENTER OF INTERSECTION.



FIBER OPTIC DROP CABLE

COUNTY TOTAL SHEET NO. SECTION PTZ CAMERA MOUNTING DETAIL AND STATE OF ILLINOIS DuPAGE & WILL 84 75 13-00158-00-TL FIBER OPTIC DROP CABLE DEPARTMENT OF TRANSPORTATION CONTRACT NO. 61B84 SHEET NO. __ OF ___ SHEETS | STA. SCALE: TO STA.



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- I. 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:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG 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:
- o) 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. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = USER NAME = goglionobt DESIGNED - LHA REVISED - J. OBERLE 10-18-95

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DRAWN - REVISED - A. HOUSEH 03-06-96

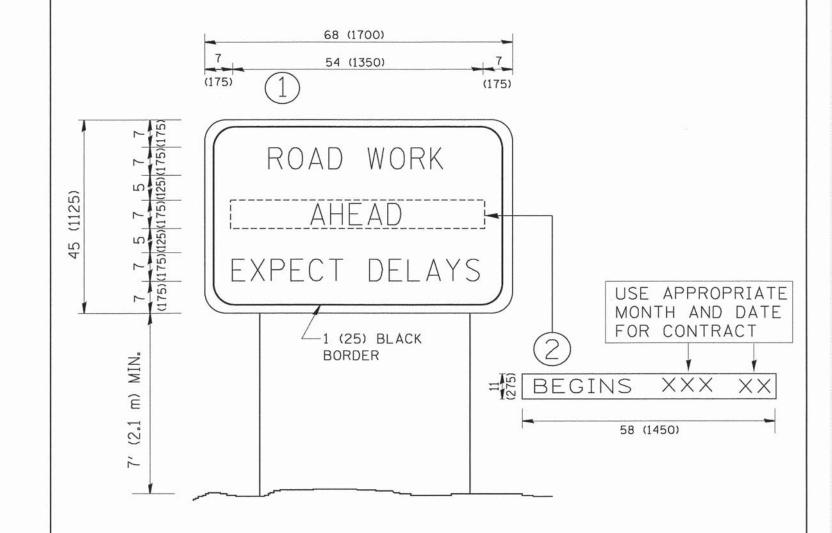
PLOT SCALE = 50.000 '/ IN. CHECKED - REVISED - A. HOUSEH 10-15-96

PLOT DATE = 1/4/2008 DATE - 06-89 REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR STATE SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED



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 () 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 = gaglianabt	DESIGNED -	REVISED - R. MIRS 09-15-97		Vest authorise and	ARTERIAL ROAD		F.A.U.	SECTION	COUNTY TOTA	AL SHEET
W:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS					13-00158-00-TL	DuPAGE & WILL 84	4 77
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN		V	0.2500 1	TC-22	CONTRACT NO.	61B84
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	S	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA	. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	NID PROJECT	

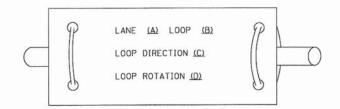
TRAFFIC SIGNAL LEGEND

<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	\boxtimes	\blacksquare	EMERGENCY VEHICLE LIGHT DETECTOR	R _≪	≪	-	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			<u>—</u> 1)—
RAILROAD CONTROL CABINET			₽ <€	CONFIRMATION BEACON	Ro-Q	0-0	H	NO. 14 17 G, GREEDS NOTED STREAMISE		.e	
COMMUNICATIONS CABINET	CCR	ECC	CC	HANDHOLE	R 🖂			COAXIAL CABLE		_ ©	—©—
MASTER CONTROLLER		EMC	MC	TARBUTOLE.				VENDOR CABLE FOR CAMERA		ď	<u> </u>
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	R R	H	H	THE PROPERTY OF THE SECOND PROPERTY CO. THE SECOND PROPERTY OF THE S		_	
ININTERRUPTABLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R O		0	NO. 18 3 PAIR TWISTED, SHIELDED		<u> </u>	<u>—6</u> —
SERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT	- <u></u> -	-□- ^p	- ■ P	JUNCTION BOX UNDERGROUND CONDUIT.	9	<u> </u>	0	FIBER OPTIC CABLE NO. 62.5/125, MM12F		—(12F)—	
ELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT	R	P	PT	GALVANIZED STEEL (UC) TEMPORARY SPAN WIRE, TETHER WIRE,	P			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		- <u>2</u> 45	—(24F)—
TEEL MAST ARM ASSEMBLY AND POLE	R _O	0	•	AND CABLE	-11			NO. GELOTIES, MINIEL SMILE			
LUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		—36F	—36F—
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH LUMINAIRE	^R O-\ □	0-×	• × —	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	GROUND ROD AT (C) CONTROLLER.			
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH PTZ CAMERA	R PTZD	Q	PIZ	SYSTEM ITEM INTERSECTION ITEM		s	S IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	c _d →
IGNAL POST	12 12 12 1	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND	RCF		
EMPORARY WOOD POLE (CLASS 5 OR	^R ○	8	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
ETTER) 45 FOOT (13.7m) MINIMUM UY WIRE	>R	>	>-	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	A	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
IGNAL HEAD	R P	->	-	12 100011111 11111111111111111111111111				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
IGNAL HEAD CONSTRUCTION STAGES NUMBERS INDICATE THE CONSTRUCTION STAGE)	- >		→ ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		<u> </u>		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
IGNAL HEAD WITH BACKPLATE	+C ^R	+	+-			R	R	FOUNDATION TO BE REMOVED	0-X		
IGNAL HEAD OPTICALLY PROGRAMMED	R →D′′P′′	- ⊳ "p"	→" ""	SIGNAL FACE		Š	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
ASHER INSTALLATION DENOTES SOLAR POWER)	R O- D "F"	O-(>"F"	•►"F"			€ ?)	← Y ← G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
EDESTRIAN SIGNAL HEAD	-D	-0	4			R	R	SAMPLING (SYSTEM) DETECTOR			S
EDESTRIAN PUSHBUTTON DETECTOR	R	@	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G	QUEUE DETECTOR		[0]	٥
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS O O O O O O O O O O O O O	"RB" INDICATES REFLECTIVE BACKPLATE		€ 9	∢γ ∢G	WO TO DESCRIPTION OF THE PROPERTY OF THE PROPE			
LUMINATED SIGN NO LEFT TURN"	R	9	9			"P"	"P"	PREFORMED QUEUE DETECTOR		POI	PO
	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(DW) W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
LUMINATED SIGN IO RIGHT TURN"	8	8	®	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
ETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED						⊢ →	
REFORMED DETECTOR LOOP		90 p !	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			*	RAILROAD	SYMRO	OLS	
ICROWAVE VEHICLE SENSOR	R M)	(₩)⊐ ↑†	₩	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		© C	₽ C	MAILIIOAL	CIMB		PRODUCES
DEO DETECTION CAMERA	R V	[V]	(American Control Contr	11 . R	1 10000111111 2		RAILROAD CONTROL CABINET		EXISTING	PROPOSED
DEO DETECTION ZONE				RADIO INTERCONNECT	₩°0	##+0	 •		· e		
	p	шш	!!!!! !	RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	2	X OX X X	Xex X X
AN, TILT, ZOOM CAMERA	PZ	門之	PIZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		-5-	-5-	FLASHING SIGNAL		X0 X	XOX
IRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		_w_	-6-	CROSSING GATE		X0X >	XOX-
IRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		75	*
NAME = USER NAME = footemj www.work\pwidot\footemj\d0188315\ts05.dgn		SIGNED - DAG/BCK	REVISED REVISED	- DAG 1-1-14	OF ILLINOIS	2		DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEETS
PLOT SCALE = 50.0000 '/		ECKED - DAD	REVISED	DEPARTMENT				STANDARD TRAFFIC SIGNAL DESIGN DETAILS	2552, 1522 & 2546	13-00158-00-TL TS-05	CONTRACT NO. 6

LOOP DETECTOR NOTES

- 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

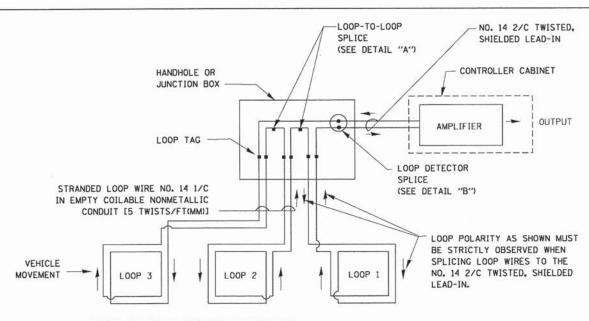


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

USER NAME = footem

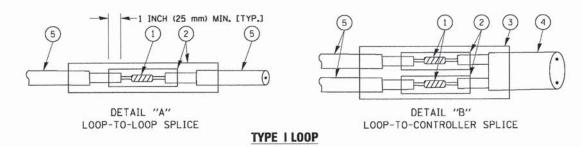
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

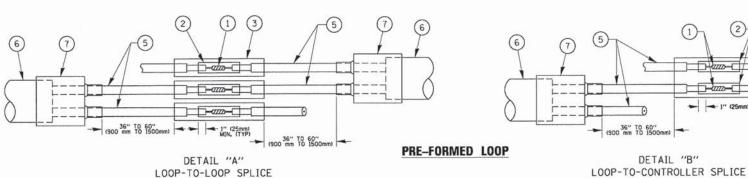
DESIGNED - DAD



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

SH

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

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

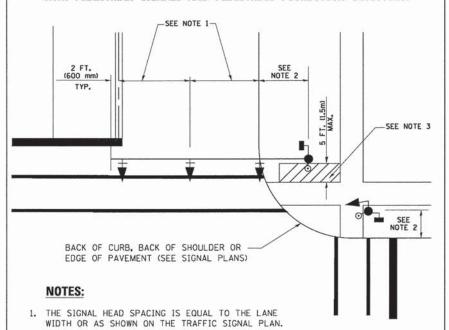
c:\pw_work\pwidot\footemj\d0108315\ts05.	dgn	DRAWN	2	BCK	REVISED -	STATE OF I
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	PLOT DATE = 1/13/2014	DATE	-	10-28-09	REVISED -	

REVISED - DAG 1-1-14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	79
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS05	CONTRACT	NO. 6	61B84
SHEET NO. 2 OF 7 SHEETS STA. TO 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.

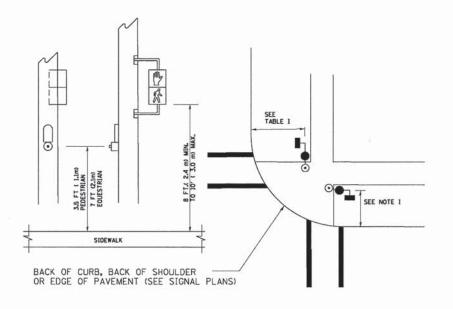


- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK 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."

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 PAYEMENT.

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. 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 PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 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 MUTCO AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS S.O. FT. (J.5 m) MAX. 1.5 FT. (J.45 m) MAX. LEGEND DOWNWARD SLOPE PEDESTRIAN PUSHBUTTON PISHBUTTON PUSHBUTTON LEGEND DOWNWARD SLOPE PEDESTRIAN PUSHBUTTON PISHBUTTON PISHBUTTON

- 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.

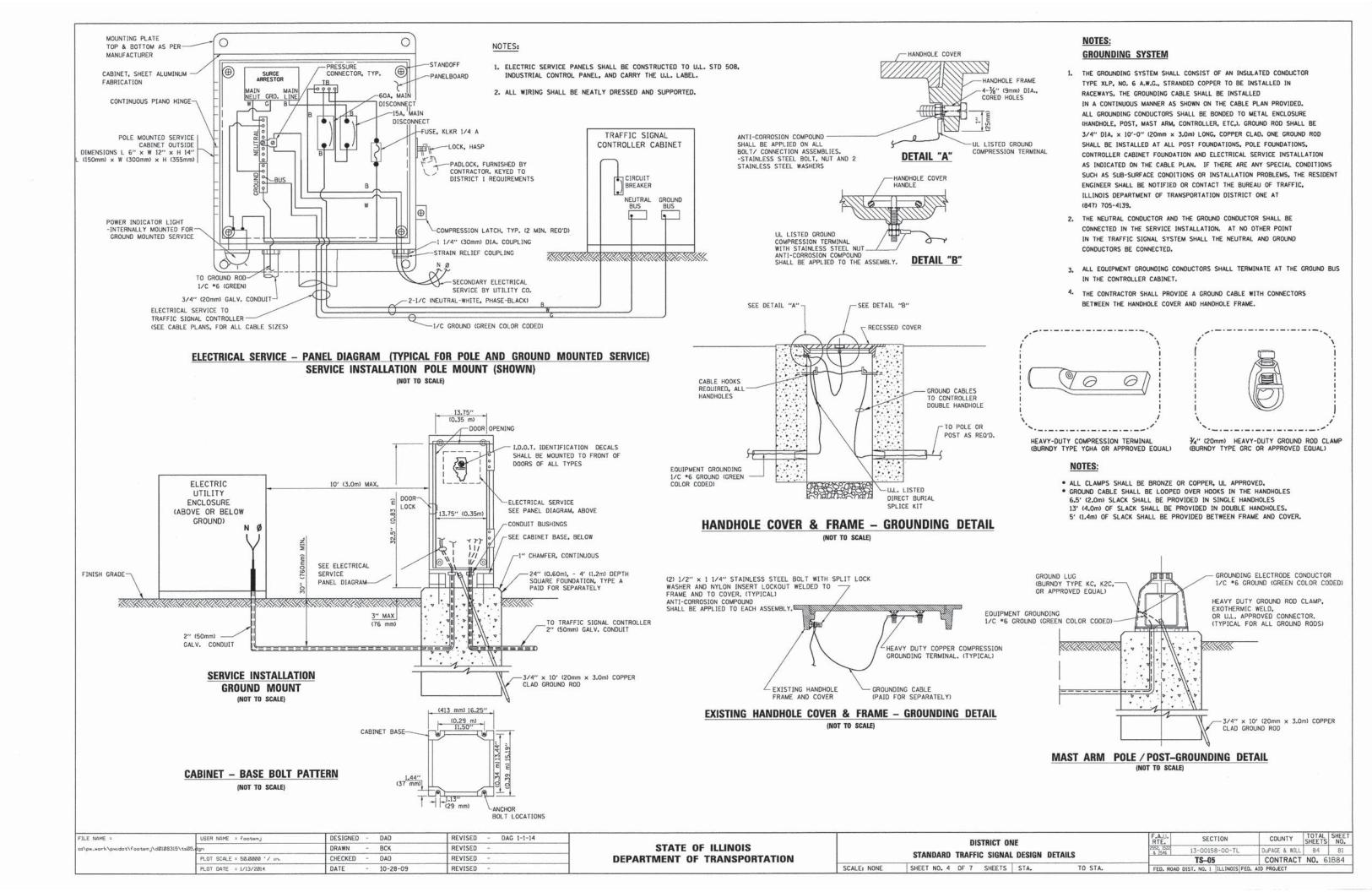
TRAFFIC SIGNAL EQUIPMENT OFFSET

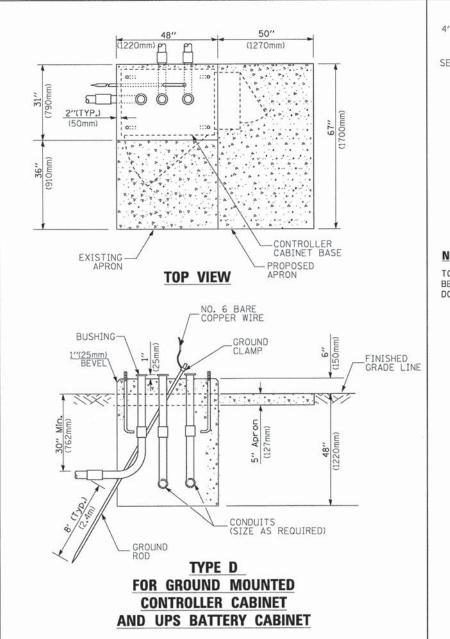
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

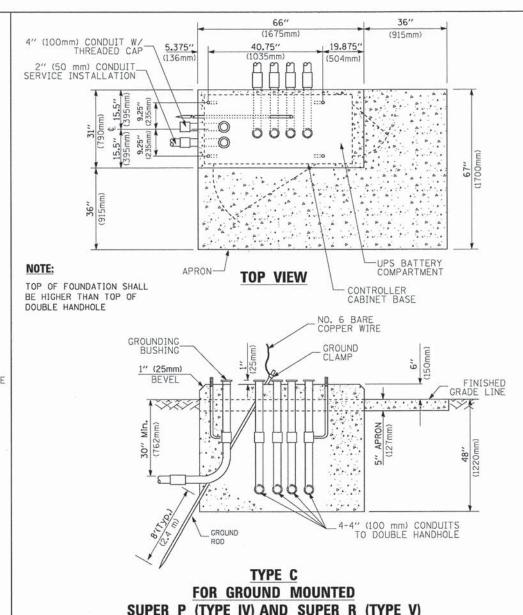
NOTES:

- 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.

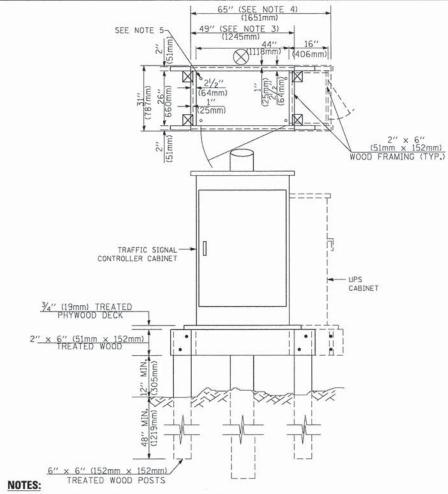
FILE NAME DESIGNED - DAD REVISED - DAG 1-1-14 USER NAME = footemj SECTION COUNTY DISTRICT ONE ct\pw_work\pwidot\footem (\d0108315\ts05 DRAWN - BCK REVISED STATE OF ILLINOIS STANDARD TRAFFIC SIGNAL DESIGN DETAILS CHECKED DAD REVISED DEPARTMENT OF TRANSPORTATION TS-05 CONTRACT NO. 61B84 SHEET NO. 3 OF 7 SHEETS STA. PLOT DATE = 1/13/2014 DATE 10-28-09 REVISED SCALE: NONE FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT







SUPER P (TYPE IV) AND SUPER R (TYPE V) **CONTROLLER CABINETS**



- 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
- 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

VERTICAL 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

CABLE SLACK

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 - SOUARE	4'-0" (1.2m)

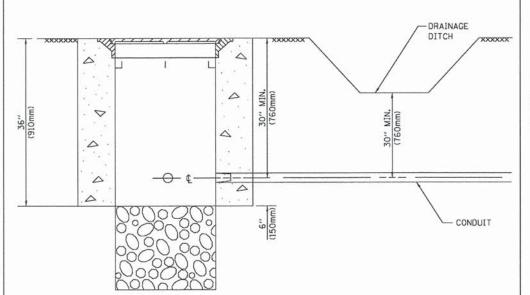
DEPTH OF FOUNDATION

Most Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of 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)
Greater 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)

- 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 (Qu) > 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 most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

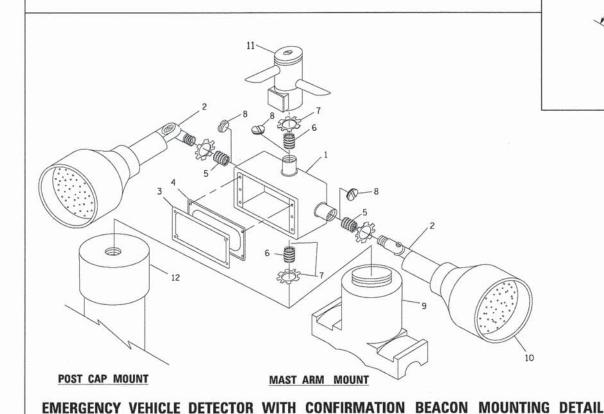
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14			DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEET NO.
c:\pw_work\pw:dot\footemj\d0108315\ts05.dgn		DRAWN - BCK REVISED -		STATE OF ILLINOIS				2552, 1522 8 2546 13-00158-00-TL	DuPAGE & WILL 84 82
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRACT NO. 61B84
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	. AID PROJECT

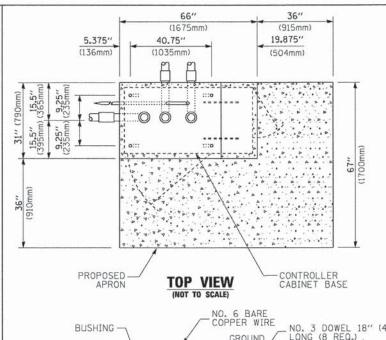


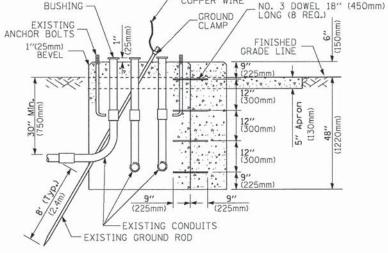
NOTES:

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 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)







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

(NOT TO SCALE)

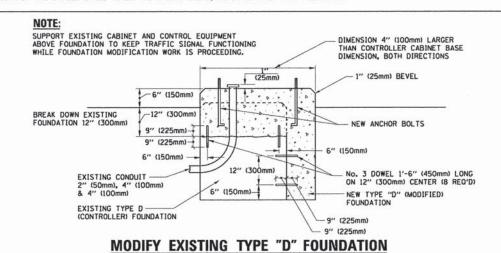
R0.50" (12mm) R0.50" (12mm) R0.50" (12mm) R0.50" (12mm) R0.50" (12mm) R11.81" (300mm) R2.16" (55mm) R3.18" (300mm) (300mm) (227mm) (22

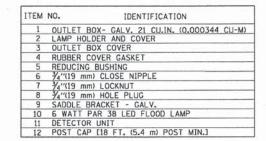
Α	В	С	HEIGHT	WEIGHT		
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)		
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)		
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)		
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126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

SHROUD

NOTES:

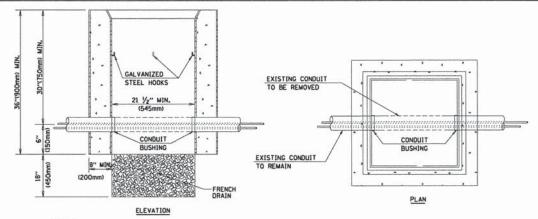
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM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





NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 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.



NOTE

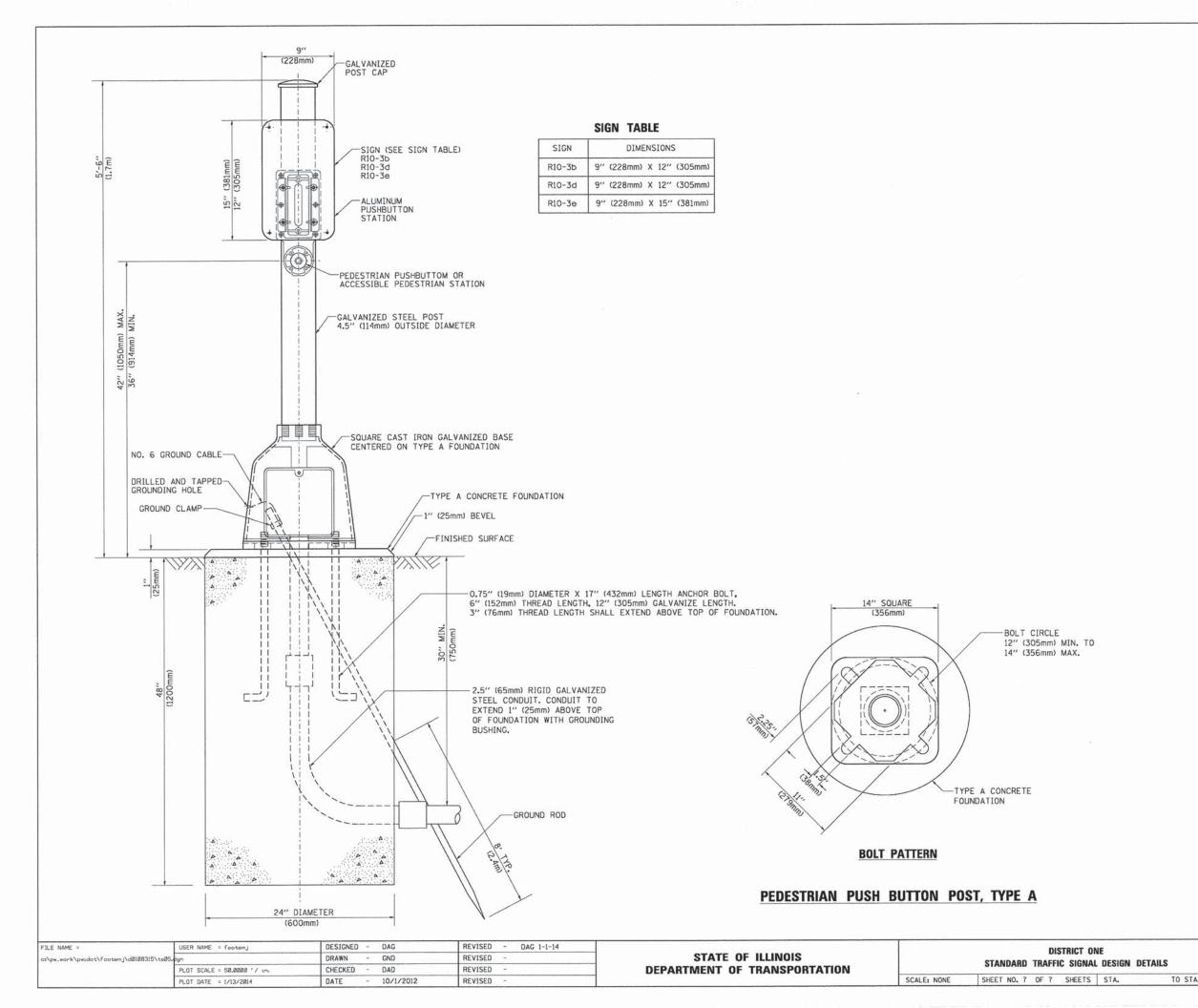
SCALE: NONE

- 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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DIS	STRICT OF	4E		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
				ETAILC	2552, 1522 & 2546	13-00158-00-TL	DuPAGE & WILL	84	83	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS						TS-05	CONTRACT NO. 6		1B84	
	SHEET NO. 6 OF 7	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT			



COUNTY TOTAL SHEETS NO.

DuPage & WILL 84 84

CONTRACT NO. 61B84

SECTION

13-00158-00-TL

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

TS-05